

Tel:
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Report No.:

Test Time: 2017-07-29 14:33

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 3000k
Luminous Length (mm): 130
Voltage: 219.7 V
Power: 30.30 W

Luminaire Description: DLC0530-B830 38D
Lamp Description: T1204C430M2
Luminous Width (mm): 130
Current: 0.143 A
Power Factor: 0.965

Photometric Results

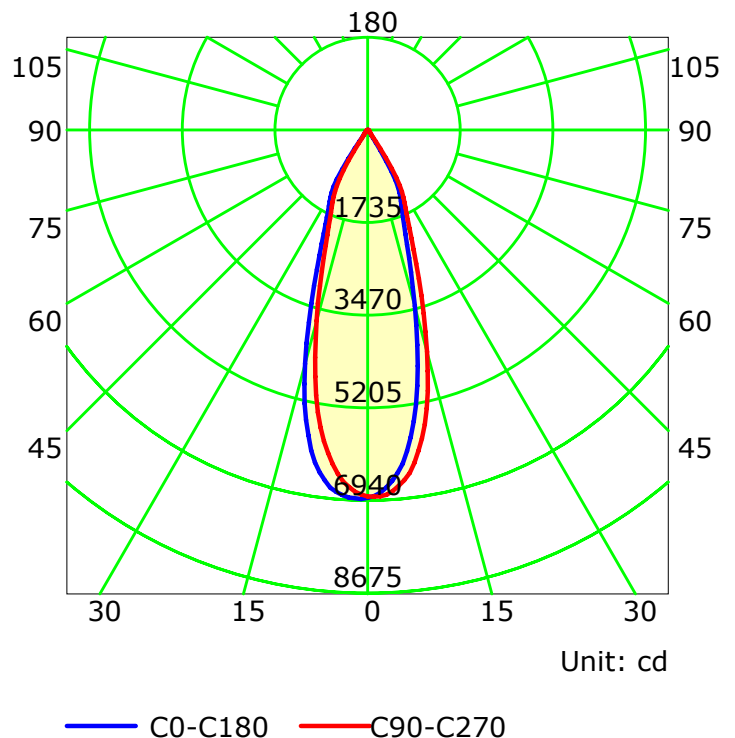
CIE Class: Direct
Measurement Flux: 2751.2 lm
Downward Ratio: 100%
Field Angle: H64.8 V64.7
Luminaire Efficacy Rating (LER): 91
Max. Intensity: 6912.15 cd

Total Rated Lamp Lumens: 2751.2 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H32.8 V33.3
Central Intensity: 6886.86 cd
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



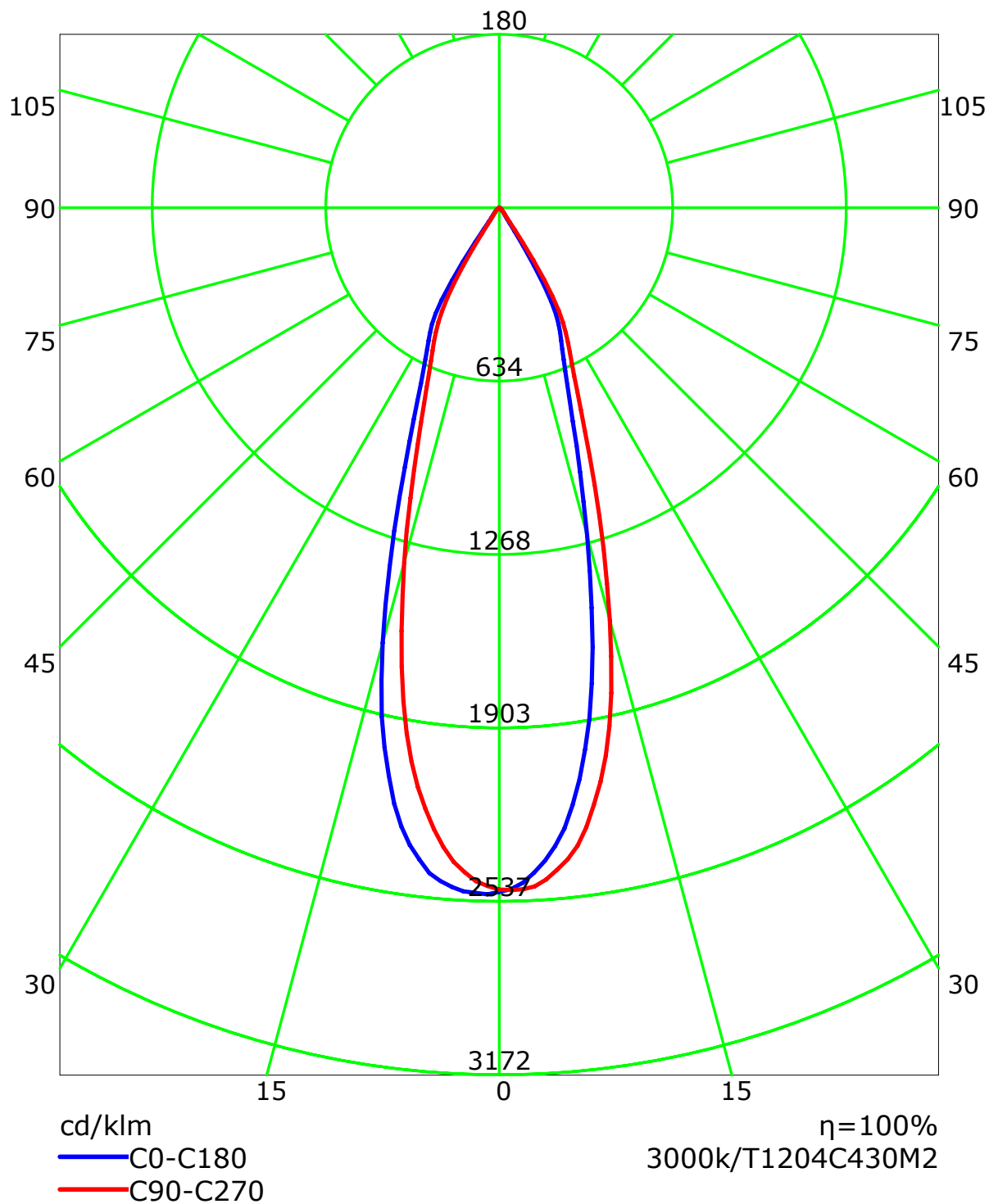
Luminous Intensity Distribution Curve



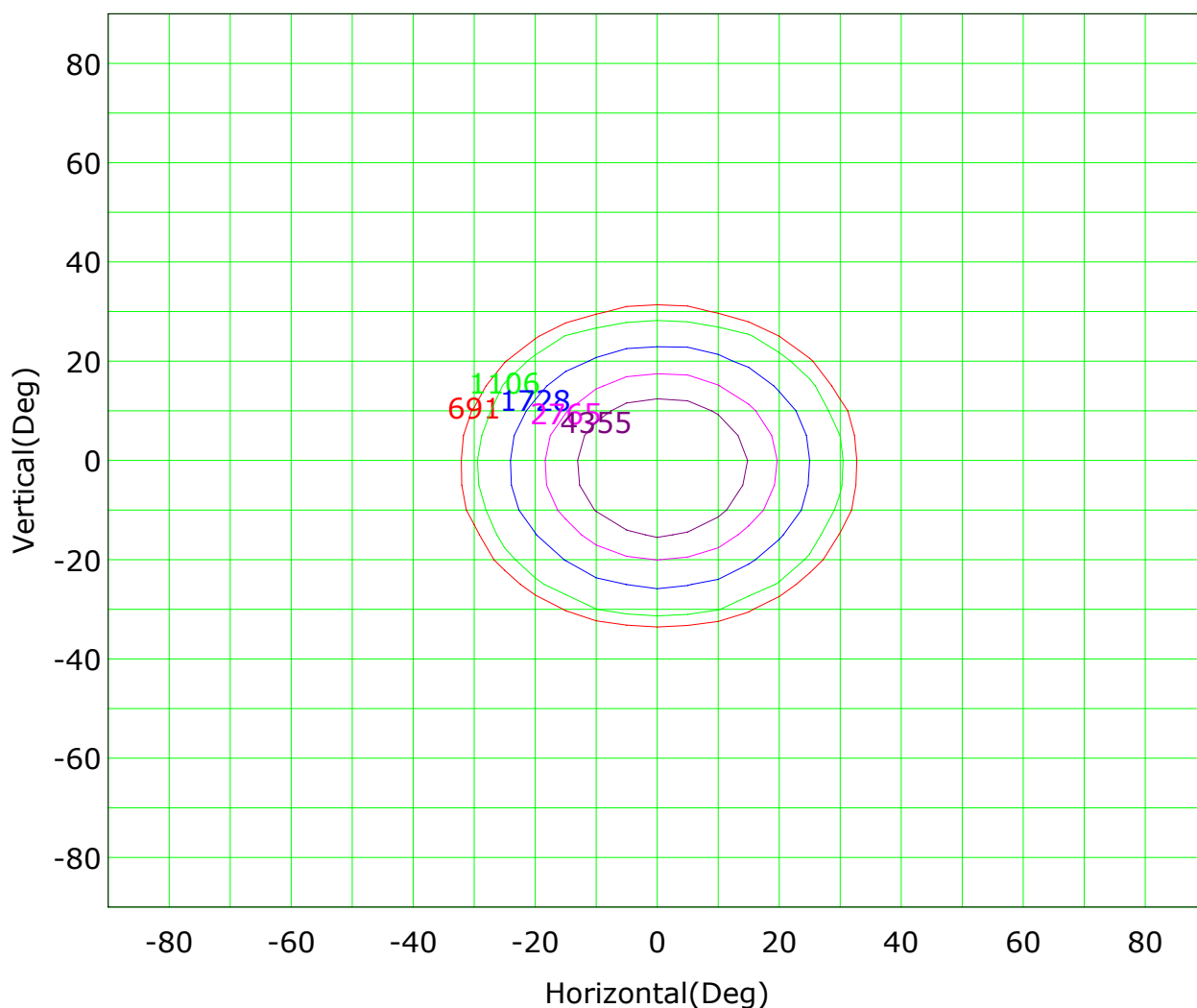
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



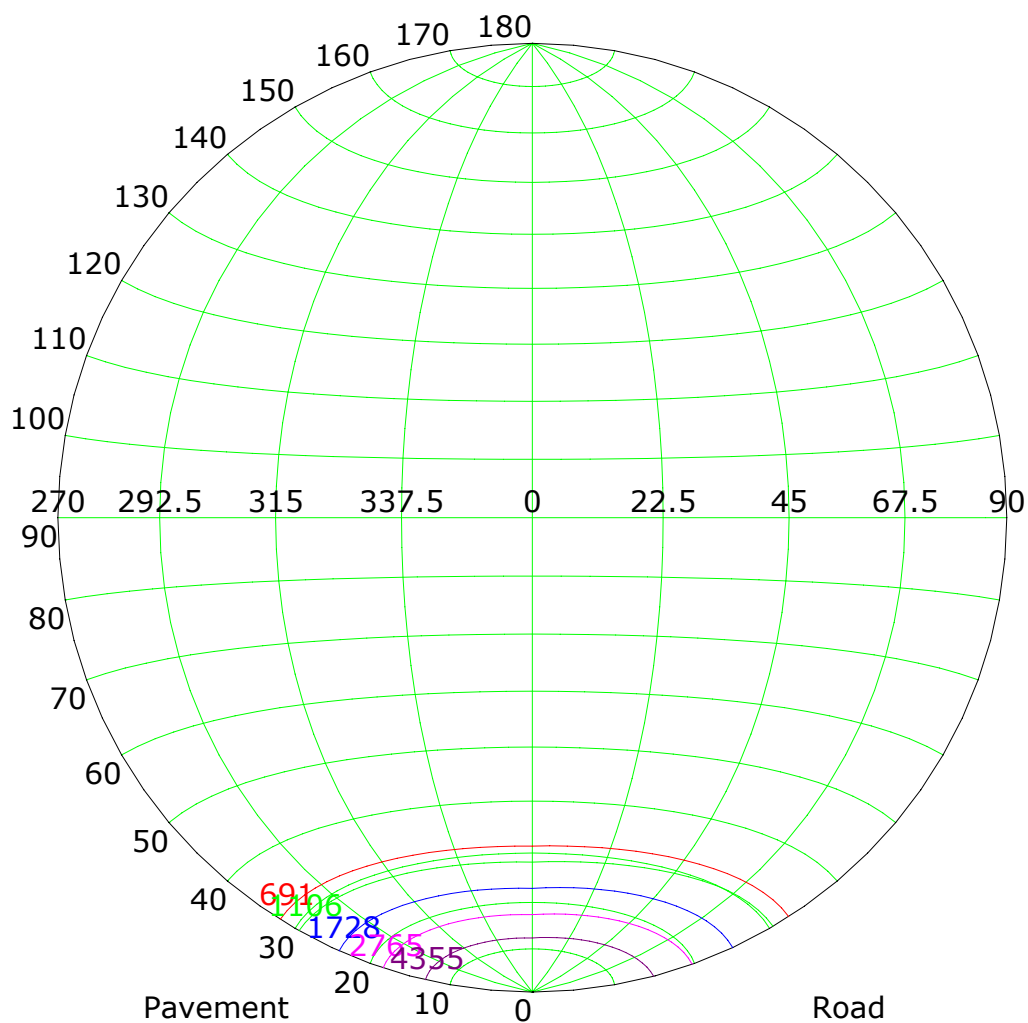
Isocandela (rectangle)



Imax (100%): 6912 cd

(10%): 691 cd	(16%): 1106 cd
(25%): 1728 cd	(40%): 2765 cd
(63%): 4355 cd	(100%): 6912 cd

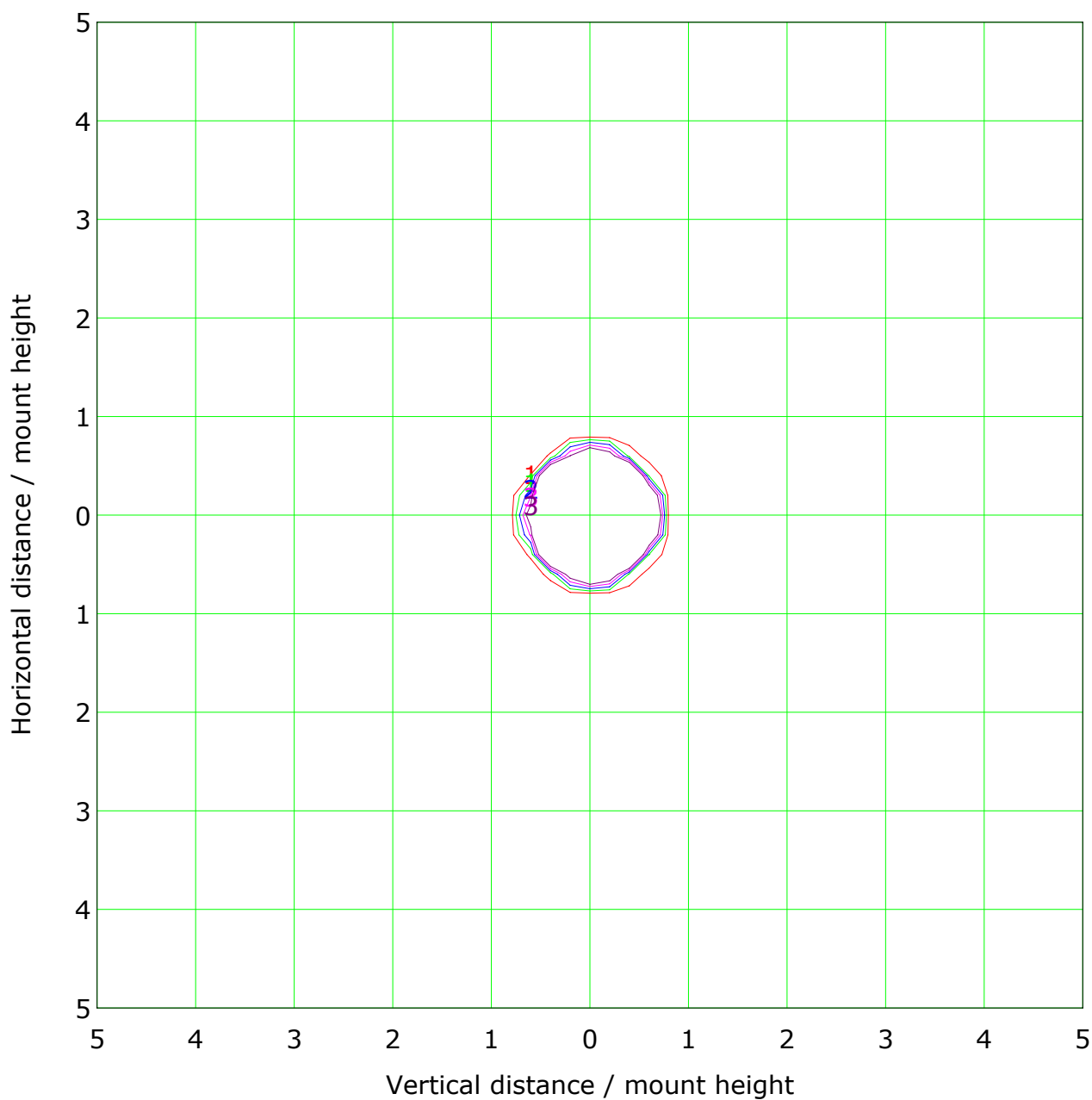
Isocandela (sphere)



Imax (100%): 6912 cd

(10%): 691 cd	(16%): 1106 cd
(25%): 1728 cd	(40%): 2765 cd
(63%): 4355 cd	(100%): 6912 cd

IsoLux Plot

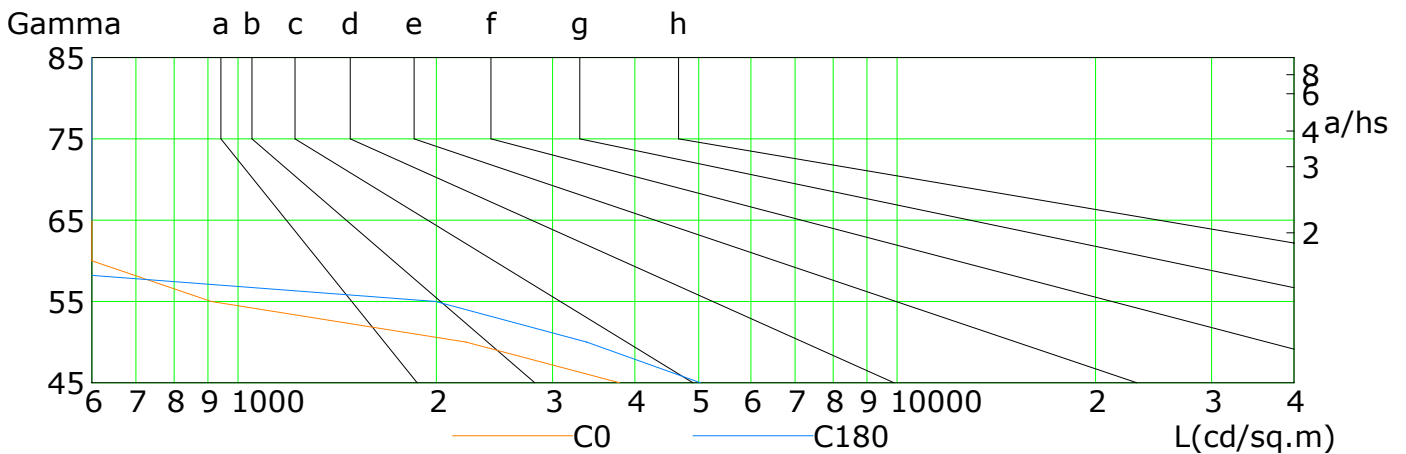
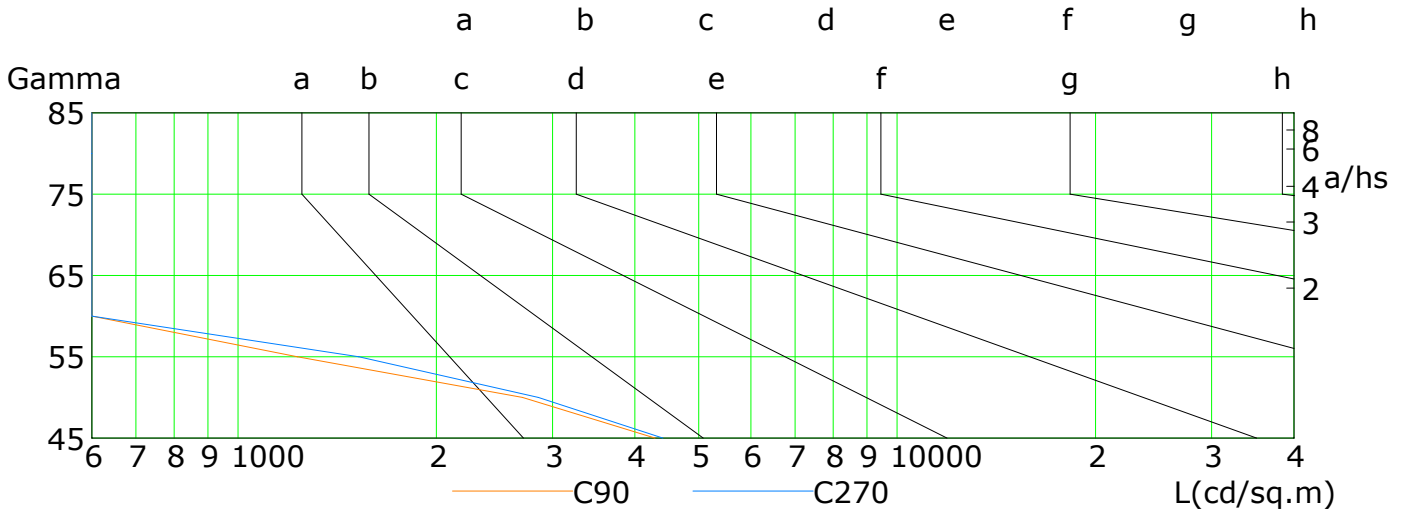


Mounting Height: 10.0m Max Lux(100%): 69.1 lx

(1%): 0.7 lx	(2%): 1.4 lx
(3%): 2.1 lx	(4%): 2.8 lx
(5%): 3.5 lx	

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	3794	2219	911	0	0	0	0	0	0
C90	4293	2702	1231	0	0	0	0	0	0
C180	5032	3383	1994	310	0	0	0	0	0
C270	4413	2856	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

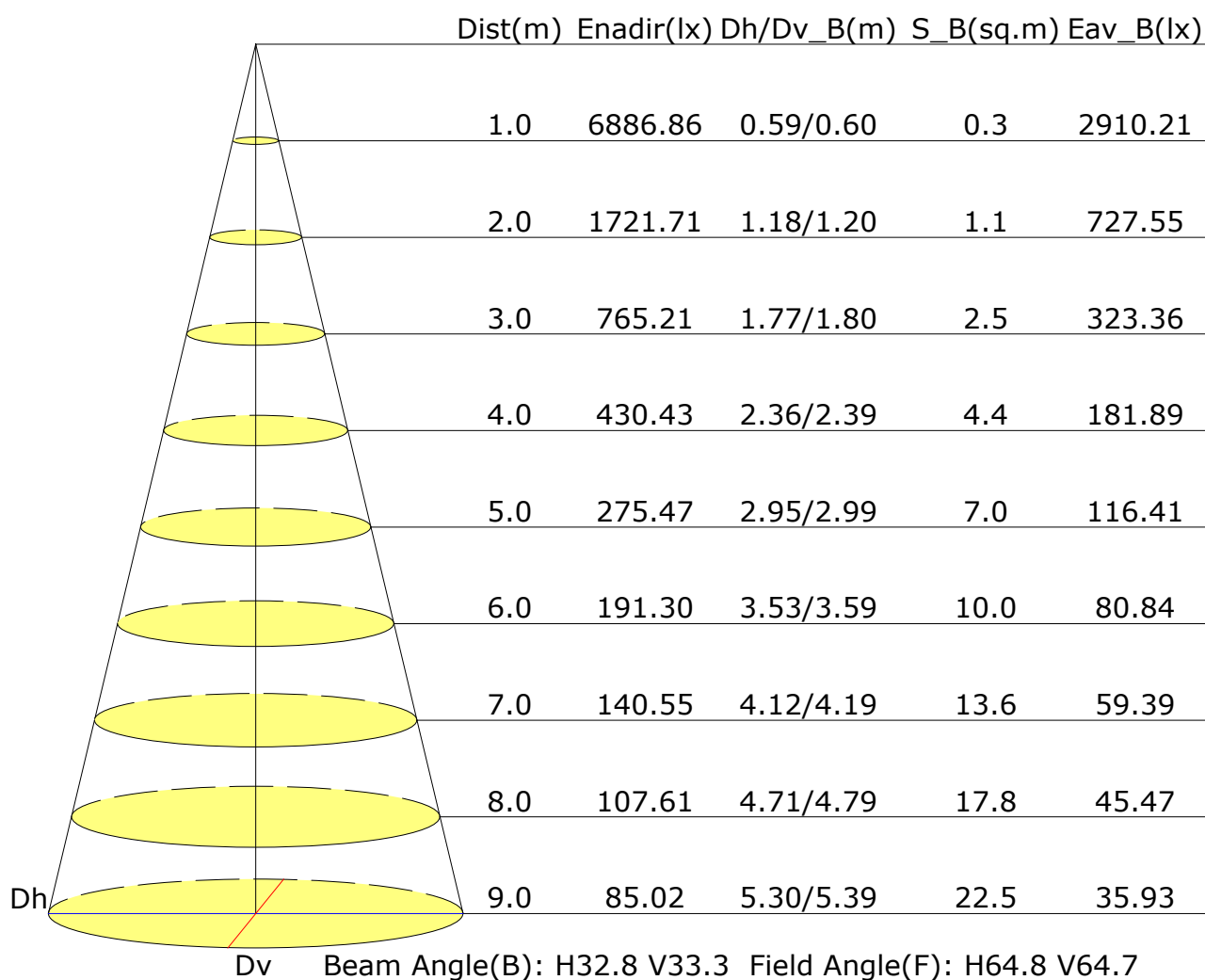
Humidity:

Inspector:

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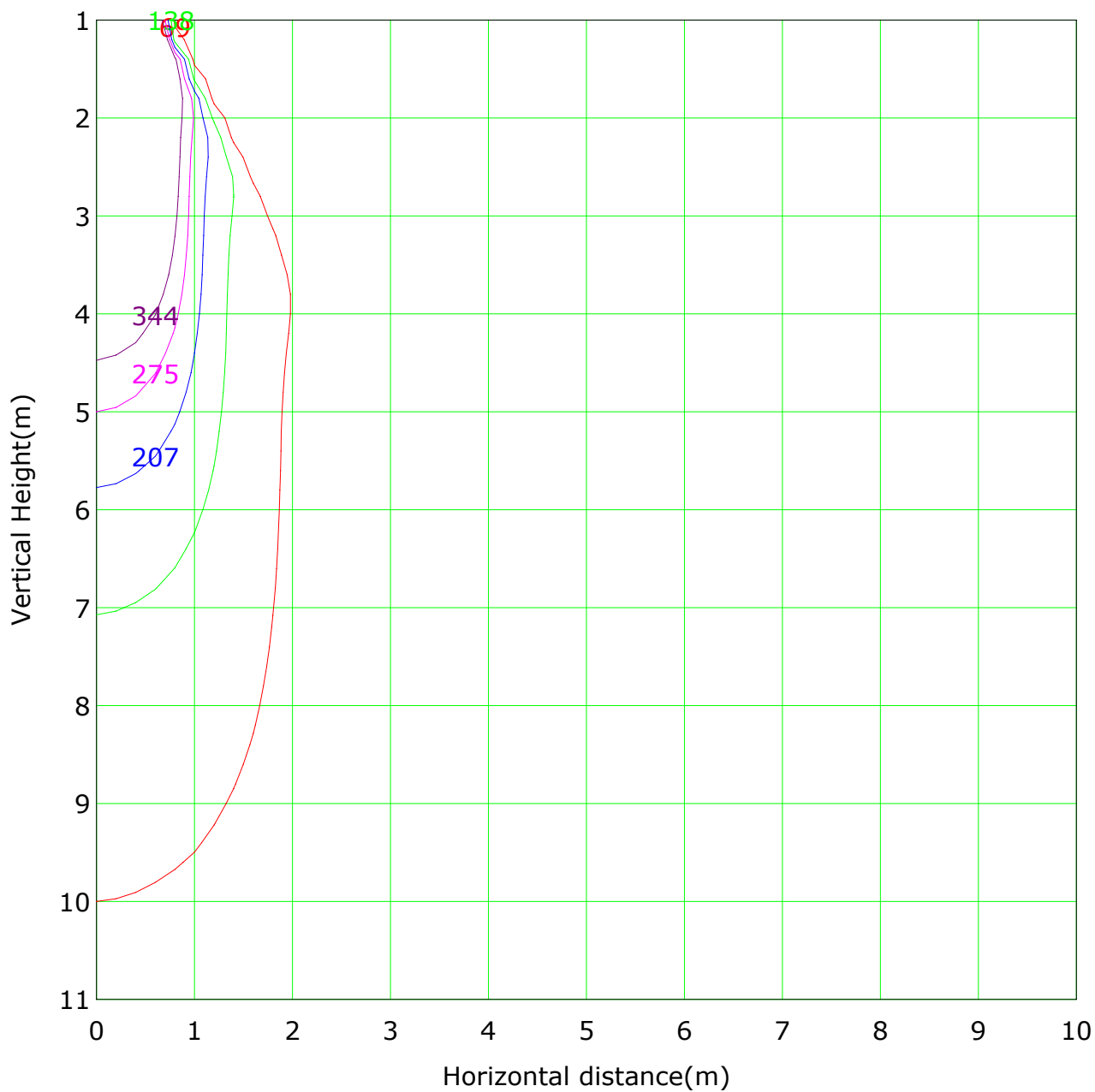
Illuminance at a Distance



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

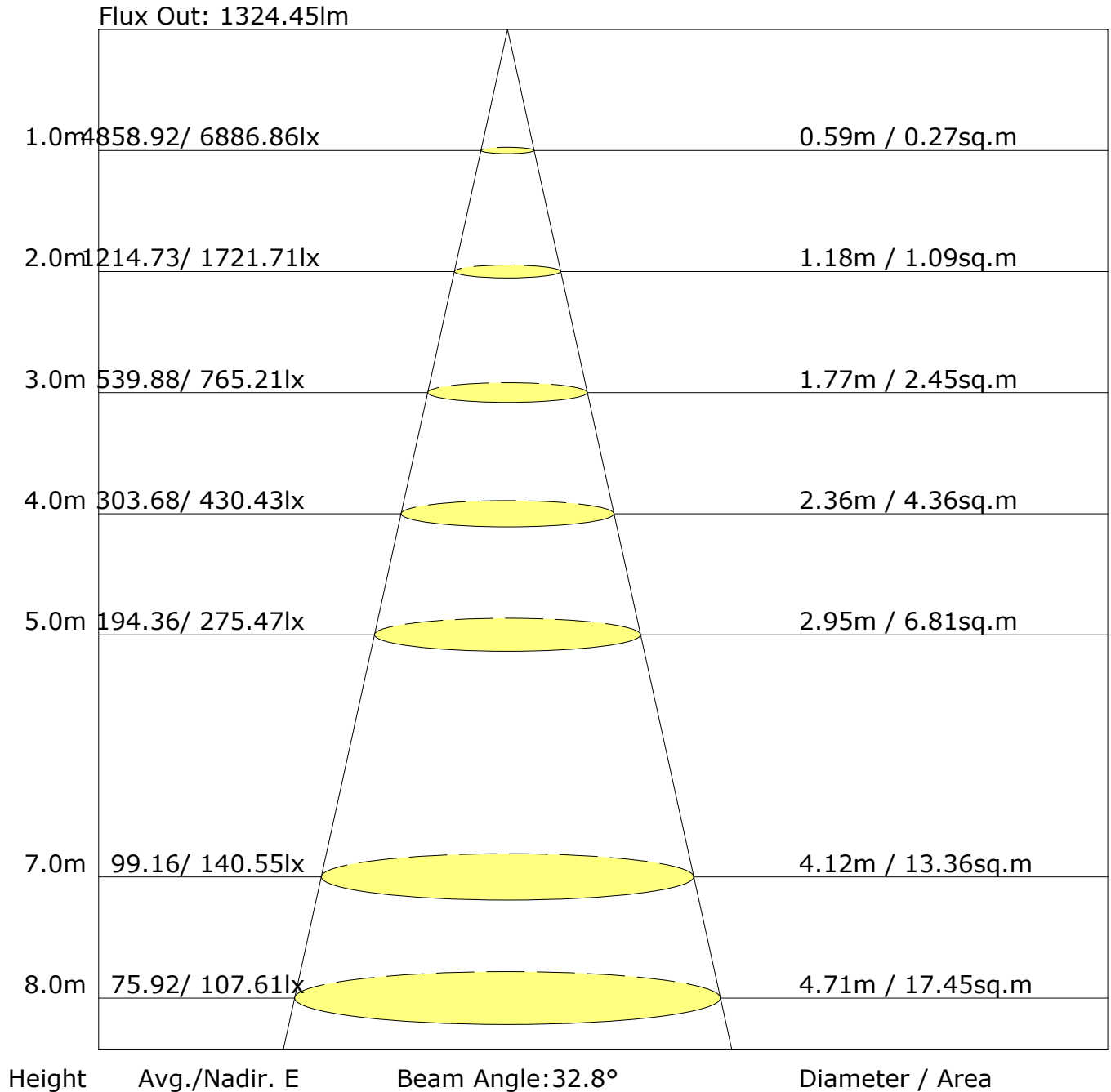
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 6886.9 lx
— (1%): 68.9 lx — (2%): 137.7 lx
— (3%): 206.6 lx — (4%): 275.5 lx
— (5%): 344.3 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	-19.6	-18.7	-19.2	-18.4	-18.1	-8.4	-7.5	-8.1	-7.2	-6.9
3H	-19.8	-19.0	-19.4	-18.7	-18.3	-8.6	-7.8	-8.3	-7.5	-7.1
4H	-19.9	-19.2	-19.5	-18.8	-18.5	-8.7	-8.0	-8.3	-7.7	-7.3
6H	-20.1	-19.4	-19.6	-19.0	-18.6	-8.9	-8.2	-8.4	-7.8	-7.4
8H	-20.1	-19.5	-19.7	-19.1	-18.7	-8.9	-8.3	-8.5	-7.9	-7.5
12H	-20.2	-19.6	-19.7	-19.2	-18.8	-9.0	-8.4	-8.5	-8.0	-7.6
X=4H Y=2H	-19.9	-19.2	-19.5	-18.8	-18.5	-8.7	-8.0	-8.3	-7.7	-7.3
3H	-20.2	-19.6	-19.7	-19.2	-18.8	-9.0	-8.4	-8.6	-8.0	-7.6
4H	-20.3	-19.8	-19.9	-19.3	-18.9	-9.1	-8.6	-8.7	-8.1	-7.7
6H	-20.4	-20.0	-19.9	-19.5	-19.0	-9.2	-8.8	-8.7	-8.3	-7.8
8H	-20.5	-20.1	-20.0	-19.6	-19.1	-9.3	-8.9	-8.8	-8.4	-8.0
12H	-20.6	-20.2	-20.1	-19.7	-19.2	-9.4	-9.0	-8.9	-8.5	-8.0
X=8H Y=4H	-20.5	-20.1	-20.0	-19.6	-19.1	-9.3	-8.9	-8.8	-8.4	-8.0
6H	-20.6	-20.3	-20.1	-19.8	-19.3	-9.4	-9.1	-8.9	-8.6	-8.1
8H	-20.7	-20.4	-20.2	-19.9	-19.4	-9.5	-9.2	-9.0	-8.7	-8.2
12H	-20.8	-20.5	-20.2	-20.0	-19.4	-9.6	-9.3	-9.0	-8.8	-8.2
X=12H Y=4H	-20.6	-20.2	-20.1	-19.7	-19.2	-9.4	-9.0	-8.9	-8.5	-8.0
6H	-20.7	-20.4	-20.2	-19.9	-19.4	-9.5	-9.2	-9.0	-8.7	-8.2
8H	-20.8	-20.5	-20.2	-20.0	-19.4	-9.6	-9.3	-9.0	-8.8	-8.2

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:

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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	6871.1	6.6	6.6	0.24	0.24
1.0-2.0	6852.1	19.7	26.2	0.71	0.95
2.0-3.0	6809.7	32.6	58.8	1.18	2.14
3.0-4.0	6743.8	45.1	104.0	1.64	3.78
4.0-5.0	6652.6	57.2	161.2	2.08	5.86
5.0-6.0	6537.8	68.7	229.9	2.50	8.36
6.0-7.0	6391.9	79.3	309.3	2.88	11.24
7.0-8.0	6212.8	88.9	398.2	3.23	14.47
8.0-9.0	6003.5	97.3	495.5	3.54	18.01
9.0-10.0	5764.7	104.3	599.8	3.79	21.80
10.0-11.0	5492.9	109.8	709.6	3.99	25.79
11.0-12.0	5189.1	113.4	823.1	4.12	29.92
12.0-13.0	4862.9	115.4	938.5	4.20	34.11
13.0-14.0	4515.3	115.6	1054.1	4.20	38.31
14.0-15.0	4162.3	114.3	1168.4	4.15	42.47
15.0-16.0	3812.0	111.7	1280.1	4.06	46.53
16.0-17.0	3468.5	108.0	1388.1	3.93	50.45
17.0-18.0	3147.6	103.8	1491.9	3.77	54.23
18.0-19.0	2850.9	99.2	1591.1	3.61	57.83
19.0-20.0	2581.4	94.5	1685.6	3.43	61.27
20.0-21.0	2345.7	90.1	1775.7	3.27	64.54
21.0-22.0	2145.0	86.2	1861.9	3.13	67.67
22.0-23.0	1974.7	82.9	1944.7	3.01	70.69
23.0-24.0	1827.7	79.9	2024.7	2.90	73.59
24.0-25.0	1705.2	77.5	2102.2	2.82	76.41
25.0-26.0	1601.6	75.6	2177.8	2.75	79.16
26.0-27.0	1507.4	73.8	2251.6	2.68	81.84
27.0-28.0	1414.2	71.6	2323.2	2.60	84.44
28.0-29.0	1313.3	68.7	2391.9	2.50	86.94
29.0-30.0	1192.1	64.4	2456.3	2.34	89.28
30.0-31.0	1042.7	58.0	2514.3	2.11	91.39
31.0-32.0	865.6	49.6	2563.9	1.80	93.19
32.0-33.0	669.5	39.4	2603.4	1.43	94.63
33.0-34.0	481.7	29.2	2632.5	1.06	95.69
34.0-35.0	327.0	20.3	2652.8	0.74	96.42
35.0-36.0	217.4	13.8	2666.7	0.50	96.93

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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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	153.2	10.0	2676.7	0.36	97.29
37.0-38.0	119.7	8.0	2684.7	0.29	97.58
38.0-39.0	101.4	6.9	2691.6	0.25	97.83
39.0-40.0	89.7	6.3	2697.8	0.23	98.06
40.0-41.0	80.8	5.8	2703.6	0.21	98.27
41.0-42.0	73.2	5.3	2708.9	0.19	98.46
42.0-43.0	66.5	4.9	2713.8	0.18	98.64
43.0-44.0	60.5	4.6	2718.4	0.17	98.81
44.0-45.0	55.0	4.2	2722.6	0.15	98.96
45.0-46.0	49.9	3.9	2726.5	0.14	99.10
46.0-47.0	44.9	3.6	2730.1	0.13	99.23
47.0-48.0	40.3	3.3	2733.4	0.12	99.35
48.0-49.0	36.2	3.0	2736.3	0.11	99.46
49.0-50.0	32.2	2.7	2739.0	0.10	99.56
50.0-51.0	28.4	2.4	2741.4	0.09	99.64
51.0-52.0	24.8	2.1	2743.6	0.08	99.72
52.0-53.0	21.5	1.9	2745.4	0.07	99.79
53.0-54.0	18.2	1.6	2747.0	0.06	99.85
54.0-55.0	15.1	1.4	2748.4	0.05	99.90
55.0-56.0	12.0	1.1	2749.5	0.04	99.94
56.0-57.0	8.7	0.8	2750.3	0.03	99.97
57.0-58.0	5.8	0.5	2750.8	0.02	99.98
58.0-59.0	3.0	0.3	2751.1	0.01	99.99
59.0-60.0	1.2	0.1	2751.2	0.00	100.00
60.0-61.0	0.3	0.0	2751.2	0.00	100.00
61.0-62.0	0.0	0.0	2751.2	0.00	100.00
62.0-63.0	0.0	0.0	2751.2	0.00	100.00
63.0-64.0	0.0	0.0	2751.2	0.00	100.00
64.0-65.0	0.0	0.0	2751.2	0.00	100.00
65.0-66.0	0.0	0.0	2751.2	0.00	100.00
66.0-67.0	0.0	0.0	2751.2	0.00	100.00
67.0-68.0	0.0	0.0	2751.2	0.00	100.00
68.0-69.0	0.0	0.0	2751.2	0.00	100.00
69.0-70.0	0.0	0.0	2751.2	0.00	100.00
70.0-71.0	0.0	0.0	2751.2	0.00	100.00
71.0-72.0	0.0	0.0	2751.2	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	6886.9	6863.2	6886.9	6863.2	6886.9					
G1.0	6860.1	6869.2	6912.1	6827.5	6860.1					
G2.0	6800.0	6864.7	6900.5	6782.4	6800.0					
G3.0	6703.4	6839.9	6891.2	6695.7	6703.4					
G4.0	6590.0	6778.0	6852.5	6599.8	6590.0					
G5.0	6449.2	6688.6	6802.4	6460.2	6449.2					
G6.0	6282.7	6593.4	6734.9	6290.8	6282.7					
G7.0	6057.4	6470.7	6609.1	6096.6	6057.4					
G8.0	5807.9	6296.5	6475.7	5888.5	5807.9					
G9.0	5522.7	6085.6	6304.9	5645.8	5522.7					
G10.0	5227.3	5867.0	6092.8	5371.7	5227.3					
G11.0	4878.9	5620.1	5824.8	5060.3	4878.9					
G12.0	4521.5	5332.3	5553.0	4721.7	4521.5					
G13.0	4133.3	5013.0	5256.9	4371.4	4133.3					
G14.0	3768.2	4654.4	4902.3	4022.5	3768.2					
G15.0	3417.9	4300.8	4534.4	3698.3	3417.9					
G16.0	3076.2	3933.8	4153.3	3381.1	3076.2					
G17.0	2782.7	3594.5	3771.1	3055.7	2782.7					
G18.0	2519.3	3260.2	3420.5	2777.0	2519.3					
G19.0	2272.6	2950.0	3085.0	2522.4	2272.6					
G20.0	2076.2	2660.5	2781.0	2303.8	2076.2					
G21.0	1911.5	2403.1	2518.3	2111.0	1911.5					
G22.0	1771.9	2193.8	2296.9	1953.3	1771.9					
G23.0	1659.8	2009.8	2105.5	1806.5	1659.8					
G24.0	1558.9	1853.3	1938.0	1690.1	1558.9					
G25.0	1476.5	1726.6	1808.2	1589.6	1476.5					
G26.0	1397.8	1619.7	1695.1	1499.4	1397.8					
G27.0	1316.4	1524.0	1598.5	1408.3	1316.4					
G28.0	1219.1	1426.7	1515.4	1305.0	1219.1					
G29.0	1085.7	1323.1	1439.6	1191.9	1085.7					
G30.0	897.7	1199.0	1353.9	1046.3	897.7					
G31.0	674.8	1042.5	1246.8	881.0	674.8					
G32.0	450.7	849.9	1094.5	684.3	450.7					
G33.0	282.5	628.0	879.3	486.3	282.5					
G34.0	186.1	425.7	652.1	313.5	186.1					
G35.0	139.8	267.0	427.8	203.5	139.8					
G36.0	115.5	175.9	264.6	145.3	115.5					

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	100.0	131.7	173.0	120.0	100.0					
G38.0	89.0	109.1	131.5	103.1	89.0					
G39.0	81.1	95.0	110.0	92.6	81.1					
G40.0	72.5	85.2	97.6	84.0	72.5					
G41.0	66.6	76.8	88.1	75.9	66.6					
G42.0	60.4	69.4	79.5	69.0	60.4					
G43.0	55.1	62.8	73.0	62.5	55.1					
G44.0	50.1	57.0	66.1	57.0	50.1					
G45.0	45.3	51.3	60.1	52.7	45.3					
G46.0	40.8	46.5	54.9	47.3	40.8					
G47.0	35.8	41.8	49.9	42.5	35.8					
G48.0	31.5	37.5	45.3	38.4	31.5					
G49.0	27.9	33.2	40.8	34.8	27.9					
G50.0	24.1	29.4	36.8	31.0	24.1					
G51.0	20.3	25.5	32.7	27.4	20.3					
G52.0	18.1	22.0	28.6	24.1	18.1					
G53.0	14.6	18.4	25.3	21.2	14.6					
G54.0	10.7	15.8	22.0	17.7	10.7					
G55.0	8.8	11.9	19.3	14.8	8.8					
G56.0	4.3	9.3	16.0	11.4	4.3					
G57.0	0.0	6.4	13.8	8.1	0.0					
G58.0	0.0	3.3	10.7	3.6	0.0					
G59.0	0.0	0.0	6.7	0.0	0.0					
G60.0	0.0	0.0	2.6	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

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: