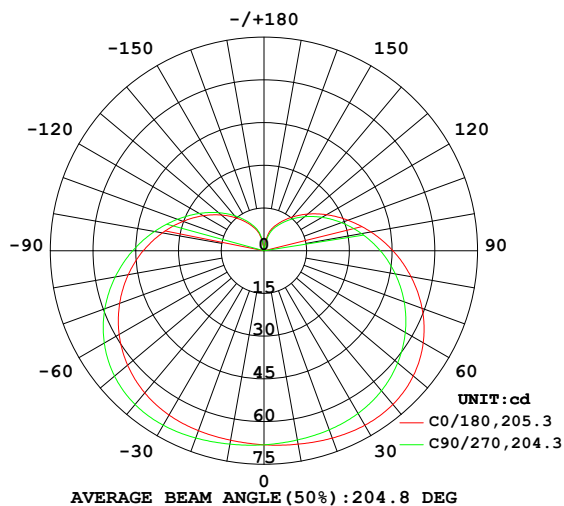


## LUMINAIRE PHOTOMETRIC TEST REPORT

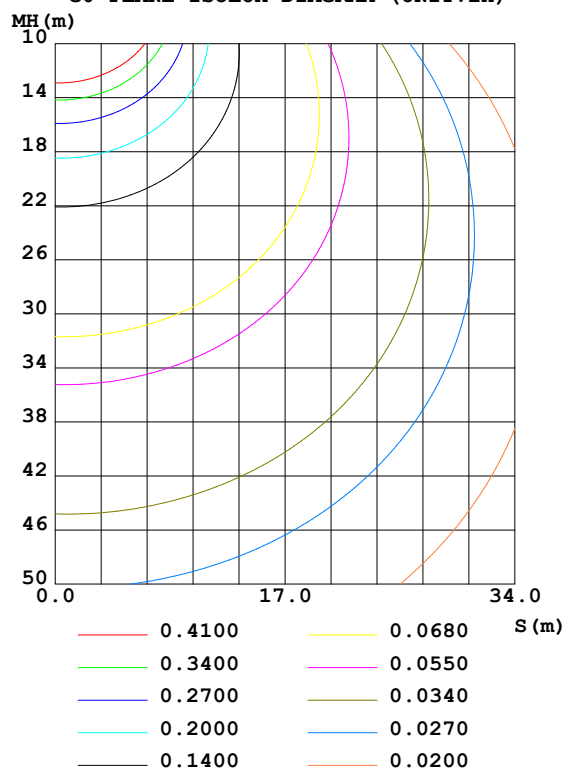
|                                                                                  |       |                          |
|----------------------------------------------------------------------------------|-------|--------------------------|
| Test:U:230.08V I:0.0380A P:4.7798W PF:0.5464 Freq:50.00Hz Lamp Flux:530.648x1 lm |       |                          |
| NAME:                                                                            | TYPE: | WEIGHT:                  |
| SPEC.: P45 Bulb 4.9W, 500lm 40K E14, Non-dim                                     | DIM.: | SERIAL No.: A2116079F001 |
| MFR.:                                                                            | SUR.: | Shielding Angle:         |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 111.02 lm/W |         |                     |            |
|-------------------|---------|-----------------------------------|---------|---------------------|------------|
| MODEL             |         | I <sub>max</sub> (cd)             | 72.93   | S/MH (C0/180)       | 1.49       |
| NOMINAL POWER (W) |         | LOR (%)                           | 100.0   | S/MH (C90/270)      | 1.59       |
| RATED VOLTAGE (V) |         | TOTAL FLUX (lm)                   | 530.65  | η UP, DN (C0-180)   | 14.1, 34.3 |
| NOMINAL FLUX (lm) | 530.648 | CIE CLASS                         | SEMI-D. | η UP, DN (C180-360) | 15.2, 36.4 |
| LAMPS INSIDE      | 1       | η up (%)                          | 29.4    | CIBSE SHR NOM       | 1.75       |
| TEST VOLTAGE (V)  |         | η down (%)                        | 70.6    | CIBSE SHR MAX       | 1.75       |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: lsc  
 Test Date: 2021-12-01

Checker: HXP

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
 Humidity: 49%  
 Test Distance: 1.528m [K=1.0000]  
 Remarks:

