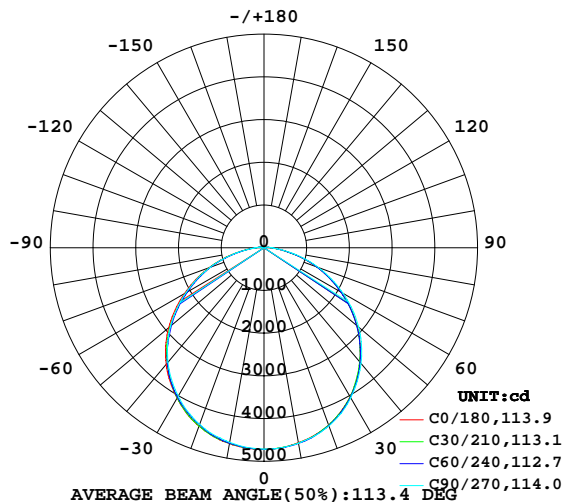


LUMINAIRE PHOTOMETRIC TEST REPORT

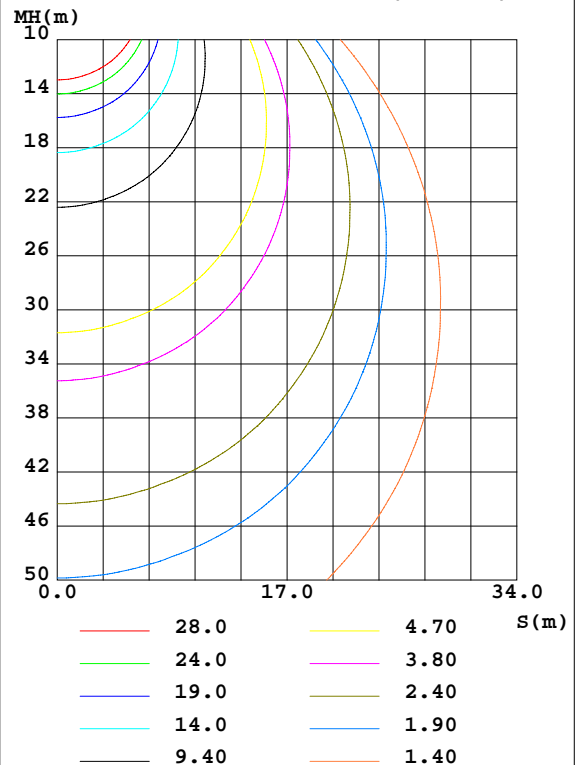
| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 148.60 lm/W | | | |
|------------------|-----------------|-----------------------------------|--------|------------------------|----------|
| MODEL | MHB0697W27VDDKB | Imax(cd) | 4724 | S/MH(C0/180) | 1.28 |
| NOMINAL POWER(W) | 97 | LOR(%) | 100.0 | S/MH(C90/270) | 1.27 |
| RATED VOLTAGE(V) | 120-277 | TOTAL FLUX(lm) | 14071 | η UP,DN(C0-180) | 0.8,49.2 |
| NOMINAL FLUX(lm) | 14071.3 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.9,49.1 |
| LAMPS INSIDE | 1 | η up(%) | 1.7 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 120 | η down(%) | 98.3 | CIBSE SHR MAX | 1.35 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 4632 | 4647 | 4645 | 4644 | 4652 | 4653 | 4626 | 4623 | 0- 10 | 446.5 | 446.5 | 3.17,3.17 |
| 20 | 4418 | 4428 | 4441 | 4426 | 4445 | 4425 | 4398 | 4413 | 10- 20 | 1285 | 1732 | 12.3,12.3 |
| 30 | 4032 | 4039 | 4060 | 4058 | 4066 | 4062 | 4013 | 4041 | 20- 30 | 1961 | 3692 | 26.2,26.2 |
| 40 | 3494 | 3497 | 3535 | 3521 | 3561 | 3529 | 3497 | 3480 | 30- 40 | 2373 | 6065 | 43.1,43.1 |
| 50 | 2842 | 2833 | 2895 | 2848 | 2913 | 2838 | 2855 | 2801 | 40- 50 | 2462 | 8528 | 60.6,60.6 |
| 60 | 2093 | 2085 | 2141 | 2099 | 2151 | 2072 | 2107 | 2046 | 50- 60 | 2217 | 10744 | 76.4,76.4 |
| 70 | 1324 | 1317 | 1360 | 1348 | 1370 | 1330 | 1342 | 1302 | 60- 70 | 1699 | 12443 | 88.4,88.4 |
| 80 | 565.3 | 561.4 | 596.4 | 594.0 | 626.2 | 588.8 | 598.8 | 560.4 | 70- 80 | 1007 | 13450 | 95.6,95.6 |
| 90 | 173.7 | 174.6 | 178.1 | 188.4 | 189.8 | 188.3 | 186.3 | 182.0 | 80- 90 | 377.5 | 13827 | 98.3,98.3 |
| 100 | 81.74 | 79.60 | 83.56 | 88.46 | 89.95 | 88.40 | 88.93 | 85.35 | 90-100 | 140.9 | 13968 | 99.3,99.3 |
| 110 | 33.95 | 32.86 | 35.16 | 36.91 | 38.40 | 37.51 | 37.79 | 36.43 | 100-110 | 61.65 | 14030 | 99.7,99.7 |
| 120 | 11.80 | 11.83 | 12.55 | 13.53 | 14.35 | 13.89 | 14.03 | 13.84 | 110-120 | 23.30 | 14053 | 99.9,99.9 |
| 130 | 3.381 | 3.558 | 3.610 | 4.097 | 5.240 | 5.135 | 5.151 | 5.201 | 120-130 | 7.292 | 14061 | 99.9,99.9 |
| 140 | 3.294 | 3.261 | 3.246 | 3.228 | 4.882 | 4.904 | 4.916 | 4.933 | 130-140 | 2.976 | 14063 | 99.9,99.9 |
| 150 | 4.005 | 3.984 | 3.962 | 3.947 | 6.106 | 6.124 | 6.126 | 6.142 | 140-150 | 2.852 | 14066 | 100,100 |
| 160 | 4.820 | 4.813 | 4.814 | 4.778 | 7.257 | 7.261 | 7.246 | 7.266 | 150-160 | 2.561 | 14069 | 100,100 |
| 170 | 5.514 | 5.519 | 5.523 | 5.459 | 7.420 | 7.404 | 7.391 | 7.400 | 160-170 | 1.779 | 14071 | 100,100 |
| 180 | 6.768 | 6.753 | 6.749 | 6.725 | 6.761 | 6.761 | 6.732 | 6.728 | 170-180 | 0.6223 | 14071 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 7306.4 lm

%lum = 51.9%

%lamp = 51.9%

Conical surface Flux(120deg): 10744 lm

%lum = 76.4%

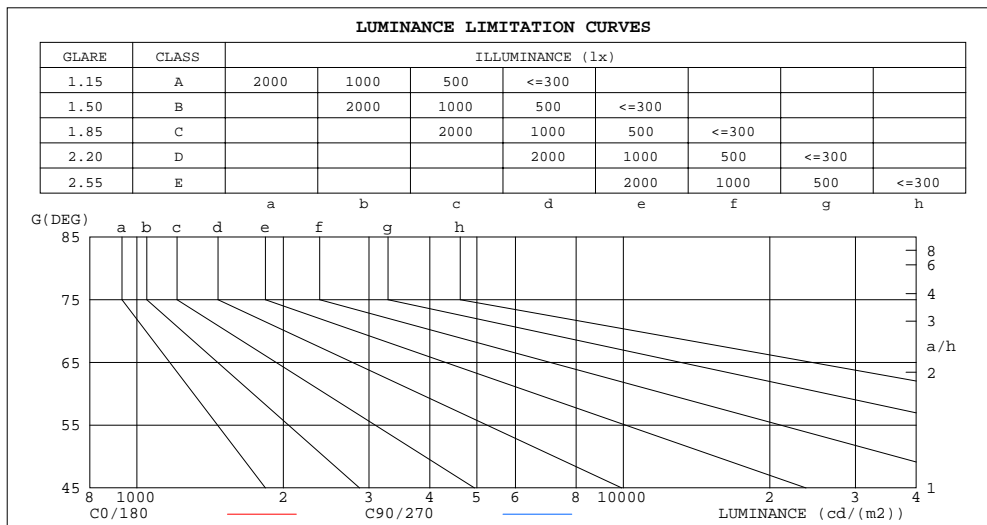
%lamp = 76.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 55841 | 58989 |
| 80 | 52897 | 55808 |
| 75 | 58119 | 60641 |
| 70 | 62898 | 64609 |
| 65 | 65646 | 67086 |
| 60 | 68019 | 69565 |
| 55 | 70094 | 71635 |
| 50 | 71838 | 73178 |
| 45 | 73080 | 74167 |

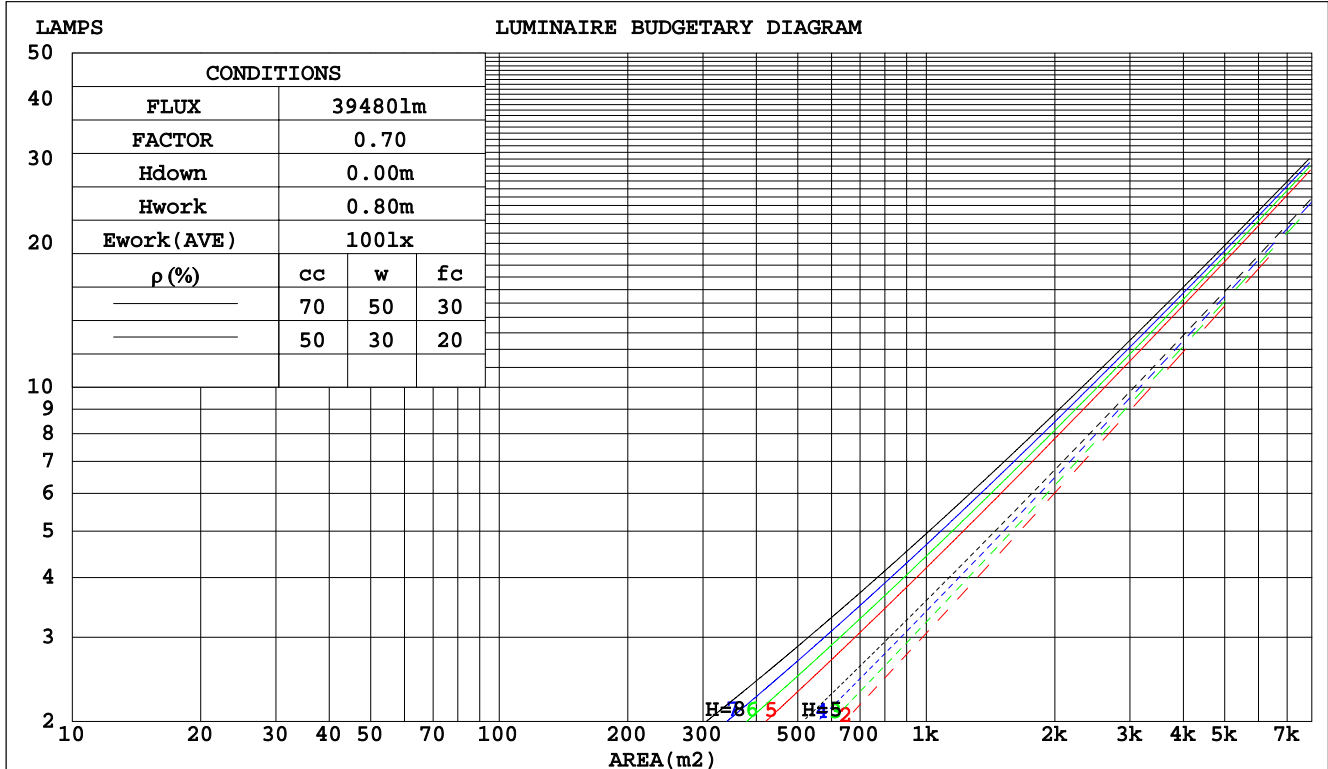
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 45.1%
Test Distance: 2.500m [K=1.0441]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98 |
| 1.0 | 1.03 | .99 | .95 | 1.01 | .96 | .93 | .96 | .93 | .90 | .92 | .89 | .87 | .88 | .86 | .84 | .81 |
| 2.0 | .90 | .83 | .77 | .87 | .81 | .76 | .84 | .78 | .74 | .80 | .76 | .72 | .77 | .73 | .70 | .67 |
| 3.0 | .79 | .70 | .64 | .77 | .69 | .63 | .74 | .67 | .62 | .71 | .65 | .60 | .68 | .63 | .59 | .57 |
| 4.0 | .69 | .61 | .54 | .68 | .60 | .53 | .65 | .58 | .52 | .63 | .56 | .51 | .60 | .55 | .51 | .48 |
| 5.0 | .62 | .53 | .46 | .61 | .52 | .46 | .58 | .51 | .45 | .56 | .50 | .45 | .54 | .48 | .44 | .42 |
| 6.0 | .56 | .47 | .40 | .55 | .46 | .40 | .53 | .45 | .39 | .51 | .44 | .39 | .49 | .43 | .39 | .36 |
| 7.0 | .51 | .42 | .35 | .50 | .41 | .35 | .48 | .40 | .35 | .46 | .40 | .35 | .45 | .39 | .34 | .32 |
| 8.0 | .46 | .37 | .32 | .45 | .37 | .31 | .44 | .36 | .31 | .42 | .36 | .31 | .41 | .35 | .31 | .29 |
| 9.0 | .42 | .34 | .28 | .42 | .34 | .28 | .40 | .33 | .28 | .39 | .33 | .28 | .38 | .32 | .28 | .26 |
| 10.0 | .39 | .31 | .26 | .38 | .31 | .26 | .37 | .30 | .25 | .36 | .30 | .25 | .35 | .29 | .25 | .23 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

WEC AND CCEC

| | | | | | | | | |
|--|--|--|-----------|--|--|------------------|--|--|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | | | | | | | |
| NAME: High bay | | | TYPE: LED | | | WEIGHT: | | |
| SPEC.: | | | DIM.: | | | SERIAL No.: | | |
| MFR.: MESTER LED LTD | | | SUR.: | | | Shielding Angle: | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .319 | .181 | .057 | .311 | .178 | .056 | .297 | .170 | .054 | .284 | .164 | .053 | .272 | .158 | .051 | | |
| 2.0 | .296 | .162 | .050 | .290 | .160 | .049 | .277 | .154 | .048 | .265 | .149 | .047 | .255 | .144 | .045 | | |
| 3.0 | .273 | .145 | .043 | .267 | .143 | .043 | .256 | .139 | .042 | .245 | .134 | .041 | .236 | .130 | .040 | | |
| 4.0 | .251 | .130 | .038 | .246 | .129 | .038 | .236 | .125 | .037 | .226 | .122 | .037 | .218 | .118 | .036 | | |
| 5.0 | .232 | .118 | .034 | .227 | .116 | .034 | .218 | .114 | .033 | .210 | .111 | .033 | .202 | .108 | .032 | | |
| 6.0 | .215 | .108 | .031 | .210 | .106 | .031 | .202 | .104 | .030 | .195 | .101 | .030 | .188 | .099 | .029 | | |
| 7.0 | .199 | .099 | .028 | .196 | .098 | .028 | .189 | .095 | .027 | .182 | .093 | .027 | .176 | .091 | .027 | | |
| 8.0 | .186 | .091 | .026 | .183 | .090 | .025 | .176 | .088 | .025 | .170 | .086 | .025 | .165 | .085 | .025 | | |
| 9.0 | .174 | .084 | .024 | .171 | .084 | .023 | .166 | .082 | .023 | .160 | .080 | .023 | .155 | .079 | .023 | | |
| 10.0 | .164 | .079 | .022 | .161 | .078 | .022 | .156 | .076 | .022 | .151 | .075 | .021 | .146 | .074 | .021 | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .204 | .204 | .204 | .174 | .174 | .174 | .119 | .119 | .119 | .068 | .068 | .068 | .022 | .022 | .022 | |
| 1.0 | .194 | .169 | .147 | .166 | .145 | .126 | .114 | .100 | .087 | .065 | .058 | .051 | .021 | .019 | .016 | |
| 2.0 | .186 | .145 | .111 | .160 | .125 | .096 | .109 | .087 | .067 | .063 | .050 | .039 | .020 | .016 | .013 | |
| 3.0 | .179 | .128 | .087 | .153 | .110 | .076 | .105 | .077 | .053 | .061 | .045 | .031 | .019 | .015 | .010 | |
| 4.0 | .171 | .115 | .072 | .147 | .099 | .062 | .101 | .069 | .044 | .058 | .040 | .026 | .019 | .013 | .009 | |
| 5.0 | .163 | .104 | .061 | .140 | .090 | .053 | .097 | .063 | .037 | .056 | .037 | .022 | .018 | .012 | .007 | |
| 6.0 | .156 | .096 | .053 | .134 | .083 | .046 | .093 | .058 | .032 | .054 | .034 | .019 | .017 | .011 | .006 | |
| 7.0 | .149 | .089 | .047 | .128 | .077 | .041 | .089 | .054 | .029 | .052 | .032 | .017 | .017 | .010 | .006 | |
| 8.0 | .143 | .083 | .042 | .123 | .072 | .037 | .085 | .051 | .026 | .049 | .030 | .016 | .016 | .010 | .005 | |
| 9.0 | .137 | .078 | .039 | .118 | .068 | .034 | .082 | .048 | .024 | .048 | .028 | .014 | .015 | .009 | .005 | |
| 10.0 | .131 | .074 | .036 | .113 | .064 | .032 | .078 | .045 | .022 | .046 | .027 | .013 | .015 | .009 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|--|-----|------------------|------|------|-----------|----------------|------|------------------|------|------|------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | | | | | | | | | | |
| NAME: High bay | | | | | TYPE: LED | | | WEIGHT: | | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | | |
| MFR.: MESTER LED LTD | | | | | 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 | 2H | 26.8 | 28.4 | 27.2 | 28.7 | 29.1 | 26.9 | 28.5 | 27.3 | 28.9 | 29.2 |
| | 3H | 28.6 | 30.1 | 29.0 | 30.4 | 30.8 | 28.8 | 30.2 | 29.2 | 30.6 | 31.0 |
| | 4H | 29.3 | 30.7 | 29.7 | 31.1 | 31.5 | 29.5 | 30.9 | 29.9 | 31.3 | 31.7 |
| | 6H | 29.8 | 31.1 | 30.2 | 31.5 | 31.9 | 30.0 | 31.3 | 30.5 | 31.7 | 32.1 |
| | 8H | 30.0 | 31.2 | 30.4 | 31.6 | 32.1 | 30.2 | 31.4 | 30.7 | 31.9 | 32.3 |
| | 12H | 30.1 | 31.3 | 30.6 | 31.7 | 32.2 | 30.4 | 31.5 | 30.8 | 32.0 | 32.4 |
| 4H | 2H | 27.4 | 28.8 | 27.8 | 29.2 | 29.6 | 27.5 | 28.9 | 28.0 | 29.3 | 29.7 |
| | 3H | 29.5 | 30.6 | 29.9 | 31.1 | 31.5 | 29.6 | 30.8 | 30.1 | 31.2 | 31.7 |
| | 4H | 30.3 | 31.3 | 30.7 | 31.8 | 32.3 | 30.5 | 31.5 | 30.9 | 32.0 | 32.5 |
| | 6H | 30.9 | 31.8 | 31.4 | 32.3 | 32.8 | 31.2 | 32.1 | 31.6 | 32.6 | 33.1 |
| | 8H | 31.1 | 32.0 | 31.6 | 32.5 | 33.0 | 31.4 | 32.3 | 31.9 | 32.7 | 33.3 |
| | 12H | 31.3 | 32.1 | 31.9 | 32.6 | 33.1 | 31.6 | 32.4 | 32.1 | 32.9 | 33.4 |
| 8H | 4H | 30.6 | 31.5 | 31.1 | 31.9 | 32.4 | 30.8 | 31.7 | 31.3 | 32.2 | 32.7 |
| | 6H | 31.4 | 32.1 | 31.9 | 32.6 | 33.1 | 31.6 | 32.3 | 32.1 | 32.9 | 33.4 |
| | 8H | 31.7 | 32.3 | 32.2 | 32.9 | 33.4 | 32.0 | 32.6 | 32.5 | 33.2 | 33.7 |
| | 12H | 32.0 | 32.5 | 32.5 | 33.1 | 33.7 | 32.3 | 32.9 | 32.8 | 33.4 | 34.0 |
| 12H | 4H | 30.6 | 31.4 | 31.1 | 31.9 | 32.4 | 30.9 | 31.6 | 31.4 | 32.1 | 32.6 |
| | 6H | 31.4 | 32.1 | 32.0 | 32.6 | 33.2 | 31.7 | 32.4 | 32.3 | 32.9 | 33.4 |
| | 8H | 31.8 | 32.4 | 32.3 | 32.9 | 33.5 | 32.1 | 32.7 | 32.6 | 33.2 | 33.8 |
| CIE190: 2010 | | | | | | | | | | | |
| | | | | | | | | | | | |

CIE190: 2010
Area: 0.061544 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 45.1%
Test Distance: 2.500m [K=1.0441]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |

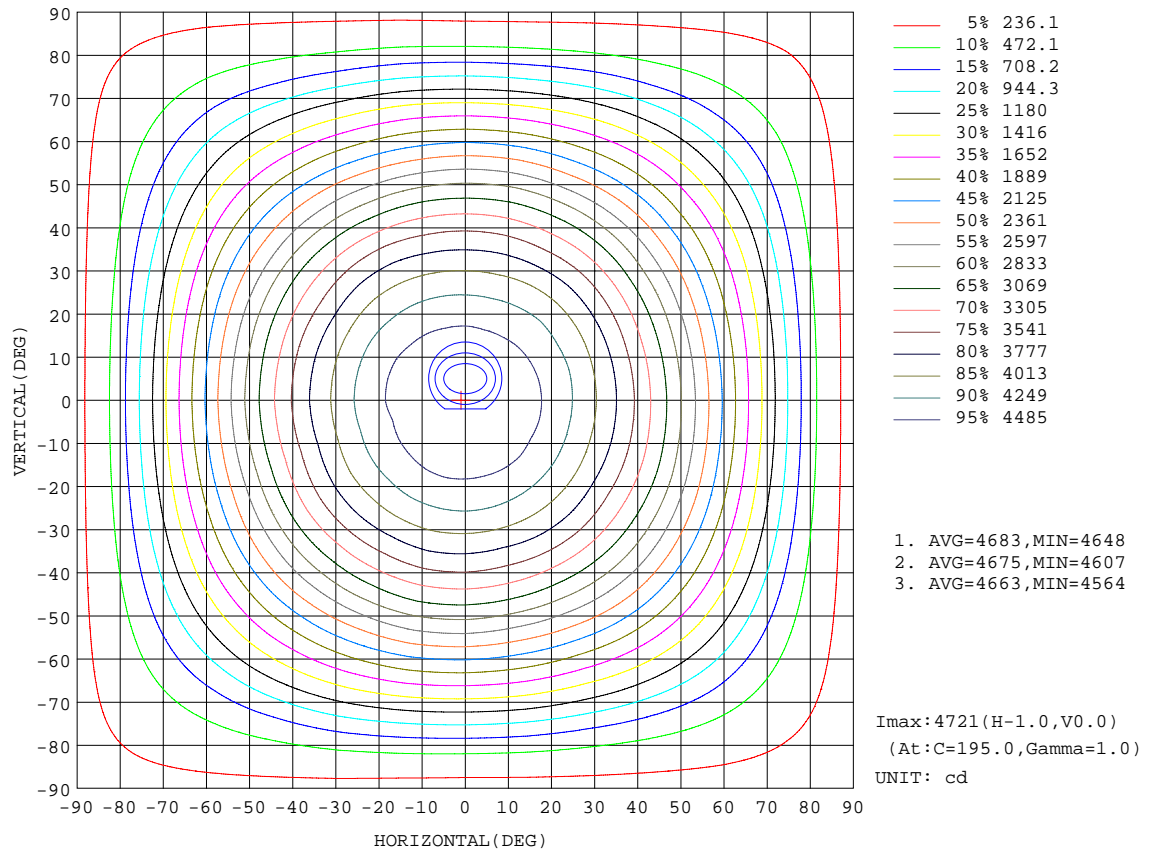
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 57 | 45 | 38 | 56 | 45 | 38 | 55 | 44 | 38 | 31 |
| 0.80 | 66 | 55 | 47 | 65 | 54 | 47 | 64 | 53 | 47 | 40 |
| 1.00 | 75 | 64 | 56 | 74 | 63 | 56 | 71 | 64 | 55 | 48 |
| 1.25 | 82 | 71 | 64 | 80 | 70 | 63 | 78 | 69 | 63 | 55 |
| 1.50 | 87 | 77 | 70 | 85 | 76 | 69 | 82 | 74 | 68 | 60 |
| 2.00 | 94 | 85 | 78 | 92 | 84 | 77 | 88 | 81 | 76 | 68 |
| 2.50 | 98 | 90 | 83 | 96 | 88 | 82 | 92 | 85 | 80 | 72 |
| 3.00 | 101 | 94 | 88 | 99 | 92 | 87 | 95 | 89 | 85 | 76 |
| 4.00 | 105 | 99 | 94 | 103 | 97 | 93 | 98 | 94 | 90 | 81 |
| 5.00 | 108 | 103 | 98 | 105 | 101 | 97 | 100 | 97 | 93 | 84 |
| 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: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |



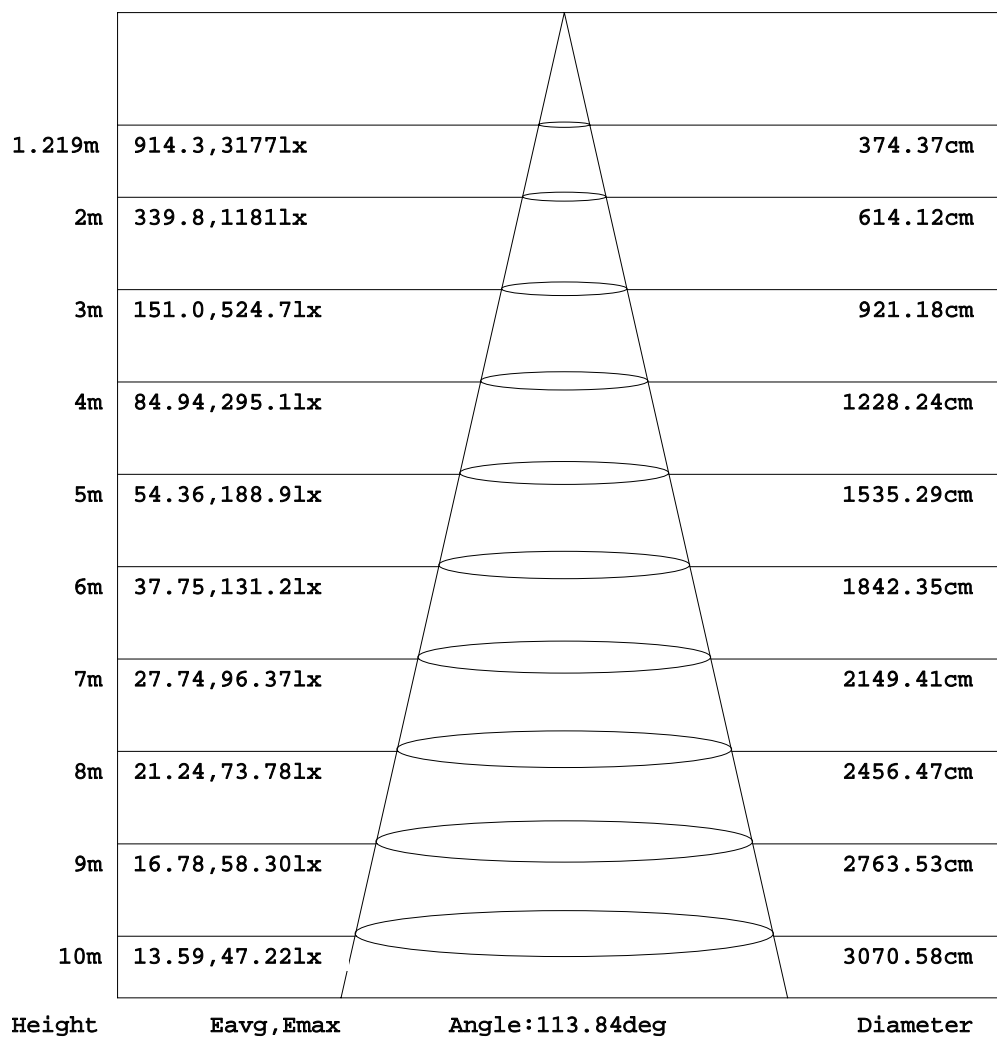
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

AAI Figure

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |

Flux out:10124 lm



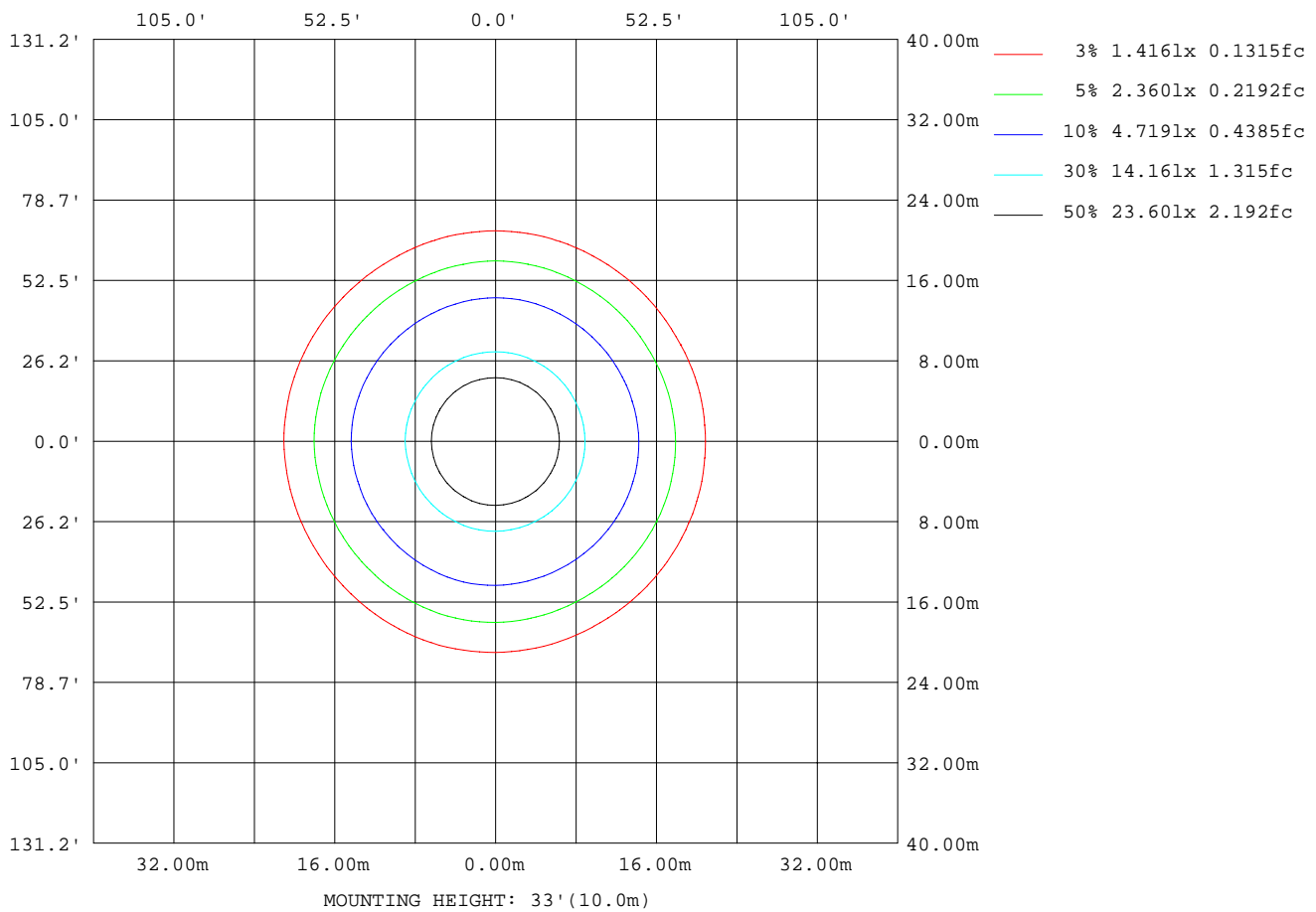
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

LED Avg.L Report

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |

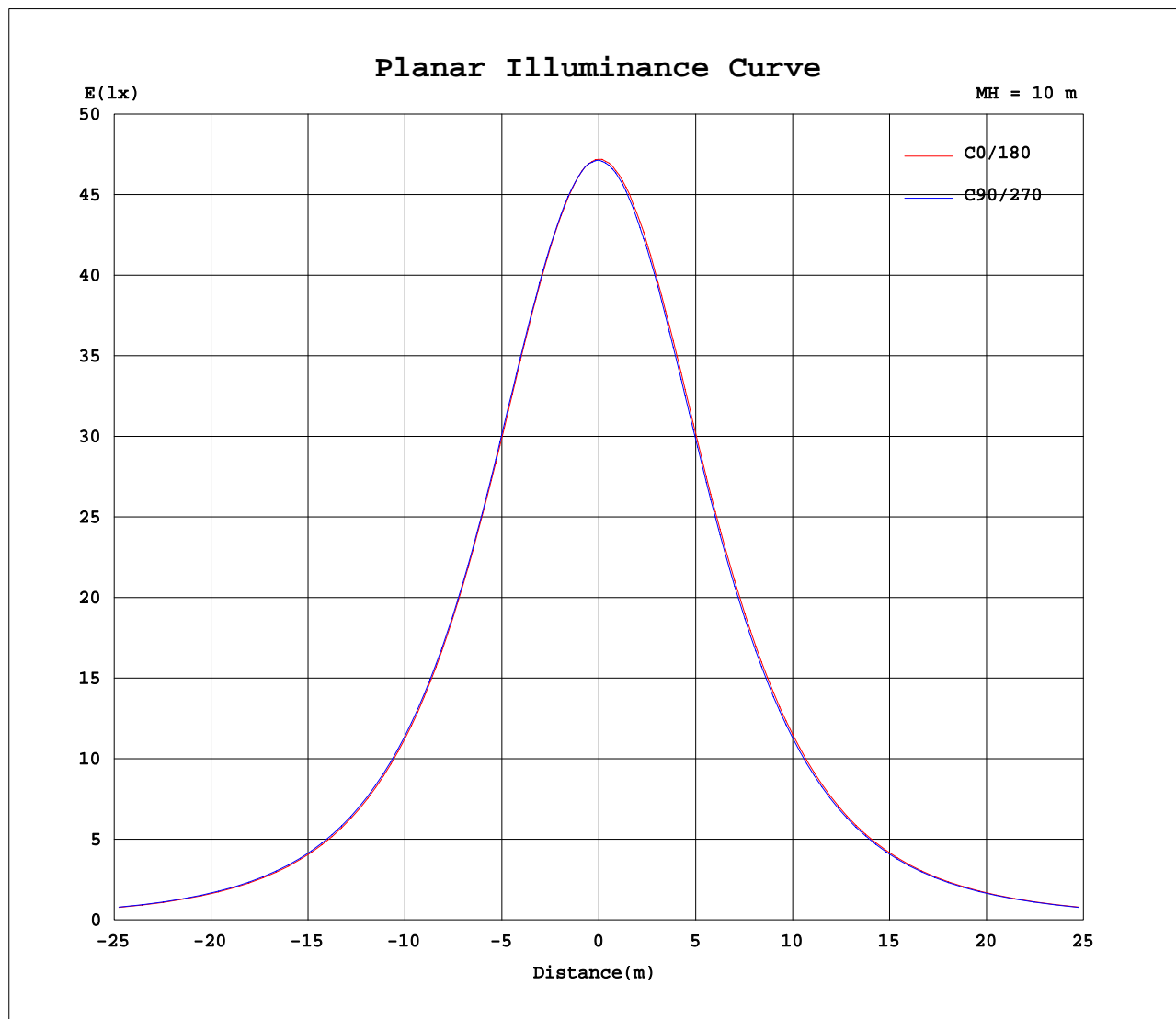
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 66694 |
| L_0~180(75)av | 60130 |
| L_0~180(85)av | 59640 |
| L_90~270(65)av | 66736 |
| L_90~270(75)av | 60441 |
| L_90~270(85)av | 59614 |
| L_45(65)av | 65430 |
| L_45(75)av | 58661 |
| L_45(85)av | 60247 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 45.1%
Test Distance: 2.500m [K=1.0441]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|-----------|--|--|--|--|------------------|--|--|--|--|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | | | | | | | | | | | | | | | | | | |
| NAME: High bay | | | | | | | | | | TYPE: LED | | | | | WEIGHT: | | | | |
| SPEC.: | | | | | | | | | | DIM.: | | | | | SERIAL No.: | | | | |
| MFR.: MESTER LED LTD | | | | | | | | | | SUR.: | | | | | Shielding Angle: | | | | |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 4719 | 4721 | 4719 | 4722 | 4719 | 4713 | 4714 | 4709 | 4712 | 4708 | 4710 | 4705 | 4719 | 4721 | 4719 | 4722 | 4719 | 4713 | 4714 |
| 5 | 4699 | 4695 | 4699 | 4707 | 4706 | 4691 | 4698 | 4705 | 4697 | 4695 | 4697 | 4693 | 4702 | 4703 | 4702 | 4698 | 4697 | 4687 | 4688 |
| 10 | 4632 | 4641 | 4642 | 4647 | 4648 | 4642 | 4645 | 4648 | 4650 | 4644 | 4652 | 4640 | 4652 | 4660 | 4649 | 4653 | 4650 | 4633 | 4626 |
| 15 | 4548 | 4546 | 4554 | 4565 | 4564 | 4558 | 4562 | 4562 | 4564 | 4554 | 4554 | 4545 | 4575 | 4571 | 4573 | 4569 | 4558 | 4539 | 4535 |
| 20 | 4418 | 4416 | 4420 | 4428 | 4429 | 4431 | 4441 | 4443 | 4438 | 4426 | 4426 | 4417 | 4445 | 4448 | 4444 | 4425 | 4412 | 4406 | 4398 |
| 25 | 4242 | 4238 | 4247 | 4252 | 4259 | 4268 | 4278 | 4277 | 4276 | 4262 | 4268 | 4259 | 4282 | 4274 | 4276 | 4258 | 4251 | 4238 | 4227 |
| 30 | 4032 | 4024 | 4031 | 4039 | 4044 | 4050 | 4060 | 4063 | 4061 | 4058 | 4060 | 4047 | 4066 | 4068 | 4065 | 4062 | 4047 | 4027 | 4013 |
| 35 | 3781 | 3777 | 3767 | 3787 | 3793 | 3786 | 3809 | 3823 | 3807 | 3811 | 3815 | 3803 | 3832 | 3828 | 3810 | 3816 | 3808 | 3779 | 3769 |
| 40 | 3494 | 3495 | 3485 | 3497 | 3501 | 3504 | 3535 | 3541 | 3517 | 3521 | 3531 | 3519 | 3561 | 3552 | 3524 | 3529 | 3522 | 3498 | 3497 |
| 45 | 3180 | 3185 | 3175 | 3170 | 3177 | 3200 | 3228 | 3237 | 3209 | 3195 | 3209 | 3211 | 3257 | 3241 | 3217 | 3193 | 3182 | 3184 | 3194 |
| 50 | 2842 | 2852 | 2837 | 2833 | 2831 | 2856 | 2895 | 2907 | 2870 | 2848 | 2854 | 2863 | 2913 | 2898 | 2866 | 2838 | 2828 | 2845 | 2855 |
| 55 | 2474 | 2486 | 2476 | 2470 | 2466 | 2488 | 2529 | 2537 | 2503 | 2483 | 2487 | 2497 | 2542 | 2527 | 2488 | 2464 | 2454 | 2473 | 2492 |
| 60 | 2093 | 2099 | 2090 | 2085 | 2081 | 2107 | 2141 | 2151 | 2123 | 2099 | 2099 | 2114 | 2151 | 2137 | 2102 | 2072 | 2066 | 2089 | 2107 |
| 65 | 1707 | 1711 | 1704 | 1701 | 1698 | 1727 | 1745 | 1759 | 1742 | 1723 | 1718 | 1734 | 1762 | 1754 | 1731 | 1703 | 1697 | 1720 | 1727 |
| 70 | 1324 | 1325 | 1327 | 1317 | 1317 | 1347 | 1360 | 1370 | 1369 | 1348 | 1342 | 1353 | 1370 | 1361 | 1354 | 1330 | 1324 | 1346 | 1342 |
| 75 | 926 | 928 | 931 | 920 | 925 | 952 | 966 | 977 | 979 | 957 | 950 | 969 | 990 | 978 | 971 | 947 | 942 | 961 | 960 |
| 80 | 565 | 568 | 567 | 561 | 564 | 588 | 596 | 610 | 611 | 594 | 595 | 616 | 626 | 621 | 615 | 589 | 584 | 603 | 599 |
| 85 | 300 | 299 | 308 | 307 | 310 | 317 | 316 | 324 | 338 | 337 | 338 | 342 | 340 | 337 | 342 | 334 | 331 | 334 | 323 |
| 90 | 174 | 173 | 174 | 175 | 177 | 177 | 178 | 180 | 186 | 188 | 189 | 190 | 190 | 187 | 190 | 188 | 188 | 190 | 186 |
| 95 | 120 | 120 | 119 | 119 | 121 | 121 | 123 | 125 | 128 | 129 | 130 | 130 | 132 | 130 | 130 | 130 | 130 | 131 | 130 |
| 100 | 81.7 | 81.5 | 80.8 | 79.6 | 81.3 | 82.7 | 83.6 | 85.7 | 87.8 | 88.5 | 89.1 | 89.6 | 89.9 | 89.4 | 89.5 | 88.4 | 88.5 | 89.9 | 88.9 |
| 105 | 53.2 | 52.7 | 52.5 | 51.5 | 52.4 | 53.8 | 54.5 | 55.9 | 57.5 | 57.7 | 58.0 | 58.9 | 59.6 | 59.2 | 59.5 | 58.3 | 58.3 | 59.4 | 58.5 |
| 110 | 33.9 | 33.6 | 33.2 | 32.9 | 33.4 | 34.2 | 35.2 | 35.9 | 36.5 | 36.9 | 37.1 | 37.4 | 38.4 | 38.0 | 37.9 | 37.5 | 37.6 | 37.8 | 37.8 |
| 115 | 20.7 | 20.4 | 20.5 | 20.3 | 20.7 | 21.4 | 21.8 | 22.2 | 22.8 | 22.9 | 23.1 | 23.4 | 24.1 | 23.8 | 23.8 | 23.4 | 23.4 | 23.8 | 23.7 |
| 120 | 11.8 | 11.6 | 12.0 | 11.8 | 12.1 | 12.7 | 12.6 | 12.9 | 13.6 | 13.5 | 13.7 | 14.0 | 14.3 | 14.1 | 14.3 | 13.9 | 14.0 | 14.4 | 14.0 |
| 125 | 6.20 | 6.16 | 6.55 | 6.52 | 6.62 | 6.94 | 6.73 | 6.96 | 7.56 | 7.58 | 7.66 | 7.82 | 8.43 | 8.17 | 8.37 | 8.22 | 8.24 | 8.45 | 8.13 |
| 130 | 3.38 | 3.37 | 3.35 | 3.56 | 3.57 | 3.40 | 3.61 | 3.70 | 3.75 | 4.10 | 4.15 | 3.86 | 5.24 | 5.11 | 4.91 | 5.13 | 5.14 | 4.93 | 5.15 |
| 135 | 2.96 | 2.95 | 2.94 | 2.93 | 2.92 | 2.91 | 2.91 | 2.90 | 2.91 | 2.90 | 2.91 | 2.92 | 4.37 | 4.37 | 4.38 | 4.38 | 4.40 | 4.42 | 4.41 |
| 140 | 3.29 | 3.29 | 3.27 | 3.26 | 3.26 | 3.24 | 3.25 | 3.24 | 3.24 | 3.23 | 3.23 | 3.23 | 4.88 | 4.88 | 4.89 | 4.90 | 4.91 | 4.92 | 4.92 |
| 145 | 3.64 | 3.64 | 3.63 | 3.62 | 3.62 | 3.60 | 3.60 | 3.59 | 3.59 | 3.58 | 3.59 | 3.59 | 5.49 | 5.48 | 5.49 | 5.50 | 5.52 | 5.52 | 5.52 |
| 150 | 4.01 | 4.00 | 3.99 | 3.98 | 3.97 | 3.96 | 3.96 | 3.96 | 3.96 | 3.95 | 3.95 | 3.95 | 6.11 | 6.10 | 6.11 | 6.12 | 6.14 | 6.14 | 6.13 |
| 155 | 4.44 | 4.44 | 4.42 | 4.42 | 4.42 | 4.40 | 4.41 | 4.40 | 4.40 | 4.39 | 4.38 | 4.39 | 6.73 | 6.73 | 6.73 | 6.74 | 6.75 | 6.75 | 6.73 |
| 160 | 4.82 | 4.82 | 4.82 | 4.81 | 4.82 | 4.84 | 4.81 | 4.79 | 4.78 | 4.78 | 4.78 | 4.79 | 7.26 | 7.25 | 7.26 | 7.26 | 7.26 | 7.25 | 7.25 |
| 165 | 5.17 | 5.18 | 5.17 | 5.18 | 5.20 | 5.20 | 5.19 | 5.16 | 5.13 | 5.13 | 5.15 | 5.16 | 7.47 | 7.47 | 7.47 | 7.46 | 7.45 | 7.44 | 7.44 |
| 170 | 5.51 | 5.50 | 5.51 | 5.52 | 5.53 | 5.52 | 5.52 | 5.50 | 5.47 | 5.46 | 5.47 | 5.50 | 7.42 | 7.41 | 7.41 | 7.40 | 7.40 | 7.39 | 7.39 |
| 175 | 6.11 | 6.09 | 6.09 | 6.10 | 6.09 | 6.08 | 6.09 | 6.09 | 6.08 | 6.05 | 6.06 | 6.07 | 7.18 | 7.17 | 7.18 | 7.17 | 7.16 | 7.16 | 7.16 |
| 180 | 6.77 | 6.75 | 6.78 | 6.75 | 6.75 | 6.74 | 6.75 | 6.74 | 6.74 | 6.73 | 6.75 | 6.73 | 6.76 | 6.76 | 6.76 | 6.76 | 6.75 | 6.74 | 6.73 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------|------------------|
| Test:U:120.00V I:0.7918A P:94.690W PF:0.9966 Freq:60.00Hz Lamp Flux:14071.3x1 lm | | |
| NAME: High bay | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: MESTER LED LTD | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 4709 | 4712 | 4708 | 4710 | 4705 | | | | | | | | | | | | | |
| 5 | 4684 | 4687 | 4679 | 4681 | 4680 | | | | | | | | | | | | | |
| 10 | 4628 | 4627 | 4623 | 4629 | 4623 | | | | | | | | | | | | | |
| 15 | 4531 | 4535 | 4536 | 4543 | 4545 | | | | | | | | | | | | | |
| 20 | 4396 | 4404 | 4413 | 4411 | 4421 | | | | | | | | | | | | | |
| 25 | 4226 | 4237 | 4252 | 4241 | 4250 | | | | | | | | | | | | | |
| 30 | 4012 | 4029 | 4041 | 4036 | 4032 | | | | | | | | | | | | | |
| 35 | 3770 | 3769 | 3782 | 3776 | 3777 | | | | | | | | | | | | | |
| 40 | 3493 | 3473 | 3480 | 3477 | 3479 | | | | | | | | | | | | | |
| 45 | 3186 | 3165 | 3151 | 3142 | 3156 | | | | | | | | | | | | | |
| 50 | 2853 | 2819 | 2801 | 2790 | 2811 | | | | | | | | | | | | | |
| 55 | 2487 | 2444 | 2427 | 2419 | 2442 | | | | | | | | | | | | | |
| 60 | 2093 | 2058 | 2046 | 2034 | 2064 | | | | | | | | | | | | | |
| 65 | 1713 | 1694 | 1681 | 1672 | 1703 | | | | | | | | | | | | | |
| 70 | 1331 | 1319 | 1302 | 1301 | 1328 | | | | | | | | | | | | | |
| 75 | 943 | 932 | 913 | 913 | 935 | | | | | | | | | | | | | |
| 80 | 590 | 580 | 560 | 561 | 574 | | | | | | | | | | | | | |
| 85 | 319 | 321 | 315 | 314 | 313 | | | | | | | | | | | | | |
| 90 | 185 | 183 | 182 | 181 | 179 | | | | | | | | | | | | | |
| 95 | 130 | 126 | 125 | 125 | 123 | | | | | | | | | | | | | |
| 100 | 88.5 | 86.9 | 85.3 | 84.8 | 84.8 | | | | | | | | | | | | | |
| 105 | 58.4 | 57.8 | 56.5 | 56.1 | 56.1 | | | | | | | | | | | | | |
| 110 | 37.6 | 37.2 | 36.4 | 36.2 | 35.9 | | | | | | | | | | | | | |
| 115 | 23.7 | 23.6 | 23.0 | 22.7 | 22.6 | | | | | | | | | | | | | |
| 120 | 14.1 | 14.3 | 13.8 | 13.7 | 13.5 | | | | | | | | | | | | | |
| 125 | 8.19 | 8.51 | 8.26 | 8.09 | 7.87 | | | | | | | | | | | | | |
| 130 | 5.18 | 5.06 | 5.20 | 5.01 | 4.67 | | | | | | | | | | | | | |
| 135 | 4.44 | 4.46 | 4.42 | 4.42 | 4.42 | | | | | | | | | | | | | |
| 140 | 4.92 | 4.93 | 4.93 | 4.93 | 4.93 | | | | | | | | | | | | | |
| 145 | 5.52 | 5.52 | 5.53 | 5.53 | 5.53 | | | | | | | | | | | | | |
| 150 | 6.13 | 6.13 | 6.14 | 6.14 | 6.14 | | | | | | | | | | | | | |
| 155 | 6.74 | 6.74 | 6.75 | 6.75 | 6.76 | | | | | | | | | | | | | |
| 160 | 7.25 | 7.25 | 7.27 | 7.26 | 7.27 | | | | | | | | | | | | | |
| 165 | 7.45 | 7.45 | 7.46 | 7.46 | 7.46 | | | | | | | | | | | | | |
| 170 | 7.40 | 7.40 | 7.40 | 7.39 | 7.39 | | | | | | | | | | | | | |
| 175 | 7.16 | 7.15 | 7.16 | 7.15 | 7.15 | | | | | | | | | | | | | |
| 180 | 6.74 | 6.73 | 6.73 | 6.73 | 6.74 | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 45.1%
 Test Distance: 2.500m [K=1.0441]
 Remarks: