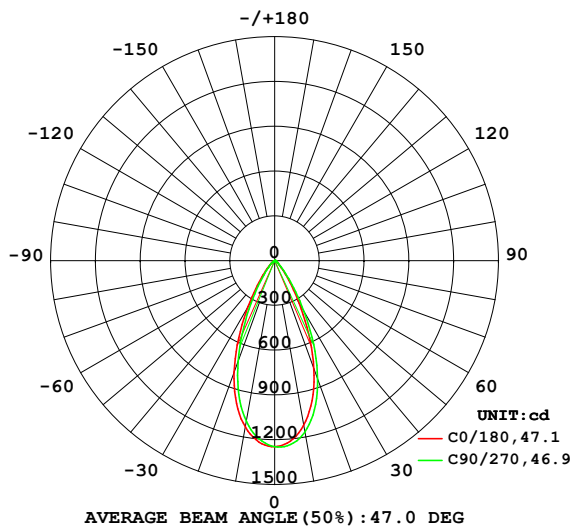


LUMINAIRE PHOTOMETRIC TEST REPORT

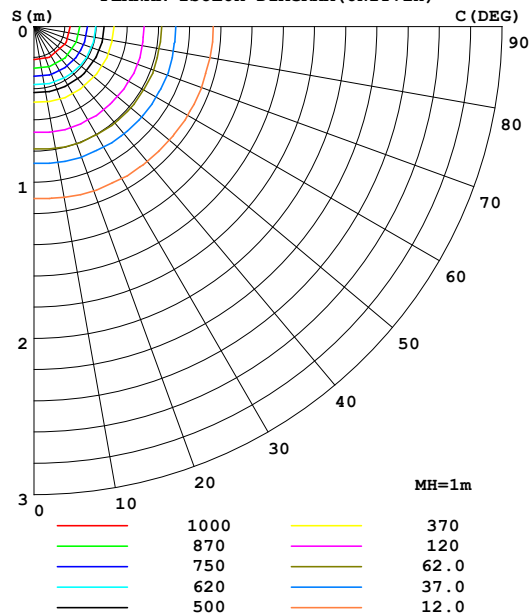
| | | |
|--|------------|------------------|
| Test:U:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 91.19 lm/W |
|------------------|---------|-----------------------|--------|-------------------|--|-----------------|
| MODEL | | I _{max} (cd) | 1249 | S/MH(C0/180) | | 0.75 |
| NOMINAL POWER(W) | 9 | LOR(%) | 100.0 | S/MH(C90/270) | | 0.70 |
| RATED VOLTAGE(V) | 240 | TOTAL FLUX(lm) | 836.89 | η UP,DN(C0-180) | | 0.0,52.6 |
| NOMINAL FLUX(lm) | 836.886 | CIE CLASS | DIRECT | η UP,DN(C180-360) | | 0.0,47.4 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | | 0.75 |
| TEST VOLTAGE(V) | 240.27 | η down (%) | 100.0 | CIBSE SHR MAX | | 0.75 |

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: 2024-03-16

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 | 1121 | 1148 | 1167 | 1163 | 1133 | 1103 | 1094 | 1098 | 0- 10 | 113.4 | 113.4 | 13.5,13.5 |
| 20 | 769.1 | 818.0 | 843.9 | 844.5 | 795.8 | 741.0 | 718.1 | 729.2 | 10- 20 | 270.3 | 383.7 | 45.8,45.8 |
| 30 | 332.7 | 376.9 | 397.5 | 397.6 | 360.7 | 316.0 | 294.2 | 299.9 | 20- 30 | 252.6 | 636.3 | 76,76 |
| 40 | 97.86 | 114.0 | 119.5 | 119.8 | 109.2 | 94.28 | 85.23 | 87.06 | 30- 40 | 125.2 | 761.5 | 91,91 |
| 50 | 31.05 | 35.10 | 37.13 | 36.78 | 34.13 | 30.24 | 28.30 | 28.40 | 40- 50 | 46.01 | 807.5 | 96.5,96.5 |
| 60 | 11.45 | 12.80 | 13.85 | 13.63 | 12.51 | 11.35 | 10.84 | 10.80 | 50- 60 | 18.33 | 825.9 | 98.7,98.7 |
| 70 | 4.178 | 4.750 | 5.165 | 5.077 | 4.604 | 4.221 | 3.987 | 3.876 | 60- 70 | 7.627 | 833.5 | 99.6,99.6 |
| 80 | 1.269 | 1.461 | 1.598 | 1.612 | 1.418 | 1.187 | 1.155 | 1.107 | 70- 80 | 2.831 | 836.3 | 99.9,99.9 |
| 90 | 0.0234 | 0.0145 | 0.0270 | 0.0193 | 0.0173 | 0.0206 | 0.0219 | 0.0209 | 80- 90 | 0.5561 | 836.9 | 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): 790.08 lm

%lum = 94.4%

%lamp = 94.4%

Conical surface Flux(120deg): 825.87 lm

%lum = 98.7%

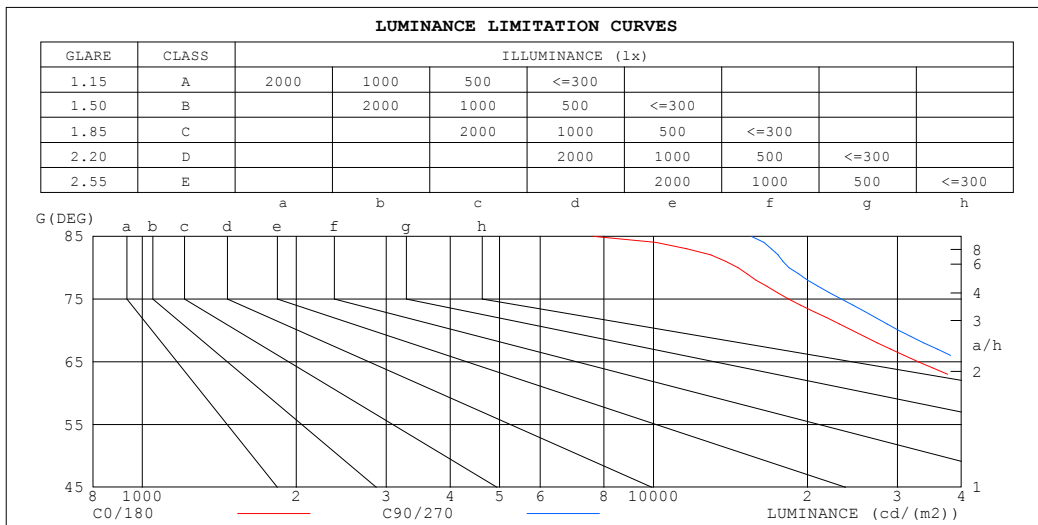
%lamp = 98.7%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 7612 | 15515 |
| 80 | 14633 | 18395 |
| 75 | 18387 | 23305 |
| 70 | 24463 | 30188 |
| 65 | 32959 | 40588 |
| 60 | 45847 | 55384 |
| 55 | 65260 | 77832 |
| 50 | 96734 | 115452 |
| 45 | 152623 | 183577 |

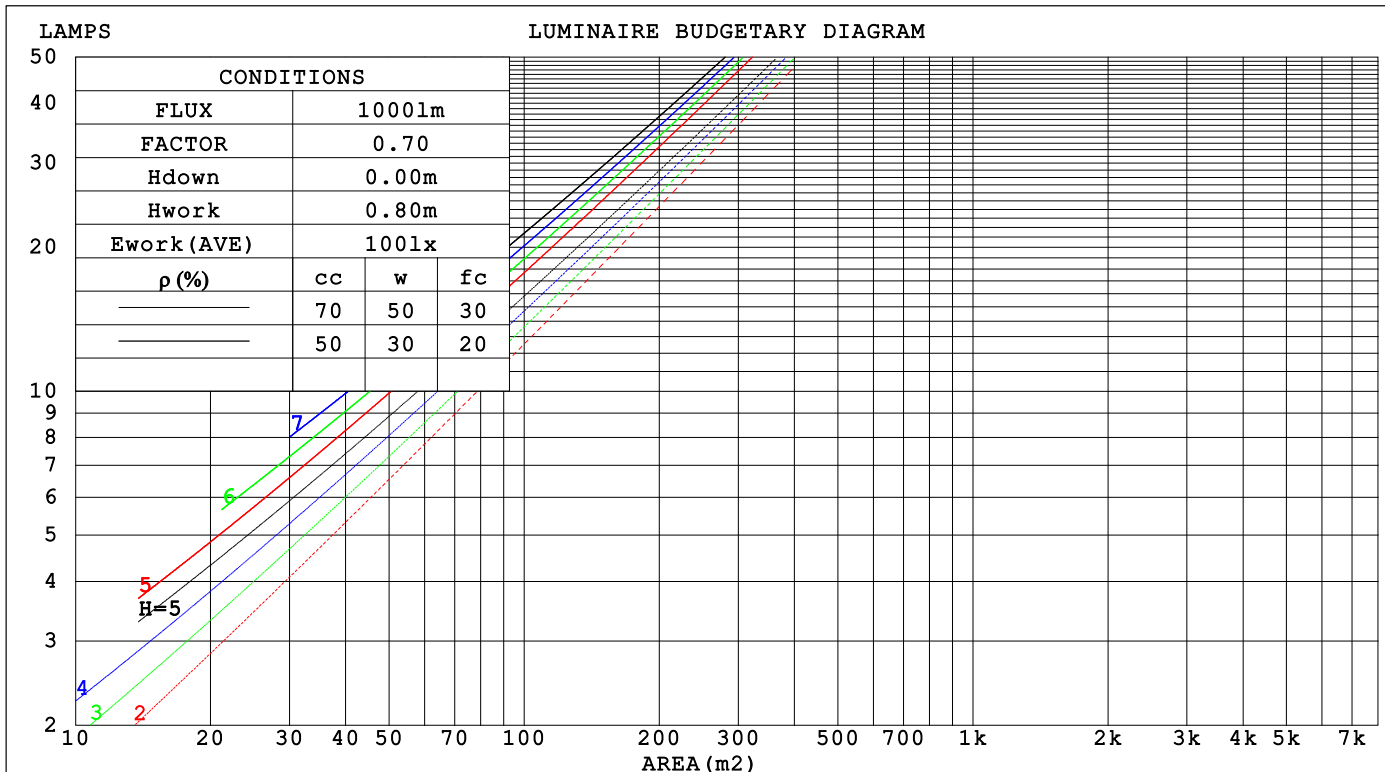
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 | | |
| Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | 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 | | | Coefficients of Utilization(CU) | | | | | | | | | | | | |
| 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 | 1.11 | 1.08 | 1.06 | 1.09 | 1.07 | 1.05 | 1.05 | 1.03 | 1.01 | 1.01 | .00 | .98 | .98 | .96 | .95 | .94 |
| 2.0 | 1.03 | .99 | .96 | 1.02 | .98 | .95 | .98 | .96 | .93 | .95 | .93 | .91 | .93 | .91 | .89 | .87 |
| 3.0 | .97 | .92 | .88 | .95 | .91 | .87 | .93 | .89 | .86 | .90 | .87 | .85 | .88 | .85 | .83 | .82 |
| 4.0 | .91 | .85 | .81 | .90 | .85 | .81 | .87 | .83 | .80 | .85 | .82 | .79 | .84 | .81 | .78 | .76 |
| 5.0 | .85 | .80 | .75 | .84 | .79 | .75 | .83 | .78 | .74 | .81 | .77 | .74 | .79 | .76 | .73 | .72 |
| 6.0 | .80 | .75 | .71 | .80 | .74 | .70 | .78 | .73 | .70 | .77 | .73 | .69 | .75 | .72 | .69 | .67 |
| 7.0 | .76 | .70 | .66 | .75 | .70 | .66 | .74 | .69 | .66 | .73 | .69 | .65 | .72 | .68 | .65 | .64 |
| 8.0 | .72 | .66 | .62 | .71 | .66 | .62 | .70 | .65 | .62 | .69 | .65 | .62 | .68 | .64 | .61 | .60 |
| 9.0 | .68 | .63 | .59 | .68 | .62 | .59 | .67 | .62 | .59 | .66 | .62 | .58 | .65 | .61 | .58 | .57 |
| 10.0 | .65 | .59 | .56 | .65 | .59 | .56 | .64 | .59 | .56 | .63 | .59 | .55 | .62 | .58 | .55 | .54 |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | | UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 | | | Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | DIM.: | | | SERIAL No.: | | |
| MFR.: Norming Lighting | | | SUR.: 26mm | | | 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 | .176 | .100 | .032 | .169 | .096 | .031 | .156 | .090 | .029 | .145 | .083 | .027 | .134 | .078 | .025 | | |
| 2.0 | .168 | .092 | .028 | .162 | .089 | .027 | .151 | .084 | .026 | .142 | .079 | .025 | .133 | .075 | .024 | | |
| 3.0 | .159 | .085 | .025 | .154 | .083 | .025 | .145 | .079 | .024 | .137 | .075 | .023 | .129 | .072 | .022 | | |
| 4.0 | .151 | .078 | .023 | .147 | .077 | .023 | .139 | .074 | .022 | .132 | .071 | .021 | .125 | .068 | .021 | | |
| 5.0 | .143 | .073 | .021 | .140 | .072 | .021 | .133 | .069 | .020 | .127 | .067 | .020 | .121 | .065 | .019 | | |
| 6.0 | .137 | .068 | .020 | .133 | .067 | .019 | .128 | .065 | .019 | .122 | .063 | .019 | .117 | .061 | .018 | | |
| 7.0 | .130 | .064 | .018 | .127 | .064 | .018 | .122 | .062 | .018 | .117 | .060 | .018 | .113 | .059 | .017 | | |
| 8.0 | .124 | .061 | .017 | .122 | .060 | .017 | .117 | .059 | .017 | .113 | .057 | .017 | .109 | .056 | .016 | | |
| 9.0 | .119 | .058 | .016 | .117 | .057 | .016 | .113 | .056 | .016 | .109 | .055 | .016 | .105 | .053 | .015 | | |
| 10.0 | .114 | .055 | .015 | .112 | .054 | .015 | .108 | .053 | .015 | .105 | .052 | .015 | .102 | .051 | .015 | | |

| 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 | .171 | .157 | .145 | .146 | .135 | .125 | .100 | .093 | .086 | .058 | .054 | .050 | .018 | .017 | .016 | | |
| 2.0 | .156 | .133 | .113 | .133 | .114 | .098 | .091 | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 | | |
| 3.0 | .143 | .114 | .090 | .123 | .098 | .078 | .084 | .068 | .055 | .049 | .040 | .032 | .016 | .013 | .011 | | |
| 4.0 | .133 | .099 | .073 | .114 | .085 | .063 | .078 | .059 | .045 | .045 | .035 | .026 | .015 | .011 | .009 | | |
| 5.0 | .124 | .087 | .060 | .106 | .075 | .052 | .073 | .053 | .037 | .042 | .031 | .022 | .014 | .010 | .007 | | |
| 6.0 | .116 | .078 | .050 | .100 | .067 | .044 | .069 | .047 | .031 | .040 | .028 | .018 | .013 | .009 | .006 | | |
| 7.0 | .110 | .070 | .043 | .094 | .061 | .037 | .065 | .043 | .026 | .038 | .025 | .016 | .012 | .008 | .005 | | |
| 8.0 | .104 | .064 | .037 | .089 | .055 | .032 | .062 | .039 | .023 | .036 | .023 | .013 | .012 | .008 | .004 | | |
| 9.0 | .099 | .059 | .032 | .085 | .051 | .028 | .059 | .036 | .020 | .034 | .021 | .012 | .011 | .007 | .004 | | |
| 10.0 | .094 | .054 | .028 | .081 | .047 | .024 | .056 | .033 | .017 | .033 | .020 | .010 | .011 | .006 | .003 | | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz UTHDi:0.17% ITHDi:18.28% KDisp:0.9407Lamp Flux:836.886x1 lm | | | | | | | | | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | | | | | | TYPE: | | WEIGHT: | | |
| SPEC.: | | | | | | DIM.: | | SERIAL No.: | | |
| MFR.: Norming Lighting | | | | | | SUR.: 26mm | | 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 | 25.1 | 26.0 | 25.3 | 26.2 | 26.3 | 25.8 | 26.8 | 26.1 | 26.9 | 27.1 |
| 3H | 25.0 | 25.9 | 25.3 | 26.1 | 26.3 | 25.8 | 26.7 | 26.1 | 26.8 | 27.0 |
| 4H | 25.0 | 25.8 | 25.3 | 26.0 | 26.2 | 25.8 | 26.6 | 26.0 | 26.8 | 27.0 |
| 6H | 24.9 | 25.7 | 25.2 | 25.9 | 26.2 | 25.7 | 26.5 | 26.0 | 26.7 | 26.9 |
| 8H | 24.9 | 25.6 | 25.2 | 25.9 | 26.1 | 25.7 | 26.4 | 26.0 | 26.7 | 26.9 |
| 12H | 24.8 | 25.5 | 25.2 | 25.8 | 26.1 | 25.6 | 26.3 | 26.0 | 26.6 | 26.9 |
| 4H 2H | 25.0 | 25.8 | 25.2 | 26.0 | 26.2 | 25.7 | 26.5 | 26.0 | 26.7 | 26.9 |
| 3H | 24.9 | 25.6 | 25.3 | 25.9 | 26.2 | 25.7 | 26.4 | 26.0 | 26.6 | 26.9 |
| 4H | 24.9 | 25.5 | 25.3 | 25.8 | 26.2 | 25.7 | 26.3 | 26.0 | 26.6 | 26.9 |
| 6H | 24.9 | 25.4 | 25.2 | 25.8 | 26.1 | 25.6 | 26.2 | 26.0 | 26.5 | 26.9 |
| 8H | 24.8 | 25.3 | 25.2 | 25.7 | 26.1 | 25.6 | 26.1 | 26.0 | 26.5 | 26.8 |
| 12H | 24.8 | 25.3 | 25.2 | 25.6 | 26.0 | 25.6 | 26.0 | 26.0 | 26.4 | 26.8 |
| 8H 4H | 24.8 | 25.3 | 25.2 | 25.7 | 26.0 | 25.6 | 26.1 | 25.9 | 26.4 | 26.8 |
| 6H | 24.8 | 25.2 | 25.2 | 25.6 | 26.0 | 25.5 | 25.9 | 26.0 | 26.3 | 26.8 |
| 8H | 24.8 | 25.1 | 25.2 | 25.5 | 26.0 | 25.5 | 25.9 | 25.9 | 26.3 | 26.7 |
| 12H | 24.7 | 25.0 | 25.2 | 25.5 | 25.9 | 25.5 | 25.8 | 25.9 | 26.2 | 26.7 |
| 12H 4H | 24.8 | 25.2 | 25.2 | 25.6 | 26.0 | 25.5 | 26.0 | 25.9 | 26.3 | 26.7 |
| 6H | 24.7 | 25.1 | 25.2 | 25.5 | 26.0 | 25.5 | 25.8 | 25.9 | 26.3 | 26.7 |
| 8H | 24.7 | 25.0 | 25.2 | 25.5 | 25.9 | 25.5 | 25.8 | 25.9 | 26.2 | 26.7 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 2.1 / - 4.2 | | | | | + 2.5 / - 4.1 | | | | |
| 1.5H | + 3.4 / - 3.1 | | | | | + 4.0 / - 3.4 | | | | |
| 2.0H | + 3.4 / - 2.8 | | | | | + 3.8 / - 3.0 | | | | |

CIE Pub.117, 836.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.6)
Area: 0.0005 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |

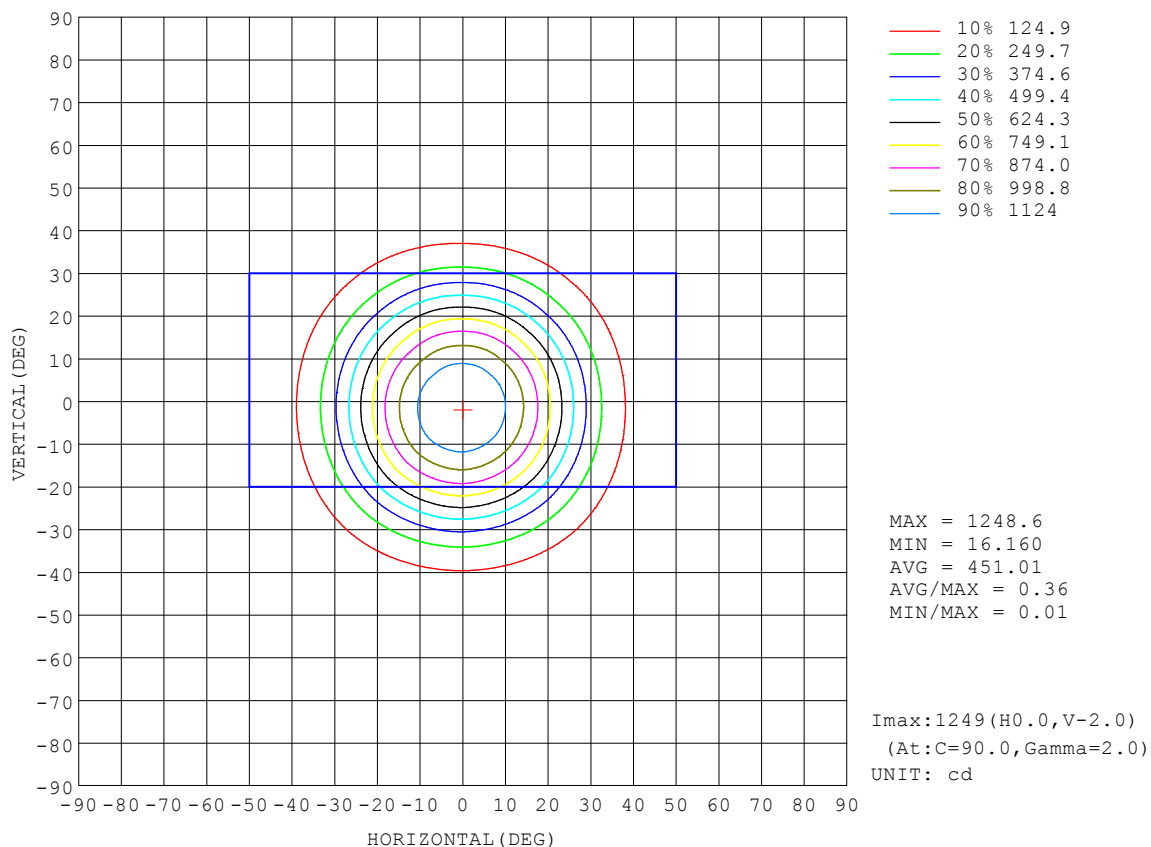
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 94 | 87 | 84 | 93 | 87 | 83 | 92 | 86 | 83 | 79 |
| 1.00 | 98 | 92 | 89 | 97 | 92 | 88 | 96 | 92 | 88 | 84 |
| 1.25 | 102 | 97 | 93 | 101 | 96 | 93 | 99 | 95 | 92 | 88 |
| 1.50 | 105 | 100 | 97 | 104 | 100 | 96 | 102 | 98 | 95 | 91 |
| 2.00 | 108 | 104 | 101 | 107 | 103 | 100 | 104 | 101 | 98 | 93 |
| 2.50 | 110 | 106 | 103 | 108 | 105 | 102 | 105 | 102 | 100 | 94 |
| 3.00 | 111 | 108 | 105 | 110 | 107 | 104 | 106 | 104 | 102 | 95 |
| 4.00 | 114 | 111 | 108 | 111 | 109 | 107 | 108 | 106 | 104 | 97 |
| 5.00 | 115 | 112 | 111 | 113 | 111 | 109 | 109 | 107 | 106 | 98 |
| 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: 2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |

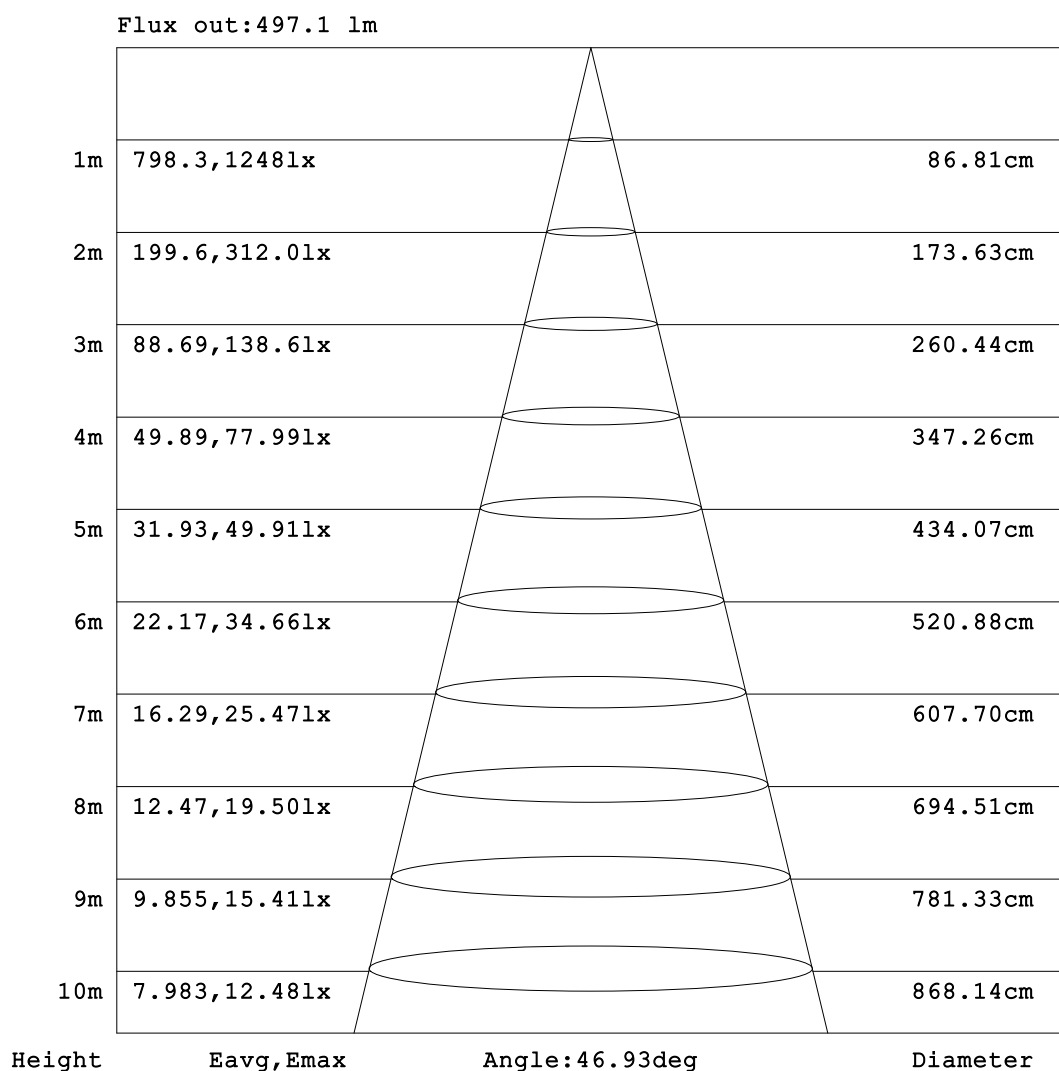


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 | | Lamp Flux:836.886x1 lm |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |



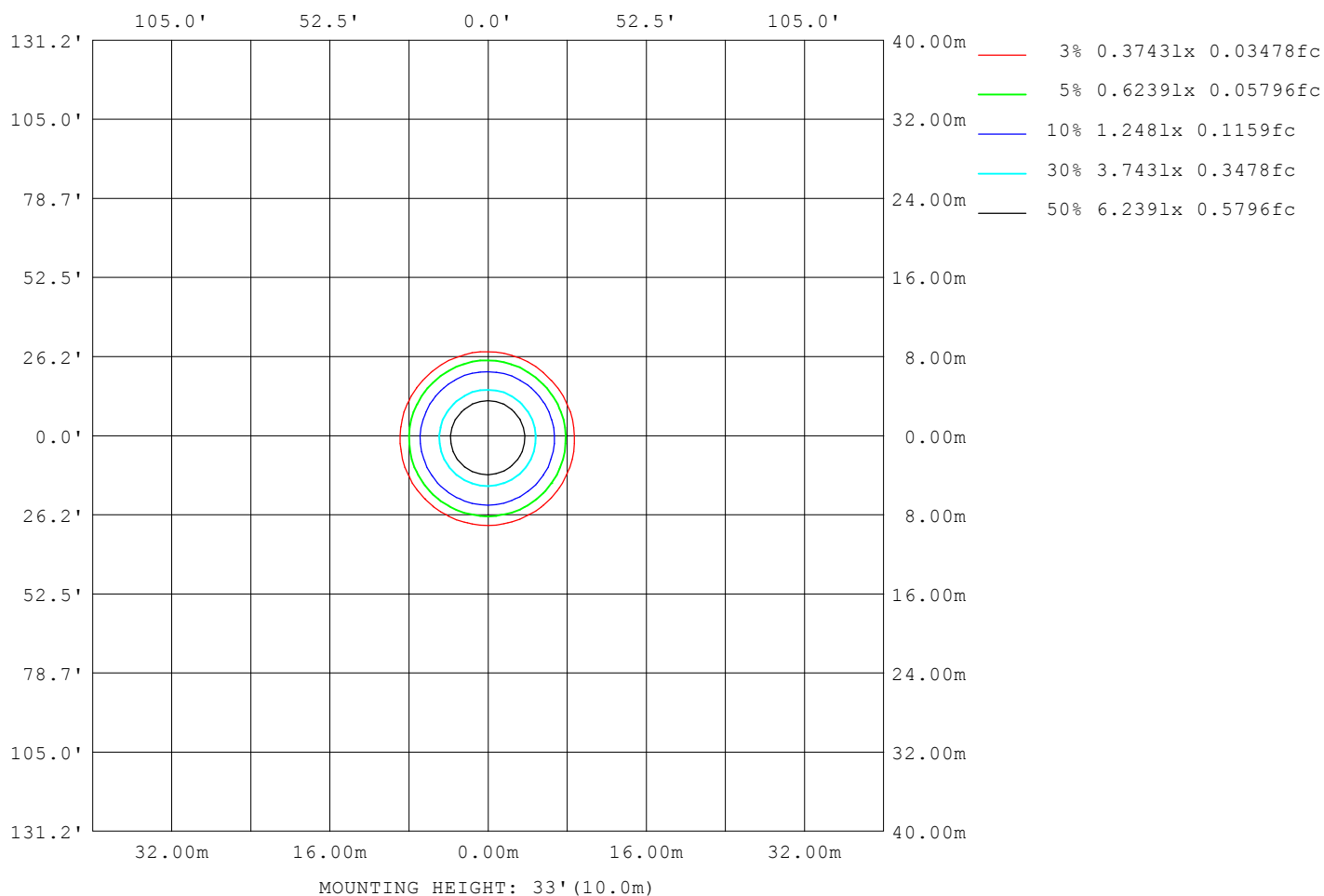
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-03-16

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:240.3V I:0.0413A P:9.2W PF:0.9253 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:18.28% KDisp:0.9407 Lamp Flux:836.886x1 lm | | |
| NAME: MD10-09-XX-16 4000K RA90 50D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming Lighting | SUR.: 26mm | Shielding Angle: |

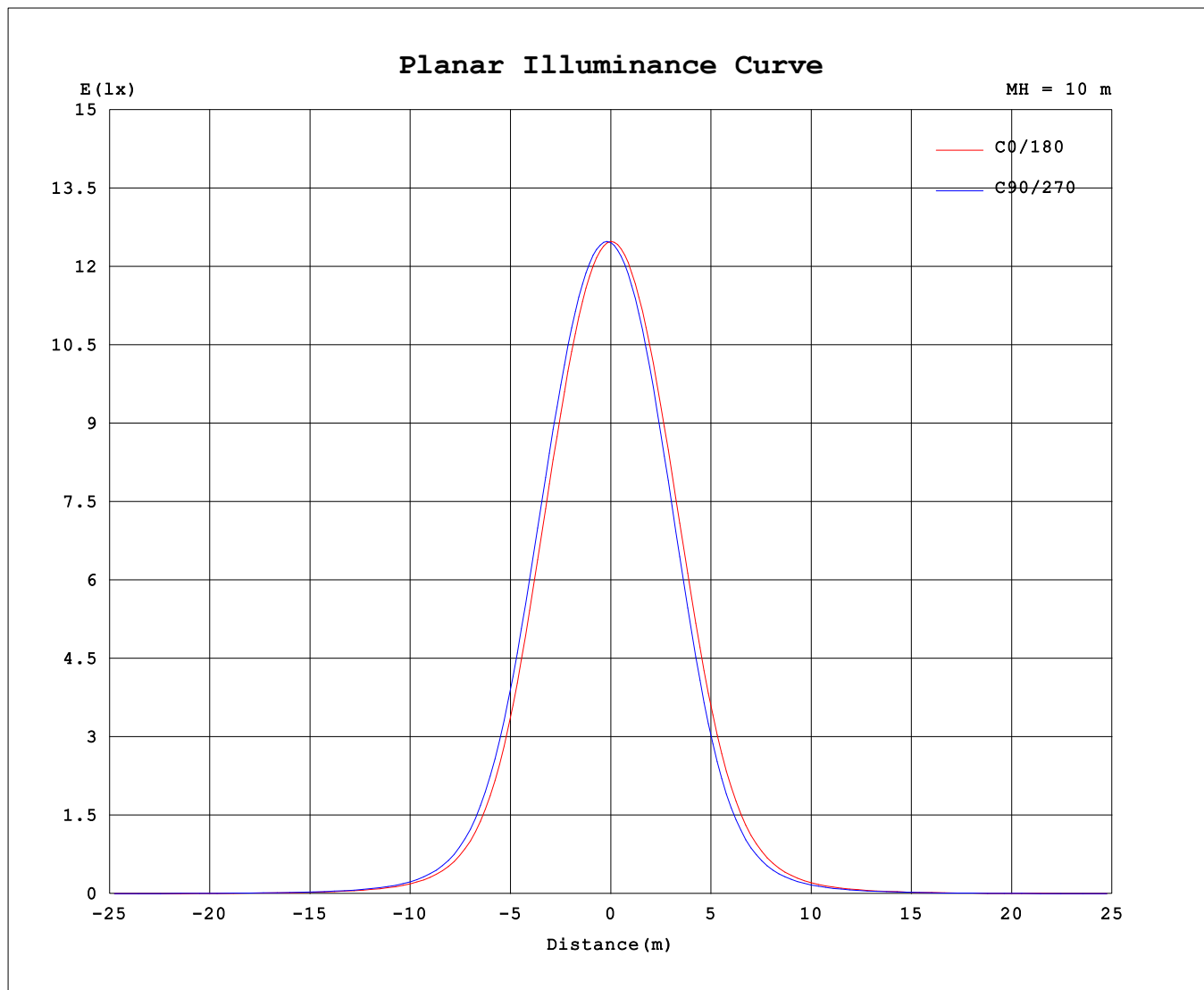
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 34460 |
| L_0~180 (75) av | 19384 |
| L_0~180 (85) av | 9602 |
| L_90~270 (65) av | 35920 |
| L_90~270 (75) av | 20331 |
| L_90~270 (85) av | 10068 |
| L_45 (65) av | 35125 |
| L_45 (75) av | 19812 |
| L_45 (85) av | 9678 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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: 2024-03-16

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 | 1246 | 1246 | 1246 | 1246 | 1246 | 1246 | 1246 | 1246 |
| 3.0 | 1234 | 1242 | 1247 | 1246 | 1237 | 1228 | 1225 | 1226 |
| 6.0 | 1200 | 1216 | 1227 | 1224 | 1206 | 1190 | 1183 | 1186 |
| 9.0 | 1144 | 1169 | 1186 | 1182 | 1155 | 1128 | 1120 | 1124 |
| 12.0 | 1067 | 1100 | 1121 | 1118 | 1083 | 1046 | 1035 | 1040 |
| 15.0 | 969.6 | 1009 | 1034 | 1032 | 990.0 | 944.2 | 929.4 | 937.4 |
| 18.0 | 855.0 | 899.8 | 926.6 | 926.0 | 879.0 | 826.9 | 806.6 | 816.7 |
| 21.0 | 724.8 | 774.6 | 800.8 | 801.9 | 752.5 | 696.5 | 672.7 | 683.7 |
| 24.0 | 586.6 | 639.3 | 665.1 | 666.1 | 617.2 | 560.9 | 536.0 | 545.9 |
| 27.0 | 452.4 | 502.9 | 527.1 | 527.9 | 483.1 | 430.9 | 406.3 | 414.4 |
| 30.0 | 332.7 | 376.9 | 397.5 | 397.6 | 360.7 | 316.0 | 294.2 | 299.9 |
| 33.0 | 235.3 | 270.4 | 286.2 | 285.8 | 258.4 | 223.2 | 206.8 | 209.0 |
| 36.0 | 162.2 | 188.4 | 198.7 | 199.1 | 180.2 | 154.0 | 140.7 | 143.0 |
| 39.0 | 110.9 | 129.2 | 135.6 | 136.1 | 123.9 | 105.6 | 96.41 | 97.53 |
| 42.0 | 76.92 | 88.69 | 93.94 | 92.94 | 85.40 | 73.63 | 67.13 | 68.07 |
| 45.0 | 53.89 | 61.74 | 64.94 | 64.52 | 59.58 | 51.88 | 47.71 | 48.19 |
| 48.0 | 38.44 | 43.71 | 46.08 | 45.68 | 42.40 | 37.29 | 34.67 | 34.86 |
| 51.0 | 27.97 | 31.55 | 33.42 | 33.11 | 30.72 | 27.31 | 25.66 | 25.73 |
| 54.0 | 20.66 | 23.13 | 24.66 | 24.38 | 22.59 | 20.27 | 19.33 | 19.25 |
| 57.0 | 15.35 | 17.14 | 18.44 | 18.19 | 16.79 | 15.15 | 14.49 | 14.46 |
| 60.0 | 11.45 | 12.80 | 13.85 | 13.63 | 12.51 | 11.35 | 10.84 | 10.80 |
| 63.0 | 8.525 | 9.558 | 10.46 | 10.20 | 9.296 | 8.489 | 8.076 | 8.023 |
| 66.0 | 6.283 | 7.093 | 7.755 | 7.572 | 6.873 | 6.323 | 5.976 | 5.861 |
| 69.0 | 4.631 | 5.255 | 5.717 | 5.610 | 5.095 | 4.688 | 4.423 | 4.303 |
| 72.0 | 3.368 | 3.860 | 4.206 | 4.139 | 3.726 | 3.391 | 3.190 | 3.105 |
| 75.0 | 2.377 | 2.748 | 3.018 | 2.968 | 2.641 | 2.360 | 2.245 | 2.179 |
| 78.0 | 1.646 | 1.905 | 2.082 | 2.075 | 1.834 | 1.596 | 1.544 | 1.486 |
| 81.0 | 1.081 | 1.270 | 1.402 | 1.419 | 1.233 | 0.9955 | 0.9593 | 0.9174 |
| 84.0 | 0.5271 | 0.7225 | 0.8604 | 0.8729 | 0.6860 | 0.4442 | 0.3607 | 0.3292 |
| 87.0 | 0.0452 | 0.2081 | 0.3113 | 0.3071 | 0.1680 | 0.0207 | 0.0254 | 0.0166 |
| 90.0 | 0.0234 | 0.0145 | 0.0270 | 0.0193 | 0.0173 | 0.0206 | 0.0219 | 0.0209 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-16

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: