

Tel:
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Page 1 of 16 Pages

Report No.:

Test Time: 2017-07-20 17:48

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 4000k
Luminous Width (mm): 130
Current: 0.142 A
Power Factor: 0.968

Luminaire Description: DLC0530-B840 15D
Luminous Length (mm): 130
Voltage: 220.0 V
Power: 30.30 W

Photometric Results

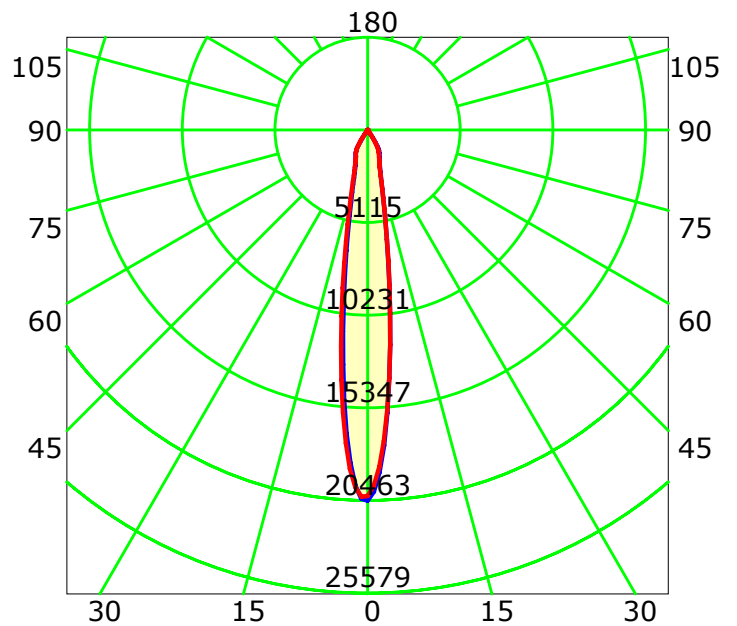
CIE Class: Direct
Measurement Flux: 3027.8 lm
Downward Ratio: 100%
Field Angle: H38.6 V38.9
Luminaire Efficacy Rating (LER): 100
Max. Intensity: 20463.97 cd

Total Rated Lamp Lumens: 3027.8 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H14.5 V15.2
Central Intensity: 20463.96 cd
Pos of Max. Intensity: H0 V0

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

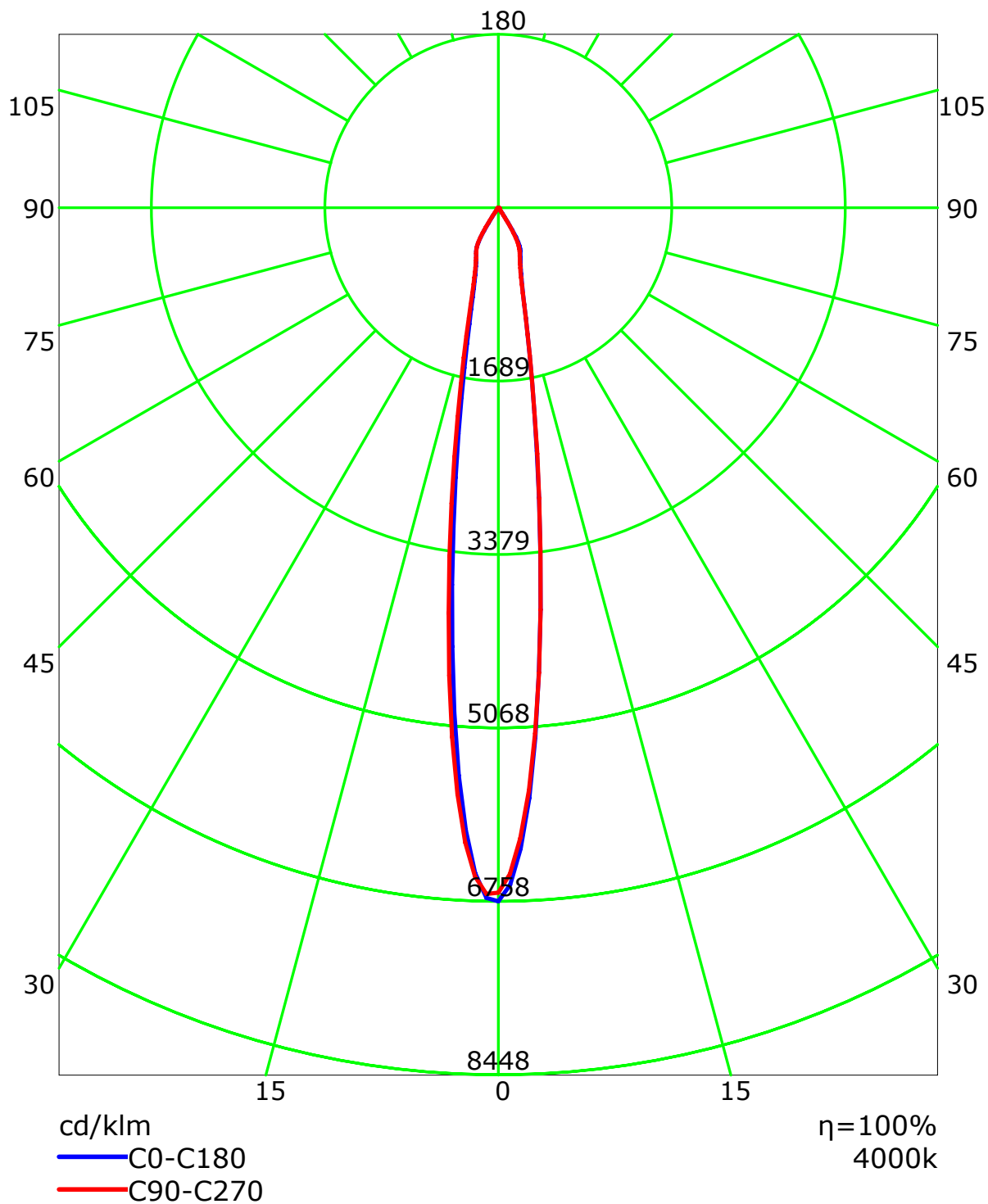
Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

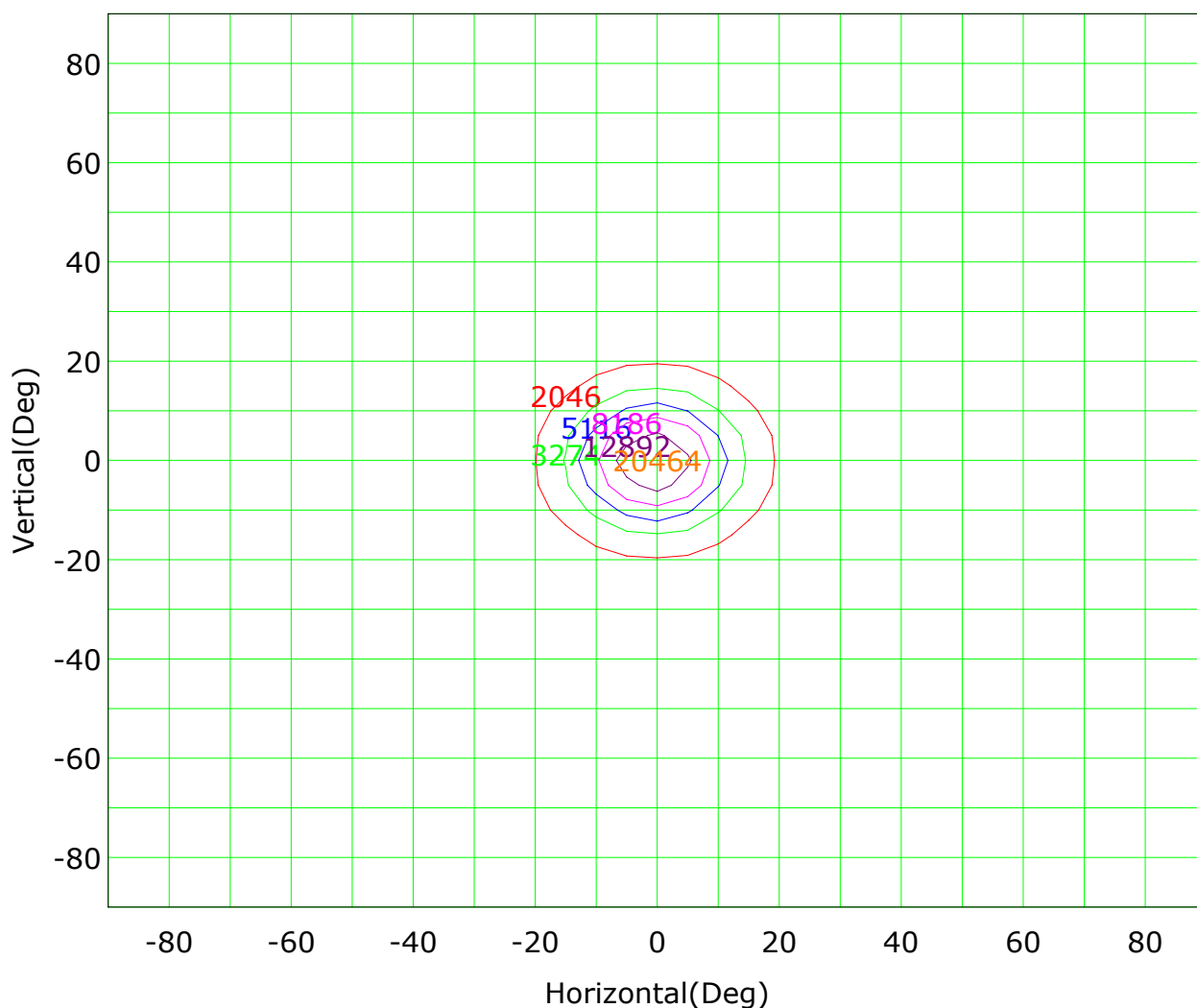
Luminous Intensity Distribution Curve(cd/klm)



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%): 20464 cd

(10%): 2046 cd	(16%): 3274 cd
(25%): 5116 cd	(40%): 8186 cd
(63%): 12892 cd	(100%): 20464 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

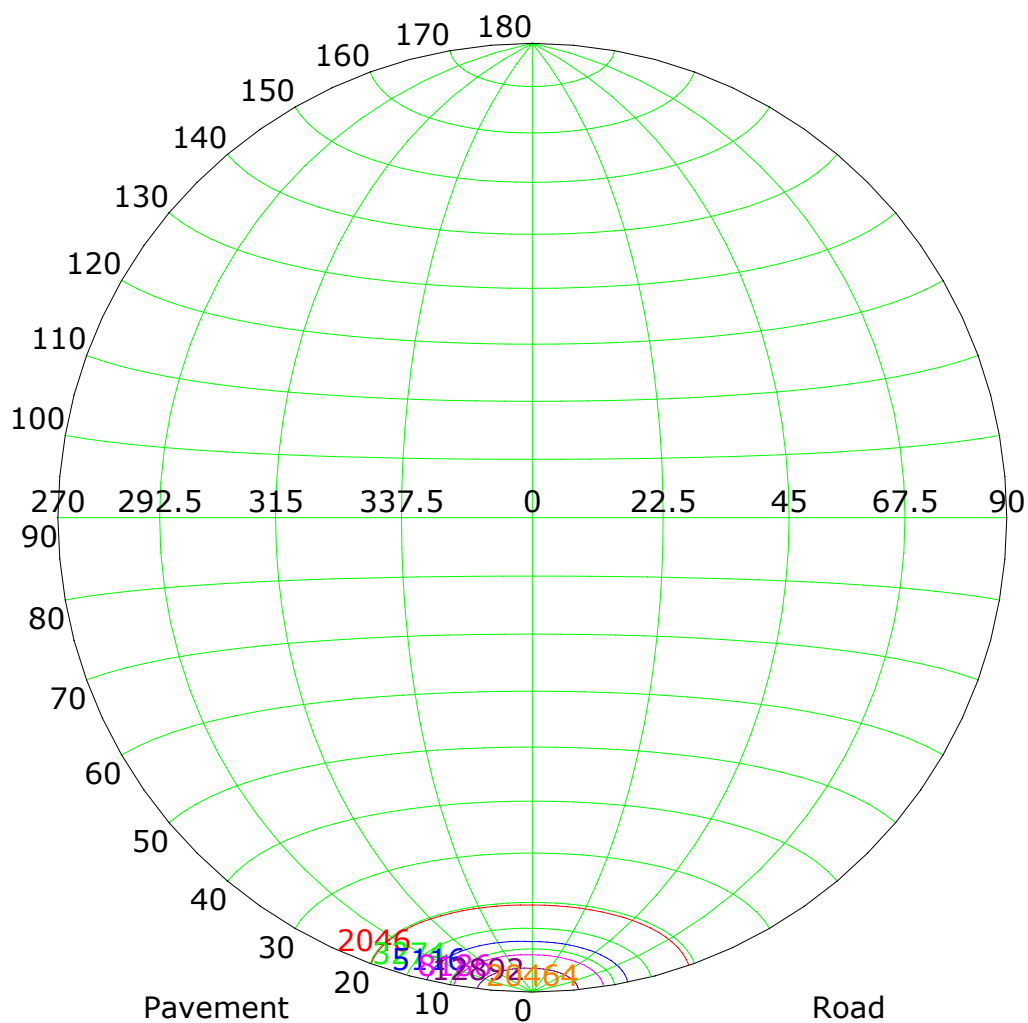
Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

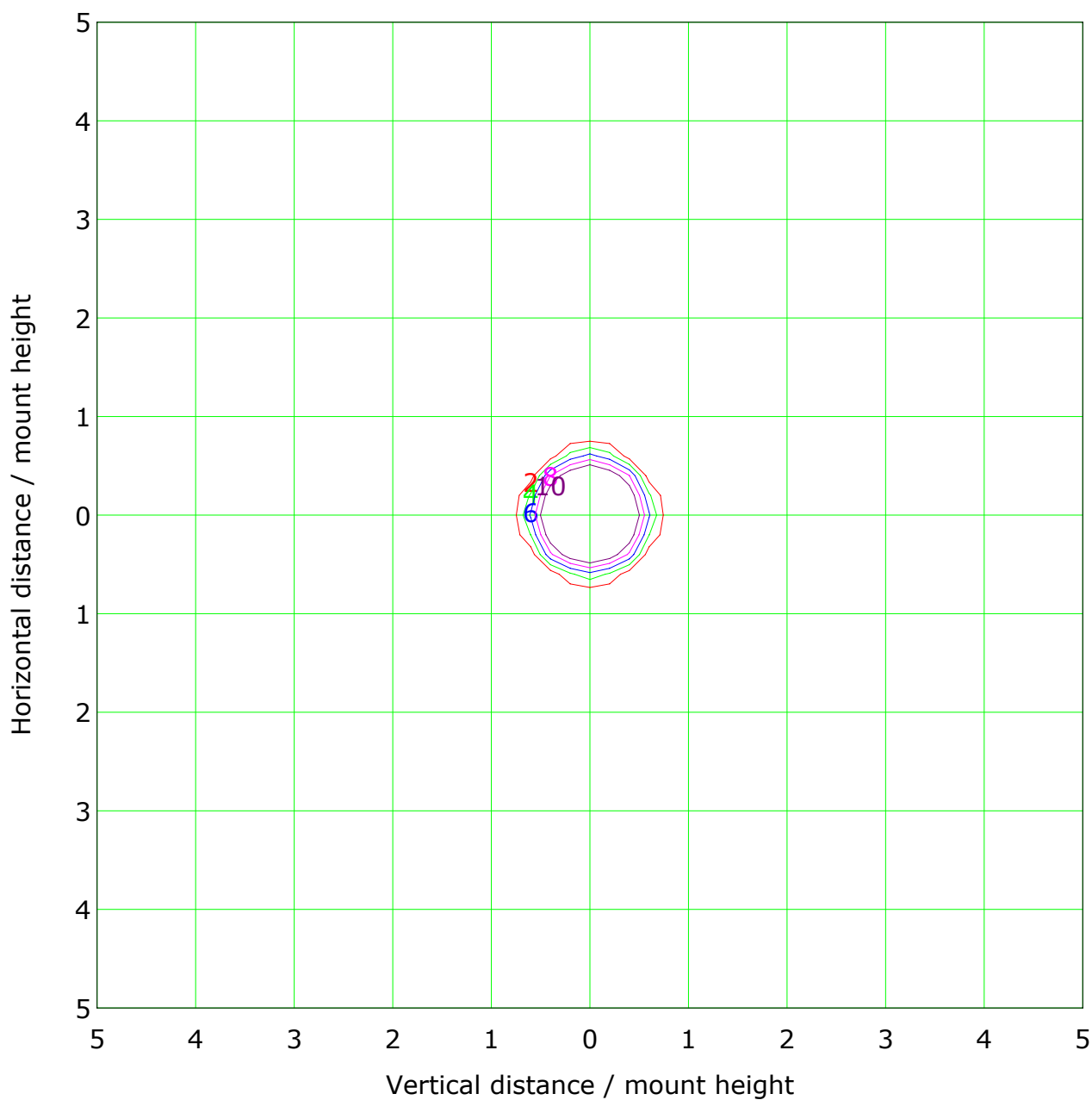
Isocandela (sphere)



Imax (100%): 20464 cd

(10%): 2046 cd	(16%): 3274 cd
(25%): 5116 cd	(40%): 8186 cd
(63%): 12892 cd	(100%): 20464 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 204.6 lx

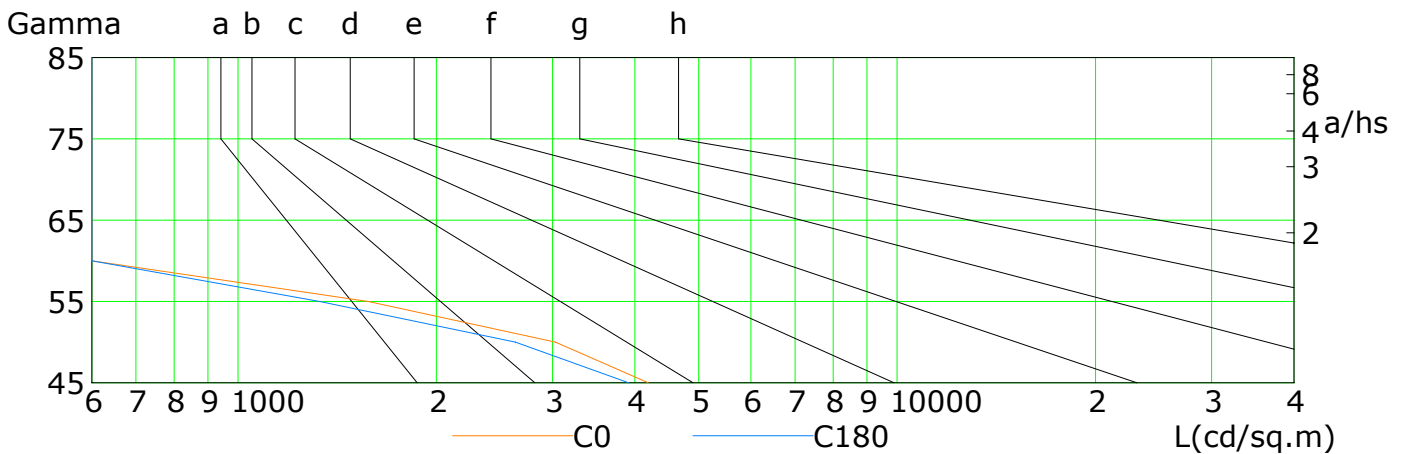
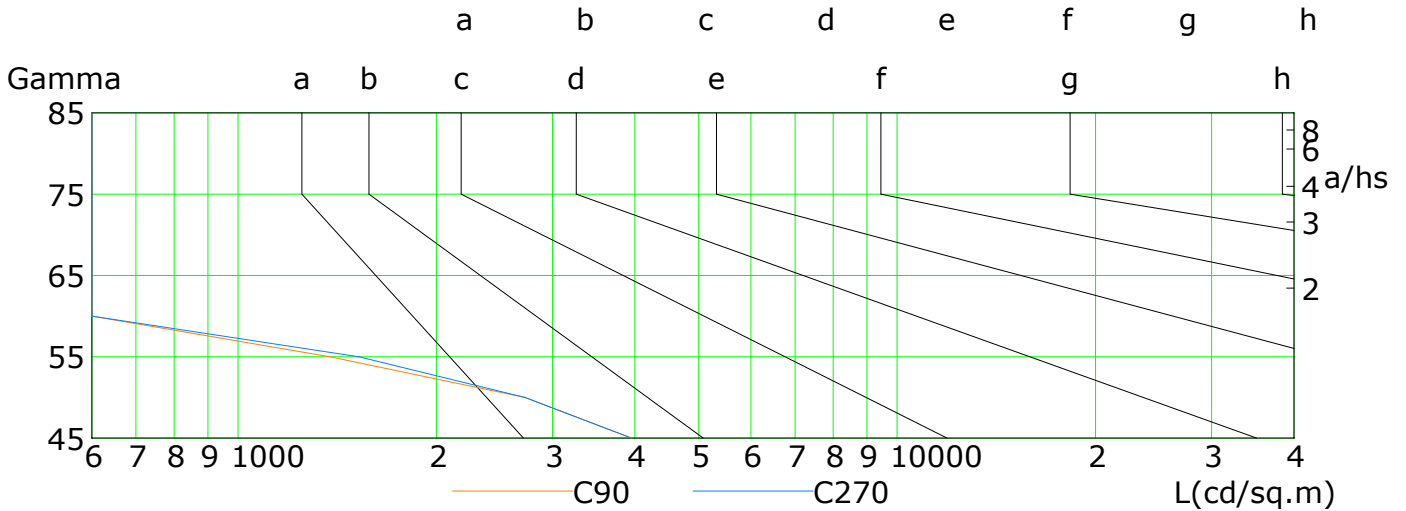
— (1%): 2.0 lx	— (2%): 4.1 lx
— (3%): 6.1 lx	— (4%): 8.2 lx
— (5%): 10.2 lx	

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	4193	3031	1575	0	0	0	0	0	0
C90	3954	2724	1378	0	0	0	0	0	0
C180	3914	2636	1330	0	0	0	0	0	0
C270	3954	2724	1526	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

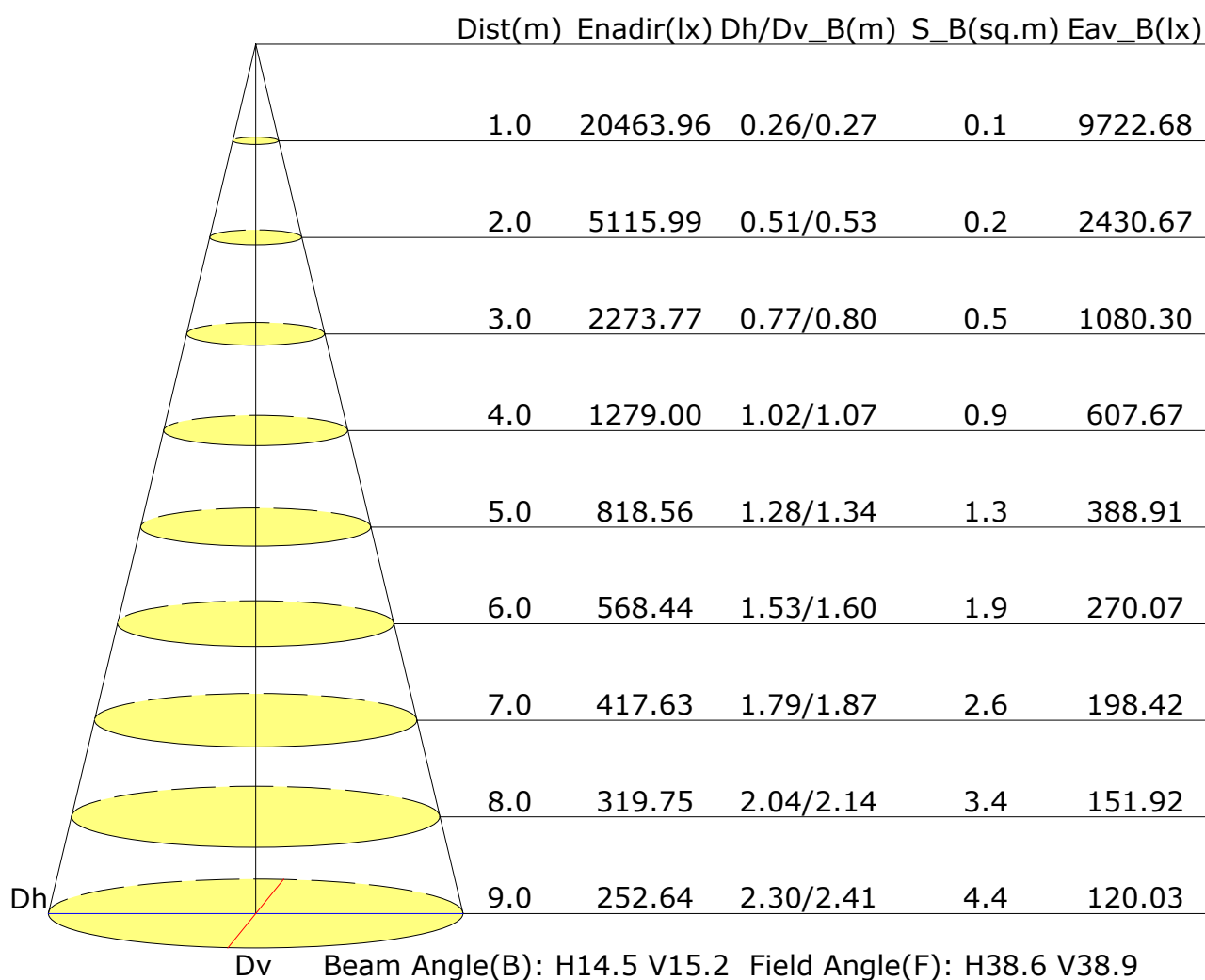
Test Device: GPM-1600L

Distance: 7.990 m

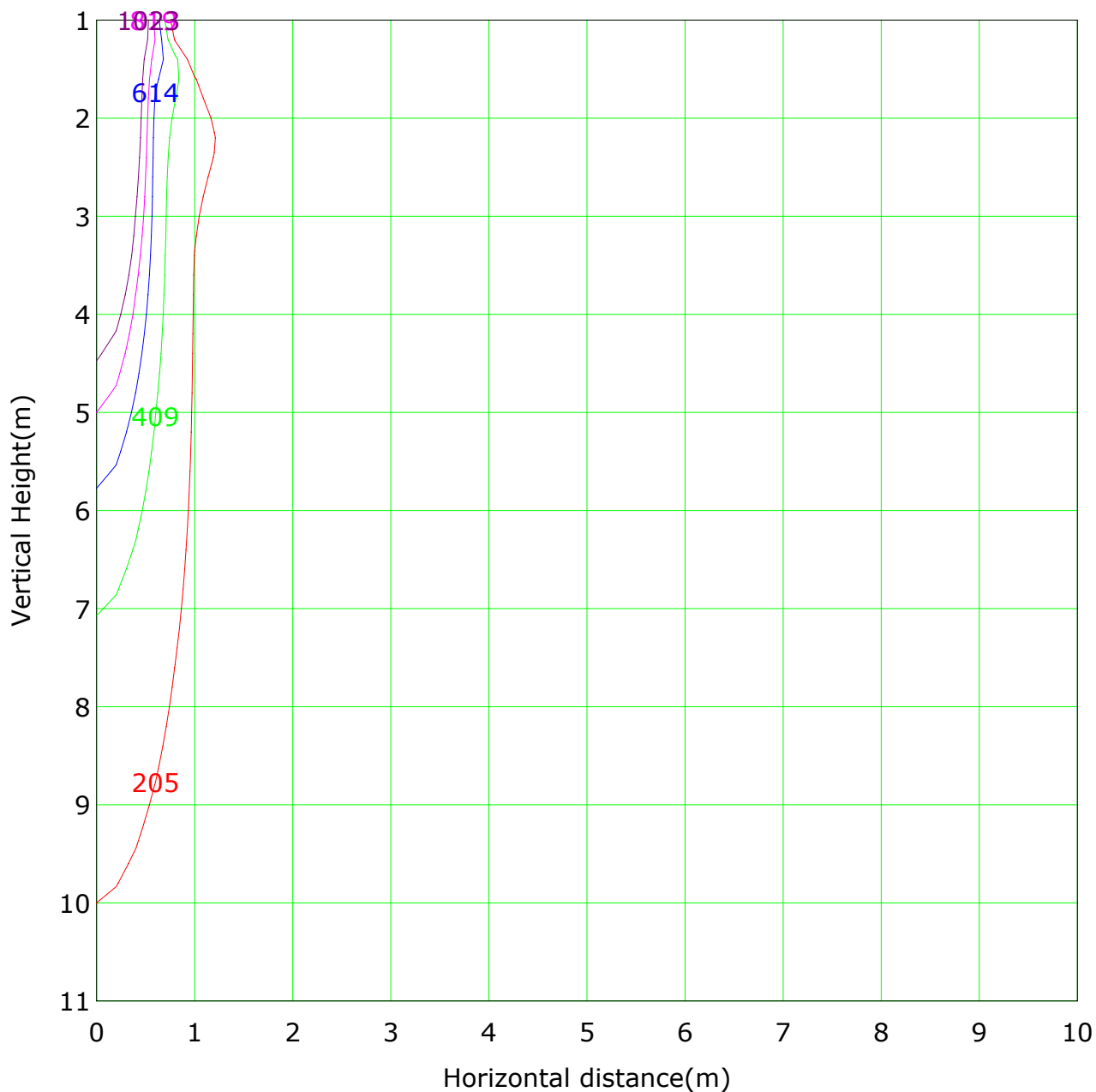
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 20464.0 lx

(1%): 204.6 lx

(2%): 409.3 lx

(3%): 613.9 lx

(4%): 818.6 lx

(5%): 1023.2 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

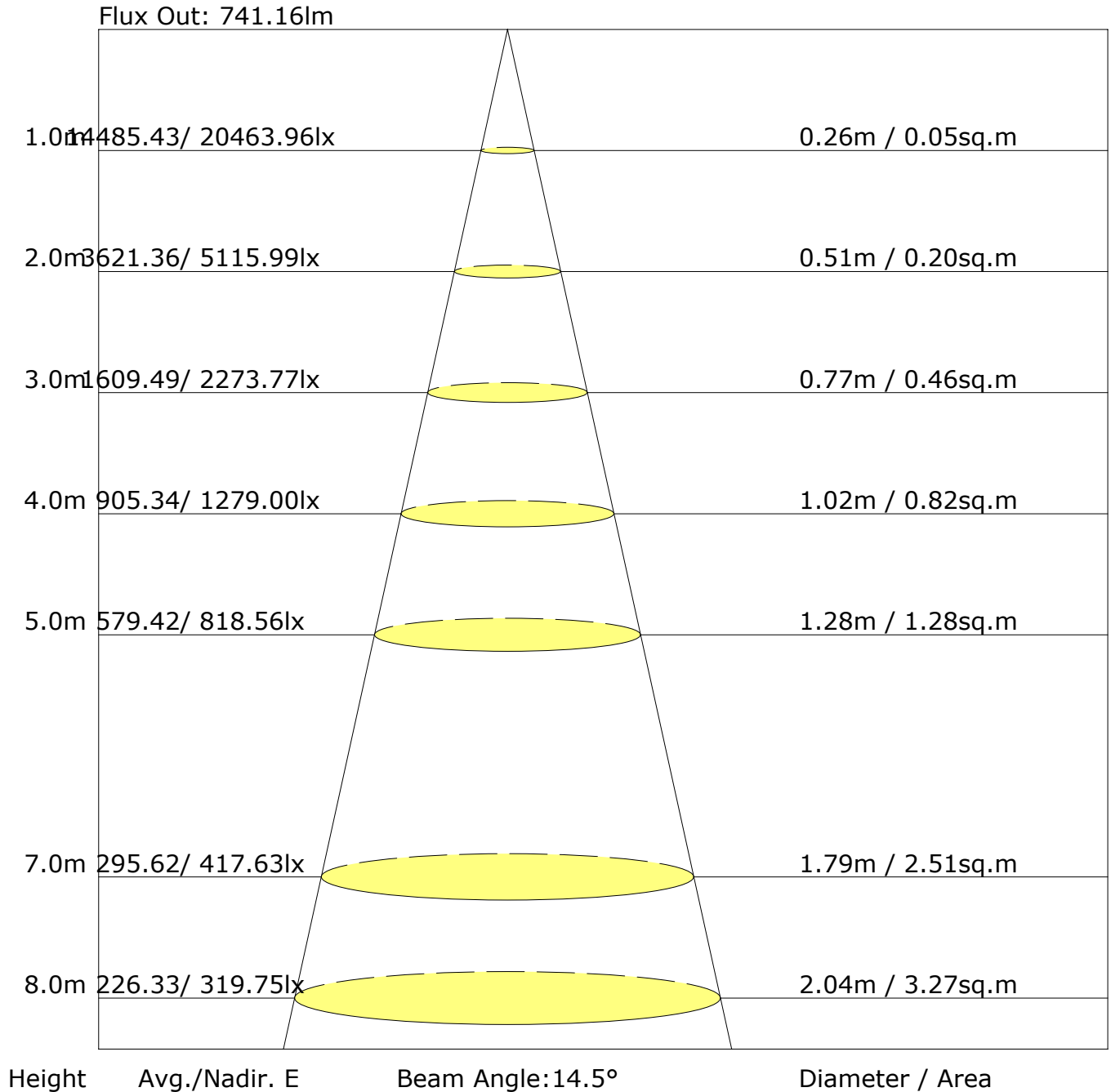
Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

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	-8.8	-7.9	-8.5	-7.6	-7.3	-13.4	-12.5	-13.0	-12.2	-11.8
3H	-9.0	-8.3	-8.7	-7.9	-7.6	-13.6	-12.8	-13.2	-12.5	-12.1
4H	-9.2	-8.4	-8.8	-8.1	-7.7	-13.7	-13.0	-13.3	-12.6	-12.2
6H	-9.3	-8.6	-8.9	-8.2	-7.8	-13.8	-13.2	-13.4	-12.8	-12.4
8H	-9.3	-8.7	-8.9	-8.3	-7.9	-13.9	-13.3	-13.4	-12.9	-12.5
12H	-9.4	-8.8	-9.0	-8.4	-8.0	-13.9	-13.3	-13.5	-13.0	-12.5
X=4H Y=2H	-9.2	-8.4	-8.8	-8.1	-7.7	-13.7	-13.0	-13.3	-12.6	-12.2
3H	-9.4	-8.8	-9.0	-8.4	-8.0	-13.9	-13.3	-13.5	-12.9	-12.5
4H	-9.5	-9.0	-9.1	-8.6	-8.1	-14.1	-13.5	-13.6	-13.1	-12.7
6H	-9.6	-9.2	-9.2	-8.7	-8.3	-14.2	-13.7	-13.7	-13.3	-12.8
8H	-9.7	-9.3	-9.2	-8.8	-8.4	-14.3	-13.8	-13.8	-13.4	-12.9
12H	-9.8	-9.4	-9.3	-8.9	-8.5	-14.3	-14.0	-13.8	-13.5	-13.0
X=8H Y=4H	-9.7	-9.3	-9.2	-8.8	-8.4	-14.3	-13.8	-13.8	-13.4	-12.9
6H	-9.9	-9.5	-9.3	-9.0	-8.5	-14.4	-14.1	-13.9	-13.6	-13.1
8H	-9.9	-9.6	-9.4	-9.1	-8.6	-14.5	-14.2	-13.9	-13.6	-13.1
12H	-10.0	-9.7	-9.5	-9.2	-8.7	-14.5	-14.3	-14.0	-13.8	-13.2
X=12H Y=4H	-9.8	-9.4	-9.3	-8.9	-8.5	-14.3	-14.0	-13.8	-13.5	-13.0
6H	-9.9	-9.6	-9.4	-9.2	-8.6	-14.5	-14.2	-13.9	-13.7	-13.1
8H	-10.0	-9.7	-9.5	-9.2	-8.7	-14.5	-14.3	-14.0	-13.8	-13.2

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:
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Page 11 of 16 Pages

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	20199.7	19.3	19.3	0.64	0.64
1.0-2.0	19646.1	56.4	75.7	1.86	2.50
2.0-3.0	18589.4	88.9	164.6	2.94	5.44
3.0-4.0	17141.8	114.8	279.4	3.79	9.23
4.0-5.0	15433.9	132.8	412.2	4.39	13.61
5.0-6.0	13609.6	143.0	555.2	4.72	18.34
6.0-7.0	11798.2	146.5	701.7	4.84	23.18
7.0-8.0	10104.9	144.6	846.3	4.78	27.95
8.0-9.0	8588.1	139.2	985.5	4.60	32.55
9.0-10.0	7253.7	131.3	1116.8	4.34	36.89
10.0-11.0	6117.3	122.2	1239.1	4.04	40.92
11.0-12.0	5188.0	113.4	1352.5	3.75	44.67
12.0-13.0	4427.4	105.1	1457.6	3.47	48.14
13.0-14.0	3810.4	97.5	1555.1	3.22	51.36
14.0-15.0	3317.1	91.1	1646.2	3.01	54.37
15.0-16.0	2922.3	85.6	1731.9	2.83	57.20
16.0-17.0	2611.4	81.3	1813.2	2.69	59.88
17.0-18.0	2366.5	78.0	1891.2	2.58	62.46
18.0-19.0	2174.1	75.6	1966.9	2.50	64.96
19.0-20.0	2021.8	74.0	2040.9	2.44	67.40
20.0-21.0	1898.3	72.9	2113.8	2.41	69.81
21.0-22.0	1796.5	72.2	2186.0	2.38	72.20
22.0-23.0	1709.3	71.7	2257.7	2.37	74.57
23.0-24.0	1633.0	71.4	2329.1	2.36	76.92
24.0-25.0	1566.6	71.2	2400.4	2.35	79.28
25.0-26.0	1507.3	71.2	2471.5	2.35	81.63
26.0-27.0	1449.8	70.9	2542.5	2.34	83.97
27.0-28.0	1387.8	70.3	2612.7	2.32	86.29
28.0-29.0	1312.9	68.7	2681.4	2.27	88.56
29.0-30.0	1212.0	65.4	2746.9	2.16	90.72
30.0-31.0	1071.3	59.6	2806.5	1.97	92.69
31.0-32.0	885.7	50.7	2857.3	1.68	94.37
32.0-33.0	666.5	39.3	2896.5	1.30	95.66
33.0-34.0	451.3	27.3	2923.8	0.90	96.57
34.0-35.0	282.2	17.5	2941.4	0.58	97.14
35.0-36.0	176.4	11.2	2952.6	0.37	97.52

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:

Page 12 of 16 Pages

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	122.6	8.0	2960.6	0.26	97.78
37.0-38.0	97.7	6.5	2967.1	0.22	98.00
38.0-39.0	84.4	5.8	2972.9	0.19	98.19
39.0-40.0	75.9	5.3	2978.2	0.17	98.36
40.0-41.0	69.1	4.9	2983.1	0.16	98.52
41.0-42.0	63.5	4.6	2987.7	0.15	98.68
42.0-43.0	58.5	4.3	2992.1	0.14	98.82
43.0-44.0	53.7	4.1	2996.1	0.13	98.95
44.0-45.0	49.8	3.8	2999.9	0.13	99.08
45.0-46.0	45.8	3.6	3003.5	0.12	99.20
46.0-47.0	42.1	3.4	3006.9	0.11	99.31
47.0-48.0	38.8	3.1	3010.0	0.10	99.41
48.0-49.0	35.3	2.9	3012.9	0.10	99.51
49.0-50.0	31.9	2.7	3015.6	0.09	99.60
50.0-51.0	28.6	2.4	3018.0	0.08	99.68
51.0-52.0	25.4	2.2	3020.2	0.07	99.75
52.0-53.0	22.0	1.9	3022.1	0.06	99.81
53.0-54.0	18.8	1.7	3023.7	0.05	99.86
54.0-55.0	15.8	1.4	3025.1	0.05	99.91
55.0-56.0	12.5	1.1	3026.3	0.04	99.95
56.0-57.0	9.3	0.9	3027.1	0.03	99.98
57.0-58.0	5.5	0.5	3027.6	0.02	99.99
58.0-59.0	1.9	0.2	3027.8	0.01	100.00
59.0-60.0	0.2	0.0	3027.8	0.00	100.00
60.0-61.0	0.0	0.0	3027.8	0.00	100.00
61.0-62.0	0.0	0.0	3027.8	0.00	100.00
62.0-63.0	0.0	0.0	3027.8	0.00	100.00
63.0-64.0	0.0	0.0	3027.8	0.00	100.00
64.0-65.0	0.0	0.0	3027.8	0.00	100.00
65.0-66.0	0.0	0.0	3027.8	0.00	100.00
66.0-67.0	0.0	0.0	3027.8	0.00	100.00
67.0-68.0	0.0	0.0	3027.8	0.00	100.00
68.0-69.0	0.0	0.0	3027.8	0.00	100.00
69.0-70.0	0.0	0.0	3027.8	0.00	100.00
70.0-71.0	0.0	0.0	3027.8	0.00	100.00
71.0-72.0	0.0	0.0	3027.8	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:

Page 13 of 16 Pages

[illegible]

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

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Page 14 of 16 Pages

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	20464.0	20208.7	20464.0	20208.7	20464.0					
G1.0	19979.1	19658.9	20365.7	20248.7	19979.1					
G2.0	18917.8	18614.2	19642.2	19742.4	18917.8					
G3.0	17444.1	17216.9	18391.8	18745.9	17444.1					
G4.0	15664.5	15544.7	16787.4	17339.1	15664.5					
G5.0	13747.0	13773.2	14938.2	15676.9	13747.0					
G6.0	11920.2	11930.7	13016.8	13873.9	11920.2					
G7.0	10180.2	10207.9	11208.6	12047.6	10180.2					
G8.0	8638.8	8663.6	9510.7	10382.1	8638.8					
G9.0	7264.8	7348.8	8064.7	8831.6	7264.8					
G10.0	6137.6	6142.4	6771.9	7468.1	6137.6					
G11.0	5216.1	5215.1	5704.8	6282.7	5216.1					
G12.0	4455.9	4465.4	4831.4	5332.5	4455.9					
G13.0	3836.9	3843.1	4115.6	4538.4	3836.9					
G14.0	3360.1	3344.9	3542.9	3900.9	3360.1					
G15.0	2956.9	2952.1	3108.2	3370.6	2956.9					
G16.0	2646.2	2620.4	2753.1	2970.7	2646.2					
G17.0	2414.3	2371.3	2486.4	2629.0	2414.3					
G18.0	2219.6	2168.0	2270.2	2373.3	2219.6					
G19.0	2068.8	2015.3	2098.8	2178.5	2068.8					
G20.0	1938.5	1890.8	1965.2	2018.7	1938.5					
G21.0	1839.2	1792.9	1852.6	1888.9	1839.2					
G22.0	1752.4	1706.1	1758.6	1781.5	1752.4					
G23.0	1677.0	1627.8	1676.5	1694.2	1677.0					
G24.0	1605.4	1557.2	1606.8	1618.8	1605.4					
G25.0	1545.3	1494.7	1548.1	1556.2	1545.3					
G26.0	1488.0	1429.8	1495.6	1500.4	1488.0					
G27.0	1433.6	1360.1	1445.0	1446.0	1433.6					
G28.0	1370.6	1279.4	1385.4	1382.1	1370.6					
G29.0	1296.6	1173.5	1308.1	1307.6	1296.6					
G30.0	1180.7	1033.7	1188.8	1206.9	1180.7					
G31.0	1014.6	858.5	1014.1	1073.3	1014.6					
G32.0	786.5	651.9	792.7	893.8	786.5					
G33.0	539.3	439.0	544.5	684.3	539.3					
G34.0	327.4	273.5	335.0	467.2	327.4					
G35.0	197.1	166.6	199.0	292.1	197.1					
G36.0	132.2	117.9	132.2	174.2	132.2					

C Plane (°):0.0-360.0: 90.0

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Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

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Page 15 of 16 Pages

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	105.0	96.4	102.1	121.2	105.0					
G38.0	90.7	84.9	87.3	94.0	90.7					
G39.0	81.6	76.8	77.8	82.1	81.6					
G40.0	74.0	70.6	71.1	73.5	74.0					
G41.0	67.8	65.4	64.4	66.3	67.8					
G42.0	63.0	60.6	59.7	61.1	63.0					
G43.0	57.7	55.4	54.4	55.8	57.7					
G44.0	53.9	51.5	50.1	51.1	53.9					
G45.0	50.1	47.3	46.8	47.3	50.1					
G46.0	45.8	43.9	42.0	43.4	45.8					
G47.0	42.5	40.1	39.6	39.6	42.5					
G48.0	39.6	36.3	36.3	36.3	39.6					
G49.0	36.3	32.9	32.0	32.9	36.3					
G50.0	32.9	29.6	28.6	29.6	32.9					
G51.0	29.1	25.8	26.7	26.3	29.1					
G52.0	24.8	23.4	23.9	23.4	24.8					
G53.0	21.0	19.6	19.1	20.5	21.0					
G54.0	18.6	16.7	17.2	17.7	18.6					
G55.0	15.3	13.4	12.9	14.8	15.3					
G56.0	11.9	10.0	10.0	11.4	11.9					
G57.0	8.6	6.2	8.1	8.1	8.6					
G58.0	3.8	0.0	4.3	5.3	3.8					
G59.0	0.0	0.0	0.0	1.4	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:

Page 16 of 16 Pages

Unit: cd

[illegible]

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector: