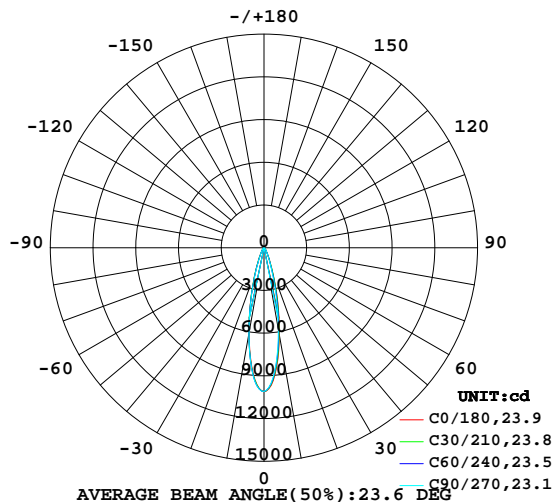


LUMINAIRE PHOTOMETRIC TEST REPORT

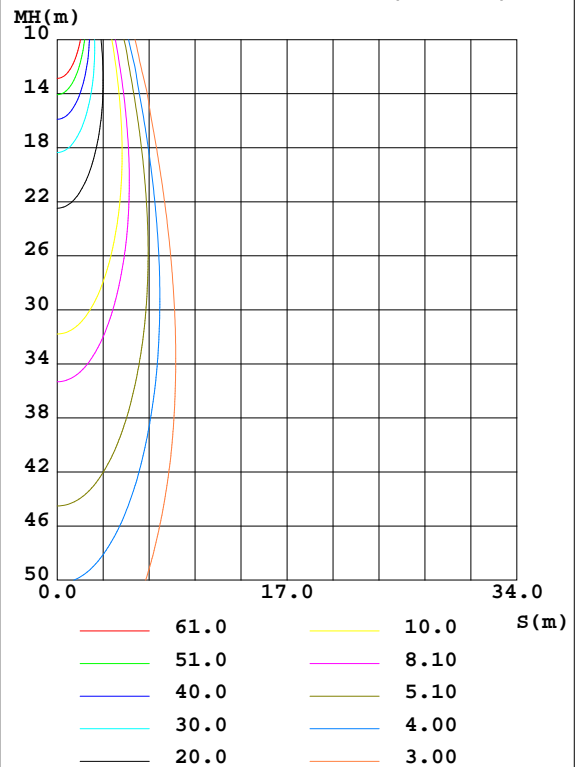
| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 130.20 lm/W | | | |
|------------------|------------------------|-----------------------------------|--------|------------------------|----------|
| MODEL | INDFPS020UNHD8SC2R4BZP | Imax(cd) | 10103 | S/MH(C0/180) | 0.40 |
| NOMINAL POWER(W) | 20 | LOR(%) | 100.0 | S/MH(C90/270) | 0.40 |
| RATED VOLTAGE(V) | 120-347 | TOTAL FLUX(lm) | 2482.9 | η UP,DN(C0-180) | 0.1,49.4 |
| NOMINAL FLUX(lm) | 2482.89 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.1,50.4 |
| LAMPS INSIDE | 1 | η up(%) | 0.1 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | 120 | η down(%) | 99.9 | CIBSE SHR MAX | 1.00 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 624.1 | 606.8 | 582.7 | 583.2 | 609.0 | 613.6 | 613.3 | 620.5 | 0- 10 | 752.7 | 752.7 | 30.3,30.3 |
| 20 | 170.7 | 165.4 | 145.5 | 150.9 | 169.3 | 168.2 | 155.9 | 164.9 | 10- 20 | 934.3 | 1687 | 67.9,67.9 |
| 30 | 45.81 | 46.60 | 44.42 | 43.92 | 45.69 | 44.91 | 42.75 | 43.77 | 20- 30 | 387.0 | 2074 | 83.5,83.5 |
| 40 | 18.75 | 19.01 | 18.71 | 18.42 | 18.61 | 17.93 | 17.38 | 17.73 | 30- 40 | 179.9 | 2254 | 90.8,90.8 |
| 50 | 9.238 | 9.261 | 9.074 | 9.024 | 9.162 | 8.922 | 8.701 | 8.870 | 40- 50 | 99.41 | 2353 | 94.8,94.8 |
| 60 | 5.022 | 4.979 | 4.842 | 4.862 | 4.995 | 4.920 | 4.778 | 4.888 | 50- 60 | 60.00 | 2413 | 97.2,97.2 |
| 70 | 2.810 | 2.756 | 2.657 | 2.694 | 2.797 | 2.758 | 2.714 | 2.754 | 60- 70 | 36.89 | 2450 | 98.7,98.7 |
| 80 | 1.495 | 1.458 | 1.208 | 1.351 | 1.524 | 1.478 | 1.317 | 1.403 | 70- 80 | 21.44 | 2472 | 99.5,99.5 |
| 90 | 0.0033 | 0.0031 | 0.0028 | 0.0034 | 0.0036 | 0.0039 | 0.0039 | 0.0042 | 80- 90 | 7.549 | 2479 | 99.9,99.9 |
| 100 | 0.0028 | 0.0028 | 0.0028 | 0.0028 | 0.0049 | 0.0048 | 0.0047 | 0.0047 | 90-100 | 0.0355 | 2479 | 99.9,99.9 |
| 110 | 0.0040 | 0.0039 | 0.0040 | 0.0040 | 0.0062 | 0.0062 | 0.0061 | 0.0061 | 100-110 | 0.0467 | 2479 | 99.9,99.9 |
| 120 | 0.0069 | 0.0068 | 0.0066 | 0.0068 | 0.0098 | 0.0097 | 0.0095 | 0.0094 | 110-120 | 0.0621 | 2479 | 99.9,99.9 |
| 130 | 0.0170 | 0.0168 | 0.0162 | 0.0165 | 0.0265 | 0.0263 | 0.0250 | 0.0250 | 120-130 | 0.1169 | 2479 | 99.9,99.9 |
| 140 | 0.0568 | 0.0573 | 0.0567 | 0.0571 | 0.1018 | 0.0992 | 0.0953 | 0.0959 | 130-140 | 0.3290 | 2480 | 99.9,99.9 |
| 150 | 0.1374 | 0.1387 | 0.1402 | 0.1395 | 0.2854 | 0.2817 | 0.2791 | 0.2794 | 140-150 | 0.8786 | 2481 | 99.9,99.9 |
| 160 | 0.1771 | 0.1774 | 0.1799 | 0.1793 | 0.4017 | 0.3995 | 0.4001 | 0.4034 | 150-160 | 1.196 | 2482 | 100,100 |
| 170 | 0.1656 | 0.1677 | 0.1707 | 0.1695 | 0.3342 | 0.3318 | 0.3305 | 0.3380 | 160-170 | 0.7990 | 2483 | 100,100 |
| 180 | 0.1967 | 0.1952 | 0.1934 | 0.1960 | 0.1969 | 0.1955 | 0.1919 | 0.1945 | 170-180 | 0.2151 | 2483 | 100,100 |
| DEG | LUMINOUS INTENSITY:×10cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 2310.2 lm

%lum = 93.0%

%lamp = 93.0%

Conical surface Flux(120deg): 2413.3 lm

%lum = 97.2%

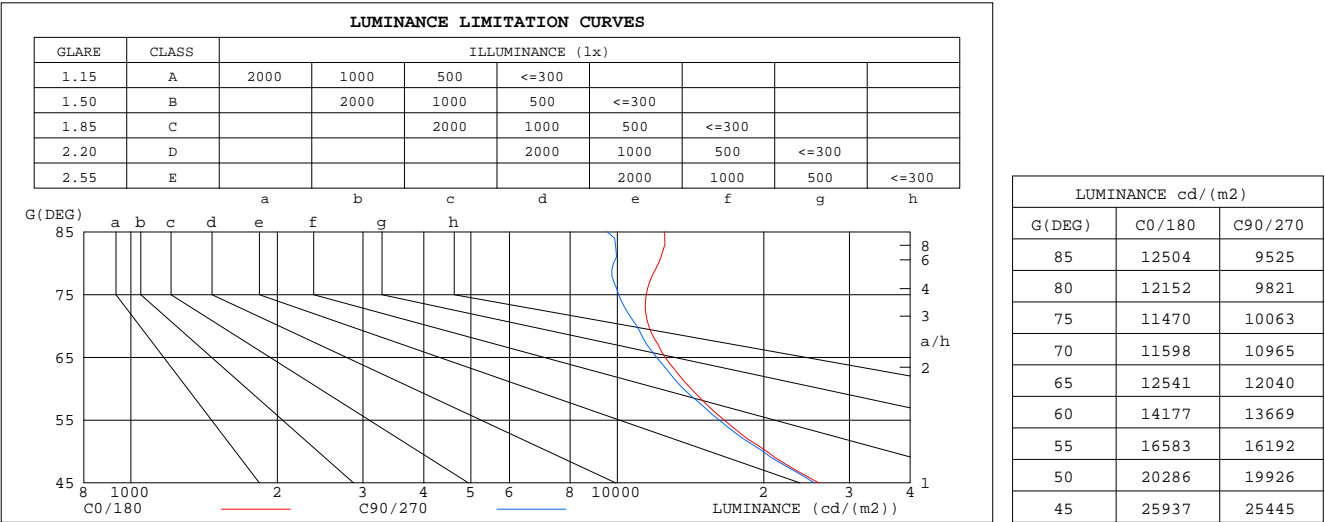
%lamp = 97.2%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |



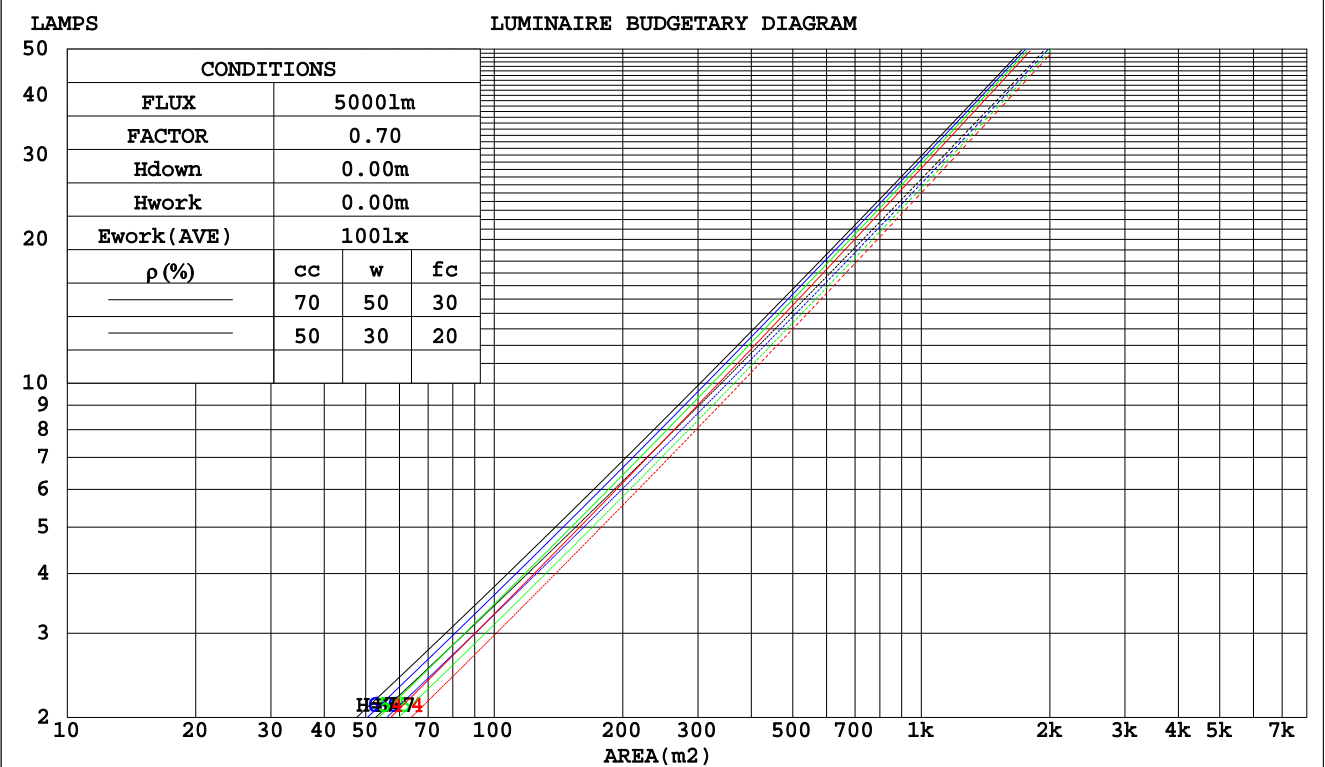
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

WEC AND CCEC

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .162 | .092 | .029 | .155 | .089 | .028 | .143 | .082 | .026 | .131 | .076 | .024 | .120 | .070 | .022 | | |
| 2.0 | .151 | .083 | .025 | .145 | .080 | .025 | .135 | .075 | .023 | .125 | .070 | .022 | .116 | .066 | .021 | | |
| 3.0 | .141 | .075 | .022 | .136 | .073 | .022 | .127 | .069 | .021 | .119 | .065 | .020 | .111 | .062 | .019 | | |
| 4.0 | .132 | .068 | .020 | .128 | .067 | .020 | .120 | .064 | .019 | .113 | .061 | .018 | .107 | .058 | .018 | | |
| 5.0 | .124 | .063 | .018 | .120 | .062 | .018 | .114 | .059 | .017 | .108 | .057 | .017 | .102 | .055 | .016 | | |
| 6.0 | .117 | .058 | .017 | .114 | .057 | .017 | .108 | .055 | .016 | .103 | .053 | .016 | .098 | .051 | .015 | | |
| 7.0 | .110 | .055 | .015 | .108 | .054 | .015 | .103 | .052 | .015 | .098 | .050 | .015 | .094 | .049 | .014 | | |
| 8.0 | .105 | .051 | .014 | .102 | .050 | .014 | .098 | .049 | .014 | .094 | .048 | .014 | .090 | .046 | .013 | | |
| 9.0 | .100 | .048 | .013 | .098 | .048 | .013 | .094 | .046 | .013 | .090 | .045 | .013 | .087 | .044 | .013 | | |
| 10.0 | .095 | .046 | .013 | .093 | .045 | .013 | .090 | .044 | .012 | .087 | .043 | .012 | .083 | .042 | .012 | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .192 | .192 | .192 | .164 | .164 | .164 | .112 | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 | |
| 1.0 | .171 | .159 | .147 | .146 | .136 | .127 | .100 | .094 | .088 | .058 | .054 | .051 | .018 | .017 | .016 | |
| 2.0 | .155 | .134 | .116 | .132 | .115 | .100 | .091 | .080 | .070 | .052 | .046 | .041 | .017 | .015 | .013 | |
| 3.0 | .141 | .115 | .094 | .121 | .099 | .081 | .083 | .069 | .057 | .048 | .040 | .034 | .015 | .013 | .011 | |
| 4.0 | .129 | .100 | .077 | .111 | .086 | .067 | .076 | .060 | .047 | .044 | .035 | .028 | .014 | .011 | .009 | |
| 5.0 | .119 | .088 | .064 | .102 | .076 | .056 | .070 | .053 | .039 | .041 | .031 | .023 | .013 | .010 | .008 | |
| 6.0 | .111 | .078 | .054 | .095 | .067 | .047 | .066 | .047 | .033 | .038 | .028 | .020 | .012 | .009 | .007 | |
| 7.0 | .103 | .070 | .046 | .089 | .061 | .040 | .061 | .042 | .029 | .036 | .025 | .017 | .012 | .008 | .006 | |
| 8.0 | .097 | .063 | .040 | .083 | .055 | .035 | .058 | .038 | .025 | .034 | .023 | .015 | .011 | .007 | .005 | |
| 9.0 | .091 | .058 | .035 | .078 | .050 | .031 | .054 | .035 | .022 | .032 | .021 | .013 | .010 | .007 | .004 | |
| 10.0 | .086 | .053 | .031 | .074 | .046 | .027 | .051 | .032 | .019 | .030 | .019 | .011 | .010 | .006 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.6%
 Test Distance: 2.500m [K=1.0461]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|--|---------------|------------------|------|------|------|---------------|----------------|------|------------------|------|------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | | | | | | | | | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | | | | | | TYPE:LED | | | WEIGHT: | | |
| SPEC.: | | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: LEDVANCE LLC | | | | | | SUR.: | | | Shielding Angle: | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 17.5 | 18.3 | 17.7 | 18.5 | 18.6 | 17.4 | 18.1 | 17.6 | 18.3 | 18.4 | |
| | 3H | 18.2 | 18.9 | 18.5 | 19.1 | 19.3 | 18.0 | 18.7 | 18.3 | 18.9 | 19.1 |
| | 4H | 18.6 | 19.3 | 18.8 | 19.5 | 19.7 | 18.3 | 19.0 | 18.6 | 19.2 | 19.4 |
| | 6H | 18.9 | 19.6 | 19.2 | 19.8 | 20.1 | 18.6 | 19.2 | 18.9 | 19.5 | 19.7 |
| | 8H | 19.1 | 19.7 | 19.4 | 20.0 | 20.2 | 18.7 | 19.3 | 19.0 | 19.6 | 19.8 |
| | 12H | 19.2 | 19.8 | 19.5 | 20.1 | 20.4 | 18.8 | 19.4 | 19.1 | 19.6 | 19.9 |
| 4H | 2H | 17.8 | 18.4 | 18.0 | 18.7 | 18.9 | 17.6 | 18.3 | 17.9 | 18.5 | 18.7 |
| | 3H | 18.6 | 19.2 | 19.0 | 19.5 | 19.8 | 18.5 | 19.1 | 18.8 | 19.3 | 19.6 |
| | 4H | 19.1 | 19.7 | 19.5 | 20.0 | 20.3 | 18.9 | 19.4 | 19.2 | 19.7 | 20.0 |
| | 6H | 19.7 | 20.2 | 20.0 | 20.5 | 20.8 | 19.3 | 19.8 | 19.6 | 20.1 | 20.4 |
| | 8H | 19.9 | 20.4 | 20.3 | 20.7 | 21.1 | 19.4 | 19.9 | 19.8 | 20.3 | 20.6 |
| | 12H | 20.1 | 20.5 | 20.5 | 20.9 | 21.3 | 19.6 | 20.0 | 20.0 | 20.4 | 20.8 |
| 8H | 4H | 19.3 | 19.8 | 19.7 | 20.1 | 20.5 | 19.1 | 19.5 | 19.4 | 19.9 | 20.2 |
| | 6H | 20.0 | 20.4 | 20.4 | 20.7 | 21.2 | 19.6 | 20.0 | 20.0 | 20.4 | 20.8 |
| | 8H | 20.3 | 20.6 | 20.7 | 21.0 | 21.5 | 19.9 | 20.2 | 20.3 | 20.6 | 21.1 |
| | 12H | 20.5 | 20.8 | 21.0 | 21.3 | 21.8 | 20.1 | 20.4 | 20.5 | 20.8 | 21.3 |
| 12H | 4H | 19.3 | 19.7 | 19.7 | 20.1 | 20.5 | 19.1 | 19.5 | 19.5 | 19.9 | 20.2 |
| | 6H | 20.0 | 20.4 | 20.5 | 20.8 | 21.2 | 19.7 | 20.0 | 20.1 | 20.4 | 20.9 |
| | 8H | 20.4 | 20.7 | 20.8 | 21.1 | 21.6 | 20.0 | 20.3 | 20.4 | 20.7 | 21.2 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 0.5 / - 0.7 | | | | | + 0.6 / - 0.7 | | | | | |
| 1.5H | + 0.7 / - 0.5 | | | | | + 0.8 / - 0.5 | | | | | |
| 2.0H | + 0.9 / - 0.6 | | | | | + 1.0 / - 0.6 | | | | | |

CIE Pub.117, 2483 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.2$)
Area: 0.00708462 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

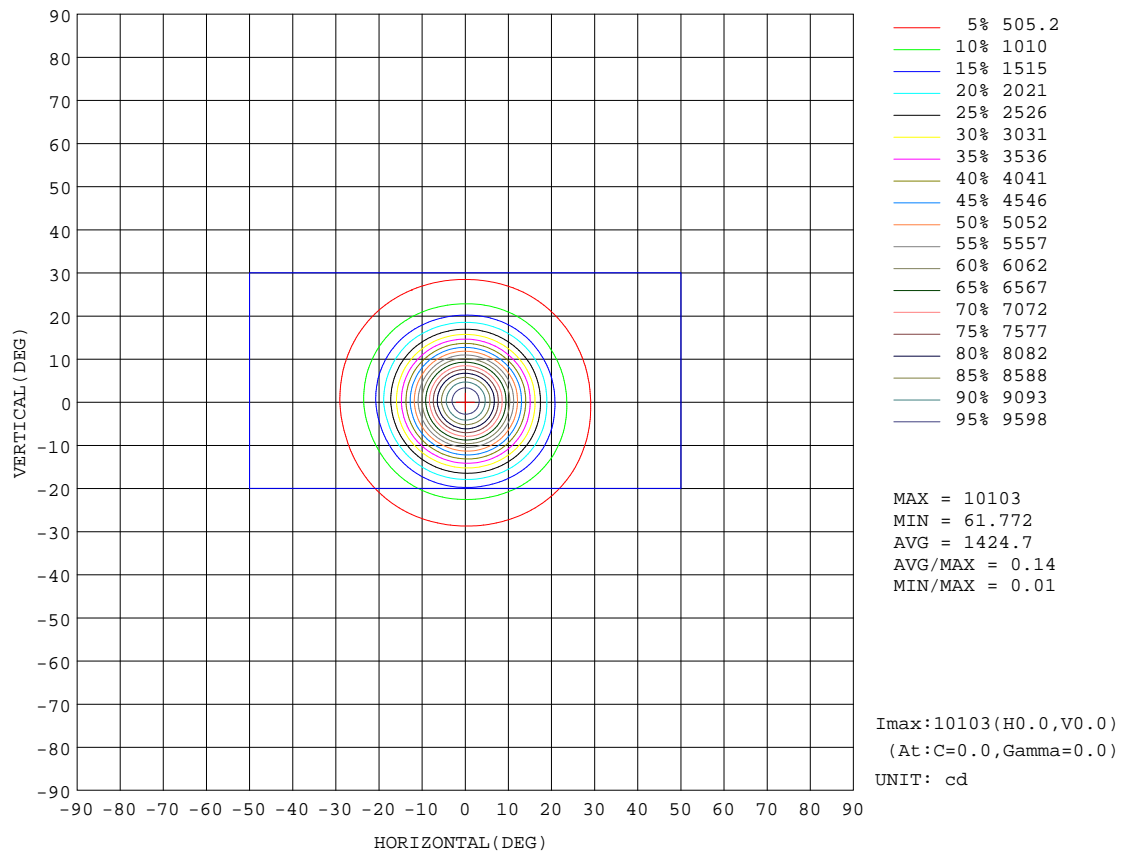
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 86 | 79 | 75 | 85 | 79 | 75 | 85 | 79 | 75 | 71 |
| 0.80 | 93 | 87 | 83 | 93 | 87 | 83 | 91 | 86 | 83 | 79 |
| 1.00 | 98 | 92 | 88 | 97 | 92 | 88 | 95 | 91 | 87 | 83 |
| 1.25 | 102 | 96 | 93 | 101 | 96 | 92 | 99 | 95 | 92 | 87 |
| 1.50 | 105 | 100 | 96 | 104 | 99 | 96 | 101 | 97 | 95 | 90 |
| 2.00 | 108 | 103 | 100 | 106 | 102 | 99 | 103 | 100 | 98 | 92 |
| 2.50 | 109 | 105 | 102 | 108 | 104 | 101 | 105 | 102 | 99 | 93 |
| 3.00 | 111 | 108 | 105 | 109 | 106 | 103 | 106 | 103 | 101 | 95 |
| 4.00 | 113 | 110 | 108 | 111 | 109 | 107 | 108 | 106 | 104 | 97 |
| 5.00 | 115 | 112 | 110 | 112 | 110 | 109 | 108 | 107 | 105 | 98 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.6%
 Test Distance: 2.500m [K=1.0461]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

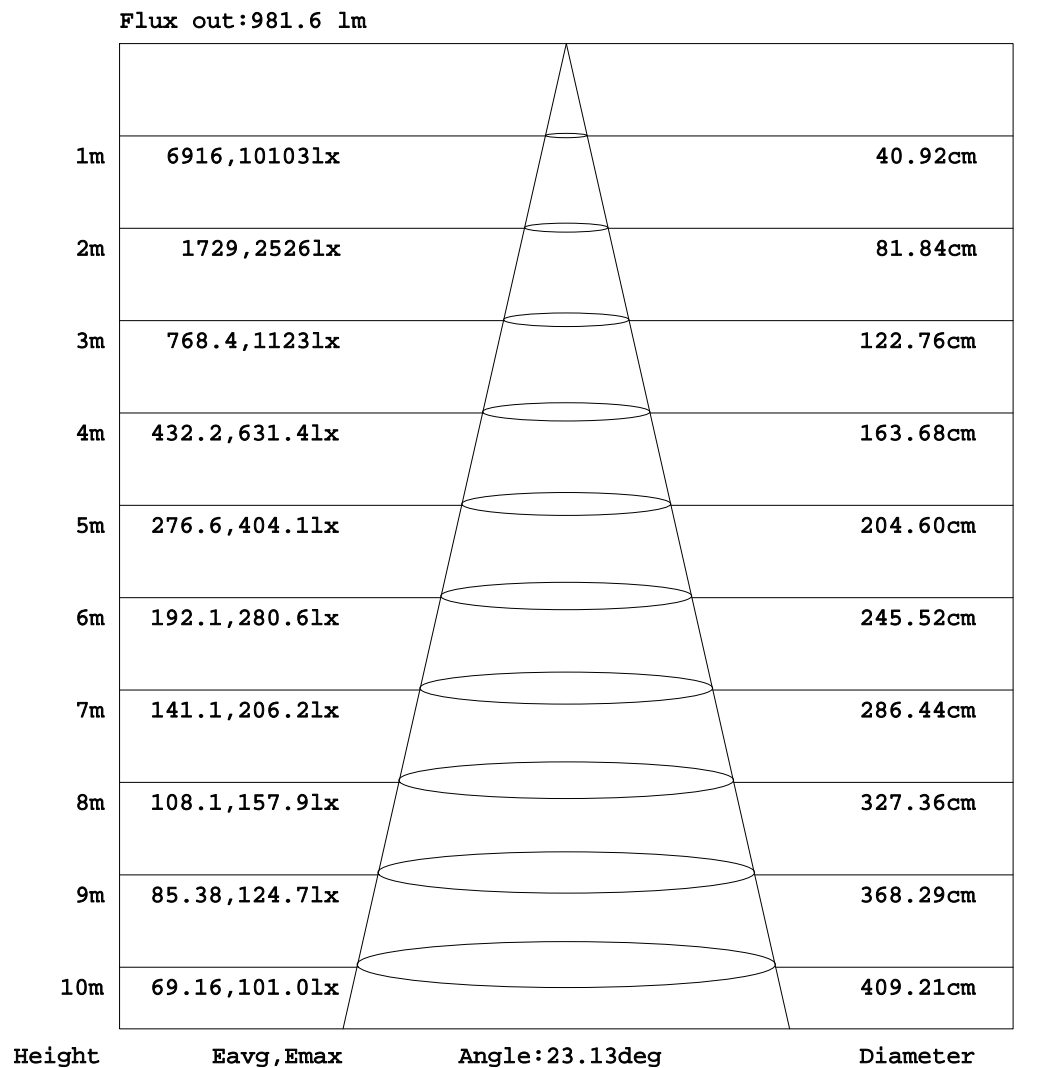


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

AAI Figure

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |



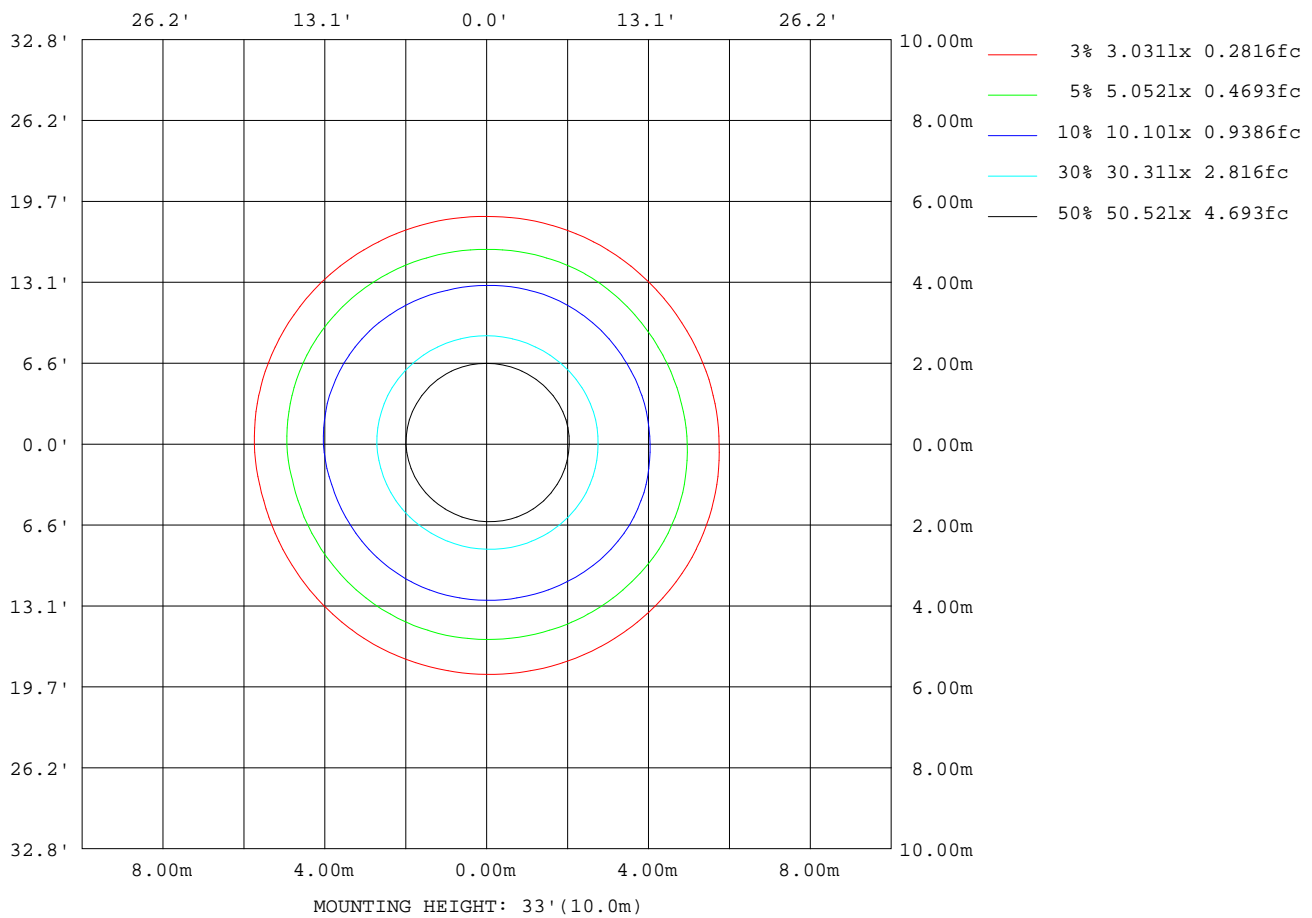
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators:Alan Wang
Test Date:15 October 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance:2.500m [K=1.0461]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.6%
 Test Distance: 2.500m [K=1.0461]
 Remarks:

LED Avg.L Report

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

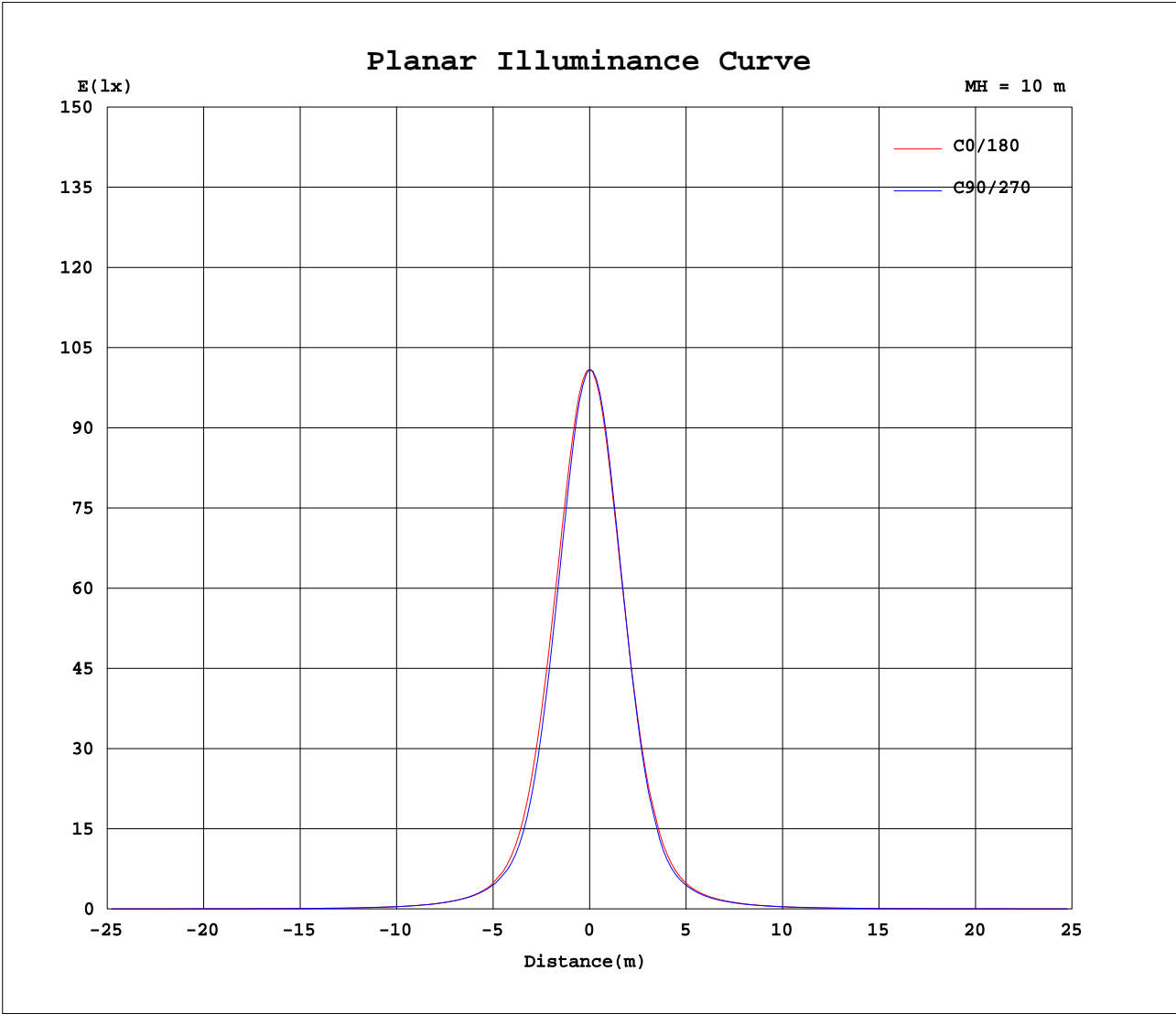
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 12510 |
| L_0~180(75)av | 11484 |
| L_0~180(85)av | 12800 |
| L_90~270(65)av | 12085 |
| L_90~270(75)av | 10336 |
| L_90~270(85)av | 10357 |
| L_45(65)av | 12259 |
| L_45(75)av | 10978 |
| L_45(85)av | 11385 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.6%
Test Distance: 2.500m [K=1.0461]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

Table--1

UNIT: ×10cd

| γ (DEG) \ C (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 1010 | 1010 | 1010 | 1010 | 1009 | 1010 | 1009 | 1009 | 1009 | 1009 | 1009 | 1009 | 1010 | 1010 | 1010 | 1010 | 1009 | 1010 | 1009 |
| 5 | 893 | 890 | 886 | 882 | 877 | 872 | 870 | 869 | 868 | 869 | 872 | 876 | 884 | 886 | 890 | 892 | 894 | 896 | 896 |
| 10 | 624 | 620 | 613 | 607 | 599 | 590 | 583 | 578 | 578 | 583 | 591 | 598 | 609 | 612 | 612 | 614 | 614 | 614 | 613 |
| 15 | 356 | 354 | 349 | 341 | 330 | 320 | 313 | 310 | 312 | 318 | 327 | 335 | 344 | 347 | 347 | 344 | 339 | 337 | 335 |
| 20 | 171 | 174 | 172 | 165 | 156 | 149 | 146 | 146 | 148 | 151 | 154 | 160 | 169 | 173 | 172 | 168 | 161 | 156 | 156 |
| 25 | 84.2 | 86.4 | 86.1 | 82.3 | 80.2 | 77.3 | 76.1 | 76.3 | 76.8 | 77.1 | 77.6 | 79.5 | 82.5 | 84.0 | 83.4 | 81.2 | 78.3 | 76.0 | 75.0 |
| 30 | 45.8 | 47.0 | 47.2 | 46.6 | 45.8 | 45.0 | 44.4 | 44.2 | 44.2 | 43.9 | 43.8 | 44.1 | 45.7 | 46.2 | 45.8 | 44.9 | 44.0 | 43.2 | 42.7 |
| 35 | 28.6 | 29.2 | 29.2 | 29.2 | 28.7 | 28.5 | 28.4 | 28.2 | 27.9 | 27.8 | 27.8 | 27.9 | 28.5 | 28.5 | 28.1 | 27.7 | 27.1 | 26.8 | 26.6 |
| 40 | 18.7 | 19.2 | 19.3 | 19.0 | 18.9 | 18.8 | 18.7 | 18.4 | 18.4 | 18.4 | 18.4 | 18.2 | 18.6 | 18.5 | 18.3 | 17.9 | 17.8 | 17.4 | 17.4 |
| 45 | 13.0 | 13.1 | 13.1 | 13.0 | 13.0 | 12.8 | 12.7 | 12.6 | 12.6 | 12.6 | 12.7 | 12.6 | 12.8 | 12.7 | 12.7 | 12.5 | 12.2 | 12.1 | 12.0 |
| 50 | 9.24 | 9.36 | 9.38 | 9.26 | 9.19 | 9.11 | 9.07 | 9.10 | 9.09 | 9.02 | 9.08 | 9.05 | 9.16 | 9.15 | 9.10 | 8.92 | 8.79 | 8.68 | 8.70 |
| 55 | 6.74 | 6.80 | 6.84 | 6.73 | 6.65 | 6.55 | 6.58 | 6.57 | 6.61 | 6.55 | 6.57 | 6.55 | 6.70 | 6.71 | 6.70 | 6.56 | 6.50 | 6.39 | 6.45 |
| 60 | 5.02 | 5.04 | 5.08 | 4.98 | 4.93 | 4.86 | 4.84 | 4.84 | 4.87 | 4.86 | 4.90 | 4.90 | 4.99 | 4.99 | 5.01 | 4.92 | 4.87 | 4.83 | 4.78 |
| 65 | 3.75 | 3.77 | 3.74 | 3.70 | 3.66 | 3.59 | 3.60 | 3.56 | 3.62 | 3.63 | 3.68 | 3.67 | 3.74 | 3.72 | 3.78 | 3.68 | 3.68 | 3.63 | 3.63 |
| 70 | 2.81 | 2.83 | 2.80 | 2.76 | 2.72 | 2.67 | 2.66 | 2.62 | 2.65 | 2.69 | 2.69 | 2.73 | 2.80 | 2.80 | 2.83 | 2.76 | 2.76 | 2.73 | 2.71 |
| 75 | 2.10 | 2.12 | 2.08 | 2.05 | 1.98 | 1.88 | 1.85 | 1.85 | 1.92 | 1.93 | 1.94 | 2.03 | 2.11 | 2.10 | 2.12 | 2.07 | 2.04 | 1.99 | 1.95 |
| 80 | 1.49 | 1.50 | 1.46 | 1.46 | 1.39 | 1.28 | 1.21 | 1.25 | 1.32 | 1.35 | 1.40 | 1.48 | 1.52 | 1.51 | 1.51 | 1.48 | 1.42 | 1.37 | 1.32 |
| 85 | 0.77 | 0.70 | 0.62 | 0.70 | 0.72 | 0.63 | 0.59 | 0.64 | 0.69 | 0.66 | 0.66 | 0.77 | 0.81 | 0.72 | 0.68 | 0.74 | 0.78 | 0.75 | 0.69 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 115 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 120 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 125 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| 130 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 |
| 135 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 140 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 145 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 |
| 150 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.29 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| 155 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| 160 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| 165 | 0.17 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 |
| 170 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| 175 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.25 |
| 180 | 0.20 | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 | 0.19 |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 15 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity: 41.6%

Test Distance: 2.500m [K=1.0461]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1615A P:19.07W PF:0.9841 Freq:60.00Hz Lamp Flux:2482.89x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

Table--2

UNIT: x10cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 1009 | 1009 | 1009 | 1009 | 1009 | | | | | | | | | | | | | |
| 5 | 896 | 897 | 898 | 898 | 897 | | | | | | | | | | | | | |
| 10 | 613 | 616 | 621 | 625 | 629 | | | | | | | | | | | | | |
| 15 | 336 | 339 | 345 | 353 | 358 | | | | | | | | | | | | | |
| 20 | 159 | 163 | 165 | 167 | 171 | | | | | | | | | | | | | |
| 25 | 76.1 | 78.0 | 77.9 | 78.4 | 80.6 | | | | | | | | | | | | | |
| 30 | 43.2 | 43.5 | 43.8 | 44.2 | 45.3 | | | | | | | | | | | | | |
| 35 | 26.6 | 27.0 | 27.2 | 27.7 | 28.2 | | | | | | | | | | | | | |
| 40 | 17.3 | 17.5 | 17.7 | 18.3 | 18.4 | | | | | | | | | | | | | |
| 45 | 12.0 | 12.2 | 12.2 | 12.5 | 12.7 | | | | | | | | | | | | | |
| 50 | 8.75 | 8.83 | 8.87 | 8.99 | 9.03 | | | | | | | | | | | | | |
| 55 | 6.46 | 6.56 | 6.53 | 6.60 | 6.64 | | | | | | | | | | | | | |
| 60 | 4.84 | 4.92 | 4.89 | 4.94 | 4.96 | | | | | | | | | | | | | |
| 65 | 3.65 | 3.70 | 3.68 | 3.72 | 3.72 | | | | | | | | | | | | | |
| 70 | 2.74 | 2.75 | 2.75 | 2.77 | 2.77 | | | | | | | | | | | | | |
| 75 | 2.00 | 2.03 | 2.01 | 2.05 | 2.06 | | | | | | | | | | | | | |
| 80 | 1.37 | 1.43 | 1.40 | 1.45 | 1.48 | | | | | | | | | | | | | |
| 85 | 0.78 | 0.80 | 0.72 | 0.75 | 0.82 | | | | | | | | | | | | | |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 105 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | | | | | | | |
| 110 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | | | | | | | |
| 115 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | | | | | | | |
| 120 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | | | | | | | |
| 125 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | | | | | | | |
| 130 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | | | | | | | | | | | | | |
| 135 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | | | | | | | | | | | | |
| 140 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | | | | | | | | | | | | | |
| 145 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | | | | | | | | | | | | | |
| 150 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | | | | | | | | | | | | | |
| 155 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | | | | | | | | | | | | | |
| 160 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | | | | | | | | | | | | | |
| 165 | 0.39 | 0.40 | 0.40 | 0.40 | 0.40 | | | | | | | | | | | | | |
| 170 | 0.33 | 0.34 | 0.34 | 0.34 | 0.34 | | | | | | | | | | | | | |
| 175 | 0.26 | 0.26 | 0.26 | 0.26 | 0.27 | | | | | | | | | | | | | |
| 180 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | | | | | | | | | | | | | |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 15 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity: 41.6%

Test Distance: 2.500m [K=1.0461]

Remarks: