

Tel:
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Report No.:

Test Time: 2017-07-29 11:19

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 3000k
Luminous Length (mm): 130
Voltage: 219.9 V
Power: 30.50 W

Luminaire Description: DLC0530-B830 24D
Lamp Description: T1204C430M2
Luminous Width (mm): 130
Current: 0.144 A
Power Factor: 0.965

Photometric Results

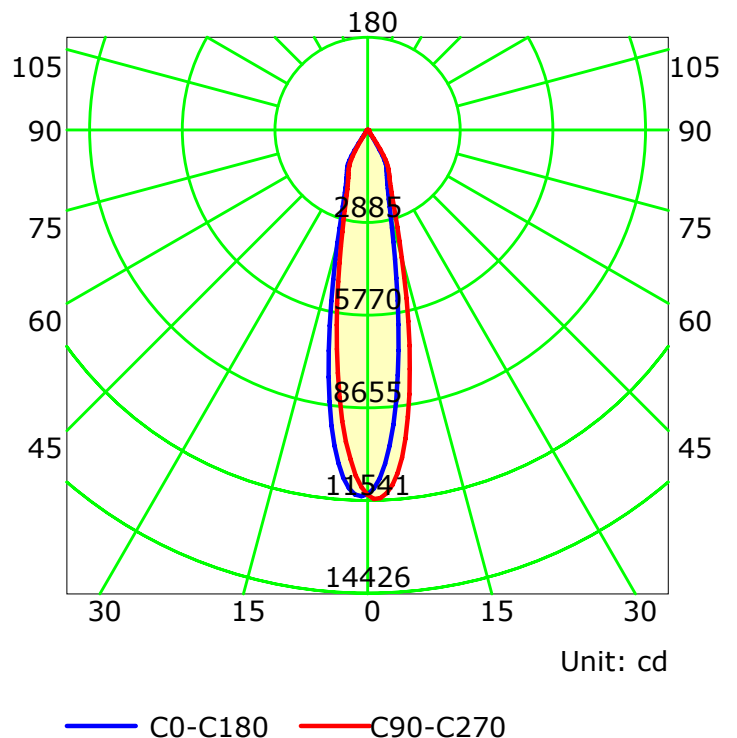
CIE Class: Direct
Measurement Flux: 2758.6 lm
Downward Ratio: 100%
Field Angle: H59.6 V58.8
Luminaire Efficacy Rating (LER): 90
Max. Intensity: 11494.5 cd

Total Rated Lamp Lumens: 2758.6 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H21.3 V22.2
Central Intensity: 11342.49 cd
Pos of Max. Intensity: H90 V1

Picture Of Luminaire



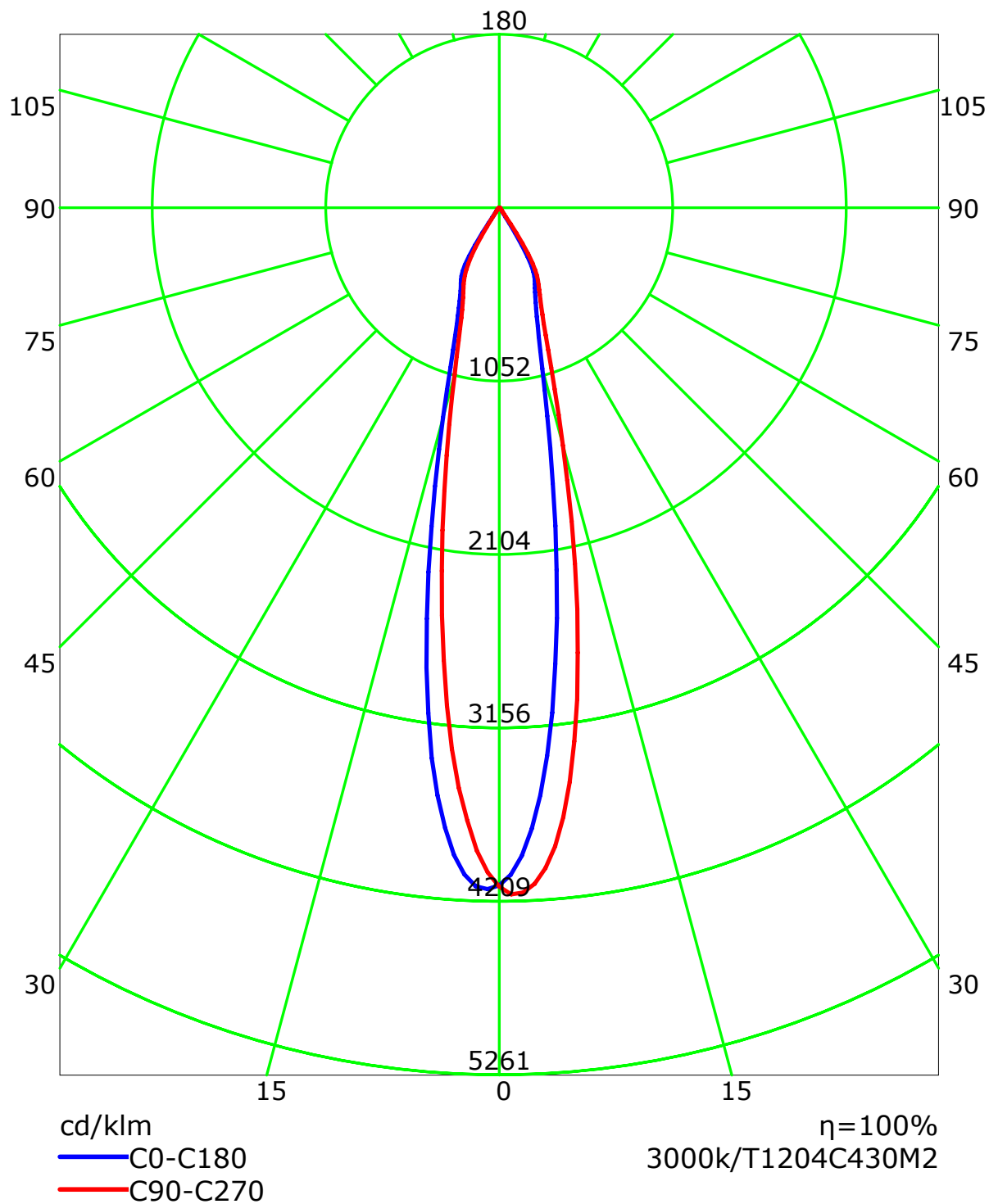
Luminous Intensity Distribution Curve



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:

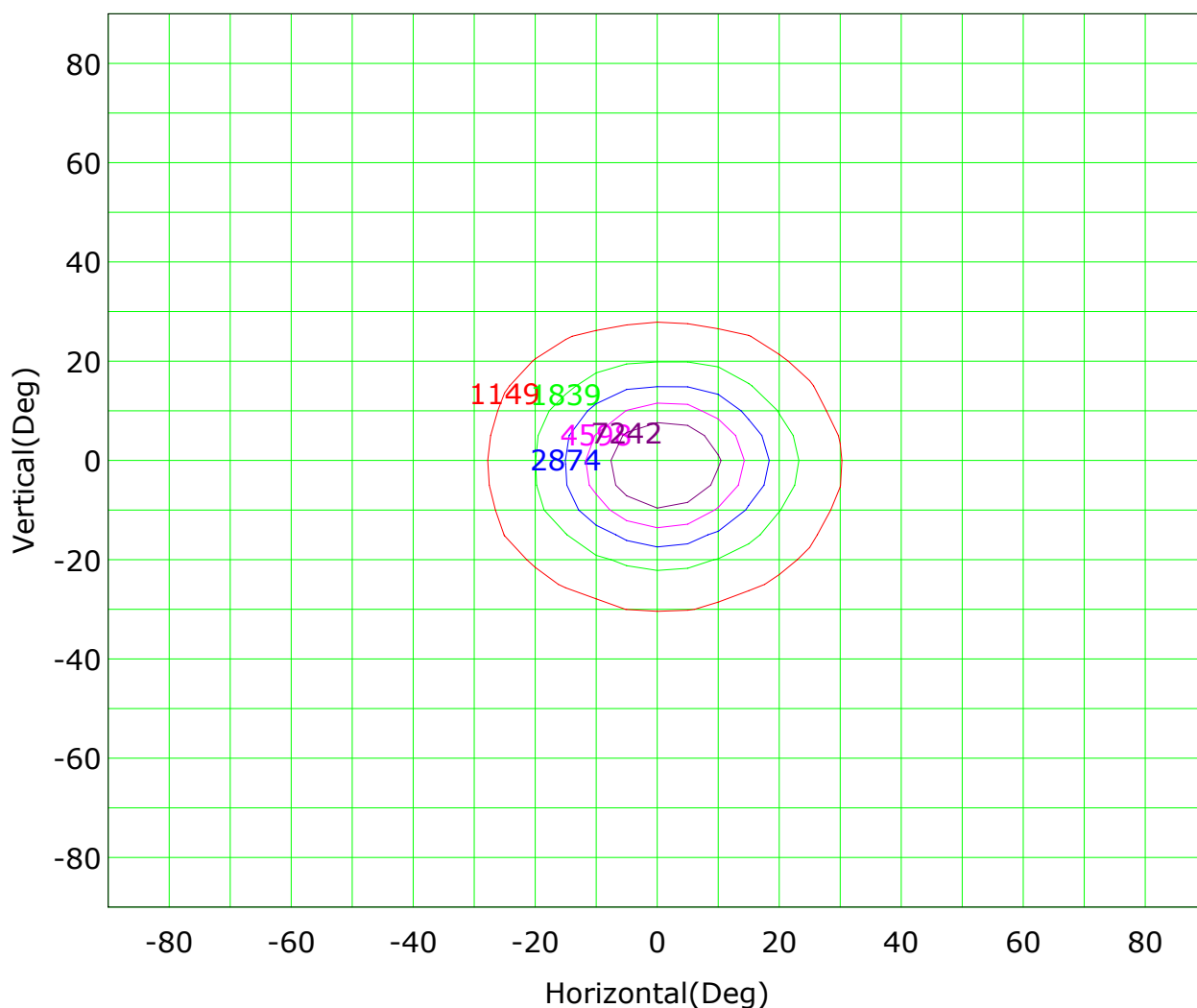
Luminous Intensity Distribution Curve(cd/klm)



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:

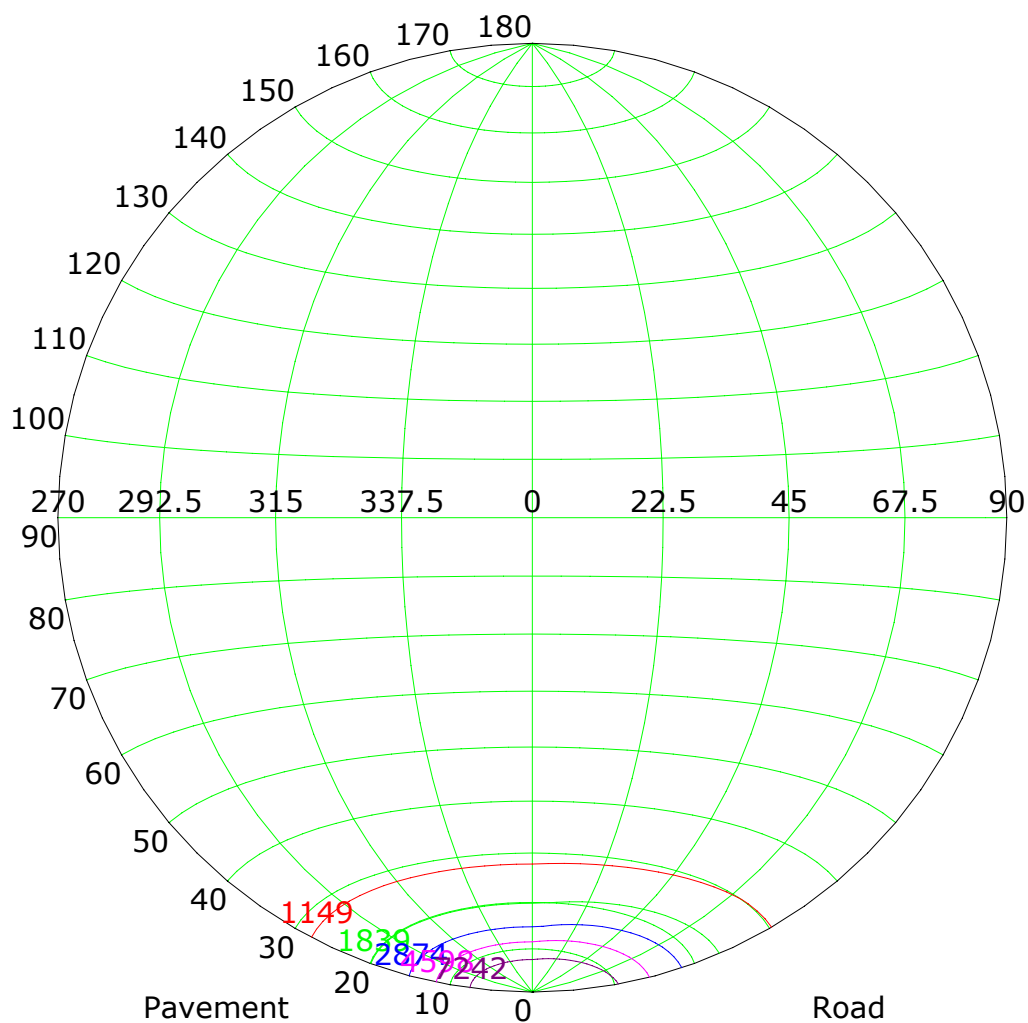
Isocandela (rectangle)



Imax (100%): 11494 cd

(10%): 1149 cd	(16%): 1839 cd
(25%): 2874 cd	(40%): 4598 cd
(63%): 7242 cd	(100%): 11494 cd

Isocandela (sphere)

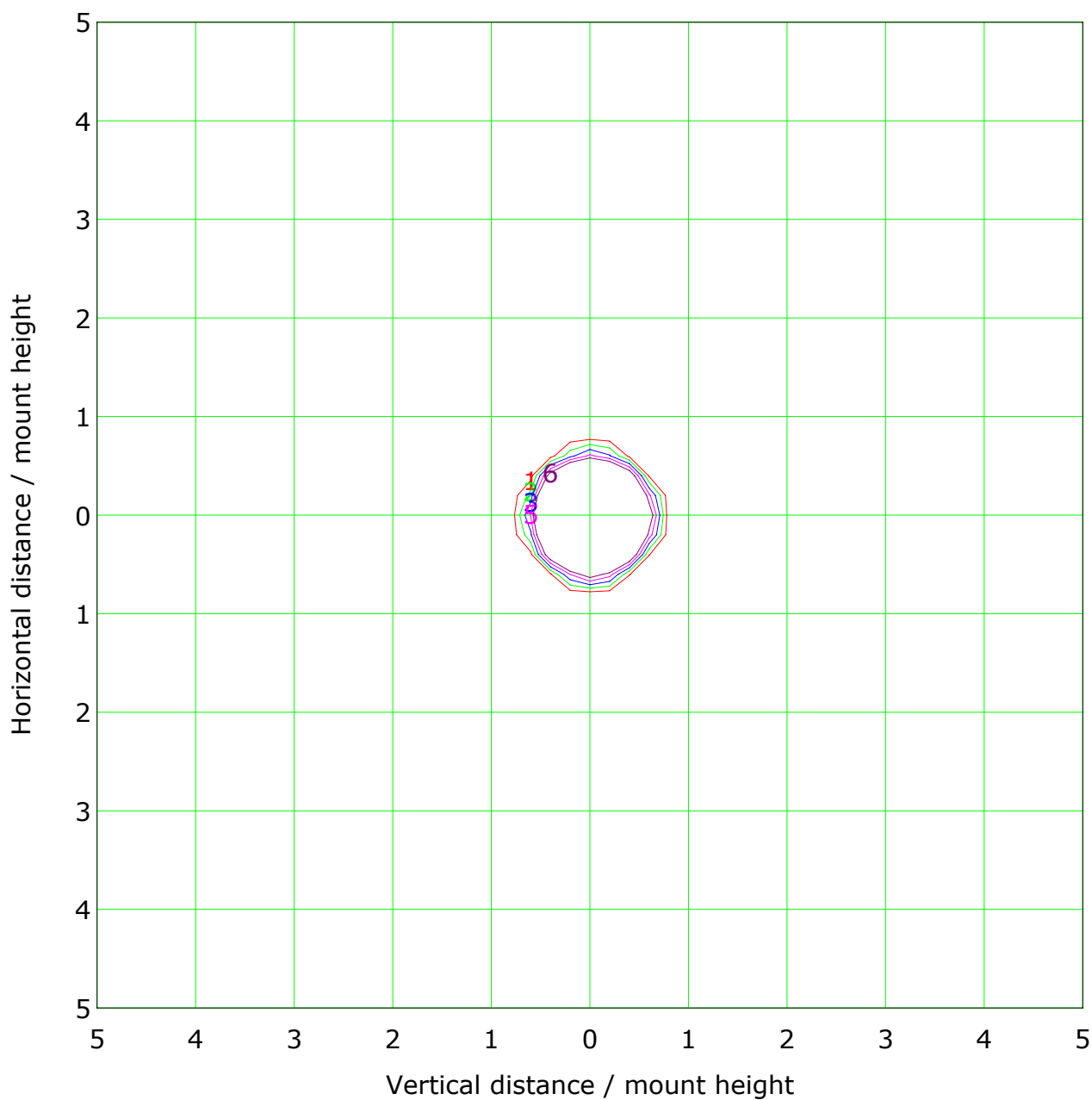


Imax (100%): 11494 cd

(10%): 1149 cd
(25%): 2874 cd
(63%): 7242 cd

(16%): 1839 cd
(40%): 4598 cd
(100%): 11494 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 114.9 lx

(1%): 1.1 lx	(2%): 2.3 lx
(3%): 3.4 lx	(4%): 4.6 lx
(5%): 5.7 lx	

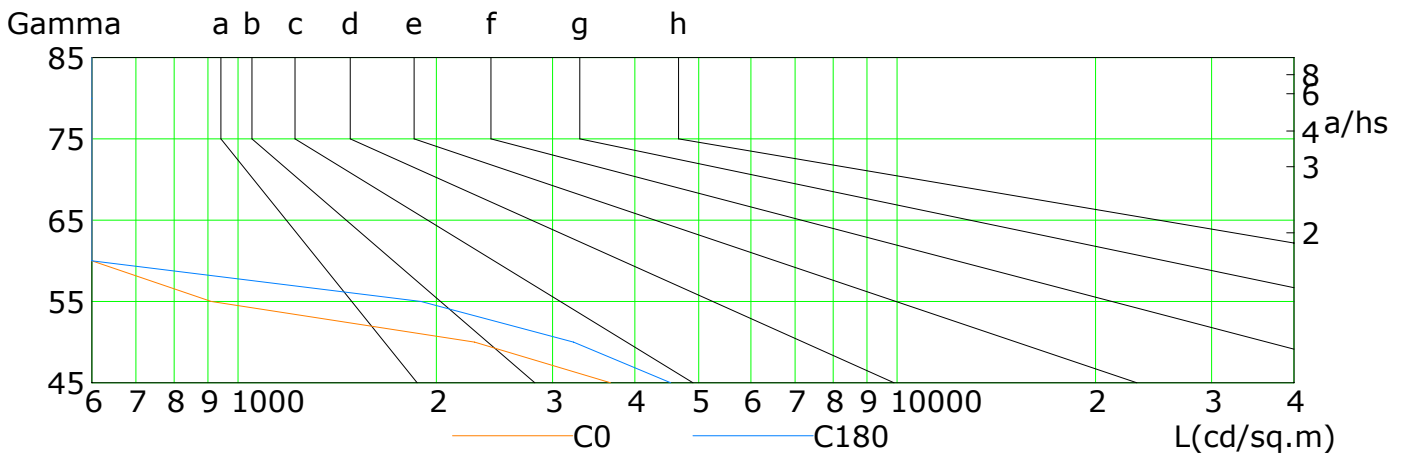
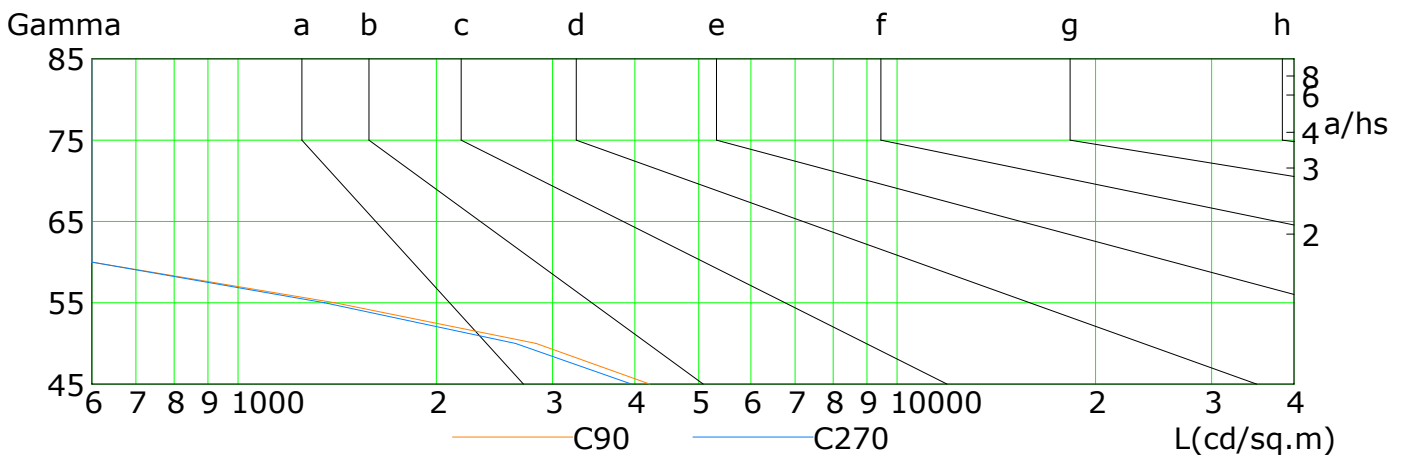
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	3674	2285	911	0	0	0	0	0	0
C90	4213	2833	1403	0	0	0	0	0	0
C180	4533	3229	1895	0	0	0	0	0	0
C270	3954	2636	1353	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

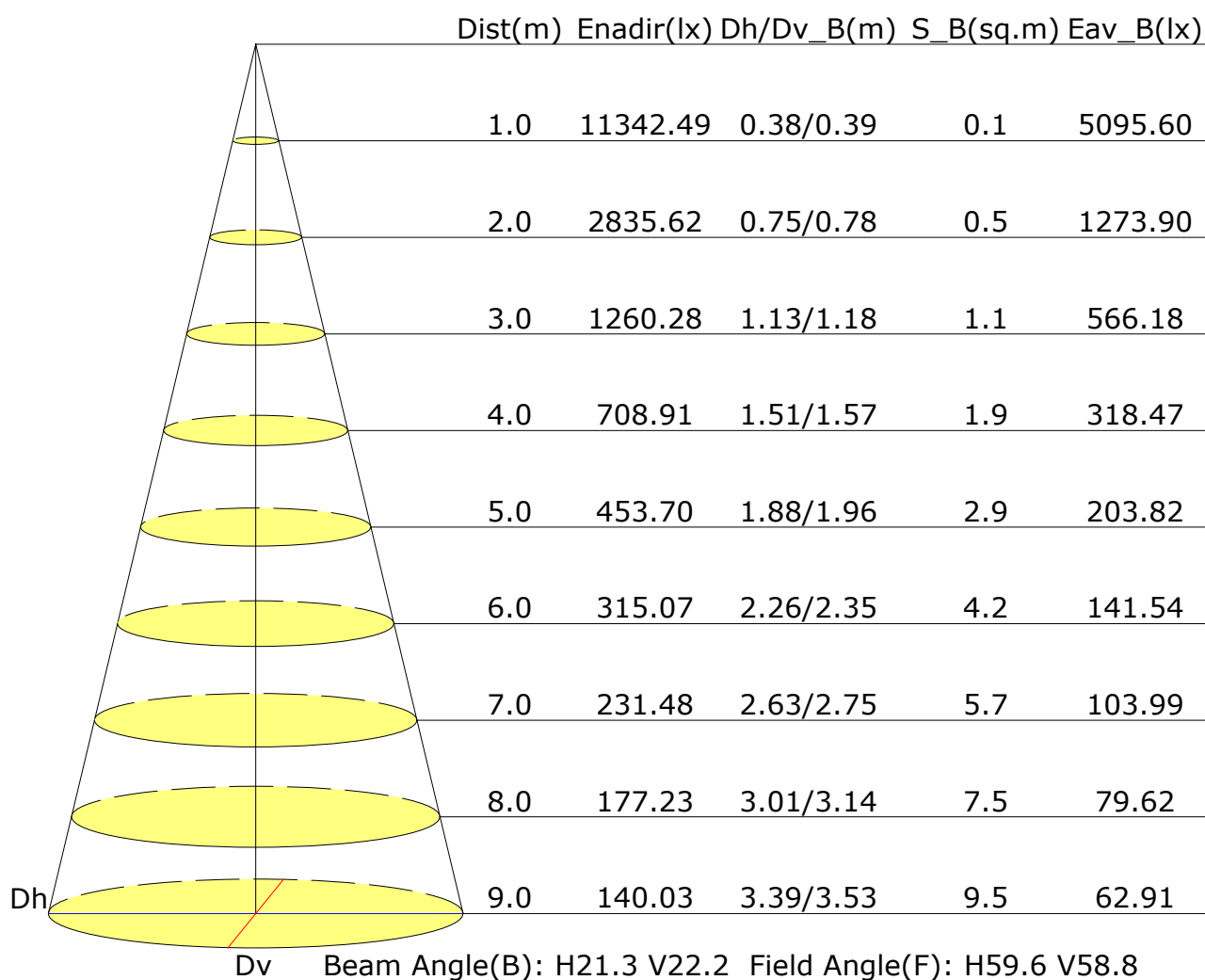
Humidity:

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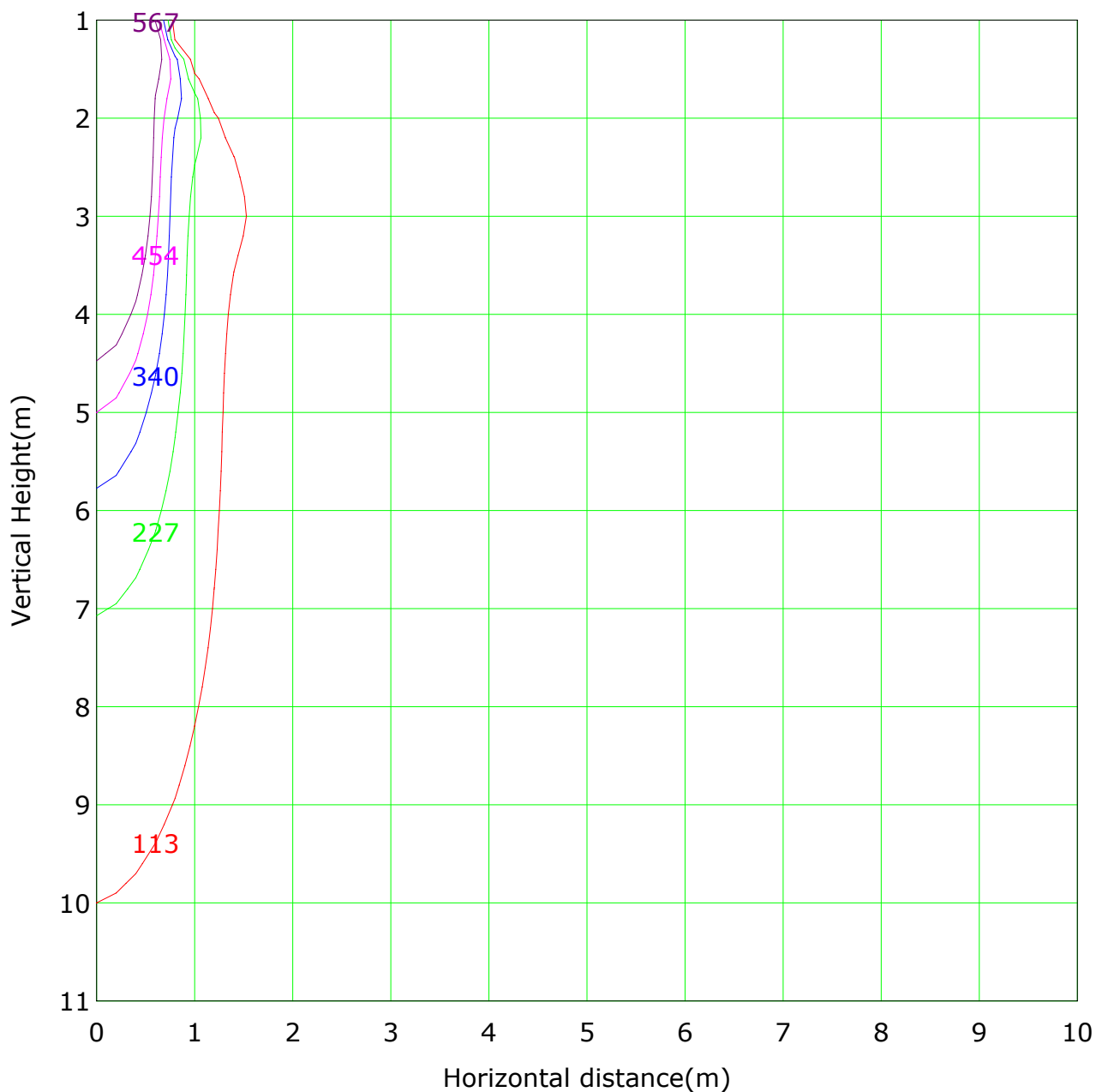
Illuminance at a Distance



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

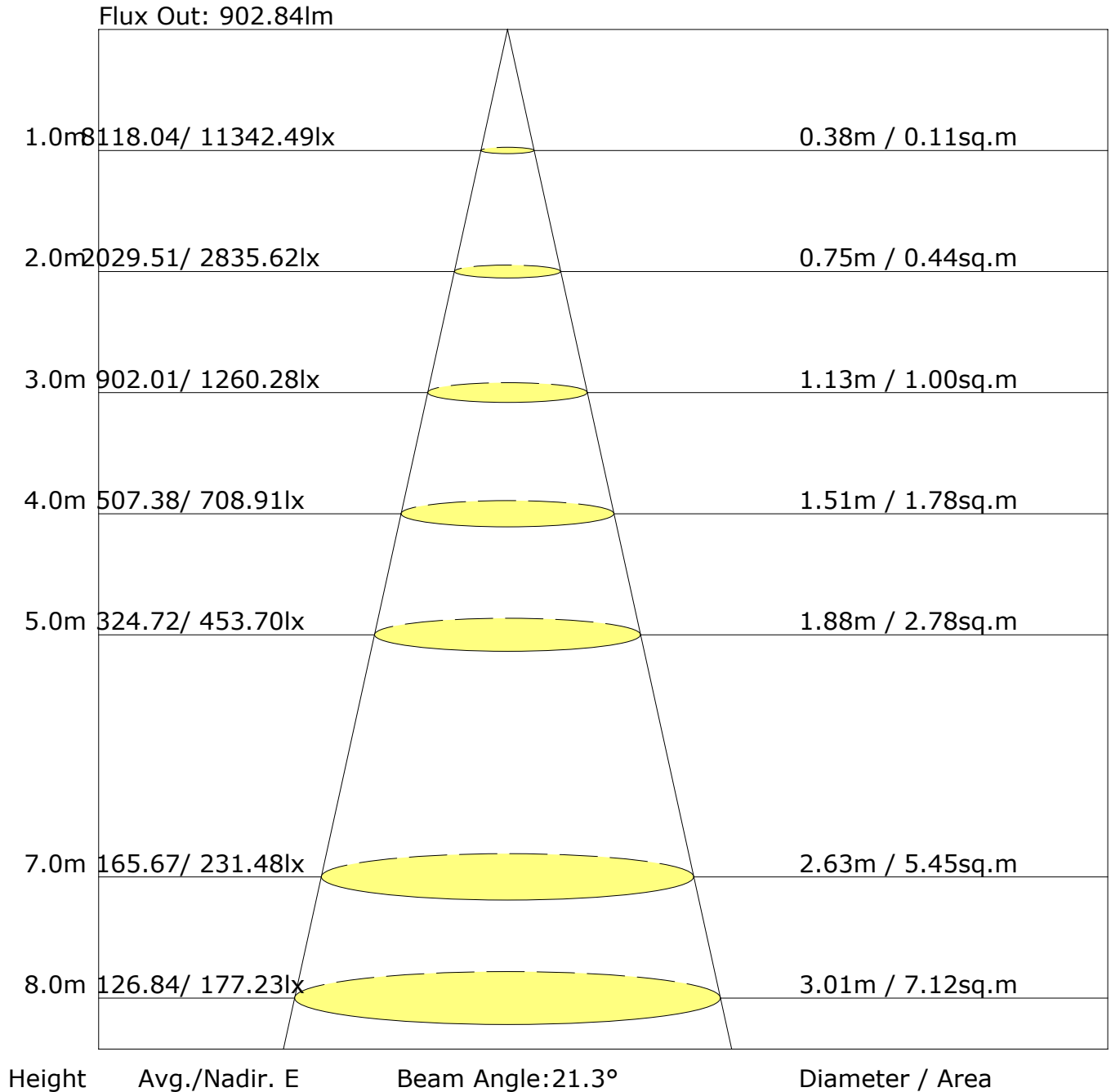


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 11342.5 lx

(1%): 113.4 lx
(3%): 340.3 lx
(5%): 567.1 lx

(2%): 226.8 lx
(4%): 453.7 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	-17.4	-16.5	-17.1	-16.2	-15.9	-7.6	-6.7	-7.2	-6.4	-6.1
3H	-17.6	-16.9	-17.3	-16.5	-16.2	-7.8	-7.0	-7.4	-6.7	-6.3
4H	-17.8	-17.0	-17.3	-16.7	-16.3	-7.9	-7.2	-7.5	-6.9	-6.5
6H	-17.9	-17.2	-17.5	-16.8	-16.4	-8.1	-7.4	-7.6	-7.0	-6.6
8H	-17.9	-17.3	-17.5	-16.9	-16.5	-8.1	-7.5	-7.7	-7.1	-6.7
12H	-18.0	-17.4	-17.6	-17.0	-16.6	-8.2	-7.6	-7.7	-7.2	-6.8
X=4H Y=2H	-17.8	-17.0	-17.3	-16.7	-16.3	-7.9	-7.2	-7.5	-6.9	-6.5
3H	-18.0	-17.4	-17.6	-17.0	-16.6	-8.2	-7.6	-7.7	-7.2	-6.8
4H	-18.1	-17.6	-17.7	-17.2	-16.7	-8.3	-7.8	-7.9	-7.3	-6.9
6H	-18.2	-17.8	-17.8	-17.3	-16.9	-8.4	-8.0	-7.9	-7.5	-7.0
8H	-18.3	-17.9	-17.8	-17.4	-17.0	-8.5	-8.1	-8.0	-7.6	-7.1
12H	-18.4	-18.0	-17.9	-17.5	-17.1	-8.6	-8.2	-8.1	-7.7	-7.2
X=8H Y=4H	-18.3	-17.9	-17.8	-17.4	-17.0	-8.5	-8.1	-8.0	-7.6	-7.1
6H	-18.4	-18.1	-17.9	-17.6	-17.1	-8.6	-8.3	-8.1	-7.8	-7.3
8H	-18.5	-18.2	-18.0	-17.7	-17.2	-8.7	-8.4	-8.2	-7.9	-7.4
12H	-18.6	-18.3	-18.1	-17.8	-17.2	-8.8	-8.5	-8.2	-8.0	-7.4
X=12H Y=4H	-18.4	-18.0	-17.9	-17.5	-17.1	-8.6	-8.2	-8.1	-7.7	-7.2
6H	-18.5	-18.2	-18.0	-17.8	-17.2	-8.7	-8.4	-8.2	-7.9	-7.4
8H	-18.6	-18.3	-18.1	-17.8	-17.2	-8.8	-8.5	-8.2	-8.0	-7.4

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
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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	11326.1	10.8	10.8	0.39	0.39
1.0-2.0	11206.6	32.2	43.0	1.17	1.56
2.0-3.0	10954.7	52.4	95.4	1.90	3.46
3.0-4.0	10589.4	70.9	166.3	2.57	6.03
4.0-5.0	10124.2	87.1	253.4	3.16	9.19
5.0-6.0	9560.7	100.5	353.9	3.64	12.83
6.0-7.0	8914.5	110.7	464.6	4.01	16.84
7.0-8.0	8210.3	117.5	582.1	4.26	21.10
8.0-9.0	7476.5	121.2	703.3	4.39	25.49
9.0-10.0	6732.1	121.8	825.1	4.42	29.91
10.0-11.0	6001.7	119.9	945.0	4.35	34.26
11.0-12.0	5309.4	116.1	1061.1	4.21	38.47
12.0-13.0	4670.6	110.9	1172.0	4.02	42.49
13.0-14.0	4094.8	104.8	1276.8	3.80	46.29
14.0-15.0	3591.3	98.6	1375.4	3.57	49.86
15.0-16.0	3164.3	92.7	1468.1	3.36	53.22
16.0-17.0	2804.7	87.4	1555.5	3.17	56.39
17.0-18.0	2511.1	82.8	1638.3	3.00	59.39
18.0-19.0	2274.1	79.1	1717.4	2.87	62.26
19.0-20.0	2079.1	76.1	1793.5	2.76	65.02
20.0-21.0	1924.1	73.9	1867.4	2.68	67.70
21.0-22.0	1799.8	72.3	1939.8	2.62	70.32
22.0-23.0	1693.7	71.1	2010.8	2.58	72.90
23.0-24.0	1603.9	70.1	2081.0	2.54	75.44
24.0-25.0	1527.3	69.5	2150.4	2.52	77.96
25.0-26.0	1457.4	68.8	2219.2	2.49	80.45
26.0-27.0	1391.9	68.1	2287.3	2.47	82.92
27.0-28.0	1322.8	67.0	2354.3	2.43	85.35
28.0-29.0	1240.9	64.9	2419.3	2.35	87.70
29.0-30.0	1137.4	61.4	2480.7	2.23	89.93
30.0-31.0	1003.1	55.8	2536.5	2.02	91.95
31.0-32.0	832.8	47.7	2584.2	1.73	93.68
32.0-33.0	639.4	37.7	2621.9	1.37	95.05
33.0-34.0	452.6	27.4	2649.3	0.99	96.04
34.0-35.0	300.2	18.6	2667.9	0.68	96.72
35.0-36.0	196.1	12.5	2680.4	0.45	97.17

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	135.8	8.9	2689.3	0.32	97.49
37.0-38.0	106.0	7.1	2696.4	0.26	97.75
38.0-39.0	90.7	6.2	2702.5	0.22	97.97
39.0-40.0	80.7	5.6	2708.2	0.20	98.17
40.0-41.0	73.1	5.2	2713.4	0.19	98.36
41.0-42.0	66.5	4.8	2718.2	0.18	98.54
42.0-43.0	60.8	4.5	2722.7	0.16	98.70
43.0-44.0	55.8	4.2	2726.9	0.15	98.85
44.0-45.0	51.1	3.9	2730.9	0.14	99.00
45.0-46.0	46.8	3.7	2734.5	0.13	99.13
46.0-47.0	42.8	3.4	2737.9	0.12	99.25
47.0-48.0	39.0	3.2	2741.1	0.11	99.37
48.0-49.0	35.2	2.9	2744.0	0.10	99.47
49.0-50.0	31.6	2.6	2746.6	0.10	99.57
50.0-51.0	28.2	2.4	2749.0	0.09	99.65
51.0-52.0	24.7	2.1	2751.1	0.08	99.73
52.0-53.0	21.4	1.9	2753.0	0.07	99.80
53.0-54.0	18.3	1.6	2754.6	0.06	99.86
54.0-55.0	15.0	1.3	2755.9	0.05	99.90
55.0-56.0	11.8	1.1	2757.0	0.04	99.94
56.0-57.0	8.6	0.8	2757.8	0.03	99.97
57.0-58.0	5.1	0.5	2758.2	0.02	99.99
58.0-59.0	2.4	0.2	2758.5	0.01	100.00
59.0-60.0	0.8	0.1	2758.5	0.00	100.00
60.0-61.0	0.0	0.0	2758.5	0.00	100.00
61.0-62.0	0.0	0.0	2758.5	0.00	100.00
62.0-63.0	0.0	0.0	2758.5	0.00	100.00
63.0-64.0	0.0	0.0	2758.5	0.00	100.00
64.0-65.0	0.0	0.0	2758.5	0.00	100.00
65.0-66.0	0.0	0.0	2758.5	0.00	100.00
66.0-67.0	0.0	0.0	2758.5	0.00	100.00
67.0-68.0	0.0	0.0	2758.5	0.00	100.00
68.0-69.0	0.0	0.0	2758.5	0.00	100.00
69.0-70.0	0.0	0.0	2758.5	0.00	100.00
70.0-71.0	0.0	0.0	2758.5	0.00	100.00
71.0-72.0	0.0	0.0	2758.5	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	11342.5	11363.7	11342.5	11363.7	11342.5					
G1.0	11166.2	11494.5	11407.2	11128.5	11166.2					
G2.0	10853.6	11469.9	11363.5	10769.8	10853.6					
G3.0	10405.5	11330.3	11175.7	10269.2	10405.5					
G4.0	9856.9	11082.2	10861.4	9734.0	9856.9					
G5.0	9210.2	10729.5	10421.7	9098.1	9210.2					
G6.0	8498.9	10257.3	9891.5	8378.7	8498.9					
G7.0	7694.8	9685.6	9281.8	7627.3	7694.8					
G8.0	6938.6	9021.7	8542.4	6890.0	6938.6					
G9.0	6138.1	8334.0	7792.6	6154.3	6138.1					
G10.0	5408.9	7561.4	6984.7	5482.4	5408.9					
G11.0	4700.5	6846.1	6213.3	4816.4	4700.5					
G12.0	4113.9	6090.1	5453.8	4241.1	4113.9					
G13.0	3579.4	5385.0	4784.0	3717.1	3579.4					
G14.0	3145.2	4704.5	4169.3	3274.0	3145.2					
G15.0	2788.4	4119.7	3640.1	2889.4	2788.4					
G16.0	2499.2	3608.1	3178.1	2591.3	2499.2					
G17.0	2261.6	3173.3	2797.5	2328.6	2261.6					
G18.0	2088.8	2814.2	2500.4	2124.4	2088.8					
G19.0	1929.9	2518.8	2265.6	1950.9	1929.9					
G20.0	1803.0	2271.6	2074.0	1819.2	1803.0					
G21.0	1703.0	2080.5	1930.1	1711.3	1703.0					
G22.0	1615.7	1929.4	1807.0	1621.1	1615.7					
G23.0	1535.5	1797.5	1696.8	1546.4	1535.5					
G24.0	1471.5	1696.1	1611.1	1476.1	1471.5					
G25.0	1413.6	1604.4	1533.1	1412.8	1413.6					
G26.0	1356.5	1526.2	1470.6	1342.0	1356.5					
G27.0	1299.3	1453.4	1417.8	1269.9	1299.3					
G28.0	1217.2	1381.8	1363.0	1179.7	1217.2					
G29.0	1109.8	1299.0	1305.2	1071.6	1109.8					
G30.0	948.0	1201.2	1228.1	936.3	948.0					
G31.0	742.3	1080.2	1117.4	771.2	742.3					
G32.0	503.2	917.5	954.7	576.0	503.2					
G33.0	311.4	716.1	744.2	391.8	311.4					
G34.0	192.1	512.1	504.7	248.6	192.1					
G35.0	135.1	330.2	316.6	162.0	135.1					
G36.0	108.1	201.4	195.9	119.6	108.1					

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:

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	92.3	135.1	133.9	100.2	92.3					
G38.0	82.6	106.9	108.6	88.3	82.6					
G39.0	76.1	90.7	92.8	79.5	76.1					
G40.0	69.4	81.4	83.8	72.1	69.4					
G41.0	63.5	73.0	75.6	66.1	63.5					
G42.0	57.0	66.1	69.4	60.8	57.0					
G43.0	52.7	60.6	63.7	56.1	52.7					
G44.0	48.9	55.1	58.7	50.6	48.9					
G45.0	43.9	50.3	54.2	47.3	43.9					
G46.0	39.6	46.0	50.3	42.7	39.6					
G47.0	36.3	41.5	46.5	39.1	36.3					
G48.0	32.2	38.4	42.0	35.8	32.2					
G49.0	28.6	34.1	38.7	31.7	28.6					
G50.0	24.8	30.8	35.1	28.6	24.8					
G51.0	21.5	26.7	32.0	25.8	21.5					
G52.0	17.7	23.6	28.2	22.0	17.7					
G53.0	15.5	20.3	24.8	19.3	15.5					
G54.0	12.4	16.9	21.5	15.5	12.4					
G55.0	8.8	13.6	18.4	13.1	8.8					
G56.0	5.3	11.0	15.3	9.3	5.3					
G57.0	2.2	7.6	12.2	6.0	2.2					
G58.0	0.0	4.3	8.8	0.0	0.0					
G59.0	0.0	0.7	5.5	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: