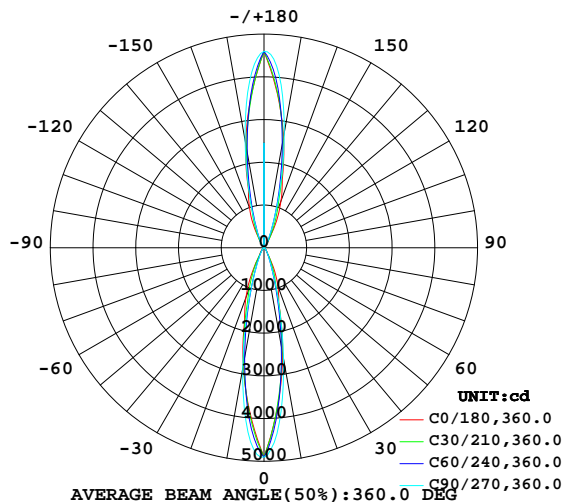


LUMINAIRE PHOTOMETRIC TEST REPORT

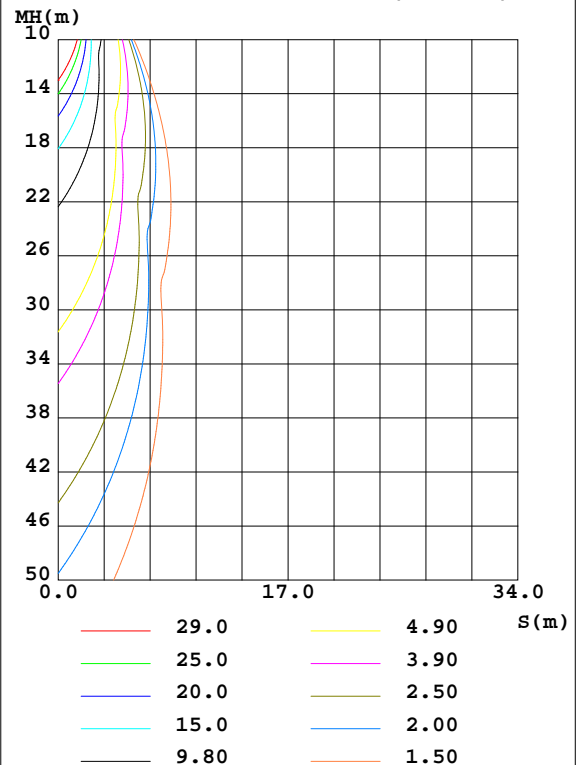
| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 142.52 lm/W | | | |
|------------------|------------------------|-----------------------------------|---------|------------------------|-----------|
| MODEL | INDEPS020UNHD8SC2R4BZP | Imax(cd) | 4902 | S/MH(C0/180) | 0.39 |
| NOMINAL POWER(W) | 20 | LOR(%) | 100.0 | S/MH(C90/270) | 0.39 |
| RATED VOLTAGE(V) | 120-347 | TOTAL FLUX(lm) | 2169.1 | η UP,DN(C0-180) | 25.3,24.5 |
| NOMINAL FLUX(lm) | 2169.14 | CIE CLASS | DIFFUSE | η UP,DN(C180-360) | 24.2,26.1 |
| LAMPS INSIDE | 1 | η up(%) | 49.4 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | 120 | η down(%) | 50.6 | 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 | 2524 | 2360 | 2638 | 2473 | 2804 | 2661 | 2880 | 2482 | 0- 10 | 327.9 | 327.9 | 15.1,15.1 |
| 20 | 946.5 | 607.1 | 588.7 | 683.3 | 1239 | 797.4 | 657.5 | 611.1 | 10- 20 | 400.0 | 727.9 | 33.6,33.6 |
| 30 | 170.3 | 200.9 | 182.2 | 219.3 | 209.6 | 234.2 | 178.4 | 195.1 | 20- 30 | 197.1 | 925.0 | 42.6,42.6 |
| 40 | 89.21 | 73.08 | 75.12 | 80.47 | 107.4 | 80.01 | 71.46 | 69.15 | 30- 40 | 79.46 | 1004 | 46.3,46.3 |
| 50 | 38.60 | 37.06 | 35.89 | 39.75 | 44.50 | 40.42 | 35.59 | 35.87 | 40- 50 | 42.87 | 1047 | 48.3,48.3 |
| 60 | 18.48 | 19.30 | 18.91 | 20.74 | 20.99 | 21.24 | 19.13 | 19.08 | 50- 60 | 25.02 | 1072 | 49.4,49.4 |
| 70 | 10.93 | 9.976 | 9.563 | 10.75 | 12.55 | 11.31 | 10.16 | 10.02 | 60- 70 | 14.65 | 1087 | 50.1,50.1 |
| 80 | 4.805 | 4.004 | 3.622 | 4.756 | 5.573 | 5.405 | 4.300 | 4.332 | 70- 80 | 7.893 | 1095 | 50.5,50.5 |
| 90 | 0.1012 | 0.0993 | 0.1164 | 0.0717 | 0.0533 | 0.1000 | 0.0422 | 0.1176 | 80- 90 | 2.343 | 1097 | 50.6,50.6 |
| 100 | 4.829 | 4.220 | 3.778 | 4.383 | 4.931 | 4.023 | 3.435 | 4.141 | 90-100 | 2.132 | 1099 | 50.7,50.7 |
| 110 | 11.42 | 10.15 | 9.734 | 10.19 | 11.04 | 9.679 | 9.290 | 10.03 | 100-110 | 7.406 | 1107 | 51,51 |
| 120 | 19.87 | 19.86 | 18.77 | 19.20 | 18.39 | 18.69 | 18.19 | 19.81 | 110-120 | 14.11 | 1121 | 51.7,51.7 |
| 130 | 43.06 | 38.28 | 34.40 | 35.44 | 36.45 | 35.00 | 33.84 | 38.39 | 120-130 | 24.02 | 1145 | 52.8,52.8 |
| 140 | 107.1 | 76.55 | 69.57 | 67.90 | 86.78 | 67.28 | 69.00 | 77.80 | 130-140 | 41.11 | 1186 | 54.7,54.7 |
| 150 | 212.1 | 227.3 | 178.2 | 202.6 | 169.4 | 195.3 | 176.2 | 228.1 | 140-150 | 77.70 | 1264 | 58.3,58.3 |
| 160 | 1171 | 737.4 | 661.9 | 678.0 | 995.5 | 616.6 | 626.9 | 739.4 | 150-160 | 199.0 | 1463 | 67.4,67.4 |
| 170 | 2633 | 2497 | 2753 | 2424 | 2471 | 2290 | 2557 | 2396 | 160-170 | 395.1 | 1858 | 85.6,85.6 |
| 180 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 170-180 | 311.3 | 2169 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 1029.3 lm

