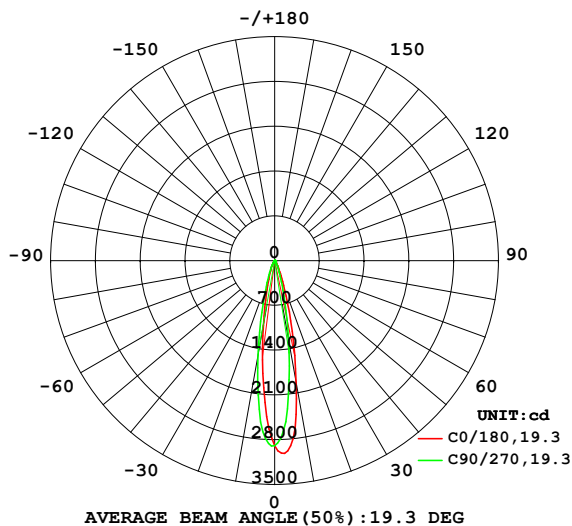


LUMINAIRE PHOTOMETRIC TEST REPORT

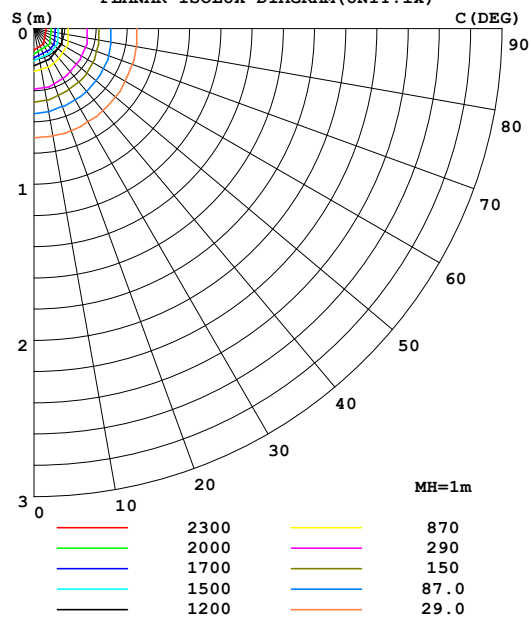
| | | |
|--------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 88.85 lm/W |
|------------------|---------|-----------------------|--------|-------------------|----------|-----------------|
| MODEL | | I _{max} (cd) | 3016 | S/MH(C0/180) | 0.26 | |
| NOMINAL POWER(W) | 6 | LOR(%) | 100.0 | S/MH(C90/270) | 0.35 | |
| RATED VOLTAGE(V) | 240 | TOTAL FLUX(lm) | 517.89 | η UP,DN(C0-180) | 0.0,51.2 | |
| NOMINAL FLUX(lm) | 517.892 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,48.8 | |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.00 | |
| TEST VOLTAGE(V) | 240.3 | η down(%) | 100.0 | CIBSE SHR MAX | 0.30 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 1947 | 1655 | 1273 | 1061 | 1030 | 1168 | 1502 | 1858 | 0- 10 | 198.8 | 198.8 | 38.4,38.4 |
| 20 | 414.9 | 340.1 | 261.2 | 232.2 | 237.4 | 259.8 | 315.2 | 391.2 | 10- 20 | 195.0 | 393.8 | 76,76 |
| 30 | 102.8 | 91.02 | 73.32 | 65.08 | 68.98 | 74.80 | 84.46 | 95.80 | 20- 30 | 74.68 | 468.4 | 90.5,90.5 |
| 40 | 26.77 | 24.59 | 20.06 | 18.28 | 19.43 | 20.61 | 21.75 | 24.19 | 30- 40 | 27.81 | 496.2 | 95.8,95.8 |
| 50 | 8.528 | 8.513 | 8.092 | 7.954 | 8.110 | 8.101 | 7.999 | 8.120 | 40- 50 | 10.13 | 506.4 | 97.8,97.8 |
| 60 | 5.314 | 5.315 | 4.996 | 4.929 | 5.190 | 5.148 | 4.985 | 5.023 | 50- 60 | 5.715 | 512.1 | 98.9,98.9 |
| 70 | 3.306 | 3.128 | 2.774 | 2.465 | 2.453 | 2.690 | 2.976 | 3.137 | 60- 70 | 3.974 | 516.1 | 99.6,99.6 |
| 80 | 0.7718 | 0.4237 | 0.3179 | 0.2460 | 0.2533 | 0.2933 | 0.3891 | 0.6429 | 70- 80 | 1.623 | 517.7 | 100,100 |
| 90 | 0.1068 | 0.0453 | 0.0154 | 0.0064 | 0.0055 | 0.0051 | 0.0128 | 0.0861 | 80- 90 | 0.2005 | 517.9 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 502.35 lm

%lum = 97.0%

%lamp = 97.0%

Conical surface Flux(120deg): 512.09 lm

%lum = 98.9%

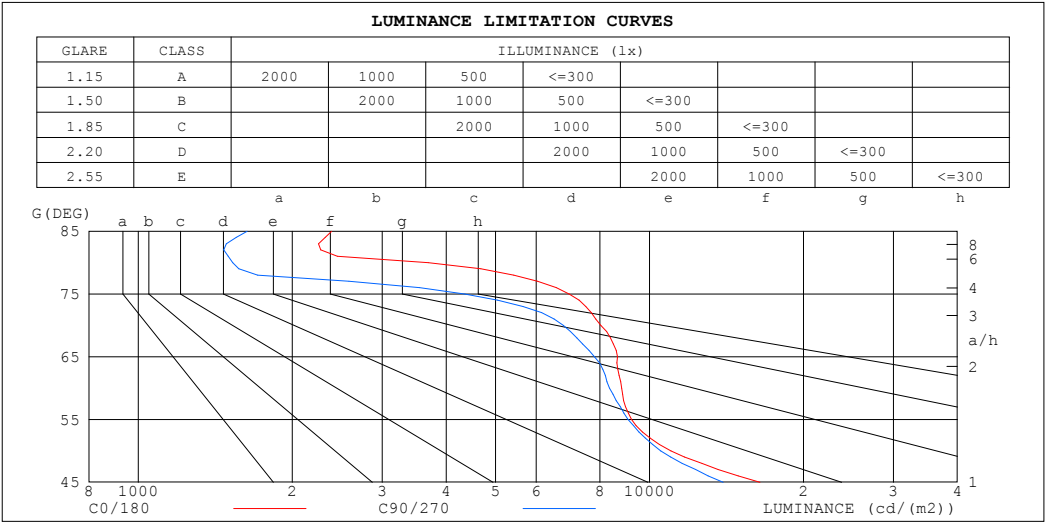
%lamp = 98.9%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 2387 | 1632 |
| 80 | 3690 | 1530 |
| 75 | 6961 | 4354 |
| 70 | 8026 | 6779 |
| 65 | 8660 | 7802 |
| 60 | 8824 | 8351 |
| 55 | 9227 | 9075 |
| 50 | 11015 | 10521 |
| 45 | 16437 | 13941 |

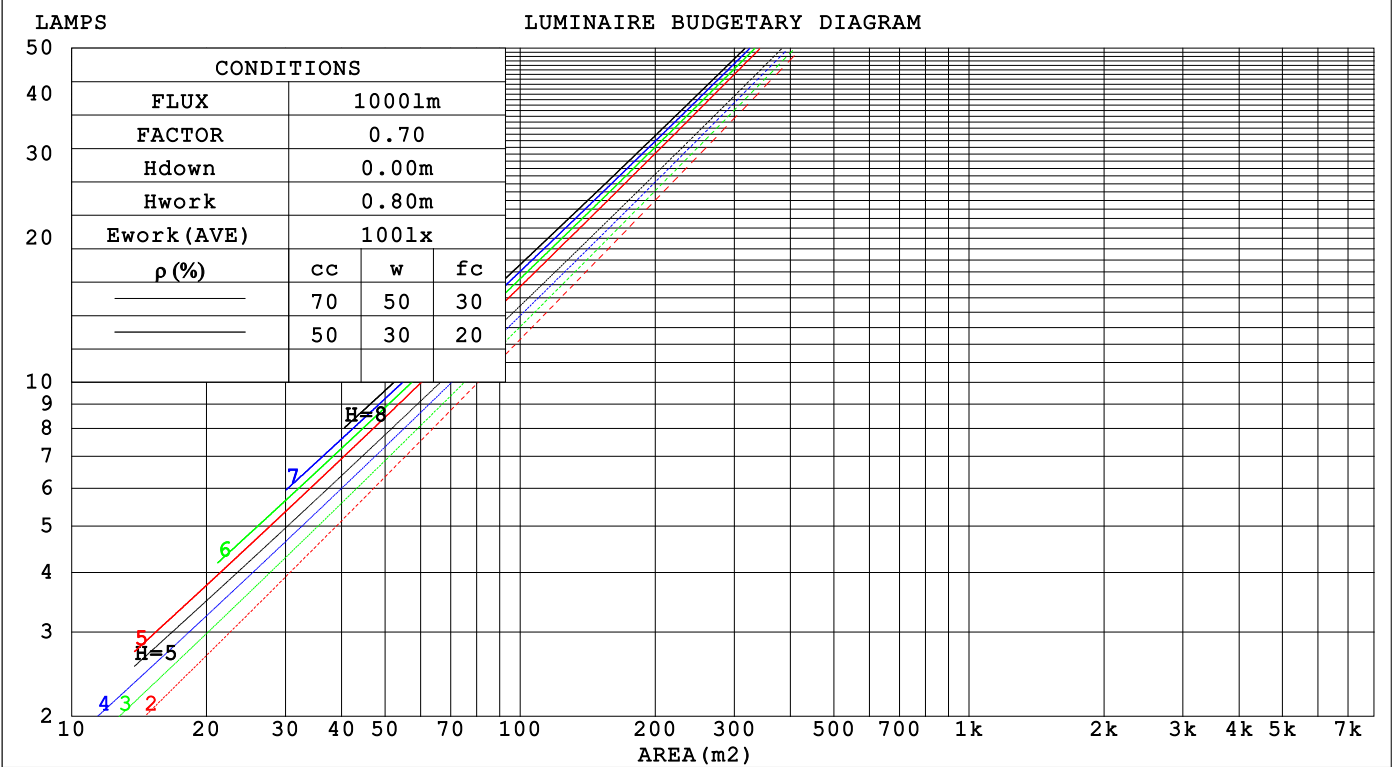
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|-------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 | | |
| Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | 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 | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0 | 1.13 | 1.11 | 1.09 | 1.10 | 1.09 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 | .99 | .99 | .98 | .96 |
| 2.0 | 1.07 | 1.04 | 1.01 | 1.05 | 1.03 | 1.00 | 1.02 | .00 | .98 | .99 | .98 | .96 | .97 | .95 | .94 | .92 |
| 3.0 | 1.02 | .98 | .95 | 1.01 | .97 | .95 | .98 | .96 | .93 | .96 | .94 | .92 | .94 | .92 | .90 | .89 |
| 4.0 | .98 | .94 | .91 | .97 | .93 | .90 | .95 | .92 | .89 | .93 | .90 | .88 | .91 | .89 | .87 | .86 |
| 5.0 | .94 | .90 | .87 | .93 | .89 | .86 | .92 | .88 | .86 | .90 | .87 | .85 | .89 | .86 | .84 | .83 |
| 6.0 | .91 | .87 | .84 | .90 | .86 | .83 | .89 | .85 | .83 | .88 | .85 | .82 | .86 | .84 | .82 | .81 |
| 7.0 | .88 | .84 | .81 | .87 | .83 | .80 | .86 | .83 | .80 | .85 | .82 | .80 | .84 | .81 | .79 | .78 |
| 8.0 | .85 | .81 | .78 | .85 | .81 | .78 | .84 | .80 | .78 | .83 | .80 | .77 | .82 | .79 | .77 | .76 |
| 9.0 | .83 | .79 | .76 | .82 | .78 | .76 | .82 | .78 | .75 | .81 | .78 | .75 | .80 | .77 | .75 | .74 |
| 10.0 | .80 | .76 | .74 | .80 | .76 | .74 | .79 | .76 | .73 | .79 | .76 | .73 | .78 | .75 | .73 | .72 |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|-------------------------------------------------------|------------|------------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 | | Lamp Flux:517.892x1 lm |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | 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 | .143 | .081 | .026 | .136 | .078 | .025 | .124 | .071 | .023 | .112 | .065 | .021 | .102 | .059 | .019 | |
| 2.0 | .133 | .073 | .022 | .127 | .070 | .022 | .117 | .065 | .020 | .108 | .060 | .019 | .099 | .056 | .018 | |
| 3.0 | .124 | .066 | .020 | .119 | .064 | .019 | .111 | .060 | .018 | .103 | .056 | .017 | .095 | .053 | .016 | |
| 4.0 | .116 | .060 | .018 | .112 | .059 | .017 | .105 | .055 | .017 | .098 | .053 | .016 | .092 | .050 | .015 | |
| 5.0 | .109 | .055 | .016 | .105 | .054 | .016 | .099 | .052 | .015 | .093 | .049 | .015 | .088 | .047 | .014 | |
| 6.0 | .103 | .051 | .015 | .100 | .050 | .015 | .094 | .048 | .014 | .089 | .046 | .014 | .085 | .045 | .013 | |
| 7.0 | .097 | .048 | .014 | .095 | .047 | .013 | .090 | .046 | .013 | .086 | .044 | .013 | .082 | .042 | .012 | |
| 8.0 | .092 | .045 | .013 | .090 | .044 | .013 | .086 | .043 | .012 | .082 | .042 | .012 | .079 | .040 | .012 | |
| 9.0 | .088 | .043 | .012 | .086 | .042 | .012 | .083 | .041 | .012 | .079 | .040 | .011 | .076 | .039 | .011 | |
| 10.0 | .084 | .040 | .011 | .082 | .040 | .011 | .079 | .039 | .011 | .076 | .038 | .011 | .073 | .037 | .011 | |

| 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 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .169 | .158 | .148 | .144 | .135 | .127 | .099 | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .017 | |
| 2.0 | .151 | .133 | .117 | .129 | .114 | .101 | .089 | .079 | .071 | .051 | .046 | .041 | .016 | .015 | .014 | |
| 3.0 | .136 | .113 | .095 | .117 | .098 | .082 | .080 | .068 | .058 | .046 | .040 | .034 | .015 | .013 | .011 | |
| 4.0 | .124 | .098 | .078 | .106 | .085 | .068 | .073 | .059 | .048 | .042 | .035 | .028 | .014 | .011 | .009 | |
| 5.0 | .114 | .086 | .065 | .097 | .074 | .057 | .067 | .052 | .040 | .039 | .030 | .024 | .013 | .010 | .008 | |
| 6.0 | .105 | .076 | .055 | .090 | .066 | .048 | .062 | .046 | .034 | .036 | .027 | .020 | .012 | .009 | .007 | |
| 7.0 | .097 | .068 | .047 | .083 | .059 | .041 | .058 | .041 | .029 | .034 | .024 | .017 | .011 | .008 | .006 | |
| 8.0 | .090 | .061 | .041 | .078 | .053 | .035 | .054 | .037 | .025 | .031 | .022 | .015 | .010 | .007 | .005 | |
| 9.0 | .085 | .055 | .035 | .073 | .048 | .031 | .051 | .034 | .022 | .029 | .020 | .013 | .010 | .007 | .004 | |
| 10.0 | .080 | .050 | .031 | .069 | .044 | .027 | .048 | .031 | .019 | .028 | .018 | .011 | .009 | .006 | .004 | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|-----------------------------------------------------------------|------------------|------|------|------|------------------------|----------------|------|------------------|------|------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | | | | | | | | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 | | | | | Lamp Flux:517.892x1 lm | | | | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: Norming lighting | | | | | SUR.: 40mm | | | 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 | 14.8 | 15.5 | 15.0 | 15.7 | 15.8 | 14.0 | 14.7 | 14.2 | 14.8 | 15.0 |
| 3H | 15.4 | 16.0 | 15.6 | 16.2 | 16.4 | 14.6 | 15.2 | 14.8 | 15.4 | 15.6 |
| 4H | 15.7 | 16.3 | 15.9 | 16.5 | 16.7 | 14.7 | 15.3 | 15.0 | 15.6 | 15.8 |
| 6H | 15.7 | 16.3 | 16.0 | 16.5 | 16.8 | 14.7 | 15.3 | 15.0 | 15.5 | 15.7 |
| 8H | 15.7 | 16.2 | 16.0 | 16.5 | 16.7 | 14.7 | 15.2 | 15.0 | 15.5 | 15.7 |
| 12H | 15.7 | 16.2 | 16.0 | 16.4 | 16.7 | 14.6 | 15.2 | 14.9 | 15.4 | 15.7 |
| 4H 2H | 15.0 | 15.6 | 15.2 | 15.8 | 16.0 | 14.2 | 14.8 | 14.5 | 15.0 | 15.3 |
| 3H | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 | 15.0 | 15.5 | 15.3 | 15.8 | 16.1 |
| 4H | 16.0 | 16.5 | 16.4 | 16.8 | 17.1 | 15.2 | 15.7 | 15.5 | 16.0 | 16.3 |
| 6H | 16.1 | 16.6 | 16.5 | 16.9 | 17.2 | 15.2 | 15.6 | 15.5 | 15.9 | 16.3 |
| 8H | 16.1 | 16.5 | 16.5 | 16.9 | 17.2 | 15.1 | 15.5 | 15.5 | 15.9 | 16.2 |
| 12H | 16.1 | 16.4 | 16.5 | 16.8 | 17.2 | 15.1 | 15.5 | 15.5 | 15.8 | 16.2 |
| 8H 4H | 16.0 | 16.4 | 16.4 | 16.8 | 17.2 | 15.3 | 15.7 | 15.6 | 16.0 | 16.4 |
| 6H | 16.1 | 16.5 | 16.6 | 16.9 | 17.3 | 15.2 | 15.6 | 15.6 | 15.9 | 16.4 |
| 8H | 16.1 | 16.4 | 16.6 | 16.8 | 17.3 | 15.2 | 15.5 | 15.6 | 15.9 | 16.3 |
| 12H | 16.1 | 16.3 | 16.6 | 16.8 | 17.3 | 15.1 | 15.4 | 15.6 | 15.8 | 16.3 |
| 12H 4H | 16.0 | 16.4 | 16.4 | 16.7 | 17.1 | 15.2 | 15.6 | 15.6 | 15.9 | 16.3 |
| 6H | 16.1 | 16.4 | 16.5 | 16.8 | 17.2 | 15.2 | 15.5 | 15.6 | 15.9 | 16.3 |
| 8H | 16.1 | 16.3 | 16.5 | 16.8 | 17.2 | 15.1 | 15.4 | 15.6 | 15.8 | 16.3 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 1.5 / - 1.5 | | | | | + 1.0 / - 1.4 | | | | |
| 1.5H | + 2.8 / - 1.4 | | | | | + 1.9 / - 1.2 | | | | |
| 2.0H | + 1.4 / - 0.6 | | | | | + 1.2 / - 0.8 | | | | |

CIE Pub.117, 517.9 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -2.3$)
Area: 0.0012 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |

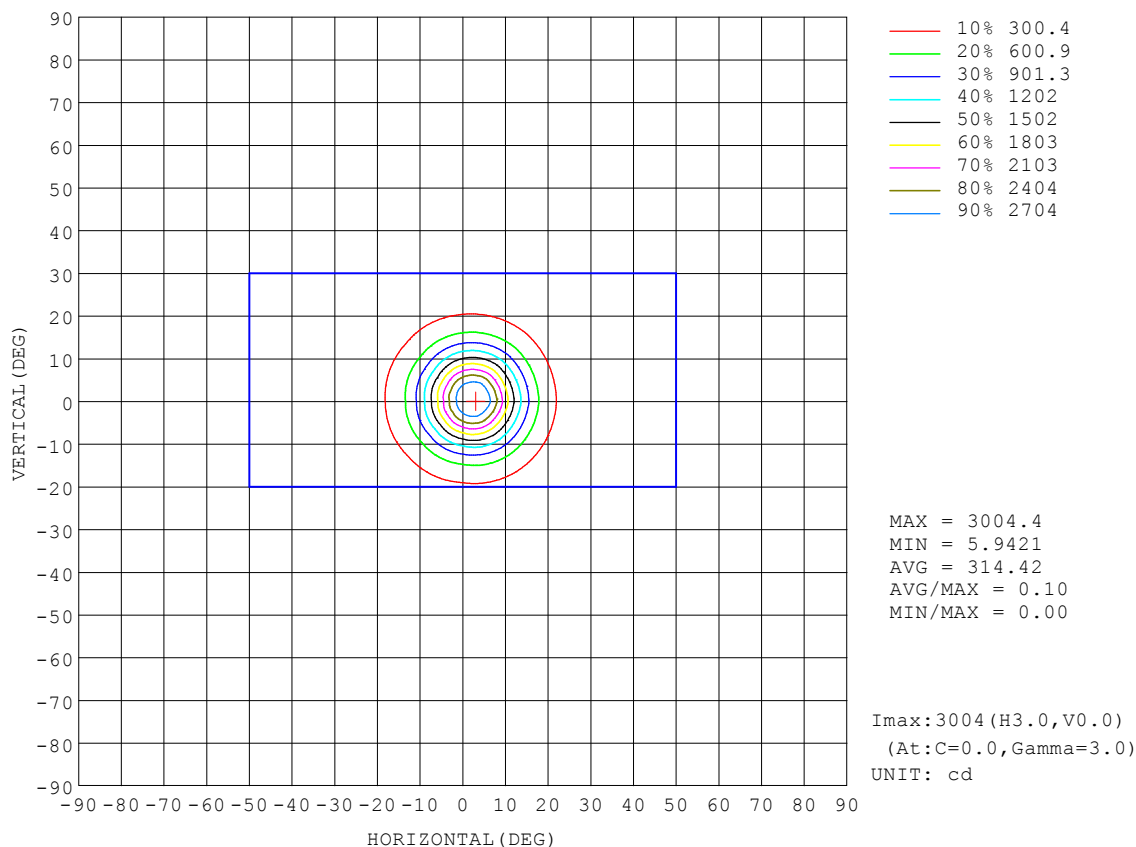
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 89 | 83 | 79 | 88 | 83 | 79 | 88 | 82 | 79 | 76 |
| 0.80 | 96 | 91 | 87 | 95 | 90 | 87 | 94 | 90 | 87 | 83 |
| 1.00 | 100 | 95 | 91 | 99 | 94 | 91 | 98 | 94 | 91 | 87 |
| 1.25 | 104 | 99 | 96 | 103 | 98 | 95 | 101 | 97 | 95 | 90 |
| 1.50 | 107 | 102 | 99 | 105 | 101 | 98 | 103 | 100 | 97 | 93 |
| 2.00 | 109 | 105 | 102 | 108 | 104 | 101 | 105 | 102 | 100 | 95 |
| 2.50 | 111 | 107 | 104 | 109 | 106 | 103 | 106 | 103 | 101 | 95 |
| 3.00 | 112 | 109 | 106 | 110 | 107 | 105 | 107 | 105 | 103 | 97 |
| 4.00 | 114 | 111 | 109 | 112 | 110 | 108 | 108 | 107 | 105 | 98 |
| 5.00 | 115 | 113 | 111 | 113 | 111 | 110 | 109 | 108 | 107 | 99 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |

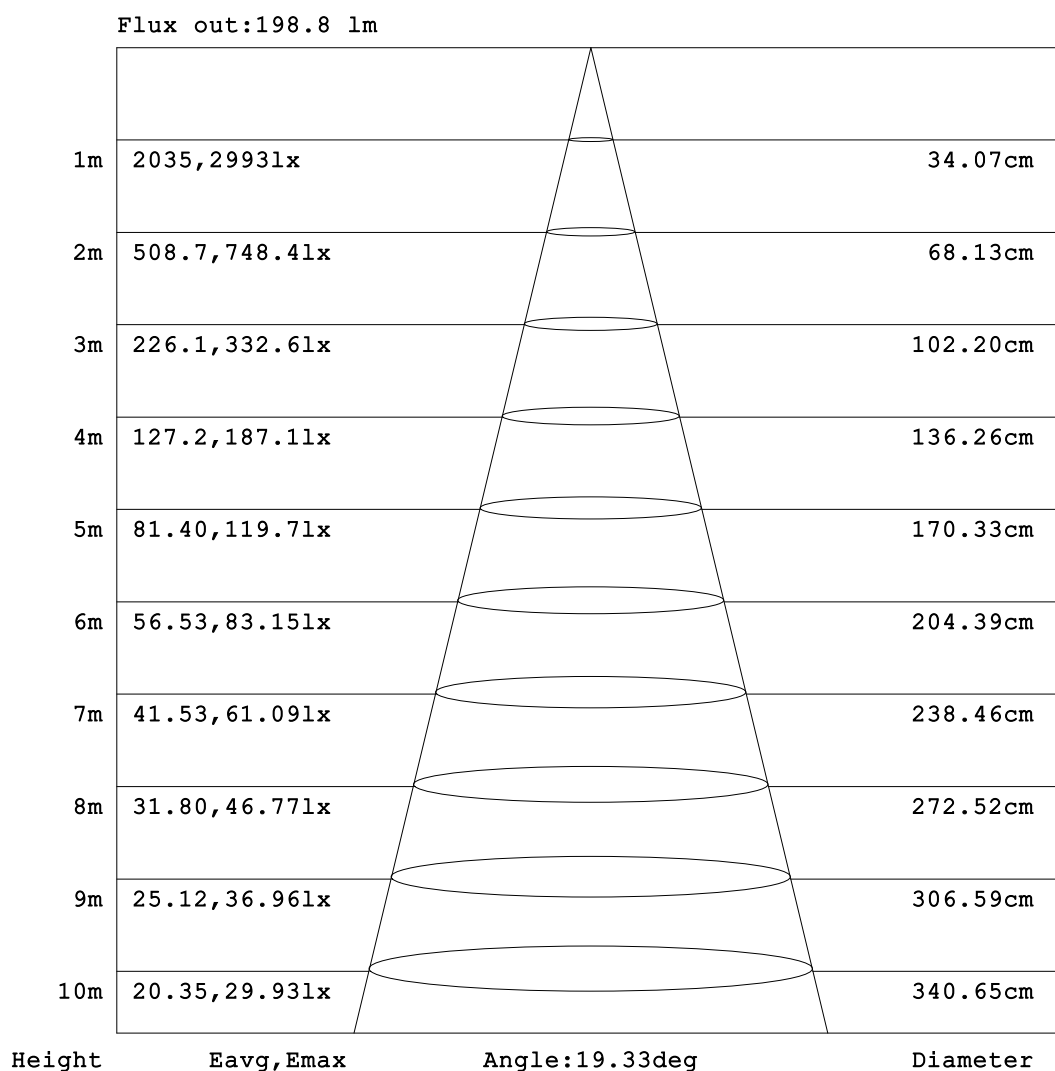


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |



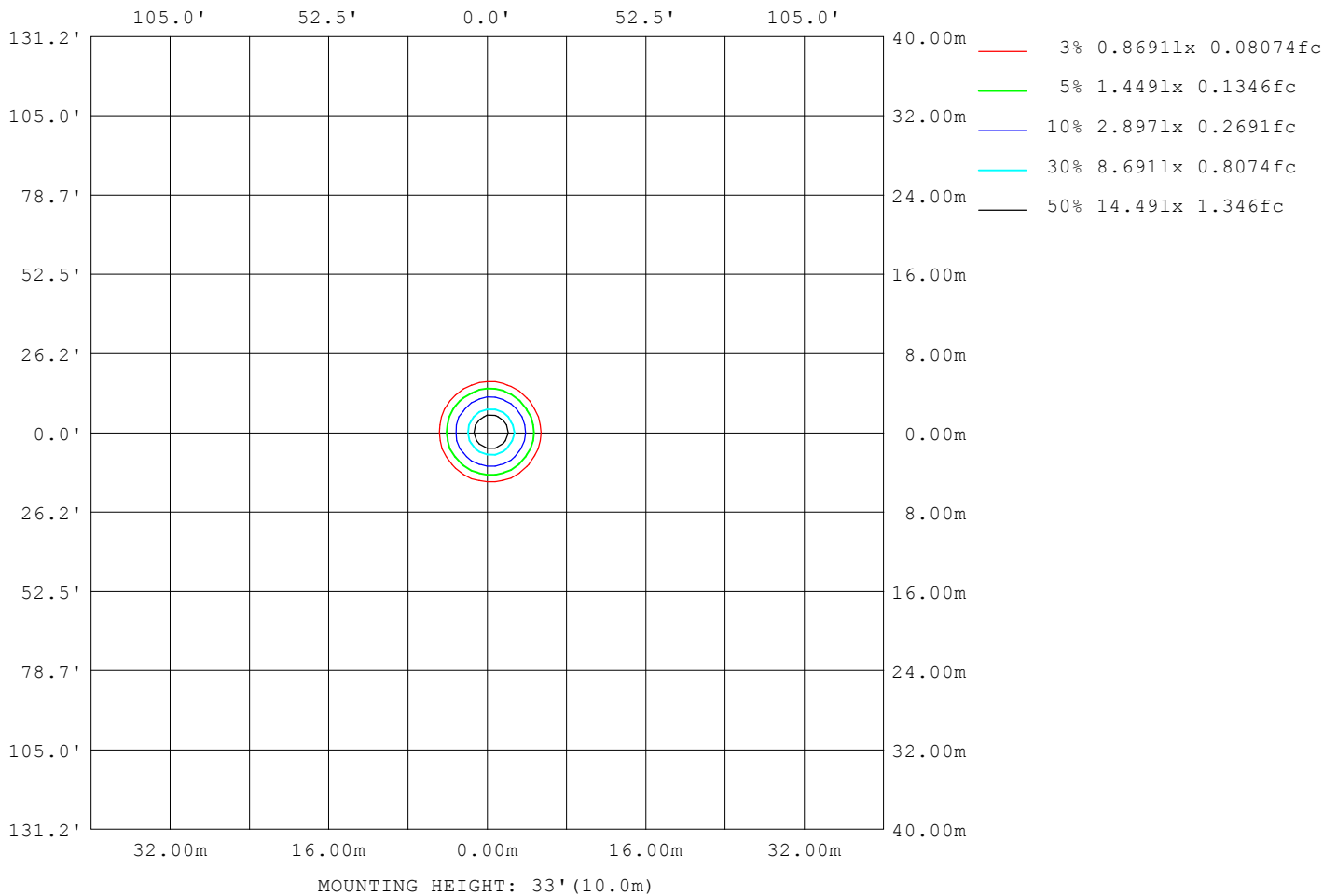
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz | | |
| UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|-----------------------------------------------------------------------------------------------------------------------|------------|------------------|
| Test:U:240.4V I:0.0276A P:5.8W PF:0.8775 Freq:49.99Hz UTHDi:0.18% ITHDi:23.52% KDisp:0.9021 Lamp Flux:517.892x1 lm | | |
| NAME: MD16-06-XX-01 3000K RA90 24D THU | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 40mm | Shielding Angle: |

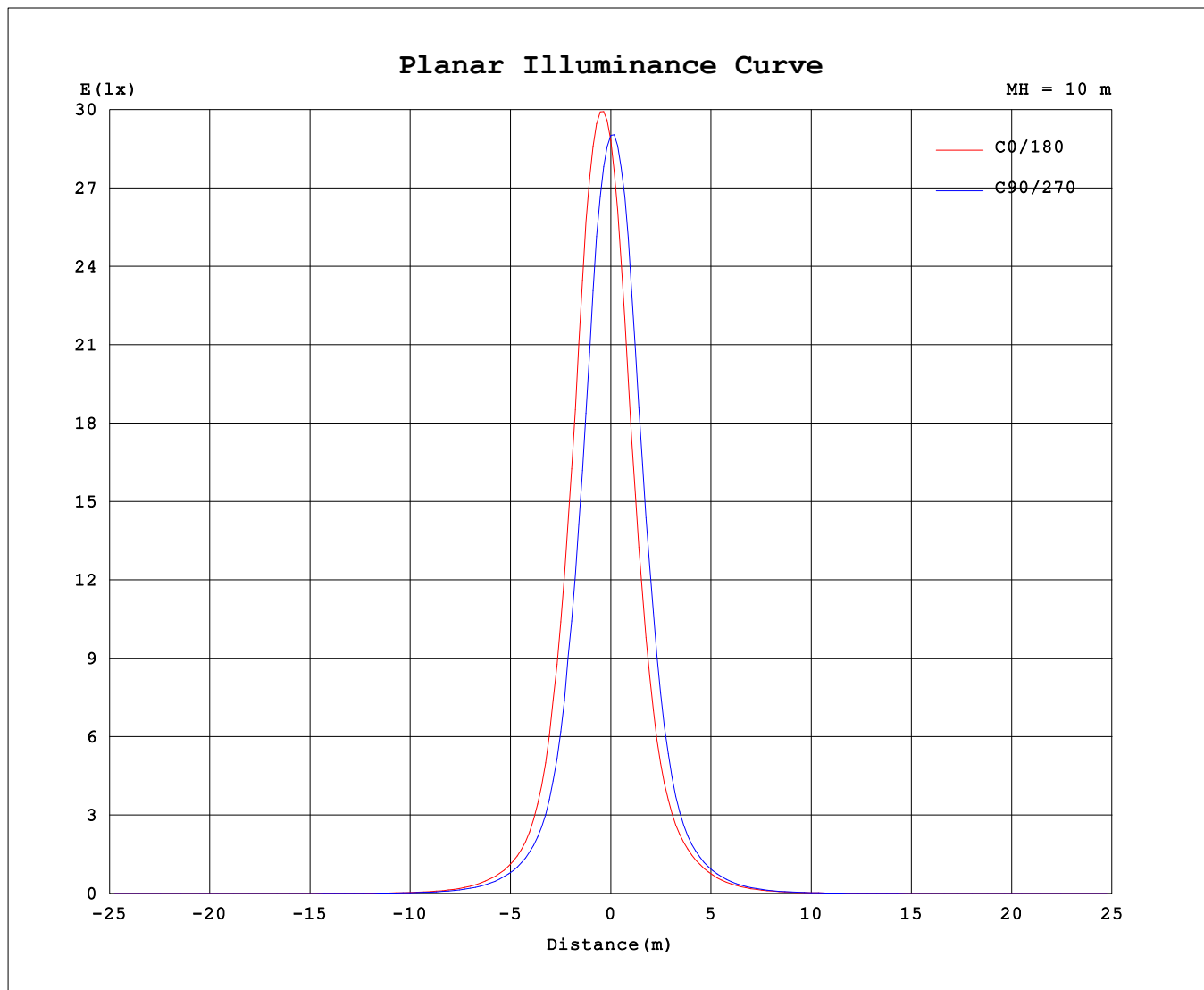
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 8099 |
| L_0~180 (75) av | 4734 |
| L_0~180 (85) av | 1673 |
| L_90~270 (65) av | 7871 |
| L_90~270 (75) av | 4955 |
| L_90~270 (85) av | 1779 |
| L_45 (65) av | 7936 |
| L_45 (75) av | 4831 |
| L_45 (85) av | 1657 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

| G/C | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | 225.0 | 270.0 | 315.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 2893 | 2893 | 2893 | 2893 | 2893 | 2893 | 2893 | 2893 |
| 3.0 | 3016 | 2888 | 2671 | 2491 | 2440 | 2562 | 2783 | 2970 |
| 6.0 | 2795 | 2533 | 2101 | 1825 | 1772 | 1943 | 2334 | 2710 |
| 9.0 | 2191 | 1861 | 1463 | 1229 | 1192 | 1343 | 1699 | 2078 |
| 12.0 | 1517 | 1271 | 958.1 | 774.0 | 751.4 | 874.1 | 1146 | 1438 |
| 15.0 | 976.6 | 794.0 | 571.6 | 479.1 | 471.7 | 536.6 | 708.9 | 921.9 |
| 18.0 | 584.9 | 475.2 | 351.1 | 304.1 | 307.3 | 339.1 | 432.1 | 548.8 |
| 21.0 | 351.6 | 290.9 | 228.0 | 205.8 | 211.9 | 228.9 | 271.5 | 331.2 |
| 24.0 | 222.5 | 193.4 | 155.5 | 140.6 | 147.5 | 158.8 | 181.9 | 210.7 |
| 27.0 | 150.3 | 132.8 | 107.3 | 96.34 | 101.5 | 110.2 | 124.8 | 142.1 |
| 30.0 | 102.8 | 91.02 | 73.32 | 65.08 | 68.98 | 74.80 | 84.46 | 95.80 |
| 33.0 | 69.00 | 61.20 | 49.44 | 43.76 | 46.28 | 50.78 | 55.93 | 64.09 |
| 36.0 | 45.79 | 41.18 | 33.23 | 29.78 | 31.41 | 34.18 | 37.13 | 41.89 |
| 39.0 | 30.52 | 27.96 | 22.69 | 20.74 | 21.65 | 23.34 | 24.85 | 27.72 |
| 42.0 | 20.43 | 19.30 | 15.89 | 14.87 | 15.42 | 16.28 | 16.86 | 18.51 |
| 45.0 | 14.00 | 13.44 | 11.79 | 11.33 | 11.47 | 11.87 | 12.12 | 12.89 |
| 48.0 | 10.21 | 10.00 | 9.269 | 9.002 | 9.132 | 9.262 | 9.258 | 9.571 |
| 51.0 | 7.928 | 7.952 | 7.639 | 7.519 | 7.700 | 7.644 | 7.534 | 7.585 |
| 54.0 | 6.661 | 6.744 | 6.544 | 6.444 | 6.695 | 6.644 | 6.422 | 6.411 |
| 57.0 | 5.888 | 5.934 | 5.711 | 5.607 | 5.907 | 5.870 | 5.627 | 5.630 |
| 60.0 | 5.314 | 5.315 | 4.996 | 4.929 | 5.190 | 5.148 | 4.985 | 5.023 |
| 63.0 | 4.739 | 4.688 | 4.403 | 4.242 | 4.407 | 4.484 | 4.425 | 4.433 |
| 66.0 | 4.215 | 4.062 | 3.706 | 3.480 | 3.532 | 3.676 | 3.830 | 3.948 |
| 69.0 | 3.559 | 3.349 | 3.003 | 2.740 | 2.743 | 2.943 | 3.184 | 3.350 |
| 72.0 | 2.865 | 2.680 | 2.275 | 1.868 | 1.817 | 2.122 | 2.518 | 2.742 |
| 75.0 | 2.170 | 1.905 | 1.348 | 0.8608 | 0.7703 | 1.156 | 1.729 | 2.080 |
| 78.0 | 1.359 | 1.015 | 0.4259 | 0.3215 | 0.3307 | 0.3807 | 0.8297 | 1.244 |
| 81.0 | 0.4616 | 0.3595 | 0.2804 | 0.2136 | 0.2185 | 0.2542 | 0.3398 | 0.4091 |
| 84.0 | 0.2923 | 0.2384 | 0.1944 | 0.1441 | 0.1477 | 0.1687 | 0.2284 | 0.2735 |
| 87.0 | 0.1987 | 0.1624 | 0.0945 | 0.0080 | 0.0071 | 0.0565 | 0.1600 | 0.1828 |
| 90.0 | 0.1068 | 0.0453 | 0.0154 | 0.0064 | 0.0055 | 0.0051 | 0.0128 | 0.0861 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
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Operators: DAMIN
Test Date: 2024-08-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks: