

Tel:
Fax:

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Report No.:

Test Time: 2017-07-20 18:26

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 4000k
Luminous Width (mm): 130
Current: 0.118 A
Power Factor: 0.967

Luminaire Description: DLC0525-B840 38D
Luminous Length (mm): 130
Voltage: 219.9 V
Power: 25.20 W

Photometric Results

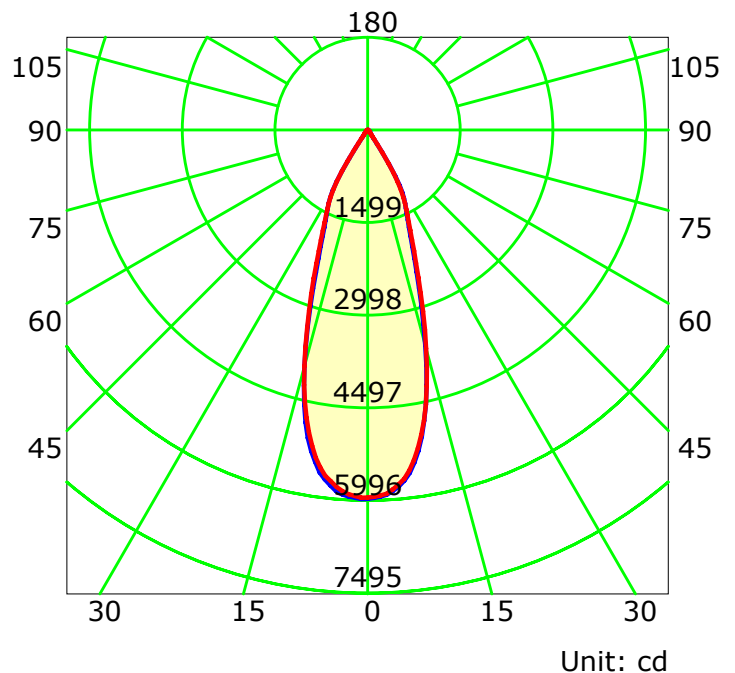
CIE Class: Direct
Measurement Flux: 2560.8 lm
Downward Ratio: 100%
Field Angle: H65.0 V65.3
Luminaire Efficacy Rating (LER): 102
Max. Intensity: 5971.78 cd

Total Rated Lamp Lumens: 2560.8 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H35.1 V35.7
Central Intensity: 5967.96 cd
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve

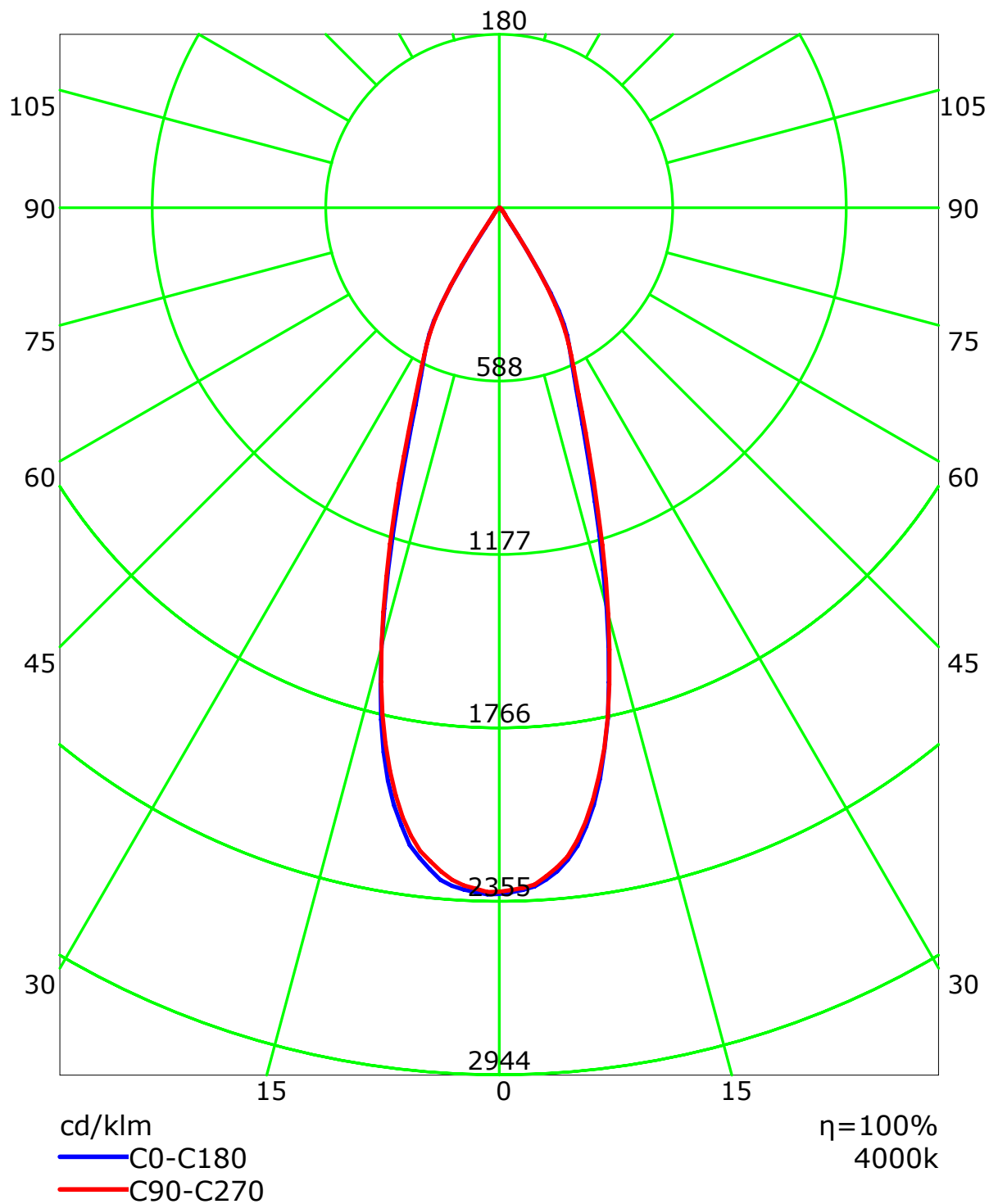


— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

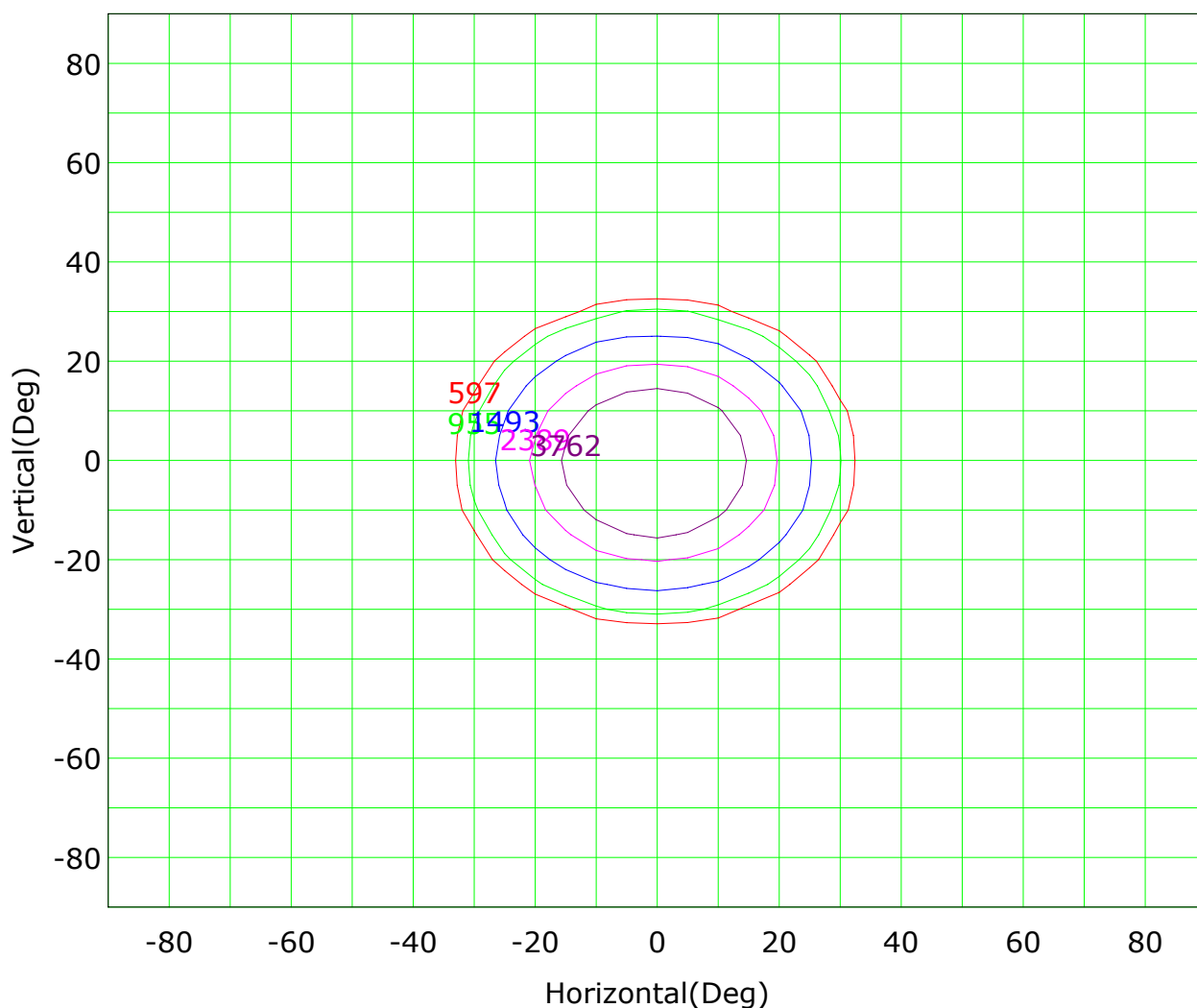
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

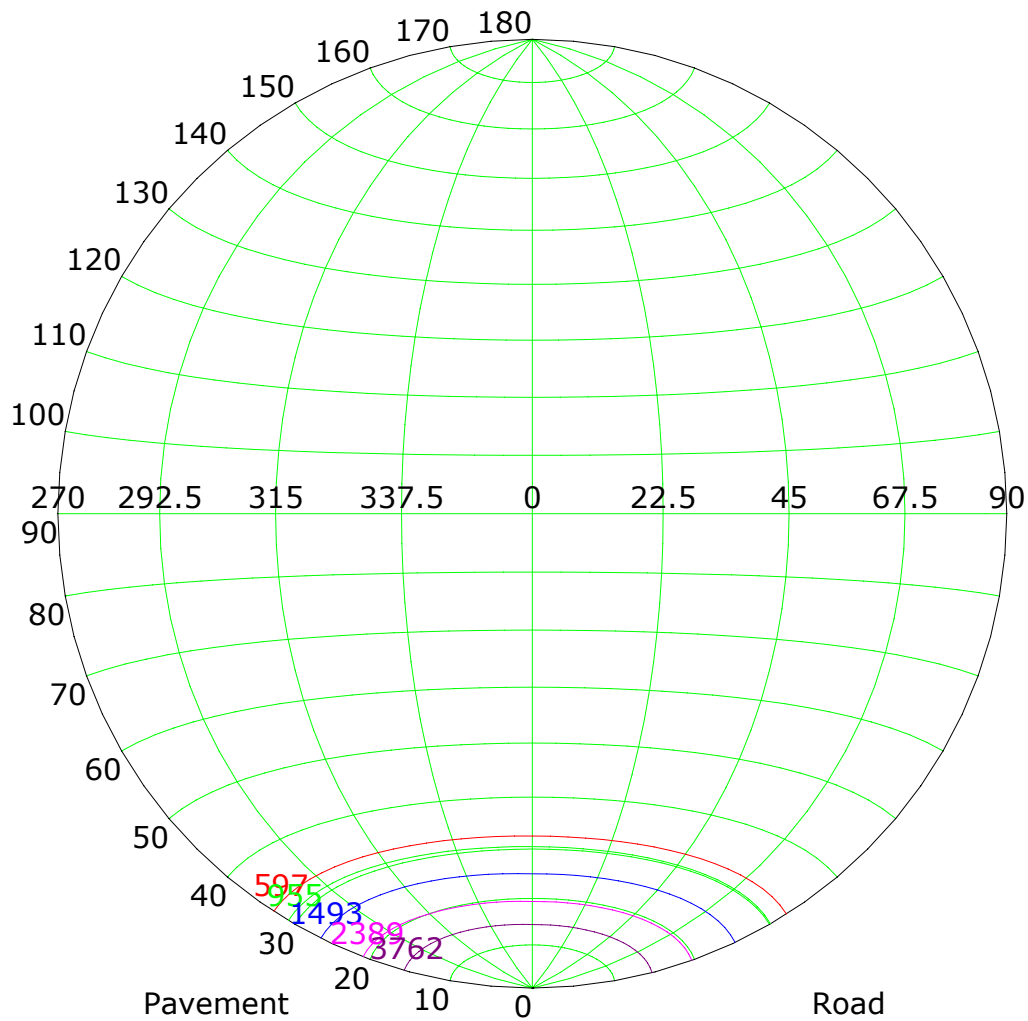
Isocandela (rectangle)



Imax (100%): 5972 cd

(10%): 597 cd	(16%): 955 cd
(25%): 1493 cd	(40%): 2389 cd
(63%): 3762 cd	(100%): 5972 cd

Isocandela (sphere)



Imax (100%): 5972 cd

(10%): 597 cd	(16%): 955 cd
(25%): 1493 cd	(40%): 2389 cd
(63%): 3762 cd	(100%): 5972 cd

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

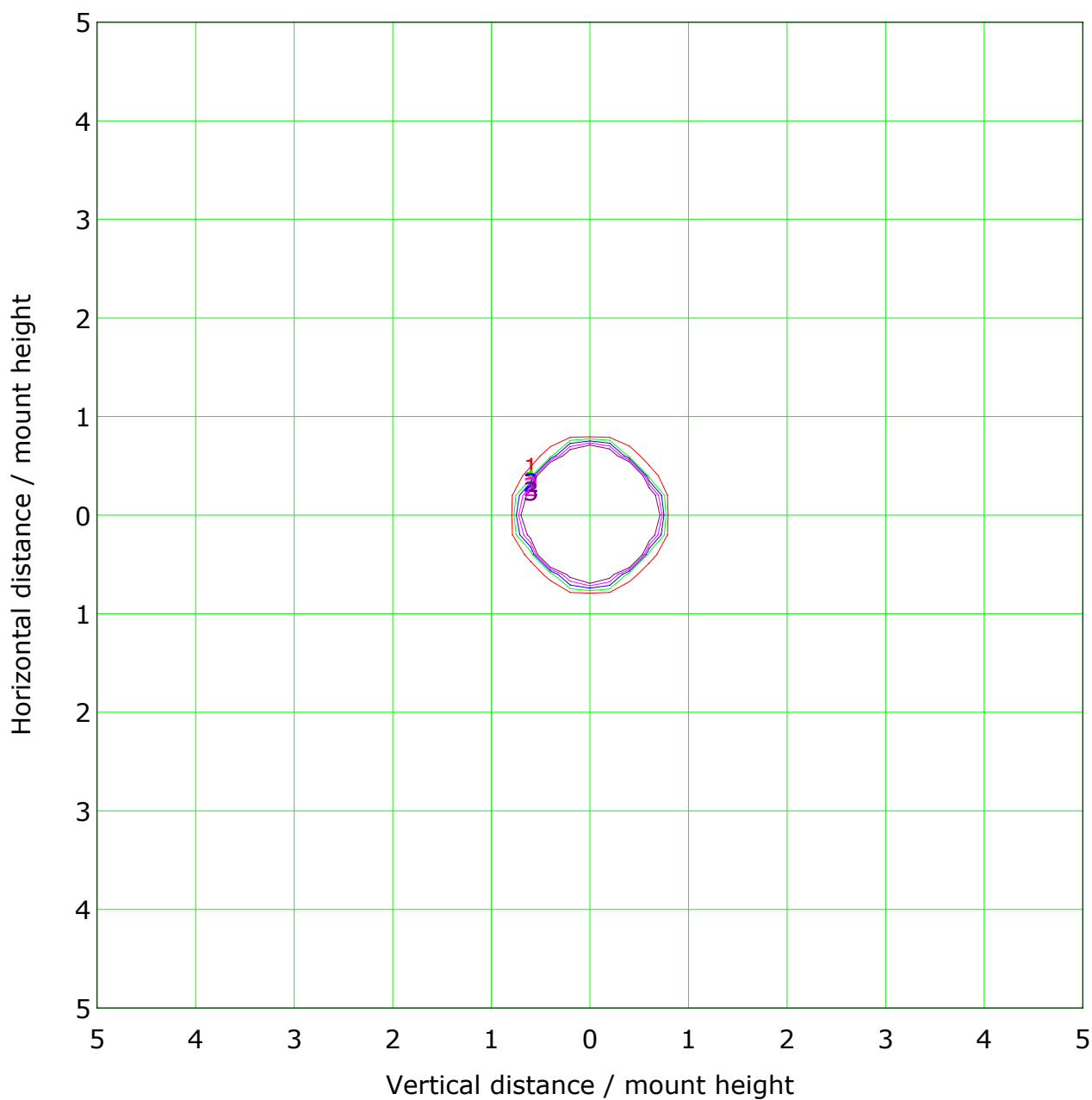
Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 59.7 lx

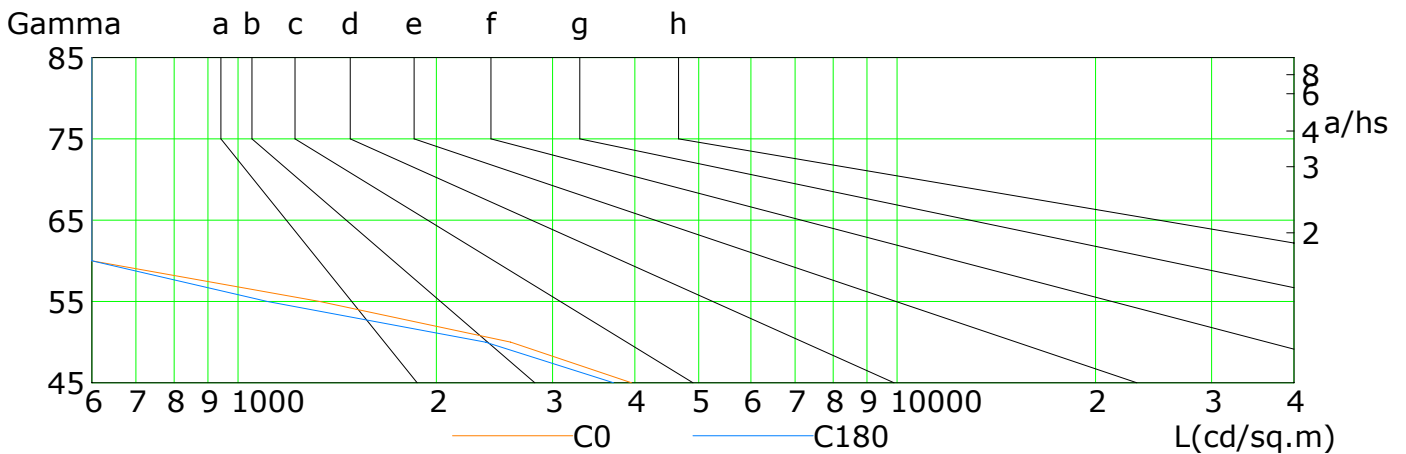
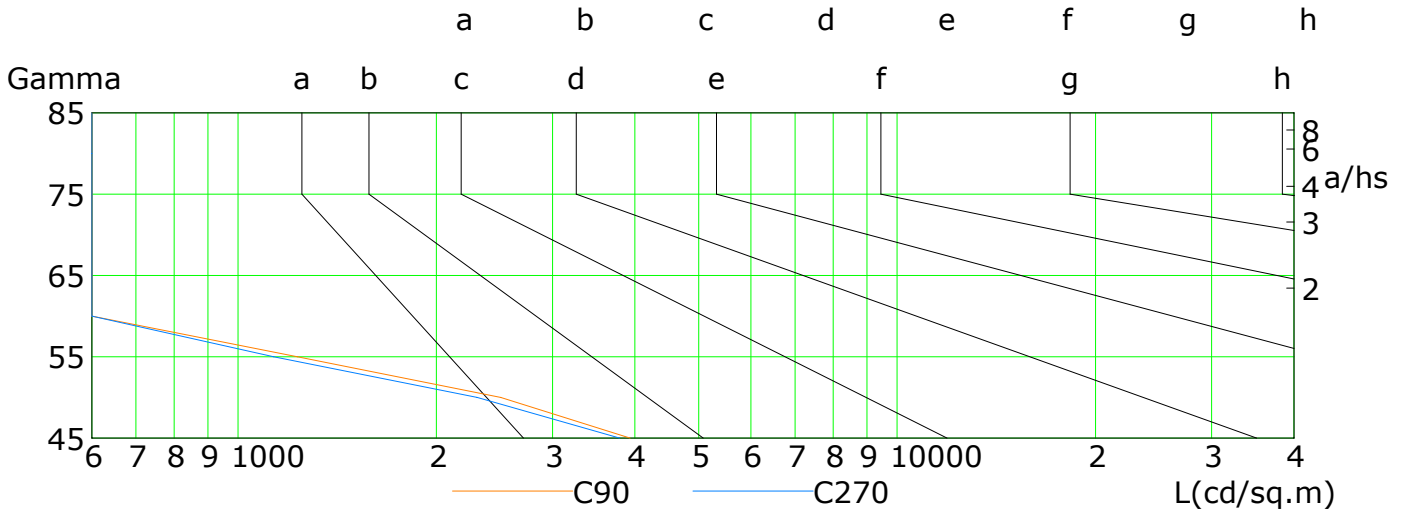
(1%): 0.6 lx	(2%): 1.2 lx
(3%): 1.8 lx	(4%): 2.4 lx
(5%): 3.0 lx	

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3954	2592	1330	0	0	0	0	0	0
C90	3934	2504	1231	0	0	0	0	0	0
C180	3714	2372	1108	0	0	0	0	0	0
C270	3794	2306	1133	0	0	0	0	0	0

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

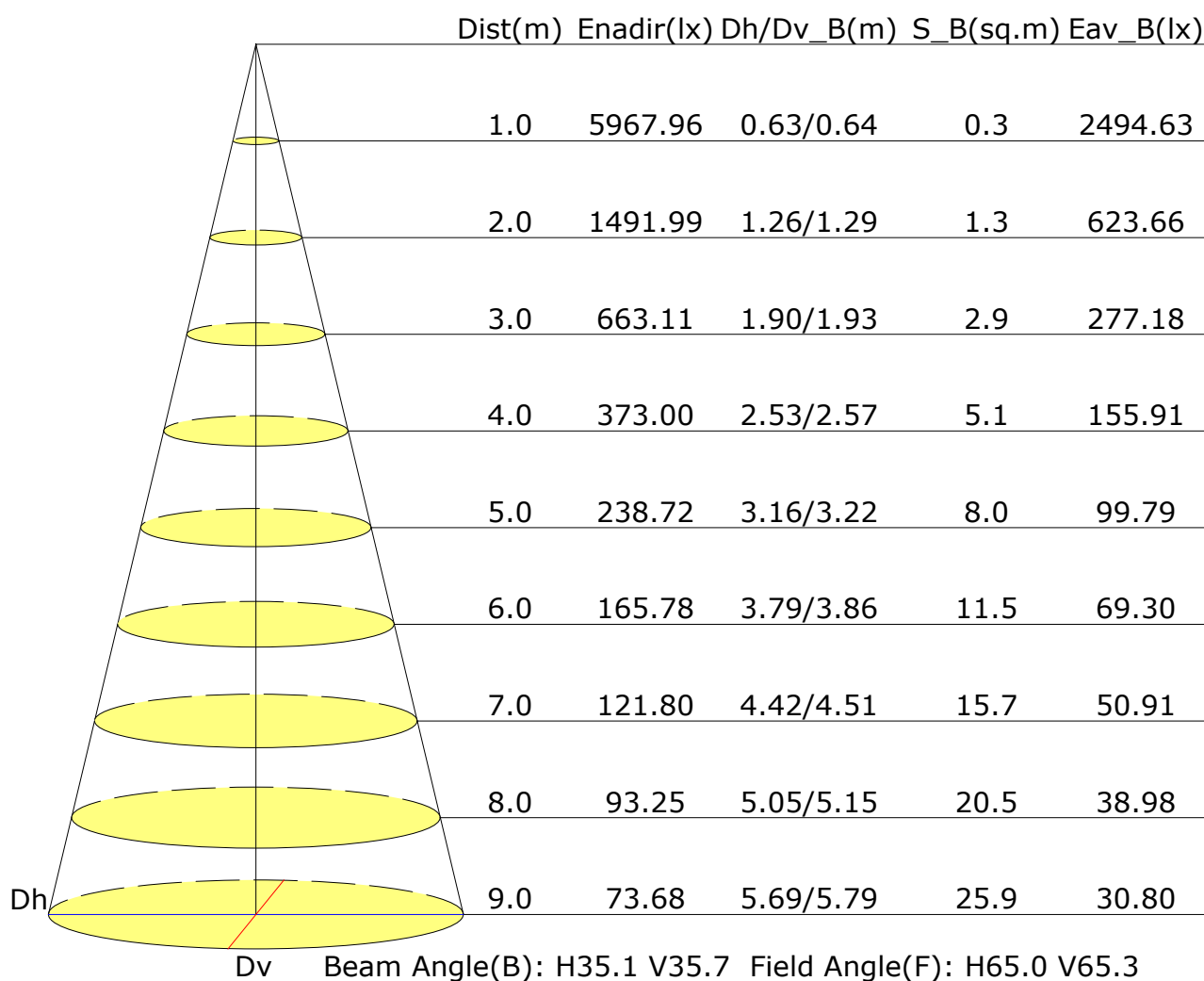
Humidity:

Inspector:

Tel:
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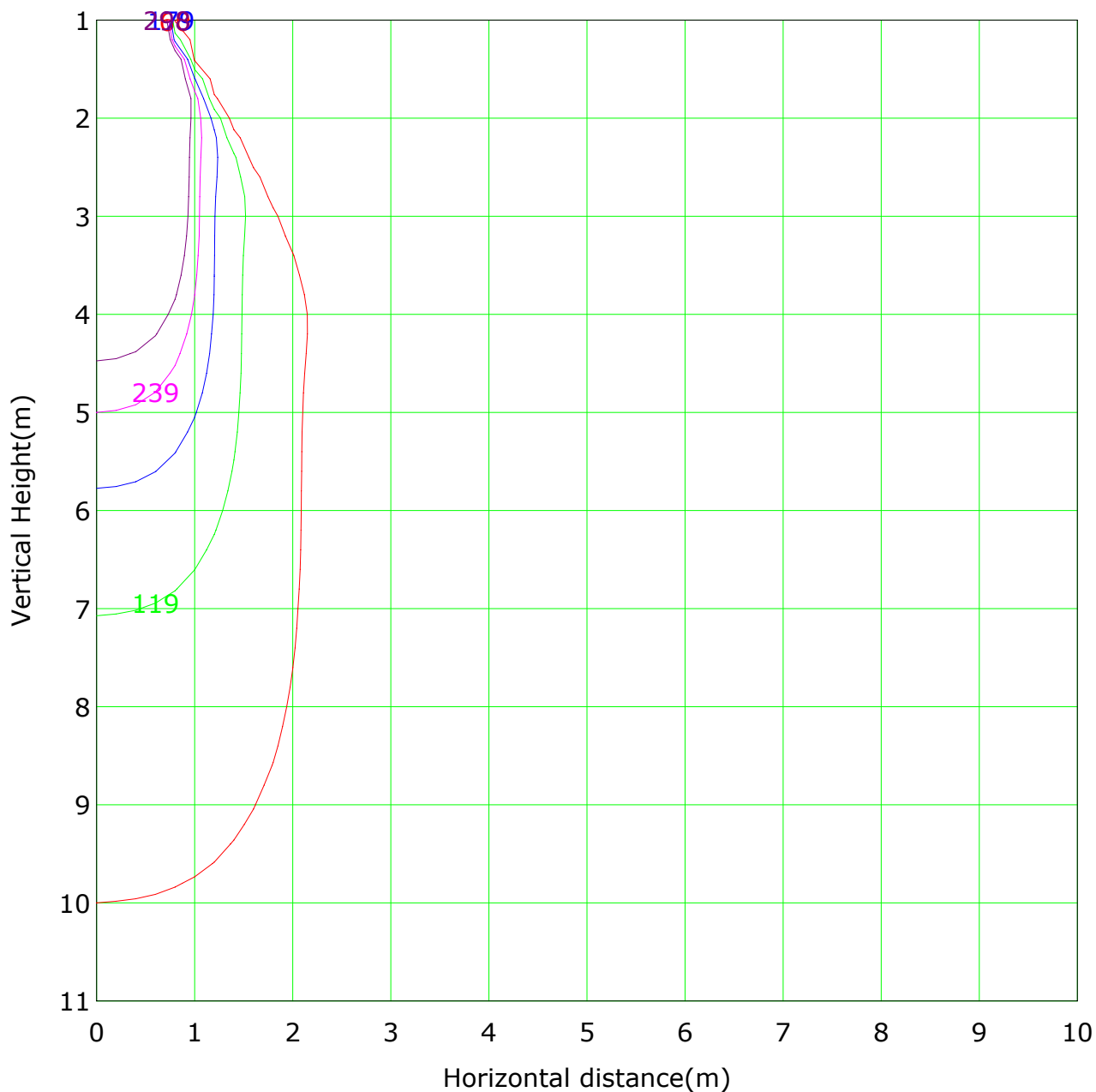
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

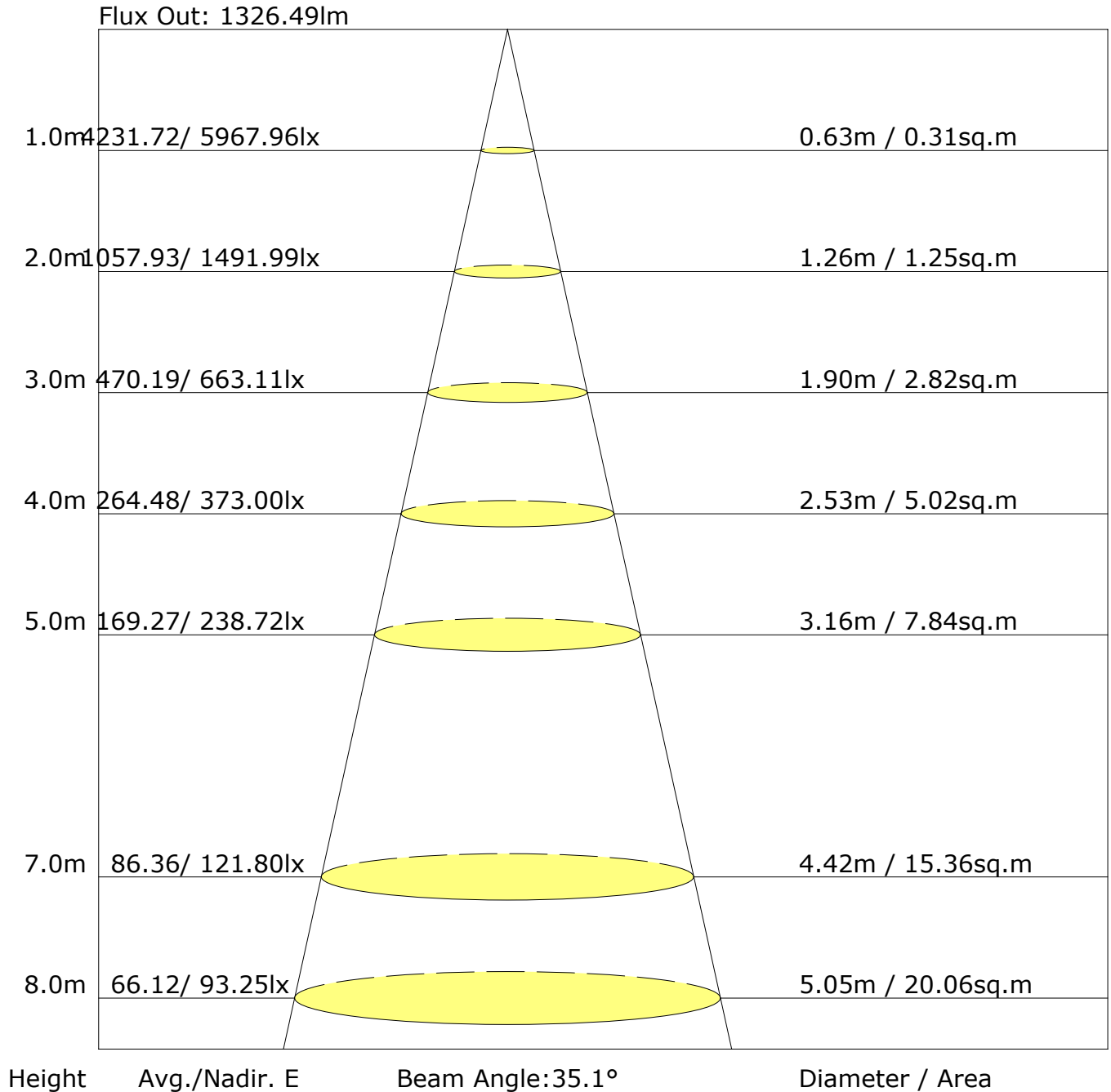
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5968.0 lx
— (1%): 59.7 lx — (2%): 119.4 lx
— (3%): 179.0 lx — (4%): 238.7 lx
— (5%): 298.4 lx

The Average Illuminance Effective Figure



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	-13.5	-12.6	-13.2	-12.3	-12.0	-14.7	-13.8	-14.3	-13.5	-13.2
3H	-13.8	-13.0	-13.4	-12.6	-12.3	-14.9	-14.1	-14.5	-13.8	-13.4
4H	-13.9	-13.1	-13.5	-12.8	-12.4	-15.0	-14.3	-14.6	-13.9	-13.5
6H	-14.0	-13.3	-13.6	-12.9	-12.5	-15.1	-14.5	-14.7	-14.1	-13.7
8H	-14.0	-13.4	-13.6	-13.0	-12.6	-15.2	-14.6	-14.8	-14.2	-13.8
12H	-14.1	-13.5	-13.7	-13.1	-12.7	-15.3	-14.7	-14.8	-14.3	-13.8
X=4H Y=2H	-13.9	-13.1	-13.5	-12.8	-12.4	-15.0	-14.3	-14.6	-13.9	-13.5
3H	-14.1	-13.5	-13.7	-13.1	-12.7	-15.2	-14.6	-14.8	-14.2	-13.8
4H	-14.2	-13.7	-13.8	-13.3	-12.8	-15.4	-14.8	-14.9	-14.4	-14.0
6H	-14.3	-13.9	-13.9	-13.4	-13.0	-15.5	-15.0	-15.0	-14.6	-14.1
8H	-14.4	-14.0	-13.9	-13.5	-13.1	-15.6	-15.2	-15.1	-14.7	-14.2
12H	-14.5	-14.1	-14.0	-13.6	-13.2	-15.6	-15.3	-15.1	-14.8	-14.3
X=8H Y=4H	-14.4	-14.0	-13.9	-13.5	-13.1	-15.6	-15.2	-15.1	-14.7	-14.2
6H	-14.5	-14.2	-14.0	-13.7	-13.2	-15.7	-15.4	-15.2	-14.9	-14.4
8H	-14.6	-14.3	-14.1	-13.8	-13.3	-15.8	-15.5	-15.2	-15.0	-14.5
12H	-14.7	-14.4	-14.2	-13.9	-13.4	-15.8	-15.6	-15.3	-15.1	-14.5
X=12H Y=4H	-14.5	-14.1	-14.0	-13.6	-13.2	-15.6	-15.3	-15.1	-14.8	-14.3
6H	-14.6	-14.3	-14.1	-13.9	-13.3	-15.8	-15.5	-15.2	-15.0	-14.5
8H	-14.7	-14.4	-14.2	-13.9	-13.4	-15.8	-15.6	-15.3	-15.1	-14.5

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	5955.7	5.7	5.7	0.22	0.22
1.0-2.0	5943.4	17.1	22.8	0.67	0.89
2.0-3.0	5922.3	28.3	51.1	1.11	1.99
3.0-4.0	5887.5	39.4	90.5	1.54	3.53
4.0-5.0	5833.9	50.2	140.7	1.96	5.49
5.0-6.0	5761.3	60.6	201.3	2.36	7.86
6.0-7.0	5668.2	70.4	271.6	2.75	10.61
7.0-8.0	5551.3	79.5	351.1	3.10	13.71
8.0-9.0	5402.1	87.6	438.6	3.42	17.13
9.0-10.0	5223.5	94.5	533.2	3.69	20.82
10.0-11.0	5019.3	100.3	633.5	3.92	24.74
11.0-12.0	4790.2	104.7	738.2	4.09	28.83
12.0-13.0	4532.3	107.6	845.8	4.20	33.03
13.0-14.0	4248.1	108.8	954.5	4.25	37.27
14.0-15.0	3948.4	108.4	1062.9	4.23	41.51
15.0-16.0	3638.2	106.6	1169.6	4.16	45.67
16.0-17.0	3330.7	103.7	1273.3	4.05	49.72
17.0-18.0	3032.6	100.0	1373.3	3.91	53.63
18.0-19.0	2751.5	95.7	1469.0	3.74	57.37
19.0-20.0	2497.4	91.4	1560.5	3.57	60.94
20.0-21.0	2270.1	87.2	1647.6	3.40	64.34
21.0-22.0	2071.6	83.3	1730.9	3.25	67.59
22.0-23.0	1899.4	79.7	1810.6	3.11	70.70
23.0-24.0	1753.3	76.7	1887.3	2.99	73.70
24.0-25.0	1629.7	74.1	1961.4	2.89	76.59
25.0-26.0	1522.6	71.9	2033.3	2.81	79.40
26.0-27.0	1427.7	69.9	2103.1	2.73	82.13
27.0-28.0	1337.0	67.7	2170.8	2.64	84.77
28.0-29.0	1241.5	65.0	2235.8	2.54	87.31
29.0-30.0	1129.8	61.0	2296.8	2.38	89.69
30.0-31.0	988.5	55.0	2351.8	2.15	91.84
31.0-32.0	812.5	46.6	2398.4	1.82	93.66
32.0-33.0	611.1	36.0	2434.4	1.41	95.06
33.0-34.0	417.3	25.3	2459.6	0.99	96.05
34.0-35.0	269.1	16.7	2476.3	0.65	96.70
35.0-36.0	176.4	11.2	2487.6	0.44	97.14

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

Tel:
Fax:

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Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	126.9	8.3	2495.9	0.32	97.46
37.0-38.0	102.6	6.8	2502.7	0.27	97.73
38.0-39.0	89.0	6.1	2508.8	0.24	97.97
39.0-40.0	79.4	5.5	2514.3	0.22	98.18
40.0-41.0	71.7	5.1	2519.4	0.20	98.38
41.0-42.0	64.7	4.7	2524.1	0.18	98.57
42.0-43.0	58.8	4.4	2528.5	0.17	98.74
43.0-44.0	53.3	4.0	2532.5	0.16	98.89
44.0-45.0	48.3	3.7	2536.2	0.14	99.04
45.0-46.0	43.8	3.4	2539.7	0.13	99.17
46.0-47.0	39.7	3.2	2542.8	0.12	99.30
47.0-48.0	35.6	2.9	2545.7	0.11	99.41
48.0-49.0	31.8	2.6	2548.3	0.10	99.51
49.0-50.0	28.3	2.4	2550.7	0.09	99.60
50.0-51.0	25.1	2.1	2552.8	0.08	99.69
51.0-52.0	21.8	1.9	2554.7	0.07	99.76
52.0-53.0	18.8	1.6	2556.3	0.06	99.82
53.0-54.0	16.1	1.4	2557.7	0.06	99.88
54.0-55.0	13.2	1.2	2558.9	0.05	99.92
55.0-56.0	10.1	0.9	2559.8	0.04	99.96
56.0-57.0	7.0	0.6	2560.4	0.03	99.98
57.0-58.0	3.6	0.3	2560.8	0.01	100.00
58.0-59.0	0.8	0.1	2560.8	0.00	100.00
59.0-60.0	0.0	0.0	2560.8	0.00	100.00
60.0-61.0	0.0	0.0	2560.8	0.00	100.00
61.0-62.0	0.0	0.0	2560.8	0.00	100.00
62.0-63.0	0.0	0.0	2560.8	0.00	100.00
63.0-64.0	0.0	0.0	2560.8	0.00	100.00
64.0-65.0	0.0	0.0	2560.8	0.00	100.00
65.0-66.0	0.0	0.0	2560.8	0.00	100.00
66.0-67.0	0.0	0.0	2560.8	0.00	100.00
67.0-68.0	0.0	0.0	2560.8	0.00	100.00
68.0-69.0	0.0	0.0	2560.8	0.00	100.00
69.0-70.0	0.0	0.0	2560.8	0.00	100.00
70.0-71.0	0.0	0.0	2560.8	0.00	100.00
71.0-72.0	0.0	0.0	2560.8	0.00	100.00

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

Tel:
Fax:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Tel:
Fax:

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Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	5968.0	5948.9	5968.0	5948.9	5968.0					
G1.0	5953.4	5935.0	5971.8	5951.5	5953.4					
G2.0	5935.8	5919.3	5955.3	5924.8	5935.8					
G3.0	5909.5	5894.0	5937.4	5902.1	5909.5					
G4.0	5856.8	5829.8	5911.2	5859.6	5856.8					
G5.0	5792.1	5758.2	5867.7	5795.4	5792.1					
G6.0	5702.1	5674.5	5783.5	5716.5	5702.1					
G7.0	5590.2	5546.6	5695.2	5636.8	5590.2					
G8.0	5434.7	5393.6	5597.1	5515.8	5434.7					
G9.0	5257.1	5211.6	5438.7	5368.3	5257.1					
G10.0	5042.1	5008.0	5275.3	5187.2	5042.1					
G11.0	4794.2	4787.1	5076.5	4984.2	4794.2					
G12.0	4541.8	4535.3	4840.8	4761.5	4541.8					
G13.0	4235.4	4255.7	4569.0	4519.1	4235.4					
G14.0	3927.8	3960.5	4268.1	4249.2	3927.8					
G15.0	3607.8	3661.1	3956.4	3956.0	3607.8					
G16.0	3274.3	3363.5	3627.6	3658.9	3274.3					
G17.0	2985.8	3068.1	3313.6	3353.5	2985.8					
G18.0	2689.9	2774.8	3001.5	3073.6	2689.9					
G19.0	2434.8	2524.8	2713.3	2799.6	2434.8					
G20.0	2210.8	2293.3	2450.1	2552.7	2210.8					
G21.0	2019.9	2096.2	2223.4	2314.3	2019.9					
G22.0	1854.5	1920.4	2032.8	2111.0	1854.5					
G23.0	1714.7	1762.9	1863.8	1935.4	1714.7					
G24.0	1597.8	1638.8	1729.0	1783.9	1597.8					
G25.0	1497.1	1527.1	1612.6	1651.2	1497.1					
G26.0	1412.3	1427.4	1515.9	1536.9	1412.3					
G27.0	1335.0	1329.3	1430.5	1434.5	1335.0					
G28.0	1255.3	1227.4	1342.4	1341.5	1255.3					
G29.0	1163.0	1112.2	1252.7	1237.2	1163.0					
G30.0	1039.9	977.4	1138.4	1117.7	1039.9					
G31.0	868.1	819.9	977.8	968.5	868.1					
G32.0	651.4	638.8	779.3	796.0	651.4					
G33.0	431.2	449.1	544.5	598.9	431.2					
G34.0	267.3	294.7	346.0	406.6	267.3					
G35.0	174.7	191.4	211.6	260.8	174.7					
G36.0	126.7	134.3	143.6	168.2	126.7					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

Tel:
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Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	105.7	107.8	110.7	118.1	105.7					
G38.0	92.3	94.3	94.5	97.1	92.3					
G39.0	83.8	83.8	82.8	83.3	83.8					
G40.0	75.6	75.9	75.2	75.2	75.6					
G41.0	69.0	68.7	67.1	67.1	69.0					
G42.0	62.3	61.3	61.3	60.8	62.3					
G43.0	57.3	56.8	54.6	55.8	57.3					
G44.0	52.0	50.6	50.3	49.2	52.0					
G45.0	47.3	47.0	44.4	45.3	47.3					
G46.0	43.0	42.7	40.1	41.0	43.0					
G47.0	38.7	38.4	36.8	37.0	38.7					
G48.0	34.6	34.1	33.2	32.0	34.6					
G49.0	32.2	31.0	28.2	29.1	32.2					
G50.0	28.2	27.2	25.8	25.0	28.2					
G51.0	25.3	24.3	22.4	22.2	25.3					
G52.0	21.2	20.8	18.9	19.3	21.2					
G53.0	19.3	17.7	16.5	16.5	19.3					
G54.0	16.5	15.3	13.1	13.8	16.5					
G55.0	12.9	11.9	10.7	11.0	12.9					
G56.0	8.8	8.1	8.4	8.6	8.8					
G57.0	5.7	4.8	6.0	6.0	5.7					
G58.0	0.2	0.0	3.1	3.1	0.2					
G59.0	0.0	0.0	0.0	0.0	0.0					
G60.0	0.0	0.0	0.0	0.0	0.0					
G61.0	0.0	0.0	0.0	0.0	0.0					
G62.0	0.0	0.0	0.0	0.0	0.0					
G63.0	0.0	0.0	0.0	0.0	0.0					
G64.0	0.0	0.0	0.0	0.0	0.0					
G65.0	0.0	0.0	0.0	0.0	0.0					
G66.0	0.0	0.0	0.0	0.0	0.0					
G67.0	0.0	0.0	0.0	0.0	0.0					
G68.0	0.0	0.0	0.0	0.0	0.0					
G69.0	0.0	0.0	0.0	0.0	0.0					
G70.0	0.0	0.0	0.0	0.0	0.0					
G71.0	0.0	0.0	0.0	0.0	0.0					
G72.0	0.0	0.0	0.0	0.0	0.0					
G73.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

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Unit: cd

[illegible]

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector: