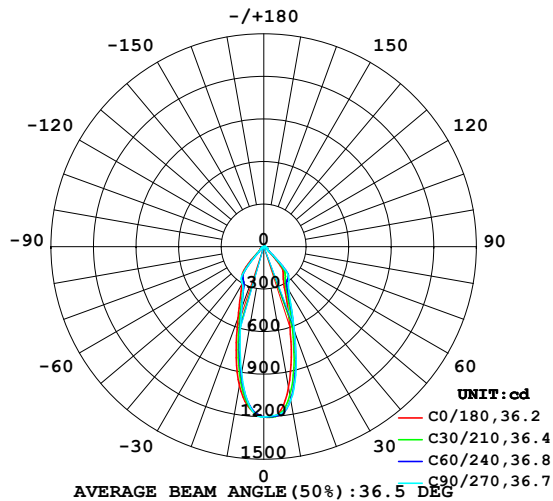


LUMINAIRE PHOTOMETRIC TEST REPORT

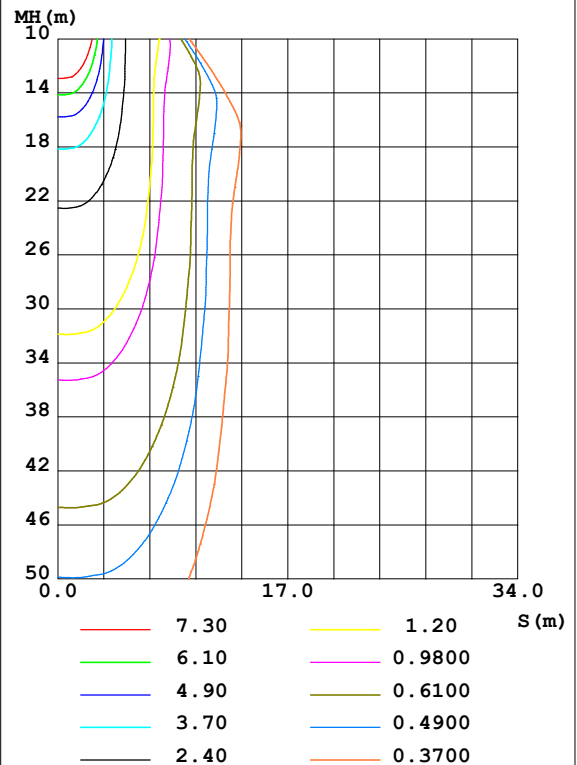
| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:Φ55MM | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 72.11 lm/W |
|------------------|---------|------------------|--------|-------------------|----------|-----------------|
| MODEL | | Imax(cd) | 1205 | S/MH(C0/180) | 0.59 | |
| NOMINAL POWER(W) | 12 | LOR(%) | 100.0 | S/MH(C90/270) | 0.52 | |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 801.38 | η UP,DN(C0-180) | 0.5,54.0 | |
| NOMINAL FLUX(lm) | 801.377 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.6,45.0 | |
| LAMPS INSIDE | 1 | η up(%) | 1.0 | CIBSE SHR NOM | 0.50 | |
| TEST VOLTAGE(V) | 120 | η down(%) | 99.0 | CIBSE SHR MAX | 0.60 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [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 | 1008 | 1084 | 1098 | 1048 | 996.5 | 936.8 | 909.1 | 938.5 | 0- 10 | 105.9 | 105.9 | 13.2,13.2 |
| 20 | 519.8 | 606.5 | 631.3 | 581.6 | 532.4 | 466.1 | 456.7 | 472.5 | 10- 20 | 208.2 | 314.1 | 39.2,39.2 |
| 30 | 280.3 | 319.4 | 352.1 | 337.6 | 310.1 | 288.7 | 302.7 | 302.0 | 20- 30 | 182.1 | 496.2 | 61.9,61.9 |
| 40 | 204.5 | 258.4 | 267.9 | 271.2 | 220.0 | 173.5 | 167.7 | 199.0 | 30- 40 | 170.2 | 666.4 | 83.2,83.2 |
| 50 | 37.29 | 40.80 | 40.55 | 37.38 | 36.15 | 31.03 | 30.02 | 32.43 | 40- 50 | 78.27 | 744.7 | 92.9,92.9 |
| 60 | 23.13 | 24.08 | 23.99 | 22.67 | 22.84 | 19.29 | 18.35 | 19.71 | 50- 60 | 24.80 | 769.4 | 96,96 |
| 70 | 11.47 | 12.61 | 13.53 | 12.50 | 11.85 | 9.761 | 8.680 | 9.509 | 60- 70 | 15.87 | 785.3 | 98,98 |
| 80 | 2.117 | 3.728 | 4.283 | 3.444 | 2.223 | 0.9103 | 0.7300 | 0.9665 | 70- 80 | 7.143 | 792.5 | 98.9,98.9 |
| 90 | 0.1038 | 0.0878 | 0.0963 | 0.0846 | 0.1354 | 0.1430 | 0.1417 | 0.1394 | 80- 90 | 0.6173 | 793.1 | 99,99 |
| 100 | 0.1648 | 0.1287 | 0.1362 | 0.1348 | 0.2542 | 0.2891 | 0.2985 | 0.2830 | 90-100 | 0.1603 | 793.2 | 99,99 |
| 110 | 0.4111 | 0.3450 | 0.3481 | 0.3579 | 0.5119 | 0.5773 | 0.6216 | 0.5801 | 100-110 | 0.3443 | 793.6 | 99,99 |
| 120 | 0.7983 | 0.6956 | 0.7073 | 0.7157 | 0.9366 | 1.047 | 1.132 | 1.054 | 110-120 | 0.6494 | 794.2 | 99.1,99.1 |
| 130 | 1.467 | 1.291 | 1.296 | 1.306 | 1.630 | 1.764 | 1.895 | 1.779 | 120-130 | 1.061 | 795.3 | 99.2,99.2 |
| 140 | 2.468 | 2.134 | 2.173 | 2.146 | 2.466 | 2.580 | 2.704 | 2.608 | 130-140 | 1.511 | 796.8 | 99.4,99.4 |
| 150 | 3.160 | 2.952 | 2.957 | 2.948 | 3.200 | 3.220 | 3.351 | 3.246 | 140-150 | 1.737 | 798.5 | 99.6,99.6 |
| 160 | 3.475 | 3.403 | 3.407 | 3.354 | 3.488 | 3.440 | 3.476 | 3.440 | 150-160 | 1.528 | 800.1 | 99.8,99.8 |
| 170 | 3.472 | 3.463 | 3.459 | 3.422 | 3.440 | 3.397 | 3.435 | 3.410 | 160-170 | 0.9762 | 801.0 | 100,100 |
| 180 | 3.489 | 3.508 | 3.475 | 3.503 | 3.498 | 3.510 | 3.475 | 3.503 | 170-180 | 0.3284 | 801.4 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 723.22 lm

%lum = 90.2%

%lamp = 90.2%

Conical surface Flux(120deg): 769.45 lm

%lum = 96.0%

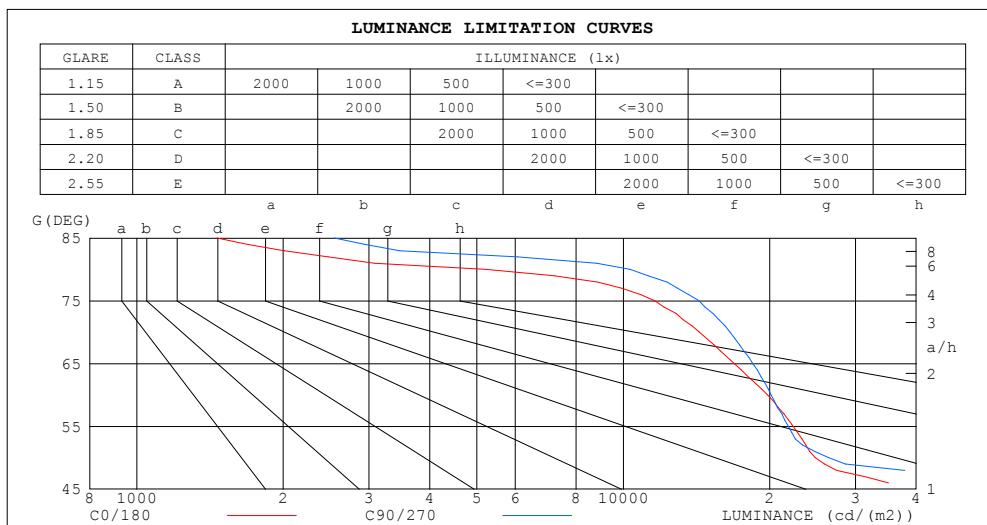
%lamp = 96.0%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:Φ55MM | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 1461 | 2548 |
| 80 | 5213 | 10338 |
| 75 | 11615 | 14316 |
| 70 | 14341 | 16582 |
| 65 | 16894 | 18460 |
| 60 | 19777 | 20110 |
| 55 | 22330 | 21838 |
| 50 | 24795 | 26444 |
| 45 | 46740 | 91534 |

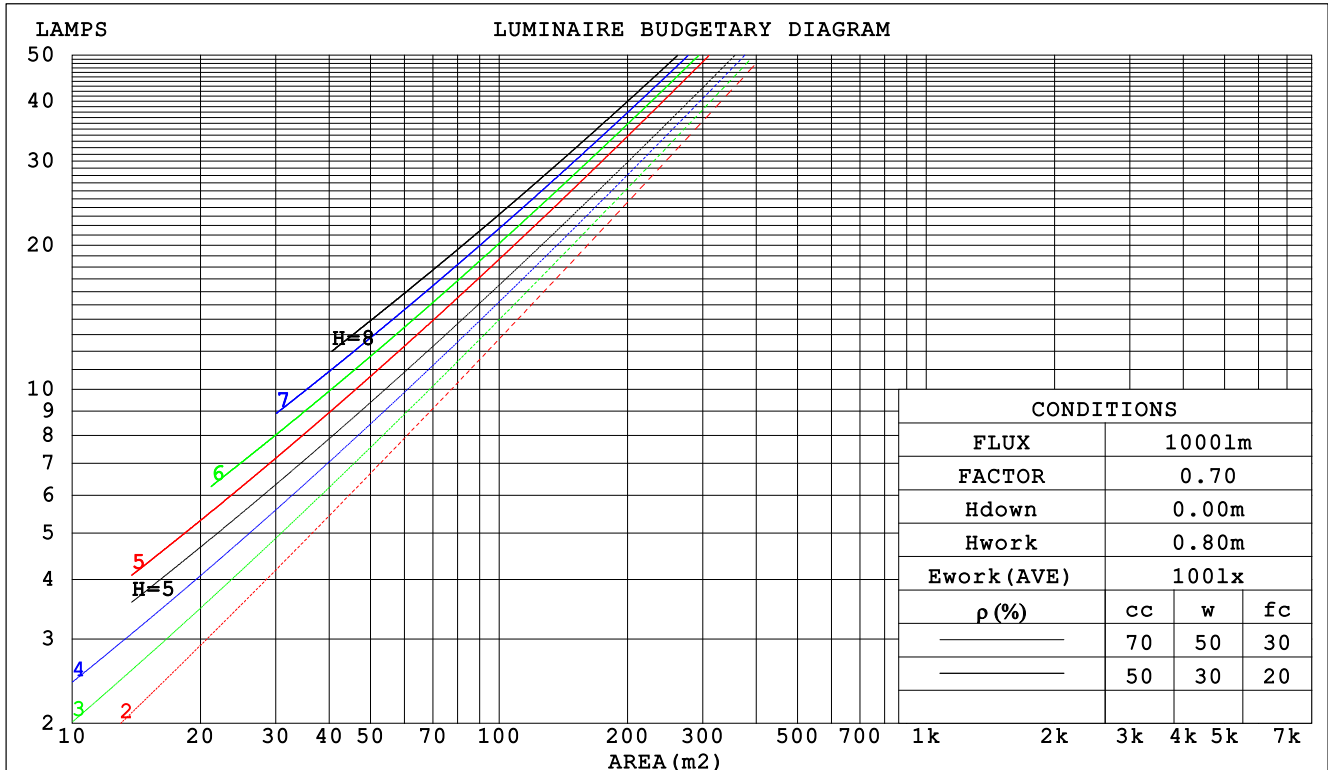
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:#55MM | Shielding Angle: |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 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 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0 | 1.10 | 1.07 | 1.05 | 1.08 | 1.05 | 1.03 | 1.03 | 1.01 | .00 | .99 | .98 | .96 | .96 | .95 | .93 | .92 |
| 2.0 | 1.01 | .97 | .93 | .00 | .96 | .92 | .96 | .93 | .90 | .93 | .90 | .88 | .90 | .88 | .86 | .84 |
| 3.0 | .94 | .89 | .84 | .92 | .88 | .84 | .90 | .86 | .82 | .87 | .84 | .81 | .85 | .82 | .79 | .78 |
| 4.0 | .87 | .81 | .77 | .86 | .81 | .76 | .84 | .79 | .75 | .82 | .78 | .74 | .80 | .76 | .73 | .72 |
| 5.0 | .81 | .75 | .71 | .80 | .75 | .70 | .79 | .73 | .70 | .77 | .72 | .69 | .75 | .71 | .68 | .67 |
| 6.0 | .76 | .70 | .65 | .75 | .69 | .65 | .74 | .69 | .65 | .72 | .68 | .64 | .71 | .67 | .64 | .62 |
| 7.0 | .72 | .65 | .61 | .71 | .65 | .61 | .69 | .64 | .60 | .68 | .63 | .60 | .67 | .63 | .59 | .58 |
| 8.0 | .67 | .61 | .57 | .67 | .61 | .57 | .66 | .60 | .56 | .64 | .60 | .56 | .63 | .59 | .56 | .54 |
| 9.0 | .64 | .58 | .53 | .63 | .57 | .53 | .62 | .57 | .53 | .61 | .56 | .53 | .60 | .56 | .53 | .51 |
| 10.0 | .60 | .54 | .50 | .60 | .54 | .50 | .59 | .54 | .50 | .58 | .53 | .50 | .57 | .53 | .50 | .48 |



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:#55MM | 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 | .192 | .109 | .035 | .185 | .105 | .033 | .172 | .098 | .031 | .159 | .092 | .030 | .148 | .086 | .028 | | |
| 2.0 | .184 | .101 | .031 | .178 | .098 | .030 | .167 | .093 | .029 | .157 | .088 | .027 | .147 | .083 | .026 | | |
| 3.0 | .175 | .093 | .028 | .170 | .091 | .027 | .160 | .087 | .026 | .151 | .083 | .025 | .143 | .079 | .024 | | |
| 4.0 | .166 | .086 | .025 | .161 | .084 | .025 | .153 | .081 | .024 | .145 | .078 | .023 | .138 | .075 | .023 | | |
| 5.0 | .157 | .080 | .023 | .153 | .079 | .023 | .146 | .076 | .022 | .139 | .073 | .022 | .132 | .071 | .021 | | |
| 6.0 | .149 | .075 | .021 | .146 | .074 | .021 | .139 | .071 | .021 | .133 | .069 | .020 | .127 | .067 | .020 | | |
| 7.0 | .142 | .070 | .020 | .139 | .069 | .020 | .133 | .067 | .019 | .127 | .065 | .019 | .122 | .063 | .019 | | |
| 8.0 | .135 | .066 | .019 | .132 | .065 | .018 | .127 | .063 | .018 | .122 | .062 | .018 | .117 | .060 | .018 | | |
| 9.0 | .129 | .062 | .017 | .126 | .061 | .017 | .121 | .060 | .017 | .117 | .059 | .017 | .113 | .057 | .017 | | |
| 10.0 | .123 | .059 | .016 | .121 | .058 | .016 | .116 | .057 | .016 | .112 | .056 | .016 | .109 | .055 | .016 | | |

| 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 | .198 | .198 | .198 | .170 | .170 | .170 | .116 | .116 | .116 | .066 | .066 | .066 | .021 | .021 | .021 | | |
| 1.0 | .180 | .165 | .152 | .154 | .142 | .131 | .105 | .098 | .090 | .061 | .056 | .052 | .019 | .018 | .017 | | |
| 2.0 | .166 | .140 | .119 | .142 | .121 | .103 | .097 | .084 | .072 | .056 | .049 | .042 | .018 | .016 | .014 | | |
| 3.0 | .154 | .122 | .096 | .132 | .105 | .083 | .091 | .073 | .058 | .052 | .043 | .034 | .017 | .014 | .011 | | |
| 4.0 | .144 | .107 | .079 | .124 | .093 | .068 | .085 | .065 | .048 | .049 | .038 | .029 | .016 | .012 | .009 | | |
| 5.0 | .136 | .096 | .066 | .117 | .083 | .058 | .080 | .058 | .041 | .047 | .034 | .024 | .015 | .011 | .008 | | |
| 6.0 | .129 | .087 | .057 | .110 | .075 | .049 | .076 | .053 | .035 | .044 | .031 | .021 | .014 | .010 | .007 | | |
| 7.0 | .122 | .079 | .049 | .105 | .069 | .043 | .073 | .048 | .030 | .042 | .028 | .018 | .014 | .009 | .006 | | |
| 8.0 | .116 | .073 | .043 | .100 | .063 | .038 | .069 | .044 | .027 | .040 | .026 | .016 | .013 | .009 | .005 | | |
| 9.0 | .111 | .068 | .039 | .096 | .059 | .034 | .066 | .041 | .024 | .039 | .024 | .014 | .012 | .008 | .005 | | |
| 10.0 | .106 | .063 | .035 | .092 | .055 | .031 | .064 | .039 | .022 | .037 | .023 | .013 | .012 | .008 | .004 | | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|--|-----|------------------|------|------|-------------------|------|----------------|-------------------|------|------|------|
| NAME : | | | | | TYPE :4000K CRI90 | | | WEIGHT : | | | |
| SPEC. :RAR40R-12-40K | | | | | DIM. : | | | SERIAL No. :1 | | | |
| MFR. : RAYHIL | | | | | SUR. :#55MM | | | 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 | 2H | 23.8 | 24.8 | 24.1 | 25.0 | 25.2 | 25.0 | 26.0 | 25.2 | 26.2 | 26.4 |
| | 3H | 24.0 | 24.9 | 24.2 | 25.1 | 25.3 | 25.1 | 26.0 | 25.4 | 26.3 | 26.5 |
| | 4H | 24.0 | 24.9 | 24.3 | 25.1 | 25.4 | 25.1 | 26.0 | 25.4 | 26.3 | 26.5 |
| | 6H | 24.0 | 24.8 | 24.3 | 25.1 | 25.3 | 25.1 | 26.0 | 25.5 | 26.2 | 26.5 |
| | 8H | 23.9 | 24.7 | 24.3 | 25.0 | 25.3 | 25.1 | 25.9 | 25.4 | 26.2 | 26.5 |
| | 12H | 23.9 | 24.6 | 24.2 | 24.9 | 25.2 | 25.1 | 25.8 | 25.4 | 26.1 | 26.4 |
| 4H | 2H | 23.7 | 24.6 | 24.0 | 24.9 | 25.1 | 24.9 | 25.8 | 25.2 | 26.0 | 26.2 |
| | 3H | 24.0 | 24.8 | 24.3 | 25.0 | 25.3 | 25.1 | 25.8 | 25.4 | 26.1 | 26.4 |
| | 4H | 24.1 | 24.8 | 24.5 | 25.1 | 25.4 | 25.2 | 25.9 | 25.5 | 26.2 | 26.5 |
| | 6H | 24.1 | 24.7 | 24.5 | 25.1 | 25.4 | 25.2 | 25.8 | 25.6 | 26.2 | 26.5 |
| | 8H | 24.1 | 24.6 | 24.5 | 25.0 | 25.4 | 25.2 | 25.7 | 25.6 | 26.1 | 26.5 |
| | 12H | 24.0 | 24.5 | 24.5 | 24.9 | 25.3 | 25.1 | 25.6 | 25.6 | 26.0 | 26.5 |
| 8H | 4H | 24.1 | 24.7 | 24.5 | 25.0 | 25.4 | 25.1 | 25.7 | 25.5 | 26.1 | 26.4 |
| | 6H | 24.1 | 24.6 | 24.6 | 25.0 | 25.4 | 25.2 | 25.7 | 25.6 | 26.1 | 26.5 |
| | 8H | 24.1 | 24.5 | 24.6 | 24.9 | 25.4 | 25.2 | 25.6 | 25.6 | 26.0 | 26.5 |
| | 12H | 24.0 | 24.4 | 24.5 | 24.8 | 25.3 | 25.1 | 25.5 | 25.6 | 25.9 | 26.4 |
| 12H | 4H | 24.1 | 24.6 | 24.5 | 25.0 | 25.4 | 25.1 | 25.6 | 25.5 | 26.0 | 26.4 |
| | 6H | 24.1 | 24.5 | 24.6 | 24.9 | 25.4 | 25.2 | 25.6 | 25.6 | 26.0 | 26.5 |
| | 8H | 24.0 | 24.4 | 24.5 | 24.9 | 25.3 | 25.1 | 25.5 | 25.6 | 25.9 | 26.4 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | + 2.6 / - 3.6 | | | | | + 2.7 / - 4.1 | | | | |
| 1.5H | | + 3.3 / - 3.4 | | | | | + 3.0 / - 4.3 | | | | |
| 2.0H | | + 2.5 / - 1.0 | | | | | + 5.3 / - 1.9 | | | | |

CIE Pub.117, 801.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

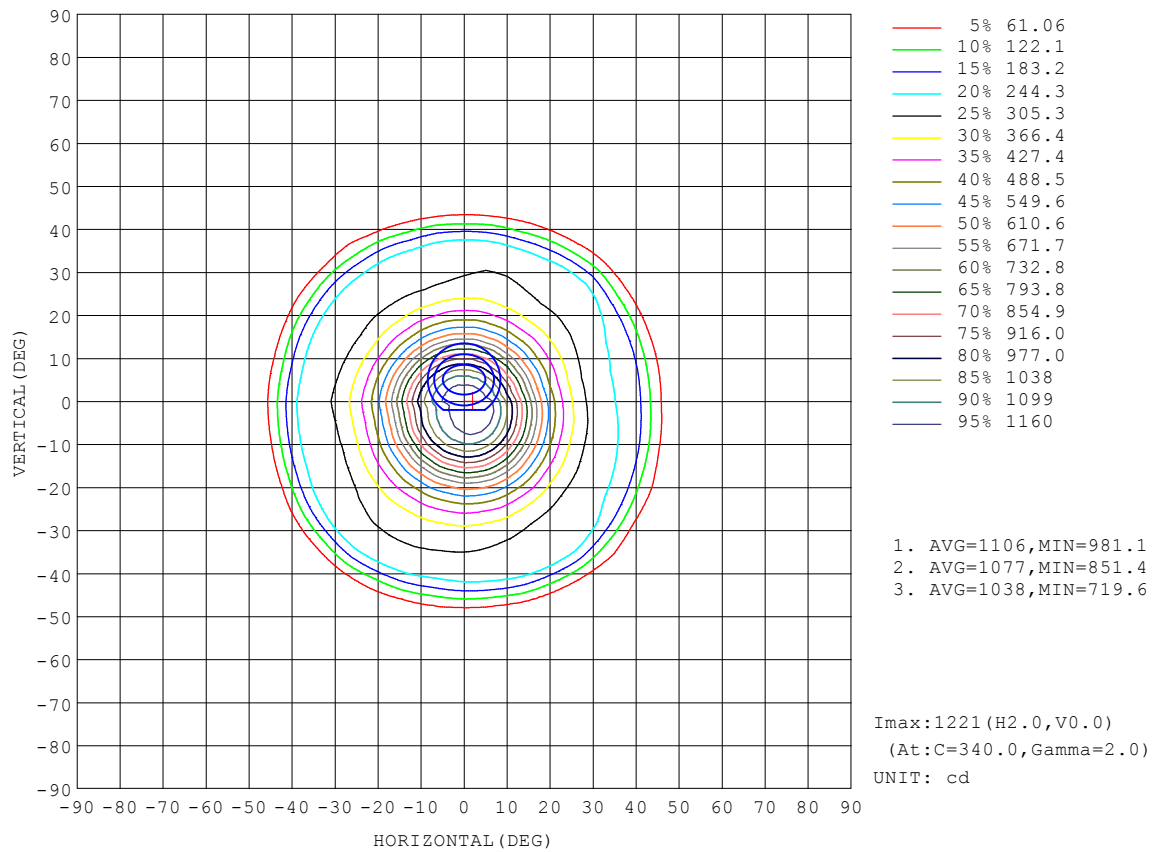
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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:Φ55MM | Shielding Angle: |

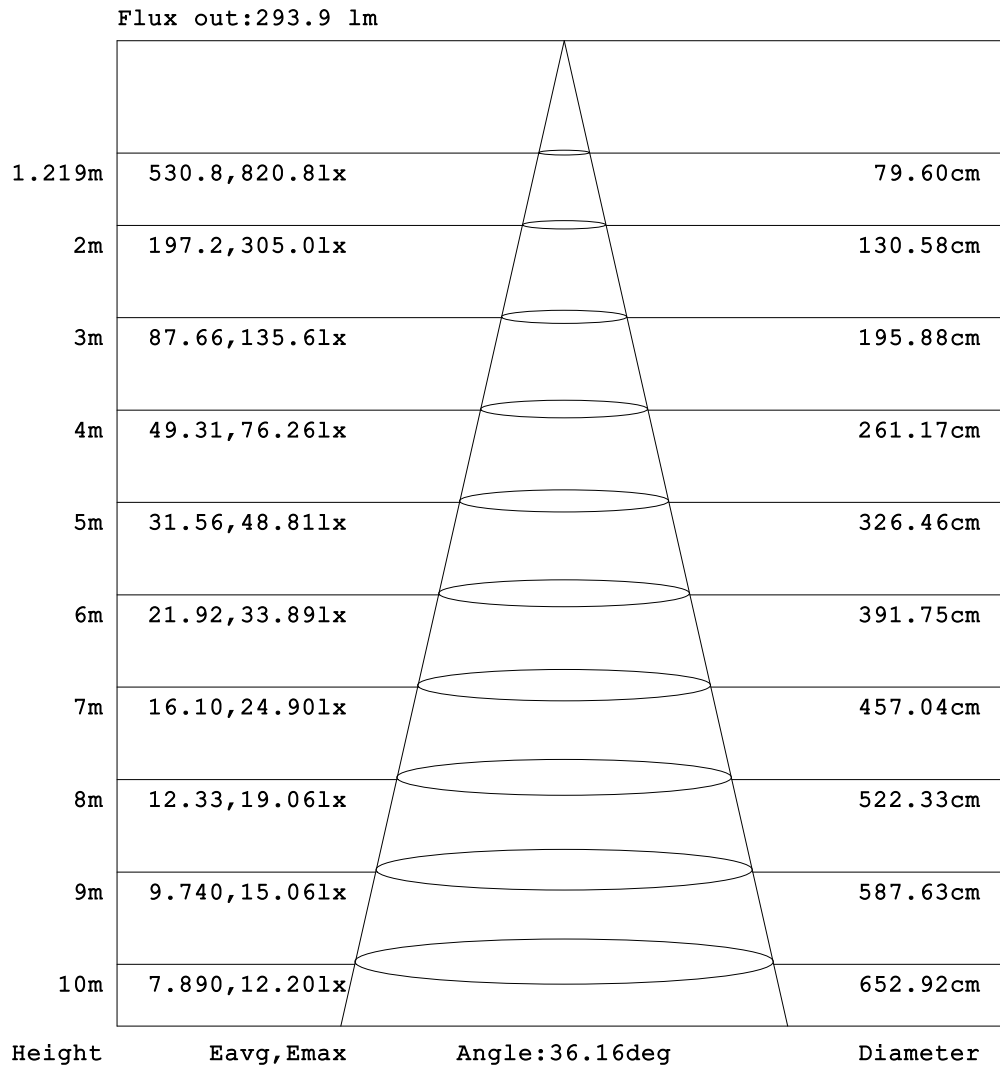


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:Φ55MM | Shielding Angle: |



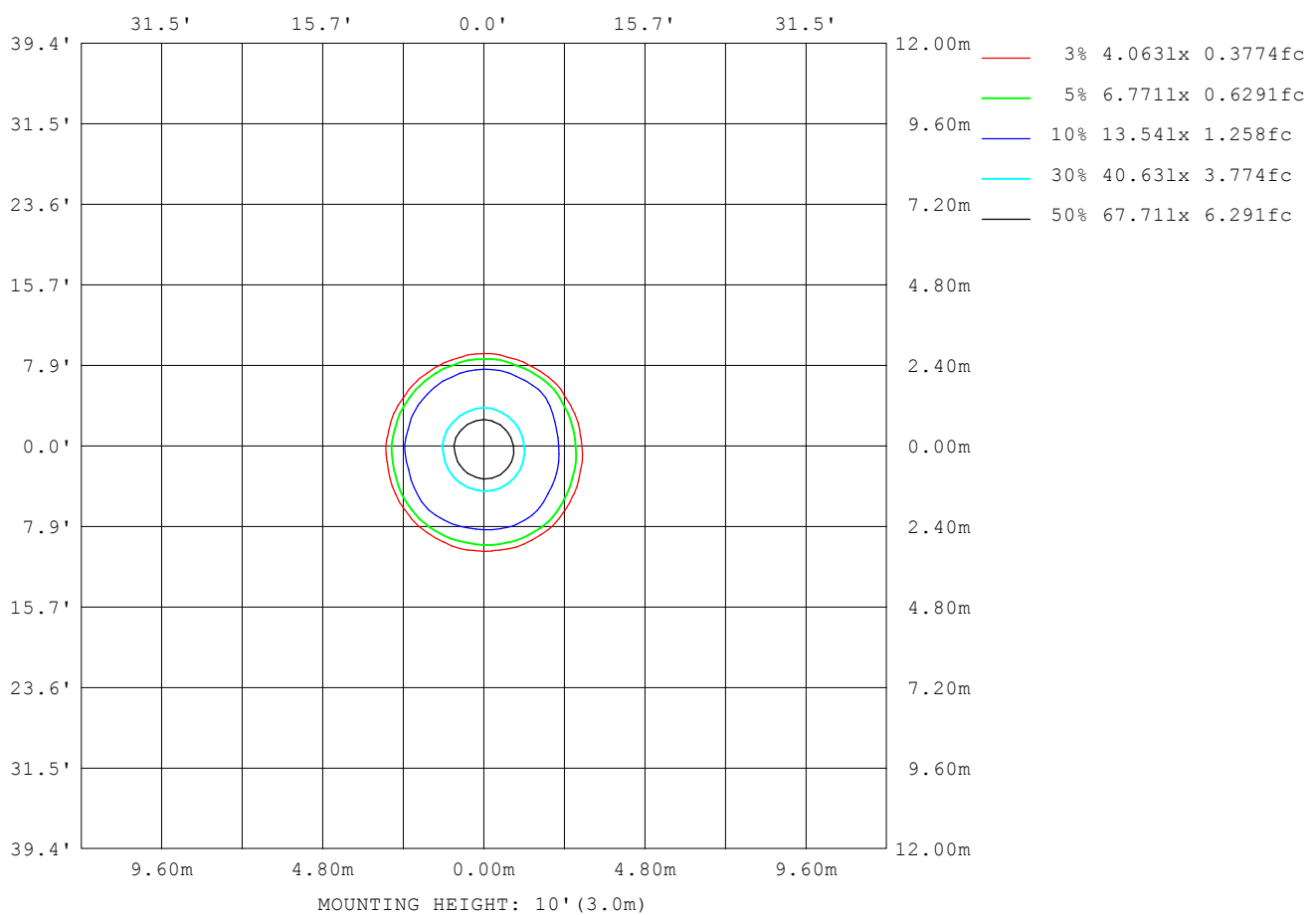
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:Φ55MM | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:Φ55MM | Shielding Angle: |

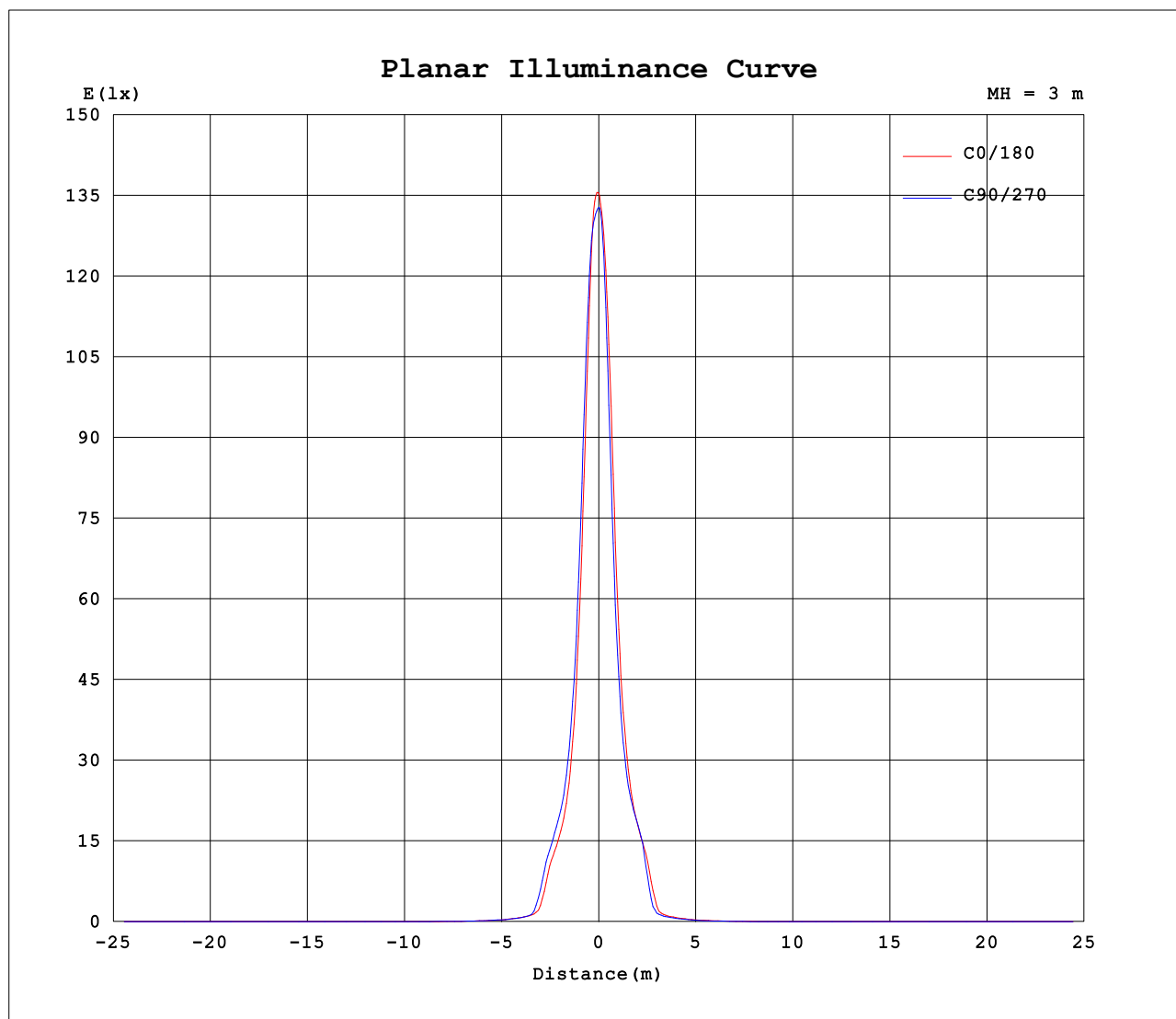
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 16721 |
| L_0~180 (75) av | 11728 |
| L_0~180 (85) av | 1541 |
| L_90~270 (65) av | 15829 |
| L_90~270 (75) av | 10994 |
| L_90~270 (85) av | 1756 |
| L_45 (65) av | 15768 |
| L_45 (75) av | 11102 |
| L_45 (85) av | 1562 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.620m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:#55MM | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 |
| 5 | 1183 | 1184 | 1192 | 1189 | 1196 | 1193 | 1195 | 1185 | 1194 | 1189 | 1185 | 1181 | 1174 | 1169 | 1165 | 1160 | 1153 | 1149 | 1145 |
| 10 | 1008 | 1029 | 1047 | 1064 | 1078 | 1089 | 1095 | 1097 | 1102 | 1098 | 1088 | 1081 | 1066 | 1057 | 1040 | 1031 | 1011 | 1002 | 997 |
| 15 | 751 | 778 | 799 | 828 | 845 | 862 | 873 | 882 | 883 | 882 | 867 | 859 | 838 | 829 | 807 | 795 | 772 | 760 | 756 |
| 20 | 520 | 539 | 556 | 580 | 596 | 617 | 627 | 634 | 632 | 631 | 616 | 612 | 597 | 591 | 572 | 562 | 544 | 536 | 532 |
| 25 | 366 | 384 | 392 | 411 | 420 | 438 | 443 | 454 | 453 | 458 | 450 | 447 | 438 | 434 | 423 | 415 | 402 | 397 | 394 |
| 30 | 280 | 291 | 298 | 309 | 315 | 324 | 329 | 340 | 346 | 352 | 350 | 349 | 345 | 342 | 333 | 321 | 311 | 310 | 310 |
| 35 | 242 | 251 | 258 | 267 | 273 | 281 | 289 | 296 | 303 | 307 | 308 | 310 | 309 | 307 | 299 | 282 | 272 | 273 | 271 |
| 40 | 204 | 216 | 224 | 234 | 250 | 267 | 272 | 275 | 272 | 268 | 266 | 271 | 273 | 276 | 267 | 253 | 238 | 229 | 220 |
| 45 | 77.3 | 90.0 | 99.7 | 117 | 135 | 158 | 157 | 162 | 155 | 154 | 144 | 146 | 135 | 136 | 115 | 107 | 86.6 | 76.3 | 73.4 |
| 50 | 37.3 | 37.9 | 37.7 | 39.0 | 39.9 | 41.7 | 41.3 | 41.5 | 40.8 | 40.6 | 39.6 | 39.5 | 38.5 | 38.2 | 36.6 | 35.7 | 34.2 | 33.5 | 36.2 |
| 55 | 30.0 | 30.2 | 29.9 | 30.3 | 30.3 | 30.7 | 30.3 | 30.3 | 29.9 | 29.9 | 29.4 | 29.3 | 29.0 | 28.9 | 28.4 | 28.2 | 27.5 | 27.1 | 29.4 |
| 60 | 23.1 | 23.5 | 23.4 | 23.9 | 23.9 | 24.3 | 24.0 | 24.1 | 23.9 | 24.0 | 23.6 | 23.5 | 23.1 | 22.9 | 22.4 | 22.2 | 21.6 | 21.2 | 22.8 |
| 65 | 16.7 | 17.2 | 17.2 | 17.6 | 17.7 | 18.1 | 18.1 | 18.4 | 18.4 | 18.6 | 18.4 | 18.2 | 17.8 | 17.5 | 17.0 | 16.7 | 16.1 | 15.7 | 16.8 |
| 70 | 11.5 | 11.8 | 11.9 | 12.3 | 12.4 | 12.8 | 13.0 | 13.4 | 13.4 | 13.5 | 13.3 | 13.2 | 12.9 | 12.7 | 12.3 | 12.0 | 11.5 | 11.2 | 11.8 |
| 75 | 7.03 | 7.40 | 7.53 | 7.94 | 8.09 | 8.48 | 8.49 | 8.69 | 8.71 | 8.84 | 8.69 | 8.66 | 8.40 | 8.30 | 7.87 | 7.66 | 7.28 | 7.10 | 7.38 |
| 80 | 2.12 | 2.56 | 2.79 | 3.35 | 3.53 | 3.93 | 3.99 | 4.23 | 4.18 | 4.28 | 4.11 | 4.08 | 3.77 | 3.67 | 3.22 | 3.01 | 2.46 | 2.23 | 2.22 |
| 85 | 0.30 | 0.33 | 0.36 | 0.41 | 0.42 | 0.48 | 0.48 | 0.52 | 0.50 | 0.53 | 0.49 | 0.48 | 0.43 | 0.42 | 0.38 | 0.35 | 0.31 | 0.28 | 0.34 |
| 90 | 0.10 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 | 0.10 | 0.08 | 0.11 | 0.10 | 0.10 | 0.08 | 0.10 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.14 |
| 95 | 0.11 | 0.11 | 0.09 | 0.10 | 0.09 | 0.10 | 0.08 | 0.09 | 0.08 | 0.10 | 0.08 | 0.10 | 0.08 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.18 |
| 100 | 0.16 | 0.16 | 0.14 | 0.15 | 0.12 | 0.14 | 0.11 | 0.13 | 0.11 | 0.14 | 0.12 | 0.13 | 0.12 | 0.14 | 0.13 | 0.15 | 0.14 | 0.16 | 0.25 |
| 105 | 0.28 | 0.26 | 0.24 | 0.24 | 0.21 | 0.22 | 0.20 | 0.21 | 0.20 | 0.22 | 0.21 | 0.23 | 0.23 | 0.23 | 0.24 | 0.25 | 0.24 | 0.26 | 0.37 |
| 110 | 0.41 | 0.39 | 0.37 | 0.36 | 0.35 | 0.34 | 0.33 | 0.34 | 0.33 | 0.35 | 0.34 | 0.35 | 0.35 | 0.36 | 0.35 | 0.37 | 0.37 | 0.39 | 0.51 |
| 115 | 0.59 | 0.56 | 0.53 | 0.52 | 0.50 | 0.50 | 0.48 | 0.49 | 0.49 | 0.51 | 0.50 | 0.51 | 0.51 | 0.52 | 0.51 | 0.53 | 0.53 | 0.56 | 0.70 |
| 120 | 0.80 | 0.77 | 0.74 | 0.72 | 0.70 | 0.69 | 0.68 | 0.68 | 0.69 | 0.71 | 0.70 | 0.70 | 0.71 | 0.71 | 0.72 | 0.73 | 0.74 | 0.77 | 0.94 |
| 125 | 1.08 | 1.04 | 1.01 | 0.98 | 0.96 | 0.95 | 0.94 | 0.93 | 0.94 | 0.96 | 0.96 | 0.95 | 0.96 | 0.97 | 0.98 | 0.99 | 1.02 | 1.04 | 1.24 |
| 130 | 1.47 | 1.40 | 1.36 | 1.32 | 1.30 | 1.28 | 1.27 | 1.26 | 1.28 | 1.30 | 1.29 | 1.27 | 1.29 | 1.29 | 1.32 | 1.33 | 1.37 | 1.39 | 1.63 |
| 135 | 1.92 | 1.82 | 1.77 | 1.73 | 1.71 | 1.68 | 1.67 | 1.67 | 1.69 | 1.73 | 1.70 | 1.69 | 1.69 | 1.69 | 1.72 | 1.74 | 1.79 | 1.82 | 2.03 |
| 140 | 2.47 | 2.29 | 2.23 | 2.18 | 2.15 | 2.12 | 2.11 | 2.10 | 2.14 | 2.17 | 2.15 | 2.11 | 2.12 | 2.13 | 2.16 | 2.19 | 2.24 | 2.28 | 2.47 |
| 145 | 2.84 | 2.73 | 2.66 | 2.62 | 2.59 | 2.55 | 2.55 | 2.53 | 2.57 | 2.58 | 2.57 | 2.54 | 2.56 | 2.55 | 2.60 | 2.62 | 2.67 | 2.72 | 2.87 |
| 150 | 3.16 | 3.09 | 3.04 | 2.99 | 2.97 | 2.94 | 2.94 | 2.93 | 2.96 | 2.96 | 2.95 | 2.93 | 2.94 | 2.93 | 2.96 | 2.99 | 3.04 | 3.08 | 3.20 |
| 155 | 3.38 | 3.35 | 3.30 | 3.27 | 3.25 | 3.24 | 3.24 | 3.24 | 3.26 | 3.26 | 3.24 | 3.21 | 3.21 | 3.21 | 3.22 | 3.24 | 3.27 | 3.30 | 3.40 |
| 160 | 3.48 | 3.46 | 3.42 | 3.41 | 3.40 | 3.41 | 3.39 | 3.39 | 3.41 | 3.41 | 3.38 | 3.36 | 3.35 | 3.36 | 3.35 | 3.35 | 3.36 | 3.37 | 3.49 |
| 165 | 3.50 | 3.50 | 3.48 | 3.47 | 3.46 | 3.46 | 3.45 | 3.46 | 3.48 | 3.47 | 3.46 | 3.44 | 3.43 | 3.42 | 3.43 | 3.42 | 3.42 | 3.41 | 3.46 |
| 170 | 3.47 | 3.48 | 3.48 | 3.48 | 3.46 | 3.46 | 3.45 | 3.46 | 3.46 | 3.46 | 3.44 | 3.43 | 3.42 | 3.42 | 3.42 | 3.43 | 3.41 | 3.38 | 3.44 |
| 175 | 3.46 | 3.48 | 3.48 | 3.50 | 3.50 | 3.51 | 3.49 | 3.47 | 3.47 | 3.46 | 3.45 | 3.45 | 3.45 | 3.47 | 3.46 | 3.43 | 3.40 | 3.36 | 3.46 |
| 180 | 3.49 | 3.49 | 3.49 | 3.51 | 3.51 | 3.51 | 3.48 | 3.46 | 3.47 | 3.47 | 3.47 | 3.47 | 3.49 | 3.51 | 3.50 | 3.47 | 3.44 | 3.43 | 3.50 |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---------------------|------------------|------------------|
| NAME: | TYPE:4000K CRI90 | WEIGHT: |
| SPEC.:RAR40R-12-40K | DIM.: | SERIAL No.:1 |
| MFR.: RAYHIL | SUR.:#55MM | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | 1201 | | |
| 5 | 1147 | 1138 | 1141 | 1133 | 1135 | 1129 | 1132 | 1132 | 1134 | 1141 | 1140 | 1148 | 1148 | 1159 | 1163 | 1174 | 1176 | | |
| 10 | 984 | 969 | 957 | 943 | 931 | 922 | 914 | 916 | 909 | 919 | 915 | 929 | 930 | 947 | 955 | 979 | 991 | | |
| 15 | 737 | 719 | 698 | 683 | 666 | 659 | 649 | 650 | 645 | 655 | 651 | 664 | 666 | 685 | 693 | 717 | 730 | | |
| 20 | 519 | 500 | 485 | 473 | 459 | 459 | 452 | 458 | 457 | 463 | 458 | 465 | 465 | 480 | 483 | 497 | 501 | | |
| 25 | 380 | 367 | 353 | 351 | 343 | 342 | 338 | 344 | 349 | 356 | 349 | 348 | 347 | 356 | 360 | 363 | 360 | | |
| 30 | 299 | 290 | 287 | 290 | 288 | 286 | 284 | 292 | 303 | 311 | 310 | 305 | 301 | 303 | 299 | 290 | 281 | | |
| 35 | 264 | 261 | 262 | 263 | 261 | 261 | 260 | 270 | 280 | 282 | 278 | 275 | 278 | 279 | 265 | 250 | 245 | | |
| 40 | 205 | 198 | 187 | 179 | 168 | 167 | 157 | 166 | 168 | 169 | 166 | 174 | 190 | 208 | 197 | 198 | 205 | | |
| 45 | 60.4 | 54.6 | 53.4 | 45.1 | 50.8 | 41.9 | 41.0 | 41.6 | 41.7 | 42.5 | 42.7 | 44.6 | 51.9 | 53.3 | 55.5 | 63.5 | 70.6 | | |
| 50 | 34.3 | 33.2 | 32.1 | 31.5 | 30.6 | 30.2 | 29.7 | 29.9 | 30.0 | 30.4 | 30.7 | 31.4 | 32.0 | 32.9 | 33.3 | 33.8 | 33.9 | | |
| 55 | 28.0 | 27.1 | 26.1 | 25.5 | 24.7 | 24.4 | 23.9 | 24.1 | 24.0 | 24.4 | 24.6 | 25.2 | 25.5 | 26.2 | 26.6 | 27.1 | 27.3 | | |
| 60 | 21.7 | 21.0 | 20.1 | 19.7 | 18.9 | 18.7 | 18.2 | 18.4 | 18.3 | 18.7 | 18.8 | 19.3 | 19.5 | 20.0 | 20.2 | 20.7 | 21.0 | | |
| 65 | 15.9 | 15.4 | 14.6 | 14.2 | 13.7 | 13.6 | 13.2 | 13.3 | 13.1 | 13.3 | 13.3 | 13.7 | 13.9 | 14.4 | 14.6 | 15.1 | 15.2 | | |
| 70 | 11.1 | 10.8 | 10.2 | 10.0 | 9.52 | 9.32 | 8.92 | 8.87 | 8.68 | 8.77 | 8.75 | 9.07 | 9.26 | 9.76 | 9.99 | 10.5 | 10.6 | | |
| 75 | 6.83 | 6.56 | 6.02 | 5.75 | 5.23 | 5.06 | 4.76 | 4.77 | 4.67 | 4.81 | 4.82 | 5.08 | 5.21 | 5.64 | 5.87 | 6.32 | 6.52 | | |
| 80 | 1.54 | 1.31 | 1.04 | 0.96 | 0.86 | 0.82 | 0.75 | 0.76 | 0.73 | 0.77 | 0.77 | 0.85 | 0.89 | 1.05 | 1.16 | 1.63 | 1.84 | | |
| 85 | 0.29 | 0.26 | 0.24 | 0.23 | 0.21 | 0.19 | 0.19 | 0.18 | 0.20 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.26 | 0.28 | 0.31 | | |
| 90 | 0.14 | 0.14 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.15 | 0.14 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.13 | 0.14 | 0.14 | | |
| 95 | 0.17 | 0.18 | 0.17 | 0.20 | 0.18 | 0.20 | 0.19 | 0.21 | 0.20 | 0.20 | 0.18 | 0.20 | 0.18 | 0.19 | 0.17 | 0.18 | 0.16 | | |
| 100 | 0.24 | 0.27 | 0.26 | 0.29 | 0.29 | 0.30 | 0.30 | 0.31 | 0.30 | 0.31 | 0.29 | 0.30 | 0.28 | 0.29 | 0.26 | 0.27 | 0.24 | | |
| 105 | 0.36 | 0.39 | 0.39 | 0.42 | 0.42 | 0.43 | 0.43 | 0.45 | 0.44 | 0.45 | 0.43 | 0.43 | 0.42 | 0.41 | 0.39 | 0.39 | 0.36 | | |
| 110 | 0.51 | 0.54 | 0.55 | 0.57 | 0.58 | 0.60 | 0.60 | 0.62 | 0.62 | 0.63 | 0.61 | 0.60 | 0.58 | 0.58 | 0.55 | 0.54 | 0.52 | | |
| 115 | 0.70 | 0.72 | 0.74 | 0.77 | 0.79 | 0.81 | 0.82 | 0.83 | 0.84 | 0.84 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | | |
| 120 | 0.95 | 0.97 | 1.00 | 1.03 | 1.06 | 1.08 | 1.10 | 1.11 | 1.13 | 1.12 | 1.10 | 1.09 | 1.06 | 1.05 | 1.01 | 0.99 | 0.96 | | |
| 125 | 1.27 | 1.29 | 1.33 | 1.36 | 1.40 | 1.41 | 1.44 | 1.46 | 1.48 | 1.46 | 1.45 | 1.42 | 1.40 | 1.37 | 1.34 | 1.30 | 1.28 | | |
| 130 | 1.67 | 1.68 | 1.71 | 1.75 | 1.78 | 1.81 | 1.84 | 1.89 | 1.90 | 1.90 | 1.86 | 1.82 | 1.80 | 1.76 | 1.73 | 1.68 | 1.67 | | |
| 135 | 2.09 | 2.10 | 2.13 | 2.15 | 2.19 | 2.21 | 2.26 | 2.30 | 2.32 | 2.32 | 2.28 | 2.24 | 2.23 | 2.17 | 2.15 | 2.10 | 2.09 | | |
| 140 | 2.52 | 2.51 | 2.55 | 2.56 | 2.60 | 2.62 | 2.66 | 2.68 | 2.70 | 2.69 | 2.69 | 2.65 | 2.63 | 2.58 | 2.57 | 2.53 | 2.53 | | |
| 145 | 2.90 | 2.90 | 2.93 | 2.94 | 2.96 | 2.98 | 3.01 | 3.04 | 3.08 | 3.07 | 3.05 | 3.01 | 2.99 | 2.96 | 2.95 | 2.92 | 2.90 | | |
| 150 | 3.21 | 3.21 | 3.23 | 3.21 | 3.23 | 3.24 | 3.27 | 3.32 | 3.35 | 3.35 | 3.33 | 3.28 | 3.26 | 3.24 | 3.24 | 3.23 | 3.22 | | |
| 155 | 3.40 | 3.39 | 3.39 | 3.38 | 3.37 | 3.39 | 3.39 | 3.43 | 3.47 | 3.48 | 3.45 | 3.42 | 3.39 | 3.39 | 3.39 | 3.38 | 3.39 | | |
| 160 | 3.45 | 3.43 | 3.43 | 3.44 | 3.44 | 3.43 | 3.43 | 3.45 | 3.48 | 3.49 | 3.47 | 3.46 | 3.45 | 3.43 | 3.41 | 3.40 | 3.43 | | |
| 165 | 3.50 | 3.44 | 3.43 | 3.44 | 3.44 | 3.45 | 3.46 | 3.48 | 3.50 | 3.52 | 3.51 | 3.49 | 3.46 | 3.45 | 3.41 | 3.43 | 3.44 | | |
| 170 | 3.43 | 3.43 | 3.42 | 3.41 | 3.39 | 3.39 | 3.39 | 3.41 | 3.44 | 3.45 | 3.45 | 3.44 | 3.42 | 3.40 | 3.39 | 3.40 | 3.41 | | |
| 175 | 3.44 | 3.45 | 3.47 | 3.46 | 3.45 | 3.43 | 3.41 | 3.42 | 3.43 | 3.44 | 3.45 | 3.48 | 3.47 | 3.46 | 3.44 | 3.42 | 3.41 | | |
| 180 | 3.49 | 3.50 | 3.50 | 3.52 | 3.50 | 3.48 | 3.46 | 3.47 | 3.47 | 3.47 | 3.47 | 3.49 | 3.50 | 3.50 | 3.47 | 3.44 | 3.43 | | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks: