

# OVEGA-Plus

## TLO020-61 / TLO025-61 / TLO030-61



### DESCRIPTION

OVEGA(EN-TLO series, Plus version) is a upgraded version of OVEGA, except for it's very stylish and attractive design, Plus also combines spotlights, floodlight and wallwashing in a single luminaire, so it will fit smoothly into any indoor environments where requires different lighting solutions, but want to get a unified impression. The head can be adjusted precisely 360°+ horizontal(rotation) and 90°vertical without dead angle. The light, as a result, is emitted exactly where you need it. The integrated driver gives clean feeling and the ceiling will not be cluttered with drivers aimed in different directions.

### FEATURES

- Stylish and attractive design thanks to the beautiful combination of round and square.
- Excellent modular combination concept: integrated driver + different fixture bases, DIY to get different light solutions and easy for maintenance.
- Combines spotlights, floodlight and wallwashing in a single luminaire.
- Patented joints can hold the track head at any positions without malfunctions.
- 360°+ rotation without dead angle and 90° vertical aiming.
- Use OVEGA family to get a unified impression in one environment.

### ELECTRICAL

|               |                                 |
|---------------|---------------------------------|
| Power:        | 20W / 25W / 30W                 |
| Voltage:      | 220-240V / 100-277V AC          |
| Frequency:    | 50/60Hz                         |
| Power factor: | >0.90                           |
| Dimming:      | On-off / 0/1-10V / DALI / TRIAC |

### OPTICAL

|                |                                                  |
|----------------|--------------------------------------------------|
| LED type:      | COB                                              |
| Lumen output:  | 1531lm-2474lm                                    |
| Beam optic:    | 18° / 25° / 40° / 50°, 20°x30°, 25°x40°, 25°x50° |
| Color quality: | CRI 90+/95+, SDCM≤3                              |
| Light color:   | Static white: 2700K/3000K/3500K/4000K            |

### LUMINAIRE

|                        |                              |
|------------------------|------------------------------|
| Installation methods:  | Track-mounted / Wall-Mounted |
| Housing color:         | Black / White / Silver       |
| Operating temperature: | -20°C~40°C                   |
| Lifespan:              | >50000h@80%(L80)             |
| Warranty:              | 5 years limited warranty     |

### DETAILS





ORDERING INFORMATION

| TLO                                |                                  |                                   |                                   |                                             |                                |                                   |                                          |                                        |
|------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|---------------------------------------------|--------------------------------|-----------------------------------|------------------------------------------|----------------------------------------|
| SERIES                             | POWER                            | INSTALLATION                      | HOUSING COLOR                     | TRACK TYPE                                  | CRI                            | CCT                               | OPTIC                                    | DIMMING                                |
| <input type="checkbox"/> TLO OVEGA | <input type="checkbox"/> 020 20W | <input type="checkbox"/> 61 Track | <input type="checkbox"/> W White  | <input type="checkbox"/> J 2-pin Juno       | <input type="checkbox"/> 9 90+ | <input type="checkbox"/> 27 2700K | <input type="checkbox"/> 018 18°         | <input type="checkbox"/> V 0/1-10V     |
|                                    | <input type="checkbox"/> 025 25W | <input type="checkbox"/> 64 Wall  | <input type="checkbox"/> B Black  | <input type="checkbox"/> L 2-pin Lightolier | <input type="checkbox"/> H 95+ | <input type="checkbox"/> 30 3000K | <input type="checkbox"/> 025 25°         | <input type="checkbox"/> T Triac       |
|                                    | <input type="checkbox"/> 030 30W |                                   | <input type="checkbox"/> S Silver | <input type="checkbox"/> H 3-pin Halo       |                                | <input type="checkbox"/> 35 3500K | <input type="checkbox"/> 040 40°         | <input type="checkbox"/> X 0-10V/Triac |
|                                    |                                  |                                   |                                   | <input type="checkbox"/> G 4-pin Global     |                                | <input type="checkbox"/> 40 4000K | <input type="checkbox"/> 050 50°         | <input type="checkbox"/> D DALI        |
|                                    |                                  |                                   |                                   |                                             |                                |                                   | <input type="checkbox"/> 2X3 20°×30°     | <input type="checkbox"/> N Non-dimming |
|                                    |                                  |                                   |                                   |                                             |                                |                                   | <input type="checkbox"/> 2X4 25°×40°     |                                        |
|                                    |                                  |                                   |                                   |                                             |                                |                                   | <input type="checkbox"/> 2X5 25°×50°     |                                        |
|                                    |                                  |                                   |                                   |                                             |                                |                                   | <input type="checkbox"/> WW Wall washing |                                        |

ACCESSORIES (TO BE ORDERED SEPARATELY)  
FOR INSTALLATION CONSULT THE INSTRUCTION SHEET

OPTICAL ACCESSORY

☐ Honeycomb Louve+Wall Washer  
TLO-AC12

☐ Wall Washer  
TLO-AC13



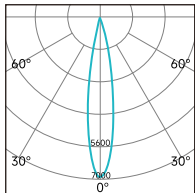
PHOTOMETRIC DATA (NON-DIMMING)

| POWER | CCT   | CRI | BEAM OPTIC   | LUMENS (lm) | EFFICACY (lm/W) | MAX CANDELA (cd) |
|-------|-------|-----|--------------|-------------|-----------------|------------------|
| 20W   | 3000K | 90  | 18°          | 1809        | 97              | 6987             |
|       |       |     | 25°          | 1610        | 86              | 3561             |
|       |       |     | 40°          | 1693        | 91              | 2681             |
|       |       |     | 50°          | 1531        | 82              | 1672             |
|       |       |     | 20°X30°      | 1715        | 92              | 5173             |
|       |       |     | 25°X40°      | 1545        | 83              | 3086             |
|       |       |     | 25°X50°      | 1537        | 82              | 2603             |
| 25W   | 3000K | 90  | 18°          | 2136        | 96              | 8248             |
|       |       |     | 25°          | 1875        | 84              | 4261             |
|       |       |     | 40°          | 1949        | 87              | 3083             |
|       |       |     | 50°          | 1783        | 80              | 1935             |
|       |       |     | 20°X30°      | 2055        | 92              | 6396             |
|       |       |     | 25°X40°      | 1811        | 81              | 3542             |
|       |       |     | 25°X50°      | 1782        | 80              | 3030             |
| 30W   | 3000K | 90  | Wall washing | 1837        | 80              | 2145             |
|       |       |     | 18°          | 2474        | 93              | 9559             |
|       |       |     | 25°          | 2194        | 82              | 4971             |
|       |       |     | 40°          | 2252        | 84              | 3573             |
|       |       |     | 50°          | 2065        | 78              | 2246             |
|       |       |     | 20°X30°      | 2348        | 88              | 6972             |
|       |       |     | 25°X40°      | 2124        | 80              | 4140             |
|       |       |     | 25°X50°      | 2043        | 77              | 3491             |

LIGHT DISTRIBUTION

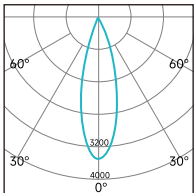
3000K 20W

18°



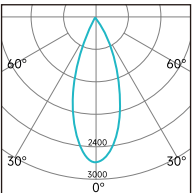
| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 38.57  | 1    | 6994  |
| 77.15  | 2    | 1749  |
| 115.72 | 3    | 777.2 |
| 154.3  | 4    | 437.1 |
| 192.87 | 5    | 279.8 |

25°



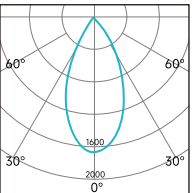
| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 53.28  | 1    | 3564  |
| 106.56 | 2    | 891.1 |
| 159.84 | 3    | 396   |
| 213.12 | 4    | 222.8 |
| 266.4  | 5    | 142.6 |

40°



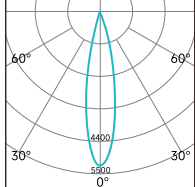
| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 71.72  | 1    | 2679  |
| 143.44 | 2    | 669.8 |
| 215.17 | 3    | 297.7 |
| 286.89 | 4    | 167.5 |
| 358.61 | 5    | 107.2 |

50°



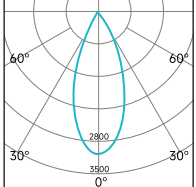
| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 92.21  | 1    | 1673  |
| 184.41 | 2    | 418.2 |
| 276.62 | 3    | 185.9 |
| 368.82 | 4    | 104.5 |
| 461.03 | 5    | 66.9  |

20°X30°



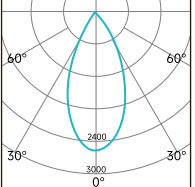
| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 41.01  | 1    | 5159  |
| 82.02  | 2    | 1290  |
| 123.03 | 3    | 573.2 |
| 164.05 | 4    | 322.5 |
| 205.06 | 5    | 206.4 |

25°X40°



| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 41.01  | 1    | 3086  |
| 82.02  | 2    | 771.4 |
| 123.03 | 3    | 342.8 |
| 164.05 | 4    | 192.8 |
| 205.06 | 5    | 123.4 |

25°X50°

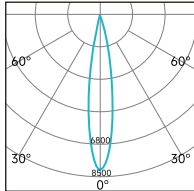
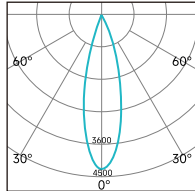
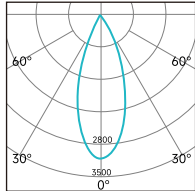
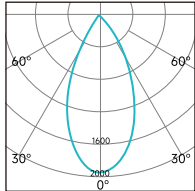
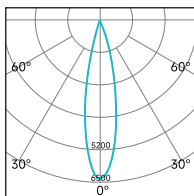
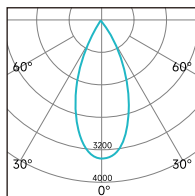
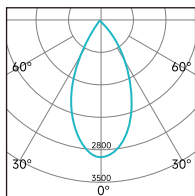
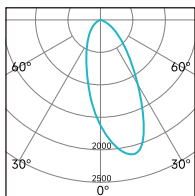


| D(cm)  | h(m) | E(lx) |
|--------|------|-------|
| 48.71  | 1    | 2605  |
| 97.41  | 2    | 651.2 |
| 146.12 | 3    | 289.4 |
| 194.83 | 4    | 162.8 |
| 243.54 | 5    | 104.2 |

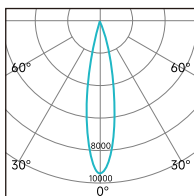


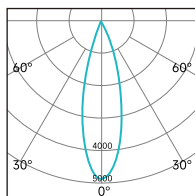
LIGHT DISTRIBUTION

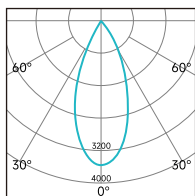
3000K 25W

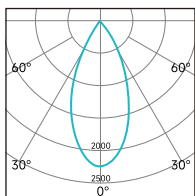
| 18°                                                                                                                                                                                                                                                                                                                                                                                            | 25°     | 40°     | 50°          |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|--------------|-------|---|------|-------|---|------|--------|---|-------|--------|---|-------|--------|---|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|-------|---|------|--------|---|------|--------|---|-------|--------|---|-------|--------|---|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|-------|---|------|--------|---|-------|--------|---|-------|--------|---|-------|--------|---|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|-------|---|------|--------|---|-------|--------|---|-------|--------|---|-------|--------|---|-------|
|  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>38.41</td><td>1</td><td>8180</td></tr><tr><td>76.82</td><td>2</td><td>2045</td></tr><tr><td>115.23</td><td>3</td><td>908.9</td></tr><tr><td>153.64</td><td>4</td><td>511.3</td></tr><tr><td>192.05</td><td>5</td><td>327.2</td></tr></table> | D(cm)   | h(m)    | E(lx)        | 38.41 | 1 | 8180 | 76.82 | 2 | 2045 | 115.23 | 3 | 908.9 | 153.64 | 4 | 511.3 | 192.05 | 5 | 327.2 |  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>52.65</td><td>1</td><td>4225</td></tr><tr><td>105.29</td><td>2</td><td>1056</td></tr><tr><td>157.94</td><td>3</td><td>469.5</td></tr><tr><td>210.58</td><td>4</td><td>264.1</td></tr><tr><td>263.23</td><td>5</td><td>169</td></tr></table> | D(cm) | h(m) | E(lx) | 52.65 | 1 | 4225 | 105.29 | 2 | 1056 | 157.94 | 3 | 469.5 | 210.58 | 4 | 264.1 | 263.23 | 5 | 169   |  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>71.82</td><td>1</td><td>3078</td></tr><tr><td>143.64</td><td>2</td><td>769.5</td></tr><tr><td>215.46</td><td>3</td><td>342</td></tr><tr><td>287.28</td><td>4</td><td>192.4</td></tr><tr><td>359.1</td><td>5</td><td>123.1</td></tr></table> | D(cm) | h(m) | E(lx) | 71.82 | 1 | 3078 | 143.64 | 2 | 769.5 | 215.46 | 3 | 342   | 287.28 | 4 | 192.4 | 359.1  | 5 | 123.1 |  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>92.08</td><td>1</td><td>1941</td></tr><tr><td>184.16</td><td>2</td><td>485.3</td></tr><tr><td>276.24</td><td>3</td><td>215.7</td></tr><tr><td>368.32</td><td>4</td><td>121.3</td></tr><tr><td>460.39</td><td>5</td><td>77.65</td></tr></table> | D(cm) | h(m) | E(lx) | 92.08 | 1 | 1941 | 184.16 | 2 | 485.3 | 276.24 | 3 | 215.7 | 368.32 | 4 | 121.3 | 460.39 | 5 | 77.65 |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 38.41                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 8180    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 76.82                                                                                                                                                                                                                                                                                                                                                                                          | 2       | 2045    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 115.23                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 908.9   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 153.64                                                                                                                                                                                                                                                                                                                                                                                         | 4       | 511.3   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 192.05                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 327.2   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 52.65                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 4225    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 105.29                                                                                                                                                                                                                                                                                                                                                                                         | 2       | 1056    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 157.94                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 469.5   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 210.58                                                                                                                                                                                                                                                                                                                                                                                         | 4       | 264.1   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 263.23                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 169     |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 71.82                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 3078    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 143.64                                                                                                                                                                                                                                                                                                                                                                                         | 2       | 769.5   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 215.46                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 342     |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 287.28                                                                                                                                                                                                                                                                                                                                                                                         | 4       | 192.4   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 359.1                                                                                                                                                                                                                                                                                                                                                                                          | 5       | 123.1   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 92.08                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 1941    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 184.16                                                                                                                                                                                                                                                                                                                                                                                         | 2       | 485.3   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 276.24                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 215.7   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 368.32                                                                                                                                                                                                                                                                                                                                                                                         | 4       | 121.3   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 460.39                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 77.65   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 20°X30°                                                                                                                                                                                                                                                                                                                                                                                        | 25°X40° | 25°X50° | WALL WASHING |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
|  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>38.57</td><td>1</td><td>6994</td></tr><tr><td>77.15</td><td>2</td><td>1749</td></tr><tr><td>115.72</td><td>3</td><td>777.2</td></tr><tr><td>154.3</td><td>4</td><td>437.1</td></tr><tr><td>192.87</td><td>5</td><td>279.8</td></tr></table>  | D(cm)   | h(m)    | E(lx)        | 38.57 | 1 | 6994 | 77.15 | 2 | 1749 | 115.72 | 3 | 777.2 | 154.3  | 4 | 437.1 | 192.87 | 5 | 279.8 |  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>38.57</td><td>1</td><td>6994</td></tr><tr><td>77.15</td><td>2</td><td>1749</td></tr><tr><td>115.72</td><td>3</td><td>777.2</td></tr><tr><td>154.3</td><td>4</td><td>437.1</td></tr><tr><td>192.87</td><td>5</td><td>279.8</td></tr></table> | D(cm) | h(m) | E(lx) | 38.57 | 1 | 6994 | 77.15  | 2 | 1749 | 115.72 | 3 | 777.2 | 154.3  | 4 | 437.1 | 192.87 | 5 | 279.8 |  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>38.57</td><td>1</td><td>6994</td></tr><tr><td>77.15</td><td>2</td><td>1749</td></tr><tr><td>115.72</td><td>3</td><td>777.2</td></tr><tr><td>154.3</td><td>4</td><td>437.1</td></tr><tr><td>192.87</td><td>5</td><td>279.8</td></tr></table> | D(cm) | h(m) | E(lx) | 38.57 | 1 | 6994 | 77.15  | 2 | 1749  | 115.72 | 3 | 777.2 | 154.3  | 4 | 437.1 | 192.87 | 5 | 279.8 |  <table><tr><th>D(cm)</th><th>h(m)</th><th>E(lx)</th></tr><tr><td>72.14</td><td>1</td><td>6994</td></tr><tr><td>77.15</td><td>2</td><td>1749</td></tr><tr><td>115.72</td><td>3</td><td>777.2</td></tr><tr><td>154.3</td><td>4</td><td>437.1</td></tr><tr><td>192.87</td><td>5</td><td>279.8</td></tr></table>    | D(cm) | h(m) | E(lx) | 72.14 | 1 | 6994 | 77.15  | 2 | 1749  | 115.72 | 3 | 777.2 | 154.3  | 4 | 437.1 | 192.87 | 5 | 279.8 |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 38.57                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 6994    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 77.15                                                                                                                                                                                                                                                                                                                                                                                          | 2       | 1749    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 115.72                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 777.2   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 154.3                                                                                                                                                                                                                                                                                                                                                                                          | 4       | 437.1   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 192.87                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 279.8   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 38.57                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 6994    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 77.15                                                                                                                                                                                                                                                                                                                                                                                          | 2       | 1749    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 115.72                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 777.2   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 154.3                                                                                                                                                                                                                                                                                                                                                                                          | 4       | 437.1   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 192.87                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 279.8   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 38.57                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 6994    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 77.15                                                                                                                                                                                                                                                                                                                                                                                          | 2       | 1749    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 115.72                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 777.2   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 154.3                                                                                                                                                                                                                                                                                                                                                                                          | 4       | 437.1   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 192.87                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 279.8   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| D(cm)                                                                                                                                                                                                                                                                                                                                                                                          | h(m)    | E(lx)   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 72.14                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 6994    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 77.15                                                                                                                                                                                                                                                                                                                                                                                          | 2       | 1749    |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 115.72                                                                                                                                                                                                                                                                                                                                                                                         | 3       | 777.2   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 154.3                                                                                                                                                                                                                                                                                                                                                                                          | 4       | 437.1   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |
| 192.87                                                                                                                                                                                                                                                                                                                                                                                         | 5       | 279.8   |              |       |   |      |       |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                |       |      |       |       |   |      |        |   |      |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |       |       |   |      |        |   |       |        |   |       |        |   |       |        |   |       |

3000K 30W

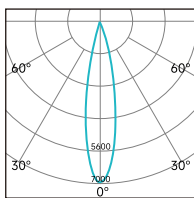
| 18°                                                                               |        |      |       |
|-----------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                   | 38.37  | 1    | 9499  |
|                                                                                   | 76.75  | 2    | 2375  |
|                                                                                   | 115.12 | 3    | 1055  |
|                                                                                   | 153.5  | 4    | 593.7 |
|                                                                                   | 191.87 | 5    | 380   |

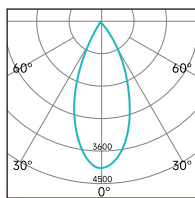
| 25°                                                                                |        |      |       |
|------------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                    | 52.8   | 1    | 4940  |
|                                                                                    | 105.59 | 2    | 1235  |
|                                                                                    | 158.39 | 3    | 548.9 |
|                                                                                    | 211.18 | 4    | 308.7 |
|                                                                                    | 263.98 | 5    | 197.6 |

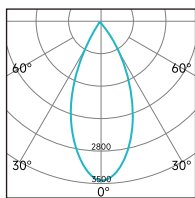
| 40°                                                                                 |        |      |       |
|-------------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                     | 71.43  | 1    | 3564  |
|                                                                                     | 142.85 | 2    | 891.1 |
|                                                                                     | 214.28 | 3    | 396   |
|                                                                                     | 285.71 | 4    | 222.8 |
|                                                                                     | 357.13 | 5    | 142.6 |

| 50°                                                                                  |        |      |       |
|--------------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                      | 92.31  | 1    | 2246  |
|                                                                                      | 184.62 | 2    | 561.4 |
|                                                                                      | 276.93 | 3    | 249.5 |
|                                                                                      | 369.25 | 4    | 140.4 |
|                                                                                      | 461.56 | 5    | 89.83 |

|  | | | |

| 20°X30°                                                                            |        |      |       |
|------------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                    | 41.42  | 1    | 6969  |
|                                                                                    | 82.85  | 2    | 1742  |
|                                                                                    | 124.27 | 3    | 774.4 |
|                                                                                    | 165.7  | 4    | 435.6 |
|                                                                                    | 207.12 | 5    | 278.8 |

| 25°X40°                                                                             |        |      |       |
|-------------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                     | 45.06  | 1    | 4127  |
|                                                                                     | 90.12  | 2    | 1032  |
|                                                                                     | 135.18 | 3    | 458.5 |
|                                                                                     | 180.24 | 4    | 257.9 |
|                                                                                     | 225.3  | 5    | 165.1 |

| 25°X50°                                                                              |        |      |       |
|--------------------------------------------------------------------------------------|--------|------|-------|
|  | D(cm)  | h(m) | E(lx) |
|                                                                                      | 48.87  | 1    | 3476  |
|                                                                                      | 97.75  | 2    | 869.1 |
|                                                                                      | 146.62 | 3    | 386.3 |
|                                                                                      | 195.49 | 4    | 217.3 |
|                                                                                      | 244.37 | 5    | 139.1 |

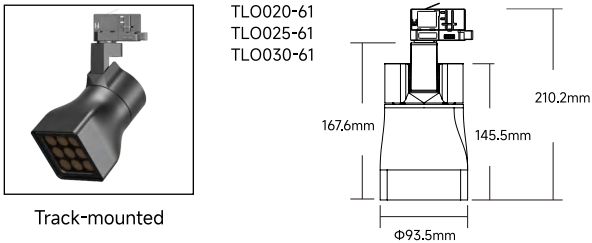
LUMEN MULTIPLIERS

| CCT   | MULTIPLIER |
|-------|------------|
| 2700K | 0.95       |
| 3000K | 1.00       |
| 3500K | 1.03       |
| 4000K | 1.06       |

Applying Lumen Multipliers to Calculate Delivered Lumens

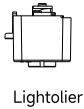
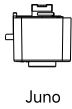
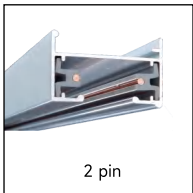
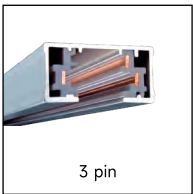
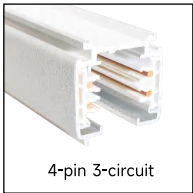
|                                                          |   |                   |   |                                         |
|----------------------------------------------------------|---|-------------------|---|-----------------------------------------|
| Base Fixture Delivered Lumens<br>(from PHOTOMETRIC DATA) | x | CCT<br>Multiplier | = | Delivered Lumens for<br>Desired Fixture |
| STANDARD TRIM Example: TLO020-61 20W 3500K               |   |                   |   |                                         |
| 1809 lm                                                  | x | 1.03              | = | 1863 lm                                 |

DIMENSION



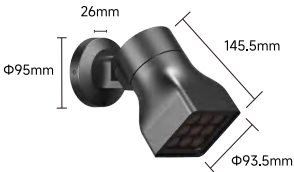
INSTALLATION

Track-mounted

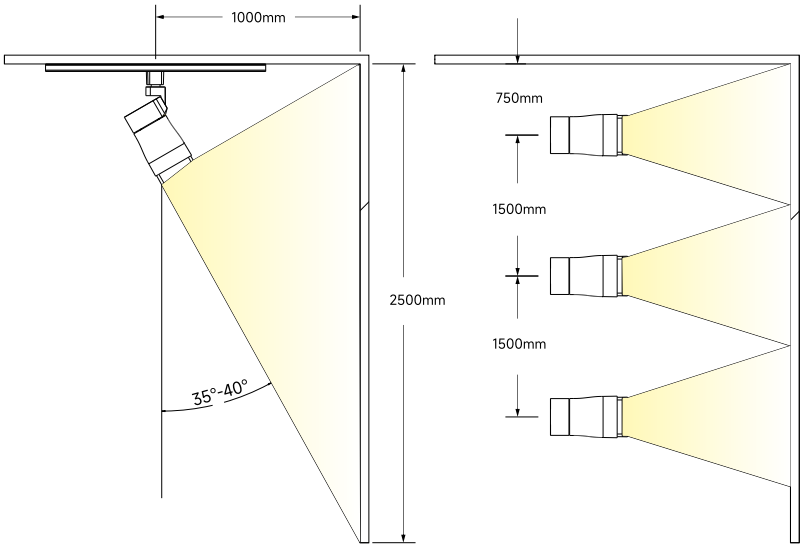


Wall-mounted

TLO020-64  
TLO025-64  
TLO030-64



WALL WASHING SUGGESTED SPACING AND WALL DISTANCE



EXCELLENT MODULAR COMBINATION CONCEPT



OVEGA TRACK LIGHT SYSTEM

UNLIMITED POSSIBILITIES with OVEGA family. Seven versions in excellent modular combination concept with similar appearances but different light solutions entitle OVEGA family will fit smoothly into any retails, museums and galleries environment.

In versions with different light solutions, OVEGA covers high performance accent lighting with very narrow beam 6°, different interchangeable beam lens & different optical accessories, flood lighting of exhibits, beam angle adjusting from narrow to wide, wall washing and projection.

Except versatile light solutions, OVEGA is also a complete family with different installation methods(track-mounted, pendant, surface-mounted and wall-mounted). So, if you have an environment where ask for different light solutions & different installation methods, OVEGA family will be a great choice to get a unified impression.

DETAILS



Scan to know more about product information