

Report No.: 02

Test Time: 2016-11-07 13:36:49

Luminaire Property

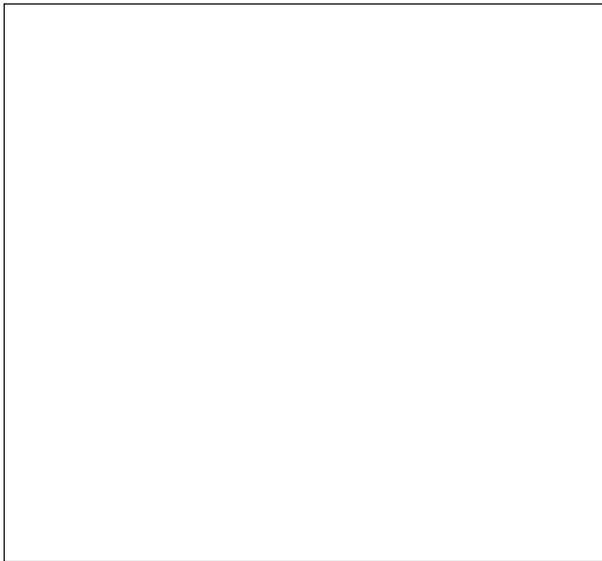
Luminaire Manufacturer: ASD Lighting Corp.
 Luminaire Description: ASD-LVP2SM-4D3140PRM
 Lamp Description: ASD-LVP2SM-4D3140PRM Number of Lamps: 1
 Lumens per Lamp: 3860.7 lm
 Luminous Width (mm): 90 mm
 Power: 30.80 W
 Luminous Length (mm): 1220 mm
 Luminous Height (mm): 80 mm

Photometric Results

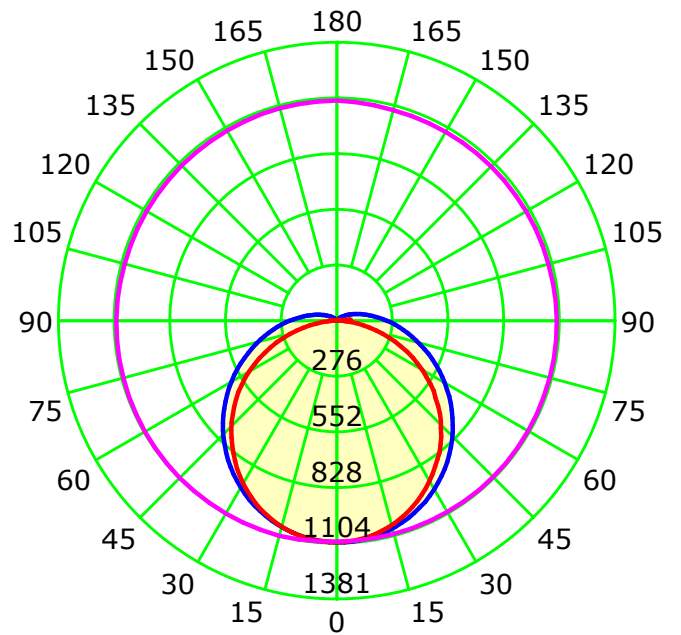
CIE Class: Direct
 Measurement Flux: 3859.3 lm
 Downward Ratio: 93.11%
 Field Angle: H214.5 V163.1
 Luminaire Efficacy Rating (LER): 125
 Max. Intensity: 1104.82 cd

Total Rated Lamp Lumens: 3860.7 lm
 Efficiency: 99.96%
 Upward Ratio: 6.86%
 Beam Angle: H129.2 V113.8
 Central Intensity: 1099.69 cd
 Pos of Max. Intensity: H345 V6

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G6

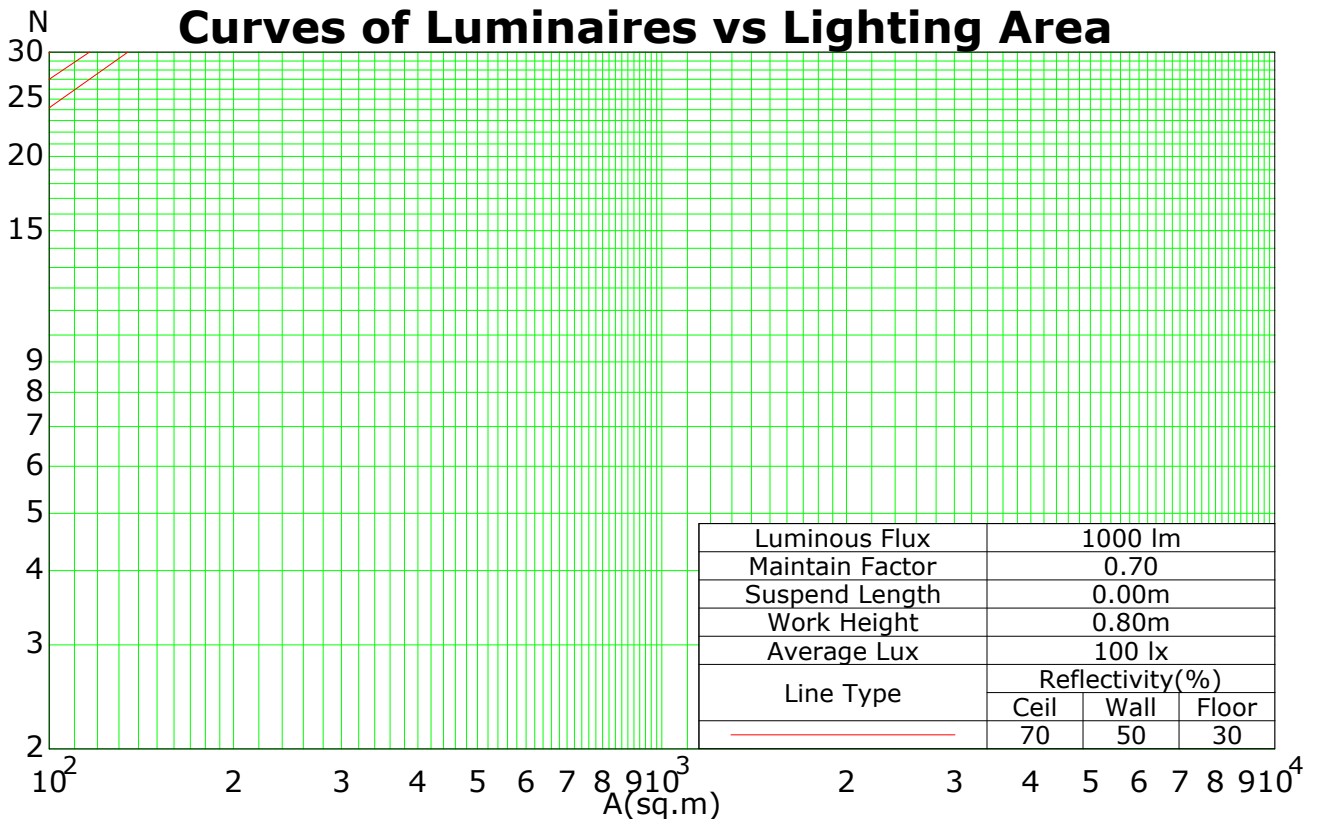
C Plane (°):0.0-360.0: 15.0
 Test Lab: EVERFINE
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:2.0
 Test Device:
 Distance:
 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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1 | 105 | 100 | 95 | 90 | 102 | 97 | 92 | 88 | 91 | 87 | 84 | 86 | 83 | 80 | 81 | 79 | 77 | 74 |
| 2 | 95 | 86 | 78 | 72 | 92 | 83 | 76 | 71 | 79 | 73 | 68 | 74 | 69 | 65 | 70 | 66 | 63 | 60 |
| 3 | 86 | 75 | 66 | 59 | 83 | 73 | 65 | 58 | 69 | 62 | 56 | 65 | 59 | 54 | 61 | 57 | 52 | 50 |
| 4 | 79 | 66 | 57 | 49 | 76 | 64 | 55 | 49 | 61 | 53 | 47 | 57 | 51 | 46 | 54 | 49 | 45 | 42 |
| 5 | 72 | 59 | 49 | 42 | 69 | 57 | 48 | 42 | 54 | 47 | 41 | 51 | 45 | 40 | 49 | 43 | 38 | 36 |
| 6 | 66 | 53 | 43 | 37 | 64 | 51 | 43 | 36 | 49 | 41 | 35 | 46 | 40 | 35 | 44 | 38 | 34 | 31 |
| 7 | 62 | 48 | 39 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 28 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 9 | 53 | 40 | 31 | 26 | 52 | 39 | 31 | 25 | 37 | 30 | 25 | 36 | 29 | 24 | 34 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 22 | 32 | 26 | 22 | 20 |

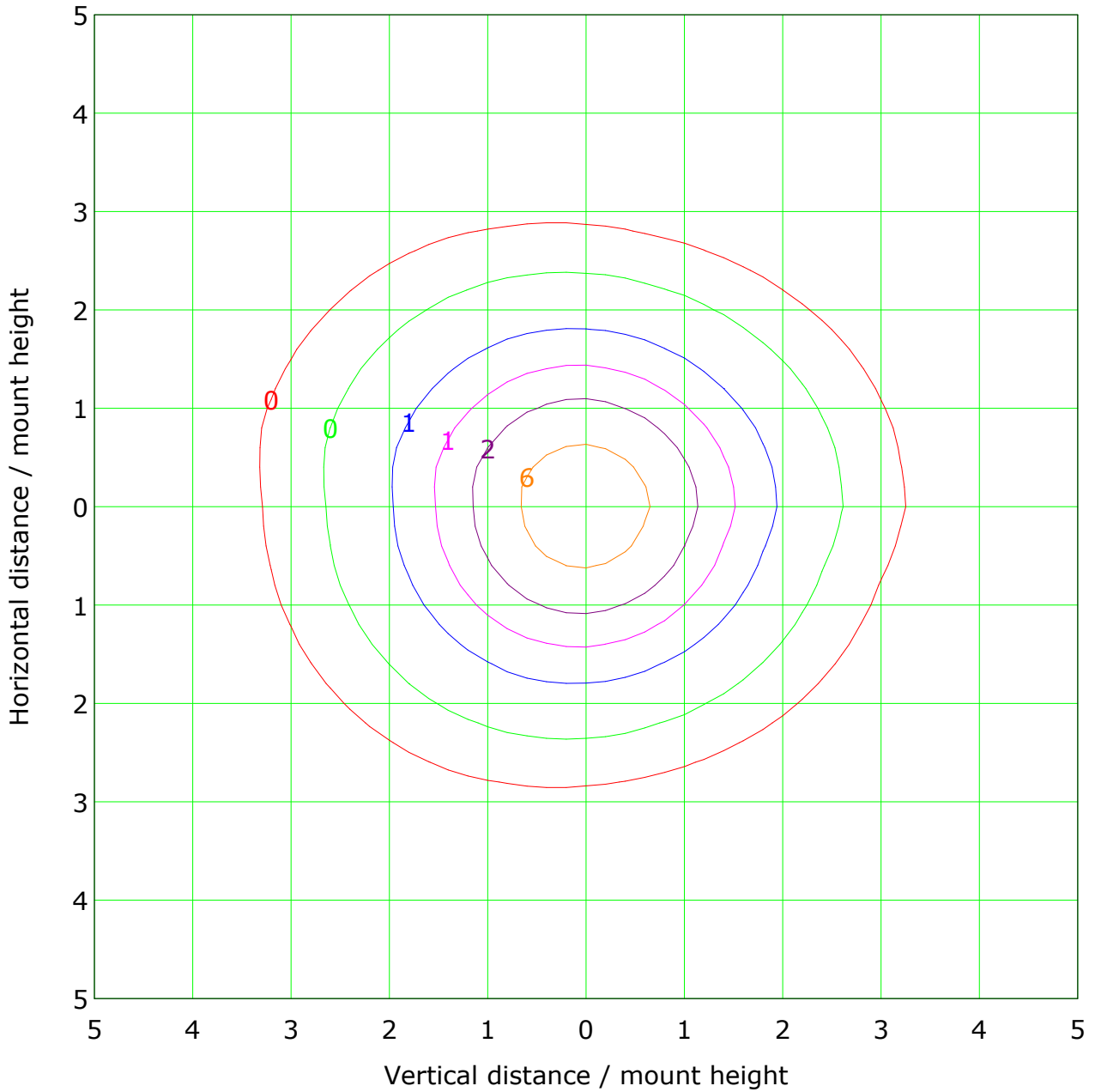
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 1.25
 Spacing Criteria (Diagonal): 1.40



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Gamma Plane (°):0.0-180.0:2.0
 Test Device:
 Distance:
 Humidity:
 Inspector:

IsoLux Plot



| | | | |
|---|---|------------------------|--|
| Mounting Height: 10.0m | | Max Lux(100%): 11.0 lx | |
| <ul style="list-style-type: none"> — (1%): 0.1 lx — (5%): 0.6 lx — (20%): 2.2 lx — (100%): 11.0 lx | <ul style="list-style-type: none"> — (2%): 0.2 lx — (10%): 1.1 lx — (50%): 5.5 lx | | |

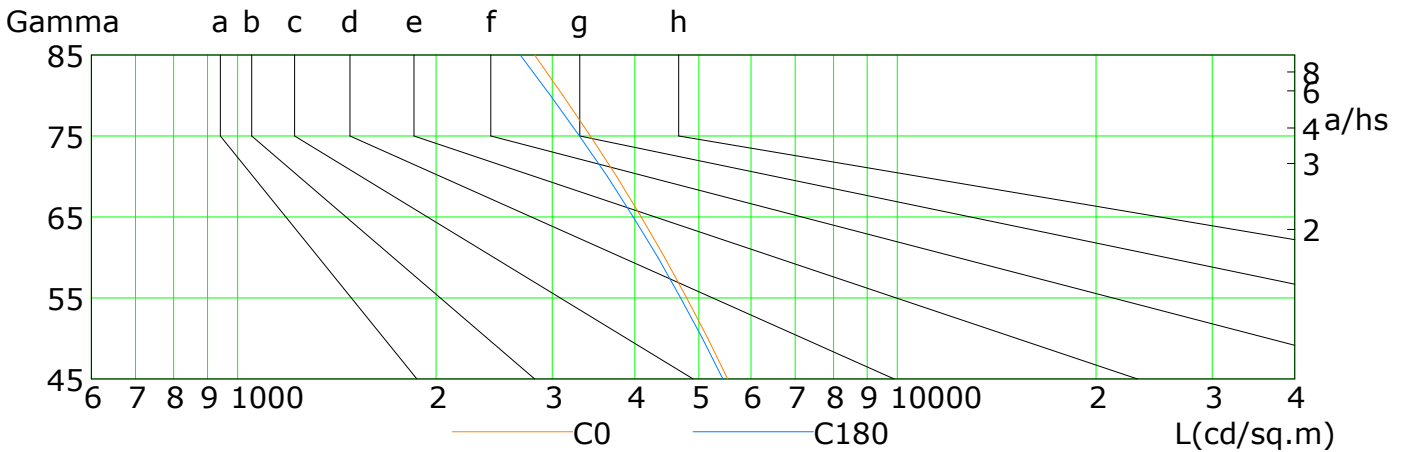
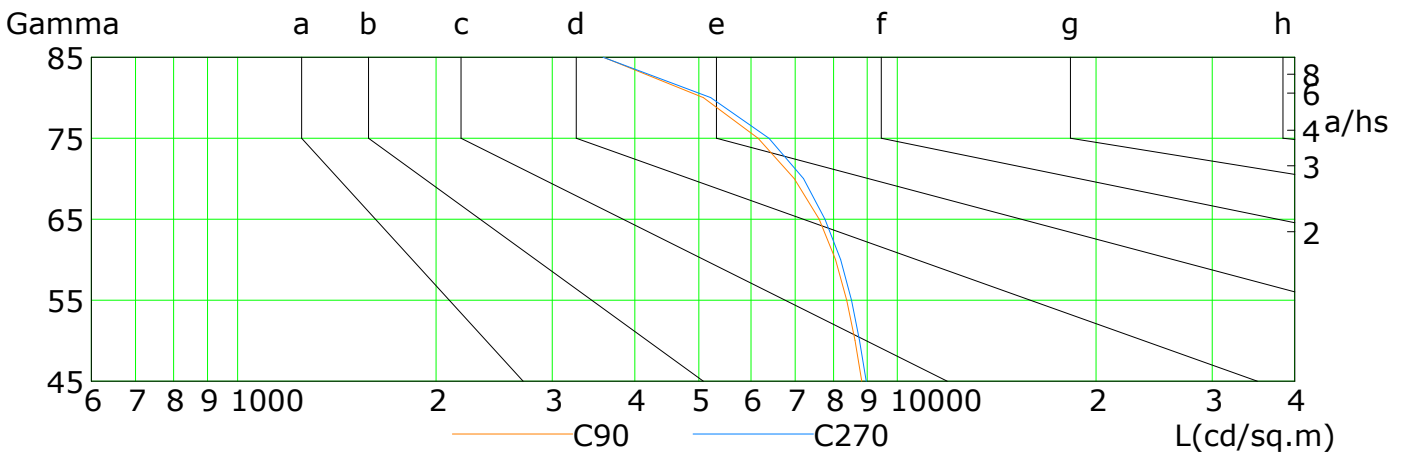
C Plane (°):0.0-360.0: 15.0
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 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:2.0
 Test Device:
 Distance:
 Humidity:
 Inspector:

Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) | | | | | | | |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| | | 2000 | 1000 | 500 | <=300 | | | | |
| 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

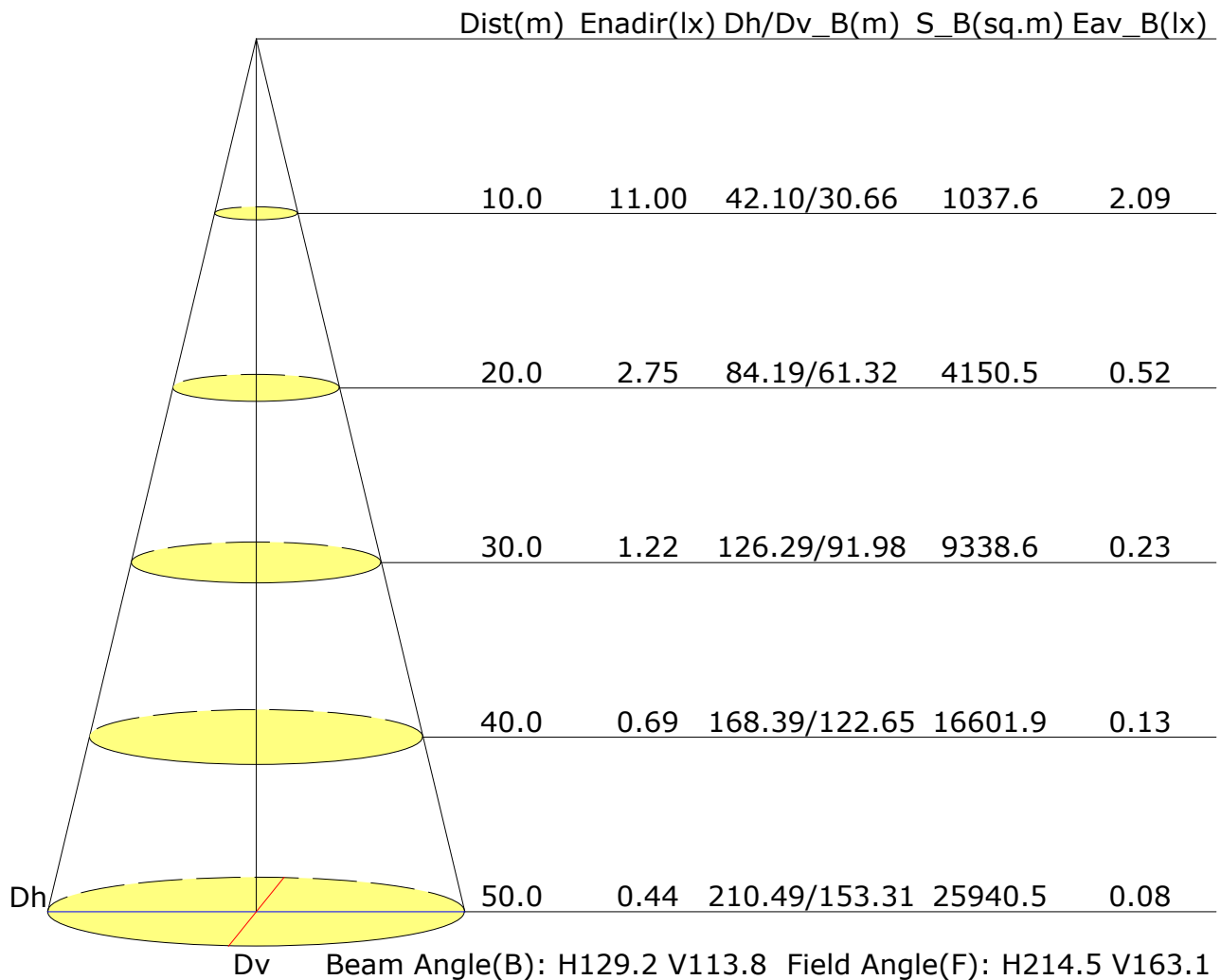


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|------|------|------|------|
| C0 | 5531 | 5160 | 4796 | 4439 | 4092 | 3751 | 3423 | 3110 | 2820 |
| C90 | 8826 | 8630 | 8383 | 8059 | 7611 | 6979 | 6149 | 5079 | 3584 |
| C180 | 5438 | 5063 | 4695 | 4334 | 3979 | 3632 | 3297 | 2977 | 2681 |
| C270 | 8967 | 8761 | 8519 | 8200 | 7765 | 7209 | 6390 | 5213 | 3580 |

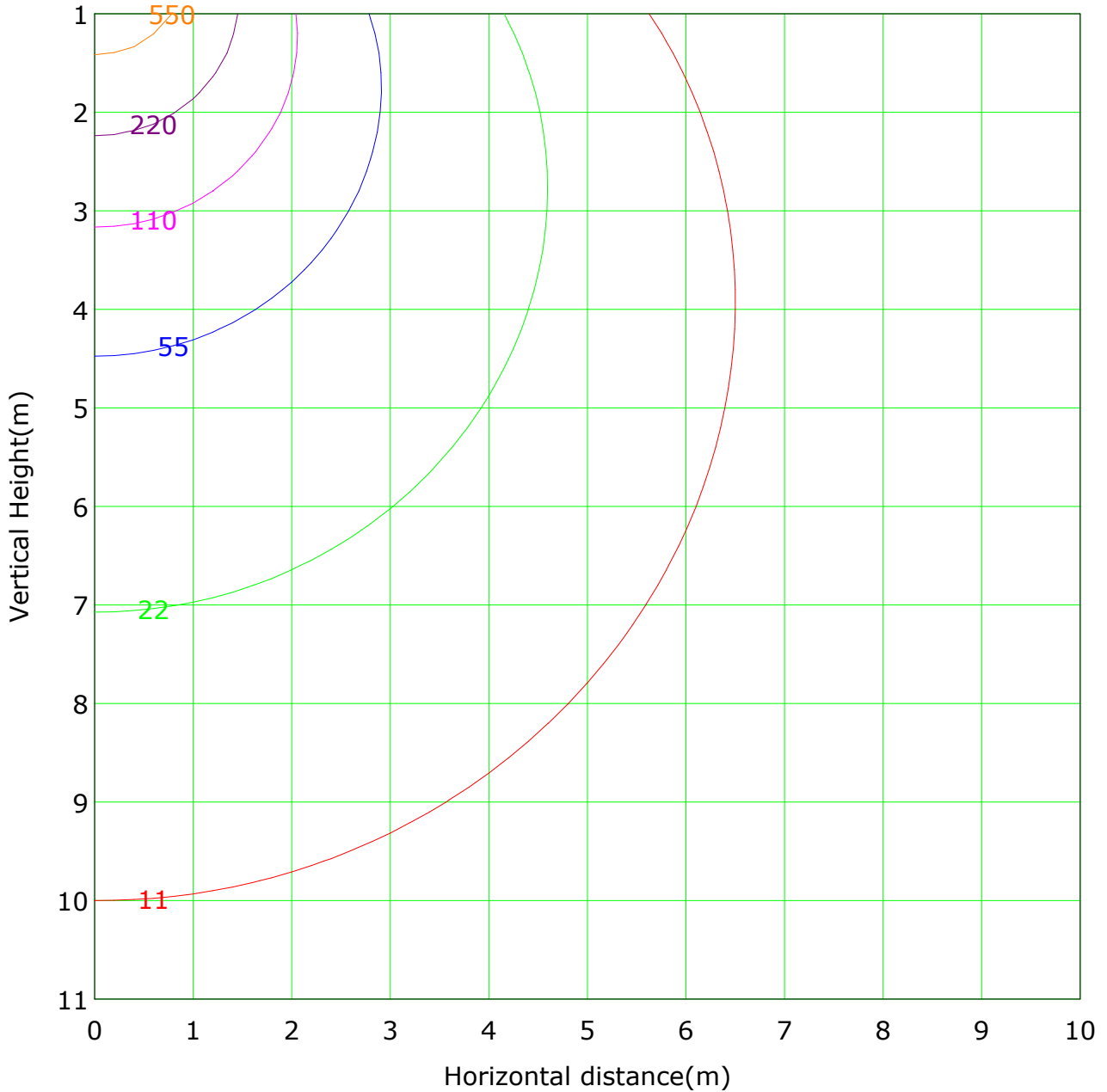
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 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:2.0
 Test Device:
 Distance:
 Humidity:
 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



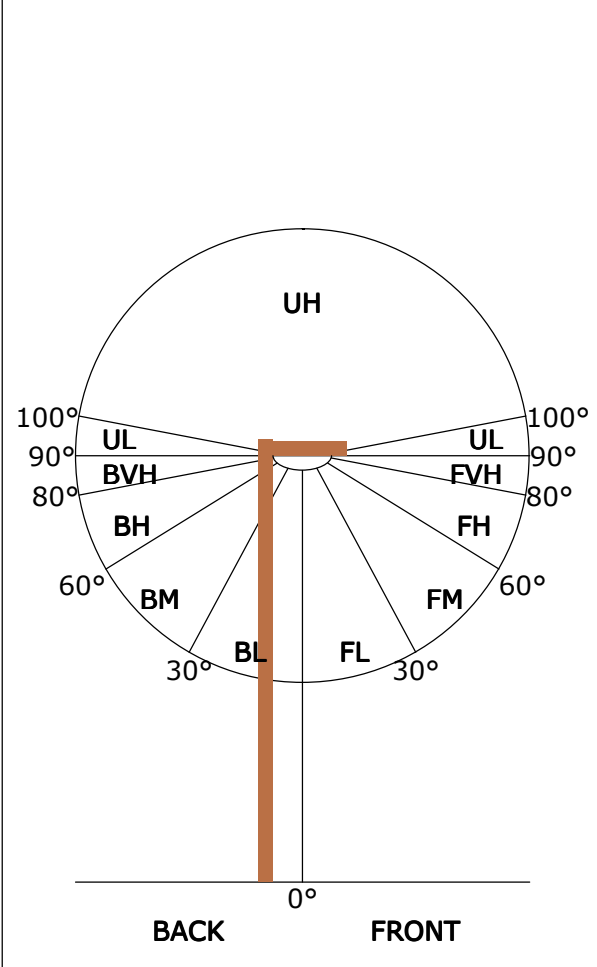
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1099.7 lx

| | |
|--------------------|--------------------|
| — (1%): 11.0 lx | — (2%): 22.0 lx |
| — (5%): 55.0 lx | — (10%): 110.0 lx |
| — (20%): 219.9 lx | — (50%): 549.8 lx |
| — (100%):1099.7 lx | |

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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

| | ZONE | LUMENS | % LAMP LUMENS |
|--|----------------|--------|---------------|
|  | FORWARD LIGHT | 1756 | 45.5 |
| | FL (0°-30°) | 426 | 11.0 |
| | FM (30°-60°) | 838 | 21.7 |
| | FH (60°-80°) | 391 | 10.1 |
| | FVH (80°-90°) | 100 | 2.6 |
| | BACK LIGHT | 1839 | 47.6 |
| | BL (0°-30°) | 433 | 11.2 |
| | BM (30°-60°) | 872 | 22.6 |
| | BH (60°-80°) | 422 | 10.9 |
| | BVH (80°-90°) | 112 | 2.9 |
| | UP LIGHT | 265 | 6.9 |
| | UL (90°-100°) | 124 | 3.2 |
| | UH (100°-180°) | 141 | 3.6 |
| | TRAPPED LIGHT | 1 | 0.0 |

| BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07 | |
|--|----------|
| Asymmetrical Luminaire Types (Type I,II,III,IV) | B1 U3 G1 |
| Quadrilateral Symmetrical Luminaire Types (Type V,Area Light) | B1 U3 G1 |

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