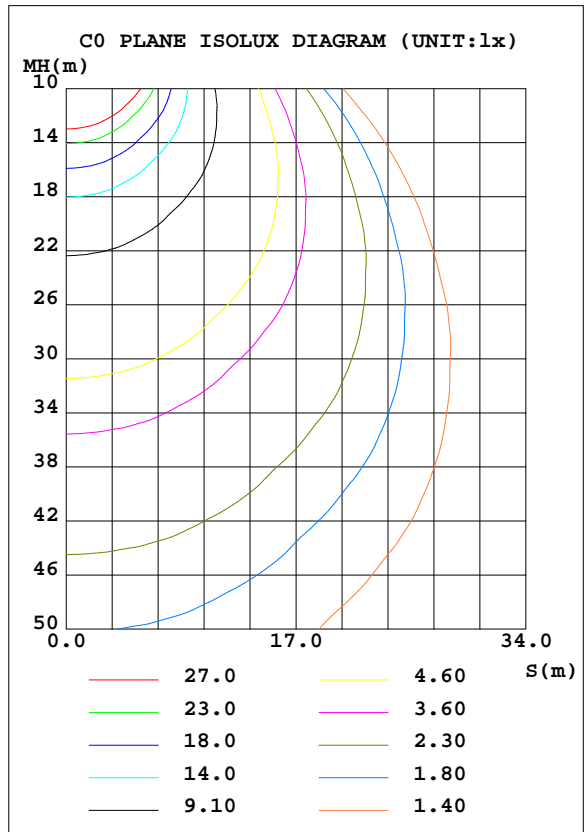
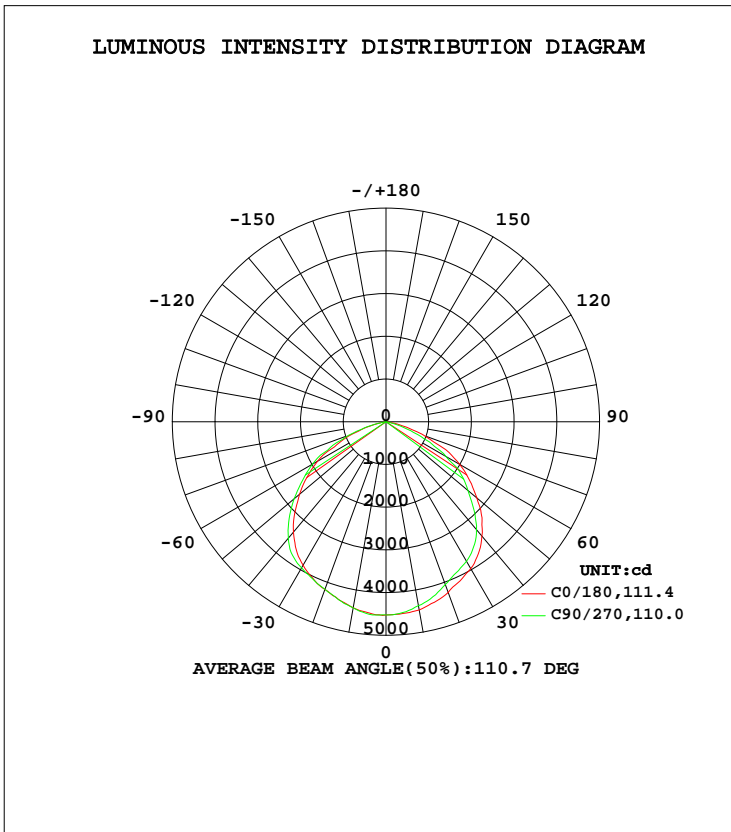


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 115.28 lm/W | | | |
|------------------|---------|-----------------------------------|--------|--------------------|----------|
| MODEL | FUTT07 | I _{max} (cd) | 4533 | S/MH(C0/180) | 1.28 |
| NOMINAL POWER(W) | 100 | LOR(%) | 100.0 | S/MH(C90/270) | 1.31 |
| RATED VOLTAGE(V) | 100-240 | TOTAL FLUX(lm) | 12069 | η UP, DN(C0-180) | 0.1,48.4 |
| NOMINAL FLUX(lm) | 12068.9 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 0.1,51.4 |
| LAMPS INSIDE | 1 | η up(%) | 0.2 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 220 | η down(%) | 99.8 | CIBSE SHR MAX | 1.35 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|-------|--------|-------|---------|---------|---------|------------|
| 10 | 4475 | 4412 | 4370 | 4364 | 4422 | 4417 | 4425 | 4435 | 0- 10 | 427.0 | 427.0 | 3.54,3.54 |
| 20 | 4253 | 4096 | 4057 | 4031 | 4178 | 4127 | 4176 | 4164 | 10- 20 | 1211 | 1638 | 13.6,13.6 |
| 30 | 3968 | 3708 | 3770 | 3631 | 3880 | 3765 | 3951 | 3825 | 20- 30 | 1834 | 3473 | 28.8,28.8 |
| 40 | 3494 | 3347 | 3297 | 3243 | 3369 | 3404 | 3555 | 3486 | 30- 40 | 2270 | 5742 | 47.6,47.6 |
| 50 | 2779 | 2780 | 2504 | 2650 | 2640 | 2876 | 2807 | 2968 | 40- 50 | 2380 | 8122 | 67.3,67.3 |
| 60 | 1991 | 1862 | 1621 | 1750 | 1855 | 1945 | 1989 | 2064 | 50- 60 | 2074 | 10196 | 84.5,84.5 |
| 70 | 960.1 | 885.6 | 620.4 | 718.3 | 827.9 | 1008 | 938.0 | 1138 | 60- 70 | 1380 | 11576 | 95.9,95.9 |
| 80 | 131.4 | 60.29 | 10.54 | 38.03 | 86.44 | 96.63 | 88.50 | 152.7 | 70- 80 | 446.8 | 12023 | 99.6,99.6 |
| 90 | 0.9699 | 0.8098 | 0.4454 | 0.7432 | 0.7314 | 2.117 | 6.433 | 4.135 | 80- 90 | 21.52 | 12044 | 99.8,99.8 |
| 100 | 0.4389 | 0.5886 | 0.2965 | 0.5920 | 1.245 | 1.177 | 0.7417 | 1.112 | 90-100 | 0.7399 | 12045 | 99.8,99.8 |
| 110 | 1.170 | 1.251 | 1.260 | 1.332 | 2.783 | 2.576 | 2.299 | 2.666 | 100-110 | 1.303 | 12046 | 99.8,99.8 |
| 120 | 2.116 | 2.354 | 2.372 | 2.368 | 4.389 | 3.973 | 4.079 | 4.519 | 110-120 | 2.501 | 12049 | 99.8,99.8 |
| 130 | 4.168 | 4.191 | 4.744 | 3.922 | 4.974 | 4.268 | 4.597 | 5.032 | 120-130 | 3.442 | 12052 | 99.9,99.9 |
| 140 | 6.431 | 6.250 | 7.482 | 6.061 | 5.707 | 4.637 | 5.710 | 5.626 | 130-140 | 4.030 | 12056 | 99.9,99.9 |
| 150 | 8.485 | 8.756 | 9.410 | 8.876 | 7.098 | 6.623 | 7.565 | 7.770 | 140-150 | 4.447 | 12061 | 99.9,99.9 |
| 160 | 9.289 | 9.786 | 10.45 | 9.546 | 9.144 | 8.687 | 9.415 | 9.031 | 150-160 | 4.072 | 12065 | 100,100 |
| 170 | 10.61 | 11.03 | 11.85 | 11.03 | 9.948 | 9.934 | 10.53 | 10.88 | 160-170 | 2.836 | 12068 | 100,100 |
| 180 | 11.78 | 11.85 | 11.94 | 11.77 | 11.70 | 11.70 | 11.86 | 11.84 | 170-180 | 1.074 | 12069 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 6945.2 lm

%lum = 57.5%
%lamp = 57.5%

Conical surface Flux(120deg): 10196 lm

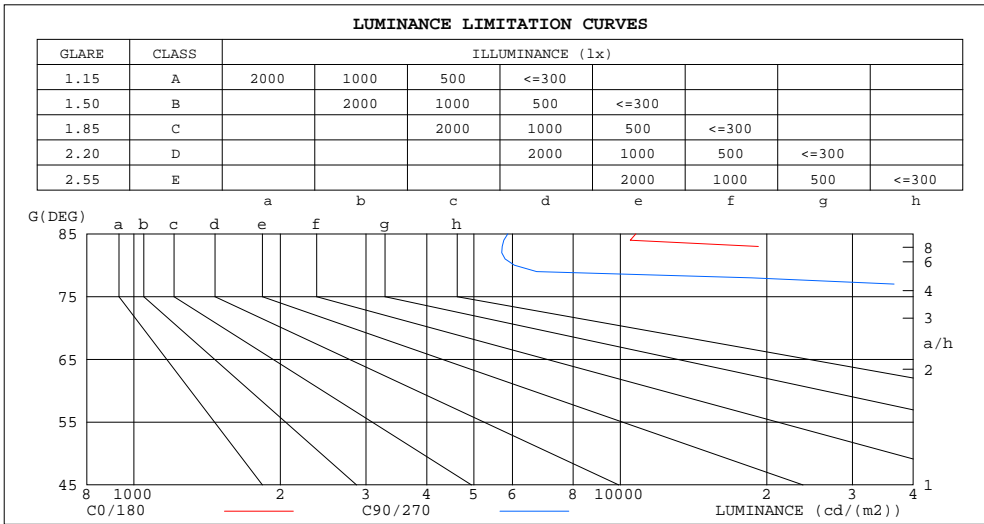
%lum = 84.5%
%lamp = 84.5%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2019-06-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.7%
Test Distance:26.000m [K=1.3952]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 10767 | 5872 |
| 80 | 76177 | 6057 |
| 75 | 195342 | 77293 |
| 70 | 282481 | 181119 |
| 65 | 367364 | 267037 |
| 60 | 400777 | 323767 |
| 55 | 419511 | 373980 |
| 50 | 435014 | 388959 |
| 45 | 452494 | 411236 |

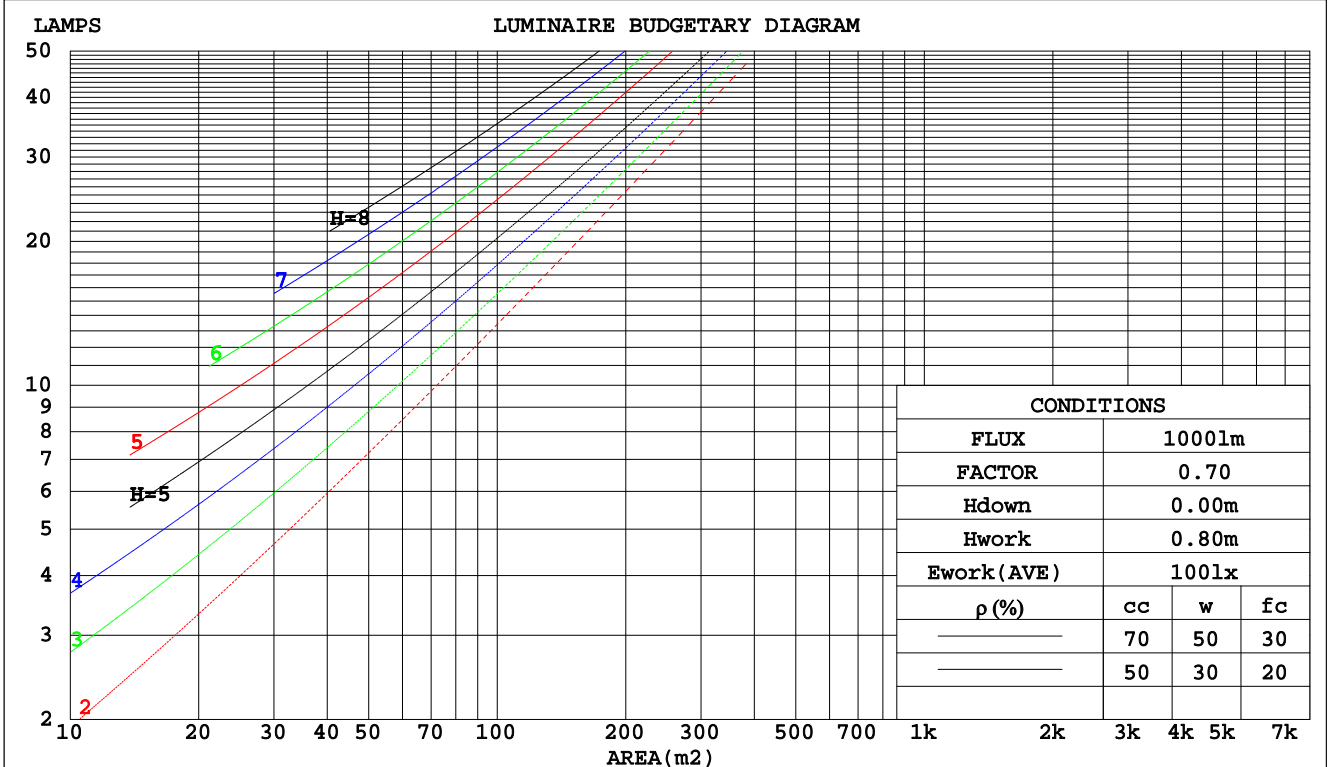
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | |
| pw | | | | | | | | | | | | | | | | 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 | .00 |
| 1.0 | 1.06 | 1.02 | .98 | 1.03 | .90 | .97 | .99 | .96 | .94 | .95 | .93 | .91 | .92 | .90 | .88 | .86 |
| 2.0 | .93 | .87 | .81 | .91 | .85 | .80 | .87 | .83 | .78 | .84 | .80 | .77 | .81 | .78 | .75 | .73 |
| 3.0 | .82 | .74 | .68 | .80 | .73 | .67 | .77 | .71 | .66 | .75 | .69 | .65 | .72 | .68 | .64 | .62 |
| 4.0 | .73 | .64 | .58 | .71 | .64 | .57 | .69 | .62 | .57 | .67 | .61 | .56 | .64 | .59 | .55 | .53 |
| 5.0 | .65 | .56 | .50 | .64 | .56 | .50 | .62 | .55 | .49 | .60 | .53 | .48 | .58 | .52 | .48 | .46 |
| 6.0 | .58 | .50 | .44 | .58 | .49 | .43 | .56 | .48 | .43 | .54 | .48 | .43 | .52 | .47 | .42 | .40 |
| 7.0 | .53 | .44 | .38 | .52 | .44 | .38 | .51 | .43 | .38 | .49 | .43 | .38 | .48 | .42 | .37 | .35 |
| 8.0 | .48 | .40 | .34 | .48 | .40 | .34 | .46 | .39 | .34 | .45 | .38 | .34 | .44 | .38 | .33 | .32 |
| 9.0 | .44 | .36 | .31 | .44 | .36 | .31 | .43 | .35 | .31 | .41 | .35 | .30 | .40 | .35 | .30 | .28 |
| 10.0 | .41 | .33 | .28 | .40 | .33 | .28 | .39 | .32 | .28 | .38 | .32 | .28 | .38 | .32 | .27 | .26 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: William
 Test Date: 2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.3952]
 Remarks:

WEC AND CCEC

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .274 | .156 | .049 | .267 | .152 | .048 | .254 | .146 | .047 | .242 | .140 | .045 | .231 | .134 | .043 | |
| 2.0 | .268 | .147 | .045 | .262 | .144 | .044 | .250 | .139 | .043 | .240 | .134 | .042 | .230 | .130 | .041 | |
| 3.0 | .253 | .135 | .040 | .248 | .133 | .040 | .238 | .129 | .039 | .228 | .125 | .038 | .219 | .121 | .038 | |
| 4.0 | .237 | .123 | .036 | .232 | .122 | .036 | .223 | .118 | .035 | .215 | .115 | .035 | .207 | .112 | .034 | |
| 5.0 | .222 | .113 | .033 | .217 | .112 | .032 | .209 | .109 | .032 | .202 | .106 | .032 | .195 | .104 | .031 | |
| 6.0 | .207 | .104 | .030 | .203 | .103 | .030 | .196 | .100 | .029 | .189 | .098 | .029 | .183 | .096 | .029 | |
| 7.0 | .194 | .096 | .027 | .190 | .095 | .027 | .184 | .093 | .027 | .178 | .091 | .027 | .172 | .089 | .026 | |
| 8.0 | .182 | .089 | .025 | .179 | .088 | .025 | .173 | .086 | .025 | .167 | .085 | .024 | .162 | .083 | .024 | |
| 9.0 | .171 | .083 | .023 | .168 | .082 | .023 | .163 | .080 | .023 | .158 | .079 | .023 | .153 | .078 | .022 | |
| 10.0 | .161 | .077 | .021 | .158 | .077 | .021 | .154 | .075 | .021 | .149 | .074 | .021 | .145 | .073 | .021 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .192 | .192 | .192 | .164 | .164 | .164 | .112 | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 | |
| 1.0 | .179 | .158 | .139 | .154 | .136 | .119 | .105 | .093 | .083 | .060 | .054 | .048 | .019 | .017 | .016 | |
| 2.0 | .171 | .134 | .102 | .146 | .115 | .089 | .100 | .080 | .062 | .058 | .046 | .036 | .019 | .015 | .012 | |
| 3.0 | .163 | .116 | .078 | .140 | .100 | .068 | .096 | .069 | .048 | .055 | .041 | .028 | .018 | .013 | .009 | |
| 4.0 | .155 | .102 | .062 | .133 | .088 | .054 | .092 | .062 | .038 | .053 | .036 | .022 | .017 | .012 | .007 | |
| 5.0 | .148 | .092 | .050 | .127 | .079 | .044 | .088 | .055 | .031 | .051 | .033 | .018 | .016 | .011 | .006 | |
| 6.0 | .142 | .083 | .042 | .122 | .072 | .036 | .084 | .051 | .026 | .049 | .030 | .015 | .016 | .010 | .005 | |
| 7.0 | .135 | .077 | .036 | .116 | .066 | .031 | .080 | .047 | .022 | .047 | .027 | .013 | .015 | .009 | .004 | |
| 8.0 | .129 | .071 | .031 | .111 | .061 | .027 | .077 | .043 | .019 | .045 | .025 | .011 | .014 | .008 | .004 | |
| 9.0 | .123 | .066 | .027 | .106 | .057 | .024 | .073 | .040 | .017 | .043 | .024 | .010 | .014 | .008 | .003 | |
| 10.0 | .117 | .062 | .024 | .101 | .053 | .021 | .070 | .038 | .015 | .041 | .022 | .009 | .013 | .007 | .003 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|----------|----------------|------|---------------------|------|------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | | | | | | | | | |
| NAME: LED Floodlight | | | | | TYPE:LED | | | WEIGHT:N/A | | |
| SPEC.:N/A | | | | | DIM.: | | | SERIAL No.:N/A | | |
| MFR.: Futlight Optoelectronics Co.,Ltd | | | | | SUR.: | | | Shielding Angle:N/A | | |
| 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 | 34.1 | 35.5 | 34.3 | 35.7 | 35.9 | 33.4 | 34.8 | 33.6 | 35.0 | 35.2 |
| 3H | 35.1 | 36.5 | 35.4 | 36.7 | 37.0 | 34.0 | 35.4 | 34.3 | 35.6 | 35.8 |
| 4H | 35.3 | 36.6 | 35.7 | 36.9 | 37.1 | 34.0 | 35.3 | 34.4 | 35.6 | 35.8 |
| 6H | 35.3 | 36.5 | 35.7 | 36.8 | 37.1 | 33.9 | 35.1 | 34.3 | 35.4 | 35.7 |
| 8H | 35.3 | 36.5 | 35.6 | 36.7 | 37.0 | 33.9 | 35.0 | 34.2 | 35.3 | 35.6 |
| 12H | 35.2 | 36.4 | 35.6 | 36.7 | 37.0 | 33.8 | 34.9 | 34.2 | 35.2 | 35.5 |
| 4H 2H | 34.5 | 35.8 | 34.8 | 36.0 | 36.3 | 33.9 | 35.2 | 34.3 | 35.5 | 35.7 |
| 3H | 35.7 | 36.8 | 36.0 | 37.1 | 37.4 | 34.7 | 35.8 | 35.0 | 36.1 | 36.4 |
| 4H | 36.0 | 37.0 | 36.3 | 37.3 | 37.6 | 34.7 | 35.7 | 35.1 | 36.1 | 36.4 |
| 6H | 36.0 | 36.9 | 36.4 | 37.2 | 37.6 | 34.7 | 35.5 | 35.1 | 35.9 | 36.3 |
| 8H | 36.0 | 36.8 | 36.4 | 37.1 | 37.5 | 34.6 | 35.4 | 35.0 | 35.8 | 36.2 |
| 12H | 35.9 | 36.7 | 36.3 | 37.0 | 37.5 | 34.6 | 35.3 | 35.0 | 35.7 | 36.1 |
| 8H 4H | 35.9 | 36.8 | 36.3 | 37.1 | 37.5 | 34.8 | 35.6 | 35.2 | 36.0 | 36.4 |
| 6H | 36.0 | 36.7 | 36.4 | 37.1 | 37.5 | 34.7 | 35.4 | 35.1 | 35.8 | 36.2 |
| 8H | 36.0 | 36.5 | 36.4 | 37.0 | 37.4 | 34.7 | 35.3 | 35.1 | 35.7 | 36.1 |
| 12H | 35.9 | 36.4 | 36.4 | 36.9 | 37.4 | 34.6 | 35.1 | 35.1 | 35.6 | 36.1 |
| 12H 4H | 35.9 | 36.6 | 36.3 | 37.0 | 37.4 | 34.7 | 35.5 | 35.2 | 35.9 | 36.3 |
| 6H | 35.9 | 36.5 | 36.4 | 37.0 | 37.4 | 34.7 | 35.3 | 35.1 | 35.7 | 36.1 |
| 8H | 35.9 | 36.4 | 36.4 | 36.9 | 37.4 | 34.6 | 35.1 | 35.1 | 35.6 | 36.1 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.5 | | | | |
| 1.5H | + 0.3 / - 0.6 | | | | | + 0.4 / - 0.7 | | | | |
| 2.0H | + 0.4 / - 0.5 | | | | | + 0.5 / - 0.7 | | | | |

CIE Pub.117, 12069 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 8.7)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |

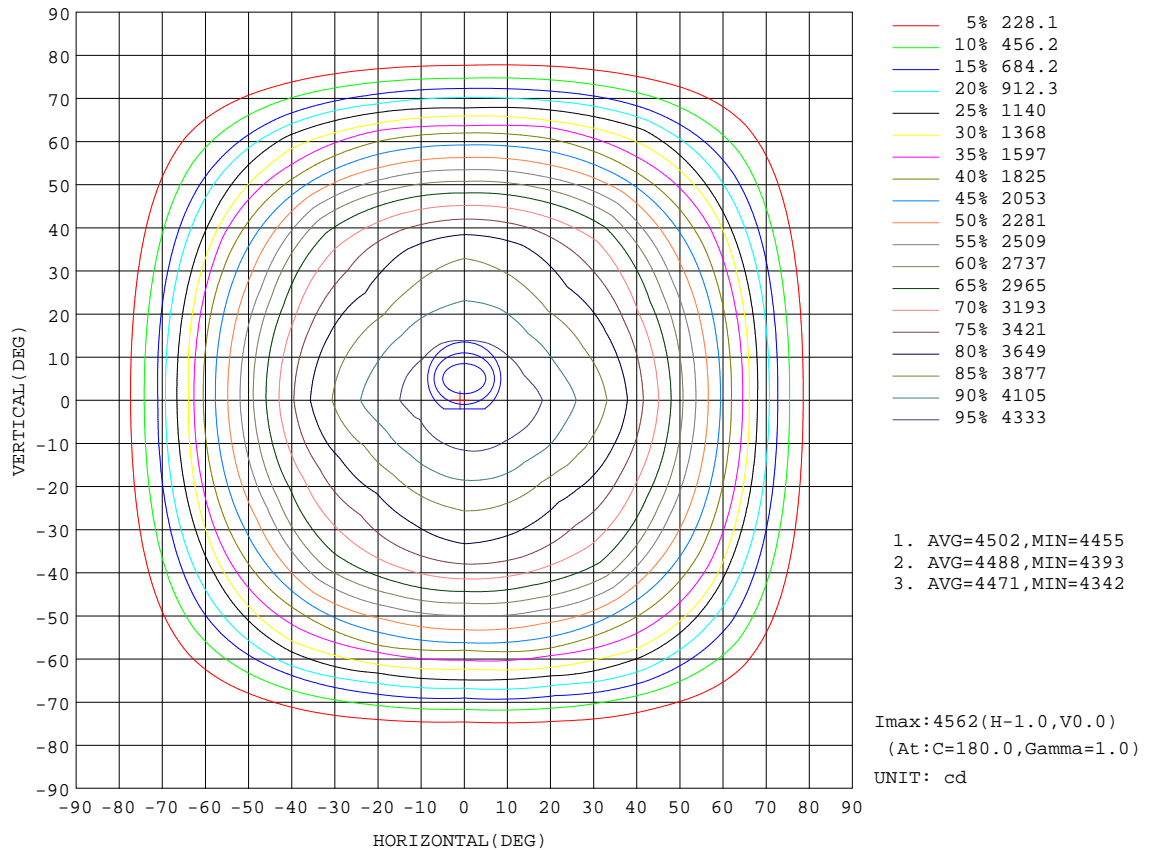
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| k = 0.60 | 59 | 47 | 41 | 58 | 47 | 40 | 57 | 47 | 40 | 34 |
| 0.80 | 69 | 58 | 51 | 68 | 58 | 51 | 67 | 57 | 50 | 44 |
| 1.00 | 78 | 68 | 61 | 77 | 67 | 60 | 75 | 68 | 60 | 53 |
| 1.25 | 85 | 75 | 69 | 84 | 75 | 68 | 81 | 73 | 68 | 61 |
| 1.50 | 90 | 81 | 75 | 89 | 80 | 74 | 86 | 78 | 73 | 66 |
| 2.00 | 97 | 89 | 83 | 95 | 88 | 83 | 92 | 86 | 81 | 74 |
| 2.50 | 101 | 94 | 88 | 99 | 92 | 87 | 95 | 90 | 85 | 77 |
| 3.00 | 104 | 98 | 93 | 102 | 96 | 92 | 98 | 93 | 90 | 81 |
| 4.00 | 108 | 103 | 98 | 105 | 101 | 97 | 101 | 98 | 94 | 86 |
| 5.00 | 110 | 106 | 102 | 108 | 104 | 100 | 103 | 100 | 97 | 88 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |

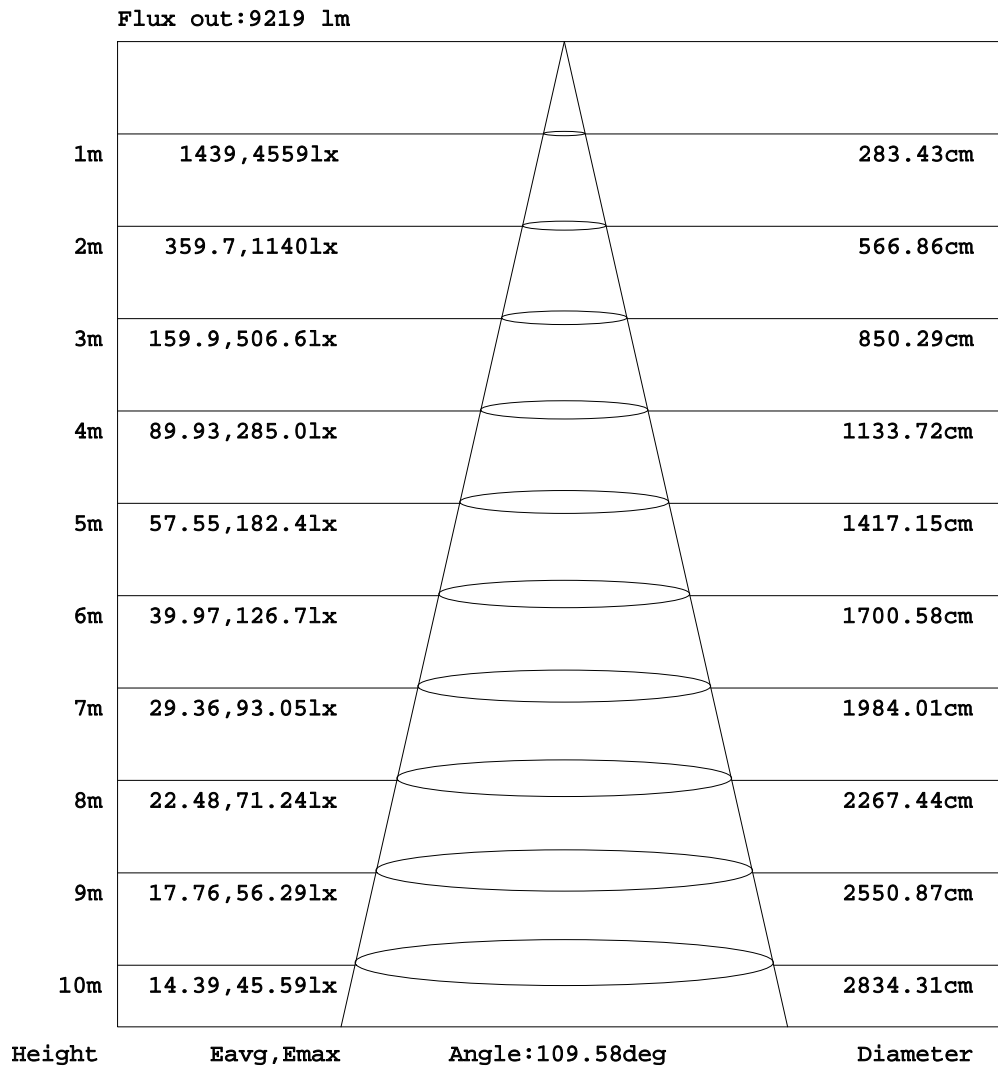


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: William
 Test Date: 2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.3952]
 Remarks:

AAI Figure

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |



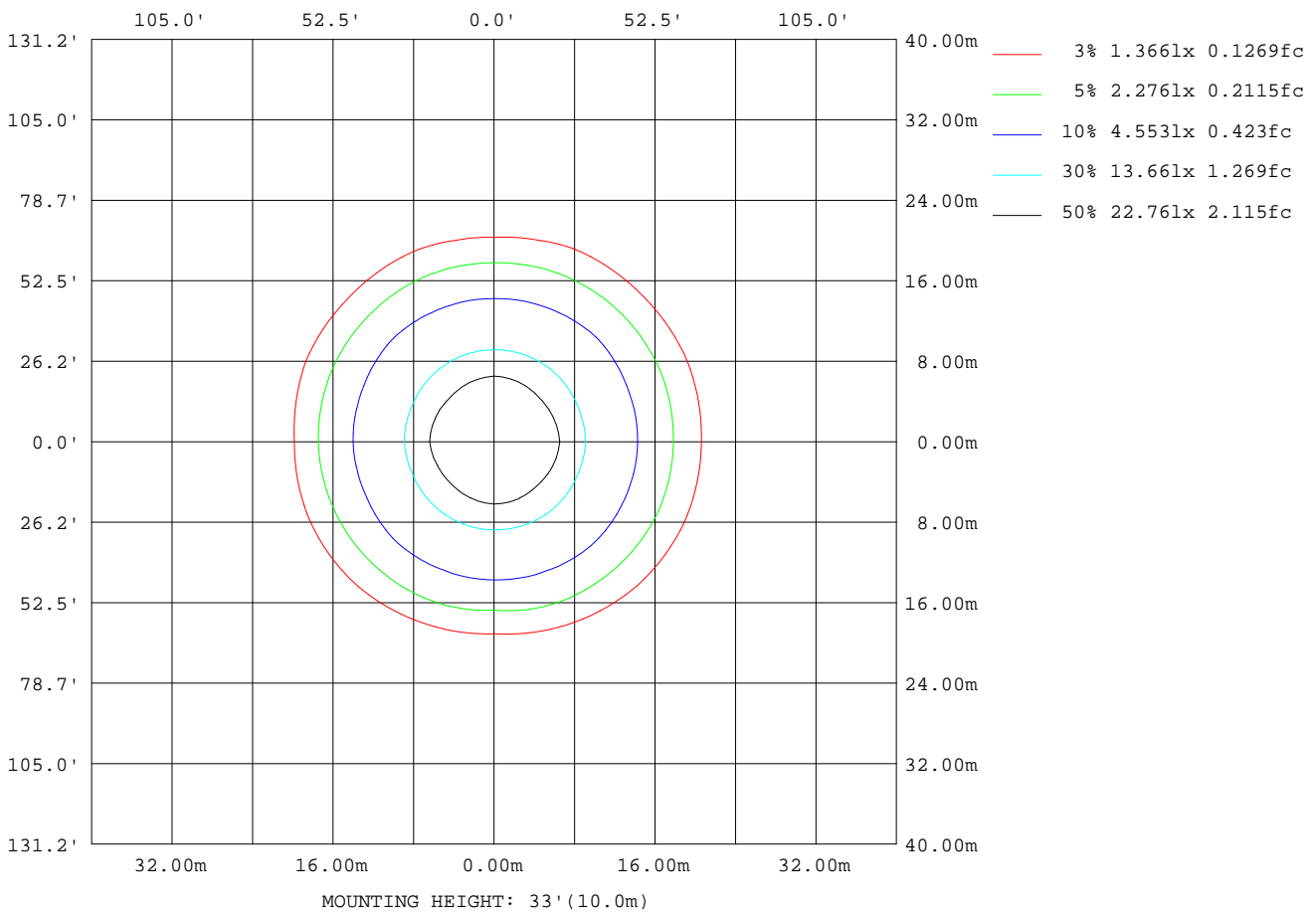
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

ISOLUX DIAGRAM

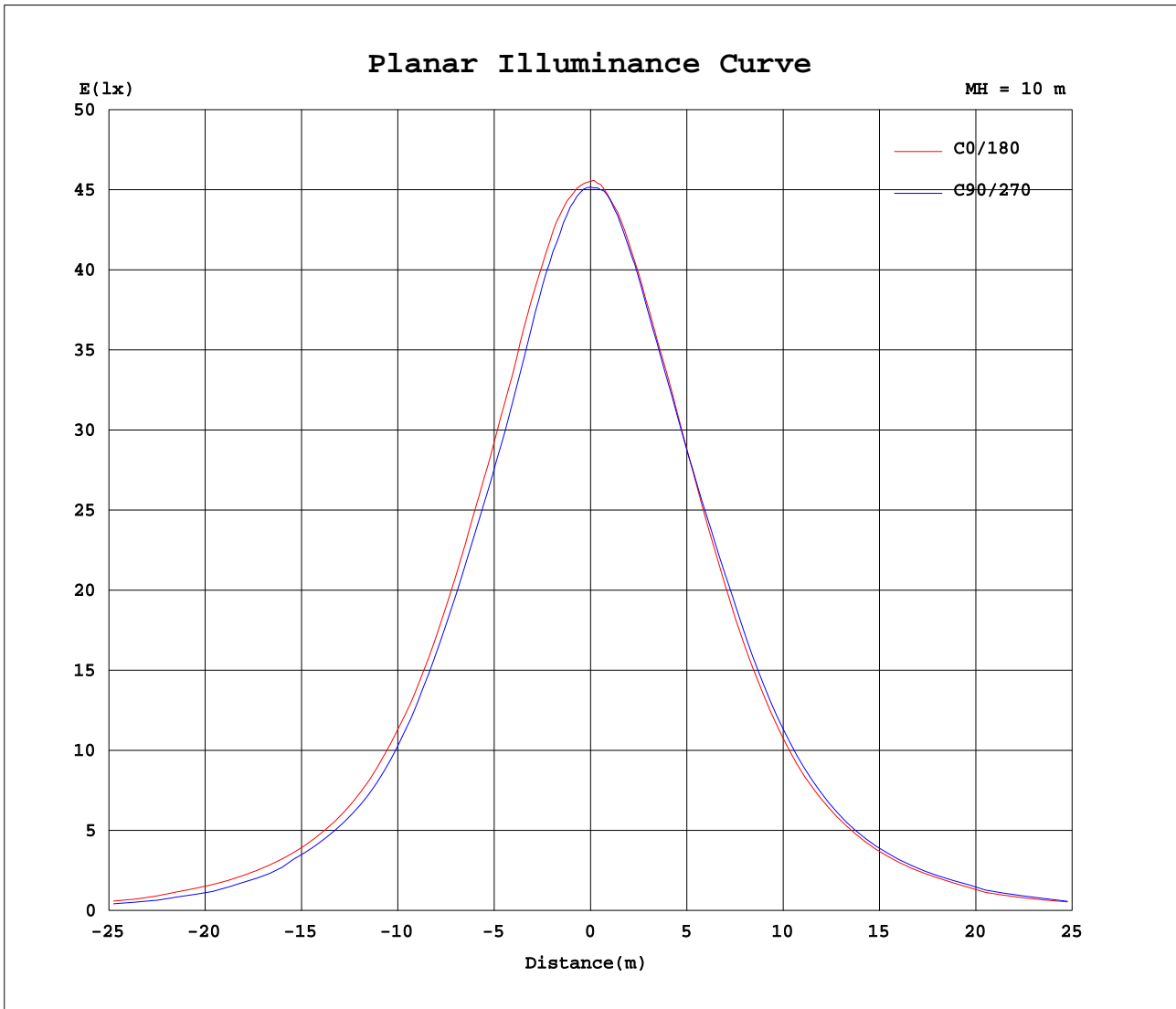
| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
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C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3952]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: William
Test Date: 2019-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 65.7%
Test Distance: 26.000m [K=1.3952]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------|---------------------|
| Test:U:220.01V I:0.4797A P:104.70W PF:0.9921 Freq:50.01Hz Lamp Flux:12068.9x1 lm | | |
| NAME: LED Floodlight | TYPE:LED | WEIGHT:N/A |
| SPEC.:N/A | DIM.: | SERIAL No.:N/A |
| MFR.: Futlight Optoelectronics Co.,Ltd | SUR.: | Shielding Angle:N/A |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | | | |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | 4524 | | | |
| 5 | 4505 | 4506 | 4488 | 4483 | 4482 | 4487 | 4477 | 4492 | 4496 | 4488 | 4505 | 4504 | 4525 | 4529 | 4516 | 4527 | | | |
| 10 | 4475 | 4441 | 4412 | 4393 | 4370 | 4379 | 4364 | 4390 | 4422 | 4419 | 4417 | 4441 | 4425 | 4454 | 4435 | 4482 | | | |
| 15 | 4374 | 4322 | 4277 | 4236 | 4242 | 4219 | 4217 | 4263 | 4305 | 4292 | 4281 | 4295 | 4308 | 4331 | 4332 | 4366 | | | |
| 20 | 4253 | 4174 | 4096 | 4073 | 4057 | 4040 | 4031 | 4104 | 4178 | 4139 | 4127 | 4150 | 4176 | 4200 | 4164 | 4225 | | | |
| 25 | 4110 | 4000 | 3902 | 3897 | 3897 | 3870 | 3838 | 3920 | 4050 | 3977 | 3941 | 3990 | 4062 | 4051 | 3996 | 4060 | | | |
| 30 | 3968 | 3836 | 3708 | 3753 | 3770 | 3692 | 3631 | 3748 | 3880 | 3812 | 3765 | 3854 | 3951 | 3904 | 3825 | 3906 | | | |
| 35 | 3768 | 3626 | 3518 | 3556 | 3578 | 3523 | 3441 | 3526 | 3663 | 3601 | 3585 | 3714 | 3815 | 3767 | 3657 | 3723 | | | |
| 40 | 3494 | 3373 | 3347 | 3310 | 3297 | 3285 | 3243 | 3266 | 3369 | 3344 | 3404 | 3513 | 3555 | 3569 | 3486 | 3492 | | | |
| 45 | 3180 | 3084 | 3117 | 2970 | 2912 | 2933 | 2991 | 2955 | 3023 | 3045 | 3182 | 3197 | 3209 | 3251 | 3288 | 3179 | | | |
| 50 | 2779 | 2723 | 2780 | 2575 | 2504 | 2534 | 2650 | 2588 | 2640 | 2683 | 2876 | 2818 | 2807 | 2870 | 2968 | 2819 | | | |
| 55 | 2391 | 2347 | 2337 | 2208 | 2148 | 2152 | 2222 | 2204 | 2252 | 2294 | 2444 | 2383 | 2381 | 2443 | 2548 | 2440 | | | |
| 60 | 1991 | 1955 | 1862 | 1766 | 1621 | 1659 | 1750 | 1813 | 1855 | 1909 | 1945 | 1990 | 1989 | 2045 | 2064 | 2063 | | | |
| 65 | 1543 | 1539 | 1442 | 1188 | 1130 | 1144 | 1330 | 1264 | 1266 | 1433 | 1482 | 1495 | 1444 | 1603 | 1596 | 1636 | | | |
| 70 | 960 | 940 | 886 | 683 | 620 | 632 | 718 | 827 | 828 | 911 | 1008 | 917 | 938 | 975 | 1138 | 1032 | | | |
| 75 | 502 | 482 | 360 | 264 | 200 | 234 | 303 | 375 | 365 | 446 | 452 | 441 | 419 | 487 | 528 | 544 | | | |
| 80 | 131 | 125 | 60.3 | 12.0 | 10.5 | 11.0 | 38.0 | 67.1 | 86.4 | 98.6 | 96.6 | 85.2 | 88.5 | 122 | 153 | 170 | | | |
| 85 | 9.32 | 8.29 | 6.73 | 5.69 | 5.13 | 5.36 | 6.37 | 7.81 | 8.31 | 10.5 | 14.0 | 18.1 | 20.2 | 19.2 | 15.1 | 11.4 | | | |
| 90 | 0.97 | 0.85 | 0.81 | 0.67 | 0.45 | 0.52 | 0.74 | 0.82 | 0.73 | 0.66 | 2.12 | 4.86 | 6.43 | 4.75 | 4.13 | 2.05 | | | |
| 95 | 0.51 | 0.44 | 0.59 | 0.44 | 0.30 | 0.45 | 0.59 | 0.59 | 0.80 | 0.59 | 0.73 | 0.44 | 0.52 | 0.52 | 0.81 | 0.82 | | | |
| 100 | 0.44 | 0.44 | 0.59 | 0.44 | 0.30 | 0.45 | 0.59 | 0.59 | 1.25 | 1.18 | 1.18 | 0.81 | 0.74 | 0.75 | 1.11 | 1.04 | | | |
| 105 | 0.44 | 0.44 | 0.66 | 0.52 | 0.44 | 0.45 | 0.67 | 0.67 | 1.98 | 1.98 | 1.70 | 1.48 | 1.41 | 1.56 | 1.85 | 1.79 | | | |
| 110 | 1.17 | 1.32 | 1.25 | 1.18 | 1.26 | 1.19 | 1.33 | 1.26 | 2.78 | 2.56 | 2.58 | 2.29 | 2.30 | 2.38 | 2.67 | 2.67 | | | |
| 115 | 1.39 | 1.61 | 1.69 | 1.70 | 1.85 | 1.63 | 1.70 | 1.71 | 3.73 | 3.30 | 3.39 | 3.18 | 3.04 | 3.12 | 3.55 | 3.49 | | | |
| 120 | 2.12 | 2.34 | 2.35 | 2.22 | 2.37 | 2.37 | 2.37 | 2.38 | 4.39 | 4.11 | 3.97 | 3.84 | 4.08 | 4.02 | 4.52 | 4.45 | | | |
| 125 | 3.13 | 3.21 | 3.31 | 3.69 | 3.85 | 3.63 | 3.48 | 3.34 | 4.46 | 4.40 | 3.97 | 3.77 | 4.59 | 4.09 | 4.66 | 4.83 | | | |
| 130 | 4.17 | 4.18 | 4.19 | 4.66 | 4.74 | 4.60 | 3.92 | 4.16 | 4.97 | 4.40 | 4.27 | 4.37 | 4.60 | 4.53 | 5.03 | 5.12 | | | |
| 135 | 5.04 | 5.05 | 4.85 | 5.84 | 6.08 | 5.71 | 4.81 | 5.26 | 5.27 | 4.47 | 4.27 | 4.88 | 5.41 | 5.13 | 5.18 | 5.35 | | | |
| 140 | 6.43 | 6.58 | 6.25 | 7.31 | 7.48 | 7.35 | 6.06 | 7.03 | 5.71 | 5.05 | 4.64 | 5.32 | 5.71 | 6.02 | 5.63 | 6.01 | | | |
| 145 | 7.53 | 7.62 | 7.35 | 8.43 | 8.60 | 8.25 | 7.47 | 7.42 | 6.29 | 5.65 | 5.37 | 6.22 | 6.38 | 6.92 | 6.51 | 6.68 | | | |
| 150 | 8.48 | 8.71 | 8.76 | 9.39 | 9.41 | 9.21 | 8.88 | 8.54 | 7.10 | 6.89 | 6.62 | 7.25 | 7.57 | 7.95 | 7.77 | 7.72 | | | |
| 155 | 9.14 | 9.38 | 9.49 | 9.76 | 9.64 | 9.66 | 9.47 | 8.98 | 8.19 | 7.76 | 7.65 | 8.21 | 8.61 | 8.85 | 8.07 | 8.76 | | | |
| 160 | 9.29 | 9.67 | 9.79 | 9.98 | 10.4 | 10.03 | 9.55 | 9.50 | 9.14 | 8.72 | 8.69 | 8.80 | 9.41 | 9.51 | 9.03 | 9.43 | | | |
| 165 | 10.1 | 10.3 | 10.4 | 10.9 | 11.0 | 10.6 | 10.6 | 10.5 | 9.36 | 9.23 | 9.20 | 9.32 | 9.64 | 9.88 | 9.99 | 9.80 | | | |
| 170 | 10.6 | 10.6 | 11.0 | 11.8 | 11.9 | 11.2 | 11.0 | 10.9 | 9.95 | 9.82 | 9.93 | 10.2 | 10.5 | 10.8 | 10.9 | 10.6 | | | |
| 175 | 11.6 | 11.4 | 11.6 | 11.9 | 11.9 | 12.0 | 11.8 | 11.8 | 11.3 | 11.4 | 10.9 | 11.3 | 11.3 | 11.8 | 11.7 | 11.4 | | | |
| 180 | 11.8 | 11.6 | 11.8 | 11.8 | 11.9 | 11.9 | 11.8 | 11.9 | 11.7 | 11.8 | 11.7 | 11.9 | 11.9 | 12.0 | 11.8 | 11.8 | | | |

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