Assessor:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 68.96                 | 68.13  | 67.47  | 67.29  | 67.55  | 68.19  | 68.95  | 69.34  | 0- 10    | 6.508       | 6.508        | 1.23,1.23  |
| 20       | 70.01                 | 68.11  | 66.92  | 66.76  | 67.23  | 68.34  | 69.97  | 70.96  | 10- 20   | 19.39       | 25.90        | 4.88,4.88  |
| 30       | 70.77                 | 67.68  | 65.99  | 65.90  | 66.63  | 68.20  | 70.75  | 72.46  | 20- 30   | 31.75       | 57.65        | 10.9,10.9  |
| 40       | 70.43                 | 66.26  | 64.17  | 64.13  | 65.14  | 67.11  | 70.45  | 72.88  | 30- 40   | 42.81       | 100.5        | 18.9,18.9  |
| 50       | 68.42                 | 63.57  | 61.27  | 61.25  | 62.50  | 64.72  | 68.50  | 71.41  | 40- 50   | 51.48       | 151.9        | 28.6,28.6  |
| 60       | 64.56                 | 59.58  | 57.29  | 57.34  | 58.72  | 60.98  | 64.76  | 67.84  | 50- 60   | 56.85       | 208.8        | 39.3,39.3  |
| 70       | 59.06                 | 54.45  | 52.38  | 52.49  | 53.93  | 56.07  | 59.46  | 62.29  | 60- 70   | 58.45       | 267.2        | 50.4,50.4  |
| 80       | 52.41                 | 48.51  | 46.80  | 46.98  | 48.40  | 50.27  | 53.04  | 55.32  | 70- 80   | 56.36       | 323.6        | 61,61      |
| 90       | 45.29                 | 42.21  | 40.86  | 41.08  | 42.42  | 43.99  | 46.10  | 47.72  | 80- 90   | 51.25       | 374.9        | 70.6,70.6  |
| 100      | 38.14                 | 35.79  | 34.80  | 35.06  | 36.24  | 37.49  | 39.07  | 40.12  | 90-100   | 44.08       | 418.9        | 78.9,78.9  |
| 110      | 31.39                 | 29.66  | 28.95  | 29.23  | 30.26  | 31.25  | 32.35  | 32.95  | 100-110  | 35.87       | 454.8        | 85.7,85.7  |
| 120      | 25.36                 | 24.04  | 23.53  | 23.79  | 24.66  | 25.44  | 26.25  | 26.58  | 110-120  | 27.64       | 482.4        | 90.9,90.9  |
| 130      | 20.07                 | 19.03  | 18.62  | 18.85  | 19.54  | 20.18  | 20.83  | 21.03  | 120-130  | 20.06       | 502.5        | 94.7,94.7  |
| 140      | 15.49                 | 14.64  | 14.29  | 14.47  | 15.01  | 15.53  | 16.10  | 16.25  | 130-140  | 13.56       | 516.1        | 97.3,97.3  |
| 150      | 11.61                 | 10.92  | 10.58  | 10.68  | 11.11  | 11.51  | 12.02  | 12.20  | 140-150  | 8.353       | 524.4        | 98.8,98.8  |
| 160      | 8.361                 | 7.703  | 7.274  | 7.410  | 7.813  | 8.106  | 8.556  | 8.783  | 150-160  | 4.506       | 528.9        | 99.7,99.7  |
| 170      | 2.348                 | 0.7269 | 0.1580 | 0.4628 | 2.299  | 3.192  | 3.908  | 4.017  | 160-170  | 1.678       | 530.6        | 100,100    |
| 180      | 0.1077                | 0.1088 | 0.1071 | 0.1075 | 0.1088 | 0.1093 | 0.1082 | 0.1076 | 170-180  | 0.0538      | 530.6        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT: lm    |              |            |

Conical surface Flux(90deg): 125.3 lm

%lum = 23.6%

%lamp = 23.6%

Conical surface Flux(120deg): 208.79 lm

%lum = 39.3%

%lamp = 39.3%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lsc  
 Test Date:2021-12-01

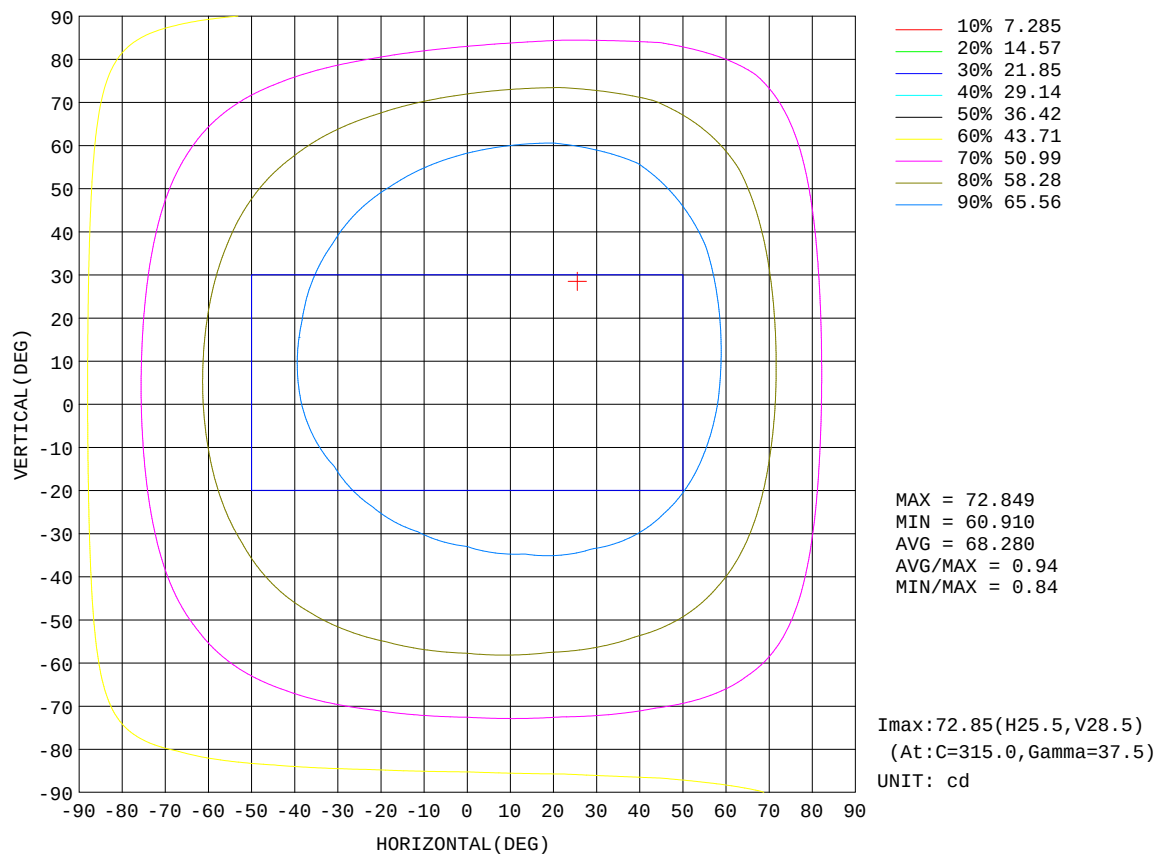
Checker: HXP

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
 Humidity:49%  
 Test Distance:1.528m [K=1.0000]  
 Remarks:

Assessor:

## ISOCANDELA DIAGRAM

|                                                                                  |       |                          |
|----------------------------------------------------------------------------------|-------|--------------------------|
| Test:U:230.08V I:0.0380A P:4.7798W PF:0.5464 Freq:50.00Hz Lamp Flux:530.648x1 lm |       |                          |
| NAME:                                                                            | TYPE: | WEIGHT:                  |
| SPEC.: P45 Bulb 4.9W, 500lm 40K E14, Non-dim                                     | DIM.: | SERIAL No.: A2116079F001 |
| MFR.:                                                                            | SUR.: | Shielding Angle:         |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: lsc  
Test Date: 2021-12-01

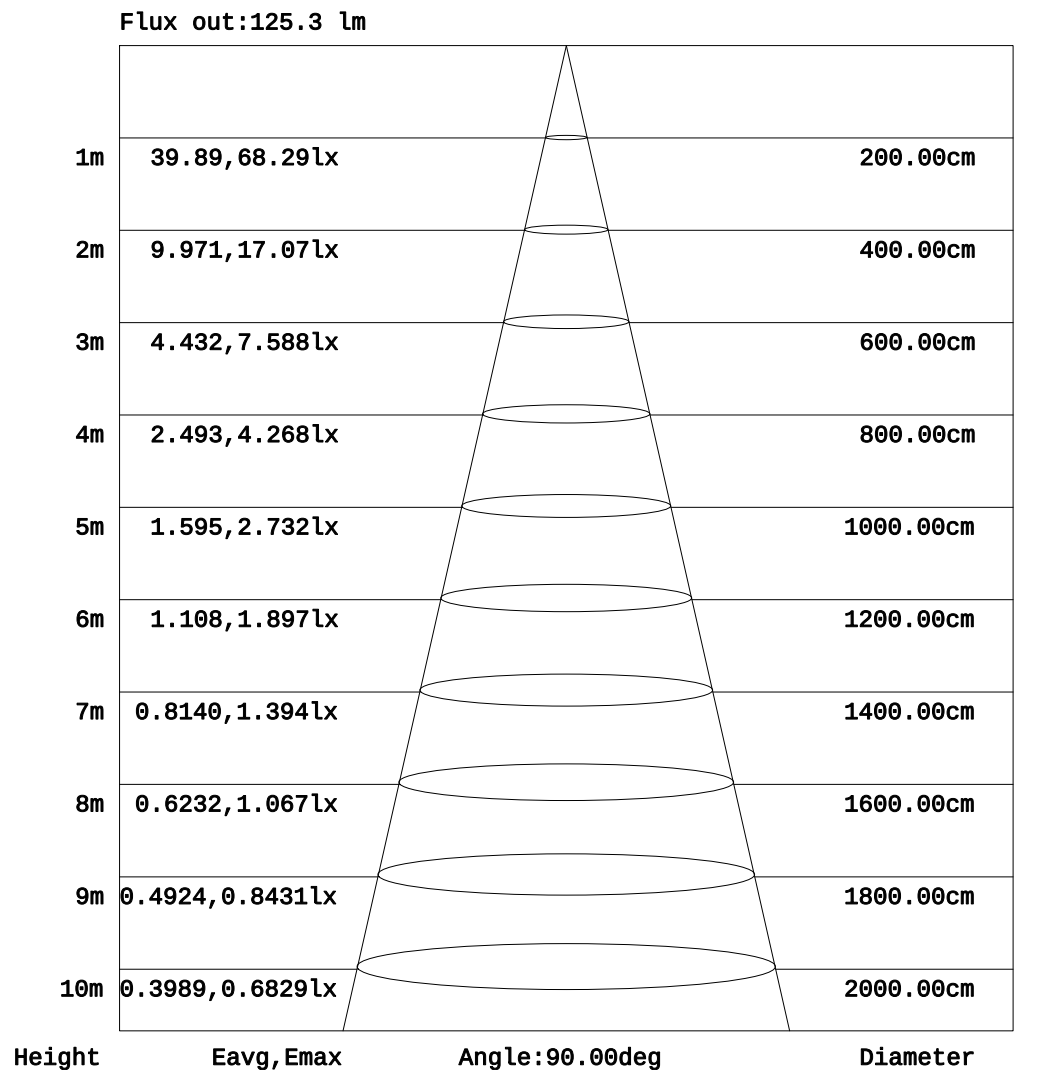
Checker: HXP

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
Humidity: 49%  
Test Distance: 1.528m [K=1.0000]  
Remarks:

Assessor:

## AAI Figure

|                                                                                  |       |                          |
|----------------------------------------------------------------------------------|-------|--------------------------|
| Test:U:230.08V I:0.0380A P:4.7798W PF:0.5464 Freq:50.00Hz Lamp Flux:530.648x1 lm |       |                          |
| NAME:                                                                            | TYPE: | WEIGHT:                  |
| SPEC.: P45 Bulb 4.9W, 500lm 40K E14, Non-dim                                     | DIM.: | SERIAL No.: A2116079F001 |
| MFR.:                                                                            | SUR.: | Shielding Angle:         |



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: lsc  
 Test Date: 2021-12-01

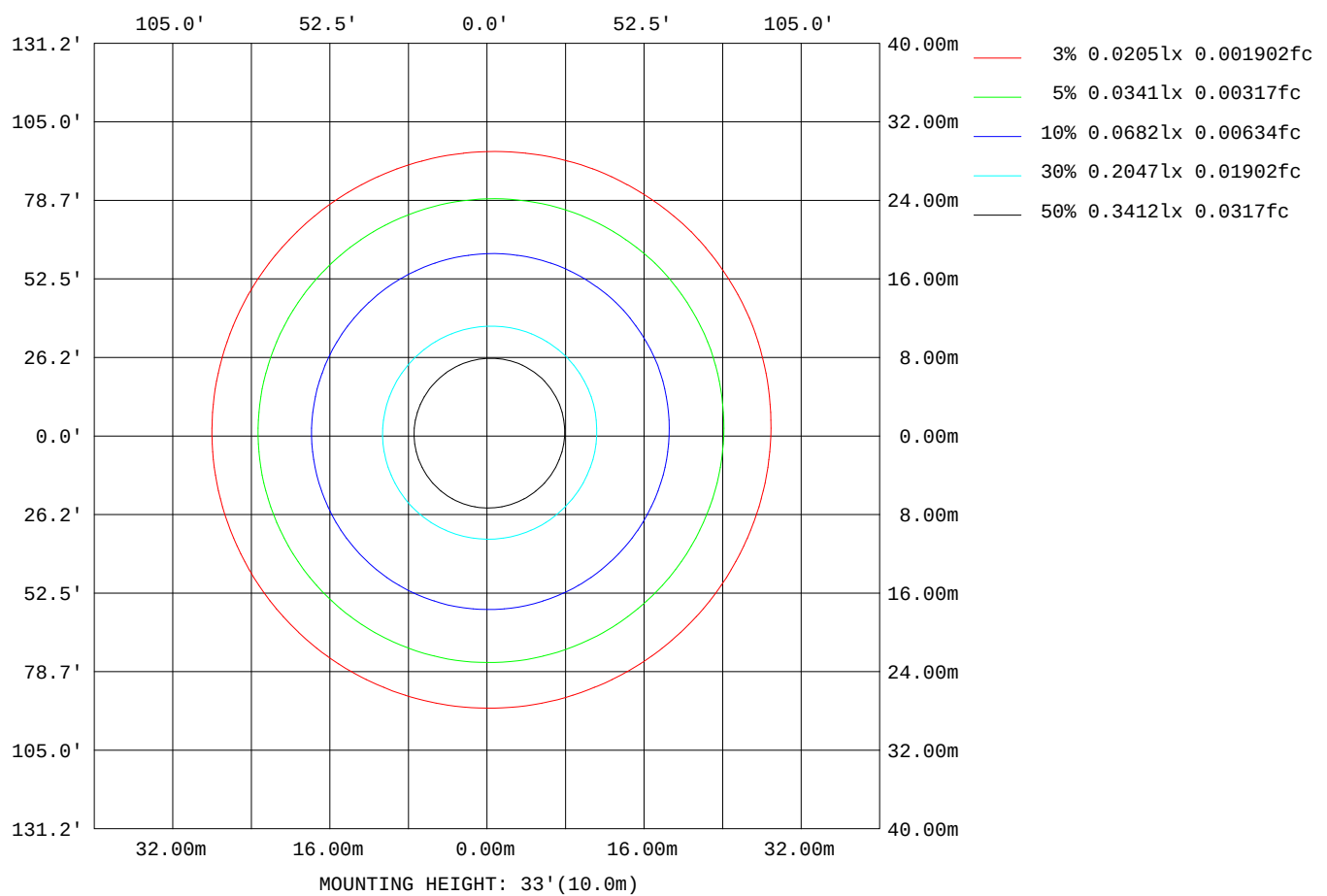
γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
 Humidity: 49%  
 Test Distance: 1.528m [K=1.0000]  
 Remarks:

Checker: HXP

Assessor:

## ISOLUX DIAGRAM

|                                                                                  |       |                          |
|----------------------------------------------------------------------------------|-------|--------------------------|
| Test:U:230.08V I:0.0380A P:4.7798W PF:0.5464 Freq:50.00Hz Lamp Flux:530.648x1 lm |       |                          |
| NAME:                                                                            | TYPE: | WEIGHT:                  |
| SPEC.: P45 Bulb 4.9W, 500lm 40K E14, Non-dim                                     | DIM.: | SERIAL No.: A2116079F001 |
| MFR.:                                                                            | SUR.: | Shielding Angle:         |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: lsc  
 Test Date: 2021-12-01

Checker: HXP

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
 Humidity: 49%  
 Test Distance: 1.528m [K=1.0000]  
 Remarks:

Assessor:

## LED Avg.L Report

|                                                                                  |       |                          |
|----------------------------------------------------------------------------------|-------|--------------------------|
| Test:U:230.08V I:0.0380A P:4.7798W PF:0.5464 Freq:50.00Hz Lamp Flux:530.648x1 lm |       |                          |
| NAME:                                                                            | TYPE: | WEIGHT:                  |
| SPEC.: P45 Bulb 4.9W, 500lm 40K E14, Non-dim                                     | DIM.: | SERIAL No.: A2116079F001 |
| MFR.:                                                                            | SUR.: | Shielding Angle:         |

| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 10562 |
| L_0~180 (75) av  | 15592 |
| L_0~180 (85) av  | 40783 |
| L_90~270 (65) av | 10454 |
| L_90~270 (75) av | 15437 |
| L_90~270 (85) av | 40408 |
| L_45 (65) av     | 10528 |
| L_45 (75) av     | 15549 |
| L_45 (85) av     | 40675 |

Standard: GB/T 29293-2012

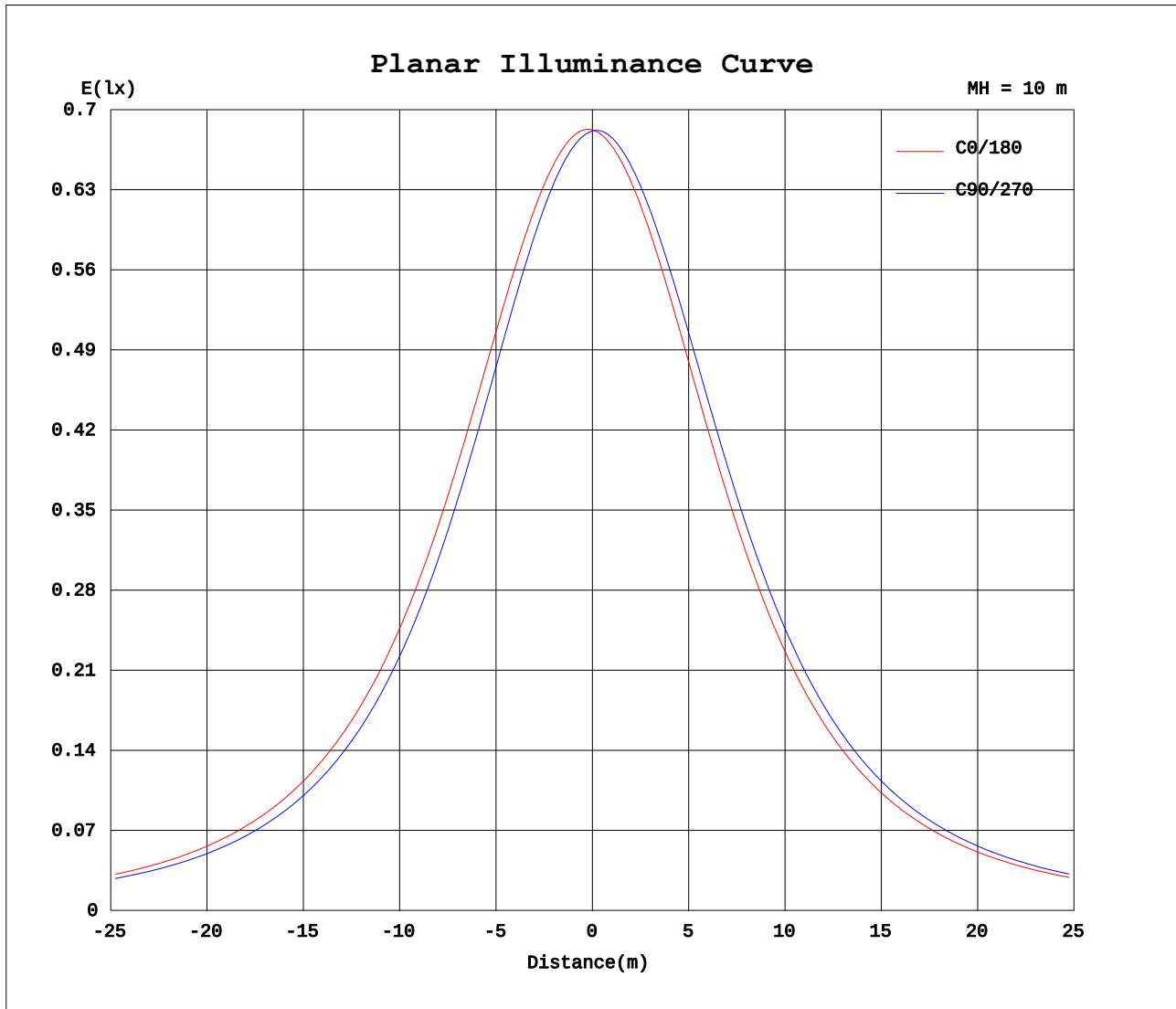
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lsc  
 Test Date:2021-12-01

Checker: HXP

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
 Humidity:49%  
 Test Distance:1.528m [K=1.0000]  
 Remarks:

Assessor:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: lsc  
Test Date: 2021-12-01

Checker: HXP

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
Humidity: 49%  
Test Distance: 1.528m [K=1.0000]  
Remarks:

Assessor:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |       |                          |
|----------------------------------------------------------------------------------|-------|--------------------------|
| Test:U:230.08V I:0.0380A P:4.7798W PF:0.5464 Freq:50.00Hz Lamp Flux:530.648x1 lm |       |                          |
| NAME:                                                                            | TYPE: | WEIGHT:                  |
| SPEC.: P45 Bulb 4.9W, 500lm 40K E14, Non-dim                                     | DIM.: | SERIAL No.: A2116079F001 |
| MFR.:                                                                            | SUR.: | Shielding Angle:         |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1  | 68.1 | 68.1  | 68.1 | 68.1  | 68.1 | 68.1  | 68.1 | 68.1  | 68.1 | 68.1  |  |  |  |
| 5                  | 68.5 | 68.4 | 68.1 | 67.9 | 67.8 | 67.7  | 67.6 | 67.7  | 67.8 | 68.0  | 68.1 | 68.4  | 68.5 | 68.7  | 68.7 | 68.7  |  |  |  |
| 10                 | 69.0 | 68.6 | 68.1 | 67.8 | 67.5 | 67.3  | 67.3 | 67.4  | 67.6 | 67.8  | 68.2 | 68.6  | 69.0 | 69.2  | 69.3 | 69.3  |  |  |  |
| 15                 | 69.5 | 68.8 | 68.1 | 67.6 | 67.2 | 67.0  | 67.0 | 67.1  | 67.4 | 67.8  | 68.3 | 68.9  | 69.4 | 69.9  | 70.1 | 70.0  |  |  |  |
| 20                 | 70.0 | 69.1 | 68.1 | 67.4 | 66.9 | 66.7  | 66.8 | 66.9  | 67.2 | 67.7  | 68.3 | 69.1  | 70.0 | 70.7  | 71.0 | 70.7  |  |  |  |
| 25                 | 70.5 | 69.2 | 68.0 | 67.1 | 66.5 | 66.3  | 66.4 | 66.6  | 67.0 | 67.6  | 68.3 | 69.3  | 70.4 | 71.4  | 71.8 | 71.5  |  |  |  |
| 30                 | 70.8 | 69.2 | 67.7 | 66.6 | 66.0 | 65.8  | 65.9 | 66.2  | 66.6 | 67.3  | 68.2 | 69.4  | 70.7 | 71.9  | 72.5 | 72.0  |  |  |  |
| 35                 | 70.8 | 68.9 | 67.1 | 65.9 | 65.2 | 65.0  | 65.1 | 65.5  | 66.0 | 66.8  | 67.8 | 69.2  | 70.8 | 72.2  | 72.9 | 72.4  |  |  |  |
| 40                 | 70.4 | 68.2 | 66.3 | 64.9 | 64.2 | 64.0  | 64.1 | 64.5  | 65.1 | 66.0  | 67.1 | 68.6  | 70.5 | 72.1  | 72.9 | 72.3  |  |  |  |
| 45                 | 69.6 | 67.2 | 65.1 | 63.6 | 62.9 | 62.6  | 62.8 | 63.2  | 64.0 | 64.9  | 66.1 | 67.7  | 69.7 | 71.5  | 72.4 | 71.7  |  |  |  |
| 50                 | 68.4 | 65.8 | 63.6 | 62.1 | 61.3 | 61.1  | 61.3 | 61.7  | 62.5 | 63.4  | 64.7 | 66.4  | 68.5 | 70.5  | 71.4 | 70.7  |  |  |  |
| 55                 | 66.7 | 64.0 | 61.7 | 60.2 | 59.4 | 59.2  | 59.4 | 59.9  | 60.8 | 61.7  | 63.0 | 64.7  | 66.9 | 68.9  | 69.9 | 69.1  |  |  |  |
| 60                 | 64.6 | 61.8 | 59.6 | 58.1 | 57.3 | 57.1  | 57.3 | 57.8  | 58.7 | 59.7  | 61.0 | 62.7  | 64.8 | 66.8  | 67.8 | 67.1  |  |  |  |
| 65                 | 62.0 | 59.3 | 57.1 | 55.7 | 54.9 | 54.8  | 55.0 | 55.5  | 56.4 | 57.4  | 58.7 | 60.3  | 62.3 | 64.2  | 65.3 | 64.5  |  |  |  |
| 70                 | 59.1 | 56.5 | 54.5 | 53.1 | 52.4 | 52.2  | 52.5 | 53.0  | 53.9 | 54.9  | 56.1 | 57.6  | 59.5 | 61.3  | 62.3 | 61.5  |  |  |  |
| 75                 | 55.8 | 53.5 | 51.6 | 50.3 | 49.7 | 49.5  | 49.8 | 50.3  | 51.2 | 52.1  | 53.3 | 54.7  | 56.4 | 58.0  | 58.9 | 58.2  |  |  |  |
| 80                 | 52.4 | 50.3 | 48.5 | 47.4 | 46.8 | 46.7  | 47.0 | 47.5  | 48.4 | 49.2  | 50.3 | 51.5  | 53.0 | 54.5  | 55.3 | 54.6  |  |  |  |
| 85                 | 48.9 | 46.9 | 45.4 | 44.4 | 43.9 | 43.8  | 44.1 | 44.6  | 45.4 | 46.2  | 47.1 | 48.3  | 49.6 | 50.9  | 51.5 | 50.8  |  |  |  |
| 90                 | 45.3 | 43.6 | 42.2 | 41.3 | 40.9 | 40.8  | 41.1 | 41.5  | 42.4 | 43.2  | 44.0 | 45.0  | 46.1 | 47.2  | 47.7 | 47.1  |  |  |  |
| 95                 | 41.7 | 40.2 | 39.0 | 38.2 | 37.8 | 37.8  | 38.1 | 38.5  | 39.3 | 40.0  | 40.7 | 41.6  | 42.6 | 43.5  | 43.9 | 43.3  |  |  |  |
| 100                | 38.1 | 36.8 | 35.8 | 35.1 | 34.8 | 34.8  | 35.1 | 35.5  | 36.2 | 36.8  | 37.5 | 38.2  | 39.1 | 39.8  | 40.1 | 39.6  |  |  |  |
| 105                | 34.7 | 33.6 | 32.7 | 32.1 | 31.8 | 31.8  | 32.1 | 32.5  | 33.2 | 33.8  | 34.3 | 35.0  | 35.6 | 36.3  | 36.4 | 35.9  |  |  |  |
| 110                | 31.4 | 30.4 | 29.7 | 29.2 | 29.0 | 29.0  | 29.2 | 29.6  | 30.3 | 30.7  | 31.2 | 31.8  | 32.3 | 32.8  | 32.9 | 32.5  |  |  |  |
| 115                | 28.3 | 27.4 | 26.8 | 26.3 | 26.2 | 26.2  | 26.5 | 26.8  | 27.4 | 27.8  | 28.3 | 28.7  | 29.2 | 29.6  | 29.7 | 29.2  |  |  |  |
| 120                | 25.4 | 24.6 | 24.0 | 23.7 | 23.5 | 23.6  | 23.8 | 24.1  | 24.7 | 25.0  | 25.4 | 25.8  | 26.3 | 26.6  | 26.6 | 26.2  |  |  |  |
| 125                | 22.6 | 22.0 | 21.5 | 21.1 | 21.0 | 21.1  | 21.3 | 21.5  | 22.0 | 22.4  | 22.7 | 23.1  | 23.5 | 23.7  | 23.7 | 23.4  |  |  |  |
| 130                | 20.1 | 19.5 | 19.0 | 18.7 | 18.6 | 18.7  | 18.9 | 19.1  | 19.5 | 19.9  | 20.2 | 20.5  | 20.8 | 21.1  | 21.0 | 20.7  |  |  |  |
| 135                | 17.7 | 17.2 | 16.8 | 16.5 | 16.4 | 16.4  | 16.6 | 16.8  | 17.2 | 17.5  | 17.8 | 18.1  | 18.4 | 18.6  | 18.5 | 18.3  |  |  |  |
| 140                | 15.5 | 15.0 | 14.6 | 14.4 | 14.3 | 14.3  | 14.5 | 14.7  | 15.0 | 15.3  | 15.5 | 15.8  | 16.1 | 16.3  | 16.3 | 16.0  |  |  |  |
| 145                | 13.5 | 13.0 | 12.7 | 12.5 | 12.4 | 12.4  | 12.5 | 12.7  | 13.0 | 13.2  | 13.4 | 13.7  | 14.0 | 14.1  | 14.1 | 13.9  |  |  |  |
| 150                | 11.6 | 11.2 | 10.9 | 10.7 | 10.6 | 10.6  | 10.7 | 10.8  | 11.1 | 11.3  | 11.5 | 11.8  | 12.0 | 12.2  | 12.2 | 12.0  |  |  |  |
| 155                | 9.92 | 9.59 | 9.30 | 9.08 | 8.96 | 8.93  | 9.00 | 9.13  | 9.39 | 9.51  | 9.74 | 9.98  | 10.2 | 10.4  | 10.4 | 10.3  |  |  |  |
| 160                | 8.36 | 8.06 | 7.70 | 7.38 | 7.27 | 7.12  | 7.41 | 7.50  | 7.81 | 7.89  | 8.11 | 8.34  | 8.56 | 8.72  | 8.78 | 8.72  |  |  |  |
| 165                | 6.38 | 6.00 | 5.36 | 4.99 | 4.77 | 4.41  | 5.21 | 5.36  | 5.86 | 5.93  | 6.14 | 6.47  | 6.70 | 6.76  | 6.92 | 6.85  |  |  |  |
| 170                | 2.35 | 1.49 | 0.73 | 0.18 | 0.16 | 0.18  | 0.46 | 1.10  | 2.30 | 2.39  | 3.19 | 3.61  | 3.91 | 3.81  | 4.02 | 3.54  |  |  |  |
| 175                | 0.12 | 0.12 | 0.11 | 0.12 | 0.11 | 0.11  | 0.11 | 0.11  | 0.10 | 0.10  | 0.10 | 0.10  | 0.10 | 0.10  | 0.10 | 0.10  |  |  |  |
| 180                | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11  | 0.11 | 0.11  | 0.11 | 0.11  | 0.11 | 0.11  | 0.11 | 0.11  | 0.11 | 0.11  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:lsc  
Test Date:2021-12-01

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.429  
Humidity:49%  
Test Distance:1.528m [K=1.0000]  
Remarks:

Checker: HXP

Assessor: