

Tel:
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Page 1 of 16 Pages

Report No.:

Test Time: 2017-07-29 16:24

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 3000k
Luminous Length (mm): 130
Voltage: 219.7 V
Power: 30.20 W

Luminaire Description: DLC0530-B830 50D
Lamp Description: T1204C430M2
Luminous Width (mm): 130
Current: 0.142 A
Power Factor: 0.966

Photometric Results

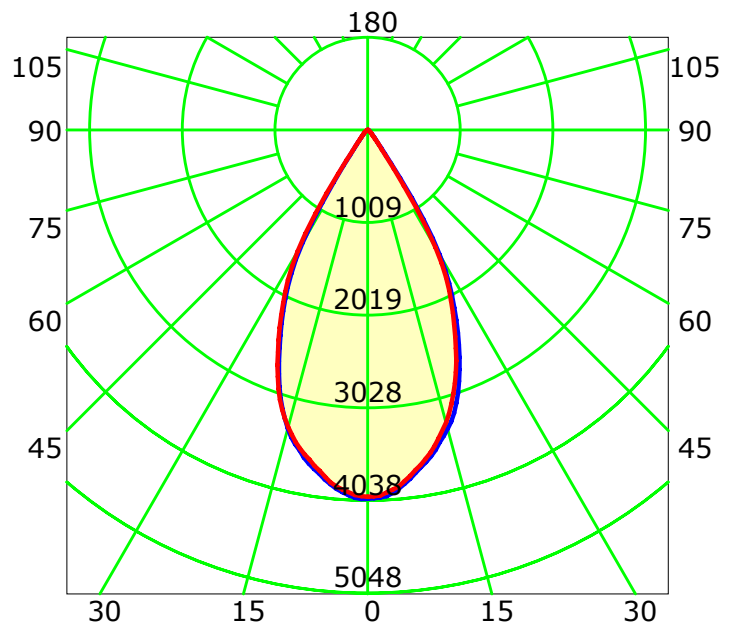
CIE Class: Direct
Measurement Flux: 2717 lm
Downward Ratio: 100%
Field Angle: H69.9 V69.7
Luminaire Efficacy Rating (LER): 90
Max. Intensity: 4022.29 cd

Total Rated Lamp Lumens: 2717.0 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H53.4 V53.5
Central Intensity: 4021.04 cd
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



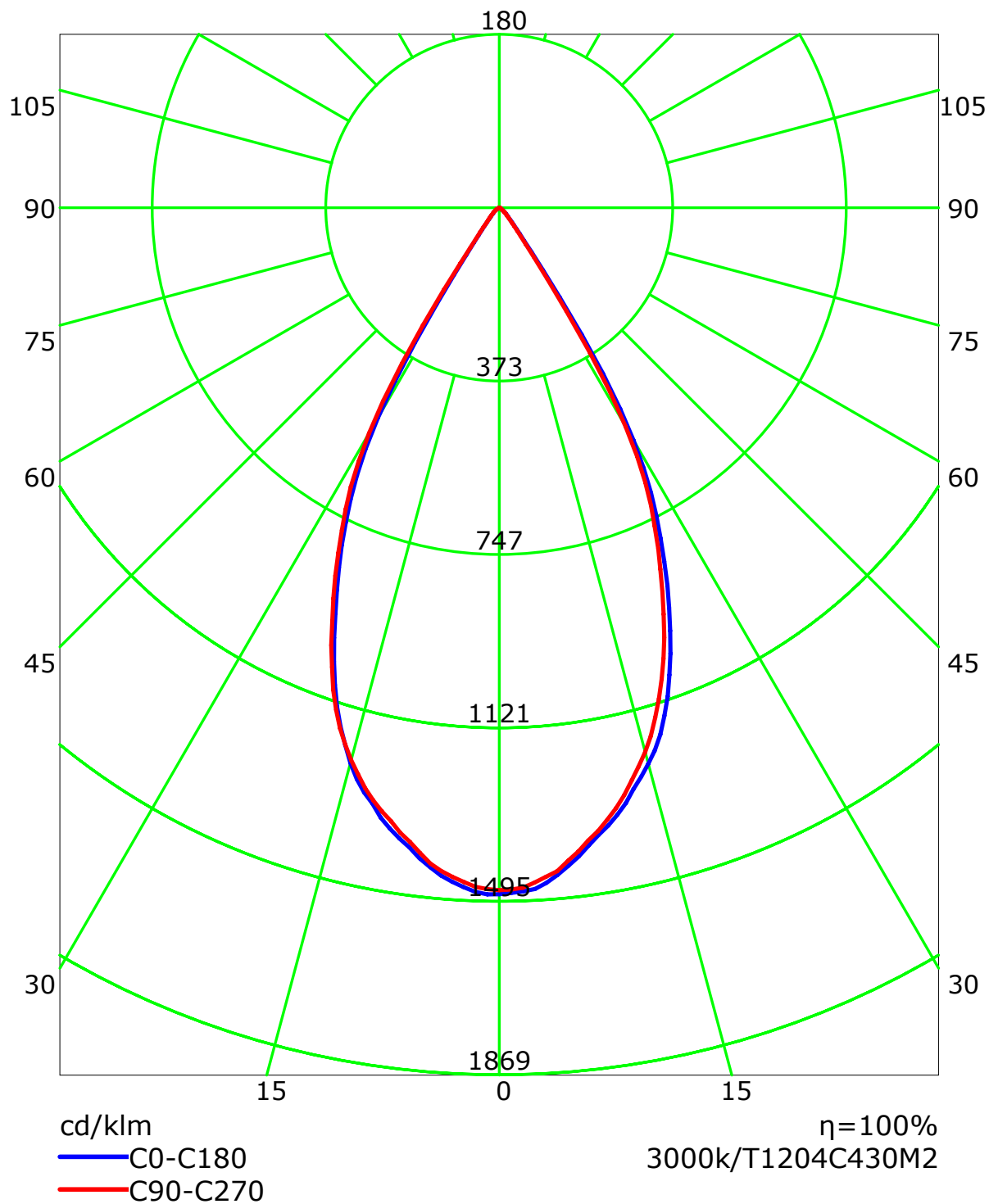
Unit: cd

— 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:

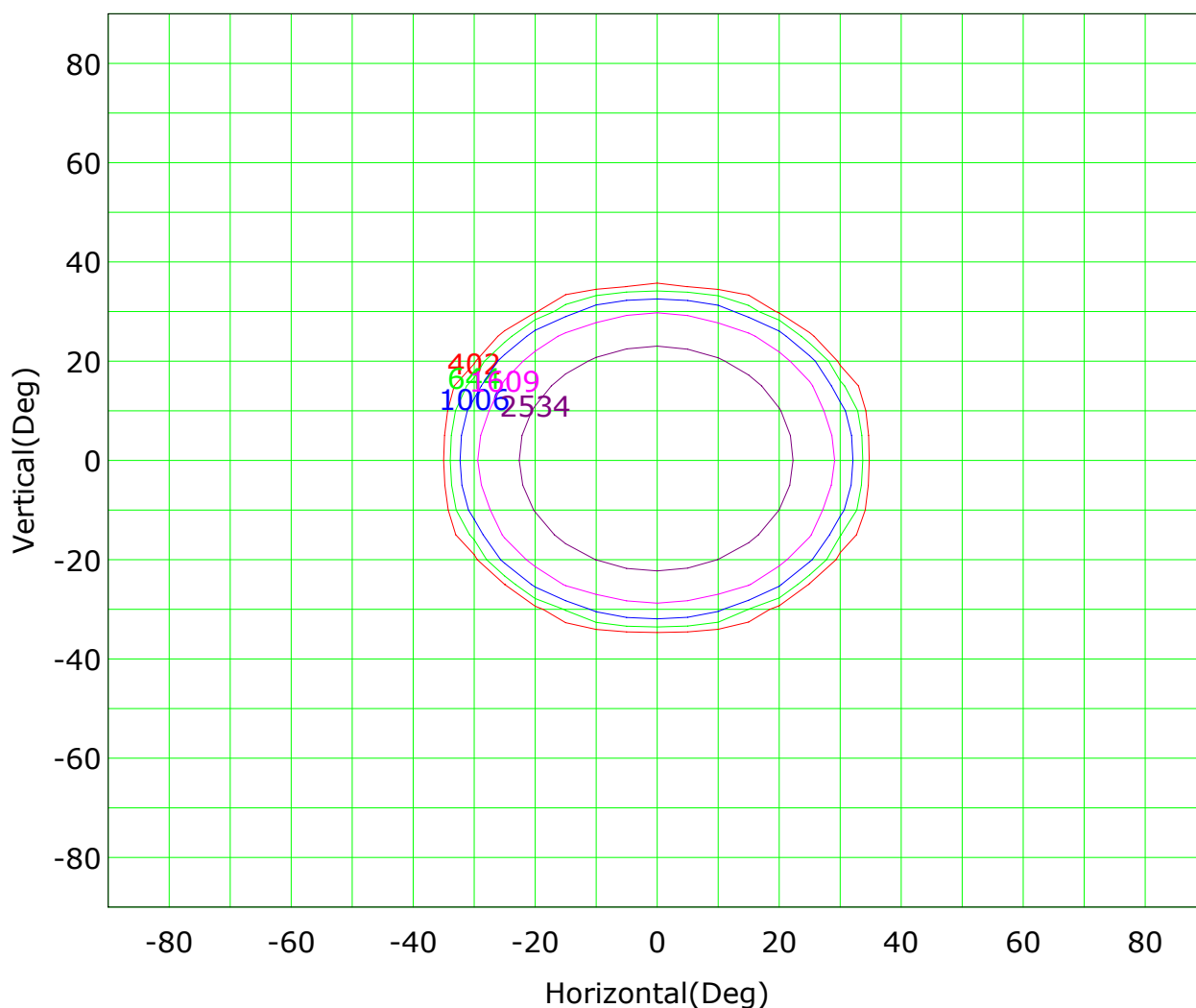
Luminous Intensity Distribution Curve(cd/klm)



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:

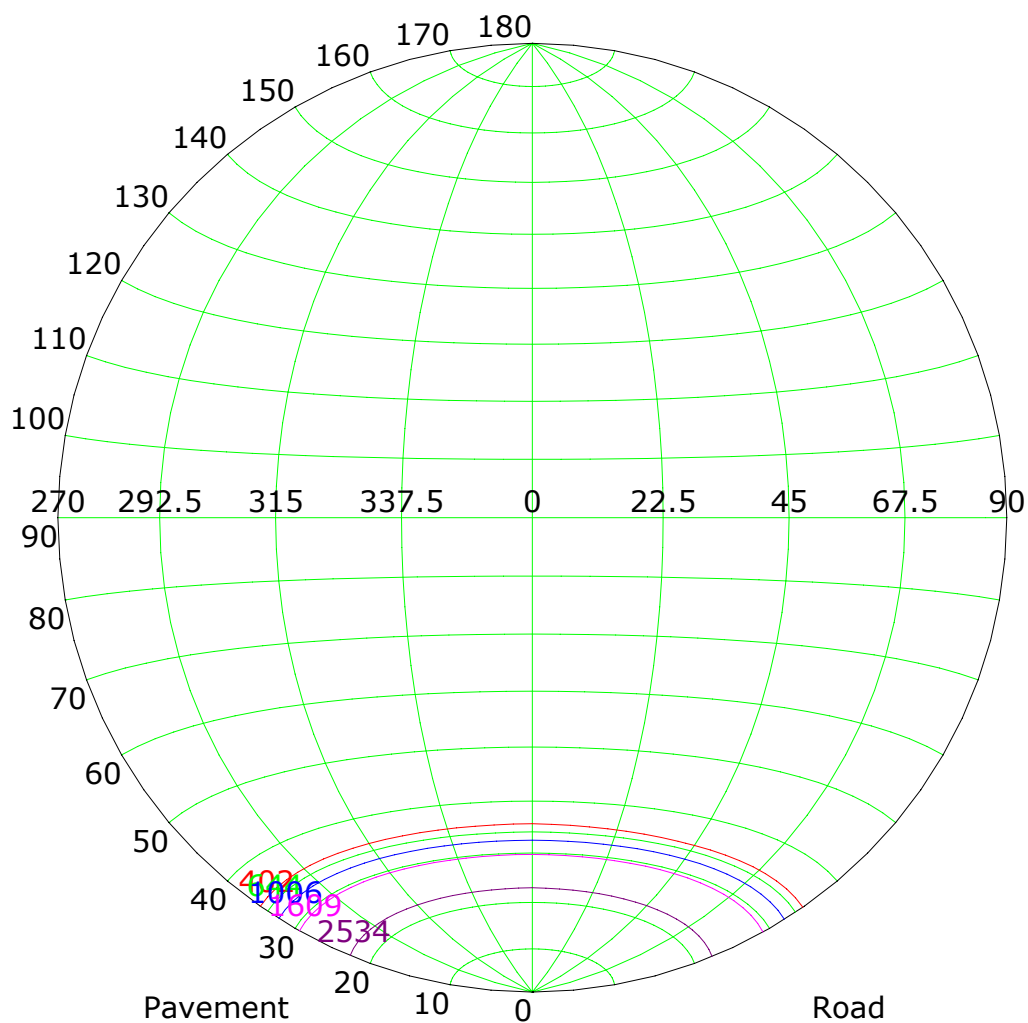
Isocandela (rectangle)



Imax (100%): 4022 cd

(10%): 402 cd	(16%): 644 cd
(25%): 1006 cd	(40%): 1609 cd
(63%): 2534 cd	(100%): 4022 cd

Isocandela (sphere)

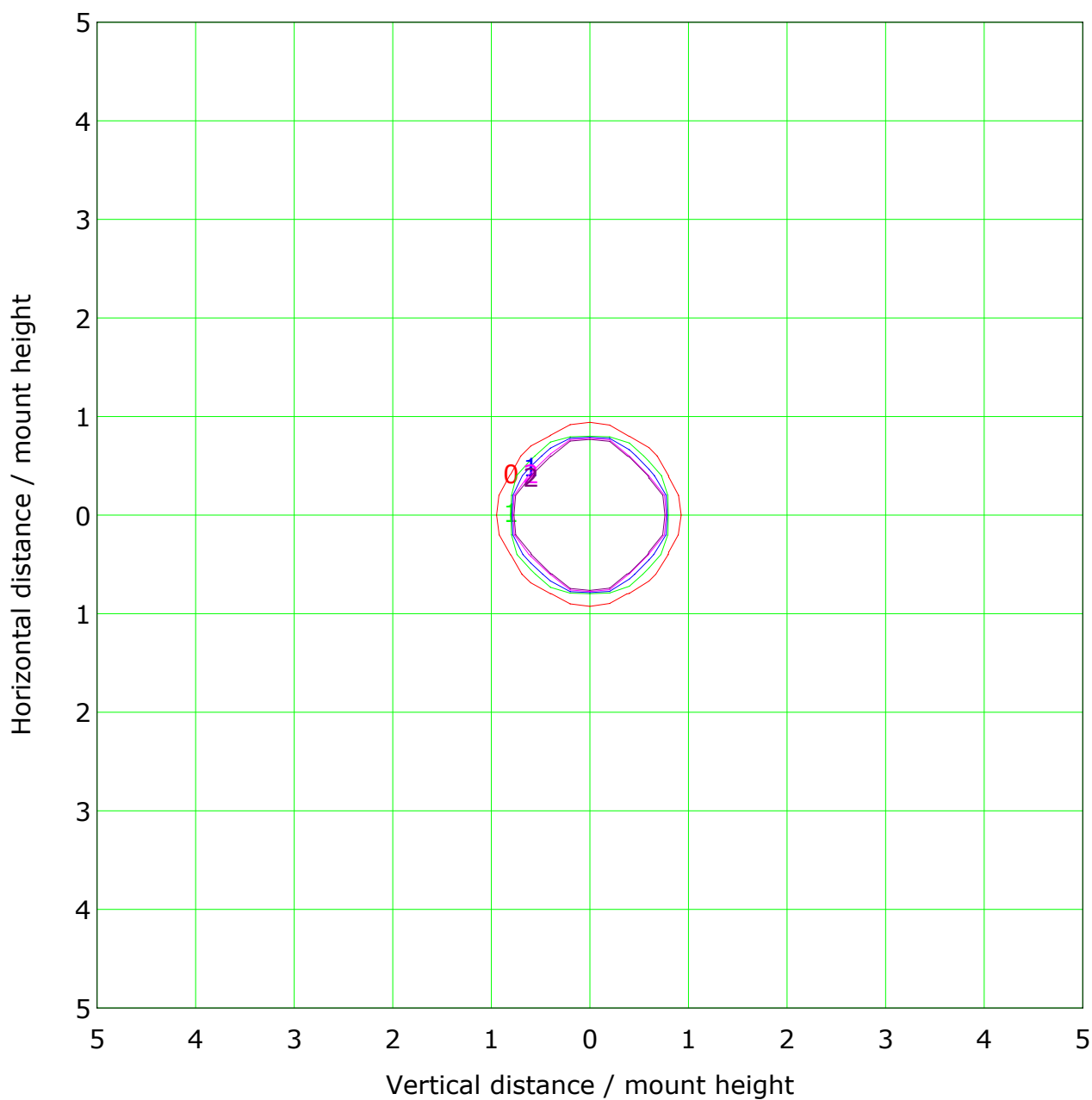


Imax (100%): 4022 cd

(10%): 402 cd
(25%): 1006 cd
(63%): 2534 cd

(16%): 644 cd
(40%): 1609 cd
(100%): 4022 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 40.2 lx

(1%): 0.4 lx	(2%): 0.8 lx
(3%): 1.2 lx	(4%): 1.6 lx
(5%): 2.0 lx	

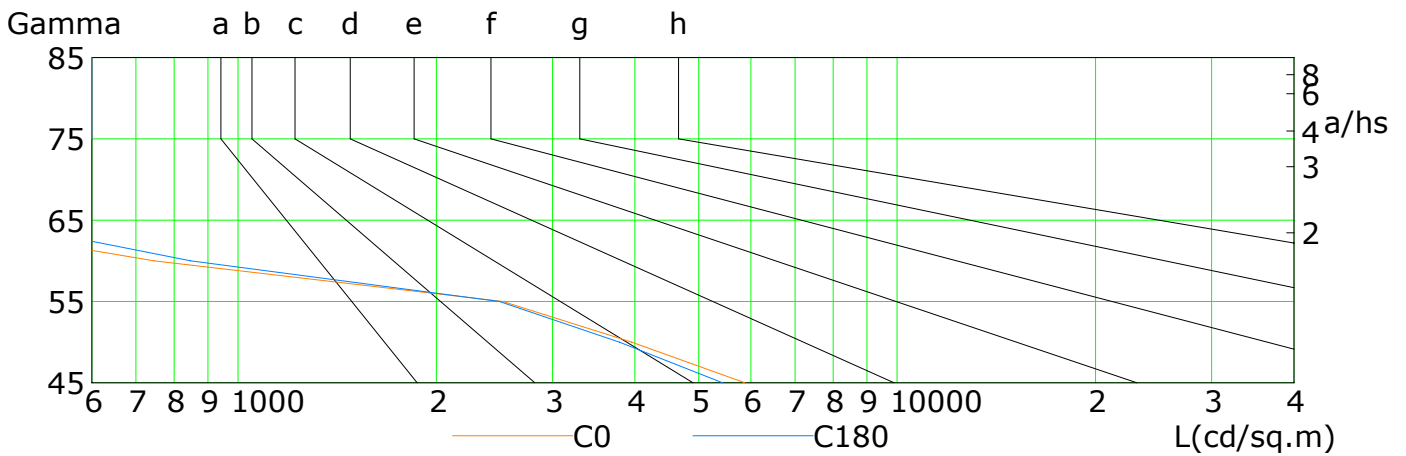
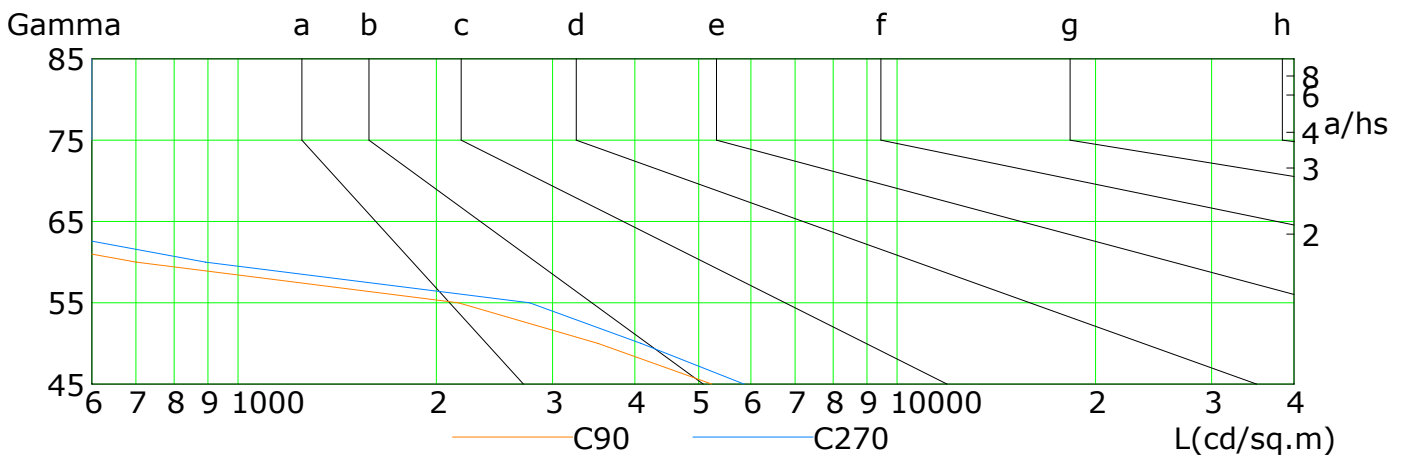
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5874	3957	2522	746	321	116	0	0	0
C90	5234	3516	2158	701	321	116	0	0	0
C180	5434	3789	2492	847	414	182	0	0	0
C270	5858	4088	2769	892	414	166	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

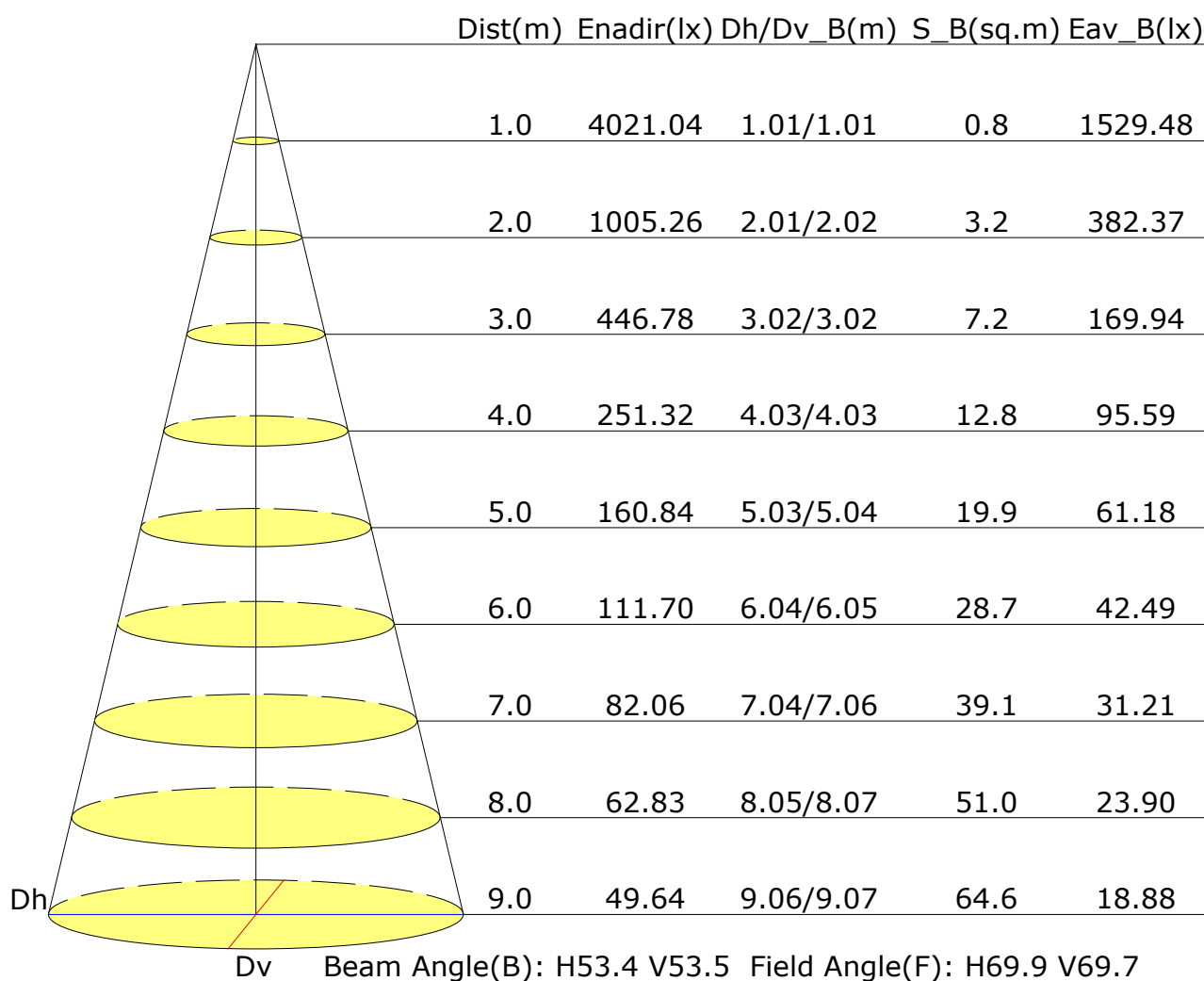
Humidity:

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Page 7 of 16 Pages

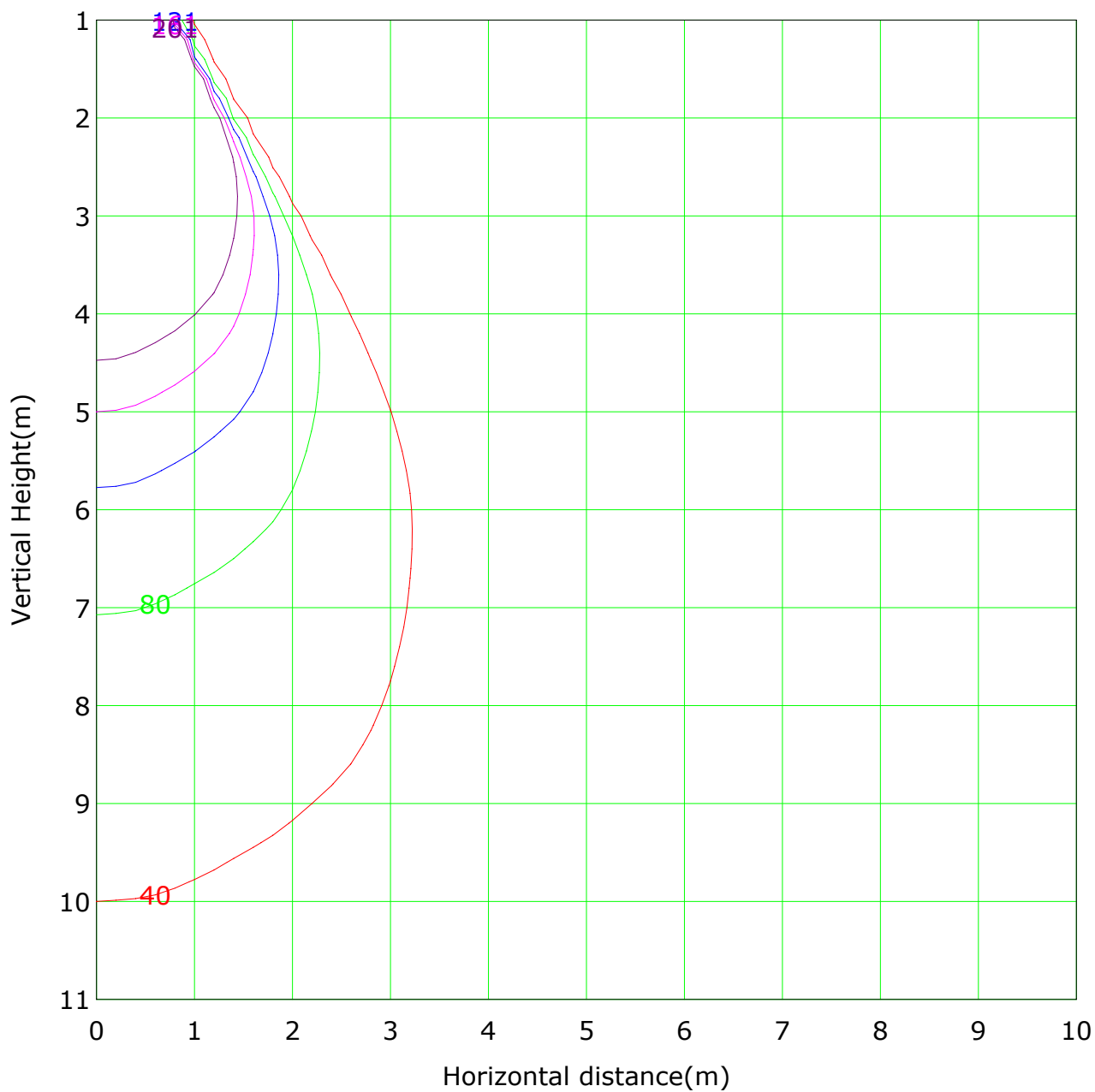
Illuminance at a Distance



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

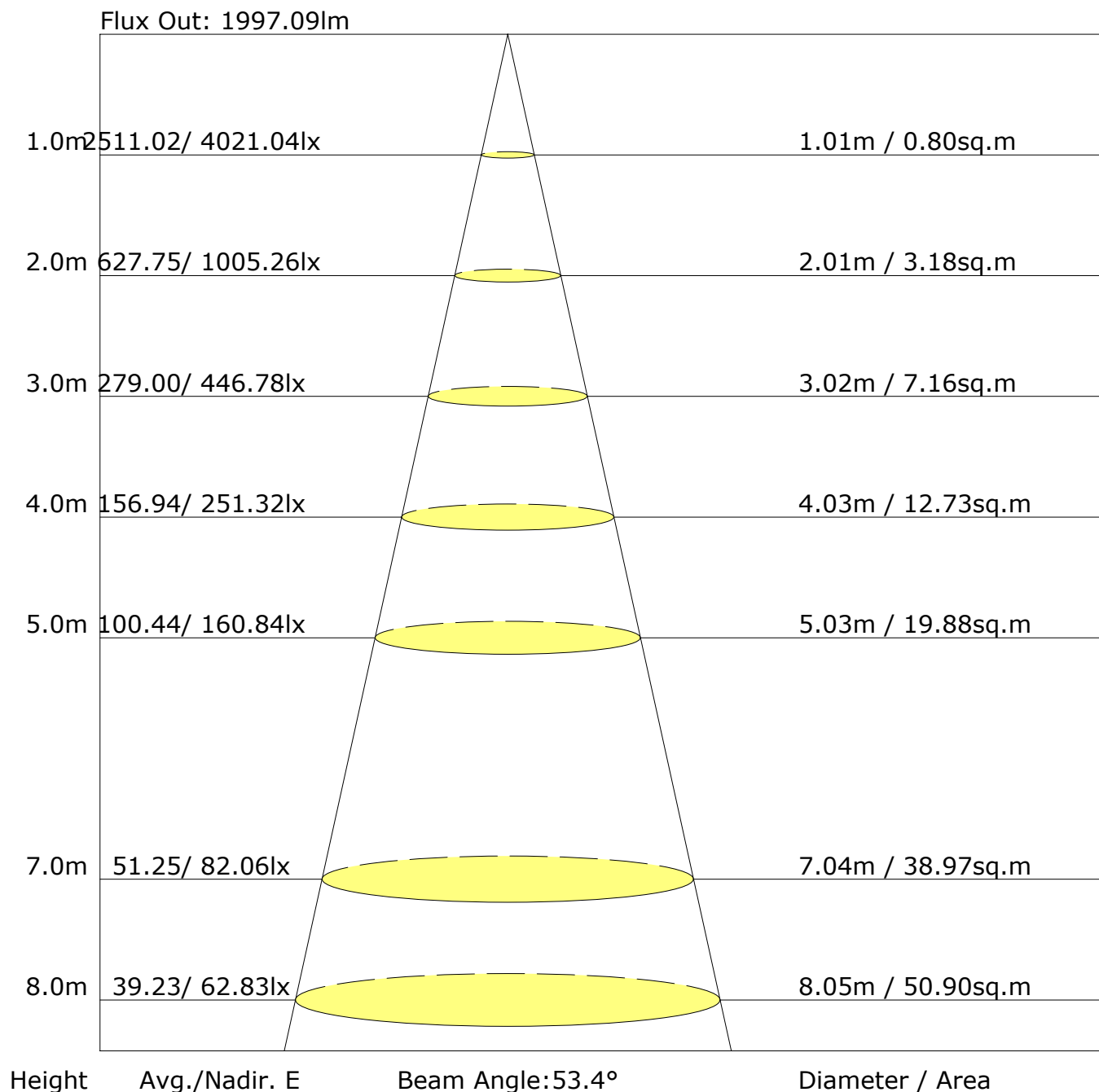
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4021.0 lx
— (1%): 40.2 lx — (2%): 80.4 lx
— (3%): 120.6 lx — (4%): 160.8 lx
— (5%): 201.1 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	-0.2	0.7	0.2	1.0	1.3	-1.4	-0.5	-1.0	-0.2	0.2	
3H	-0.4	0.4	-0.0	0.7	1.1	-1.6	-0.8	-1.2	-0.4	-0.0	
4H	-0.5	0.2	-0.1	0.6	1.0	-1.7	-0.9	-1.3	-0.6	-0.2	
6H	-0.6	0.1	-0.2	0.4	0.8	-1.8	-1.1	-1.4	-0.7	-0.3	
8H	-0.7	-0.0	-0.2	0.3	0.8	-1.8	-1.2	-1.4	-0.8	-0.4	
12H	-0.7	-0.1	-0.3	0.2	0.7	-1.9	-1.3	-1.5	-0.9	-0.5	
X=4H Y=2H	-0.5	0.3	-0.1	0.6	1.0	-1.6	-0.9	-1.2	-0.5	-0.2	
3H	-0.7	-0.1	-0.3	0.3	0.7	-1.8	-1.2	-1.4	-0.8	-0.4	
4H	-0.8	-0.3	-0.4	0.2	0.6	-1.9	-1.4	-1.5	-1.0	-0.5	
6H	-0.9	-0.5	-0.5	-0.0	0.5	-2.1	-1.6	-1.6	-1.2	-0.7	
8H	-1.0	-0.6	-0.5	-0.1	0.4	-2.1	-1.7	-1.7	-1.3	-0.8	
12H	-1.1	-0.7	-0.6	-0.2	0.3	-2.2	-1.8	-1.7	-1.4	-0.9	
X=8H Y=4H	-1.0	-0.6	-0.5	-0.1	0.4	-2.1	-1.7	-1.7	-1.3	-0.8	
6H	-1.1	-0.8	-0.6	-0.3	0.2	-2.3	-1.9	-1.8	-1.4	-0.9	
8H	-1.2	-0.9	-0.7	-0.4	0.1	-2.3	-2.1	-1.8	-1.5	-1.0	
12H	-1.3	-1.0	-0.7	-0.5	0.1	-2.4	-2.2	-1.9	-1.7	-1.1	
X=12H Y=4H	-1.1	-0.7	-0.6	-0.2	0.3	-2.2	-1.8	-1.7	-1.4	-0.9	
6H	-1.2	-0.9	-0.7	-0.4	0.1	-2.3	-2.0	-1.8	-1.6	-1.0	
8H	-1.3	-1.0	-0.7	-0.5	0.1	-2.4	-2.2	-1.9	-1.7	-1.1	

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:

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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	4007.3	3.8	3.8	0.14	0.14
1.0-2.0	4000.6	11.5	15.3	0.42	0.56
2.0-3.0	3984.7	19.1	34.4	0.70	1.27
3.0-4.0	3959.2	26.5	60.9	0.98	2.24
4.0-5.0	3928.6	33.8	94.7	1.24	3.48
5.0-6.0	3889.8	40.9	135.6	1.50	4.99
6.0-7.0	3842.8	47.7	183.3	1.76	6.75
7.0-8.0	3790.6	54.3	237.5	2.00	8.74
8.0-9.0	3739.4	60.6	298.1	2.23	10.97
9.0-10.0	3689.9	66.8	364.9	2.46	13.43
10.0-11.0	3638.0	72.7	437.6	2.68	16.11
11.0-12.0	3581.2	78.3	515.9	2.88	18.99
12.0-13.0	3518.2	83.5	599.4	3.07	22.06
13.0-14.0	3452.8	88.4	687.8	3.25	25.32
14.0-15.0	3383.7	92.9	780.7	3.42	28.74
15.0-16.0	3307.7	96.9	877.7	3.57	32.30
16.0-17.0	3223.4	100.4	978.1	3.70	36.00
17.0-18.0	3129.5	103.2	1081.3	3.80	39.80
18.0-19.0	3026.5	105.3	1186.6	3.88	43.67
19.0-20.0	2913.5	106.7	1293.2	3.93	47.60
20.0-21.0	2794.2	107.3	1400.5	3.95	51.55
21.0-22.0	2668.7	107.3	1507.8	3.95	55.50
22.0-23.0	2540.5	106.6	1614.4	3.92	59.42
23.0-24.0	2414.9	105.6	1720.0	3.89	63.31
24.0-25.0	2288.6	104.1	1824.1	3.83	67.14
25.0-26.0	2160.4	102.0	1926.1	3.75	70.89
26.0-27.0	2033.3	99.5	2025.5	3.66	74.55
27.0-28.0	1903.1	96.4	2121.9	3.55	78.10
28.0-29.0	1758.0	92.0	2213.9	3.39	81.48
29.0-30.0	1590.6	85.9	2299.8	3.16	84.65
30.0-31.0	1392.8	77.5	2377.3	2.85	87.50
31.0-32.0	1161.6	66.6	2443.9	2.45	89.95
32.0-33.0	907.3	53.5	2497.3	1.97	91.92
33.0-34.0	662.9	40.1	2537.5	1.48	93.39
34.0-35.0	466.5	29.0	2566.4	1.07	94.46
35.0-36.0	332.7	21.2	2587.6	0.78	95.24

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	250.6	16.3	2604.0	0.60	95.84
37.0-38.0	198.9	13.3	2617.2	0.49	96.33
38.0-39.0	163.0	11.1	2628.4	0.41	96.74
39.0-40.0	136.2	9.5	2637.9	0.35	97.09
40.0-41.0	115.6	8.2	2646.1	0.30	97.39
41.0-42.0	99.8	7.3	2653.4	0.27	97.66
42.0-43.0	87.7	6.5	2659.8	0.24	97.90
43.0-44.0	78.3	5.9	2665.8	0.22	98.12
44.0-45.0	70.5	5.4	2671.2	0.20	98.31
45.0-46.0	63.8	5.0	2676.2	0.18	98.50
46.0-47.0	58.1	4.6	2680.8	0.17	98.67
47.0-48.0	52.9	4.3	2685.1	0.16	98.83
48.0-49.0	48.2	4.0	2689.0	0.15	98.97
49.0-50.0	43.8	3.7	2692.7	0.13	99.11
50.0-51.0	39.7	3.4	2696.0	0.12	99.23
51.0-52.0	35.9	3.1	2699.1	0.11	99.34
52.0-53.0	32.3	2.8	2701.9	0.10	99.45
53.0-54.0	28.9	2.5	2704.5	0.09	99.54
54.0-55.0	25.7	2.3	2706.8	0.08	99.62
55.0-56.0	22.6	2.0	2708.8	0.08	99.70
56.0-57.0	19.5	1.8	2710.6	0.07	99.77
57.0-58.0	16.0	1.5	2712.1	0.05	99.82
58.0-59.0	11.3	1.1	2713.1	0.04	99.86
59.0-60.0	7.6	0.7	2713.8	0.03	99.88
60.0-61.0	6.2	0.6	2714.4	0.02	99.91
61.0-62.0	5.2	0.5	2714.9	0.02	99.92
62.0-63.0	4.3	0.4	2715.3	0.02	99.94
63.0-64.0	3.5	0.3	2715.7	0.01	99.95
64.0-65.0	2.9	0.3	2716.0	0.01	99.96
65.0-66.0	2.4	0.2	2716.2	0.01	99.97
66.0-67.0	1.9	0.2	2716.4	0.01	99.98
67.0-68.0	1.5	0.2	2716.6	0.01	99.99
68.0-69.0	1.2	0.1	2716.7	0.00	99.99
69.0-70.0	1.0	0.1	2716.8	0.00	99.99
70.0-71.0	0.7	0.1	2716.9	0.00	100.00
71.0-72.0	0.5	0.1	2716.9	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:

Page 14 of 16 Pages

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	4021.0	3997.1	4021.0	3997.1	4021.0					
G1.0	4014.4	3993.7	4022.3	3992.1	4014.4					
G2.0	4006.8	3985.5	4009.9	3980.3	4006.8					
G3.0	3995.8	3958.6	3985.3	3955.0	3995.8					
G4.0	3963.9	3928.6	3957.5	3929.1	3963.9					
G5.0	3922.4	3901.0	3926.1	3900.2	3922.4					
G6.0	3875.4	3847.4	3883.2	3863.0	3875.4					
G7.0	3828.0	3799.4	3838.5	3807.7	3828.0					
G8.0	3771.7	3743.1	3784.2	3752.4	3771.7					
G9.0	3720.1	3696.8	3740.1	3706.7	3720.1					
G10.0	3674.3	3640.4	3692.0	3649.1	3674.3					
G11.0	3622.3	3583.5	3639.9	3602.1	3622.3					
G12.0	3565.2	3518.3	3569.5	3548.8	3565.2					
G13.0	3494.6	3444.0	3515.5	3489.9	3494.6					
G14.0	3435.5	3373.1	3449.6	3420.4	3435.5					
G15.0	3371.8	3301.5	3367.2	3350.2	3371.8					
G16.0	3306.1	3219.7	3273.0	3271.8	3306.1					
G17.0	3226.0	3122.7	3178.8	3189.2	3226.0					
G18.0	3128.9	3024.6	3073.6	3092.5	3128.9					
G19.0	3028.5	2920.6	2956.4	2987.2	3028.5					
G20.0	2912.4	2810.7	2829.4	2862.8	2912.4					
G21.0	2797.5	2696.9	2698.7	2744.9	2797.5					
G22.0	2672.3	2568.2	2560.6	2610.7	2672.3					
G23.0	2546.0	2445.5	2434.1	2486.8	2546.0					
G24.0	2421.8	2318.6	2306.8	2359.7	2421.8					
G25.0	2287.0	2203.1	2181.9	2229.8	2287.0					
G26.0	2155.4	2073.8	2050.3	2101.9	2155.4					
G27.0	2026.8	1958.0	1918.8	1981.2	2026.8					
G28.0	1892.2	1821.3	1774.9	1851.4	1892.2					
G29.0	1743.3	1665.6	1616.3	1698.9	1743.3					
G30.0	1572.0	1480.0	1422.5	1525.9	1572.0					
G31.0	1375.2	1258.2	1187.4	1321.5	1375.2					
G32.0	1144.6	998.6	933.7	1074.0	1144.6					
G33.0	887.6	722.7	675.9	821.0	887.6					
G34.0	633.8	506.0	477.1	579.4	633.8					
G35.0	446.4	352.4	337.0	400.1	446.4					
G36.0	321.6	263.7	253.5	286.9	321.6					

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 15 of 16 Pages

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	243.6	208.8	202.2	224.2	243.6					
G38.0	194.8	170.2	165.5	182.2	194.8					
G39.0	162.0	140.4	138.0	151.0	162.0					
G40.0	135.7	117.7	116.8	127.8	135.7					
G41.0	115.4	100.8	100.6	109.9	115.4					
G42.0	99.4	87.6	89.2	95.7	99.4					
G43.0	87.6	77.4	79.4	85.6	87.6					
G44.0	78.2	69.4	71.4	77.2	78.2					
G45.0	70.2	62.5	64.9	70.0	70.2					
G46.0	63.4	56.6	59.3	63.7	63.4					
G47.0	57.6	51.4	54.2	58.5	57.6					
G48.0	52.1	46.7	49.5	53.3	52.1					
G49.0	47.6	42.2	45.1	48.9	47.6					
G50.0	43.0	38.2	41.2	44.4	43.0					
G51.0	38.7	34.2	37.3	40.7	38.7					
G52.0	34.8	30.6	33.8	37.0	34.8					
G53.0	31.1	27.1	30.4	33.5	31.1					
G54.0	27.7	23.9	27.2	30.1	27.7					
G55.0	24.5	20.9	24.2	26.8	24.5					
G56.0	21.2	18.0	21.2	23.7	21.2					
G57.0	18.0	15.1	18.0	20.4	18.0					
G58.0	14.1	11.0	14.4	16.6	14.1					
G59.0	7.9	7.2	8.7	10.3	7.9					
G60.0	6.3	5.9	7.2	7.5	6.3					
G61.0	5.3	5.0	6.0	6.2	5.3					
G62.0	4.4	4.2	5.2	5.3	4.4					
G63.0	3.5	3.3	4.1	4.4	3.5					
G64.0	3.0	2.8	3.6	3.6	3.0					
G65.0	2.3	2.3	3.0	3.0	2.3					
G66.0	1.8	1.9	2.4	2.4	1.8					
G67.0	1.5	1.4	1.9	2.0	1.5					
G68.0	1.1	1.2	1.5	1.5	1.1					
G69.0	0.9	1.0	1.2	1.2	0.9					
G70.0	0.7	0.7	1.0	1.0	0.7					
G71.0	0.5	0.5	0.7	0.7	0.5					
G72.0	0.3	0.3	0.6	0.5	0.3					
G73.0	0.1	0.2	0.3	0.4	0.1					

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

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: