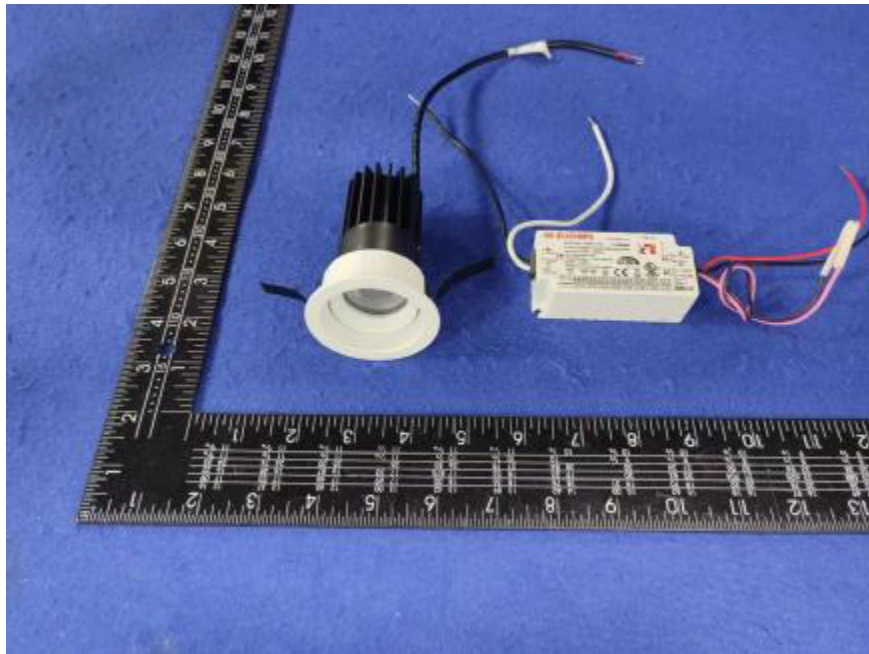


Photometric report for Flanged and Flangeless Trim



| | | |
|---------------------|--------|--------------------------|
| Light Output Ratio: | 58.1% | |
| Luminaire Power: | 11.3 W | |
| SHR Nominal: | 0.75 | Calculated using the TM5 |
| SHR Maximum: | 0.80 | fine grid method. |

C Range: 0 - 360DEG
C Interval: For a lens beam angle of 60°
Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2023-12-25

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: BXRV-DR-1830G-100Z-A-23 Ra: 90
LENS: PM-1103C 50R+DIFFUSER
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

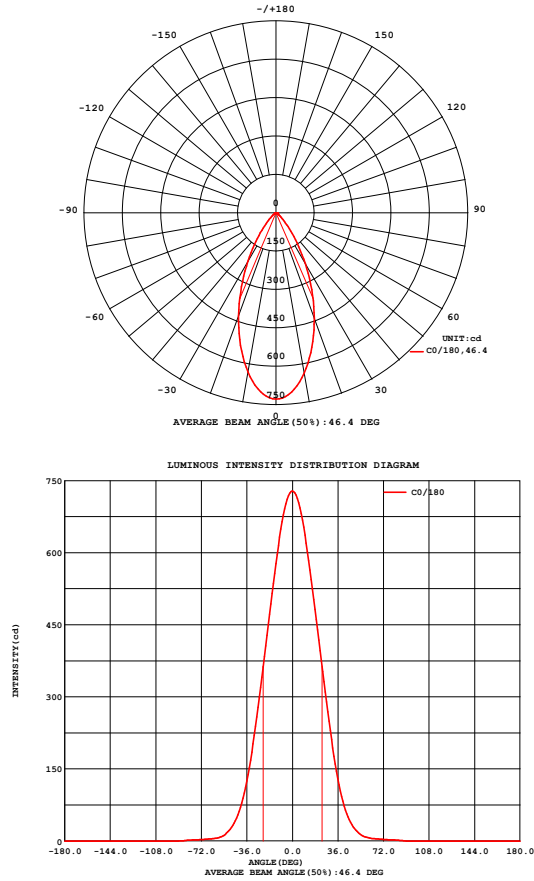


Fig. C0/C180

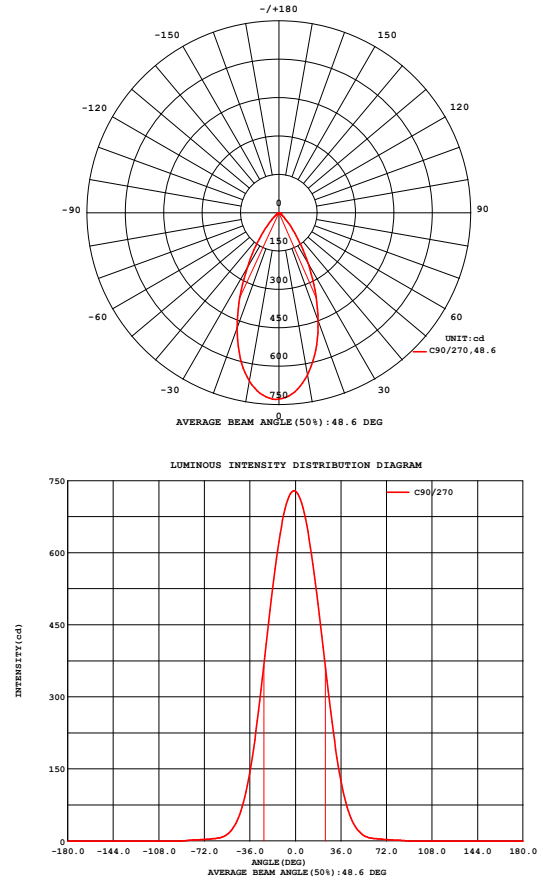


Fig. C90/C270

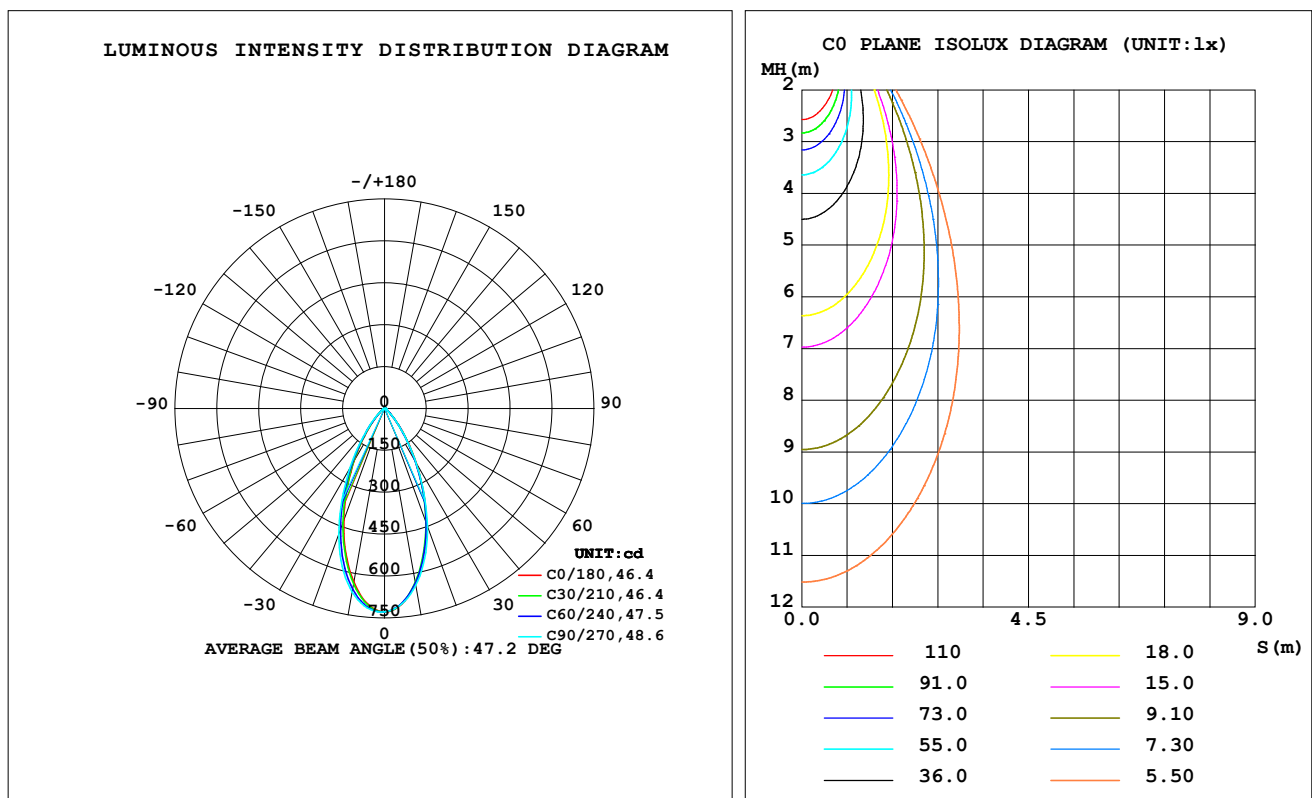
C Range: 0 - 360DEG
C Interval:For a lens beam angle of 60°
Test Speed: HIGH
Temperature:77.54 °F
Operators:zoe
Test Date:2023-12-25

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:BXRV-DR-1830G-100Z-A-23 Ra:90
LENS:PM-1103C 50R+DIFFUSER
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|-----------------------------------------------------------------------------------|---------------------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m ² | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 45.93 lm/W | | | |
|-------------------|-----------|----------------------------------|--------|---------------------|-----------|
| MODEL | Bridgelux | I _{max} (cd) | 728.9 | S/MH (C0/180) | 0.72 |
| NOMINAL POWER (W) | 11 | LOR (%) | 58.1 | S/MH (C90/270) | 0.78 |
| RATED VOLTAGE (V) | 120 | TOTAL FLUX (lm) | 518.88 | ☒ UP, DN (C0-180) | 0.0, 28.5 |
| NOMINAL FLUX (lm) | 893.4 | CIE CLASS | DIRECT | ☒ UP, DN (C180-360) | 0.0, 29.6 |
| LAMPS INSIDE | 1 | ☒ up (%) | 0.0 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE (V) | 120 | ☒ down (%) | 58.1 | CIBSE SHR MAX | 0.80 |



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 60°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-25

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: BXR-V-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103C 50R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| ° | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | ° | zone | total | %lum,lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-----------|
| 10 | 636.7 | 634.1 | 643.6 | 640.9 | 632.4 | 647.8 | 667.7 | 658.0 | 0- 10 | 65.45 | 65.45 | 12.6,7.33 |
| 20 | 439.4 | 434.7 | 448.9 | 442.2 | 427.7 | 448.8 | 479.7 | 468.1 | 10- 20 | 153.6 | 219.1 | 42.2,24.5 |
| 30 | 230.2 | 224.2 | 227.9 | 224.5 | 220.3 | 232.6 | 249.7 | 244.1 | 20- 30 | 153.1 | 372.2 | 71.7,41.7 |
| 40 | 82.87 | 79.60 | 80.04 | 78.88 | 78.67 | 84.57 | 90.77 | 87.91 | 30- 40 | 91.90 | 464.1 | 89.4,51.9 |
| 50 | 22.94 | 21.87 | 20.71 | 20.68 | 21.46 | 22.65 | 23.66 | 23.49 | 40- 50 | 35.49 | 499.6 | 96.3,55.9 |
| 60 | 6.711 | 6.441 | 6.105 | 5.977 | 5.943 | 6.245 | 6.626 | 6.727 | 50- 60 | 10.78 | 510.4 | 98.4,57.1 |
| 70 | 3.529 | 3.420 | 3.300 | 3.207 | 3.153 | 3.277 | 3.449 | 3.533 | 60- 70 | 4.594 | 514.9 | 99.2,57.6 |
| 80 | 2.188 | 2.134 | 1.834 | 1.961 | 1.916 | 2.011 | 2.150 | 2.204 | 70- 80 | 2.790 | 517.7 | 99.8,58 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 1.141 | 518.9 | 100,58.1 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 518.9 | 100,58.1 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 518.9 | 100,58.1 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 518.9 | 100,58.1 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 518.9 | 100,58.1 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 518.9 | 100,58.1 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 518.9 | 100,58.1 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 518.9 | 100,58.1 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 518.9 | 100,58.1 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 518.9 | 100,58.1 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG

C Interval:For a lens beam angle of 60°

Test Speed: HIGH

Temperature:77.54 °F

Operators:zoe

Test Date:2023-12-25

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:BXRV-DR-1830G-100Z-A-23 Ra:90

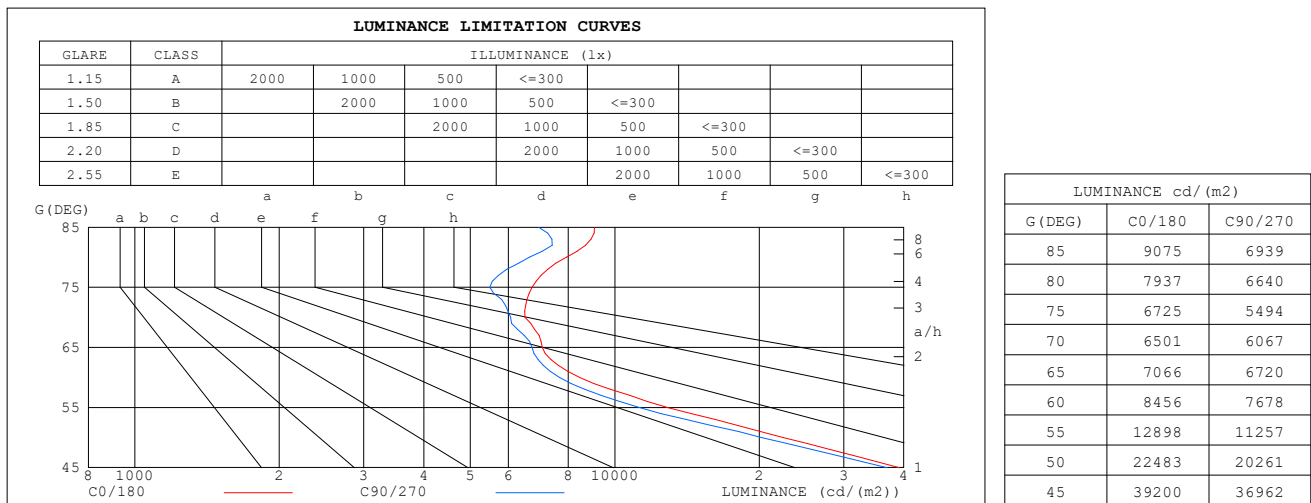
LENS:PM-1103C 50R+DIFFUSER

DRIVER:PUP10A-1WMC-700 500mA

30minutes warm-up

LUMINANCE LIMITATION CURVES

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | Shielding Angle: |



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 60°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-25

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: BXRV-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103C 50R+DIFFUSER

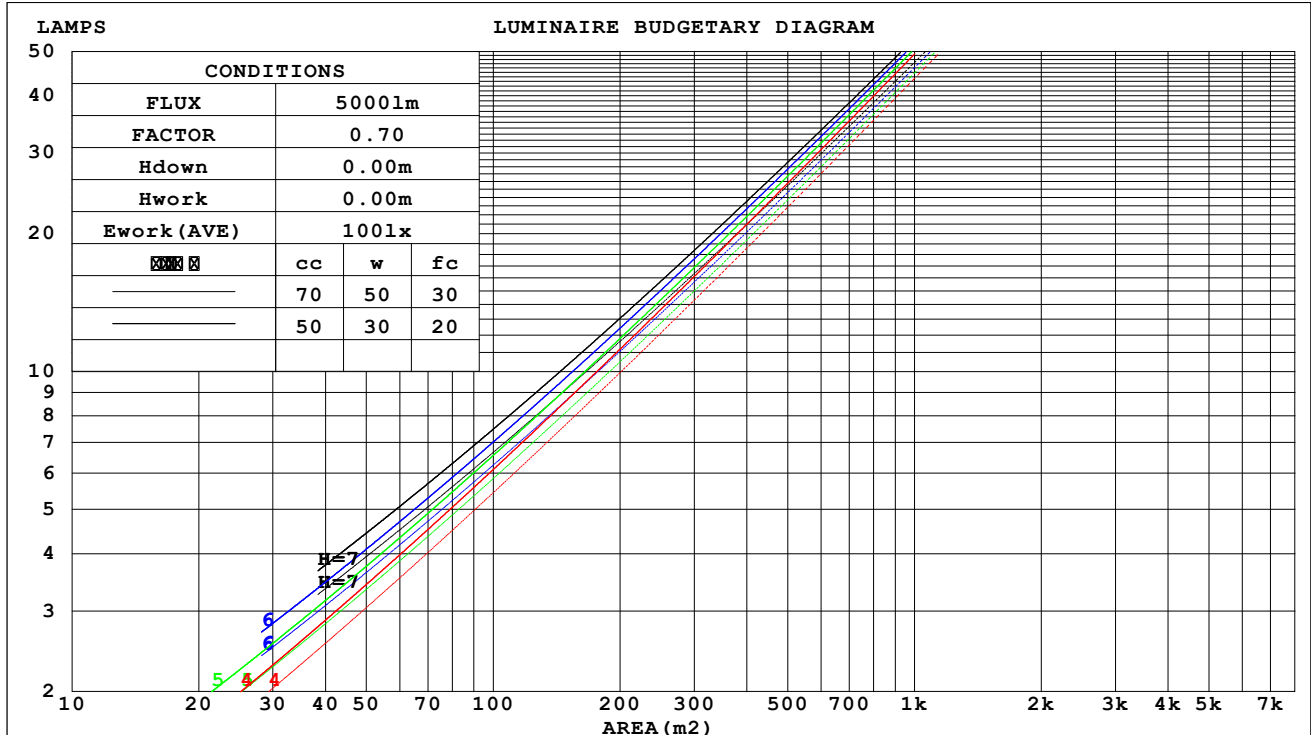
DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | 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 Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | .69 | .69 | .69 | .68 | .68 | .68 | .65 | .65 | .65 | .62 | .62 | .62 | .59 | .59 | .59 | .58 |
| 1.0 | .64 | .63 | .61 | .63 | .62 | .60 | .61 | .60 | .59 | .58 | .58 | .57 | .56 | .56 | .55 | .54 |
| 2.0 | .60 | .57 | .55 | .59 | .57 | .55 | .57 | .55 | .54 | .55 | .54 | .52 | .53 | .52 | .51 | .50 |
| 3.0 | .56 | .53 | .50 | .55 | .52 | .50 | .53 | .51 | .49 | .52 | .50 | .48 | .51 | .49 | .48 | .47 |
| 4.0 | .52 | .49 | .46 | .51 | .48 | .46 | .50 | .48 | .46 | .49 | .47 | .45 | .48 | .46 | .44 | .44 |
| 5.0 | .49 | .45 | .43 | .48 | .45 | .43 | .47 | .44 | .42 | .46 | .44 | .42 | .45 | .43 | .42 | .41 |
| 6.0 | .46 | .42 | .40 | .45 | .42 | .40 | .45 | .42 | .40 | .44 | .41 | .39 | .43 | .41 | .39 | .38 |
| 7.0 | .43 | .40 | .37 | .43 | .40 | .37 | .42 | .39 | .37 | .41 | .39 | .37 | .41 | .38 | .37 | .36 |
| 8.0 | .41 | .37 | .35 | .41 | .37 | .35 | .40 | .37 | .35 | .39 | .37 | .35 | .39 | .36 | .35 | .34 |
| 9.0 | .39 | .35 | .33 | .38 | .35 | .33 | .38 | .35 | .33 | .37 | .35 | .33 | .37 | .34 | .33 | .32 |
| 10.0 | .37 | .33 | .31 | .36 | .33 | .31 | .36 | .33 | .31 | .36 | .33 | .31 | .35 | .33 | .31 | .30 |



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 60°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-25

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: BXR-V-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103C 50R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

WEC AND CCEC

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | 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 | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .106 | .060 | .019 | .102 | .058 | .018 | .094 | .054 | .017 | .088 | .051 | .016 | .082 | .047 | .015 | |
| 2.0 | .101 | .055 | .017 | .097 | .054 | .017 | .091 | .051 | .016 | .086 | .048 | .015 | .080 | .045 | .014 | |
| 3.0 | .095 | .051 | .015 | .093 | .050 | .015 | .087 | .047 | .014 | .083 | .045 | .014 | .078 | .043 | .013 | |
| 4.0 | .091 | .047 | .014 | .088 | .046 | .014 | .084 | .044 | .013 | .079 | .043 | .013 | .075 | .041 | .012 | |
| 5.0 | .086 | .044 | .013 | .084 | .043 | .013 | .080 | .042 | .012 | .076 | .040 | .012 | .073 | .039 | .012 | |
| 6.0 | .082 | .041 | .012 | .080 | .040 | .012 | .077 | .039 | .011 | .073 | .038 | .011 | .070 | .037 | .011 | |
| 7.0 | .078 | .039 | .011 | .076 | .038 | .011 | .073 | .037 | .011 | .071 | .036 | .011 | .068 | .035 | .010 | |
| 8.0 | .075 | .036 | .010 | .073 | .036 | .010 | .070 | .035 | .010 | .068 | .034 | .010 | .065 | .034 | .010 | |
| 9.0 | .071 | .035 | .010 | .070 | .034 | .010 | .068 | .033 | .009 | .065 | .033 | .009 | .063 | .032 | .009 | |
| 10.0 | .068 | .033 | .009 | .067 | .032 | .009 | .065 | .032 | .009 | .063 | .031 | .009 | .061 | .031 | .009 | |

| ꠁcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| ꠁw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ꠁfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .111 | .111 | .111 | .095 | .095 | .095 | .065 | .065 | .065 | .037 | .037 | .037 | .012 | .012 | .012 | |
| 1.0 | .100 | .091 | .084 | .085 | .078 | .072 | .058 | .054 | .050 | .034 | .031 | .029 | .011 | .010 | .009 | |
| 2.0 | .091 | .077 | .065 | .078 | .066 | .056 | .053 | .046 | .039 | .031 | .027 | .023 | .010 | .009 | .008 | |
| 3.0 | .084 | .066 | .052 | .072 | .057 | .045 | .049 | .040 | .032 | .028 | .023 | .019 | .009 | .007 | .006 | |
| 4.0 | .078 | .057 | .042 | .067 | .050 | .036 | .046 | .035 | .026 | .027 | .020 | .015 | .009 | .007 | .005 | |
| 5.0 | .073 | .051 | .034 | .062 | .044 | .030 | .043 | .031 | .021 | .025 | .018 | .013 | .008 | .006 | .004 | |
| 6.0 | .068 | .045 | .029 | .059 | .039 | .025 | .041 | .027 | .018 | .024 | .016 | .011 | .008 | .005 | .003 | |
| 7.0 | .065 | .041 | .024 | .056 | .035 | .021 | .038 | .025 | .015 | .022 | .015 | .009 | .007 | .005 | .003 | |
| 8.0 | .061 | .037 | .021 | .053 | .032 | .018 | .036 | .023 | .013 | .021 | .013 | .008 | .007 | .004 | .003 | |
| 9.0 | .058 | .034 | .018 | .050 | .030 | .016 | .035 | .021 | .011 | .020 | .012 | .007 | .007 | .004 | .002 | |
| 10.0 | .055 | .032 | .016 | .048 | .028 | .014 | .033 | .019 | .010 | .019 | .011 | .006 | .006 | .004 | .002 | |

C Range: 0 - 360DEG

C Interval:For a lens beam angle of 60°

Test Speed: HIGH

Temperature:77.54 °F

Operators:zoe

Test Date:2023-12-25

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:BXRV-DR-1830G-100Z-A-23 Ra:90

LENS:PM-1103C 50R+DIFFUSER

DRIVER:PUP10A-1WMC-700 500mA

30minutes warm-up

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|---------------|------------------|------|------|---------------------|---------------|----------------|------------------------|------|------|------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | | | | | | | | | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | | | | | TYPE: | | | WEIGHT: | | | |
| SPEC.: 3000K | | | | | DIM.: | | | SERIAL No.: 2312251377 | | | |
| MFR.: MERCURY LIGHTING | | | | | SUR.: 0.001589625m2 | | | 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 | 20.7 | 21.6 | 20.9 | 21.8 | 22.0 | 20.5 | 21.4 | 20.7 | 21.6 | 21.8 |
| | 3H | 20.7 | 21.5 | 20.9 | 21.7 | 21.9 | 20.4 | 21.3 | 20.7 | 21.5 | 21.7 |
| | 4H | 20.7 | 21.5 | 20.9 | 21.7 | 21.9 | 20.4 | 21.3 | 20.7 | 21.5 | 21.7 |
| | 6H | 20.7 | 21.5 | 21.0 | 21.7 | 22.0 | 20.4 | 21.2 | 20.7 | 21.5 | 21.7 |
| | 8H | 20.7 | 21.5 | 21.0 | 21.7 | 22.0 | 20.5 | 21.2 | 20.8 | 21.5 | 21.7 |
| | 12H | 20.7 | 21.5 | 21.1 | 21.7 | 22.0 | 20.5 | 21.2 | 20.8 | 21.4 | 21.7 |
| 4H | 2H | 20.5 | 21.3 | 20.8 | 21.6 | 21.8 | 20.3 | 21.1 | 20.6 | 21.4 | 21.6 |
| | 3H | 20.5 | 21.3 | 20.9 | 21.5 | 21.8 | 20.3 | 21.1 | 20.7 | 21.3 | 21.6 |
| | 4H | 20.6 | 21.2 | 20.9 | 21.5 | 21.8 | 20.4 | 21.0 | 20.7 | 21.3 | 21.6 |
| | 6H | 20.7 | 21.3 | 21.1 | 21.6 | 21.9 | 20.4 | 21.0 | 20.8 | 21.3 | 21.7 |
| | 8H | 20.8 | 21.3 | 21.2 | 21.7 | 22.0 | 20.5 | 21.0 | 20.9 | 21.4 | 21.7 |
| | 12H | 20.8 | 21.3 | 21.2 | 21.7 | 22.1 | 20.5 | 21.0 | 20.9 | 21.4 | 21.8 |
| 8H | 4H | 20.5 | 21.1 | 20.9 | 21.4 | 21.8 | 20.3 | 20.8 | 20.7 | 21.2 | 21.6 |
| | 6H | 20.7 | 21.1 | 21.1 | 21.5 | 22.0 | 20.5 | 20.9 | 20.9 | 21.3 | 21.7 |
| | 8H | 20.8 | 21.2 | 21.3 | 21.6 | 22.1 | 20.6 | 21.0 | 21.0 | 21.4 | 21.8 |
| | 12H | 21.0 | 21.3 | 21.4 | 21.7 | 22.2 | 20.7 | 21.0 | 21.1 | 21.4 | 21.9 |
| 12H | 4H | 20.5 | 21.0 | 20.9 | 21.4 | 21.7 | 20.3 | 20.8 | 20.7 | 21.1 | 21.5 |
| | 6H | 20.7 | 21.1 | 21.2 | 21.5 | 21.9 | 20.5 | 20.8 | 20.9 | 21.3 | 21.7 |
| | 8H | 20.9 | 21.2 | 21.3 | 21.6 | 22.1 | 20.6 | 20.9 | 21.1 | 21.4 | 21.8 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | | |
| S = 1.0H | + 2.2 / - 3.6 | | | | | + 2.3 / - 3.9 | | | | | |
| 1.5H | + 3.8 / - 3.4 | | | | | + 3.8 / - 3.6 | | | | | |
| 2.0H | + 3.8 / - 2.1 | | | | | + 3.9 / - 2.1 | | | | | |

CIE Pub.117, 893.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
 Area: 0.00158963 m2

C Range: 0 - 360DEG

C Interval:For a lens beam angle of 60°

Test Speed: HIGH

Temperature:77.54 °F

Operators:zoe

Test Date:2023-12-25

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:BXRV-DR-1830G-100Z-A-23 Ra:90

LENS:PM-1103C 50R+DIFFUSER

DRIVER:PUP10A-1WMC-700 500mA

30minutes warm-up

UTILIZATION FACTORS TABLE

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | Shielding Angle: |

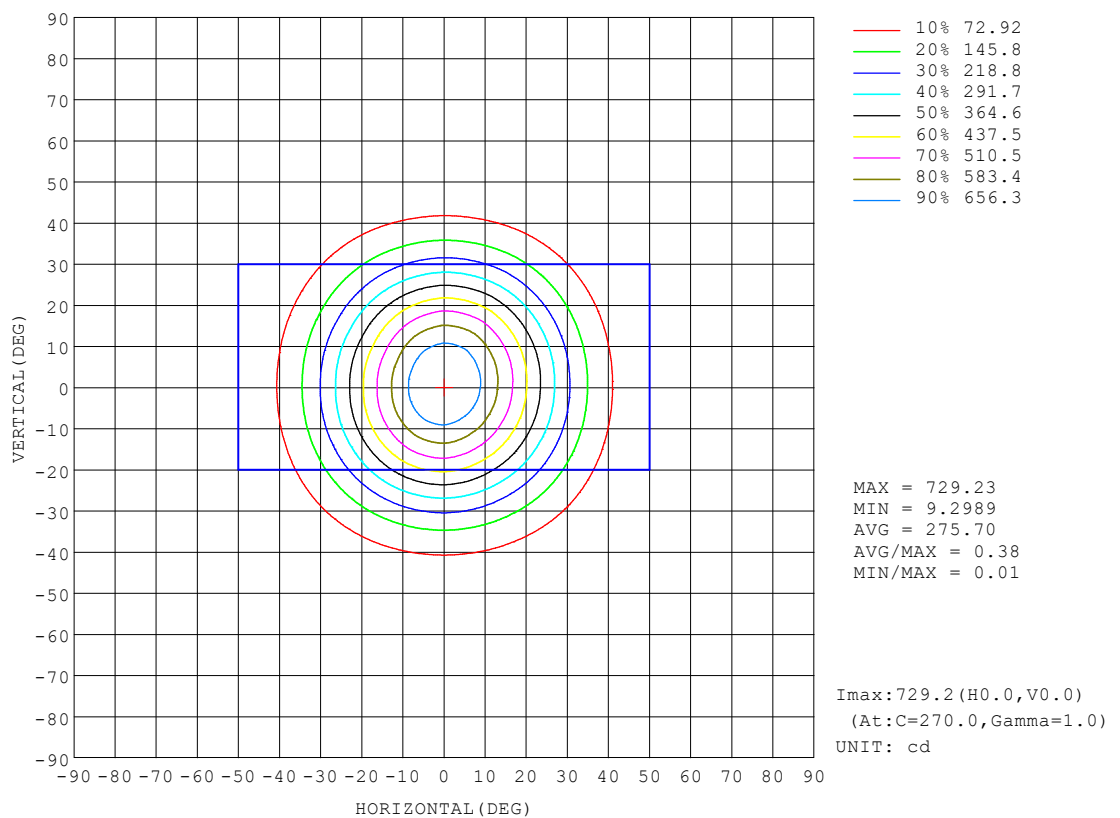
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 49 | 45 | 43 | 49 | 45 | 43 | 49 | 45 | 43 | 41 |
| 0.80 | 54 | 50 | 48 | 53 | 50 | 48 | 53 | 50 | 48 | 45 |
| 1.00 | 57 | 53 | 51 | 56 | 53 | 51 | 55 | 53 | 50 | 48 |
| 1.25 | 59 | 56 | 54 | 59 | 56 | 54 | 57 | 55 | 53 | 51 |
| 1.50 | 61 | 58 | 56 | 60 | 57 | 56 | 59 | 57 | 55 | 52 |
| 2.00 | 63 | 60 | 58 | 62 | 59 | 58 | 60 | 58 | 57 | 54 |
| 2.50 | 64 | 61 | 59 | 63 | 61 | 59 | 61 | 59 | 58 | 54 |
| 3.00 | 65 | 62 | 61 | 64 | 62 | 60 | 62 | 60 | 59 | 55 |
| 4.00 | 66 | 64 | 63 | 65 | 63 | 62 | 62 | 61 | 60 | 56 |
| 5.00 | 67 | 65 | 64 | 65 | 64 | 63 | 63 | 62 | 61 | 57 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: For a lens beam angle of 60°
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2023-12-25

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: BXRV-DR-1830G-100Z-A-23 Ra: 90
 LENS: PM-1103C 50R+DIFFUSER
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up

ISOCANDELA DIAGRAM

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | Shielding Angle: |

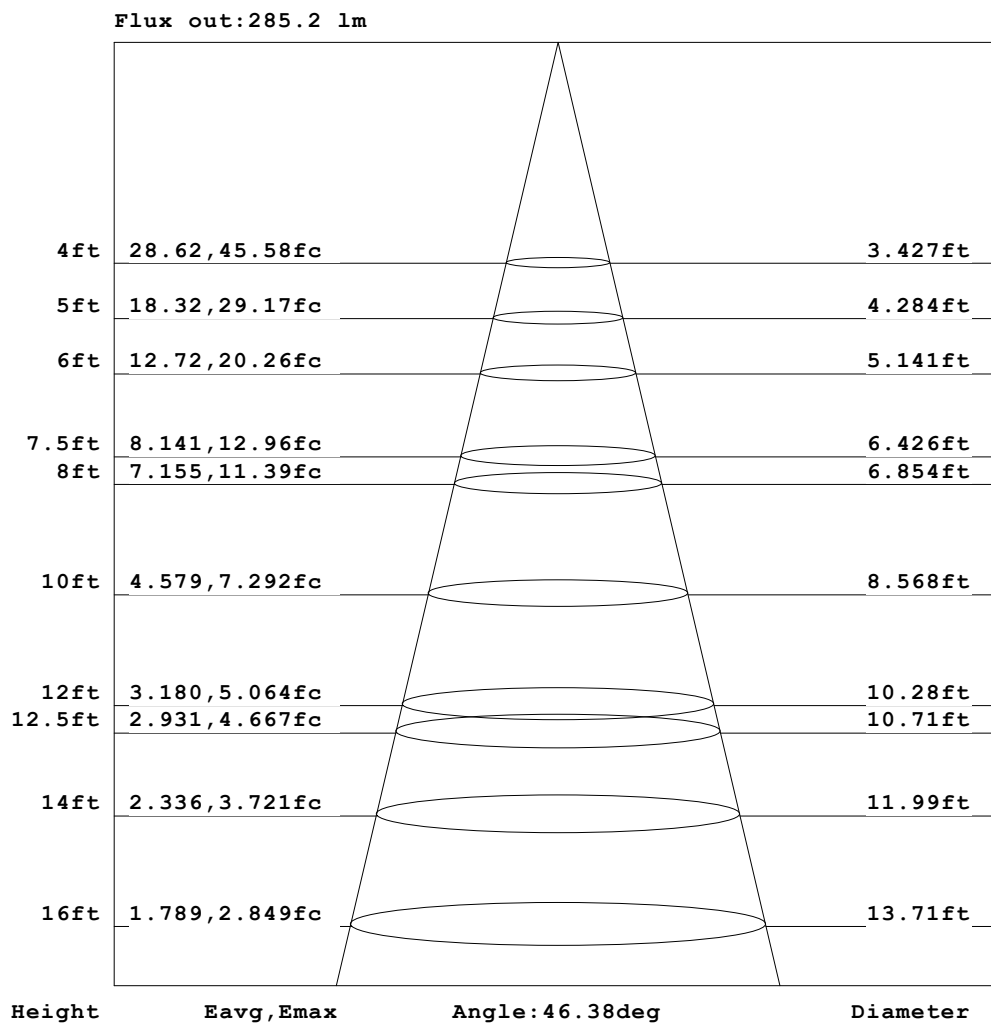


C Range: 0 - 360DEG
 C Interval: For a lens beam angle of 60°
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2023-12-25

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: BXR-V-DR-1830G-100Z-A-23 Ra: 90
 LENS: PM-1103C 50R+DIFFUSER
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up

AAI Figure

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | 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: For a lens beam angle of 60°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-25

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: BXRV-DR-1830G-100Z-A-23 Ra: 90

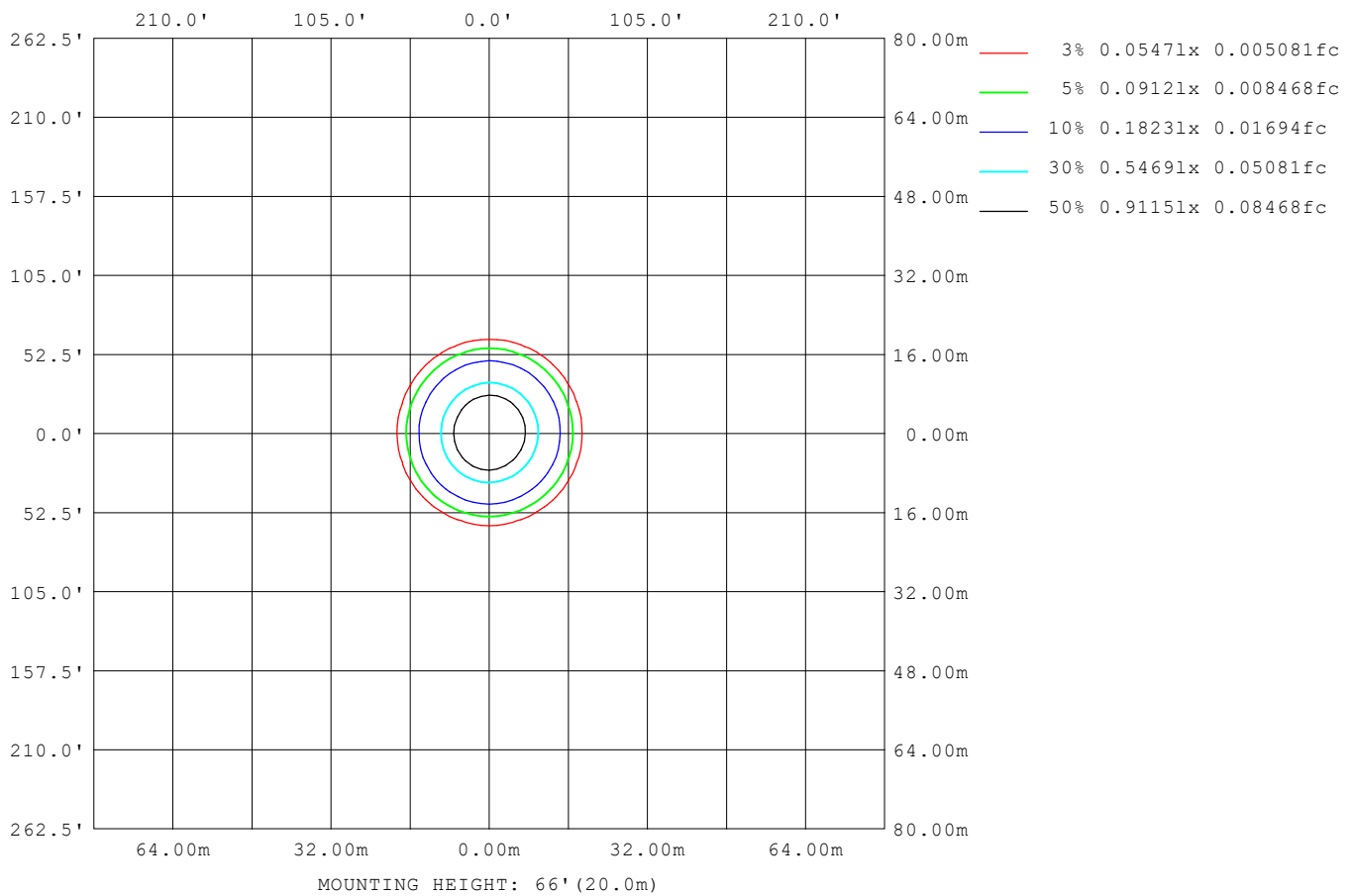
LENS: PM-1103C 50R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

ISOLUX DIAGRAM

| | | |
|---------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|
| Test: U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux: 893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: For a lens beam angle of 60°
Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2023-12-25

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: BXR-V-DR-1830G-100Z-A-23 Ra:90
 LENS: PM-1103C 50R+DIFFUSER
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up

LED Avg.L Report

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | Shielding Angle: |

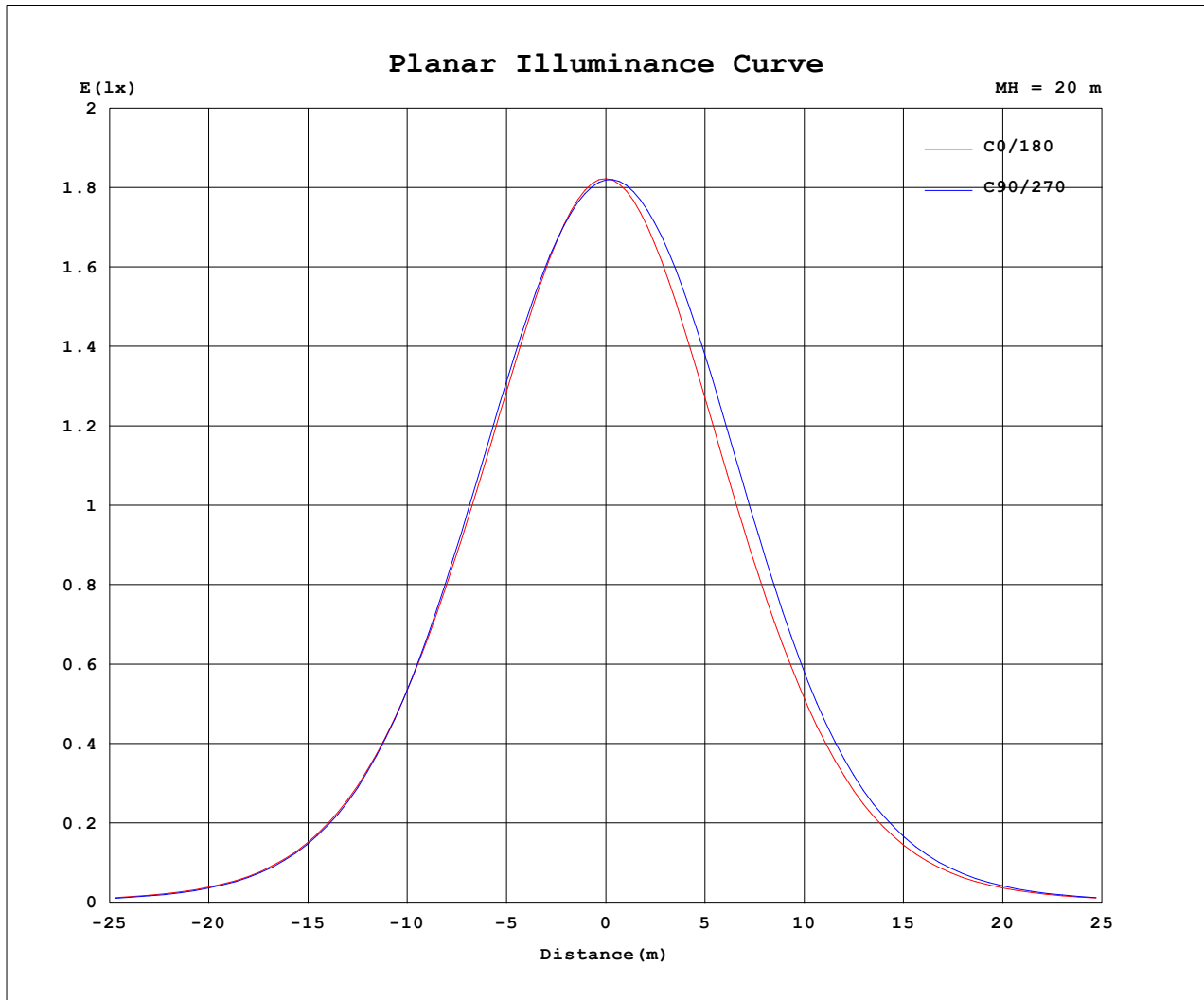
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 6769 |
| L_0~180 (75) av | 6344 |
| L_0~180 (85) av | 7746 |
| L_90~270 (65) av | 6838 |
| L_90~270 (75) av | 6042 |
| L_90~270 (85) av | 7678 |
| L_45 (65) av | 6811 |
| L_45 (75) av | 6416 |
| L_45 (85) av | 7815 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: For a lens beam angle of 60°
 Test Speed: HIGH
 Temperature: 77.54 °F
 Operators: zoe
 Test Date: 2023-12-25

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: BXR-V-DR-1830G-100Z-A-23 Ra: 90
 LENS: PM-1103C 50R+DIFFUSER
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: For a lens beam angle of 60°
Test Speed: HIGH
Temperature: 77.54 °F
Operators: zoe
Test Date: 2023-12-25

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: BXRV-DR-1830G-100Z-A-23 Ra: 90
LENS: PM-1103C 50R+DIFFUSER
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------------------------------------------------------------------|---------------------|------------------------|
| Test:U:120.22V I:0.0951A P:11.297W PF:0.9869 Freq:59.98Hz Lamp Flux:893.4x1 lm | | |
| NAME: CTL-MM-1.5-DM-60-RD-AD-OPS-SG | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2312251377 |
| MFR.: MERCURY LIGHTING | SUR.: 0.001589625m2 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 728 | 728 | 728 | 728 | 728 | 728 | 728 | 728 | 728 | 728 | 728 | 728 | | | | | | |
| 5 | 704 | 701 | 700 | 703 | 704 | 703 | 702 | 705 | 713 | 716 | 715 | 709 | | | | | | |
| 10 | 637 | 633 | 635 | 644 | 644 | 638 | 632 | 639 | 657 | 668 | 666 | 650 | | | | | | |
| 15 | 544 | 538 | 544 | 556 | 556 | 545 | 536 | 544 | 570 | 586 | 584 | 563 | | | | | | |
| 20 | 439 | 433 | 436 | 449 | 448 | 437 | 428 | 436 | 462 | 480 | 478 | 458 | | | | | | |
| 25 | 331 | 325 | 326 | 334 | 333 | 325 | 320 | 326 | 347 | 361 | 361 | 346 | | | | | | |
| 30 | 230 | 225 | 223 | 228 | 226 | 223 | 220 | 225 | 240 | 250 | 249 | 239 | | | | | | |
| 35 | 145 | 141 | 139 | 142 | 141 | 139 | 138 | 142 | 152 | 158 | 157 | 151 | | | | | | |
| 40 | 82.9 | 80.4 | 78.8 | 80.0 | 79.2 | 78.6 | 78.7 | 81.8 | 87.3 | 90.8 | 89.8 | 86.0 | | | | | | |
| 45 | 44.0 | 43.1 | 41.6 | 41.6 | 41.2 | 41.6 | 42.0 | 43.2 | 46.2 | 47.7 | 47.4 | 45.3 | | | | | | |
| 50 | 22.9 | 22.5 | 21.2 | 20.7 | 20.3 | 21.0 | 21.5 | 22.0 | 23.3 | 23.7 | 23.7 | 23.3 | | | | | | |
| 55 | 11.7 | 11.4 | 10.7 | 10.3 | 10.1 | 10.2 | 10.4 | 10.8 | 11.3 | 11.6 | 11.8 | 11.8 | | | | | | |
| 60 | 6.71 | 6.57 | 6.31 | 6.10 | 5.98 | 5.98 | 5.94 | 6.07 | 6.42 | 6.63 | 6.74 | 6.71 | | | | | | |
| 65 | 4.74 | 4.69 | 4.60 | 4.52 | 4.44 | 4.40 | 4.35 | 4.41 | 4.55 | 4.67 | 4.75 | 4.76 | | | | | | |
| 70 | 3.53 | 3.46 | 3.38 | 3.30 | 3.23 | 3.18 | 3.15 | 3.21 | 3.34 | 3.45 | 3.52 | 3.55 | | | | | | |
| 75 | 2.76 | 2.72 | 2.65 | 2.26 | 2.52 | 2.48 | 2.46 | 2.50 | 2.62 | 2.71 | 2.77 | 2.78 | | | | | | |
| 80 | 2.19 | 2.16 | 2.11 | 1.83 | 1.98 | 1.94 | 1.92 | 1.96 | 2.06 | 2.15 | 2.20 | 2.21 | | | | | | |
| 85 | 1.26 | 1.21 | 1.10 | 0.96 | 0.93 | 0.90 | 0.89 | 0.94 | 1.07 | 1.17 | 1.24 | 1.26 | | | | | | |
| 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 lens beam angle of 60°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-25

γ Range: 0 - 180DEG

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30minutes warm-up