%lum = 47.4%

%lamp = 47.4%

Conical surface Flux(120deg): 1072.3 lm

%lum = 49.4%

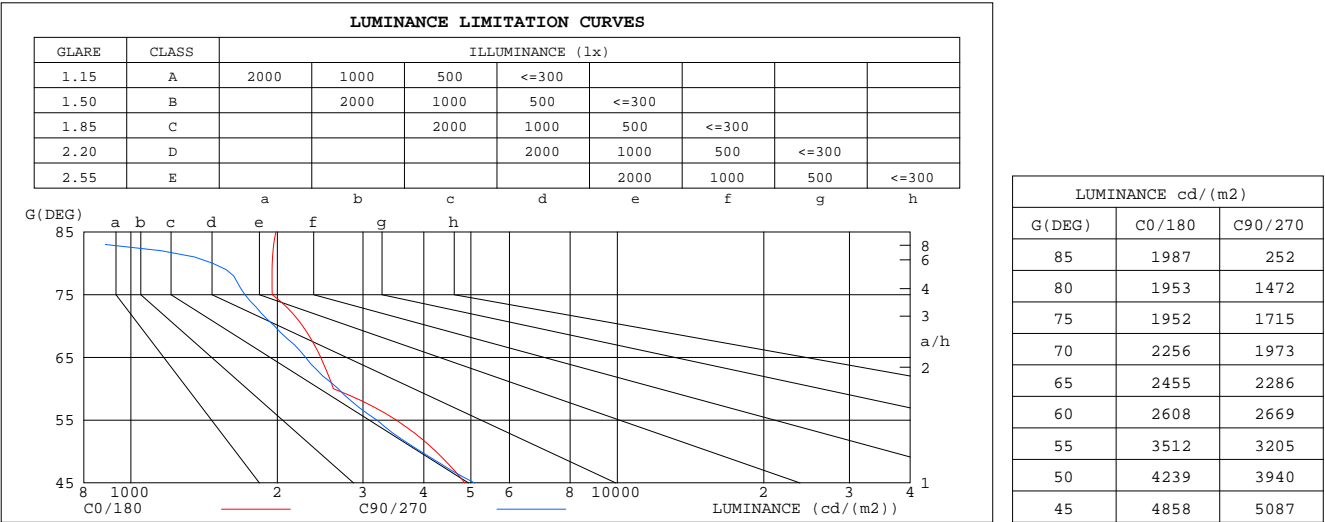
%lamp = 49.4%

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |



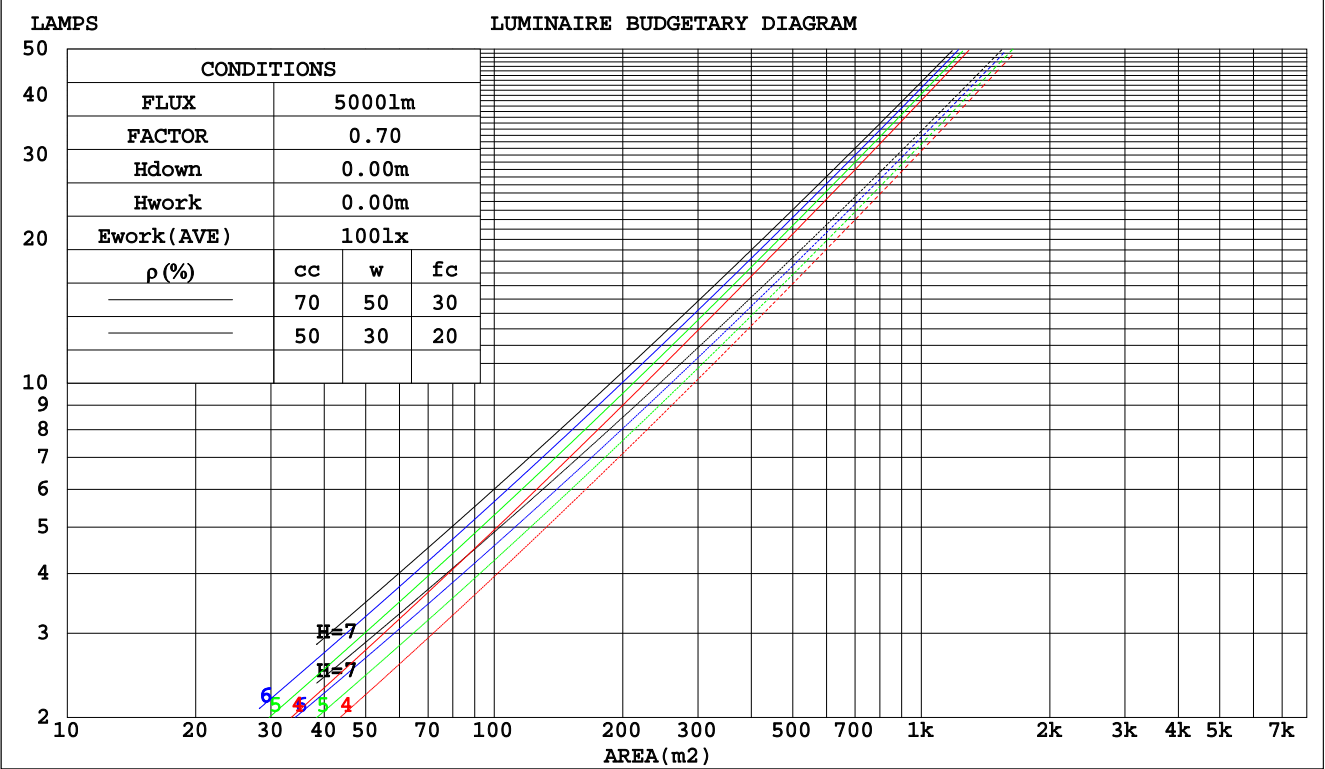
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 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 |
|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |



AREA(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:

WEC AND CCEC

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 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 | .208 | .118 | .037 | .186 | .106 | .034 | .146 | .084 | .027 | .108 | .062 | .020 | .074 | .043 | .014 | |
| 2.0 | .193 | .106 | .032 | .173 | .095 | .029 | .136 | .076 | .024 | .102 | .057 | .018 | .071 | .040 | .013 | |
| 3.0 | .179 | .095 | .028 | .161 | .086 | .026 | .128 | .069 | .021 | .097 | .053 | .016 | .068 | .038 | .012 | |
| 4.0 | .166 | .086 | .025 | .150 | .079 | .023 | .120 | .063 | .019 | .091 | .049 | .015 | .065 | .035 | .011 | |
| 5.0 | .155 | .079 | .023 | .141 | .072 | .021 | .112 | .059 | .017 | .086 | .046 | .014 | .062 | .033 | .010 | |
| 6.0 | .146 | .073 | .021 | .132 | .067 | .019 | .106 | .054 | .016 | .082 | .043 | .012 | .059 | .031 | .009 | |
| 7.0 | .137 | .068 | .019 | .124 | .062 | .018 | .100 | .051 | .015 | .078 | .040 | .012 | .057 | .029 | .009 | |
| 8.0 | .129 | .063 | .018 | .117 | .058 | .016 | .095 | .047 | .014 | .074 | .037 | .011 | .054 | .028 | .008 | |
| 9.0 | .122 | .059 | .016 | .111 | .054 | .015 | .090 | .045 | .013 | .071 | .035 | .010 | .052 | .026 | .008 | |
| 10.0 | .115 | .055 | .015 | .105 | .051 | .014 | .086 | .042 | .012 | .067 | .033 | .010 | .050 | .025 | .007 | |

| 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 | .567 | .567 | .567 | .485 | .485 | .485 | .331 | .331 | .331 | .190 | .190 | .190 | .061 | .061 | .061 | |
| 1.0 | .553 | .537 | .522 | .473 | .461 | .449 | .324 | .317 | .311 | .186 | .183 | .181 | .060 | .059 | .058 | |
| 2.0 | .541 | .515 | .492 | .464 | .443 | .425 | .318 | .306 | .297 | .183 | .178 | .174 | .059 | .058 | .057 | |
| 3.0 | .531 | .498 | .471 | .455 | .430 | .409 | .313 | .298 | .287 | .181 | .174 | .169 | .058 | .057 | .055 | |
| 4.0 | .522 | .485 | .457 | .448 | .419 | .397 | .308 | .292 | .279 | .178 | .171 | .165 | .057 | .056 | .054 | |
| 5.0 | .515 | .475 | .446 | .442 | .411 | .388 | .304 | .287 | .274 | .176 | .169 | .162 | .057 | .055 | .054 | |
| 6.0 | .508 | .467 | .437 | .436 | .404 | .381 | .301 | .283 | .269 | .175 | .166 | .160 | .056 | .054 | .053 | |
| 7.0 | .501 | .460 | .431 | .431 | .399 | .376 | .298 | .280 | .266 | .173 | .165 | .158 | .056 | .054 | .052 | |
| 8.0 | .496 | .454 | .426 | .427 | .394 | .372 | .295 | .277 | .264 | .172 | .163 | .157 | .056 | .054 | .052 | |
| 9.0 | .491 | .450 | .422 | .423 | .390 | .368 | .293 | .274 | .261 | .171 | .162 | .156 | .055 | .053 | .052 | |
| 10.0 | .486 | .446 | .419 | .419 | .387 | .366 | .291 | .272 | .260 | .169 | .161 | .155 | .055 | .053 | .051 | |

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 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 | 8.4 | 9.1 | 9.3 | 9.9 | 10.9 | 7.9 | 8.6 | 8.8 | 9.4 | 10.4 | |
| | 3H | 8.9 | 9.5 | 9.8 | 10.3 | 11.4 | 8.4 | 9.0 | 9.2 | 9.8 | 10.8 |
| | 4H | 9.1 | 9.7 | 10.0 | 10.5 | 11.6 | 8.5 | 9.1 | 9.4 | 9.9 | 11.0 |
| | 6H | 9.2 | 9.8 | 10.1 | 10.6 | 11.7 | 8.6 | 9.1 | 9.5 | 10.0 | 11.1 |
| | 8H | 9.3 | 9.8 | 10.2 | 10.7 | 11.8 | 8.6 | 9.1 | 9.5 | 10.0 | 11.1 |
| | 12H | 9.3 | 9.8 | 10.2 | 10.7 | 11.8 | 8.5 | 9.0 | 9.4 | 9.9 | 11.0 |
| 4H | 2H | 8.4 | 8.9 | 9.3 | 9.8 | 10.9 | 7.9 | 8.5 | 8.8 | 9.4 | 10.4 |
| | 3H | 9.0 | 9.5 | 9.9 | 10.4 | 11.5 | 8.5 | 9.0 | 9.4 | 9.9 | 11.0 |
| | 4H | 9.3 | 9.7 | 10.2 | 10.6 | 11.8 | 8.8 | 9.2 | 9.7 | 10.1 | 11.3 |
| | 6H | 9.5 | 9.9 | 10.5 | 10.9 | 12.1 | 8.9 | 9.3 | 9.9 | 10.2 | 11.5 |
| | 8H | 9.6 | 10.0 | 10.6 | 10.9 | 12.2 | 8.9 | 9.3 | 9.9 | 10.2 | 11.5 |
| | 12H | 9.7 | 10.0 | 10.7 | 11.0 | 12.2 | 8.8 | 9.2 | 9.8 | 10.1 | 11.4 |
| 8H | 4H | 9.2 | 9.6 | 10.2 | 10.5 | 11.8 | 8.7 | 9.1 | 9.7 | 10.0 | 11.3 |
| | 6H | 9.6 | 9.9 | 10.6 | 10.8 | 12.1 | 9.0 | 9.3 | 10.0 | 10.3 | 11.5 |
| | 8H | 9.8 | 10.0 | 10.8 | 11.0 | 12.3 | 9.0 | 9.3 | 10.0 | 10.3 | 11.6 |
| | 12H | 9.9 | 10.1 | 10.9 | 11.1 | 12.4 | 9.0 | 9.2 | 10.0 | 10.2 | 11.5 |
| 12H | 4H | 9.1 | 9.5 | 10.1 | 10.4 | 11.7 | 8.7 | 9.0 | 9.7 | 10.0 | 11.2 |
| | 6H | 9.5 | 9.8 | 10.6 | 10.8 | 12.1 | 9.0 | 9.2 | 10.0 | 10.2 | 11.5 |
| | 8H | 9.7 | 10.0 | 10.8 | 11.0 | 12.3 | 9.0 | 9.2 | 10.0 | 10.2 | 11.5 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 0.7 / - 0.9 | | | | | + 0.7 / - 0.9 | | | | | |
| 1.5H | + 1.4 / - 0.5 | | | | | + 1.2 / - 0.6 | | | | | |
| 2.0H | + 0.9 / - 0.9 | | | | | + 1.3 / - 0.8 | | | | | |

CIE Pub.117, 2169 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.7$)
Area: 0.0141692 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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

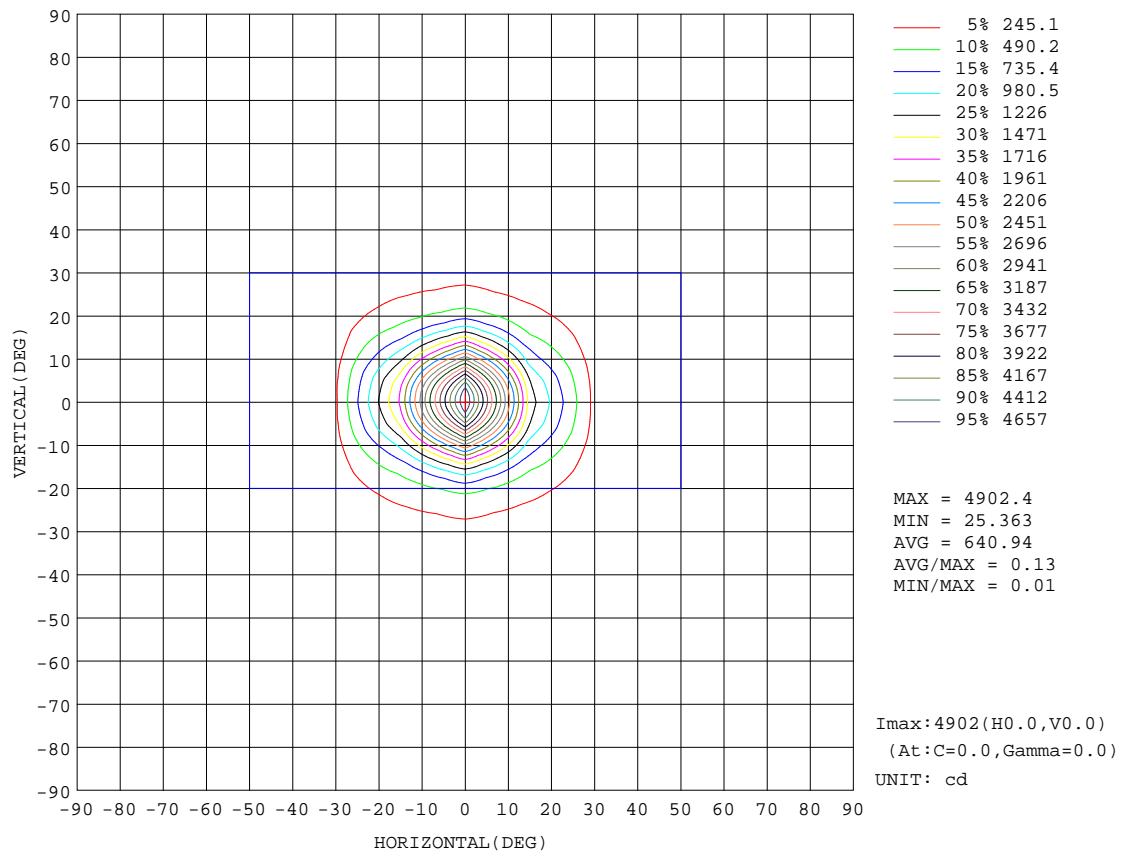
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 59 | 51 | 46 | 57 | 49 | 45 | 52 | 46 | 43 | 36 |
| 0.80 | 67 | 59 | 54 | 64 | 57 | 52 | 58 | 53 | 49 | 40 |
| 1.00 | 73 | 65 | 59 | 69 | 62 | 57 | 62 | 57 | 53 | 42 |
| 1.25 | 79 | 70 | 65 | 74 | 67 | 62 | 66 | 61 | 57 | 44 |
| 1.50 | 83 | 75 | 69 | 77 | 71 | 66 | 68 | 64 | 61 | 46 |
| 2.00 | 88 | 81 | 76 | 82 | 76 | 72 | 71 | 68 | 65 | 47 |
| 2.50 | 91 | 85 | 80 | 85 | 80 | 76 | 73 | 70 | 67 | 47 |
| 3.00 | 94 | 88 | 84 | 87 | 82 | 79 | 75 | 72 | 70 | 48 |
| 4.00 | 97 | 92 | 89 | 90 | 86 | 83 | 77 | 75 | 73 | 49 |
| 5.00 | 99 | 95 | 92 | 92 | 89 | 86 | 79 | 77 | 75 | 50 |
| 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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

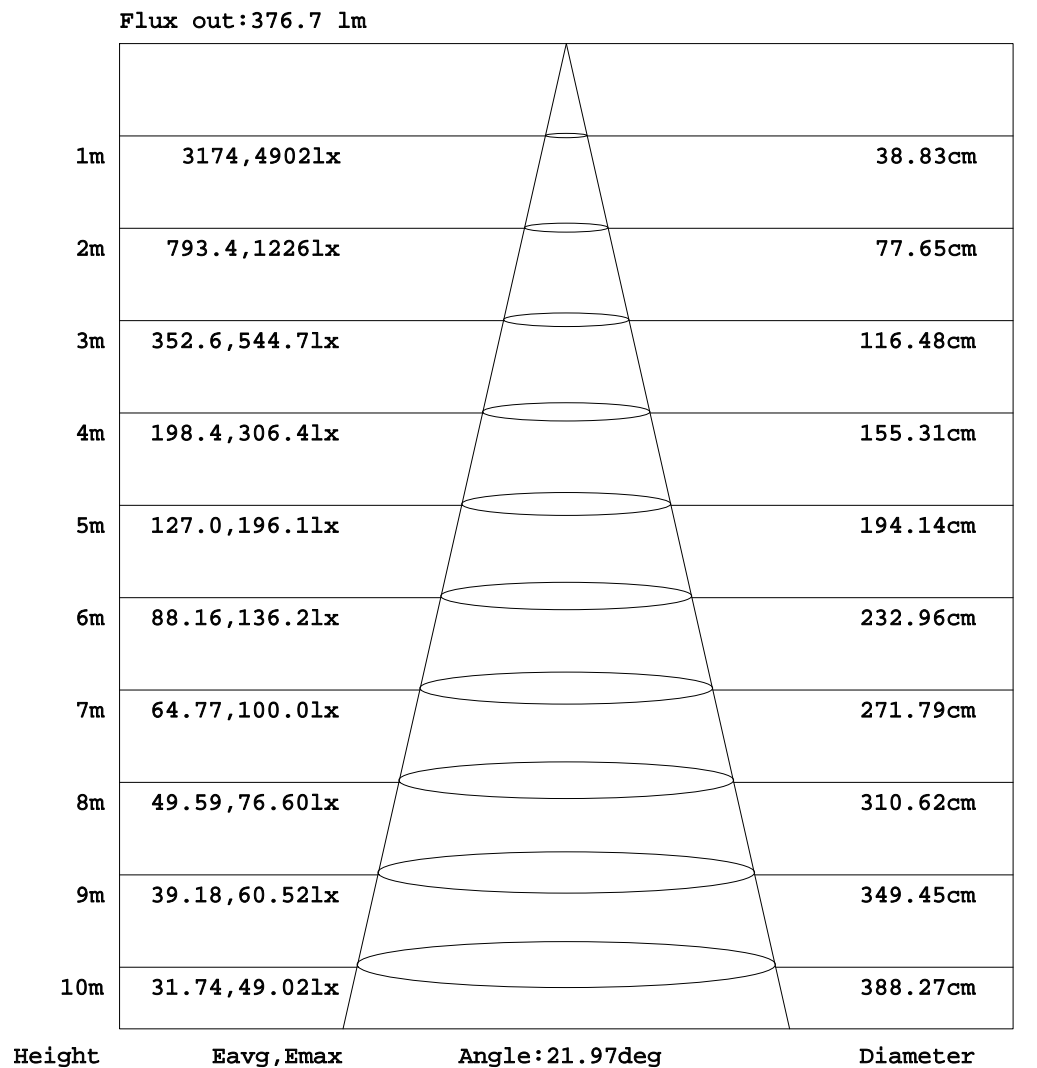


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |



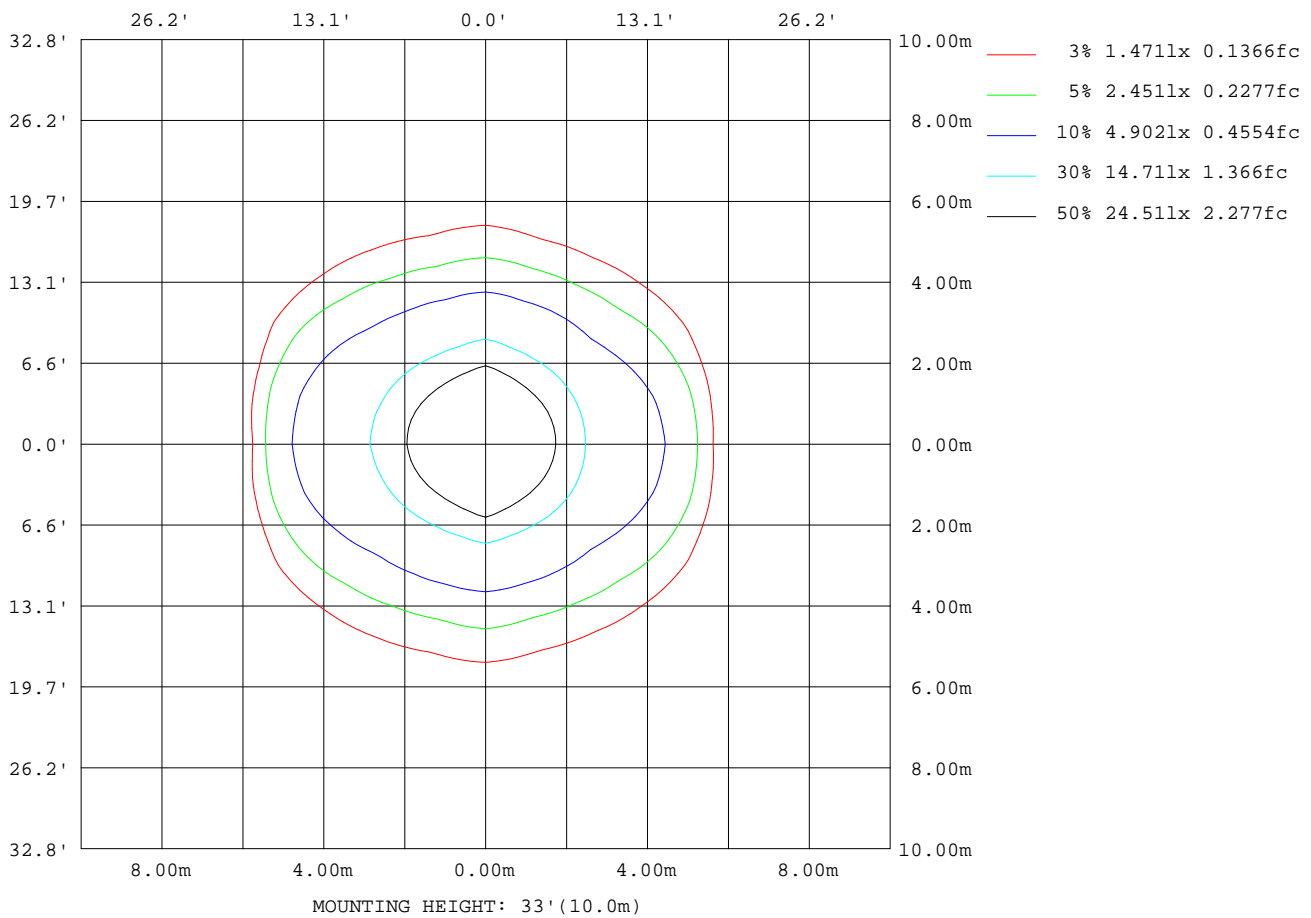
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

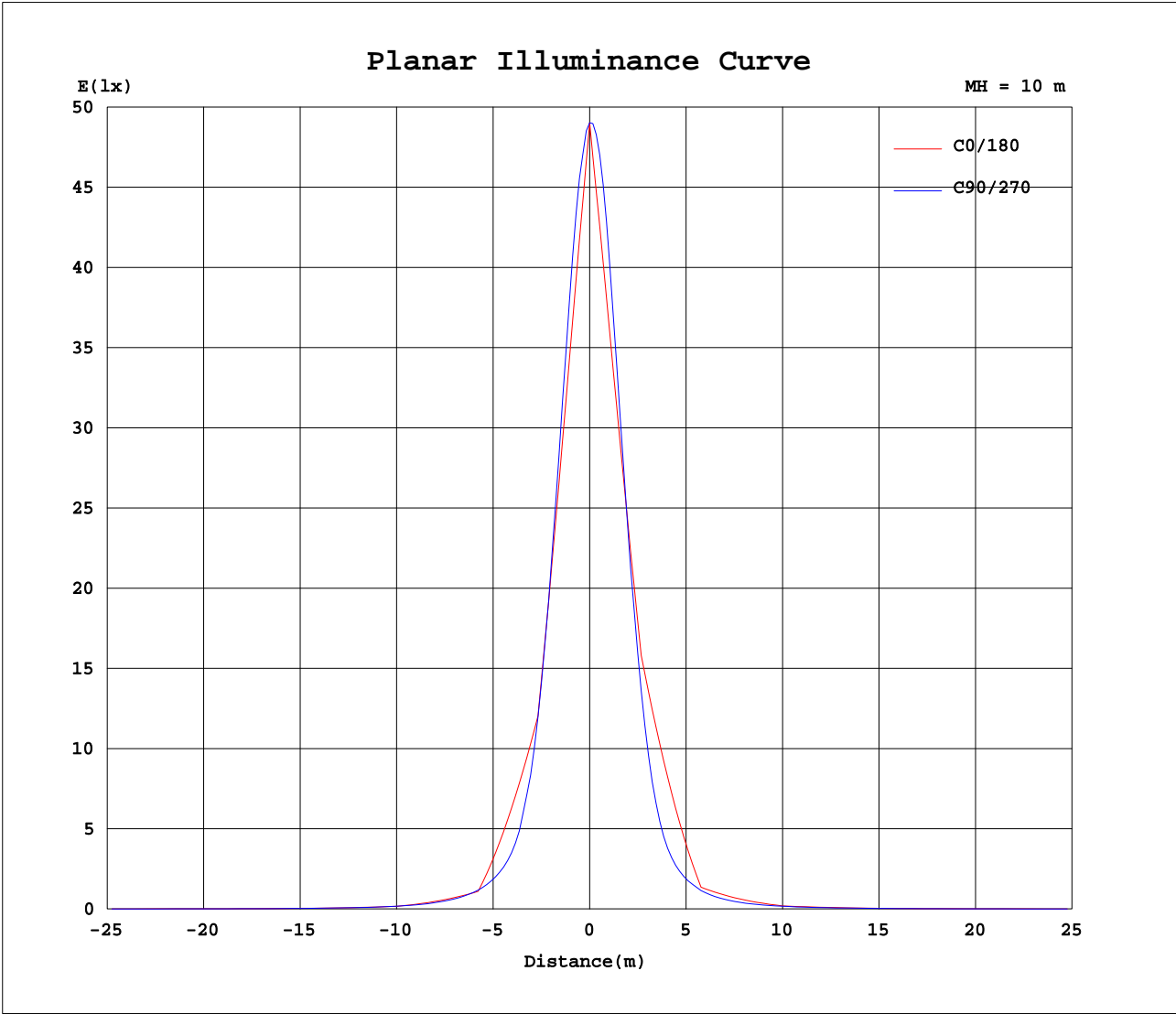
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 2628 |
| L_0~180(75)av | 2112 |
| L_0~180(85)av | 2132 |
| L_90~270(65)av | 2328 |
| L_90~270(75)av | 1804 |
| L_90~270(85)av | 459 |
| L_45(65)av | 2448 |
| L_45(75)av | 2035 |
| L_45(85)av | 1897 |

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | | | | | | | | | | | | | | | | | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | | | | | | | | | | TYPE:LED | | | | | WEIGHT: | | | | |
| SPEC.: | | | | | | | | | | DIM.: | | | | | SERIAL No.: | | | | |
| MFR.: LEDVANCE LLC | | | | | | | | | | SUR.: | | | | | Shielding Angle: | | | | |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 | 4902 |
| 5 | 3713 | 3690 | 3677 | 3705 | 3772 | 3904 | 4119 | 3932 | 3827 | 3788 | 3785 | 3818 | 3853 | 3873 | 3896 | 3934 | 4005 | 4132 | 4334 |
| 10 | 2524 | 2479 | 2423 | 2360 | 2342 | 2416 | 2638 | 2444 | 2406 | 2473 | 2601 | 2719 | 2804 | 2804 | 2751 | 2661 | 2617 | 2671 | 2880 |
| 15 | 1335 | 1343 | 1338 | 1281 | 1210 | 1204 | 1327 | 1223 | 1257 | 1380 | 1536 | 1676 | 1754 | 1761 | 1686 | 1552 | 1429 | 1392 | 1509 |
| 20 | 946 | 884 | 739 | 607 | 572 | 553 | 589 | 564 | 602 | 683 | 873 | 1109 | 1239 | 1185 | 998 | 797 | 684 | 623 | 658 |
| 25 | 558 | 525 | 433 | 341 | 298 | 283 | 308 | 291 | 318 | 378 | 499 | 646 | 725 | 697 | 573 | 426 | 342 | 303 | 317 |
| 30 | 170 | 210 | 226 | 201 | 181 | 170 | 182 | 175 | 194 | 219 | 257 | 249 | 210 | 263 | 284 | 234 | 200 | 175 | 178 |
| 35 | 130 | 127 | 114 | 119 | 115 | 109 | 115 | 112 | 122 | 131 | 129 | 147 | 158 | 153 | 132 | 133 | 121 | 109 | 110 |
| 40 | 89.2 | 88.7 | 82.8 | 73.1 | 74.5 | 72.2 | 75.1 | 74.4 | 79.0 | 80.5 | 92.4 | 102 | 107 | 105 | 94.2 | 80.0 | 78.3 | 72.2 | 71.5 |
| 45 | 48.7 | 52.7 | 56.2 | 52.6 | 50.1 | 49.8 | 51.0 | 51.5 | 53.2 | 56.7 | 61.8 | 59.5 | 56.3 | 60.7 | 63.1 | 57.4 | 52.8 | 50.8 | 49.7 |
| 50 | 38.6 | 38.0 | 36.0 | 37.1 | 35.3 | 35.0 | 35.9 | 36.3 | 37.6 | 39.7 | 39.1 | 42.5 | 44.5 | 43.3 | 40.2 | 40.4 | 37.6 | 35.9 | 35.6 |
| 55 | 28.5 | 28.5 | 27.6 | 25.5 | 25.7 | 25.1 | 26.0 | 26.0 | 27.4 | 27.3 | 30.1 | 31.7 | 32.7 | 32.3 | 30.9 | 27.8 | 27.6 | 26.1 | 25.9 |
| 60 | 18.5 | 19.2 | 19.9 | 19.3 | 18.7 | 18.3 | 18.9 | 18.8 | 19.8 | 20.7 | 21.9 | 21.3 | 21.0 | 21.6 | 22.5 | 21.2 | 20.2 | 19.2 | 19.1 |
| 65 | 14.7 | 14.6 | 13.9 | 14.0 | 13.7 | 13.4 | 13.7 | 13.8 | 14.3 | 15.1 | 15.4 | 16.1 | 16.8 | 16.4 | 15.9 | 15.6 | 15.0 | 14.1 | 14.2 |
| 70 | 10.9 | 10.9 | 10.4 | 9.98 | 9.97 | 9.54 | 9.56 | 9.77 | 10.4 | 10.7 | 11.6 | 12.1 | 12.6 | 12.5 | 12.2 | 11.3 | 10.9 | 9.99 | 10.2 |
| 75 | 7.16 | 7.29 | 7.07 | 6.86 | 6.82 | 6.49 | 6.29 | 6.53 | 7.06 | 7.63 | 7.92 | 8.12 | 8.33 | 8.49 | 8.64 | 8.29 | 7.64 | 6.65 | 6.94 |
| 80 | 4.81 | 4.80 | 4.43 | 4.00 | 3.74 | 3.59 | 3.62 | 3.92 | 4.25 | 4.76 | 4.98 | 5.33 | 5.57 | 5.60 | 5.59 | 5.40 | 4.68 | 3.54 | 4.30 |
| 85 | 2.45 | 2.44 | 2.25 | 2.04 | 1.48 | 0.59 | 0.31 | 0.79 | 1.94 | 2.40 | 2.51 | 2.69 | 2.81 | 2.83 | 2.83 | 2.72 | 2.17 | 0.57 | 0.82 |
| 90 | 0.10 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.12 | 0.11 | 0.09 | 0.07 | 0.06 | 0.05 | 0.05 | 0.06 | 0.07 | 0.10 | 0.13 | 0.16 | 0.04 |
| 95 | 2.47 | 2.38 | 2.26 | 2.15 | 1.89 | 0.87 | 0.57 | 0.92 | 1.81 | 2.20 | 2.41 | 2.50 | 2.49 | 2.38 | 2.20 | 2.05 | 1.65 | 0.75 | 0.41 |
| 100 | 4.83 | 4.67 | 4.45 | 4.22 | 4.07 | 3.85 | 3.78 | 4.08 | 4.13 | 4.38 | 4.77 | 4.95 | 4.93 | 4.70 | 4.34 | 4.02 | 3.71 | 3.60 | 3.44 |
| 105 | 7.19 | 7.13 | 7.18 | 7.05 | 6.75 | 6.48 | 6.43 | 6.79 | 7.04 | 7.19 | 7.47 | 7.50 | 7.37 | 7.14 | 6.93 | 6.73 | 6.32 | 6.10 | 6.02 |
| 110 | 11.4 | 11.2 | 10.8 | 10.1 | 9.99 | 9.69 | 9.73 | 9.89 | 10.2 | 10.2 | 10.7 | 11.0 | 11.0 | 10.6 | 10.2 | 9.68 | 9.48 | 9.22 | 9.29 |
| 115 | 15.6 | 15.2 | 14.6 | 14.4 | 13.9 | 13.6 | 13.8 | 13.8 | 13.9 | 14.2 | 14.0 | 14.4 | 14.7 | 14.1 | 13.6 | 13.6 | 13.4 | 13.2 | 13.3 |
| 120 | 19.9 | 20.3 | 20.9 | 19.9 | 19.1 | 18.5 | 18.8 | 18.4 | 18.8 | 19.2 | 19.6 | 18.8 | 18.4 | 18.4 | 19.2 | 18.7 | 18.3 | 17.8 | 18.2 |
| 125 | 31.5 | 30.6 | 28.9 | 26.2 | 26.2 | 25.2 | 25.3 | 24.7 | 25.2 | 24.9 | 26.6 | 27.2 | 27.4 | 26.7 | 26.1 | 24.4 | 24.8 | 24.2 | 24.6 |
| 130 | 43.1 | 41.2 | 37.7 | 38.3 | 35.9 | 34.6 | 34.4 | 33.5 | 33.9 | 35.4 | 34.2 | 35.8 | 36.4 | 35.2 | 33.6 | 35.0 | 33.6 | 33.3 | 33.8 |
| 135 | 54.7 | 58.2 | 60.0 | 54.6 | 50.5 | 48.9 | 48.1 | 47.0 | 47.3 | 49.3 | 52.9 | 49.7 | 45.5 | 48.7 | 51.8 | 49.0 | 47.0 | 46.8 | 47.7 |
| 140 | 107 | 101 | 90.3 | 76.5 | 75.1 | 69.6 | 69.6 | 67.0 | 69.7 | 67.9 | 78.2 | 85.5 | 86.8 | 83.3 | 76.3 | 67.3 | 68.8 | 66.4 | 69.0 |
| 145 | 160 | 148 | 128 | 129 | 118 | 106 | 108 | 102 | 108 | 115 | 109 | 124 | 128 | 120 | 106 | 112 | 106 | 99.9 | 106 |
| 150 | 212 | 251 | 267 | 227 | 195 | 173 | 178 | 166 | 175 | 203 | 236 | 212 | 169 | 204 | 220 | 195 | 173 | 163 | 176 |
| 155 | 692 | 648 | 528 | 403 | 336 | 303 | 318 | 292 | 309 | 365 | 473 | 561 | 582 | 532 | 433 | 342 | 298 | 285 | 314 |
| 160 | 1171 | 1099 | 912 | 737 | 661 | 618 | 662 | 604 | 630 | 678 | 815 | 954 | 996 | 908 | 748 | 617 | 588 | 578 | 627 |
| 165 | 1651 | 1635 | 1558 | 1451 | 1367 | 1349 | 1475 | 1334 | 1331 | 1380 | 1429 | 1434 | 1409 | 1377 | 1338 | 1270 | 1208 | 1219 | 1352 |
| 170 | 2633 | 2622 | 2570 | 2497 | 2470 | 2540 | 2753 | 2521 | 2427 | 2424 | 2460 | 2479 | 2471 | 2417 | 2355 | 2290 | 2274 | 2346 | 2557 |
| 175 | 3615 | 3627 | 3647 | 3683 | 3753 | 3877 | 4070 | 3860 | 3719 | 3633 | 3582 | 3551 | 3534 | 3510 | 3500 | 3521 | 3586 | 3711 | 3909 |
| 180 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 | 4597 |

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:0.1289A P:15.22W PF:0.9840 Freq:60.00Hz Lamp Flux:2169.14x1 lm | | |
| NAME: Optic/CCT/Wattage/Up & Down Light | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: LEDVANCE LLC | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 4902 | 4902 | 4902 | 4902 | 4902 | | | | | | | | | | | | | | |
| 5 | 4096 | 3936 | 3834 | 3773 | 3736 | | | | | | | | | | | | | | |
| 10 | 2616 | 2502 | 2482 | 2514 | 2529 | | | | | | | | | | | | | | |
| 15 | 1345 | 1316 | 1342 | 1364 | 1353 | | | | | | | | | | | | | | |
| 20 | 596 | 607 | 611 | 732 | 884 | | | | | | | | | | | | | | |
| 25 | 289 | 298 | 335 | 426 | 520 | | | | | | | | | | | | | | |
| 30 | 167 | 173 | 195 | 220 | 203 | | | | | | | | | | | | | | |
| 35 | 103 | 109 | 115 | 109 | 122 | | | | | | | | | | | | | | |
| 40 | 68.4 | 70.9 | 69.2 | 78.9 | 85.4 | | | | | | | | | | | | | | |
| 45 | 48.7 | 48.3 | 50.3 | 53.6 | 51.2 | | | | | | | | | | | | | | |
| 50 | 34.7 | 34.9 | 35.9 | 34.8 | 37.1 | | | | | | | | | | | | | | |
| 55 | 25.3 | 25.7 | 24.9 | 26.8 | 27.8 | | | | | | | | | | | | | | |
| 60 | 18.8 | 19.0 | 19.1 | 19.5 | 18.8 | | | | | | | | | | | | | | |
| 65 | 14.2 | 14.0 | 14.0 | 13.9 | 14.3 | | | | | | | | | | | | | | |
| 70 | 10.6 | 10.3 | 10.0 | 10.5 | 10.7 | | | | | | | | | | | | | | |
| 75 | 7.76 | 7.26 | 7.07 | 7.22 | 7.15 | | | | | | | | | | | | | | |
| 80 | 5.38 | 4.58 | 4.33 | 4.58 | 4.71 | | | | | | | | | | | | | | |
| 85 | 2.63 | 2.25 | 2.21 | 2.34 | 2.40 | | | | | | | | | | | | | | |
| 90 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | | | | | | | | | | | | | | |
| 95 | 0.68 | 1.72 | 2.11 | 2.30 | 2.47 | | | | | | | | | | | | | | |
| 100 | 3.55 | 3.89 | 4.14 | 4.51 | 4.84 | | | | | | | | | | | | | | |
| 105 | 6.18 | 6.62 | 6.96 | 7.24 | 7.38 | | | | | | | | | | | | | | |
| 110 | 9.34 | 9.84 | 10.0 | 10.8 | 11.4 | | | | | | | | | | | | | | |
| 115 | 13.3 | 13.7 | 14.2 | 14.5 | 15.4 | | | | | | | | | | | | | | |
| 120 | 18.0 | 18.8 | 19.8 | 20.9 | 20.5 | | | | | | | | | | | | | | |
| 125 | 24.5 | 25.7 | 26.2 | 29.1 | 30.8 | | | | | | | | | | | | | | |
| 130 | 33.9 | 35.3 | 38.4 | 38.1 | 41.5 | | | | | | | | | | | | | | |
| 135 | 48.4 | 50.6 | 55.2 | 60.9 | 58.9 | | | | | | | | | | | | | | |
| 140 | 69.7 | 74.8 | 77.8 | 92.4 | 104 | | | | | | | | | | | | | | |
| 145 | 105 | 118 | 131 | 131 | 152 | | | | | | | | | | | | | | |
| 150 | 171 | 195 | 228 | 271 | 256 | | | | | | | | | | | | | | |
| 155 | 299 | 333 | 408 | 533 | 647 | | | | | | | | | | | | | | |
| 160 | 599 | 642 | 739 | 915 | 1090 | | | | | | | | | | | | | | |
| 165 | 1251 | 1282 | 1400 | 1531 | 1616 | | | | | | | | | | | | | | |
| 170 | 2380 | 2344 | 2396 | 2494 | 2577 | | | | | | | | | | | | | | |
| 175 | 3731 | 3627 | 3580 | 3572 | 3589 | | | | | | | | | | | | | | |
| 180 | 4597 | 4597 | 4597 | 4597 | 4597 | | | | | | | | | | | | | | |

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: