

Report No.:

Test Time: 2022/7/25 15:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): 578

Luminous Height (mm):

Current: 1.084 A

Power Factor: 0.952

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 345

Voltage: 277.0 V

Power: 285.73 W

Photometric Results

CIE Class: Direct

Measurement Flux: 40508.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%): H144.7,H90.3

Vertical Diffuse Angle(10%,50%): V130.6,V91

Luminaire Efficacy Rating (LER): 141.82

Max. Intensity: 18898.45 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 40508.7 lm

Efficiency: 100%

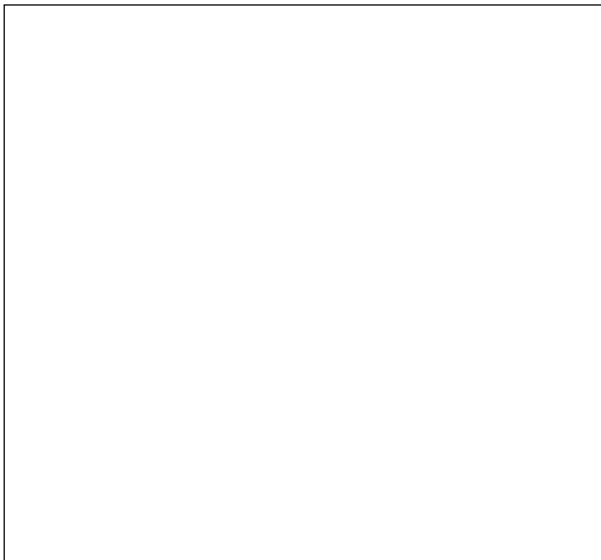
Upward Ratio: 0%

C0r0 Intensity: 18874.16 cd

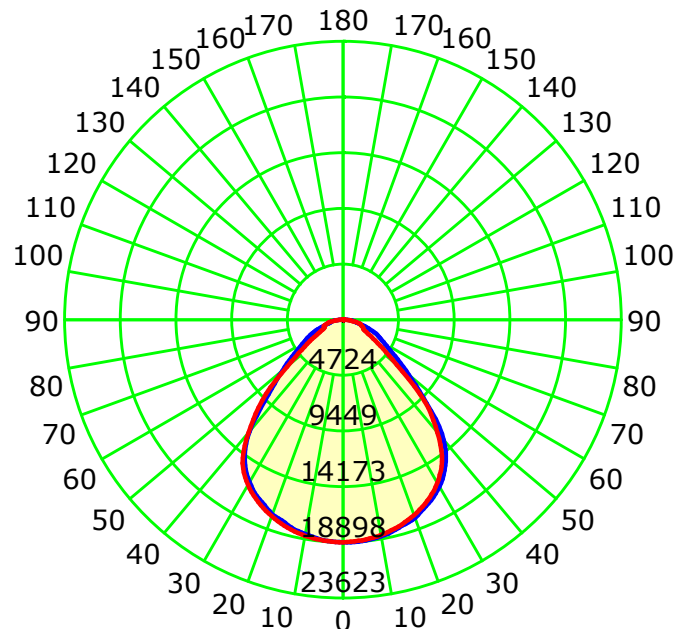
Pos of Max. Intensity: H337.5 V2

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 90.6°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.1 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

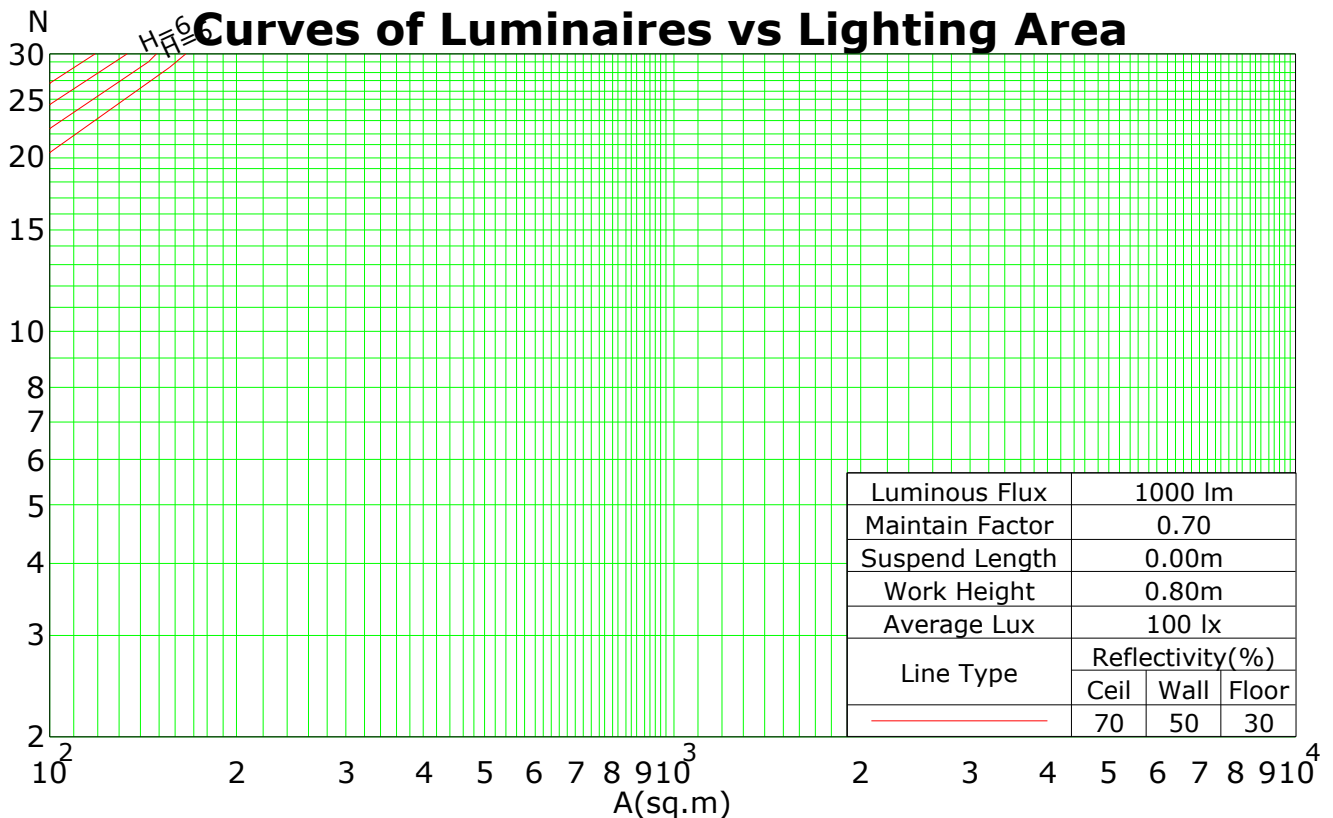
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RC | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0 |
| RW | 0.7 | 0.5 | 0.3 | 0.1 | 0.7 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0 |
| RCR | RF = 0.2 | | | | | | | | | | | | | | | | | |
| 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1 | 1.10 | 1.06 | 1.02 | 0.99 | 1.07 | 1.04 | 1.00 | 0.97 | 0.99 | 0.97 | 0.94 | 0.96 | 0.93 | 0.91 | 0.92 | 0.90 | 0.89 | 0.87 |
| 2 | 1.02 | 0.94 | 0.89 | 0.84 | 0.99 | 0.93 | 0.87 | 0.83 | 0.89 | 0.85 | 0.81 | 0.86 | 0.82 | 0.79 | 0.83 | 0.80 | 0.77 | 0.75 |
| 3 | 0.94 | 0.85 | 0.77 | 0.72 | 0.92 | 0.83 | 0.76 | 0.71 | 0.80 | 0.74 | 0.70 | 0.77 | 0.73 | 0.69 | 0.75 | 0.71 | 0.67 | 0.65 |
| 4 | 0.87 | 0.76 | 0.68 | 0.62 | 0.85 | 0.75 | 0.68 | 0.62 | 0.72 | 0.66 | 0.61 | 0.70 | 0.65 | 0.60 | 0.68 | 0.63 | 0.60 | 0.58 |
| 5 | 0.81 | 0.69 | 0.61 | 0.55 | 0.79 | 0.68 | 0.60 | 0.55 | 0.66 | 0.59 | 0.54 | 0.64 | 0.58 | 0.54 | 0.62 | 0.57 | 0.53 | 0.51 |
| 6 | 0.75 | 0.63 | 0.55 | 0.49 | 0.73 | 0.62 | 0.54 | 0.49 | 0.60 | 0.53 | 0.48 | 0.59 | 0.52 | 0.48 | 0.57 | 0.52 | 0.47 | 0.46 |
| 7 | 0.70 | 0.58 | 0.49 | 0.44 | 0.68 | 0.57 | 0.49 | 0.44 | 0.55 | 0.48 | 0.43 | 0.54 | 0.48 | 0.43 | 0.53 | 0.47 | 0.43 | 0.41 |
| 8 | 0.65 | 0.53 | 0.45 | 0.40 | 0.64 | 0.52 | 0.45 | 0.39 | 0.51 | 0.44 | 0.39 | 0.50 | 0.44 | 0.39 | 0.49 | 0.43 | 0.39 | 0.37 |
| 9 | 0.61 | 0.49 | 0.41 | 0.36 | 0.60 | 0.48 | 0.41 | 0.36 | 0.47 | 0.40 | 0.36 | 0.46 | 0.40 | 0.36 | 0.45 | 0.39 | 0.35 | 0.34 |
| 10 | 0.58 | 0.45 | 0.38 | 0.33 | 0.56 | 0.45 | 0.38 | 0.33 | 0.44 | 0.37 | 0.33 | 0.43 | 0.37 | 0.33 | 0.42 | 0.36 | 0.32 | 0.31 |

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.27



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 25.1 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

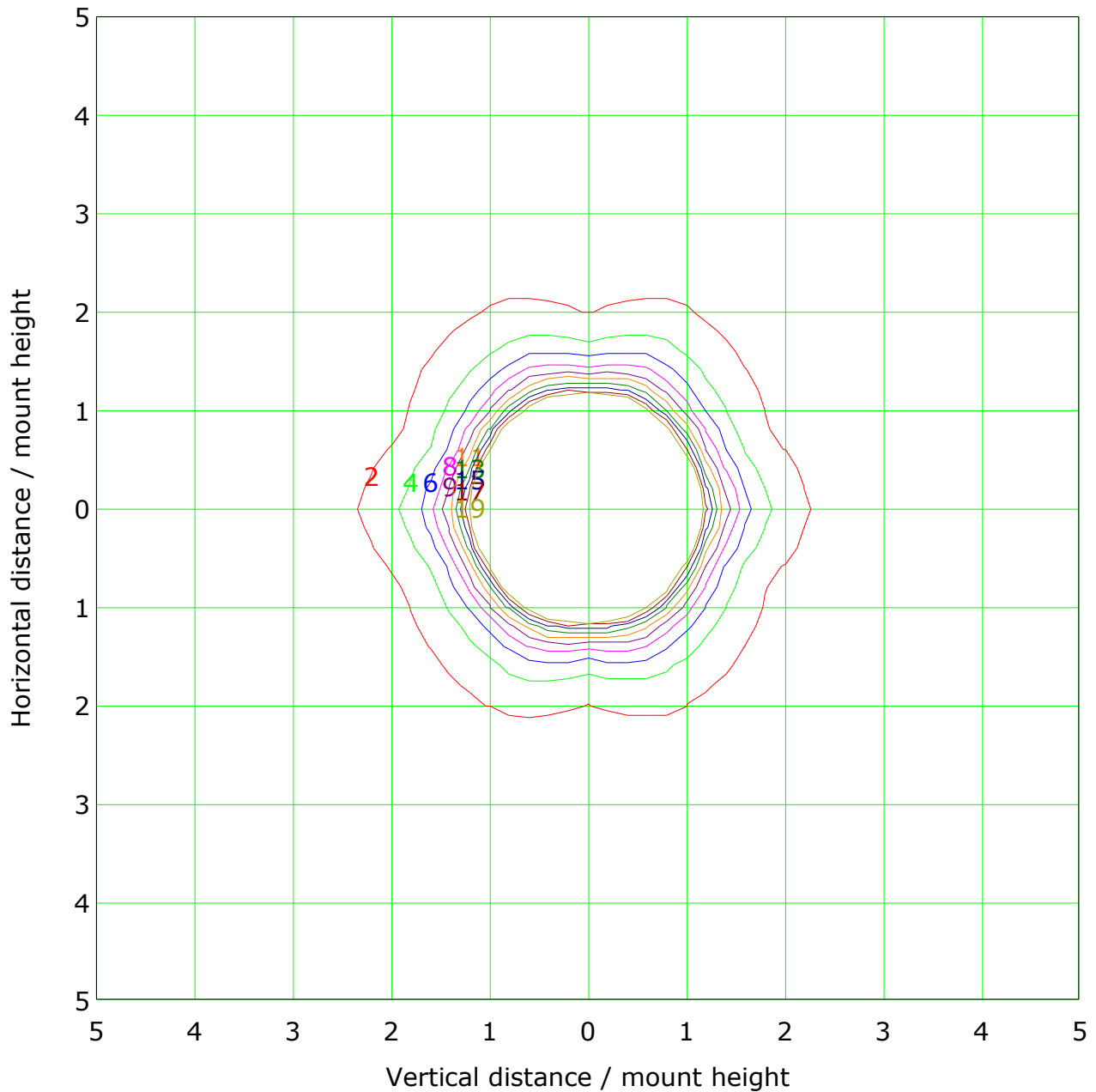
Test Device: GPM-3000

Distance: 14.140 m [K=1.0000]

Humidity:

Inspector:

IsoLux Plot



| | | | |
|------------------------|---------|-------------------------|---------|
| Mounting Height: 10.0m | | Max Lux(100%): 188.9 lx | |
| (1%): | 1.9 lx | (2%): | 3.8 lx |
| (3%): | 5.7 lx | (4%): | 7.6 lx |
| (5%): | 9.4 lx | (6%): | 11.3 lx |
| (7%): | 13.2 lx | (8%): | 15.1 lx |
| (9%): | 17.0 lx | (10%): | 18.9 lx |

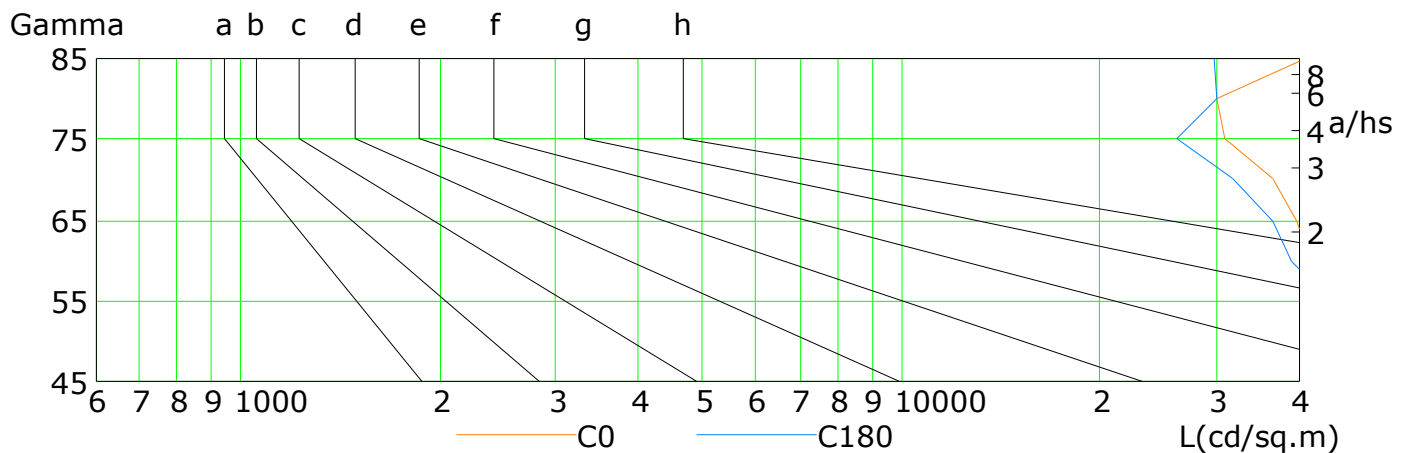
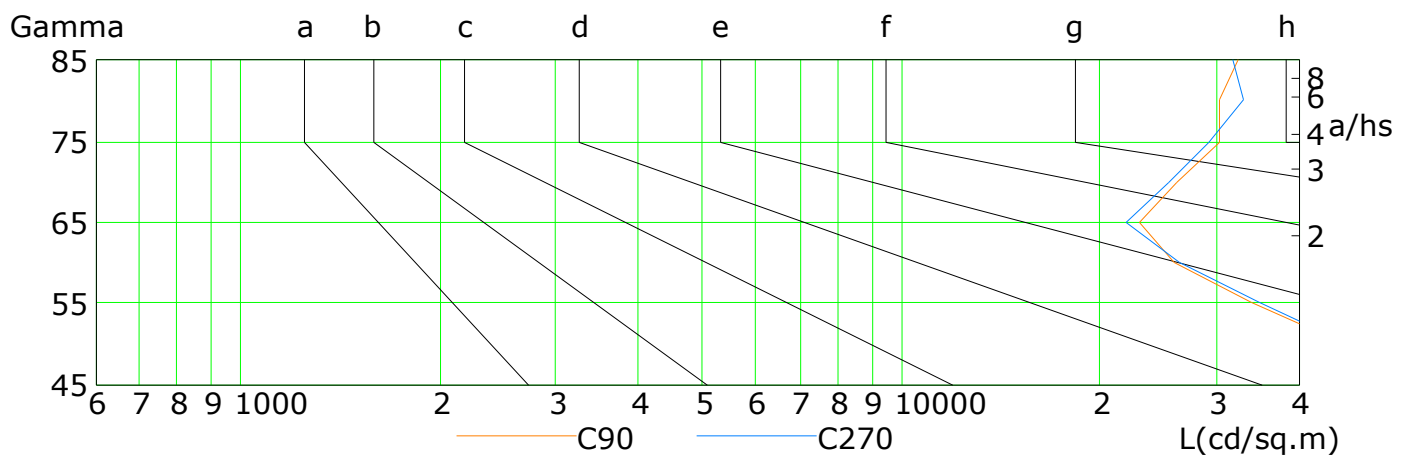
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.1 'C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-3000
Distance: 14.140 m [K=1.0000]
Humidity:
Inspector:

Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) | | | | | | | |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |

a b c d e f g h

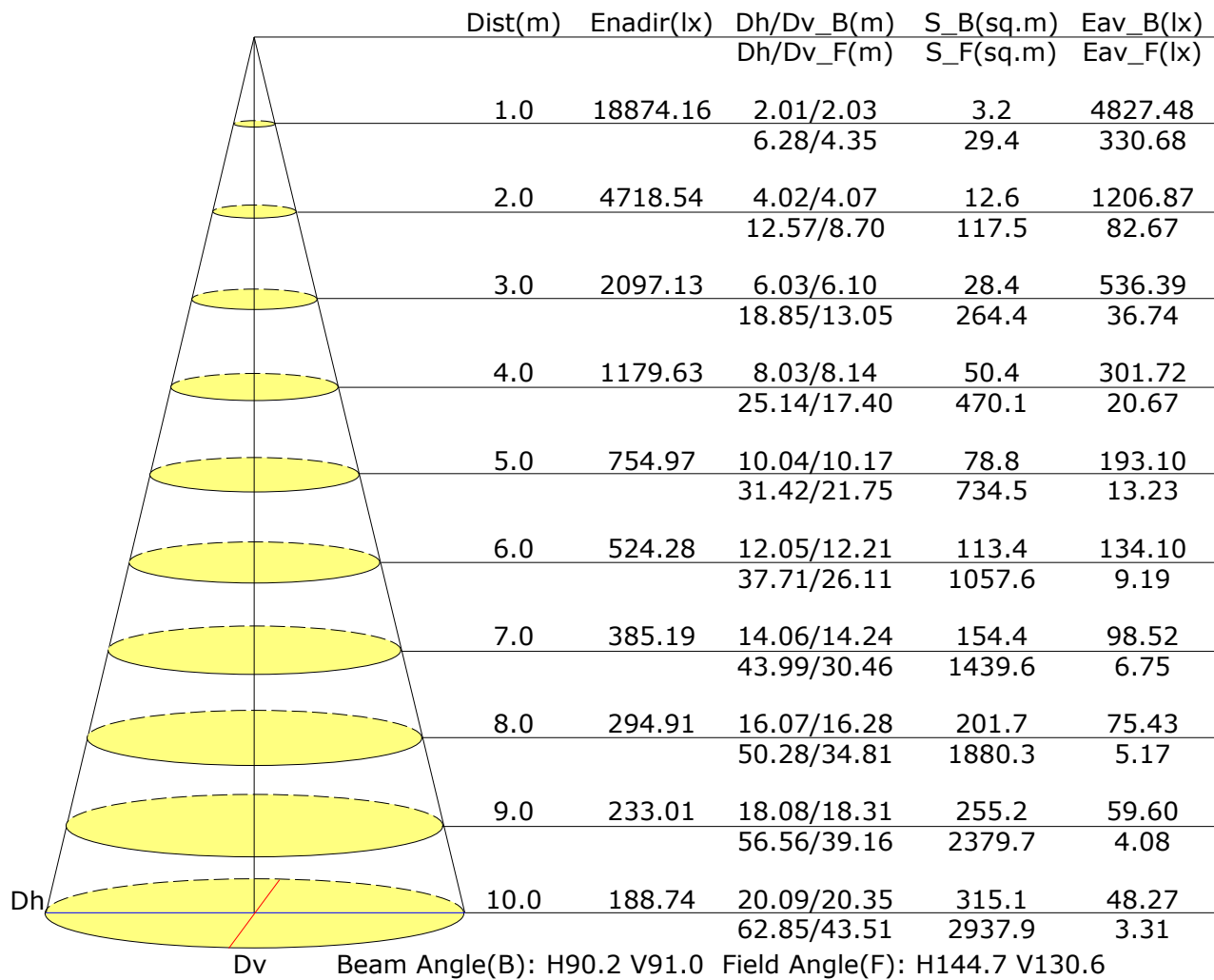


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 71297 | 57204 | 47411 | 41453 | 39668 | 36425 | 30794 | 29978 | 41219 |
| C90 | 69593 | 46713 | 33891 | 25947 | 22947 | 26026 | 30271 | 30259 | 32252 |
| C180 | 63488 | 52428 | 44245 | 38831 | 36423 | 31625 | 26030 | 29896 | 29640 |
| C270 | 69012 | 48586 | 34827 | 26365 | 21838 | 25288 | 29324 | 32894 | 31880 |

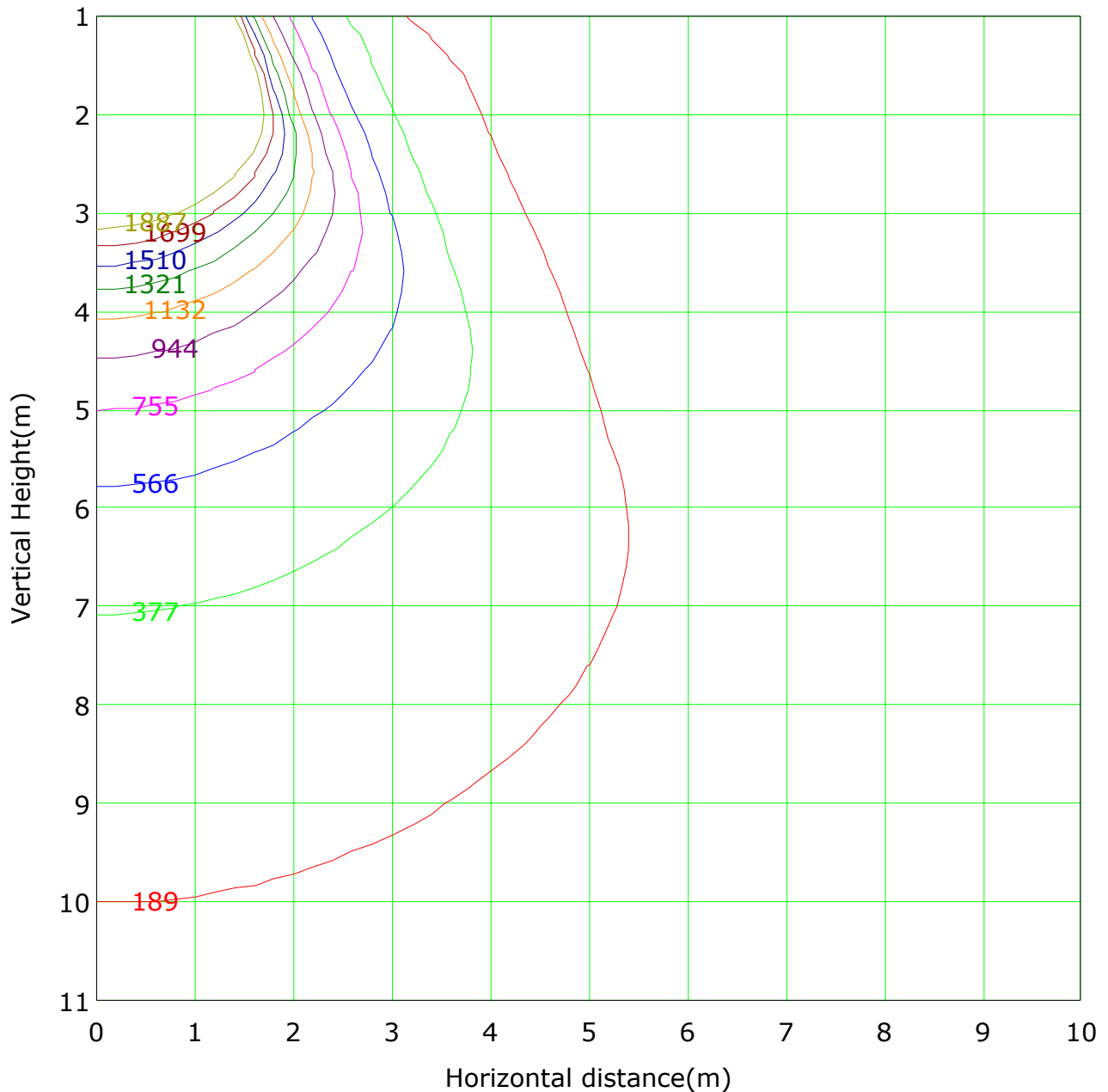
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.1 'C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-3000
Distance: 14.140 m [K=1.0000]
Humidity:
Inspector:

Illuminance at a Distance



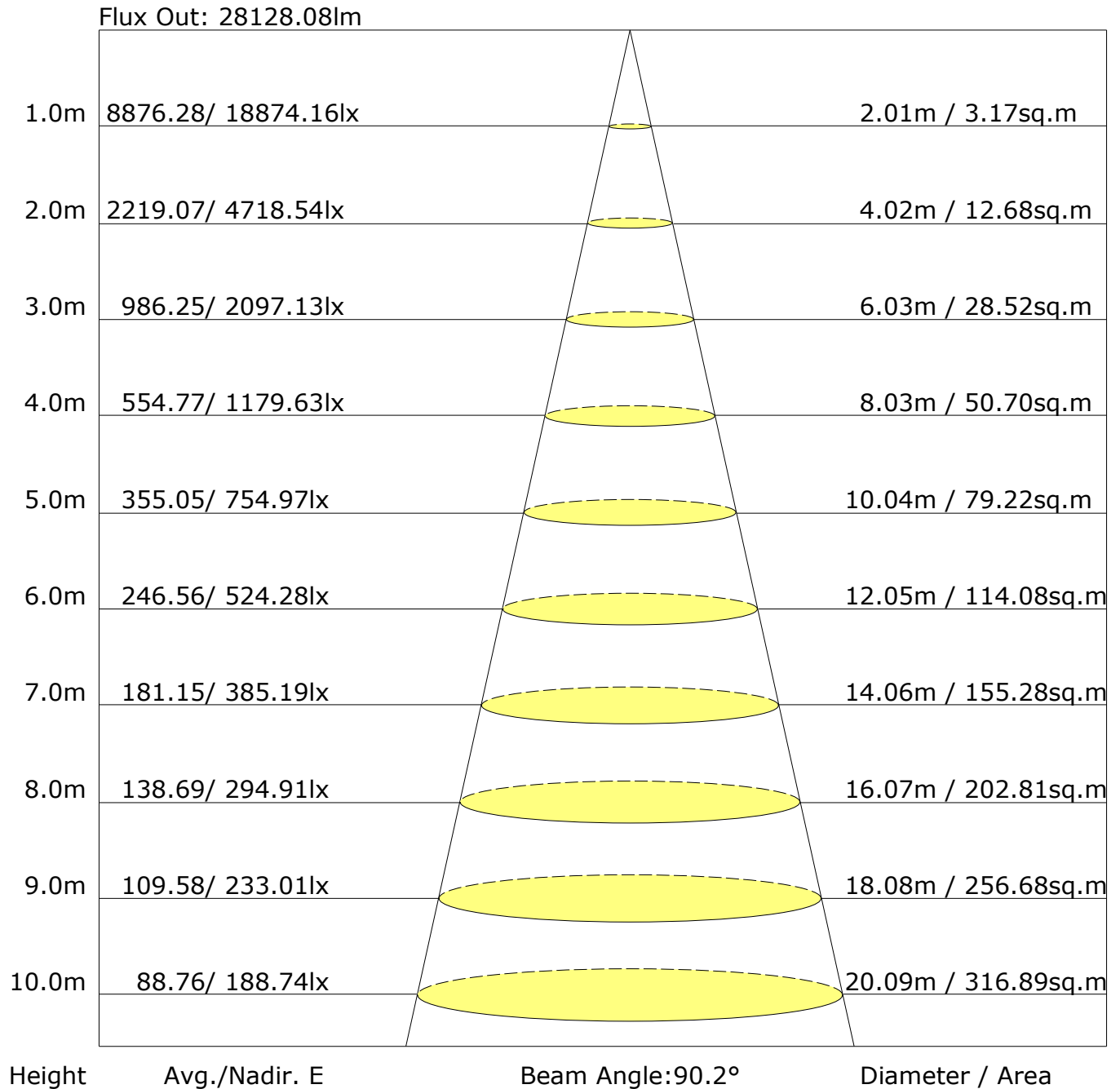
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 18874.2 lx

| | |
|------------------|-------------------|
| (1%): 188.7 lx | (2%): 377.5 lx |
| (3%): 566.2 lx | (4%): 755.0 lx |
| (5%): 943.7 lx | (6%): 1132.4 lx |
| (7%): 1321.2 lx | (8%): 1509.9 lx |
| (9%): 1698.7 lx | (10%): 1887.4 lx |

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25.1 'C
Operator:

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-3000
Distance: 14.140 m [K=1.0000]
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

| | ZONE | LUMENS | % LAMP LUMENS |
|--|----------------|--------|---------------|
| | FORWARD LIGHT | 20118 | 49.7 |
| | FL (0°-30°) | 7368 | 18.2 |
| | FM (30°-60°) | 10284 | 25.4 |
| | FH (60°-80°) | 2160 | 5.3 |
| | FVH (80°-90°) | 306 | 0.8 |
| | BACK LIGHT | 20263 | 50.0 |
| | BL (0°-30°) | 7391 | 18.2 |
| | BM (30°-60°) | 10359 | 25.6 |
| | BH (60°-80°) | 2203 | 5.4 |
| | BVH (80°-90°) | 310 | 0.8 |
| | UP LIGHT | 128 | 0.3 |
| | UL (90°-100°) | 15 | 0.0 |
| | UH (100°-180°) | 113 | 0.3 |
| | TRAPPED LIGHT | NA | NA |

| BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07 | |
|--|----------|
| Asymmetrical Luminaire Types (Type I,II,III,IV) | B5 U5 G3 |
| Quadrilateral Symmetrical Luminaire Types (Type V,Area Light) | B5 U5 G2 |

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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-3000
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