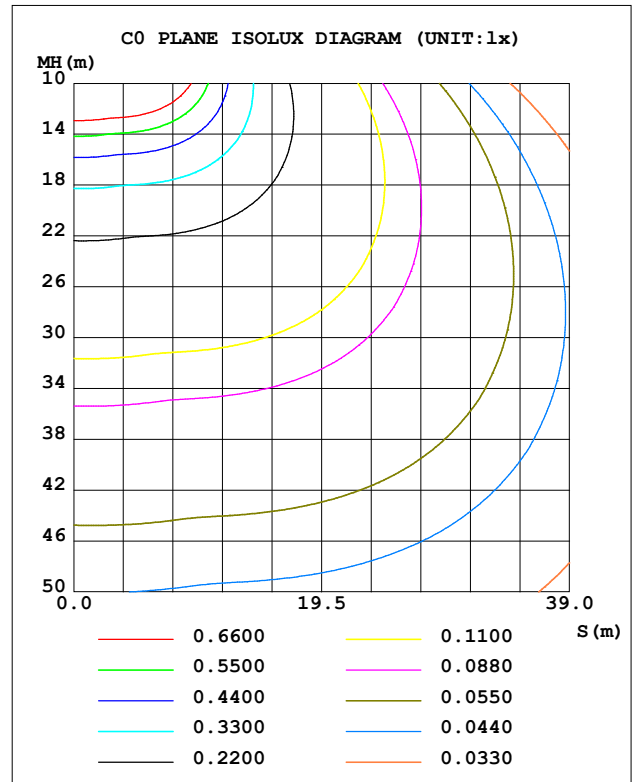
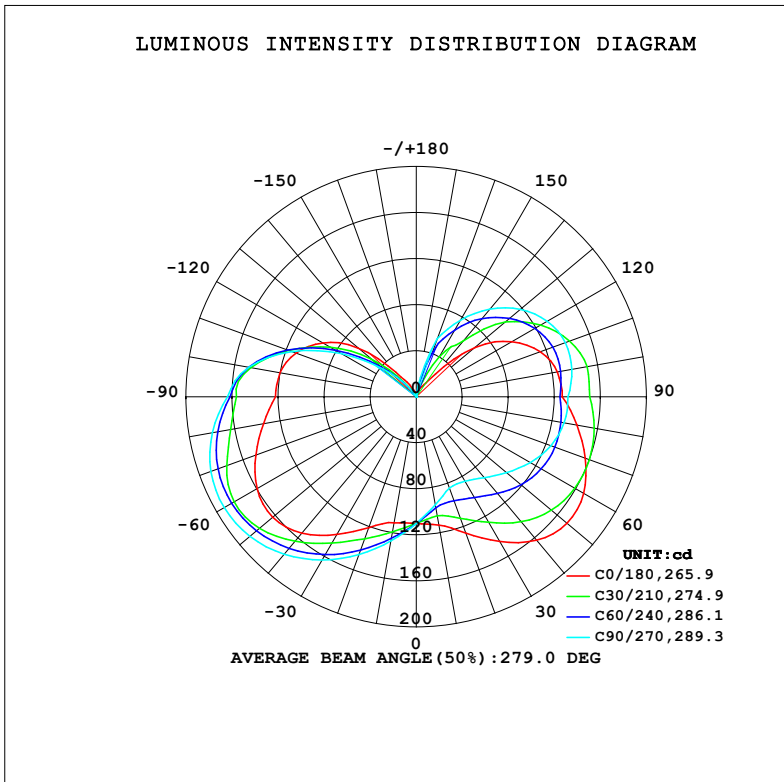


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|-----------------|------------------|---------|--------------------------|------------|
| MODEL | 95MALIA24LED/WH | Imax (cd) | 196.1 | S/MH (C0/180) | 2.05 |
| NOMINAL POWER (W) | 24 | LOR (%) | 114.4 | S/MH (C90/270) | 2.25 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 1510.5 | η UP, DN (C0-180) | 24.3, 31.1 |
| NOMINAL FLUX (lm) | 1320 | CIE CLASS | SEMI-D. | η UP, DN (C180-360) | 18.8, 40.2 |
| LAMPS INSIDE | 1 | η up (%) | 43.1 | CIBSE SHR NOM | 2.00 |
| TEST VOLTAGE (V) | 230 | η down (%) | 71.3 | CIBSE SHR MAX | 2.00 |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 03 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 113.2 | 101.2 | 95.40 | 99.80 | 111.1 | 122.3 | 127.2 | 123.8 | 0- 10 | 10.58 | 10.58 | 0.70,0.80 |
| 20 | 126.0 | 104.3 | 84.48 | 100.4 | 120.9 | 137.2 | 145.9 | 140.1 | 10- 20 | 32.79 | 43.38 | 2.87,3.29 |
| 30 | 145.1 | 113.6 | 84.84 | 108.5 | 138.2 | 152.1 | 163.8 | 156.0 | 20- 30 | 58.59 | 102.0 | 6.75,7.72 |
| 40 | 162.7 | 126.4 | 91.77 | 120.7 | 154.8 | 165.7 | 178.5 | 170.5 | 30- 40 | 87.95 | 189.9 | 12.6,14.4 |
| 50 | 170.9 | 138.4 | 102.6 | 132.8 | 162.8 | 176.9 | 188.7 | 182.3 | 40- 50 | 117.9 | 307.8 | 20.4,23.3 |
| 60 | 167.9 | 146.8 | 114.5 | 141.4 | 159.7 | 184.2 | 192.6 | 189.9 | 50- 60 | 143.3 | 451.2 | 29.9,34.2 |
| 70 | 156.2 | 150.5 | 124.5 | 145.6 | 148.3 | 186.8 | 189.8 | 192.0 | 60- 70 | 159.9 | 611.1 | 40.5,46.3 |
| 80 | 141.6 | 149.7 | 130.5 | 145.5 | 134.7 | 181.6 | 179.7 | 186.1 | 70- 80 | 166.3 | 777.3 | 51.5,58.9 |
| 90 | 126.8 | 144.6 | 131.9 | 141.1 | 122.3 | 170.8 | 164.1 | 174.5 | 80- 90 | 164.0 | 941.3 | 62.3,71.3 |
| 100 | 124.6 | 143.9 | 137.1 | 141.2 | 120.2 | 158.0 | 147.9 | 160.7 | 90-100 | 157.4 | 1099 | 72.7,83.2 |
| 110 | 114.7 | 137.0 | 137.9 | 134.9 | 111.2 | 124.1 | 115.0 | 126.0 | 100-110 | 141.2 | 1240 | 82.1,93.9 |
| 120 | 95.63 | 122.3 | 131.4 | 121.0 | 93.73 | 84.17 | 75.10 | 85.02 | 110-120 | 112.6 | 1353 | 89.5,102 |
| 130 | 66.81 | 102.2 | 118.3 | 101.2 | 66.02 | 47.52 | 37.79 | 46.72 | 120-130 | 78.68 | 1431 | 94.8,108 |
| 140 | 25.93 | 80.14 | 99.53 | 79.88 | 28.02 | 11.89 | 13.69 | 10.41 | 130-140 | 45.45 | 1477 | 97.8,112 |
| 150 | 10.65 | 56.82 | 76.82 | 58.58 | 12.19 | 1.881 | 2.383 | 1.631 | 140-150 | 21.66 | 1498 | 99.2,114 |
| 160 | 3.643 | 21.78 | 53.52 | 23.96 | 5.038 | 2.032 | 1.205 | 1.493 | 150-160 | 9.716 | 1508 | 99.8,114 |
| 170 | 3.878 | 2.251 | 8.865 | 2.135 | 4.023 | 1.310 | 1.269 | 1.325 | 160-170 | 2.382 | 1510 | 100,114 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0.0650 | 1510 | 100,114 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 245.29 lm

%lum = 16.2%

%lamp = 18.6%

Conical surface Flux(130deg): 529.68 lm

%lum = 35.1%

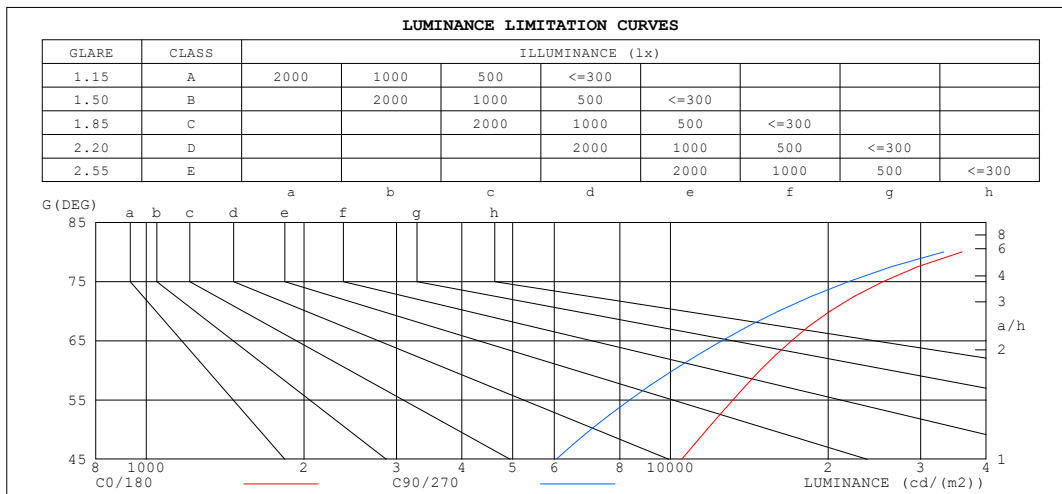
%lamp = 40.1%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:03 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 68100 | 66761 |
| 80 | 35995 | 33187 |
| 75 | 25407 | 21846 |
| 70 | 20158 | 16069 |
| 65 | 16996 | 12525 |
| 60 | 14824 | 10109 |
| 55 | 13141 | 8352 |
| 50 | 11739 | 7048 |
| 45 | 10501 | 6053 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 03 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

```

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

```

WEC AND CCEC

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | 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 | .498 | .283 | .090 | .476 | .272 | .086 | .436 | .250 | .080 | .399 | .230 | .074 | .365 | .212 | .068 | |
| 2.0 | .414 | .227 | .070 | .394 | .217 | .067 | .357 | .199 | .062 | .323 | .181 | .057 | .292 | .165 | .052 | |
| 3.0 | .359 | .191 | .057 | .341 | .183 | .055 | .308 | .167 | .051 | .277 | .152 | .047 | .248 | .137 | .043 | |
| 4.0 | .319 | .166 | .049 | .302 | .158 | .047 | .272 | .144 | .043 | .243 | .131 | .039 | .217 | .118 | .036 | |
| 5.0 | .287 | .146 | .042 | .272 | .139 | .041 | .244 | .127 | .037 | .217 | .115 | .034 | .193 | .103 | .031 | |
| 6.0 | .260 | .131 | .037 | .247 | .125 | .036 | .221 | .113 | .033 | .197 | .102 | .030 | .174 | .092 | .027 | |
| 7.0 | .239 | .118 | .033 | .226 | .113 | .032 | .202 | .102 | .029 | .180 | .092 | .027 | .159 | .083 | .024 | |
| 8.0 | .220 | .108 | .030 | .209 | .103 | .029 | .187 | .093 | .027 | .166 | .084 | .024 | .146 | .075 | .022 | |
| 9.0 | .204 | .099 | .028 | .194 | .094 | .026 | .173 | .086 | .024 | .154 | .077 | .022 | .136 | .069 | .020 | |
| 10.0 | .191 | .091 | .025 | .181 | .087 | .024 | .162 | .079 | .022 | .143 | .071 | .020 | .126 | .064 | .018 | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| pw | 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 | .546 | .546 | .546 | .467 | .467 | .467 | .319 | .319 | .319 | .183 | .183 | .183 | .059 | .059 | .059 | |
| 1.0 | .547 | .509 | .474 | .468 | .437 | .408 | .320 | .300 | .282 | .184 | .174 | .164 | .059 | .056 | .053 | |
| 2.0 | .541 | .484 | .436 | .464 | .417 | .377 | .318 | .288 | .263 | .183 | .168 | .154 | .059 | .054 | .050 | |
| 3.0 | .533 | .466 | .413 | .457 | .402 | .358 | .314 | .279 | .251 | .181 | .163 | .148 | .058 | .053 | .049 | |
| 4.0 | .524 | .453 | .398 | .450 | .391 | .346 | .309 | .273 | .244 | .179 | .160 | .144 | .058 | .052 | .047 | |
| 5.0 | .516 | .442 | .388 | .443 | .383 | .338 | .305 | .267 | .239 | .177 | .157 | .142 | .057 | .051 | .047 | |
| 6.0 | .507 | .434 | .381 | .436 | .376 | .332 | .301 | .263 | .235 | .174 | .155 | .140 | .056 | .051 | .046 | |
| 7.0 | .499 | .427 | .376 | .429 | .370 | .328 | .297 | .259 | .232 | .172 | .153 | .138 | .056 | .050 | .046 | |
| 8.0 | .491 | .421 | .372 | .423 | .365 | .325 | .293 | .256 | .230 | .170 | .151 | .137 | .055 | .050 | .045 | |
| 9.0 | .484 | .415 | .369 | .417 | .361 | .322 | .289 | .253 | .229 | .168 | .150 | .136 | .054 | .049 | .045 | |
| 10.0 | .477 | .411 | .367 | .411 | .357 | .320 | .285 | .251 | .227 | .166 | .148 | .136 | .054 | .049 | .045 | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:03 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | | | | |
|---|---------------|------------------|------|------|-----------------------|---------------|----------------|------|------|------------------|--|--|--|--|
| NAME: 95MALIA24LED/WH | | | | | TYPE: | | | | | WEIGHT: 1 | | | | |
| SPEC.: | | | | | DIM.: 270 x 120 x 110 | | | | | SERIAL No.: 0 | | | | |
| MFR.: Elmark Industries JSC | | | | | SUR.: 4 circler | | | | | 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 | 18.5 | 19.8 | 19.3 | 20.5 | 21.5 | 16.4 | 17.6 | 17.1 | 18.4 | 19.3 | | | | |
| 3H | 21.6 | 22.7 | 22.4 | 23.5 | 24.5 | 19.7 | 20.9 | 20.5 | 21.6 | 22.6 | | | | |
| 4H | 23.3 | 24.3 | 24.0 | 25.2 | 26.2 | 21.7 | 22.7 | 22.5 | 23.6 | 24.6 | | | | |
| 6H | 25.1 | 26.1 | 25.9 | 26.9 | 27.9 | 23.9 | 24.9 | 24.7 | 25.7 | 26.7 | | | | |
| 8H | 26.1 | 27.0 | 26.9 | 27.9 | 28.9 | 25.1 | 26.0 | 25.9 | 26.9 | 27.9 | | | | |
| 12H | 27.2 | 28.2 | 28.0 | 29.0 | 30.0 | 26.4 | 27.4 | 27.3 | 28.2 | 29.3 | | | | |
| 4H 2H | 19.3 | 20.4 | 20.1 | 21.2 | 22.2 | 17.9 | 19.0 | 18.7 | 19.8 | 20.8 | | | | |
| 3H | 22.7 | 23.6 | 23.5 | 24.5 | 25.5 | 21.2 | 22.1 | 22.0 | 23.0 | 24.0 | | | | |
| 4H | 24.5 | 25.4 | 25.4 | 26.3 | 27.3 | 23.1 | 24.0 | 23.9 | 24.8 | 25.9 | | | | |
| 6H | 26.5 | 27.3 | 27.4 | 28.2 | 29.3 | 25.3 | 26.1 | 26.2 | 27.0 | 28.1 | | | | |
| 8H | 27.6 | 28.3 | 28.5 | 29.2 | 30.3 | 26.6 | 27.3 | 27.5 | 28.2 | 29.3 | | | | |
| 12H | 28.8 | 29.5 | 29.7 | 30.4 | 31.6 | 28.1 | 28.7 | 28.9 | 29.6 | 30.8 | | | | |
| 8H 4H | 25.2 | 25.9 | 26.1 | 26.8 | 27.9 | 24.1 | 24.8 | 25.0 | 25.7 | 26.9 | | | | |
| 6H | 27.5 | 28.2 | 28.4 | 29.1 | 30.2 | 26.5 | 27.1 | 27.4 | 28.0 | 29.2 | | | | |
| 8H | 28.9 | 29.4 | 29.8 | 30.3 | 31.5 | 27.9 | 28.4 | 28.8 | 29.4 | 30.5 | | | | |
| 12H | 30.3 | 30.8 | 31.2 | 31.7 | 32.9 | 29.5 | 30.0 | 30.4 | 30.9 | 32.1 | | | | |
| 12H 4H | 25.3 | 26.0 | 26.2 | 26.9 | 28.0 | 24.4 | 25.1 | 25.3 | 26.0 | 27.1 | | | | |
| 6H | 27.8 | 28.4 | 28.7 | 29.3 | 30.5 | 26.9 | 27.5 | 27.8 | 28.4 | 29.6 | | | | |
| 8H | 29.3 | 29.8 | 30.2 | 30.7 | 31.9 | 28.4 | 28.9 | 29.3 | 29.8 | 31.0 | | | | |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | | | | | |
| 1.5H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | | | | | |
| 2.0H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.4 | | | | | | | | |

CIE Pub.117, 1320 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
Area: 0.0226865 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:03 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |

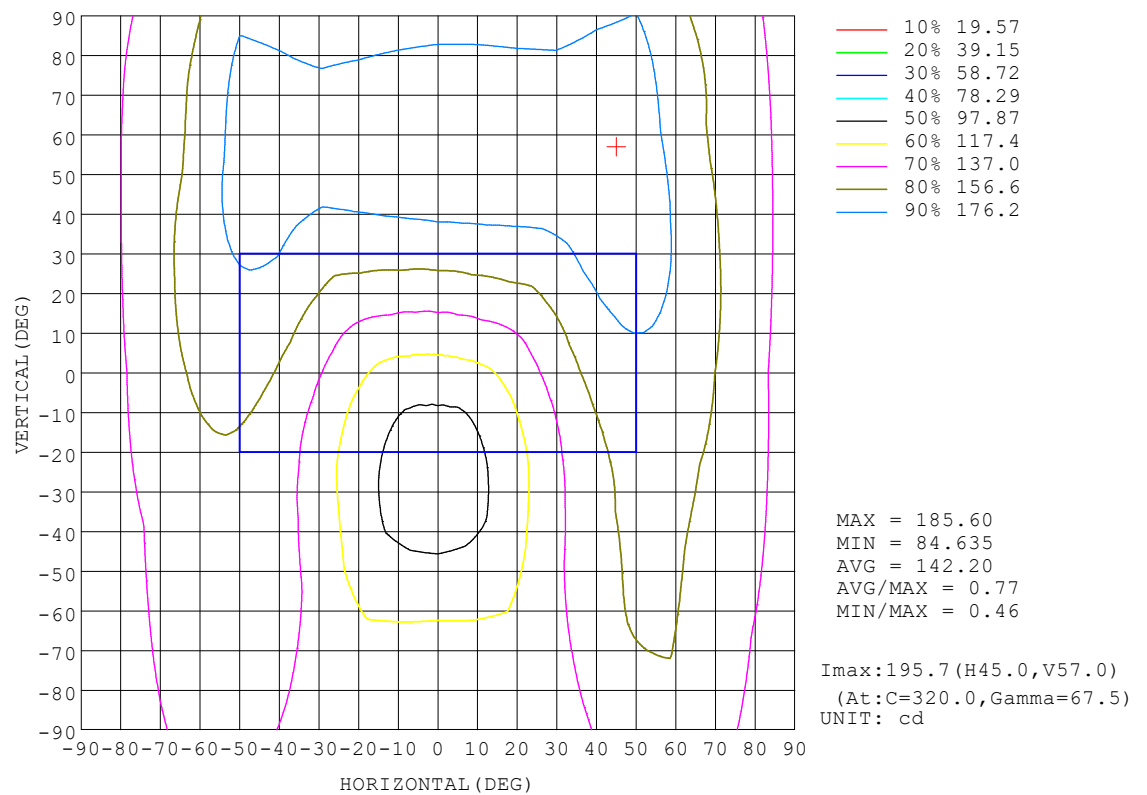
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 43 | 28 | 19 | 41 | 27 | 19 | 38 | 26 | 18 | 10 |
| 0.80 | 53 | 37 | 27 | 50 | 35 | 26 | 46 | 33 | 24 | 14 |
| 1.00 | 61 | 45 | 34 | 58 | 43 | 33 | 52 | 42 | 31 | 19 |
| 1.25 | 69 | 52 | 41 | 65 | 50 | 40 | 58 | 46 | 37 | 23 |
| 1.50 | 75 | 59 | 47 | 71 | 56 | 46 | 63 | 51 | 42 | 26 |
| 2.00 | 84 | 69 | 58 | 79 | 65 | 55 | 70 | 59 | 50 | 32 |
| 2.50 | 90 | 76 | 65 | 84 | 72 | 62 | 74 | 64 | 56 | 36 |
| 3.00 | 95 | 82 | 71 | 89 | 77 | 68 | 78 | 69 | 61 | 40 |
| 4.00 | 101 | 90 | 80 | 94 | 85 | 76 | 83 | 75 | 68 | 45 |
| 5.00 | 105 | 95 | 87 | 98 | 89 | 82 | 86 | 79 | 73 | 48 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:03 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |

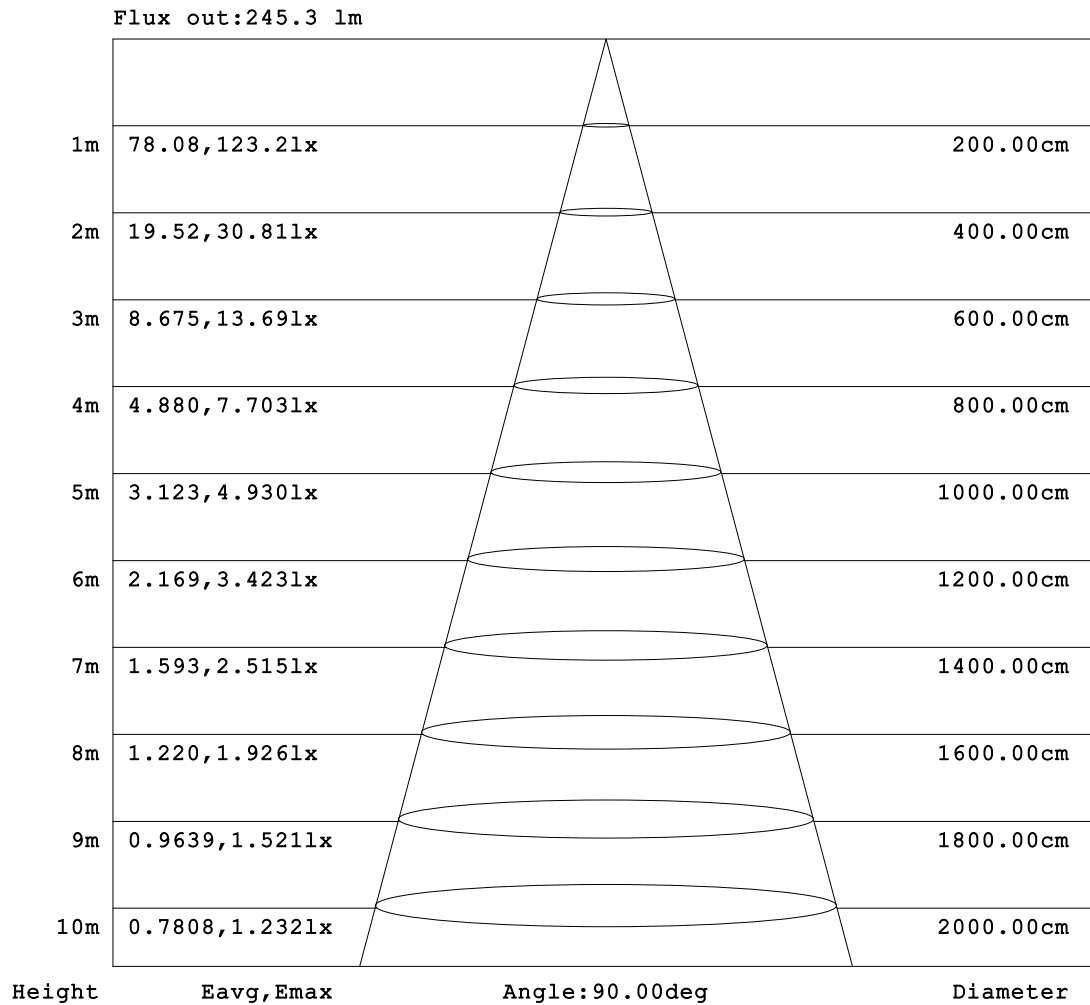


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 03 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

AAI Figure

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |



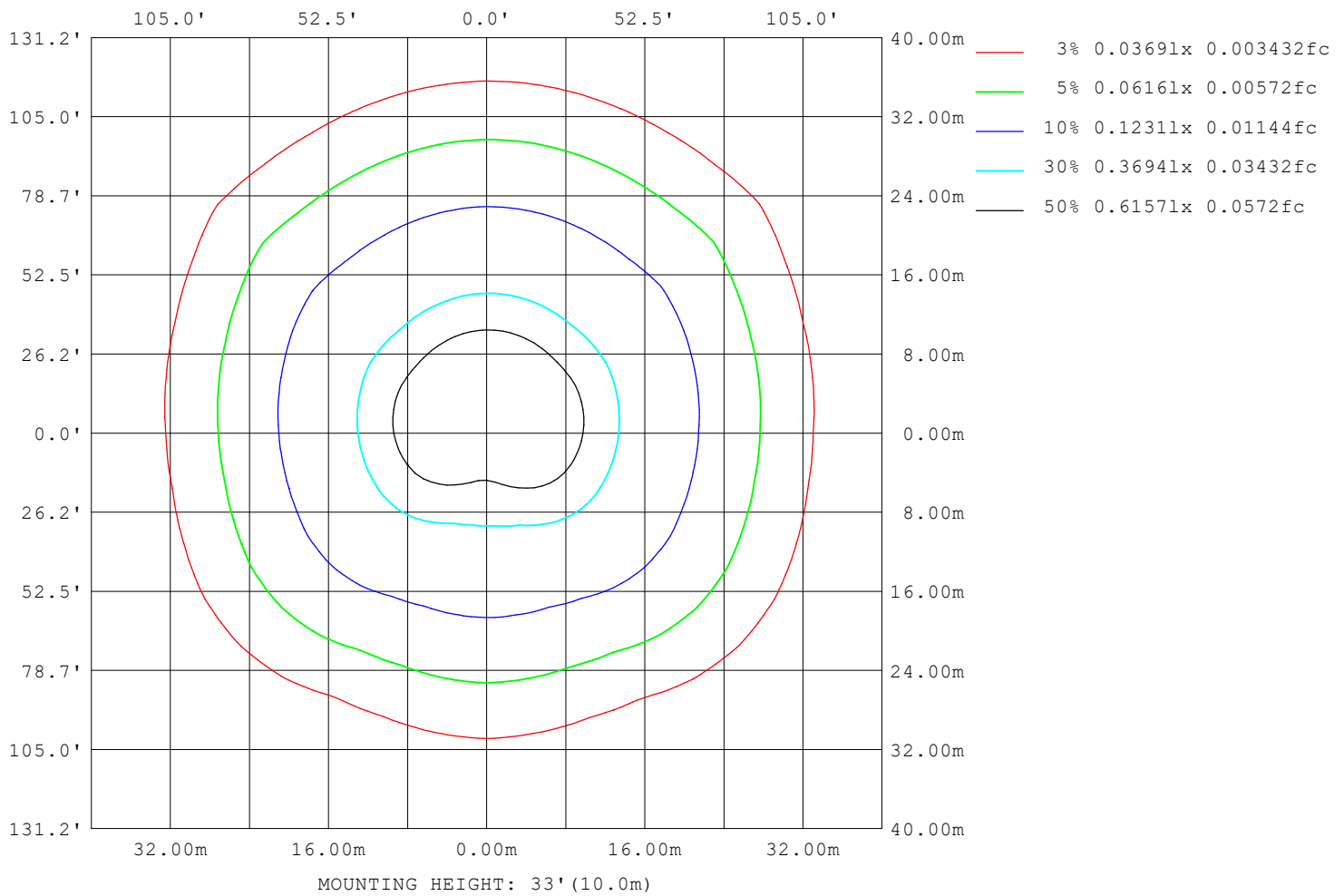
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:03 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.340m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 03 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |

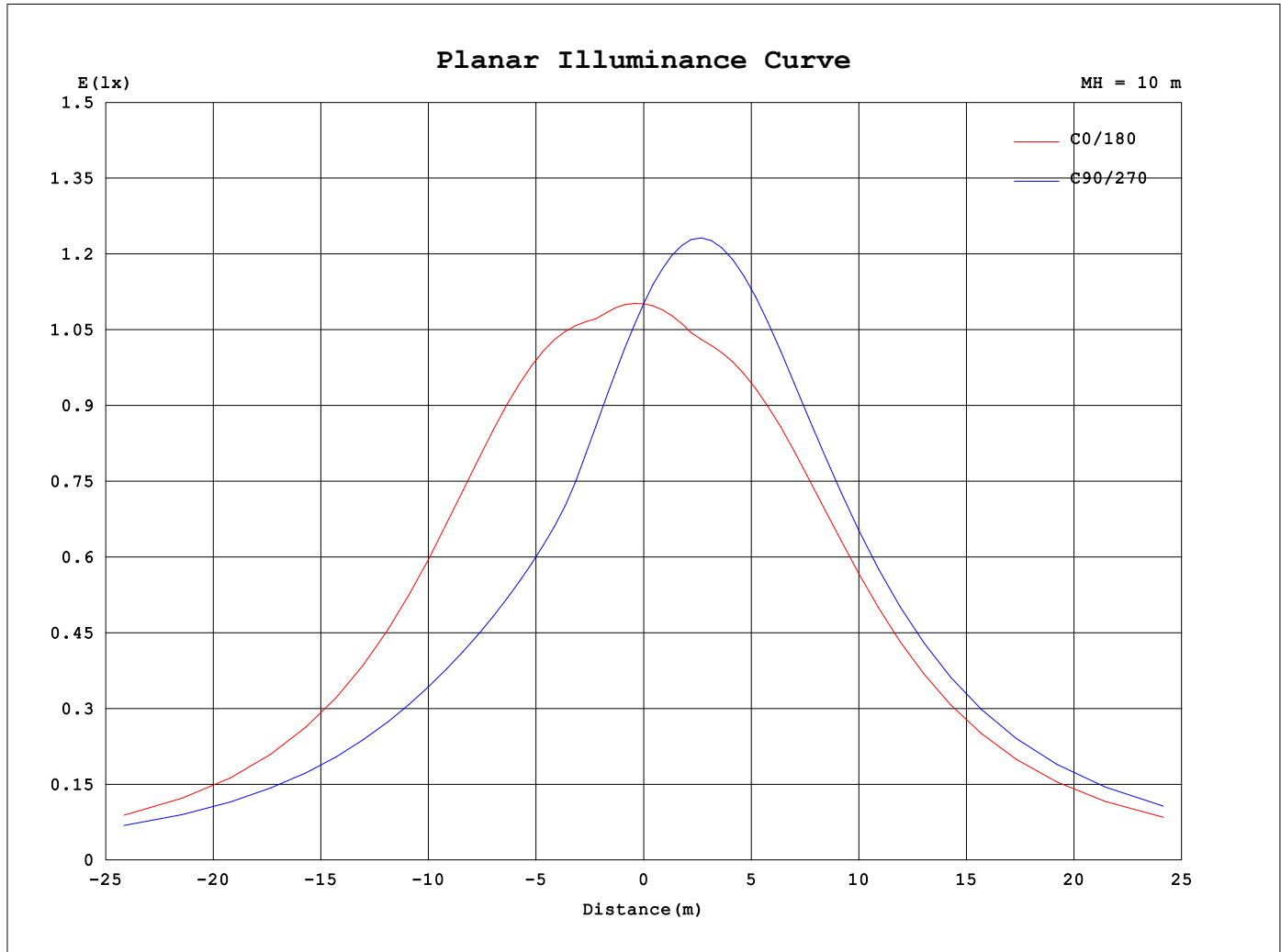
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 16549 |
| L_0~180 (75) av | 24735 |
| L_0~180 (85) av | 66454 |
| L_90~270 (65) av | 16270 |
| L_90~270 (75) av | 26715 |
| L_90~270 (85) av | 76933 |
| L_45 (65) av | 17569 |
| L_45 (75) av | 28803 |
| L_45 (85) av | 82680 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:03 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 03 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| 5 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 103 | 102 | 102 | 103 | 103 | 104 | 105 | 106 | 107 | 109 | 110 |
| 10 | 113 | 110 | 108 | 105 | 102 | 100 | 98.2 | 96.8 | 95.8 | 95.4 | 95.5 | 96.1 | 97.2 | 98.8 | 101 | 103 | 106 | 108 | 111 |
| 15 | 118 | 115 | 111 | 107 | 103 | 99.5 | 95.8 | 92.5 | 90.4 | 89.2 | 89.7 | 90.9 | 93.5 | 96.8 | 100 | 104 | 107 | 111 | 114 |
| 20 | 126 | 122 | 118 | 112 | 107 | 101 | 96.2 | 91.3 | 87.6 | 84.5 | 86.1 | 89.1 | 93.3 | 97.9 | 103 | 108 | 113 | 117 | 121 |
| 25 | 135 | 131 | 125 | 119 | 112 | 105 | 98.1 | 91.6 | 86.4 | 83.6 | 84.8 | 89.0 | 94.6 | 101 | 107 | 113 | 119 | 124 | 129 |
| 30 | 145 | 140 | 134 | 126 | 118 | 109 | 101 | 93.1 | 87.2 | 84.8 | 85.9 | 90.1 | 97.3 | 105 | 112 | 120 | 127 | 133 | 138 |
| 35 | 155 | 149 | 142 | 134 | 125 | 115 | 105 | 95.5 | 89.9 | 87.7 | 88.7 | 92.4 | 101 | 110 | 119 | 127 | 135 | 141 | 147 |
| 40 | 163 | 157 | 150 | 142 | 132 | 121 | 110 | 98.8 | 94.0 | 91.8 | 92.8 | 95.8 | 105 | 116 | 126 | 135 | 142 | 149 | 155 |
| 45 | 168 | 162 | 156 | 148 | 139 | 127 | 114 | 103 | 99.0 | 96.9 | 97.9 | 100 | 110 | 122 | 133 | 141 | 148 | 154 | 160 |
| 50 | 171 | 165 | 160 | 153 | 145 | 132 | 119 | 108 | 105 | 103 | 104 | 105 | 115 | 127 | 138 | 146 | 151 | 156 | 163 |
| 55 | 171 | 166 | 161 | 157 | 150 | 137 | 123 | 112 | 110 | 108 | 109 | 110 | 119 | 132 | 143 | 149 | 153 | 157 | 163 |
| 60 | 168 | 164 | 161 | 159 | 153 | 140 | 125 | 116 | 115 | 114 | 115 | 114 | 122 | 136 | 147 | 151 | 152 | 154 | 160 |
| 65 | 163 | 159 | 159 | 160 | 155 | 143 | 127 | 119 | 120 | 120 | 119 | 118 | 124 | 139 | 149 | 152 | 150 | 150 | 155 |
| 70 | 156 | 154 | 157 | 160 | 157 | 144 | 128 | 122 | 124 | 124 | 123 | 121 | 125 | 140 | 151 | 152 | 148 | 145 | 148 |
| 75 | 149 | 149 | 154 | 159 | 157 | 145 | 128 | 124 | 127 | 128 | 127 | 123 | 126 | 141 | 151 | 151 | 145 | 139 | 141 |
| 80 | 142 | 143 | 151 | 157 | 156 | 144 | 128 | 125 | 129 | 130 | 129 | 125 | 125 | 141 | 150 | 150 | 142 | 134 | 135 |
| 85 | 134 | 137 | 147 | 154 | 154 | 142 | 126 | 126 | 130 | 132 | 130 | 125 | 125 | 139 | 149 | 147 | 139 | 129 | 128 |
| 90 | 127 | 132 | 143 | 151 | 150 | 139 | 125 | 125 | 130 | 132 | 130 | 125 | 123 | 136 | 146 | 144 | 135 | 125 | 122 |
| 95 | 126 | 132 | 143 | 151 | 151 | 138 | 126 | 128 | 133 | 135 | 133 | 127 | 125 | 136 | 147 | 145 | 136 | 125 | 122 |
| 100 | 125 | 131 | 142 | 151 | 150 | 138 | 127 | 130 | 136 | 137 | 135 | 129 | 126 | 136 | 147 | 145 | 136 | 125 | 120 |
| 105 | 121 | 128 | 139 | 147 | 148 | 136 | 128 | 131 | 137 | 138 | 137 | 130 | 126 | 134 | 144 | 143 | 134 | 123 | 117 |
| 110 | 115 | 123 | 134 | 142 | 142 | 132 | 126 | 130 | 136 | 138 | 136 | 130 | 125 | 130 | 140 | 138 | 129 | 118 | 111 |
| 115 | 106 | 116 | 126 | 134 | 135 | 126 | 123 | 128 | 134 | 136 | 134 | 127 | 122 | 125 | 133 | 131 | 123 | 112 | 104 |
| 120 | 95.6 | 106 | 117 | 125 | 126 | 119 | 119 | 124 | 130 | 131 | 130 | 123 | 118 | 118 | 124 | 122 | 114 | 103 | 93.7 |
| 125 | 83.4 | 94.3 | 105 | 114 | 115 | 110 | 113 | 119 | 124 | 126 | 124 | 118 | 112 | 110 | 114 | 111 | 103 | 92.4 | 81.9 |
| 130 | 66.8 | 77.2 | 86.7 | 101 | 103 | 101 | 106 | 112 | 117 | 118 | 117 | 111 | 105 | 100 | 102 | 99.6 | 89.7 | 77.4 | 66.0 |
| 135 | 46.4 | 54.6 | 64.1 | 83.3 | 91.1 | 92.0 | 97.6 | 103 | 108 | 110 | 108 | 103 | 96.4 | 90.9 | 90.3 | 86.8 | 72.4 | 58.0 | 46.8 |
| 140 | 25.9 | 32.3 | 40.7 | 63.3 | 78.0 | 82.3 | 88.6 | 94.0 | 98.5 | 99.5 | 98.0 | 93.3 | 87.5 | 81.1 | 78.6 | 72.8 | 51.0 | 36.7 | 28.0 |
| 145 | 15.2 | 18.1 | 29.5 | 53.4 | 66.0 | 71.4 | 78.6 | 83.7 | 87.6 | 88.5 | 87.2 | 83.0 | 77.6 | 71.3 | 67.2 | 57.8 | 33.2 | 20.0 | 18.0 |
| 150 | 10.6 | 11.5 | 22.3 | 40.2 | 55.0 | 58.6 | 67.0 | 72.8 | 76.1 | 76.8 | 75.7 | 72.1 | 67.4 | 61.6 | 55.6 | 39.9 | 21.6 | 12.0 | 12.2 |
| 155 | 8.31 | 7.94 | 12.5 | 22.6 | 34.8 | 47.0 | 55.6 | 61.6 | 64.5 | 65.1 | 64.2 | 61.3 | 57.0 | 50.3 | 35.7 | 23.0 | 13.5 | 8.77 | 7.44 |
| 160 | 3.64 | 3.50 | 4.03 | 9.46 | 16.6 | 26.9 | 38.8 | 48.5 | 53.1 | 53.5 | 52.8 | 48.0 | 39.5 | 29.2 | 18.7 | 10.5 | 6.87 | 6.15 | 5.04 |
| 165 | 3.05 | 2.95 | 2.28 | 3.23 | 6.66 | 11.9 | 18.3 | 24.1 | 27.1 | 28.0 | 26.8 | 23.7 | 18.7 | 13.0 | 7.43 | 3.26 | 2.46 | 3.89 | 3.82 |
| 170 | 3.88 | 4.46 | 3.62 | 2.55 | 1.85 | 2.65 | 5.77 | 7.44 | 8.58 | 8.86 | 8.45 | 7.20 | 5.35 | 2.38 | 1.89 | 2.69 | 3.71 | 3.43 | 4.02 |
| 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 | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:03 January 2023

γ Range: 0 - 170DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------------|-----------------------|------------------|
| NAME: 95MALIA24LED/WH | TYPE: | WEIGHT: 1 |
| SPEC.: | DIM.: 270 x 120 x 110 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: 4 circler | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | | |
| 5 | 111 | 113 | 114 | 115 | 116 | 117 | 118 | 118 | 118 | 118 | 118 | 118 | 117 | 116 | 115 | 114 | 112 | | |
| 10 | 114 | 117 | 119 | 121 | 123 | 125 | 126 | 127 | 127 | 127 | 127 | 126 | 125 | 123 | 121 | 119 | 116 | | |
| 15 | 118 | 121 | 125 | 128 | 131 | 133 | 135 | 136 | 136 | 137 | 136 | 135 | 133 | 131 | 128 | 124 | 121 | | |
| 20 | 124 | 127 | 131 | 135 | 139 | 142 | 144 | 145 | 146 | 146 | 145 | 144 | 142 | 139 | 135 | 132 | 129 | | |
| 25 | 133 | 136 | 139 | 143 | 147 | 150 | 153 | 154 | 155 | 155 | 154 | 153 | 150 | 146 | 143 | 141 | 138 | | |
| 30 | 142 | 145 | 147 | 150 | 154 | 158 | 161 | 163 | 164 | 164 | 163 | 161 | 158 | 154 | 152 | 151 | 148 | | |
| 35 | 151 | 154 | 155 | 157 | 161 | 166 | 168 | 171 | 172 | 172 | 170 | 169 | 165 | 162 | 161 | 160 | 158 | | |
| 40 | 160 | 163 | 164 | 164 | 167 | 172 | 175 | 178 | 178 | 179 | 177 | 175 | 171 | 169 | 170 | 170 | 166 | | |
| 45 | 166 | 170 | 171 | 171 | 172 | 177 | 180 | 183 | 184 | 185 | 183 | 181 | 177 | 177 | 178 | 177 | 173 | | |
| 50 | 169 | 175 | 178 | 177 | 176 | 181 | 184 | 188 | 189 | 189 | 187 | 185 | 181 | 183 | 184 | 182 | 176 | | |
| 55 | 169 | 176 | 182 | 183 | 179 | 184 | 186 | 190 | 191 | 192 | 190 | 188 | 185 | 189 | 188 | 184 | 177 | | |
| 60 | 166 | 174 | 183 | 187 | 182 | 185 | 187 | 191 | 193 | 193 | 191 | 190 | 187 | 193 | 189 | 182 | 174 | | |
| 65 | 161 | 170 | 180 | 190 | 183 | 185 | 187 | 191 | 192 | 193 | 190 | 190 | 188 | 195 | 186 | 177 | 169 | | |
| 70 | 154 | 163 | 175 | 191 | 183 | 183 | 185 | 189 | 190 | 190 | 188 | 188 | 188 | 196 | 181 | 169 | 162 | | |
| 75 | 147 | 155 | 169 | 189 | 182 | 180 | 181 | 185 | 186 | 186 | 184 | 185 | 187 | 194 | 174 | 162 | 154 | | |
| 80 | 141 | 151 | 164 | 185 | 179 | 175 | 175 | 179 | 180 | 181 | 179 | 179 | 183 | 189 | 169 | 157 | 147 | | |
| 85 | 138 | 148 | 160 | 179 | 174 | 169 | 169 | 172 | 172 | 173 | 172 | 173 | 178 | 183 | 164 | 154 | 143 | | |
| 90 | 134 | 144 | 156 | 173 | 168 | 162 | 161 | 164 | 164 | 165 | 164 | 166 | 172 | 177 | 160 | 149 | 139 | | |
| 95 | 131 | 143 | 155 | 170 | 165 | 157 | 156 | 158 | 158 | 160 | 158 | 161 | 168 | 173 | 159 | 147 | 136 | | |
| 100 | 126 | 136 | 146 | 160 | 156 | 148 | 146 | 148 | 148 | 149 | 148 | 151 | 159 | 163 | 149 | 140 | 130 | | |
| 105 | 118 | 126 | 133 | 143 | 142 | 135 | 132 | 134 | 133 | 135 | 134 | 138 | 144 | 146 | 136 | 130 | 122 | | |
| 110 | 108 | 114 | 118 | 124 | 124 | 119 | 116 | 116 | 115 | 117 | 117 | 121 | 126 | 127 | 121 | 117 | 111 | | |
| 115 | 97.6 | 101 | 102 | 105 | 103 | 101 | 97.2 | 96.8 | 95.2 | 97.2 | 98.0 | 102 | 105 | 106 | 104 | 103 | 99.6 | | |
| 120 | 85.7 | 86.0 | 86.5 | 85.4 | 82.9 | 80.8 | 77.5 | 76.4 | 75.1 | 76.4 | 77.7 | 81.3 | 83.6 | 86.4 | 87.5 | 87.0 | 86.1 | | |
| 125 | 71.2 | 69.7 | 69.3 | 68.0 | 63.6 | 60.3 | 57.2 | 56.1 | 55.2 | 56.0 | 57.0 | 60.3 | 63.5 | 68.0 | 69.5 | 70.0 | 70.1 | | |
| 130 | 55.7 | 52.5 | 51.4 | 49.7 | 45.4 | 41.8 | 38.9 | 38.3 | 37.8 | 38.3 | 38.7 | 41.2 | 44.6 | 48.9 | 50.6 | 51.8 | 53.0 | | |
| 135 | 39.0 | 35.5 | 33.2 | 31.1 | 27.2 | 24.8 | 23.8 | 24.2 | 24.2 | 24.3 | 23.6 | 24.1 | 25.8 | 29.6 | 31.5 | 33.9 | 35.5 | | |
| 140 | 23.5 | 20.4 | 16.2 | 13.2 | 10.6 | 11.3 | 12.2 | 13.4 | 13.7 | 13.5 | 12.3 | 11.1 | 9.68 | 11.1 | 13.8 | 18.3 | 20.9 | | |
| 145 | 13.7 | 10.5 | 6.03 | 1.89 | 2.40 | 3.88 | 5.10 | 6.15 | 6.43 | 6.26 | 5.27 | 4.05 | 2.52 | 1.52 | 3.81 | 8.72 | 12.4 | | |
| 150 | 9.00 | 6.63 | 4.07 | 2.35 | 1.41 | 1.46 | 1.83 | 2.26 | 2.38 | 2.33 | 1.94 | 1.58 | 1.35 | 1.91 | 3.17 | 5.46 | 6.47 | | |
| 155 | 5.35 | 5.13 | 3.67 | 2.53 | 1.60 | 1.24 | 1.20 | 1.20 | 1.21 | 1.22 | 1.23 | 1.25 | 1.32 | 1.86 | 2.79 | 4.31 | 5.89 | | |
| 160 | 5.77 | 4.66 | 2.99 | 2.48 | 1.59 | 1.24 | 1.20 | 1.21 | 1.20 | 1.23 | 1.22 | 1.27 | 1.31 | 1.68 | 2.19 | 4.11 | 6.09 | | |
| 165 | 5.07 | 2.73 | 1.36 | 1.32 | 1.29 | 1.28 | 1.24 | 1.26 | 1.23 | 1.26 | 1.25 | 1.30 | 1.30 | 1.33 | 1.37 | 1.85 | 3.86 | | |
| 170 | 2.26 | 1.38 | 1.34 | 1.33 | 1.29 | 1.30 | 1.27 | 1.28 | 1.27 | 1.28 | 1.29 | 1.30 | 1.31 | 1.33 | 1.36 | 1.37 | 1.55 | | |
| 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 | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:03 January 2023

γ Range: 0 - 170DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: