

Photometric report for Flanged and Flangeless Trim



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 73.7% | |
| Luminaire Power: | 13.74 W | |
| SHR Nominal: | 0.50 | Calculated using the TM5 |
| SHR Maximum: | 0.65 | fine grid method. |

C Range: 0 - 360DEG
C Interval: FOR A 36° LENS BEAM ANGLE
Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2025-7-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 124.409" [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
LENS: PM-1084B 36R
DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

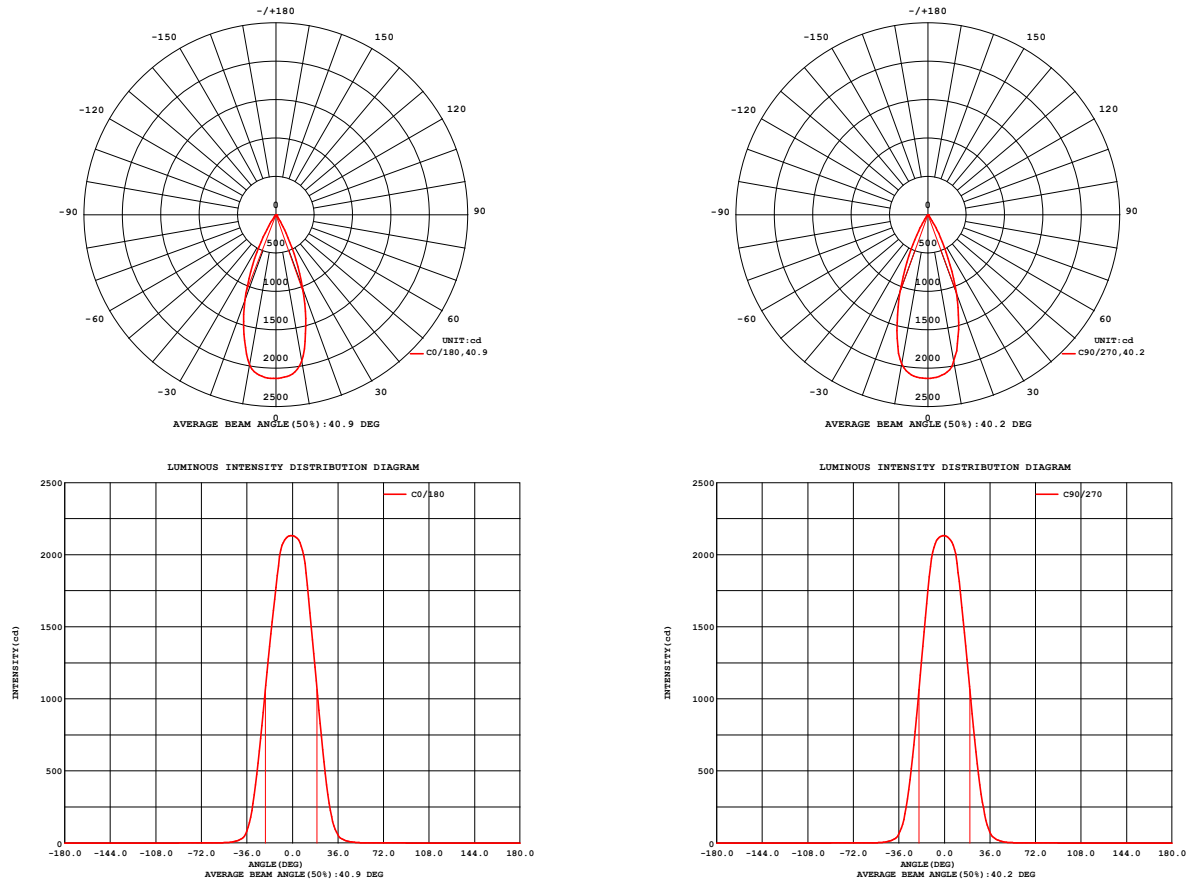


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: FOR A 36° LENS BEAM ANGLE
Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2025-7-03

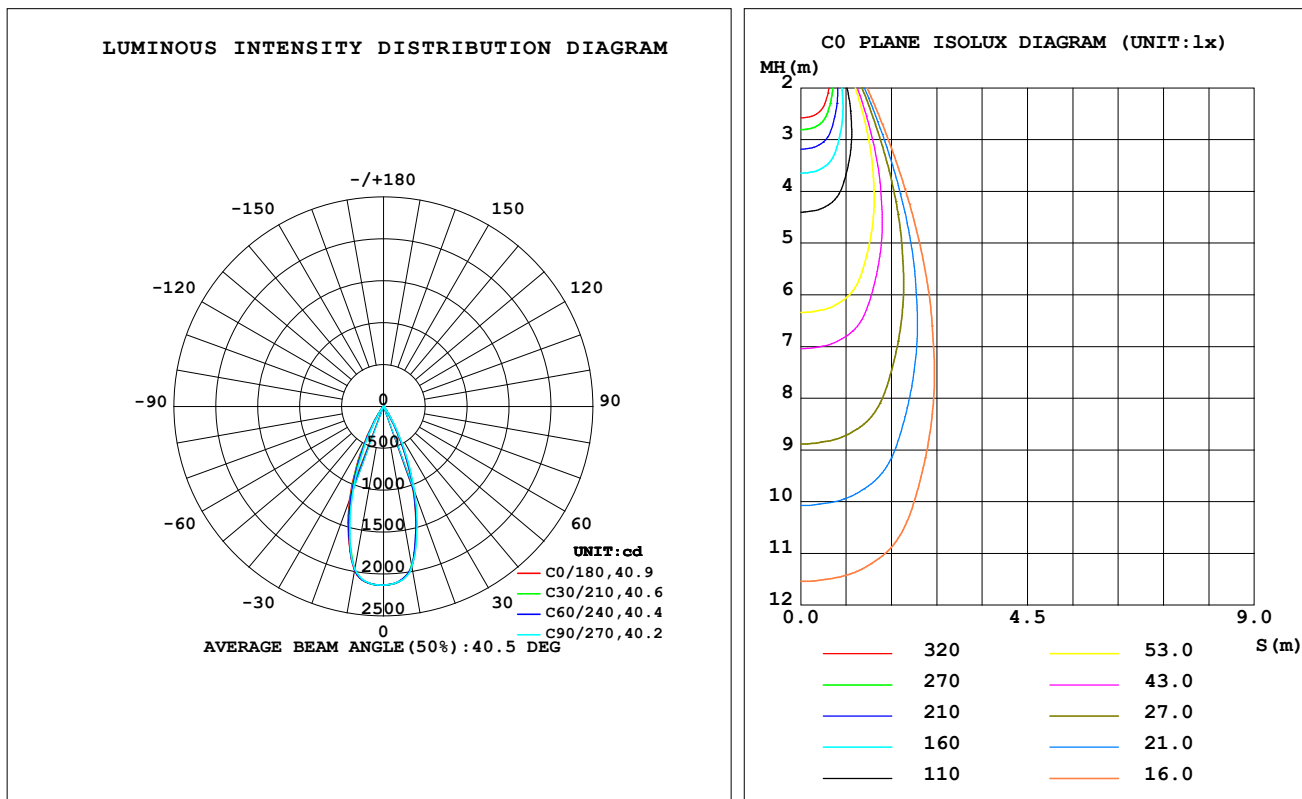
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|------------------|------------------------|
| Test:U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux:1342.44x1 lm | | |
| NAME: CTL-M-1.5S-30K-36-RD-AD | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 71.98 lm/W |
|-------------------|-----------|-----------------------|--------|---------------------|-----------|-----------------|
| MODEL | Brideglux | I _{max} (cd) | 2132 | S/MH (C0/180) | 0.66 | |
| NOMINAL POWER (W) | 13 | LOR (%) | 73.7 | S/MH (C90/270) | 0.63 | |
| RATED VOLTAGE (V) | 120 | TOTAL FLUX (lm) | 989.16 | ☒ UP, DN (C0-180) | 0.0, 36.7 | |
| NOMINAL FLUX (lm) | 1342.44 | CIE CLASS | DIRECT | ☒ UP, DN (C180-360) | 0.0, 36.9 | |
| LAMPS INSIDE | 1 | ☒ up (%) | 0.0 | CIBSE SHR NOM | 0.50 | |
| TEST VOLTAGE (V) | 120 | ☒ down (%) | 73.7 | CIBSE SHR MAX | 0.65 | |



C Range: 0 - 360DEG
 C Interval: FOR A 36° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2025-7-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 124.409" [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra:90
 LENS: PM-1084B 36R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

ZONAL FLUX DIAGRAM
ZONAL FLUX DIAGRAM:

| ° | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | ° | zone | total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------|-----------|
| 10 | 1940 | 1933 | 1939 | 1973 | 1989 | 1978 | 1974 | 1944 | 0- 10 | 196.7 | 196.7 | 19.9,14.7 |
| 20 | 1022 | 1046 | 1086 | 1156 | 1184 | 1134 | 1062 | 1032 | 10- 20 | 425.1 | 621.9 | 62.9,46.3 |
| 30 | 226.2 | 254.9 | 283.7 | 311.7 | 333.5 | 296.7 | 249.6 | 230.6 | 20- 30 | 287.3 | 909.2 | 91.9,67.7 |
| 40 | 24.64 | 28.50 | 31.69 | 31.82 | 30.47 | 28.85 | 25.43 | 24.48 | 30- 40 | 66.43 | 975.6 | 98.6,72.7 |
| 50 | 3.897 | 4.212 | 4.171 | 4.236 | 4.232 | 3.954 | 3.521 | 3.491 | 40- 50 | 9.469 | 985.1 | 99.6,73.4 |
| 60 | 1.619 | 1.773 | 1.826 | 1.783 | 1.727 | 1.572 | 1.496 | 1.507 | 50- 60 | 2.018 | 987.1 | 99.8,73.5 |
| 70 | 0.8162 | 0.8032 | 1.001 | 0.8917 | 0.8040 | 0.7997 | 0.8059 | 0.8045 | 60- 70 | 1.348 | 988.4 | 99.9,73.6 |
| 80 | 0.3399 | 0.3180 | 0.3263 | 0.3185 | 0.3259 | 0.3126 | 0.3207 | 0.3187 | 70- 80 | 0.5779 | 989.0 | 100,73.7 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 0.1621 | 989.2 | 100,73.7 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 989.2 | 100,73.7 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 989.2 | 100,73.7 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 989.2 | 100,73.7 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 989.2 | 100,73.7 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 989.2 | 100,73.7 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 989.2 | 100,73.7 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 989.2 | 100,73.7 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 989.2 | 100,73.7 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 989.2 | 100,73.7 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG

C Interval: FOR A 36° LENS BEAM ANGLE

Test Speed: HIGH

Temperature:77.54 ° F

Operators:zoe

Test Date:2025-7-03

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:124.409" [K=1.0000]

Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90

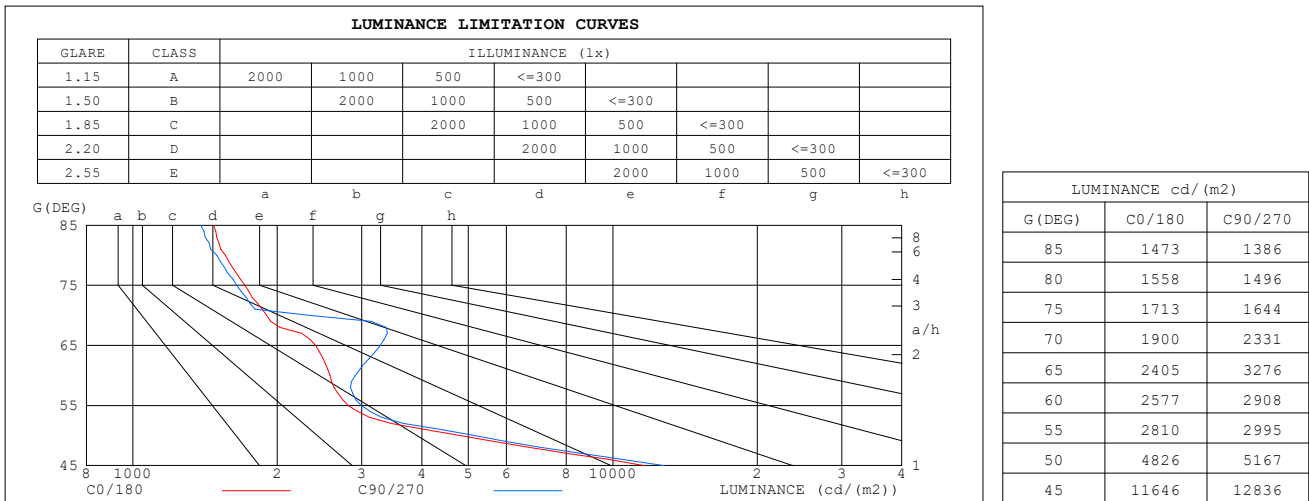
LENS:PM-1084B 36R

DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

LUMINANCE LIMITATION CURVES

| | | |
|---|-------------------------|-------------------------------|
| Test: U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux: 1342.44x1 lm | | |
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| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |



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Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2025-7-03

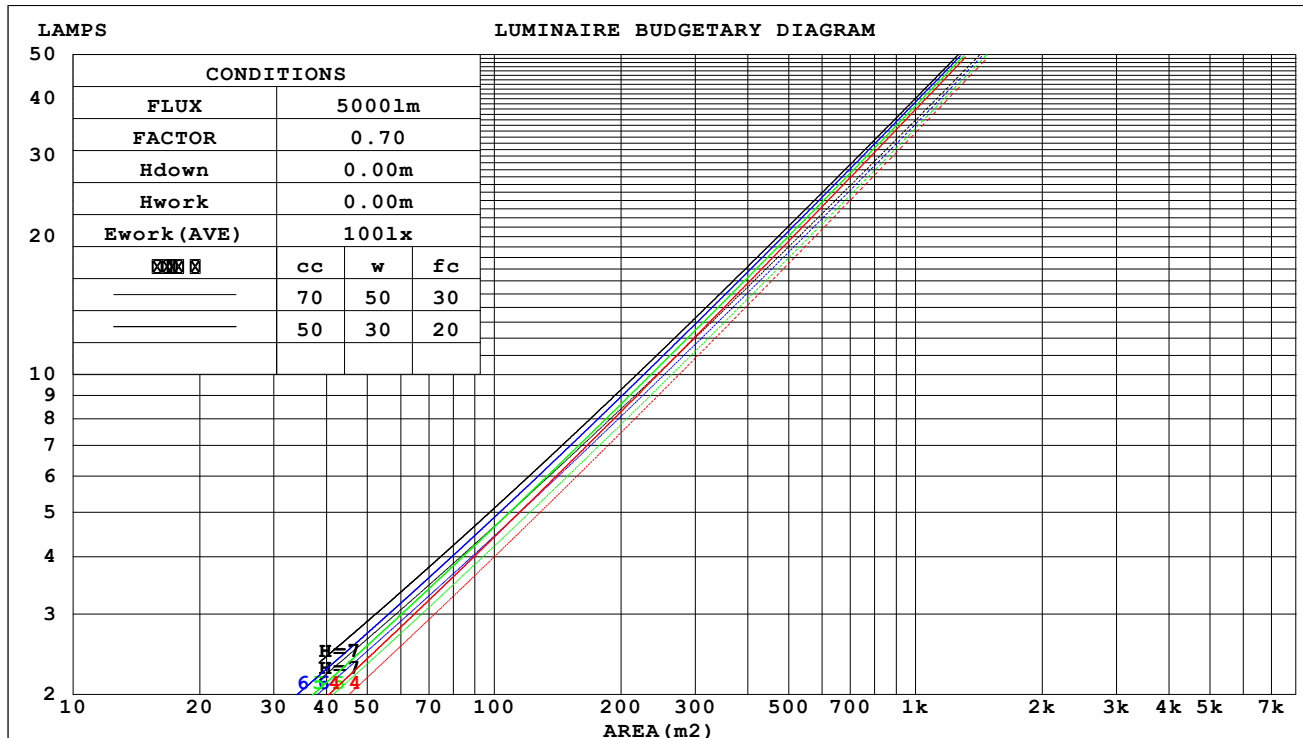
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
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| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |

| cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |



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 C Interval: FOR A 36° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 124.409" [K=1.0000]
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30minutes warm-up

WEC AND CCEC

| | | |
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| cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .112 | .064 | .020 | .107 | .061 | .019 | .098 | .056 | .018 | .090 | .052 | .017 | .082 | .048 | .015 | |
| 2.0 | .105 | .058 | .018 | .101 | .056 | .017 | .094 | .052 | .016 | .087 | .049 | .015 | .080 | .045 | .014 | |
| 3.0 | .099 | .053 | .016 | .096 | .051 | .015 | .090 | .049 | .015 | .084 | .046 | .014 | .078 | .043 | .013 | |
| 4.0 | .094 | .049 | .014 | .091 | .048 | .014 | .086 | .045 | .014 | .081 | .043 | .013 | .076 | .041 | .013 | |
| 5.0 | .089 | .045 | .013 | .087 | .045 | .013 | .082 | .043 | .013 | .078 | .041 | .012 | .074 | .039 | .012 | |
| 6.0 | .085 | .043 | .012 | .083 | .042 | .012 | .079 | .040 | .012 | .075 | .039 | .011 | .071 | .038 | .011 | |
| 7.0 | .081 | .040 | .011 | .079 | .040 | .011 | .076 | .038 | .011 | .072 | .037 | .011 | .069 | .036 | .011 | |
| 8.0 | .078 | .038 | .011 | .076 | .037 | .011 | .073 | .036 | .010 | .070 | .035 | .010 | .067 | .034 | .010 | |
| 9.0 | .075 | .036 | .010 | .073 | .036 | .010 | .070 | .035 | .010 | .068 | .034 | .010 | .065 | .033 | .010 | |
| 10.0 | .072 | .034 | .010 | .070 | .034 | .009 | .068 | .033 | .009 | .065 | .033 | .009 | .063 | .032 | .009 | |

| cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|--|
| w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | | |
| 0.0 | .140 | .140 | .140 | .120 | .120 | .120 | .082 | .082 | .082 | .047 | .047 | .047 | .015 | .015 | .015 | | |
| 1.0 | .125 | .116 | .108 | .107 | .100 | .093 | .073 | .069 | .064 | .042 | .040 | .037 | .013 | .013 | .012 | | |
| 2.0 | .112 | .098 | .085 | .096 | .084 | .074 | .066 | .058 | .052 | .038 | .034 | .030 | .012 | .011 | .010 | | |
| 3.0 | .102 | .084 | .069 | .087 | .072 | .060 | .060 | .050 | .042 | .035 | .029 | .025 | .011 | .009 | .008 | | |
| 4.0 | .093 | .072 | .056 | .080 | .063 | .049 | .055 | .044 | .034 | .032 | .026 | .020 | .010 | .008 | .007 | | |
| 5.0 | .086 | .064 | .047 | .074 | .055 | .041 | .051 | .038 | .029 | .030 | .023 | .017 | .010 | .007 | .006 | | |
| 6.0 | .080 | .056 | .039 | .069 | .049 | .034 | .048 | .034 | .024 | .028 | .020 | .014 | .009 | .007 | .005 | | |
| 7.0 | .075 | .051 | .033 | .065 | .044 | .029 | .045 | .031 | .021 | .026 | .018 | .012 | .008 | .006 | .004 | | |
| 8.0 | .071 | .046 | .029 | .061 | .040 | .025 | .042 | .028 | .018 | .024 | .016 | .011 | .008 | .005 | .003 | | |
| 9.0 | .067 | .042 | .025 | .058 | .036 | .022 | .040 | .025 | .015 | .023 | .015 | .009 | .008 | .005 | .003 | | |
| 10.0 | .063 | .038 | .022 | .055 | .033 | .019 | .038 | .023 | .014 | .022 | .014 | .008 | .007 | .005 | .003 | | |

C Range: 0 - 360DEG
 C Interval: FOR A 36° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2025-7-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 124.409" [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra:90
 LENS: PM-1084B 36R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|---------------|------------------|------|------|------------------|---------------|----------------|------------------------|------|------|------|
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| NAME: CTL-M-1.5S-30K-36-RD-AD | | | | | TYPE: | | | WEIGHT: | | | |
| SPEC.: 3000K | | | | | DIM.: | | | SERIAL No.: 2507030421 | | | |
| MFR.: MERCURY LIGHTING | | | | | SUR.: 0.001256m2 | | | 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 | 13.3 | 14.1 | 13.5 | 14.2 | 14.4 | 14.3 | 15.1 | 14.6 | 15.3 | 15.4 |
| | 3H | 13.2 | 13.9 | 13.4 | 14.1 | 14.3 | 14.2 | 14.9 | 14.5 | 15.1 | 15.3 |
| | 4H | 13.1 | 13.8 | 13.4 | 14.0 | 14.2 | 14.2 | 14.8 | 14.4 | 15.0 | 15.3 |
| | 6H | 13.0 | 13.7 | 13.3 | 13.9 | 14.1 | 14.1 | 14.7 | 14.4 | 14.9 | 15.2 |
| | 8H | 13.0 | 13.6 | 13.3 | 13.8 | 14.1 | 14.0 | 14.7 | 14.3 | 14.9 | 15.2 |
| | 12H | 12.9 | 13.5 | 13.3 | 13.8 | 14.1 | 14.0 | 14.6 | 14.3 | 14.8 | 15.1 |
| 4H | 2H | 13.1 | 13.7 | 13.3 | 14.0 | 14.2 | 14.1 | 14.8 | 14.4 | 15.0 | 15.2 |
| | 3H | 12.9 | 13.5 | 13.3 | 13.8 | 14.1 | 14.0 | 14.6 | 14.3 | 14.9 | 15.1 |
| | 4H | 12.9 | 13.4 | 13.2 | 13.7 | 14.0 | 13.9 | 14.5 | 14.3 | 14.8 | 15.1 |
| | 6H | 12.8 | 13.3 | 13.2 | 13.6 | 13.9 | 13.8 | 14.3 | 14.2 | 14.6 | 15.0 |
| | 8H | 12.8 | 13.2 | 13.1 | 13.5 | 13.9 | 13.8 | 14.2 | 14.2 | 14.6 | 14.9 |
| | 12H | 12.7 | 13.1 | 13.1 | 13.5 | 13.9 | 13.7 | 14.1 | 14.2 | 14.5 | 14.9 |
| 8H | 4H | 12.7 | 13.2 | 13.1 | 13.5 | 13.9 | 13.8 | 14.2 | 14.2 | 14.6 | 14.9 |
| | 6H | 12.7 | 13.0 | 13.1 | 13.4 | 13.8 | 13.7 | 14.1 | 14.1 | 14.4 | 14.9 |
| | 8H | 12.6 | 12.9 | 13.1 | 13.4 | 13.8 | 13.6 | 14.0 | 14.1 | 14.4 | 14.8 |
| | 12H | 12.6 | 12.8 | 13.0 | 13.3 | 13.8 | 13.6 | 13.9 | 14.1 | 14.3 | 14.8 |
| 12H | 4H | 12.7 | 13.1 | 13.1 | 13.5 | 13.8 | 13.7 | 14.1 | 14.1 | 14.5 | 14.9 |
| | 6H | 12.6 | 12.9 | 13.1 | 13.3 | 13.8 | 13.6 | 14.0 | 14.1 | 14.4 | 14.8 |
| | 8H | 12.6 | 12.8 | 13.0 | 13.3 | 13.7 | 13.6 | 13.9 | 14.1 | 14.3 | 14.8 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | | |
| S = 1.0H | + 3.1 / - 6.6 | | | | | + 4.0 / - 7.2 | | | | | |
| 1.5H | + 5.3 / - 6.3 | | | | | + 6.4 / - 7.6 | | | | | |
| 2.0H | + 4.7 / - 2.2 | | | | | + 5.1 / - 2.2 | | | | | |

CIE Pub.117, 1342 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
 Area: 0.001256 m2

| | |
|---------------------------------------|---|
| C Range: 0 - 360DEG | γ Range: 0 - 180DEG |
| C Interval: FOR A 36° LENS BEAM ANGLE | γ Interval: 1.0DEG |
| Test Speed: HIGH | Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461 |
| Temperature:77.54 °F | Humidity:65.0% |
| Operators:zoe | Test Distance:124.409" [K=1.0000] |
| Test Date:2025-7-03 | Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90 |
| | LENS:PM-1084B 36R |
| | DRIVER:PUP20A-1WMC 600mA |
| | 30minutes warm-up |

UTILIZATION FACTORS TABLE

| | | |
|---|------------------|------------------------|
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| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 67 | 63 | 60 | 66 | 63 | 60 | 66 | 62 | 60 | 58 |
| 0.80 | 72 | 68 | 66 | 72 | 68 | 66 | 71 | 67 | 65 | 63 |
| 1.00 | 75 | 71 | 69 | 74 | 71 | 68 | 73 | 71 | 68 | 65 |
| 1.25 | 77 | 74 | 72 | 77 | 74 | 71 | 75 | 73 | 71 | 68 |
| 1.50 | 79 | 76 | 74 | 78 | 76 | 74 | 77 | 74 | 73 | 70 |
| 2.00 | 81 | 78 | 76 | 80 | 77 | 75 | 78 | 76 | 74 | 71 |
| 2.50 | 82 | 79 | 77 | 81 | 78 | 77 | 79 | 77 | 75 | 71 |
| 3.00 | 83 | 81 | 79 | 82 | 80 | 78 | 79 | 78 | 76 | 72 |
| 4.00 | 84 | 83 | 81 | 83 | 81 | 80 | 80 | 79 | 78 | 73 |
| 5.00 | 85 | 84 | 83 | 84 | 82 | 81 | 81 | 80 | 79 | 74 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

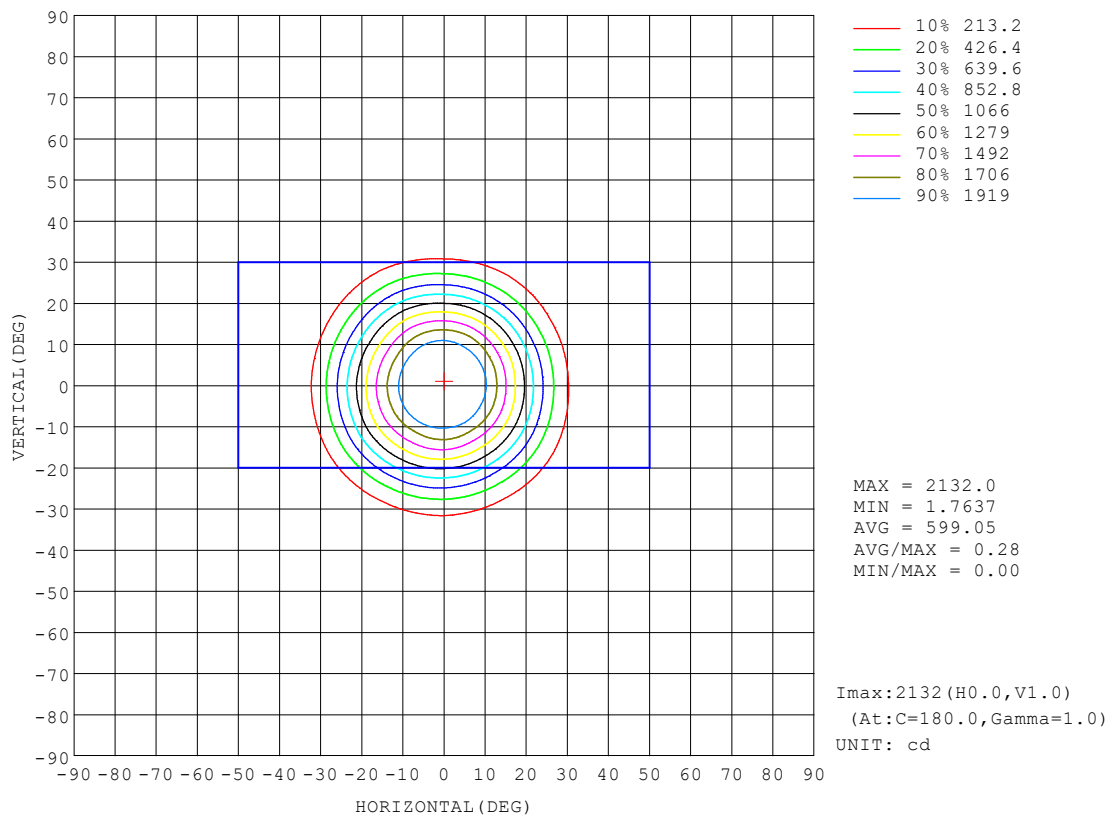
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γ Range: 0 - 180DEG
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 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

ISOCANDELA DIAGRAM

| | | |
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| Test:U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux:1342.44x1 lm | | |
| NAME: CTL-M-1.5S-30K-36-RD-AD | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: FOR A 36° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2025-7-03

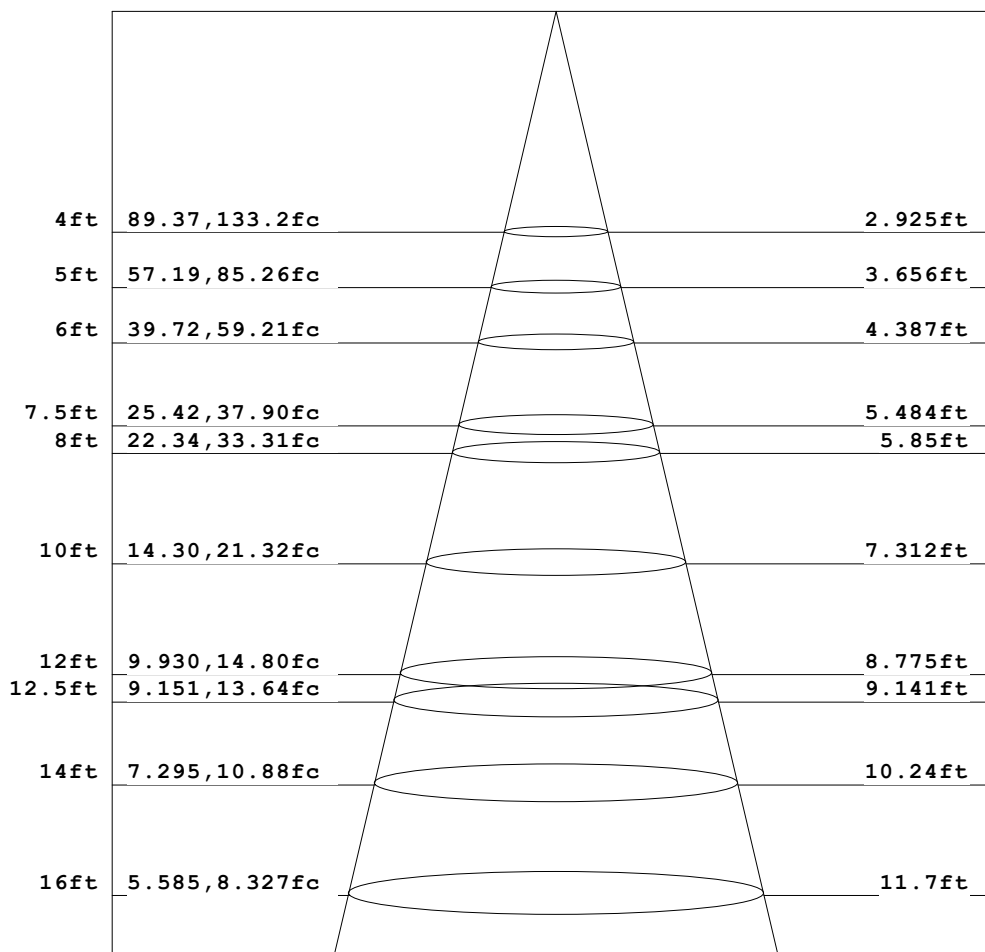
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 124.409" [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
 LENS: PM-1084B 36R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

AAI Figure

| | | |
|---|------------------|------------------------|
| Test:U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux:1342.44x1 lm | | |
| NAME: CTL-M-1.5S-30K-36-RD-AD | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |

Flux out:661.9 lm



Height Eavg, Emax Angle: 40.17deg Diameter

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

C Range: 0 - 360DEG

C Interval: FOR A 36° LENS BEAM ANGLE

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2025-7-03

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 124.409" [K=1.0000]

Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90

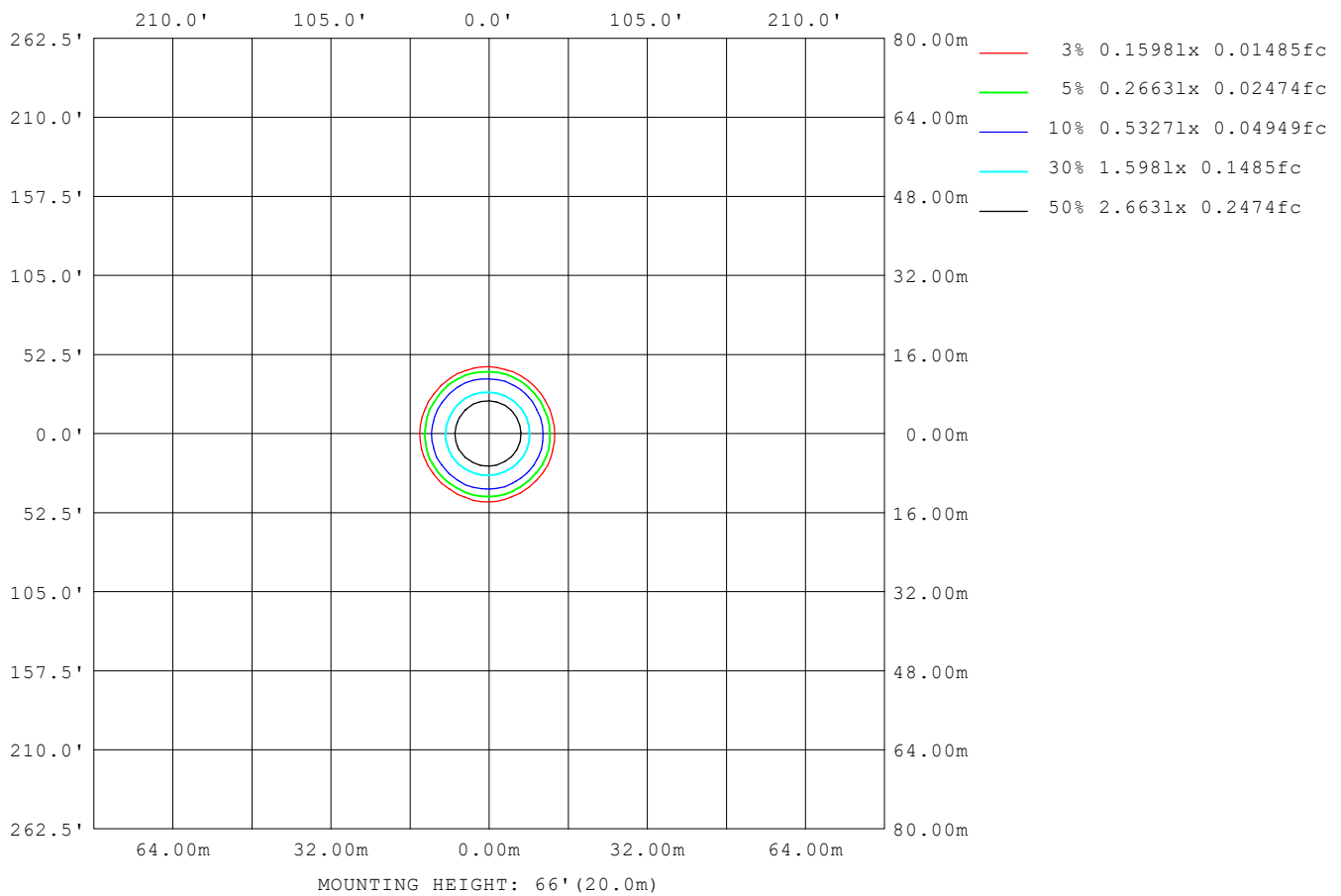
LENS: PM-1084B 36R

DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

ISOLUX DIAGRAM

| | | |
|---|-------------------------|-------------------------------|
| Test: U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux: 1342.44x1 lm | | |
| NAME: CTL-M-1.5S-30K-36-RD-AD | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |



| | |
|--|---|
| C Range: 0 - 360DEG | γ Range: 0 - 180DEG |
| C Interval: FOR A 36° LENS BEAM ANGLE | γ Interval: 1.0DEG |
| Test Speed: HIGH | Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461 |
| Temperature: 77.54 °F | Humidity: 65.0% |
| Operators: zoe | Test Distance: 124.409" [K=1.0000] |
| Test Date: 2025-7-03 | Remarks: LAMP: BXRH-30G10T0-G-83 Ra:90 |
| | LENS: PM-1084B 36R |
| | DRIVER: PUP20A-1WMC 600mA |
| | 30minutes warm-up |

LED Avg.L Report

| | | |
|---|------------------|------------------------|
| Test:U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux:1342.44x1 lm | | |
| NAME: CTL-M-1.5S-30K-36-RD-AD | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |

| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 2548 |
| L_0~180 (75) av | 1693 |
| L_0~180 (85) av | 1424 |
| L_90~270 (65) av | 2808 |
| L_90~270 (75) av | 1656 |
| L_90~270 (85) av | 1342 |
| L_45 (65) av | 2687 |
| L_45 (75) av | 1647 |
| L_45 (85) av | 1255 |

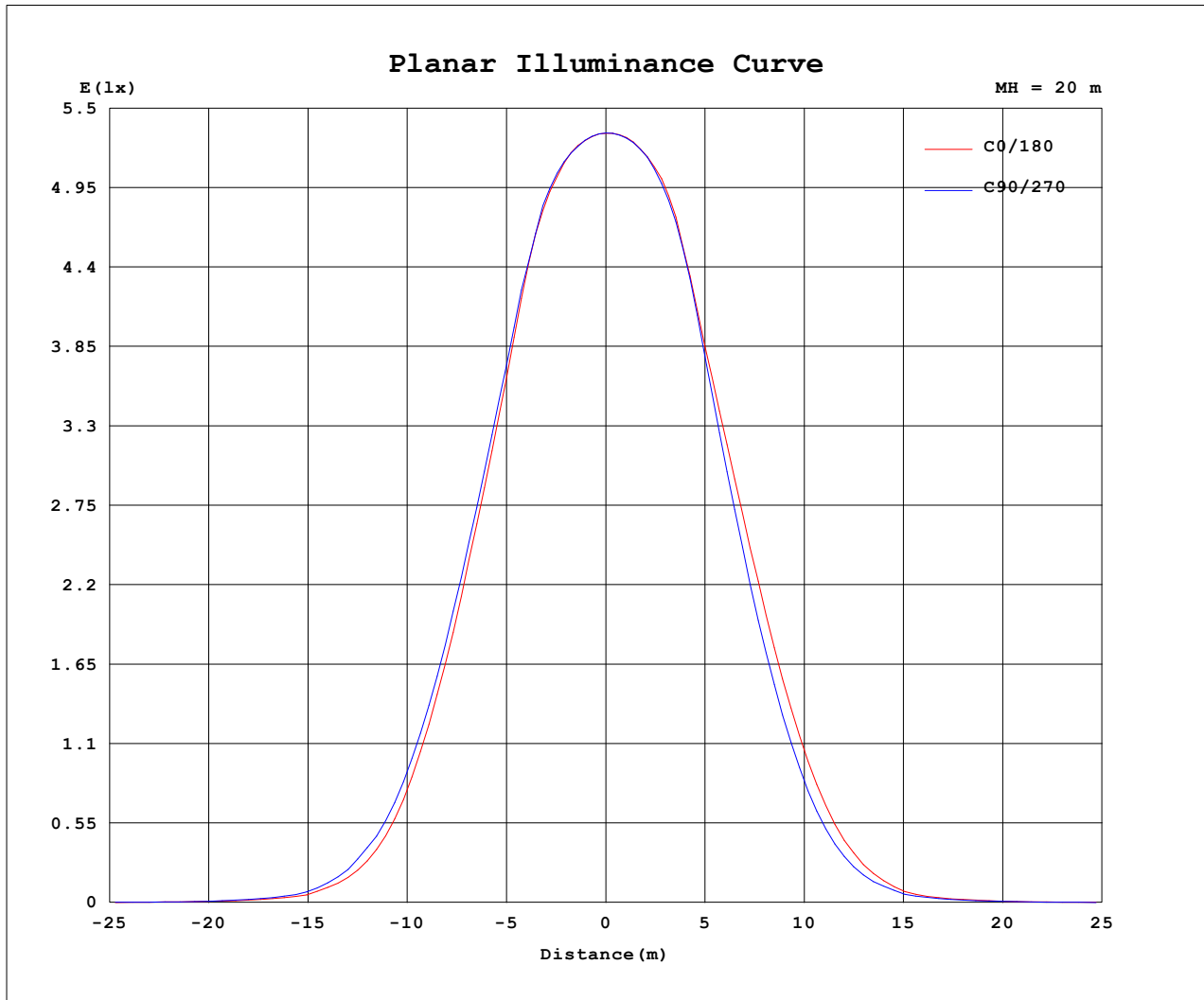
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: FOR A 36° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2025-7-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 124.409" [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
 LENS: PM-1084B 36R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: FOR A 36° LENS BEAM ANGLE
Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2025-7-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 124.409" [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
LENS: PM-1084B 36R
DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|------------------|------------------------|
| Test:U:120.10V I:0.1154A P:13.742W PF:0.9905 Freq:59.98Hz Lamp Flux:1342.44x1 lm | | |
| NAME: CTL-M-1.5S-30K-36-RD-AD | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2507030421 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001256m2 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | 2131 | | | | | | |
| 5 | 2101 | 2101 | 2098 | 2100 | 2100 | 2107 | 2112 | 2113 | 2113 | 2110 | 2108 | 2102 | | | | | | |
| 10 | 1940 | 1927 | 1939 | 1939 | 1961 | 1985 | 1989 | 1973 | 1984 | 1974 | 1947 | 1941 | | | | | | |
| 15 | 1502 | 1515 | 1505 | 1547 | 1560 | 1605 | 1613 | 1577 | 1593 | 1562 | 1543 | 1512 | | | | | | |
| 20 | 1022 | 1047 | 1046 | 1086 | 1126 | 1187 | 1184 | 1140 | 1128 | 1062 | 1043 | 1021 | | | | | | |
| 25 | 562 | 589 | 591 | 631 | 666 | 726 | 724 | 679 | 656 | 596 | 569 | 551 | | | | | | |
| 30 | 226 | 256 | 254 | 284 | 295 | 328 | 334 | 305 | 288 | 250 | 242 | 219 | | | | | | |
| 35 | 77.1 | 83.1 | 90.5 | 100 | 102 | 110 | 111 | 101 | 93.0 | 83.5 | 74.4 | 71.4 | | | | | | |
| 40 | 24.6 | 27.8 | 29.2 | 31.7 | 31.5 | 32.1 | 30.5 | 29.7 | 28.0 | 25.4 | 24.6 | 24.3 | | | | | | |
| 45 | 10.3 | 11.1 | 10.9 | 11.4 | 11.4 | 11.7 | 11.4 | 11.1 | 10.4 | 9.75 | 9.14 | 9.86 | | | | | | |
| 50 | 3.90 | 4.24 | 4.19 | 4.17 | 4.18 | 4.30 | 4.23 | 4.09 | 3.81 | 3.52 | 3.45 | 3.53 | | | | | | |
| 55 | 2.02 | 2.18 | 2.16 | 2.16 | 2.14 | 2.12 | 2.13 | 2.08 | 1.91 | 1.82 | 1.80 | 1.82 | | | | | | |
| 60 | 1.62 | 1.77 | 1.78 | 1.83 | 1.82 | 1.75 | 1.73 | 1.64 | 1.50 | 1.50 | 1.51 | 1.51 | | | | | | |
| 65 | 1.28 | 1.40 | 1.61 | 1.74 | 1.74 | 1.64 | 1.43 | 1.28 | 1.24 | 1.24 | 1.25 | 1.25 | | | | | | |
| 70 | 0.82 | 0.82 | 0.79 | 1.00 | 0.98 | 0.80 | 0.80 | 0.80 | 0.80 | 0.81 | 0.81 | 0.80 | | | | | | |
| 75 | 0.56 | 0.55 | 0.53 | 0.53 | 0.53 | 0.54 | 0.54 | 0.53 | 0.53 | 0.54 | 0.54 | 0.54 | | | | | | |
| 80 | 0.34 | 0.32 | 0.32 | 0.33 | 0.32 | 0.32 | 0.33 | 0.31 | 0.31 | 0.32 | 0.32 | 0.32 | | | | | | |
| 85 | 0.16 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.15 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | | | | | | |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

C Range: 0 - 360DEG

C Interval: FOR A 36° LENS BEAM ANGLE

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2025-7-03

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

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30minutes warm-up