

Tel:
Fax:

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Report No.:

Test Time: 2017-07-27 11:19

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 4000k
Luminous Length (mm): 130
Voltage: 219.8 V
Power: 54.10 W

Luminaire Description: DLC0555-B840 15D
Lamp Description: T120840M2
Luminous Width (mm): 130
Current: 0.305 A
Power Factor: 0.803

Photometric Results

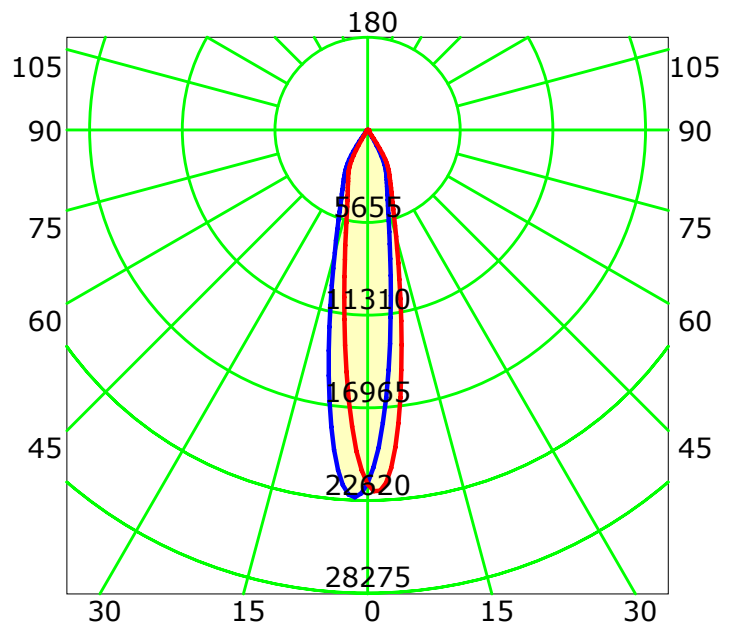
CIE Class: Direct
Measurement Flux: 5059.1 lm
Downward Ratio: 100%
Field Angle: H58.4 V58.3
Luminaire Efficacy Rating (LER): 94
Max. Intensity: 22438.25 cd

Total Rated Lamp Lumens: 5059.1 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H19.4 V18.2
Central Intensity: 21561.59 cd
Pos of Max. Intensity: H180 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

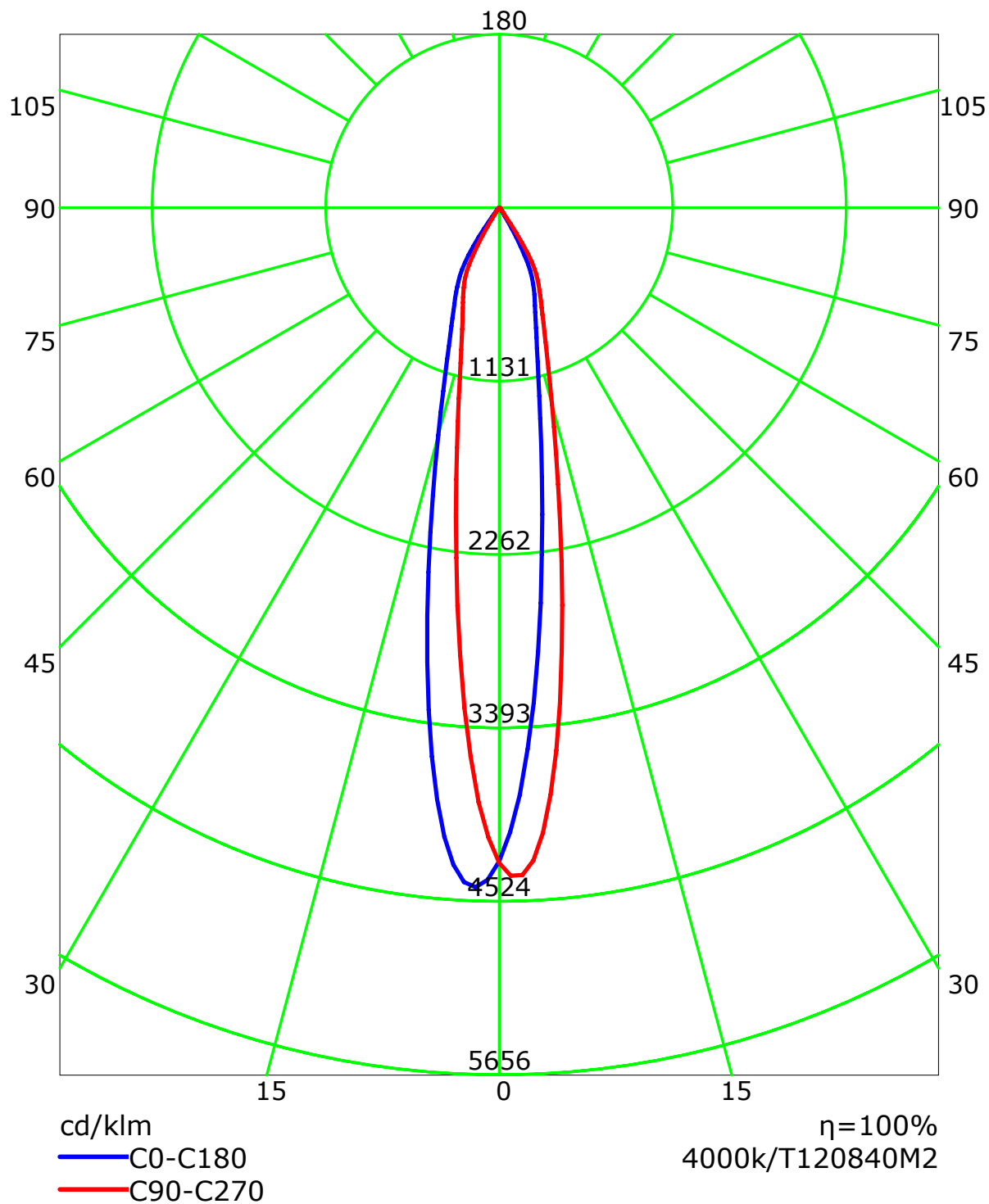
Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

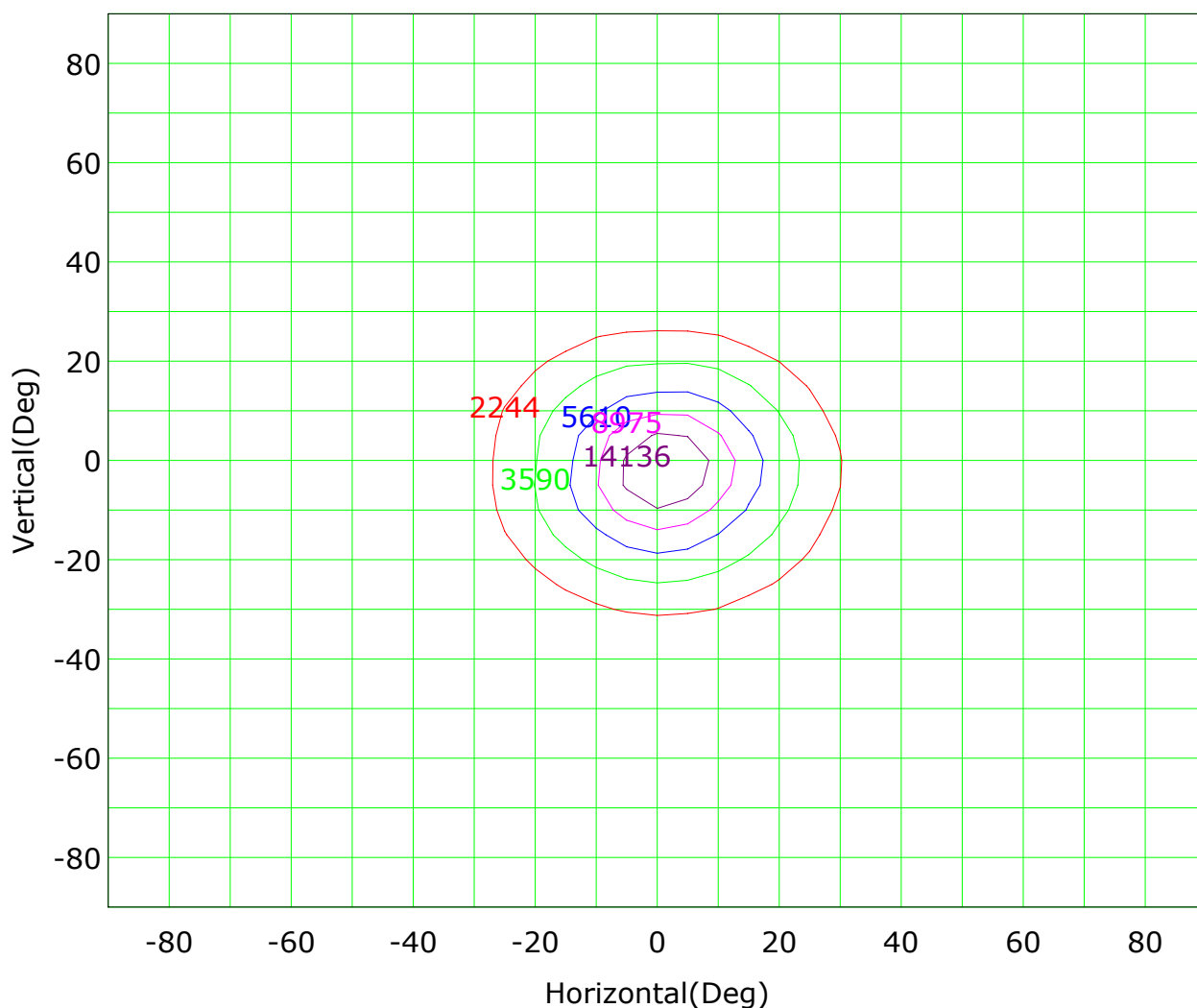
Luminous Intensity Distribution Curve(cd/klm)



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:

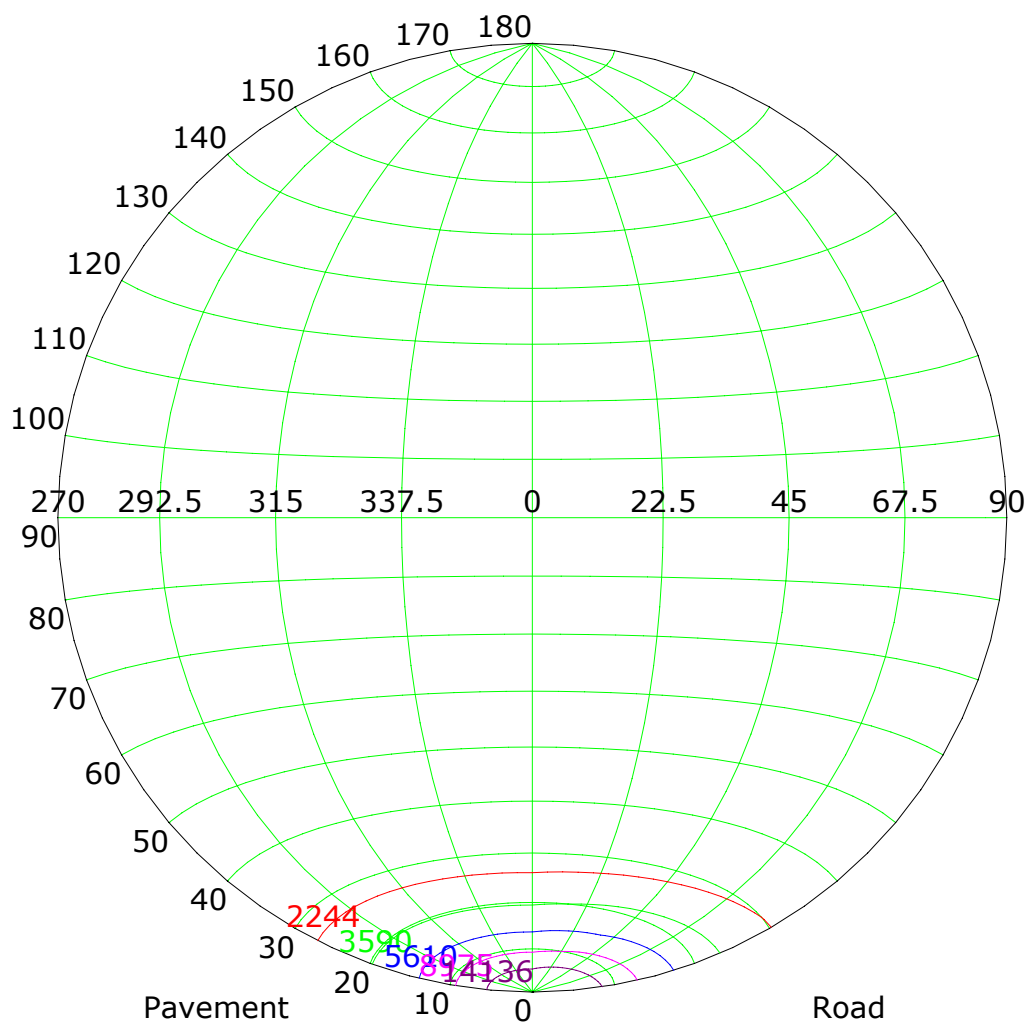
Isocandela (rectangle)



Imax (100%): 22438 cd

(10%): 2244 cd	(16%): 3590 cd
(25%): 5610 cd	(40%): 8975 cd
(63%): 14136 cd	(100%): 22438 cd

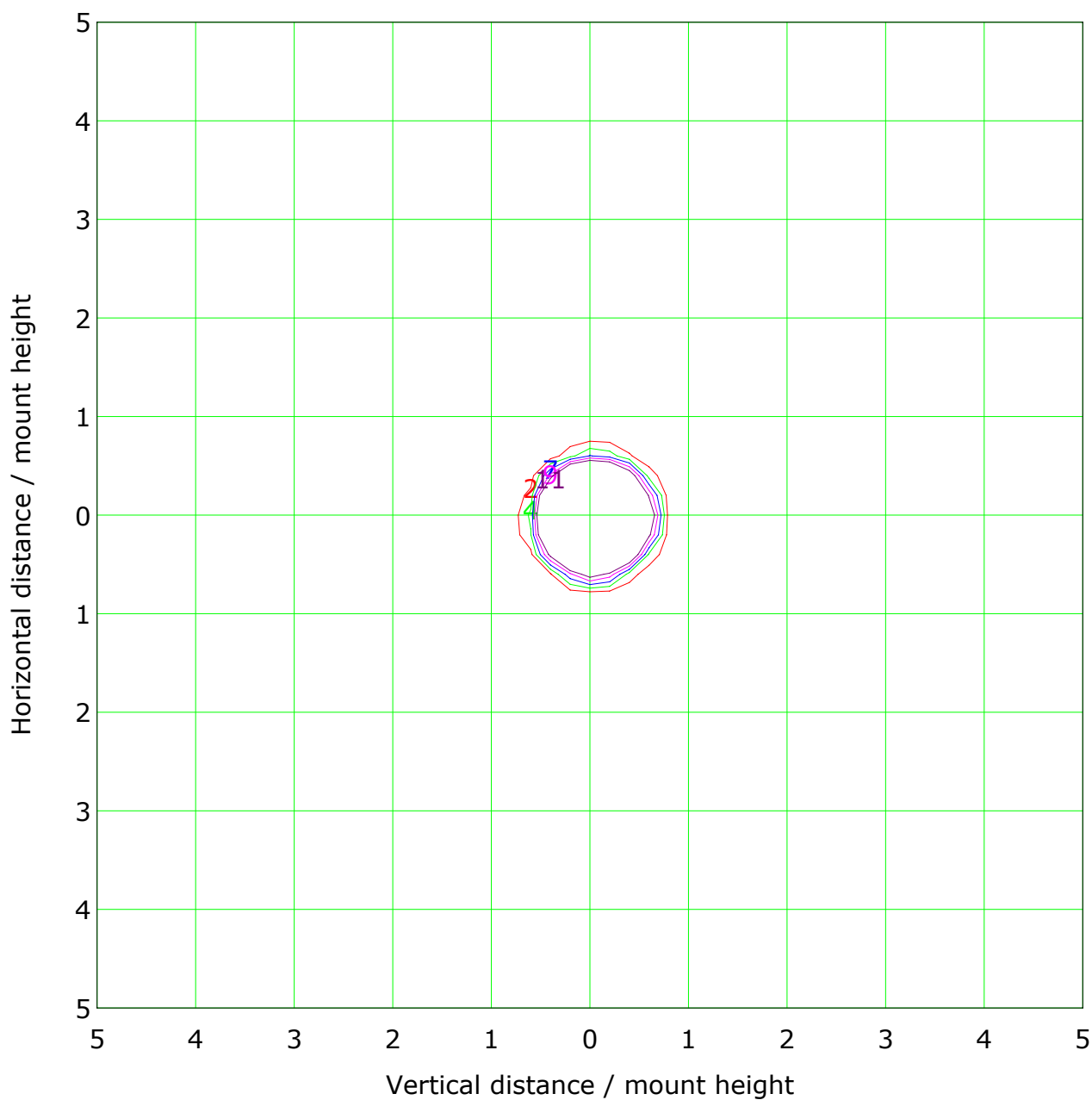
Isocandela (sphere)



Imax (100%): 22438 cd

(10%): 2244 cd	(16%): 3590 cd
(25%): 5610 cd	(40%): 8975 cd
(63%): 14136 cd	(100%): 22438 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 224.0 lx

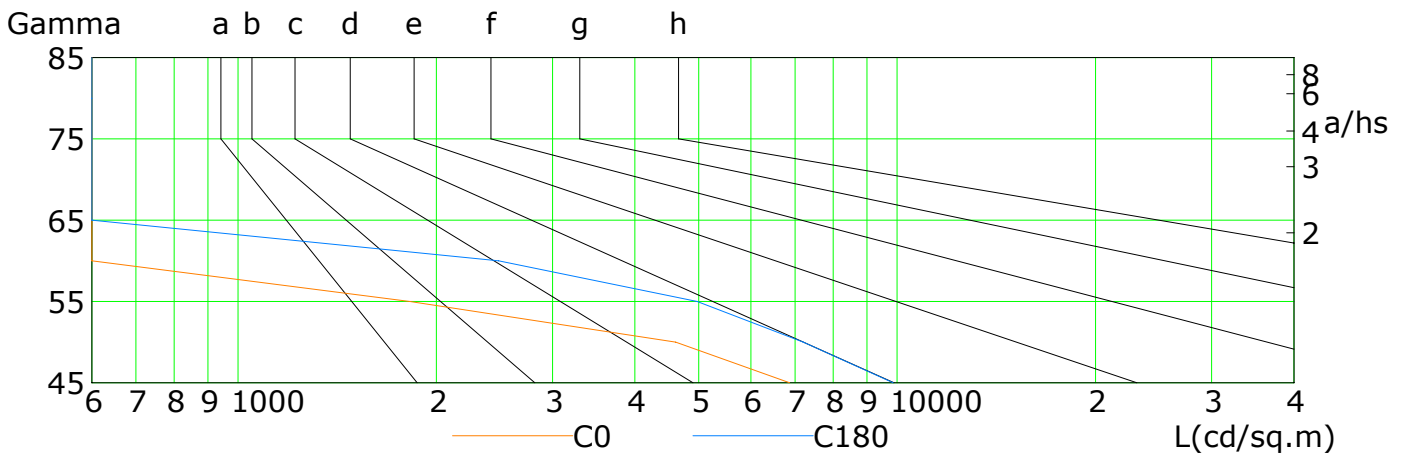
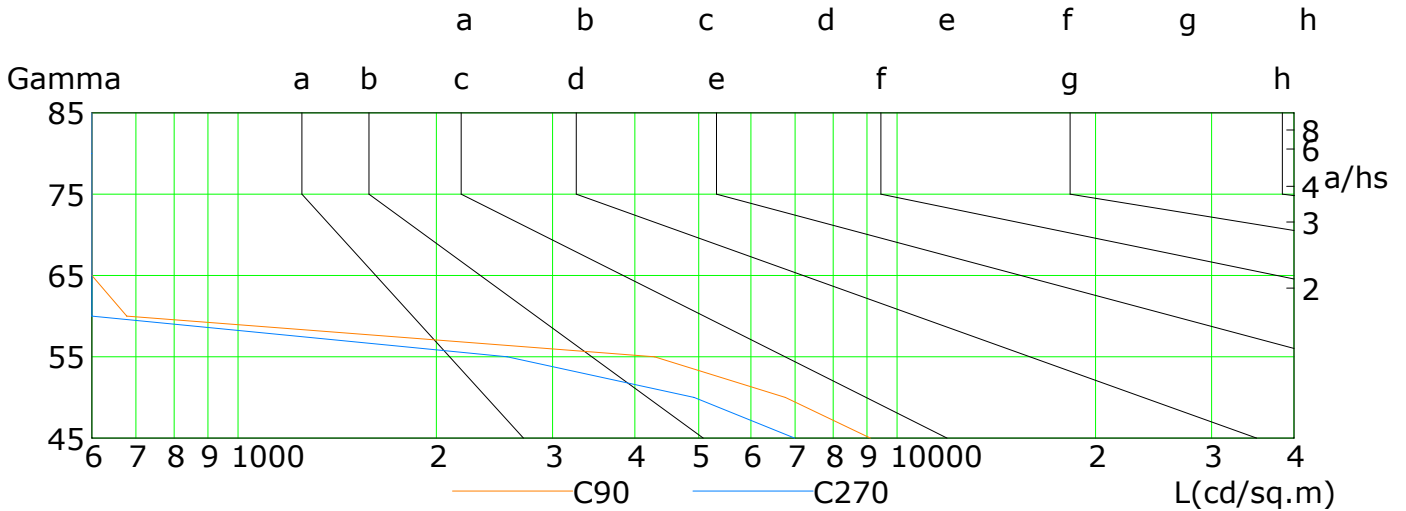
— (1%): 2.2 lx	— (2%): 4.5 lx
— (3%): 6.7 lx	— (4%): 9.0 lx
— (5%): 11.2 lx	

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	6869	4613	1822	0	0	0	0	0	0
C90	9105	6765	4283	678	0	0	0	0	0
C180	9864	7205	4972	2485	0	0	0	0	0
C270	6988	4920	2560	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

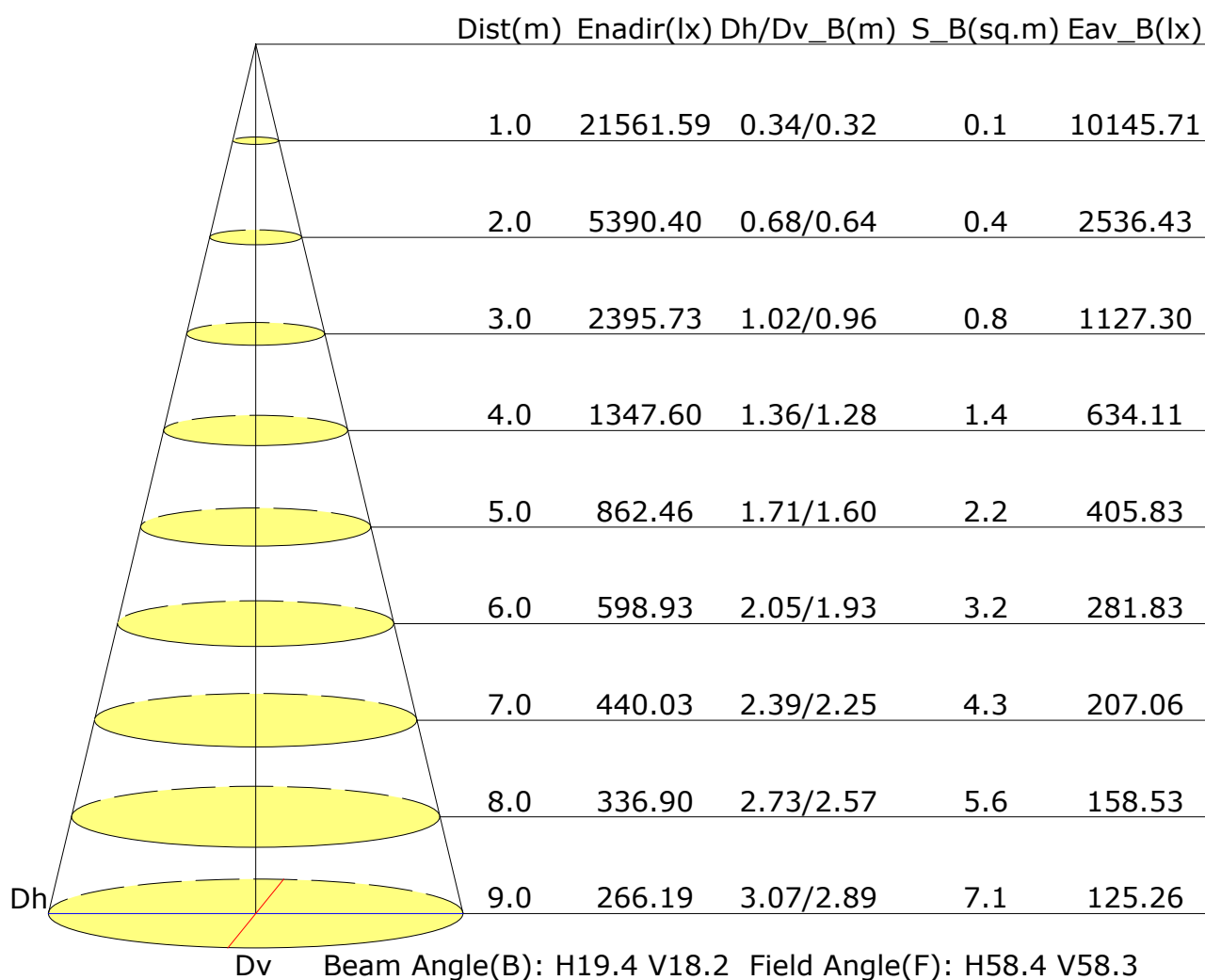
Humidity:

Inspector:

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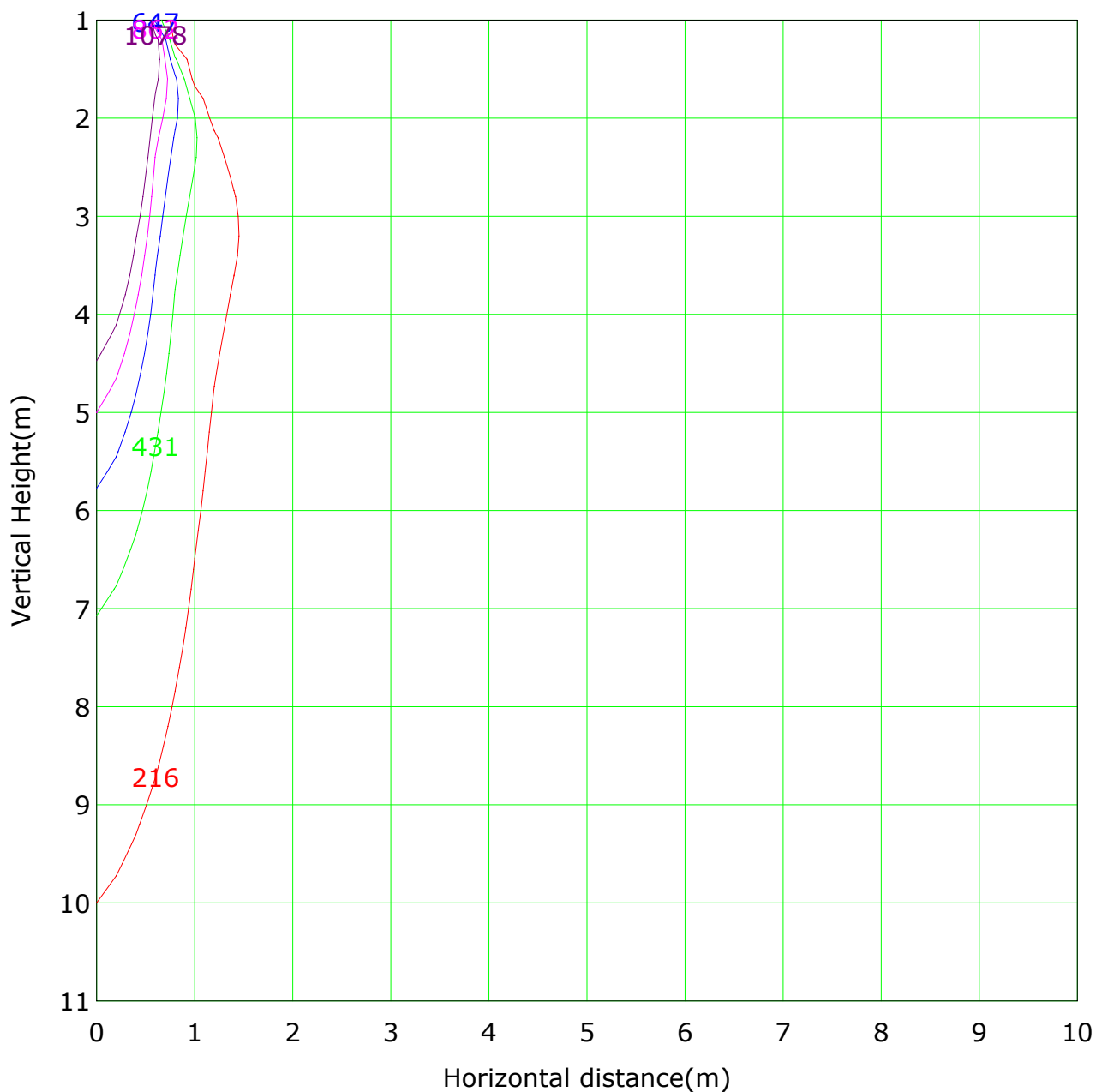
Illuminance at a Distance



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

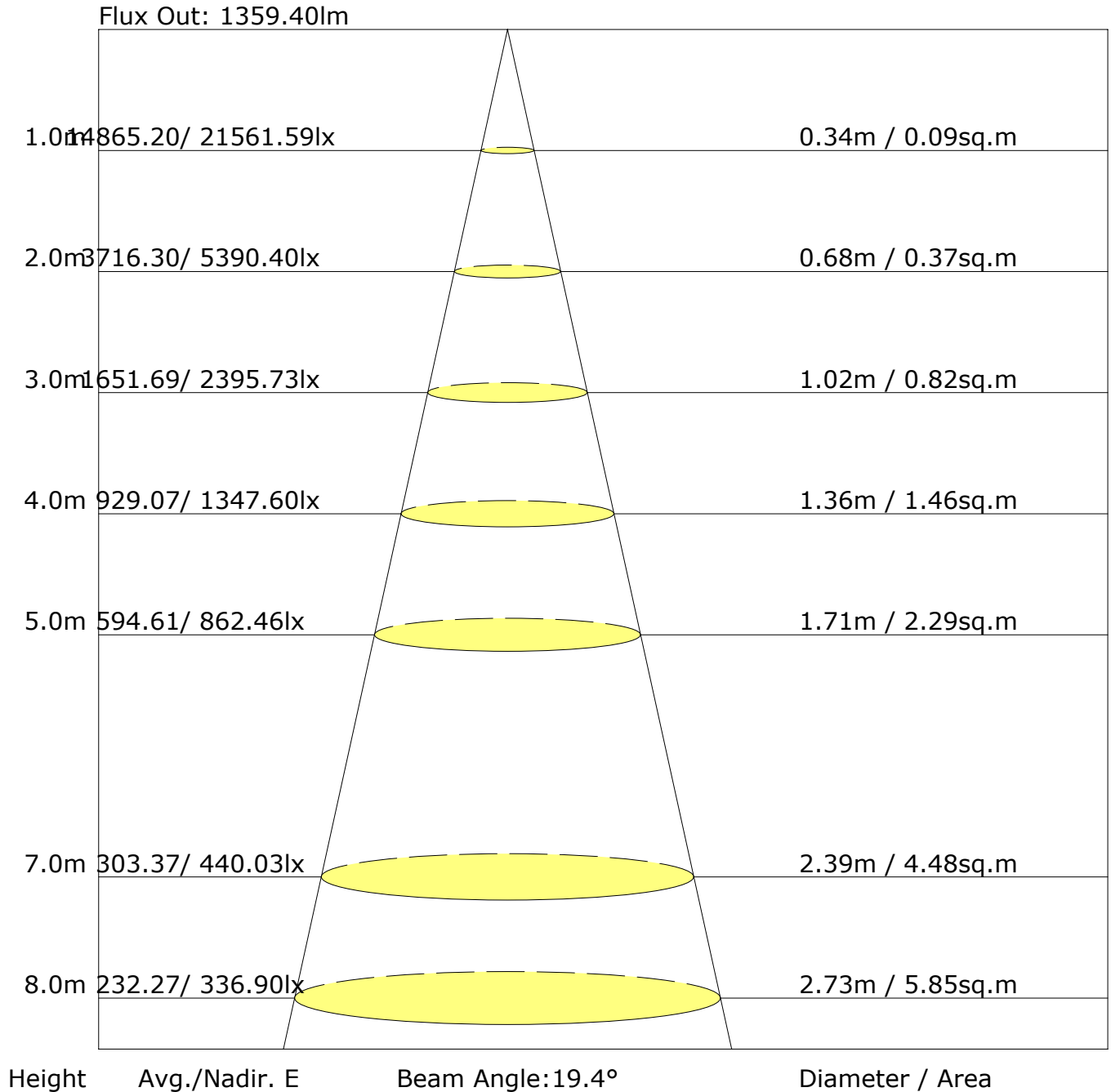


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 21561.6 lx

(1%): 215.6 lx
(3%): 646.8 lx
(5%): 1078.1 lx

(2%): 431.2 lx
(4%): 862.5 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	-11.4	-10.5	-11.0	-10.2	-9.9	-1.3	-0.4	-1.0	-0.1	0.2	
3H	-11.6	-10.8	-11.2	-10.5	-10.1	-1.6	-0.8	-1.2	-0.4	-0.1	
4H	-11.7	-11.0	-11.3	-10.6	-10.2	-1.7	-0.9	-1.3	-0.6	-0.2	
6H	-11.8	-11.2	-11.4	-10.8	-10.4	-1.8	-1.1	-1.4	-0.7	-0.3	
8H	-11.9	-11.3	-11.4	-10.9	-10.5	-1.8	-1.2	-1.4	-0.8	-0.4	
12H	-12.0	-11.4	-11.5	-11.0	-10.5	-1.9	-1.3	-1.5	-0.9	-0.5	
X=4H Y=2H	-11.7	-11.0	-11.3	-10.6	-10.2	-1.7	-0.9	-1.3	-0.6	-0.2	
3H	-11.9	-11.3	-11.5	-10.9	-10.5	-1.9	-1.3	-1.5	-0.9	-0.5	
4H	-12.1	-11.5	-11.6	-11.1	-10.7	-2.0	-1.5	-1.6	-1.1	-0.6	
6H	-12.2	-11.7	-11.7	-11.3	-10.8	-2.1	-1.7	-1.7	-1.2	-0.8	
8H	-12.3	-11.8	-11.8	-11.4	-10.9	-2.2	-1.8	-1.7	-1.3	-0.9	
12H	-12.3	-12.0	-11.8	-11.5	-11.0	-2.3	-1.9	-1.8	-1.4	-1.0	
X=8H Y=4H	-12.3	-11.8	-11.8	-11.4	-10.9	-2.2	-1.8	-1.7	-1.3	-0.9	
6H	-12.4	-12.1	-11.9	-11.6	-11.1	-2.3	-2.0	-1.8	-1.5	-1.0	
8H	-12.5	-12.2	-11.9	-11.7	-11.2	-2.4	-2.1	-1.9	-1.6	-1.1	
12H	-12.5	-12.3	-12.0	-11.8	-11.2	-2.5	-2.2	-2.0	-1.7	-1.2	
X=12H Y=4H	-12.3	-12.0	-11.8	-11.5	-11.0	-2.3	-1.9	-1.8	-1.4	-1.0	
6H	-12.5	-12.2	-11.9	-11.7	-11.2	-2.4	-2.1	-1.9	-1.7	-1.1	
8H	-12.5	-12.3	-12.0	-11.8	-11.2	-2.5	-2.2	-2.0	-1.7	-1.2	

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:

Tel:
Fax:

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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	21501.3	20.6	20.6	0.41	0.41
1.0-2.0	21140.9	60.7	81.3	1.20	1.61
2.0-3.0	20420.3	97.7	178.9	1.93	3.54
3.0-4.0	19399.0	129.9	308.8	2.57	6.10
4.0-5.0	18143.2	156.1	464.9	3.09	9.19
5.0-6.0	16723.5	175.8	640.7	3.47	12.66
6.0-7.0	15230.9	189.1	829.8	3.74	16.40
7.0-8.0	13743.4	196.7	1026.5	3.89	20.29
8.0-9.0	12327.5	199.8	1226.3	3.95	24.24
9.0-10.0	11010.5	199.3	1425.6	3.94	28.18
10.0-11.0	9820.7	196.3	1621.8	3.88	32.06
11.0-12.0	8761.3	191.5	1813.4	3.79	35.84
12.0-13.0	7834.1	185.9	1999.3	3.68	39.52
13.0-14.0	7038.3	180.2	2179.5	3.56	43.08
14.0-15.0	6356.2	174.5	2354.0	3.45	46.53
15.0-16.0	5776.8	169.3	2523.3	3.35	49.88
16.0-17.0	5283.0	164.5	2687.9	3.25	53.13
17.0-18.0	4861.3	160.3	2848.2	3.17	56.30
18.0-19.0	4503.5	156.7	3004.9	3.10	59.40
19.0-20.0	4191.1	153.4	3158.3	3.03	62.43
20.0-21.0	3923.4	150.7	3309.0	2.98	65.41
21.0-22.0	3689.6	148.3	3457.2	2.93	68.34
22.0-23.0	3477.1	145.9	3603.2	2.88	71.22
23.0-24.0	3281.1	143.5	3746.6	2.84	74.06
24.0-25.0	3095.1	140.8	3887.4	2.78	76.84
25.0-26.0	2912.2	137.5	4024.9	2.72	79.56
26.0-27.0	2719.3	133.1	4157.9	2.63	82.19
27.0-28.0	2506.1	126.9	4284.8	2.51	84.70
28.0-29.0	2267.5	118.7	4403.5	2.35	87.04
29.0-30.0	2005.5	108.3	4511.8	2.14	89.18
30.0-31.0	1725.2	96.0	4607.8	1.90	91.08
31.0-32.0	1434.3	82.2	4690.0	1.62	92.70
32.0-33.0	1151.5	67.9	4757.8	1.34	94.05
33.0-34.0	895.9	54.2	4812.0	1.07	95.12
34.0-35.0	674.0	41.9	4853.9	0.83	95.94
35.0-36.0	491.5	31.3	4885.2	0.62	96.56

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	355.1	23.2	4908.4	0.46	97.02
37.0-38.0	261.4	17.5	4925.8	0.34	97.37
38.0-39.0	201.6	13.8	4939.6	0.27	97.64
39.0-40.0	165.9	11.6	4951.2	0.23	97.87
40.0-41.0	145.1	10.3	4961.5	0.20	98.07
41.0-42.0	130.9	9.5	4971.0	0.19	98.26
42.0-43.0	119.6	8.9	4979.9	0.18	98.43
43.0-44.0	110.4	8.3	4988.2	0.16	98.60
44.0-45.0	102.1	7.8	4996.0	0.16	98.75
45.0-46.0	94.4	7.4	5003.4	0.15	98.90
46.0-47.0	87.1	6.9	5010.4	0.14	99.04
47.0-48.0	80.2	6.5	5016.8	0.13	99.17
48.0-49.0	73.4	6.0	5022.9	0.12	99.28
49.0-50.0	66.9	5.6	5028.5	0.11	99.39
50.0-51.0	60.8	5.1	5033.6	0.10	99.50
51.0-52.0	54.8	4.7	5038.3	0.09	99.59
52.0-53.0	49.0	4.3	5042.6	0.08	99.67
53.0-54.0	43.1	3.8	5046.4	0.08	99.75
54.0-55.0	36.4	3.3	5049.6	0.06	99.81
55.0-56.0	29.6	2.7	5052.3	0.05	99.87
56.0-57.0	23.2	2.1	5054.4	0.04	99.91
57.0-58.0	18.0	1.7	5056.1	0.03	99.94
58.0-59.0	13.5	1.3	5057.3	0.02	99.97
59.0-60.0	9.0	0.9	5058.2	0.02	99.98
60.0-61.0	5.5	0.5	5058.7	0.01	99.99
61.0-62.0	2.7	0.3	5059.0	0.01	100.00
62.0-63.0	0.7	0.1	5059.1	0.00	100.00
63.0-64.0	0.2	0.0	5059.1	0.00	100.00
64.0-65.0	0.0	0.0	5059.1	0.00	100.00
65.0-66.0	0.0	0.0	5059.1	0.00	100.00
66.0-67.0	0.0	0.0	5059.1	0.00	100.00
67.0-68.0	0.0	0.0	5059.1	0.00	100.00
68.0-69.0	0.0	0.0	5059.1	0.00	100.00
69.0-70.0	0.0	0.0	5059.1	0.00	100.00
70.0-71.0	0.0	0.0	5059.1	0.00	100.00
71.0-72.0	0.0	0.0	5059.1	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:

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	21561.6	21628.9	21561.6	21628.9	21561.6					
G1.0	20610.5	22050.3	22182.0	20787.1	20610.5					
G2.0	19396.4	22034.0	22438.3	19628.3	19396.4					
G3.0	17891.2	21571.1	22283.2	18119.8	17891.2					
G4.0	16370.8	20680.2	21730.5	16545.0	16370.8					
G5.0	14702.9	19444.1	20838.6	14833.6	14702.9					
G6.0	13117.5	18010.5	19631.2	13209.2	13117.5					
G7.0	11533.1	16457.2	18246.8	11641.5	11533.1					
G8.0	10224.1	14798.8	16733.5	10312.4	10224.1					
G9.0	9002.4	13283.1	15188.2	9077.3	9002.4					
G10.0	7975.9	11835.2	13678.8	8042.7	7975.9					
G11.0	7094.5	10503.3	12254.7	7180.4	7094.5					
G12.0	6352.4	9332.7	10943.3	6429.2	6352.4					
G13.0	5734.4	8337.6	9738.8	5804.5	5734.4					
G14.0	5240.4	7457.1	8708.9	5284.3	5240.4					
G15.0	4805.7	6726.0	7773.5	4853.9	4805.7					
G16.0	4458.3	6074.6	7024.3	4498.3	4458.3					
G17.0	4150.0	5537.7	6329.0	4191.5	4150.0					
G18.0	3882.2	5087.2	5780.2	3932.4	3882.2					
G19.0	3651.3	4695.0	5276.7	3723.3	3651.3					
G20.0	3442.7	4356.1	4863.9	3519.6	3442.7					
G21.0	3264.7	4071.2	4518.4	3350.6	3264.7					
G22.0	3097.2	3806.8	4218.7	3189.3	3097.2					
G23.0	2924.0	3580.2	3958.1	3042.3	2924.0					
G24.0	2751.7	3382.6	3718.6	2891.5	2751.7					
G25.0	2564.6	3202.2	3510.5	2739.3	2564.6					
G26.0	2350.3	3029.0	3326.8	2574.6	2350.3					
G27.0	2096.5	2862.9	3139.2	2375.2	2096.5					
G28.0	1786.7	2704.4	2965.5	2118.4	1786.7					
G29.0	1450.8	2531.2	2781.3	1802.0	1450.8					
G30.0	1107.6	2333.2	2597.1	1441.2	1107.6					
G31.0	786.0	2075.9	2385.7	1075.2	786.0					
G32.0	514.5	1757.6	2145.1	734.5	514.5					
G33.0	349.3	1378.2	1860.2	472.9	349.3					
G34.0	249.6	1007.4	1535.2	314.0	249.6					
G35.0	201.4	663.8	1187.8	232.9	201.4					
G36.0	173.7	424.7	856.6	191.4	173.7					

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:

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Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	156.1	284.0	588.9	165.1	156.1					
G38.0	143.2	219.1	387.5	147.5	143.2					
G39.0	131.7	185.6	264.4	133.6	131.7					
G40.0	121.2	165.1	203.8	121.7	121.2					
G41.0	112.6	149.9	173.2	113.1	112.6					
G42.0	104.0	137.0	153.7	103.6	104.0					
G43.0	96.4	126.5	139.4	96.4	96.4					
G44.0	88.8	117.4	128.4	90.2	88.8					
G45.0	82.1	108.8	117.9	83.5	82.1					
G46.0	75.4	101.2	108.8	77.3	75.4					
G47.0	69.2	94.0	99.3	71.6	69.2					
G48.0	63.0	87.8	92.1	64.4	63.0					
G49.0	56.3	80.7	84.5	58.7	56.3					
G50.0	50.1	73.5	78.3	53.5	50.1					
G51.0	43.9	68.2	71.6	47.7	43.9					
G52.0	37.7	60.6	65.9	43.0	37.7					
G53.0	33.4	54.9	59.7	37.2	33.4					
G54.0	26.3	47.7	54.4	31.0	26.3					
G55.0	17.7	41.5	48.2	24.8	17.7					
G56.0	6.2	36.3	42.5	19.6	6.2					
G57.0	3.3	29.6	36.8	11.4	3.3					
G58.0	2.4	24.8	31.5	3.8	2.4					
G59.0	0.0	17.7	26.3	1.4	0.0					
G60.0	0.0	5.7	21.0	0.0	0.0					
G61.0	0.0	3.3	14.3	0.0	0.0					
G62.0	0.0	0.5	3.8	0.0	0.0					
G63.0	0.0	0.0	1.4	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

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: