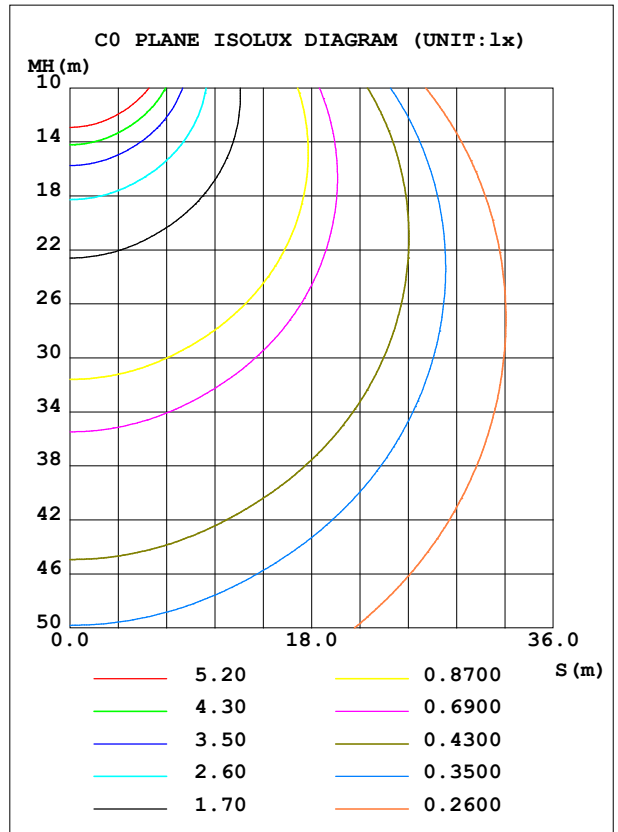
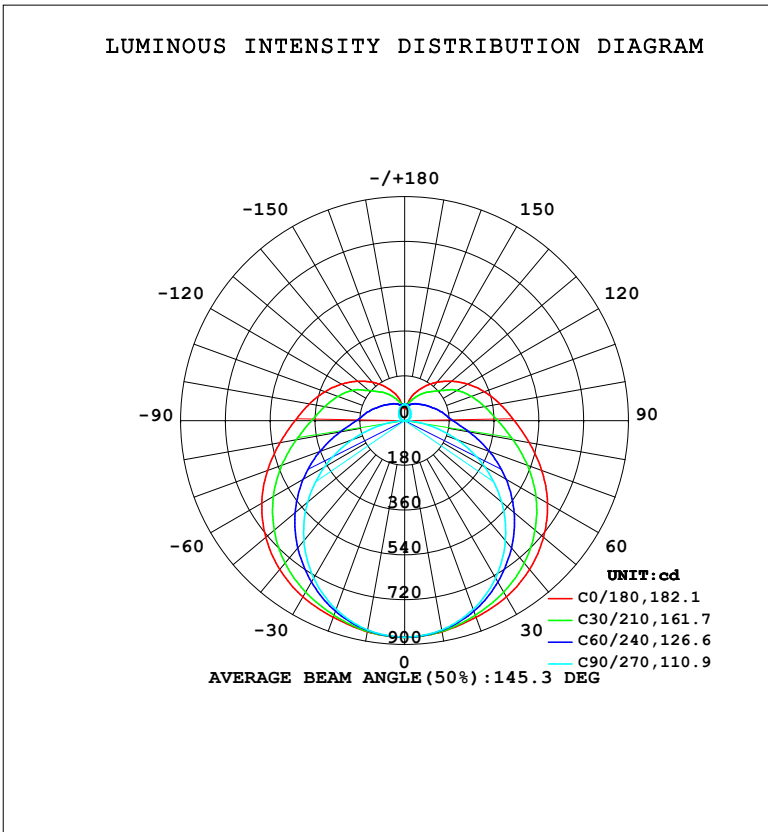


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz | | |
| UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|---------|-----------------------------------|---------|--------------------------------------------|-----------|
| MODEL | TP01 | Imax (cd) | 870.8 | S/MH (C0/180) | 1.42 |
| NOMINAL POWER (W) | 27 | LOR (%) | 100.0 | S/MH (C90/270) | 1.25 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 4459.7 | <input type="checkbox"/> UP, DN (C0-180) | 11.9,38.1 |
| NOMINAL FLUX (lm) | 4459.74 | CIE CLASS | SEMI-D. | <input type="checkbox"/> UP, DN (C180-360) | 11.9,38.1 |
| LAMPS INSIDE | 1 | <input type="checkbox"/> up (%) | 23.9 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE (V) | 100 | <input type="checkbox"/> down (%) | 76.1 | CIBSE SHR MAX | 1.55 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: QC
 Test Date: 2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity: 65.0%
 Test Distance: 10.640m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| ° | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | ° | □ zone | □ total | %lum,lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|-----------|
| 10 | 861.7 | 858.2 | 854.4 | 858.2 | 861.7 | 858.2 | 854.4 | 858.2 | 0- 10 | 82.51 | 82.51 | 1.85,1.85 |
| 20 | 840.8 | 823.2 | 807.1 | 823.2 | 840.8 | 823.2 | 807.1 | 823.2 | 10- 20 | 238.3 | 320.8 | 7.19,7.19 |
| 30 | 817.7 | 772.4 | 730.7 | 772.4 | 817.7 | 772.4 | 730.7 | 772.4 | 20- 30 | 369.4 | 690.2 | 15.5,15.5 |
| 40 | 781.1 | 710.1 | 630.0 | 710.1 | 781.1 | 710.1 | 630.0 | 710.1 | 30- 40 | 465.0 | 1155 | 25.9,25.9 |
| 50 | 728.8 | 634.4 | 509.1 | 634.4 | 728.8 | 634.4 | 509.1 | 634.4 | 40- 50 | 516.1 | 1671 | 37.5,37.5 |
| 60 | 662.8 | 547.3 | 371.2 | 547.3 | 662.8 | 547.3 | 371.2 | 547.3 | 50- 60 | 519.2 | 2191 | 49.1,49.1 |
| 70 | 586.8 | 453.8 | 223.9 | 453.8 | 586.8 | 453.8 | 223.9 | 453.8 | 60- 70 | 477.6 | 2668 | 59.8,59.8 |
| 80 | 508.0 | 363.9 | 83.88 | 363.9 | 508.0 | 363.9 | 83.88 | 363.9 | 70- 80 | 403.3 | 3071 | 68.9,68.9 |
| 90 | 441.3 | 296.1 | 6.265 | 296.1 | 441.3 | 296.1 | 6.265 | 296.1 | 80- 90 | 323.3 | 3395 | 76.1,76.1 |
| 100 | 389.3 | 254.1 | 10.53 | 254.1 | 389.3 | 254.1 | 10.53 | 254.1 | 90-100 | 269.0 | 3664 | 82.2,82.2 |
| 110 | 341.8 | 219.3 | 16.42 | 219.3 | 341.8 | 219.3 | 16.42 | 219.3 | 100-110 | 228.3 | 3892 | 87.3,87.3 |
| 120 | 294.2 | 177.0 | 23.19 | 177.0 | 294.2 | 177.0 | 23.19 | 177.0 | 110-120 | 185.4 | 4077 | 91.4,91.4 |
| 130 | 247.1 | 146.1 | 29.81 | 146.1 | 247.1 | 146.1 | 29.81 | 146.1 | 120-130 | 142.3 | 4220 | 94.6,94.6 |
| 140 | 201.7 | 120.1 | 37.46 | 120.1 | 201.7 | 120.1 | 37.46 | 120.1 | 130-140 | 102.6 | 4322 | 96.9,96.9 |
| 150 | 158.3 | 99.12 | 45.91 | 99.12 | 158.3 | 99.12 | 45.91 | 99.12 | 140-150 | 68.95 | 4391 | 98.5,98.5 |
| 160 | 117.6 | 81.97 | 55.27 | 81.97 | 117.6 | 81.97 | 55.27 | 81.97 | 150-160 | 41.51 | 4433 | 99.4,99.4 |
| 170 | 65.42 | 67.20 | 63.08 | 67.20 | 65.42 | 67.20 | 63.08 | 67.20 | 160-170 | 20.88 | 4454 | 99.9,99.9 |
| 180 | 49.42 | 65.96 | 67.44 | 65.96 | 49.42 | 65.96 | 67.44 | 65.96 | 170-180 | 6.102 | 4460 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 1409.9 lm

%lum = 31.6%

%lamp = 31.6%

Conical surface Flux(130deg): 2437 lm

%lum = 54.6%

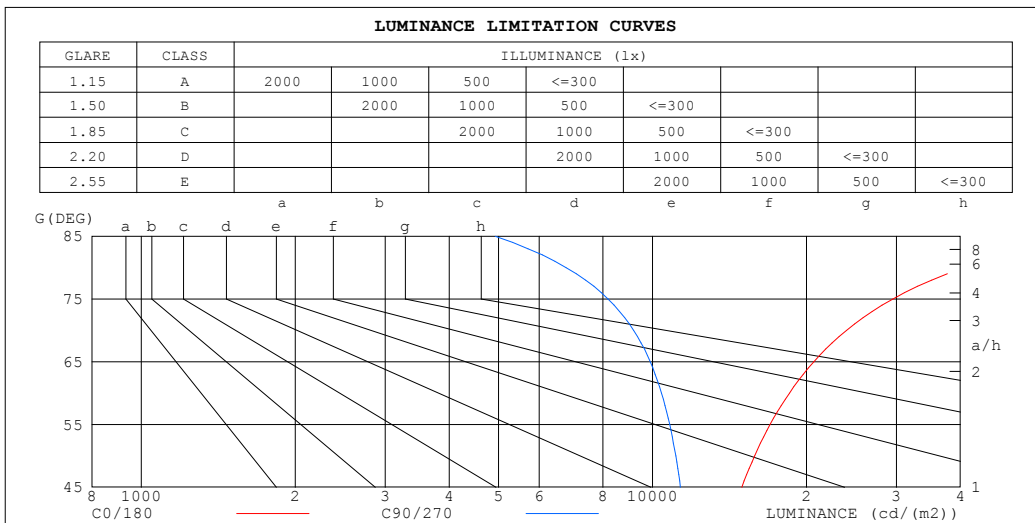
%lamp = 54.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 75759 | 4926 |
| 80 | 40874 | 6774 |
| 75 | 29525 | 8184 |
| 70 | 23971 | 9181 |
| 65 | 20687 | 9898 |
| 60 | 18521 | 10410 |
| 55 | 16983 | 10801 |
| 50 | 15840 | 11105 |
| 45 | 14949 | 11342 |

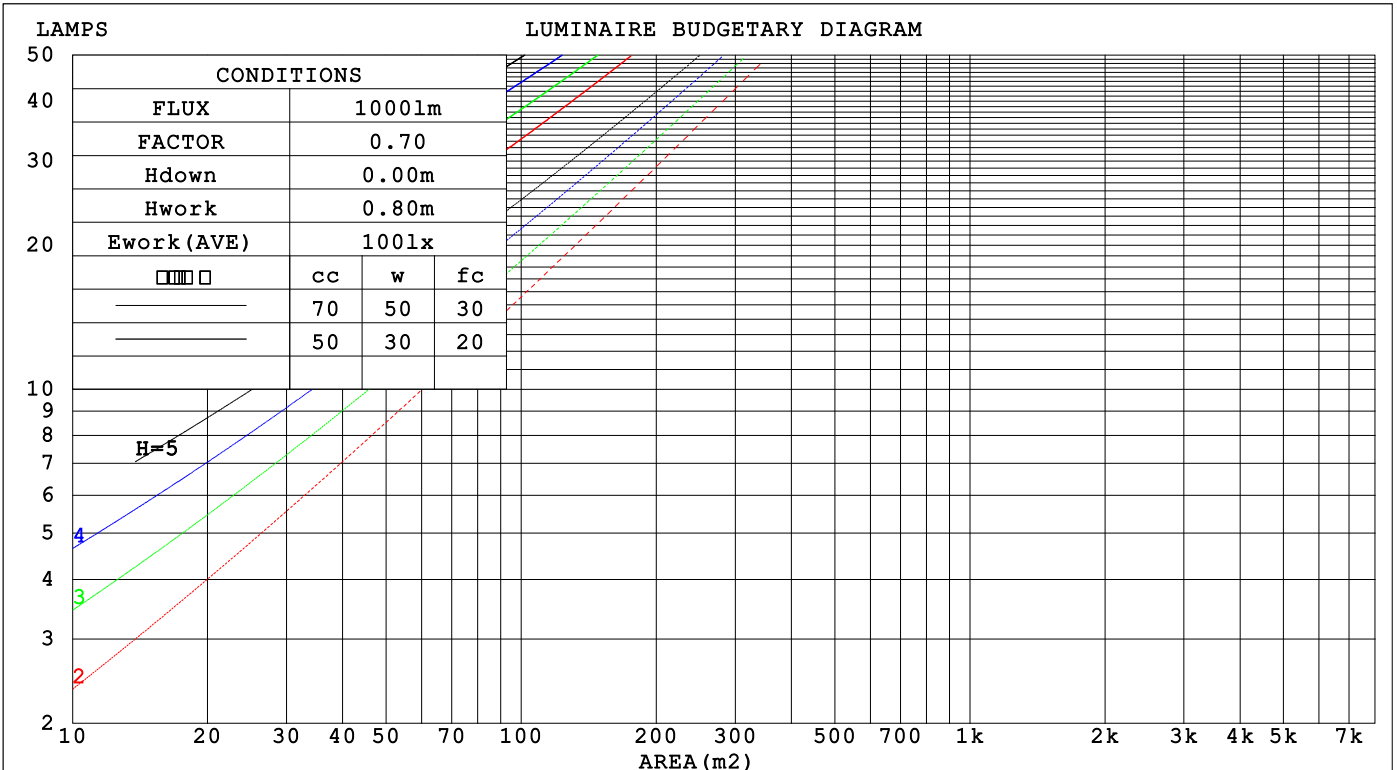
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: QC
 Test Date: 2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity: 65.0%
 Test Distance: 10.640m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz | | |
| UTHDI:0.21% ITHDI:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | |
|-----------------------------|-----------------------|------|------|------|------|------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <input type="checkbox"/> cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| <input type="checkbox"/> w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| <input type="checkbox"/> fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.13 | 1.13 | 1.13 | 1.08 | 1.08 | 1.08 | .98 | .98 | .98 | .89 | .89 | .89 | .80 | .80 | .80 | .76 |
| 1.0 | .94 | .89 | .84 | .90 | .85 | .81 | .81 | .77 | .74 | .73 | .70 | .67 | .66 | .63 | .61 | .57 |
| 2.0 | .81 | .73 | .66 | .77 | .70 | .64 | .69 | .64 | .59 | .62 | .58 | .54 | .56 | .52 | .49 | .46 |
| 3.0 | .70 | .61 | .54 | .67 | .58 | .52 | .60 | .53 | .48 | .54 | .49 | .44 | .49 | .44 | .40 | .37 |
| 4.0 | .61 | .52 | .45 | .58 | .50 | .43 | .53 | .46 | .40 | .48 | .42 | .37 | .43 | .38 | .34 | .31 |
| 5.0 | .54 | .45 | .38 | .52 | .43 | .37 | .47 | .40 | .34 | .42 | .36 | .32 | .38 | .33 | .29 | .26 |
| 6.0 | .49 | .39 | .33 | .46 | .38 | .32 | .42 | .35 | .30 | .38 | .32 | .27 | .35 | .29 | .25 | .23 |
| 7.0 | .44 | .35 | .29 | .42 | .34 | .28 | .38 | .31 | .26 | .35 | .29 | .24 | .31 | .26 | .22 | .20 |
| 8.0 | .40 | .31 | .25 | .38 | .30 | .24 | .35 | .28 | .23 | .32 | .26 | .21 | .29 | .24 | .20 | .18 |
| 9.0 | .36 | .28 | .22 | .35 | .27 | .22 | .32 | .25 | .20 | .29 | .23 | .19 | .27 | .21 | .18 | .16 |
| 10.0 | .33 | .25 | .20 | .32 | .25 | .20 | .29 | .23 | .18 | .27 | .21 | .17 | .25 | .20 | .16 | .14 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz | | |
| UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | |
|-----------------------------|-----------------------|----------------|----------------|---------------------------------|----------------|---|
| <input type="checkbox"/> cc | 80% | 70% | 50% | 30% | 10% | 0 |
| <input type="checkbox"/> w | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 0 |
| <input type="checkbox"/> fc | 20% | 20% | 20% | 20% | 20% | 0 |
| RCR | RCR:Room Cavity Ratio | | | Wall Exitance Coefficients(WEC) | | |
| 0.0 | | | | | | |
| 1.0 | .381 .217 .069 | .367 .209 .066 | .340 .195 .062 | .315 .181 .058 | .292 .169 .054 | |
| 2.0 | .330 .181 .055 | .317 .174 .054 | .292 .162 .050 | .269 .151 .047 | .248 .141 .044 | |
| 3.0 | .293 .156 .047 | .281 .151 .045 | .259 .140 .043 | .238 .131 .040 | .219 .121 .038 | |
| 4.0 | .264 .137 .040 | .253 .132 .039 | .233 .123 .037 | .214 .115 .035 | .196 .107 .033 | |
| 5.0 | .240 .122 .035 | .230 .118 .034 | .212 .110 .032 | .194 .103 .031 | .178 .095 .029 | |
| 6.0 | .220 .110 .032 | .211 .107 .031 | .194 .099 .029 | .178 .093 .027 | .163 .086 .026 | |
| 7.0 | .203 .100 .028 | .195 .097 .028 | .179 .091 .026 | .165 .084 .025 | .151 .078 .023 | |
| 8.0 | .188 .092 .026 | .181 .089 .025 | .166 .083 .024 | .153 .077 .022 | .140 .072 .021 | |
| 9.0 | .175 .085 .024 | .168 .082 .023 | .155 .077 .022 | .143 .072 .020 | .131 .066 .019 | |
| 10.0 | .164 .079 .022 | .158 .076 .021 | .145 .071 .020 | .134 .066 .019 | .123 .062 .018 | |

| | | | | | | |
|-----------------------------|-----------------------|----------------|----------------|--------------------------------------------|----------------|---|
| <input type="checkbox"/> cc | 80% | 70% | 50% | 30% | 10% | 0 |
| <input type="checkbox"/> w | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 0 |
| <input type="checkbox"/> fc | 20% | 20% | 20% | 20% | 20% | 0 |
| RCR | RCR:Room Cavity Ratio | | | Ceiling Cavity Exitance Coefficients(CCEC) | | |
| 0.0 | .372 .372 .372 | .318 .318 .318 | .217 .217 .217 | .125 .125 .125 | .040 .040 .040 | |
| 1.0 | .369 .339 .312 | .315 .291 .269 | .216 .200 .186 | .124 .116 .108 | .040 .037 .035 | |
| 2.0 | .362 .316 .278 | .310 .272 .240 | .212 .188 .168 | .123 .110 .098 | .039 .035 .032 | |
| 3.0 | .355 .300 .257 | .304 .259 .223 | .209 .180 .156 | .121 .105 .092 | .039 .034 .030 | |
| 4.0 | .347 .288 .243 | .298 .249 .211 | .205 .173 .148 | .118 .102 .088 | .038 .033 .029 | |
| 5.0 | .339 .278 .233 | .291 .241 .203 | .201 .168 .143 | .116 .099 .085 | .037 .032 .028 | |
| 6.0 | .332 .270 .226 | .285 .234 .197 | .197 .164 .139 | .114 .096 .083 | .037 .032 .027 | |
| 7.0 | .325 .264 .221 | .280 .229 .192 | .193 .160 .136 | .112 .094 .081 | .036 .031 .027 | |
| 8.0 | .318 .258 .217 | .274 .224 .189 | .190 .157 .134 | .110 .093 .080 | .036 .030 .026 | |
| 9.0 | .312 .254 .214 | .269 .220 .187 | .186 .155 .132 | .109 .091 .079 | .035 .030 .026 | |
| 10.0 | .307 .249 .211 | .264 .217 .185 | .183 .152 .131 | .107 .090 .078 | .035 .030 .026 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------|------------------|------|-------|------|------|------------------|------|------|------|------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | | | | | | | | | |
| NAME: RH-TP01-28W | | | TYPE: | | | WEIGHT: | | | | |
| SPEC.: | | | DIM.: | | | SERIAL No.: | | | | |
| MFR.: | | | 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 | 16.6 | 17.9 | 17.1 | 18.4 | 19.1 | 14.1 | 15.4 | 14.7 | 16.0 | 16.7 |
| 3H | 19.3 | 20.5 | 19.9 | 21.1 | 21.8 | 15.6 | 16.8 | 16.2 | 17.4 | 18.1 |
| 4H | 20.8 | 21.9 | 21.4 | 22.6 | 23.3 | 16.1 | 17.2 | 16.7 | 17.9 | 18.6 |
| 6H | 22.4 | 23.5 | 23.1 | 24.2 | 24.9 | 16.5 | 17.6 | 17.1 | 18.2 | 19.0 |
| 8H | 23.4 | 24.4 | 24.0 | 25.1 | 25.8 | 16.6 | 17.6 | 17.2 | 18.3 | 19.1 |
| 12H | 24.4 | 25.4 | 25.1 | 26.1 | 26.9 | 16.6 | 17.6 | 17.3 | 18.3 | 19.1 |
| 4H 2H | 17.1 | 18.2 | 17.7 | 18.9 | 19.6 | 15.4 | 16.5 | 16.0 | 17.1 | 17.9 |
| 3H | 20.1 | 21.1 | 20.7 | 21.7 | 22.5 | 17.1 | 18.1 | 17.8 | 18.8 | 19.6 |
| 4H | 21.8 | 22.7 | 22.5 | 23.4 | 24.2 | 17.9 | 18.8 | 18.5 | 19.5 | 20.3 |
| 6H | 23.7 | 24.5 | 24.4 | 25.2 | 26.0 | 18.4 | 19.2 | 19.1 | 19.9 | 20.8 |
| 8H | 24.7 | 25.5 | 25.4 | 26.2 | 27.1 | 18.6 | 19.3 | 19.3 | 20.1 | 20.9 |
| 12H | 25.9 | 26.6 | 26.7 | 27.4 | 28.3 | 18.7 | 19.4 | 19.4 | 20.1 | 21.0 |
| 8H 4H | 22.1 | 22.9 | 22.8 | 23.6 | 24.5 | 19.0 | 19.8 | 19.8 | 20.5 | 21.4 |
| 6H | 24.3 | 24.9 | 25.1 | 25.7 | 26.6 | 20.0 | 20.7 | 20.8 | 21.4 | 22.3 |
| 8H | 25.6 | 26.1 | 26.3 | 26.9 | 27.8 | 20.5 | 21.0 | 21.2 | 21.8 | 22.7 |
| 12H | 27.1 | 27.6 | 27.8 | 28.4 | 29.3 | 20.8 | 21.3 | 21.5 | 22.0 | 23.0 |
| 12H 4H | 22.1 | 22.8 | 22.9 | 23.6 | 24.4 | 19.4 | 20.1 | 20.2 | 20.9 | 21.8 |
| 6H | 24.4 | 25.0 | 25.2 | 25.8 | 26.7 | 20.7 | 21.3 | 21.5 | 22.0 | 23.0 |
| 8H | 25.8 | 26.3 | 26.6 | 27.1 | 28.0 | 21.3 | 21.8 | 22.1 | 22.6 | 23.6 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.2 | | | | |
| 2.0H | + 0.3 / - 0.4 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117, 4460 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.2)
 Area: 0.0714 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---------------------------------------------------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

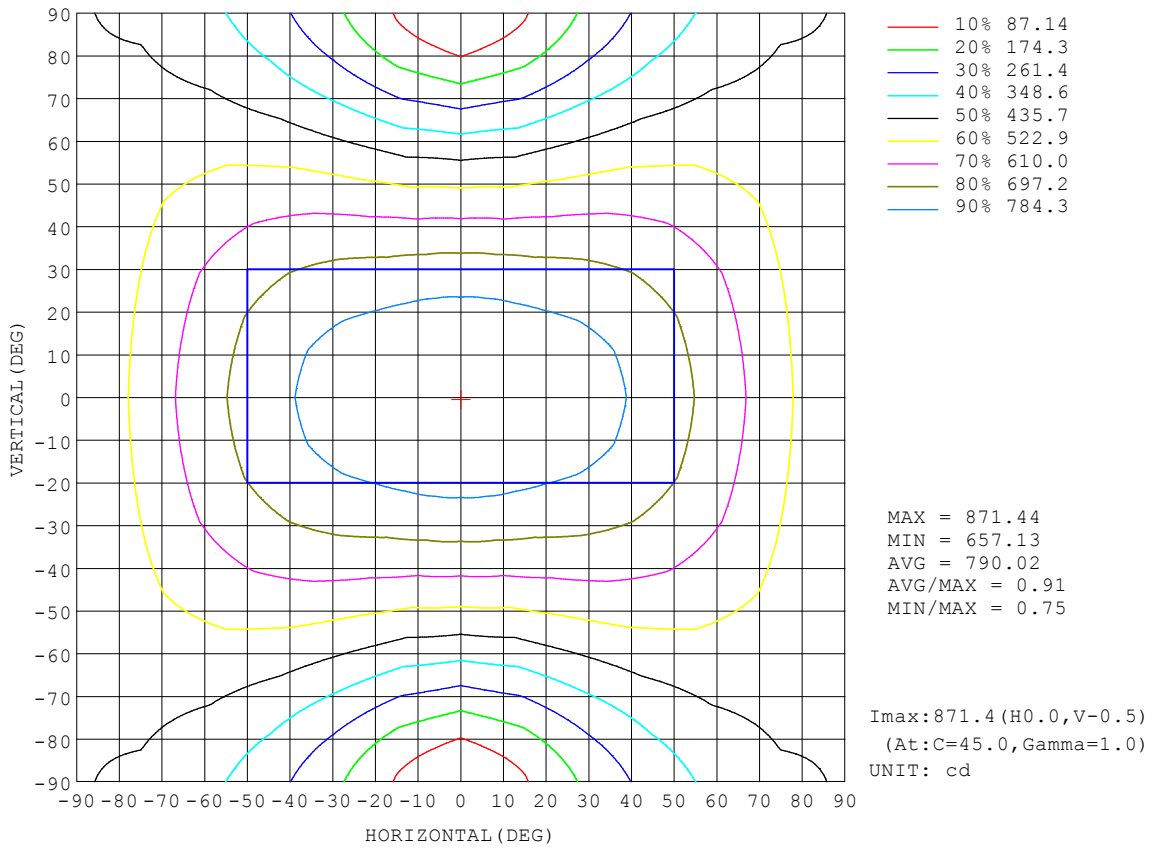
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 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 | 46 | 34 | 26 | 45 | 33 | 26 | 42 | 32 | 25 | 19 |
| 0.80 | 55 | 42 | 34 | 53 | 41 | 33 | 50 | 39 | 32 | 24 |
| 1.00 | 63 | 50 | 41 | 61 | 48 | 41 | 56 | 48 | 39 | 30 |
| 1.25 | 70 | 57 | 48 | 67 | 55 | 47 | 62 | 52 | 45 | 35 |
| 1.50 | 75 | 62 | 54 | 72 | 61 | 53 | 66 | 57 | 50 | 39 |
| 2.00 | 82 | 71 | 63 | 79 | 68 | 61 | 72 | 64 | 57 | 45 |
| 2.50 | 87 | 76 | 68 | 83 | 74 | 66 | 76 | 68 | 62 | 48 |
| 3.00 | 91 | 81 | 74 | 86 | 78 | 71 | 79 | 72 | 66 | 52 |
| 4.00 | 95 | 87 | 81 | 91 | 84 | 78 | 83 | 77 | 72 | 56 |
| 5.00 | 98 | 91 | 85 | 94 | 87 | 82 | 85 | 80 | 76 | 59 |
| 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:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---------------------------------------------------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

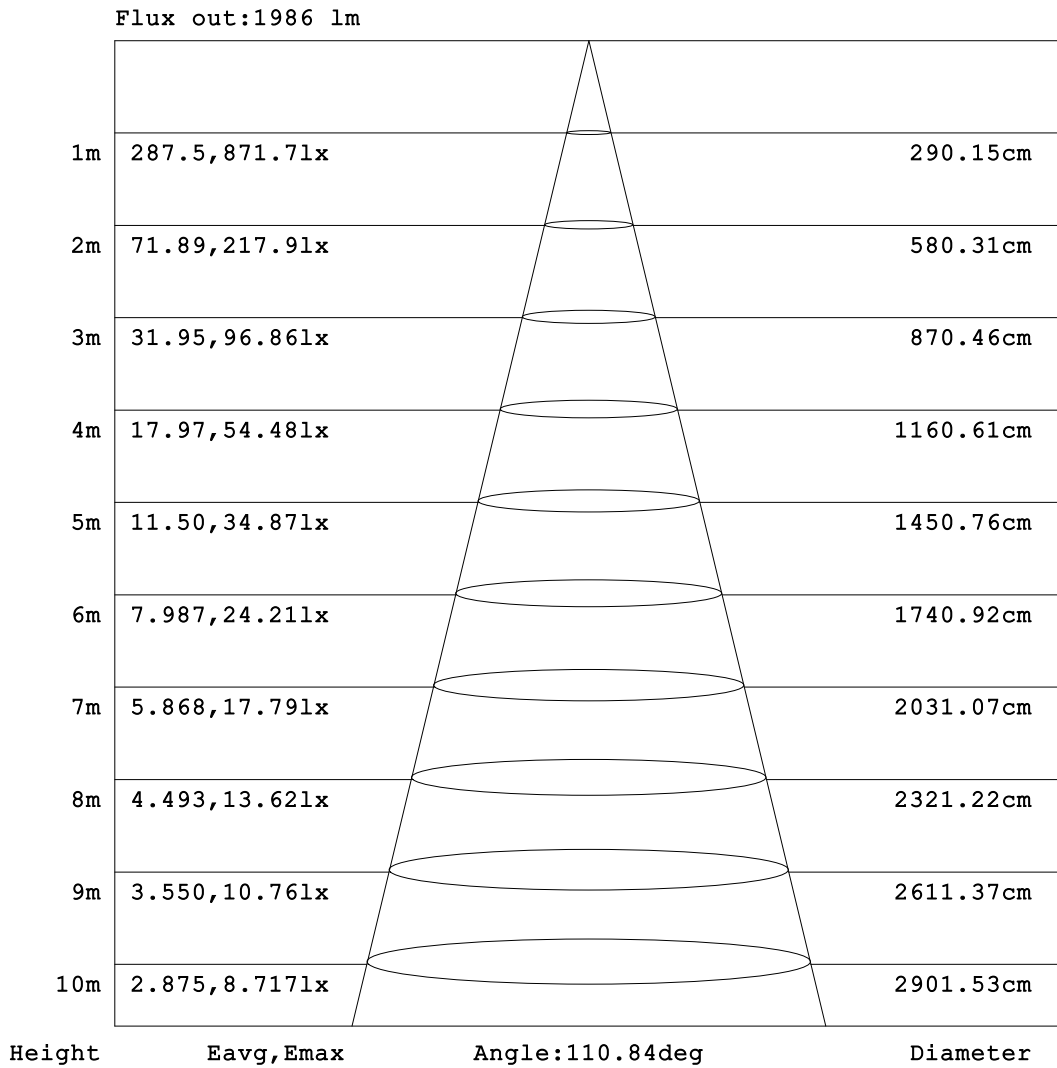


C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|---------------------------------------------------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



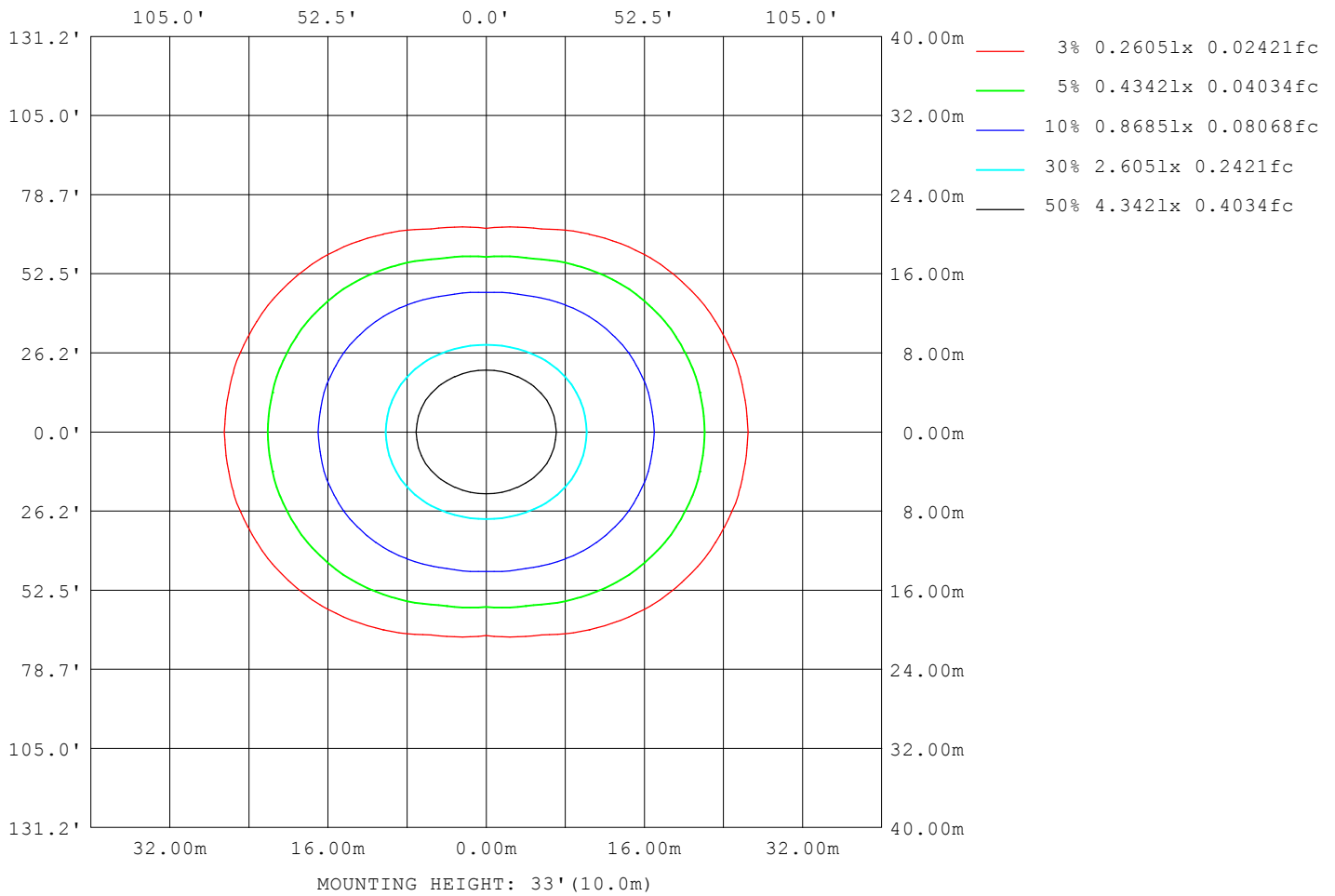
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: QC
 Test Date: 2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity: 65.0%
 Test Distance: 10.640m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---------------------------------------------------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---------------------------------------------------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

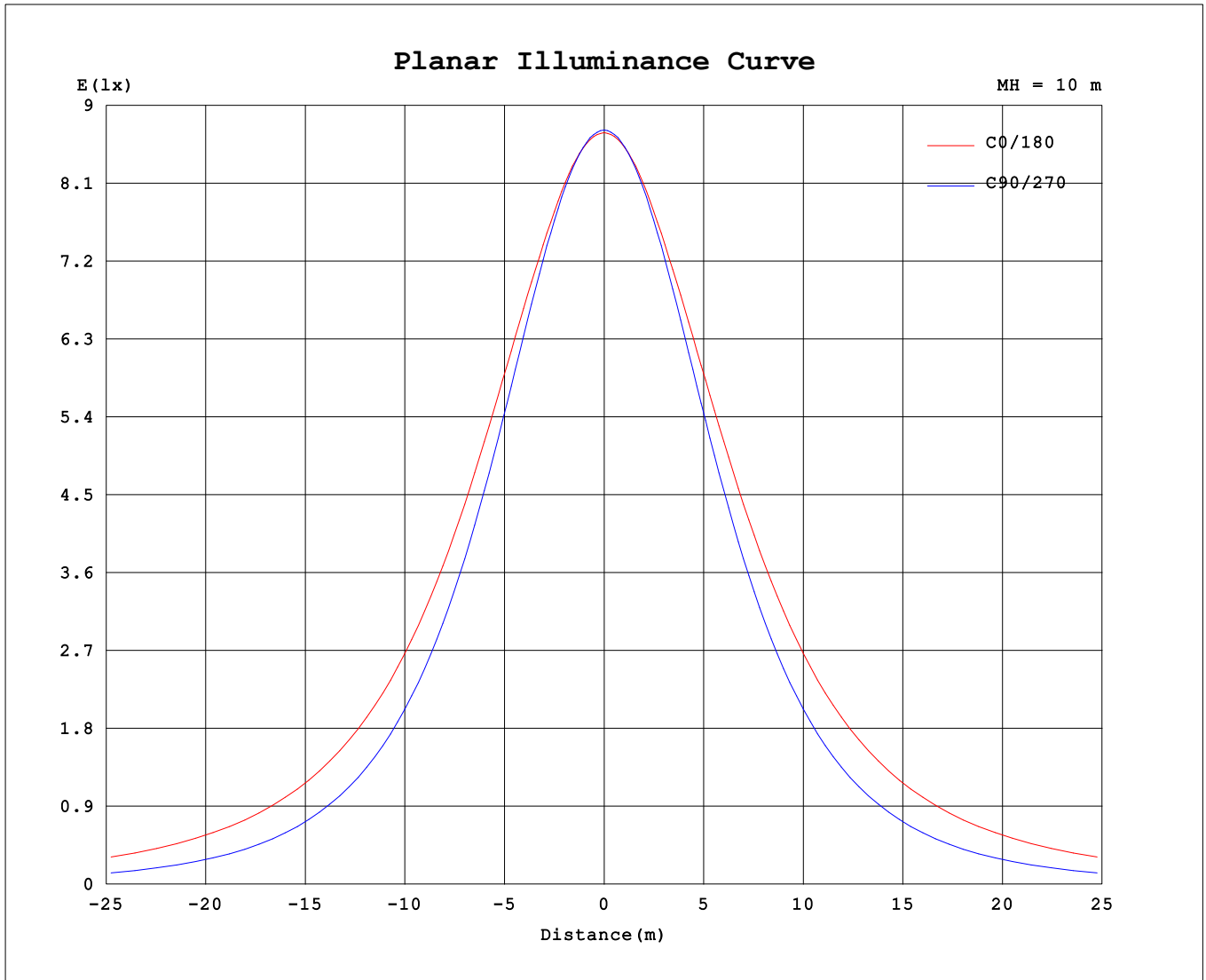
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 20738 |
| L_0~180 (75) av | 29598 |
| L_0~180 (85) av | 75946 |
| L_90~270 (65) av | 9885 |
| L_90~270 (75) av | 8174 |
| L_90~270 (85) av | 4920 |
| L_45 (65) av | 16598 |
| L_45 (75) av | 22042 |
| L_45 (85) av | 52424 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: QC
 Test Date: 2022-06-17

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity: 65.0%
 Test Distance: 10.640m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz | | |
| UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) □ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 | 871 |
| 5 | 868 | 868 | 868 | 868 | 867 | 867 | 866 | 867 | 867 | 868 | 868 | 868 | 868 | 868 | 868 | 868 | 867 | 867 | 866 |
| 10 | 862 | 861 | 860 | 858 | 856 | 855 | 854 | 855 | 856 | 858 | 860 | 861 | 862 | 861 | 860 | 858 | 856 | 855 | 854 |
| 15 | 851 | 851 | 848 | 844 | 839 | 836 | 834 | 836 | 839 | 844 | 848 | 851 | 851 | 851 | 848 | 844 | 839 | 836 | 834 |
| 20 | 841 | 838 | 832 | 823 | 815 | 810 | 807 | 810 | 815 | 823 | 832 | 838 | 841 | 838 | 832 | 823 | 815 | 810 | 807 |
| 25 | 830 | 826 | 815 | 799 | 785 | 776 | 772 | 776 | 785 | 799 | 815 | 826 | 830 | 826 | 815 | 799 | 785 | 776 | 772 |
| 30 | 818 | 812 | 796 | 772 | 749 | 736 | 731 | 736 | 749 | 772 | 796 | 812 | 818 | 812 | 796 | 772 | 749 | 736 | 731 |
| 35 | 801 | 794 | 774 | 743 | 710 | 690 | 683 | 690 | 710 | 743 | 774 | 794 | 801 | 794 | 774 | 743 | 710 | 690 | 683 |
| 40 | 781 | 773 | 748 | 710 | 668 | 639 | 630 | 639 | 668 | 710 | 748 | 773 | 781 | 773 | 748 | 710 | 668 | 639 | 630 |
| 45 | 757 | 747 | 718 | 674 | 623 | 584 | 572 | 584 | 623 | 674 | 718 | 747 | 757 | 747 | 718 | 674 | 623 | 584 | 572 |
| 50 | 729 | 718 | 685 | 634 | 575 | 525 | 509 | 525 | 575 | 634 | 685 | 718 | 729 | 718 | 685 | 634 | 575 | 525 | 509 |
| 55 | 697 | 685 | 648 | 592 | 524 | 463 | 442 | 463 | 524 | 592 | 648 | 685 | 697 | 685 | 648 | 592 | 524 | 463 | 442 |
| 60 | 663 | 649 | 609 | 547 | 471 | 399 | 371 | 399 | 471 | 547 | 609 | 649 | 663 | 649 | 609 | 547 | 471 | 399 | 371 |
| 65 | 626 | 611 | 568 | 501 | 417 | 333 | 298 | 333 | 417 | 501 | 568 | 611 | 626 | 611 | 568 | 501 | 417 | 333 | 298 |
| 70 | 587 | 571 | 526 | 454 | 363 | 269 | 224 | 269 | 363 | 454 | 526 | 571 | 587 | 571 | 526 | 454 | 363 | 269 | 224 |
| 75 | 547 | 531 | 483 | 407 | 311 | 206 | 151 | 206 | 311 | 407 | 483 | 531 | 547 | 531 | 483 | 407 | 311 | 206 | 151 |
| 80 | 508 | 491 | 442 | 364 | 263 | 150 | 83.9 | 150 | 263 | 364 | 442 | 491 | 508 | 491 | 442 | 364 | 263 | 150 | 83.9 |
| 85 | 473 | 456 | 406 | 326 | 223 | 106 | 30.6 | 106 | 223 | 326 | 406 | 456 | 473 | 456 | 406 | 326 | 223 | 106 | 30.6 |
| 90 | 441 | 424 | 375 | 296 | 194 | 80.7 | 6.27 | 80.7 | 194 | 296 | 375 | 424 | 441 | 424 | 375 | 296 | 194 | 80.7 | 6.27 |
| 95 | 414 | 397 | 349 | 273 | 175 | 70.2 | 7.96 | 70.2 | 175 | 273 | 349 | 397 | 414 | 397 | 349 | 273 | 175 | 70.2 | 7.96 |
| 100 | 389 | 373 | 327 | 254 | 162 | 65.4 | 10.5 | 65.4 | 162 | 254 | 327 | 373 | 389 | 373 | 327 | 254 | 162 | 65.4 | 10.5 |
| 105 | 366 | 350 | 306 | 237 | 147 | 62.5 | 13.3 | 62.5 | 147 | 237 | 306 | 350 | 366 | 350 | 306 | 237 | 147 | 62.5 | 13.3 |
| 110 | 342 | 327 | 286 | 219 | 136 | 61.2 | 16.4 | 61.2 | 136 | 219 | 286 | 327 | 342 | 327 | 286 | 219 | 136 | 61.2 | 16.4 |
| 115 | 318 | 305 | 266 | 194 | 124 | 59.2 | 19.8 | 59.2 | 124 | 194 | 266 | 305 | 318 | 305 | 266 | 194 | 124 | 59.2 | 19.8 |
| 120 | 294 | 282 | 244 | 177 | 115 | 57.9 | 23.2 | 57.9 | 115 | 177 | 244 | 282 | 294 | 282 | 244 | 177 | 115 | 57.9 | 23.2 |
| 125 | 270 | 259 | 217 | 160 | 107 | 57.7 | 26.5 | 57.7 | 107 | 160 | 217 | 259 | 270 | 259 | 217 | 160 | 107 | 57.7 | 26.5 |
| 130 | 247 | 237 | 189 | 146 | 99.7 | 57.2 | 29.8 | 57.2 | 99.7 | 146 | 189 | 237 | 247 | 237 | 189 | 146 | 99.7 | 57.2 | 29.8 |
| 135 | 224 | 213 | 168 | 133 | 92.9 | 56.6 | 33.3 | 56.6 | 92.9 | 133 | 168 | 213 | 224 | 213 | 168 | 133 | 92.9 | 56.6 | 33.3 |
| 140 | 202 | 188 | 151 | 120 | 87.6 | 56.5 | 37.5 | 56.5 | 87.6 | 120 | 151 | 188 | 202 | 188 | 151 | 120 | 87.6 | 56.5 | 37.5 |
| 145 | 180 | 161 | 136 | 109 | 83.5 | 56.0 | 41.5 | 56.0 | 83.5 | 109 | 136 | 161 | 180 | 161 | 136 | 109 | 83.5 | 56.0 | 41.5 |
| 150 | 158 | 133 | 120 | 99.1 | 79.0 | 55.7 | 45.9 | 55.7 | 79.0 | 99.1 | 120 | 133 | 158 | 133 | 120 | 99.1 | 79.0 | 55.7 | 45.9 |
| 155 | 136 | 114 | 105 | 90.2 | 74.6 | 57.6 | 50.7 | 57.6 | 74.6 | 90.2 | 105 | 114 | 136 | 114 | 105 | 90.2 | 74.6 | 57.6 | 50.7 |
| 160 | 118 | 96.0 | 90.3 | 82.0 | 69.8 | 59.8 | 55.3 | 59.8 | 69.8 | 82.0 | 90.3 | 96.0 | 118 | 96.0 | 90.3 | 82.0 | 69.8 | 59.8 | 55.3 |
| 165 | 95.5 | 80.2 | 77.6 | 73.4 | 66.0 | 61.9 | 59.5 | 61.9 | 66.0 | 73.4 | 77.6 | 80.2 | 95.5 | 80.2 | 77.6 | 73.4 | 66.0 | 61.9 | 59.5 |
| 170 | 65.4 | 65.8 | 66.8 | 67.2 | 66.1 | 63.9 | 63.1 | 63.9 | 66.1 | 67.2 | 66.8 | 65.8 | 65.4 | 65.8 | 66.8 | 67.2 | 66.1 | 63.9 | 63.1 |
| 175 | 51.0 | 57.9 | 64.2 | 66.0 | 66.2 | 65.9 | 65.8 | 65.9 | 66.2 | 66.0 | 64.2 | 57.9 | 51.0 | 57.9 | 64.2 | 66.0 | 66.2 | 65.9 | 65.8 |
| 180 | 49.4 | 57.4 | 64.0 | 66.0 | 66.8 | 67.3 | 67.4 | 67.3 | 66.8 | 66.0 | 64.0 | 57.4 | 49.4 | 57.4 | 64.0 | 66.0 | 66.8 | 67.3 | 67.4 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--------------------------------------------------------------|-------|------------------|
| Test:U:230.42V I:0.1242A P:26.597W PF:0.9296 Freq:49.99Hz | | |
| UTHDi:0.21% ITHDi:12.90% KDisp:0.9435 Lamp Flux:4459.74x1 lm | | |
| NAME: RH-TP01-28W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) □ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 871 | 871 | 871 | 871 | 871 | | | | | | | | | | | | | | |
| 5 | 867 | 867 | 868 | 868 | 868 | | | | | | | | | | | | | | |
| 10 | 855 | 856 | 858 | 860 | 861 | | | | | | | | | | | | | | |
| 15 | 836 | 839 | 844 | 848 | 851 | | | | | | | | | | | | | | |
| 20 | 810 | 815 | 823 | 832 | 838 | | | | | | | | | | | | | | |
| 25 | 776 | 785 | 799 | 815 | 826 | | | | | | | | | | | | | | |
| 30 | 736 | 749 | 772 | 796 | 812 | | | | | | | | | | | | | | |
| 35 | 690 | 710 | 743 | 774 | 794 | | | | | | | | | | | | | | |
| 40 | 639 | 668 | 710 | 748 | 773 | | | | | | | | | | | | | | |
| 45 | 584 | 623 | 674 | 718 | 747 | | | | | | | | | | | | | | |
| 50 | 525 | 575 | 634 | 685 | 718 | | | | | | | | | | | | | | |
| 55 | 463 | 524 | 592 | 648 | 685 | | | | | | | | | | | | | | |
| 60 | 399 | 471 | 547 | 609 | 649 | | | | | | | | | | | | | | |
| 65 | 333 | 417 | 501 | 568 | 611 | | | | | | | | | | | | | | |
| 70 | 269 | 363 | 454 | 526 | 571 | | | | | | | | | | | | | | |
| 75 | 206 | 311 | 407 | 483 | 531 | | | | | | | | | | | | | | |
| 80 | 150 | 263 | 364 | 442 | 491 | | | | | | | | | | | | | | |
| 85 | 106 | 223 | 326 | 406 | 456 | | | | | | | | | | | | | | |
| 90 | 80.7 | 194 | 296 | 375 | 424 | | | | | | | | | | | | | | |
| 95 | 70.2 | 175 | 273 | 349 | 397 | | | | | | | | | | | | | | |
| 100 | 65.4 | 162 | 254 | 327 | 373 | | | | | | | | | | | | | | |
| 105 | 62.5 | 147 | 237 | 306 | 350 | | | | | | | | | | | | | | |
| 110 | 61.2 | 136 | 219 | 286 | 327 | | | | | | | | | | | | | | |
| 115 | 59.2 | 124 | 194 | 266 | 305 | | | | | | | | | | | | | | |
| 120 | 57.9 | 115 | 177 | 244 | 282 | | | | | | | | | | | | | | |
| 125 | 57.7 | 107 | 160 | 217 | 259 | | | | | | | | | | | | | | |
| 130 | 57.2 | 99.7 | 146 | 189 | 237 | | | | | | | | | | | | | | |
| 135 | 56.6 | 92.9 | 133 | 168 | 213 | | | | | | | | | | | | | | |
| 140 | 56.5 | 87.6 | 120 | 151 | 188 | | | | | | | | | | | | | | |
| 145 | 56.0 | 83.5 | 109 | 136 | 161 | | | | | | | | | | | | | | |
| 150 | 55.7 | 79.0 | 99.1 | 120 | 133 | | | | | | | | | | | | | | |
| 155 | 57.6 | 74.6 | 90.2 | 105 | 114 | | | | | | | | | | | | | | |
| 160 | 59.8 | 69.8 | 82.0 | 90.3 | 96.0 | | | | | | | | | | | | | | |
| 165 | 61.9 | 66.0 | 73.4 | 77.6 | 80.2 | | | | | | | | | | | | | | |
| 170 | 63.9 | 66.1 | 67.2 | 66.8 | 65.8 | | | | | | | | | | | | | | |
| 175 | 65.9 | 66.2 | 66.0 | 64.2 | 57.9 | | | | | | | | | | | | | | |
| 180 | 67.3 | 66.8 | 66.0 | 64.0 | 57.4 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-17

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:10.640m [K=1.0000]
 Remarks: