

Tel:
Fax:

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Report No.:

Test Time: 2017-07-29 14:26

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 3000k
Luminous Length (mm): 130
Voltage: 219.7 V
Power: 25.20 W

Luminaire Description: DLC0525-B830 38D
Lamp Description: T1204C430M2
Luminous Width (mm): 130
Current: 0.118 A
Power Factor: 0.968

Photometric Results

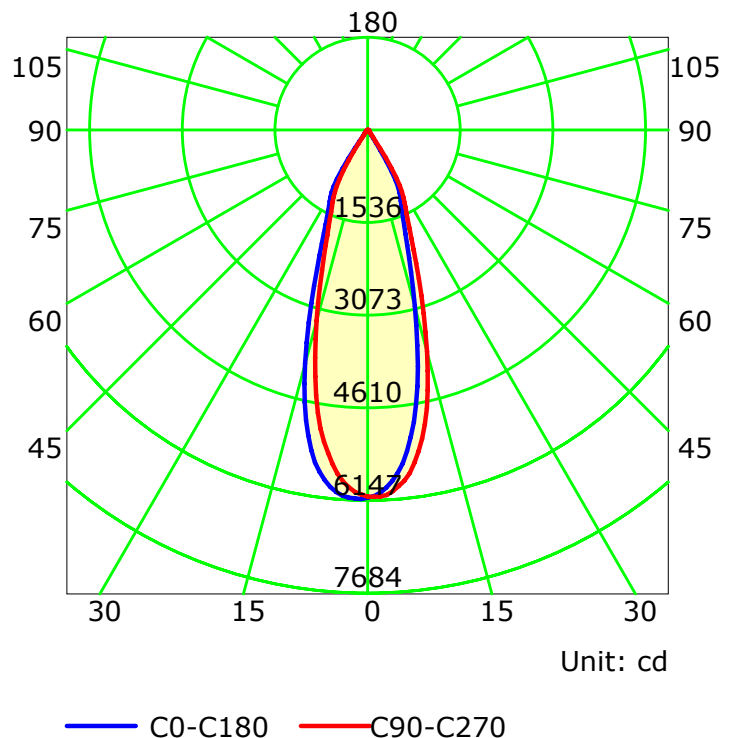
CIE Class: Direct
Measurement Flux: 2434.7 lm
Downward Ratio: 100%
Field Angle: H64.8 V64.7
Luminaire Efficacy Rating (LER): 97
Max. Intensity: 6122.82 cd

Total Rated Lamp Lumens: 2434.7 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H32.8 V33.3
Central Intensity: 6097.77 cd
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



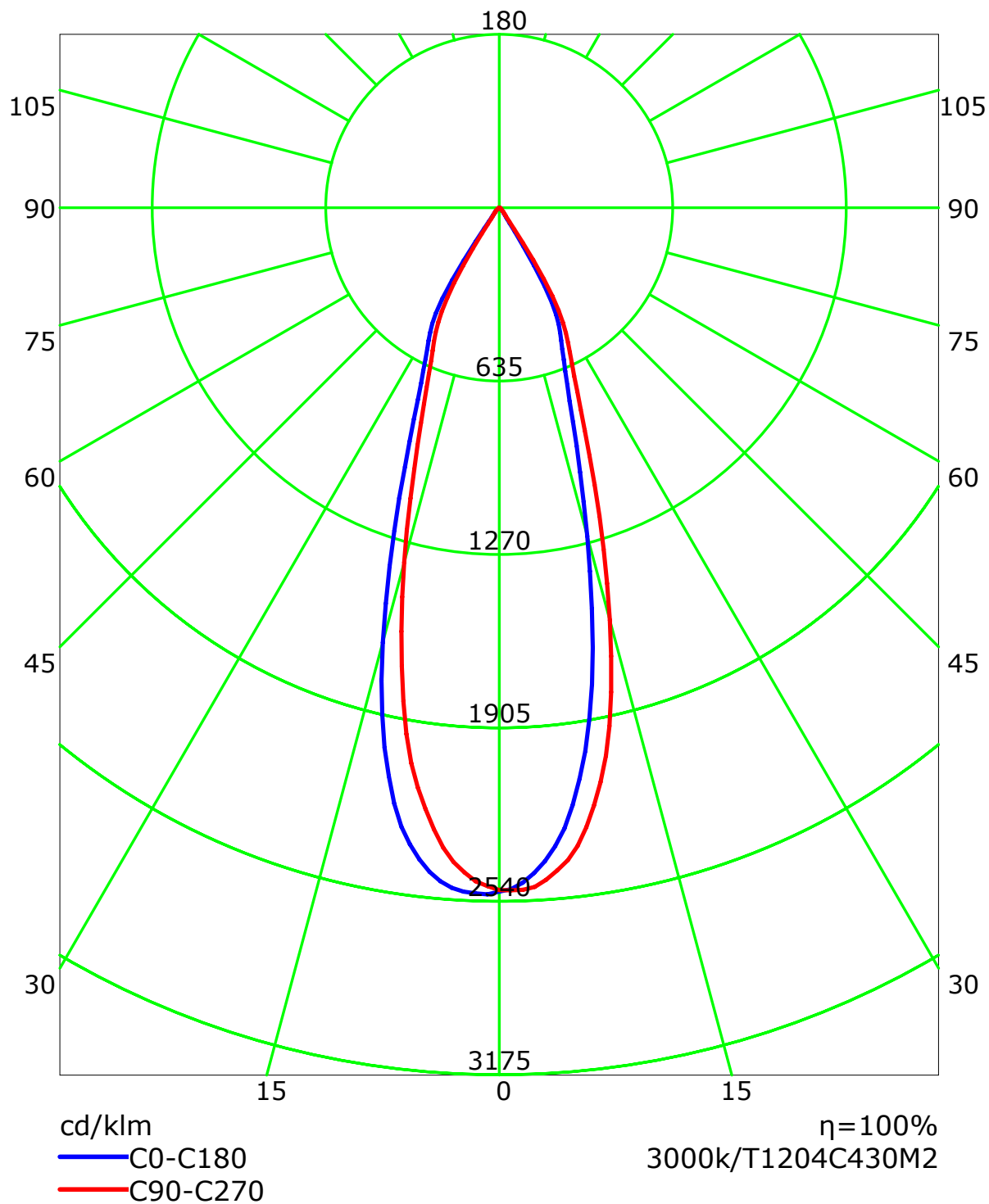
Luminous Intensity Distribution Curve



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:

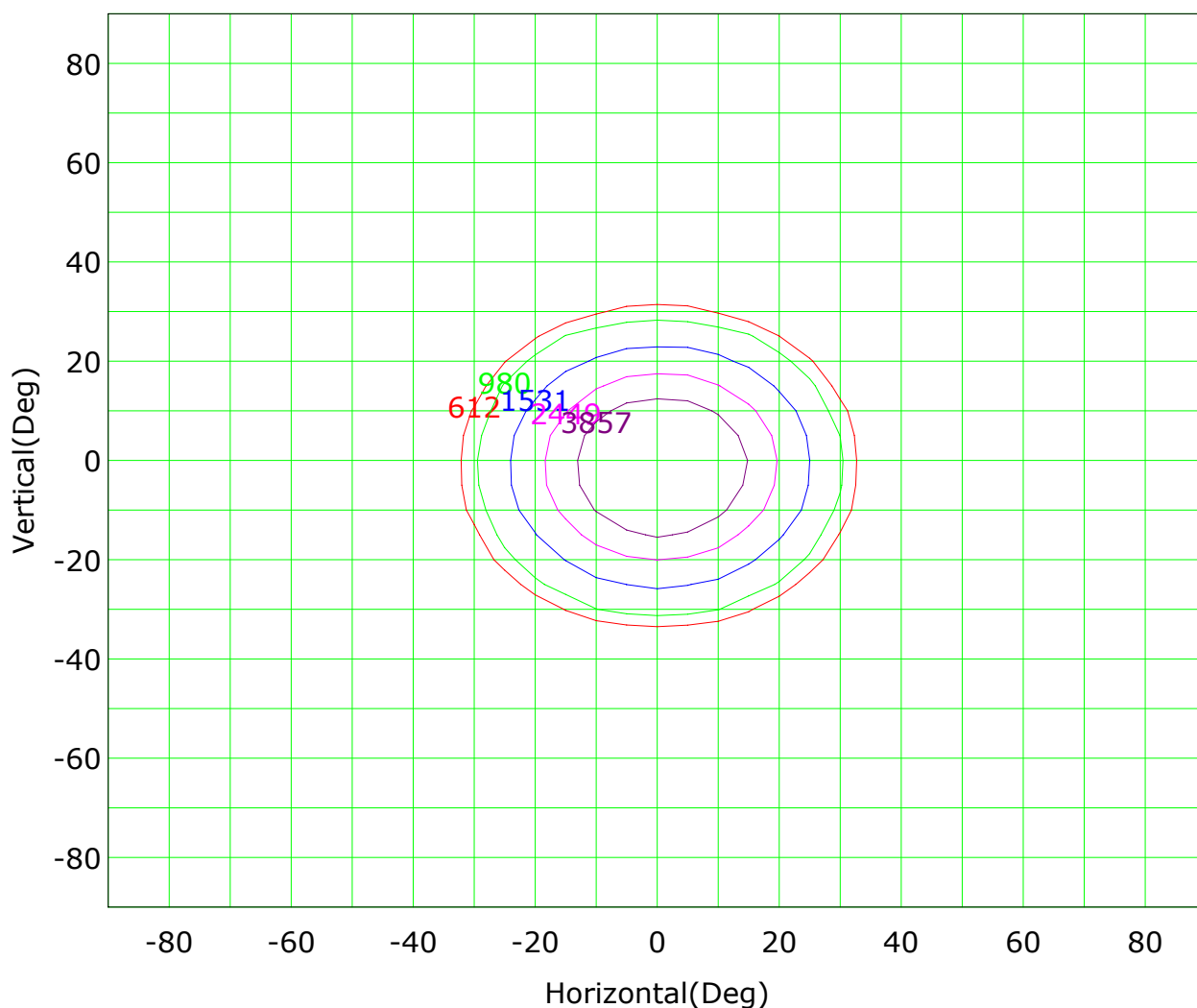
Luminous Intensity Distribution Curve(cd/klm)



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)



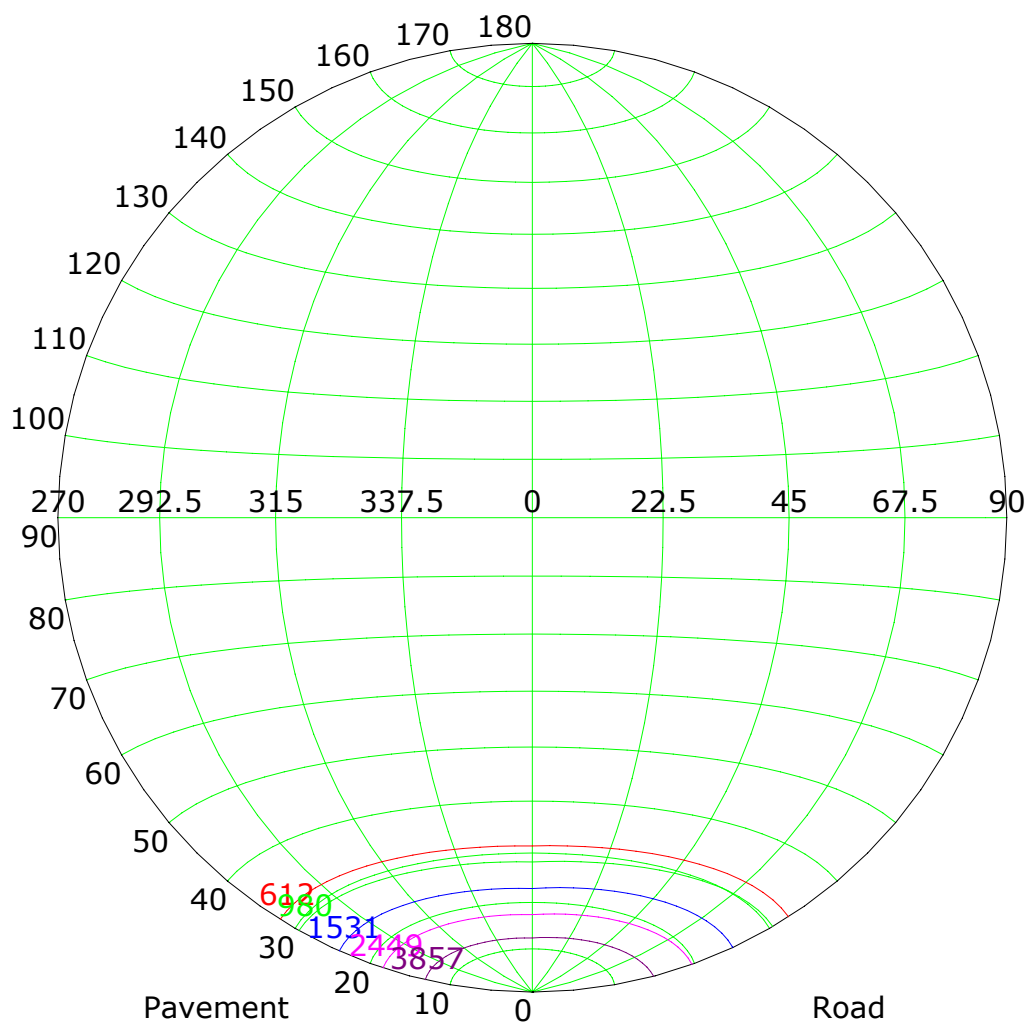
Imax (100%): 6123 cd

(10%): 612 cd	(16%): 980 cd
(25%): 1531 cd	(40%): 2449 cd
(63%): 3857 cd	(100%): 6123 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)

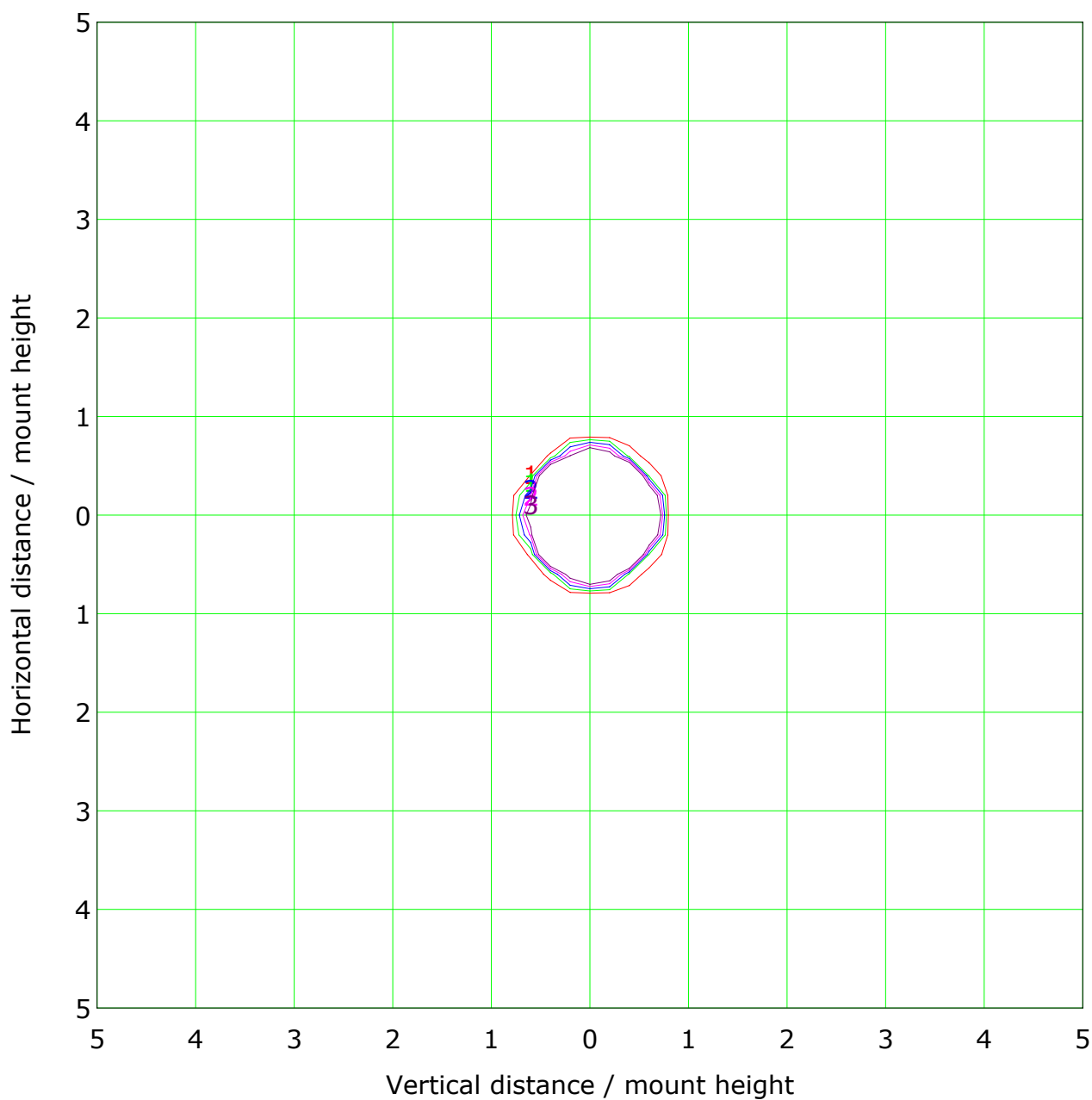


Imax (100%): 6123 cd

(10%): 612 cd
(25%): 1531 cd
(63%): 3857 cd

(16%): 980 cd
(40%): 2449 cd
(100%): 6123 cd

IsoLux Plot



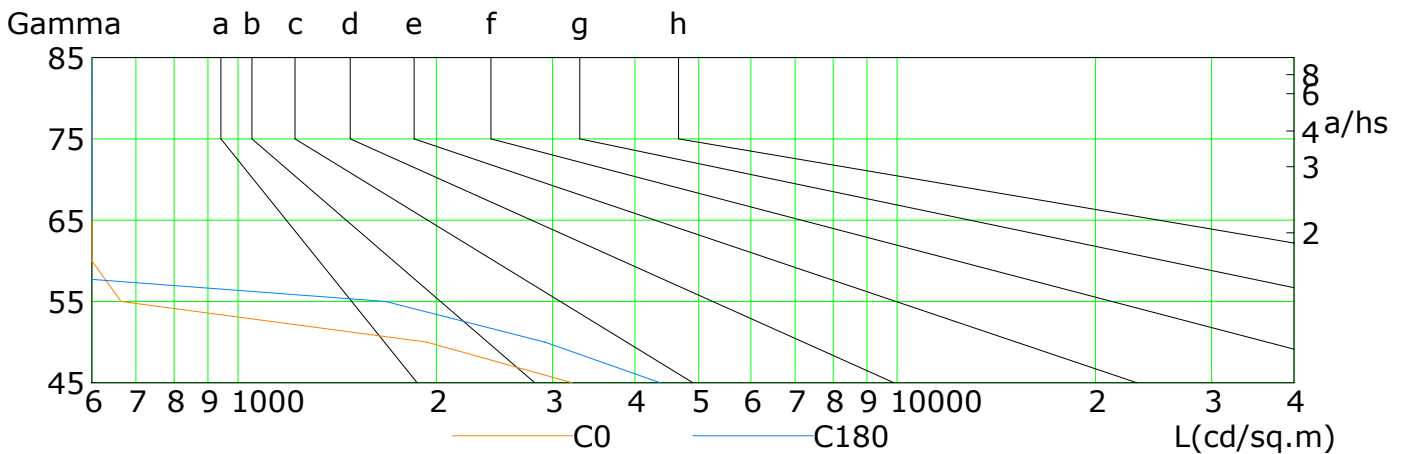
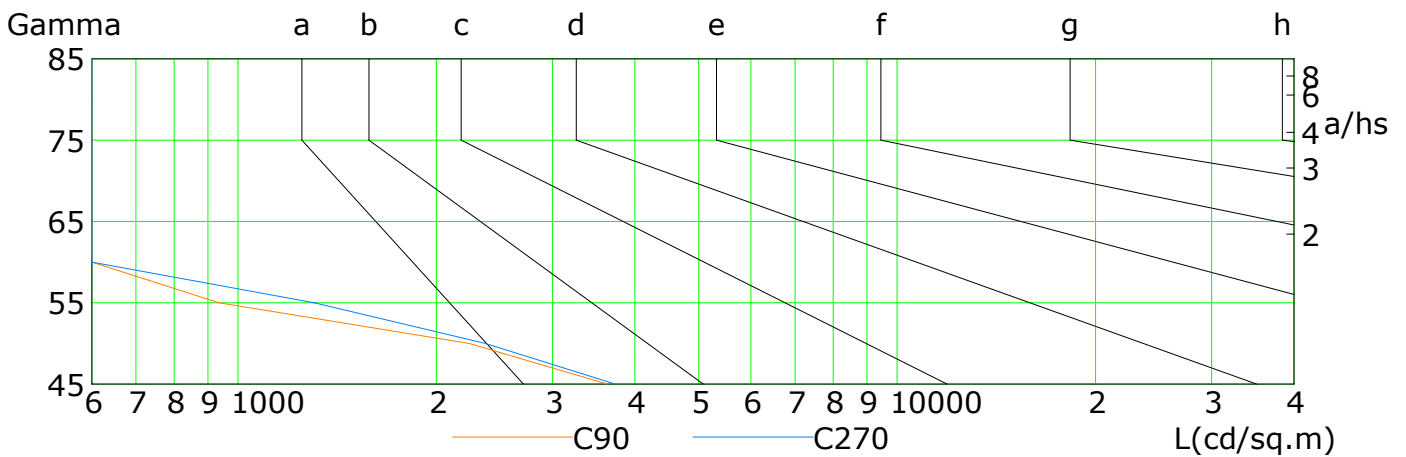
Mounting Height: 10.0m Max Lux(100%): 61.2 lx

(1%): 0.6 lx	(2%): 1.2 lx
(3%): 1.8 lx	(4%): 2.4 lx
(5%): 3.1 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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3215	1933	664	0	0	0	0	0	0
C90	3634	2241	936	0	0	0	0	0	0
C180	4373	2922	1674	254	0	0	0	0	0
C270	3734	2372	1305	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

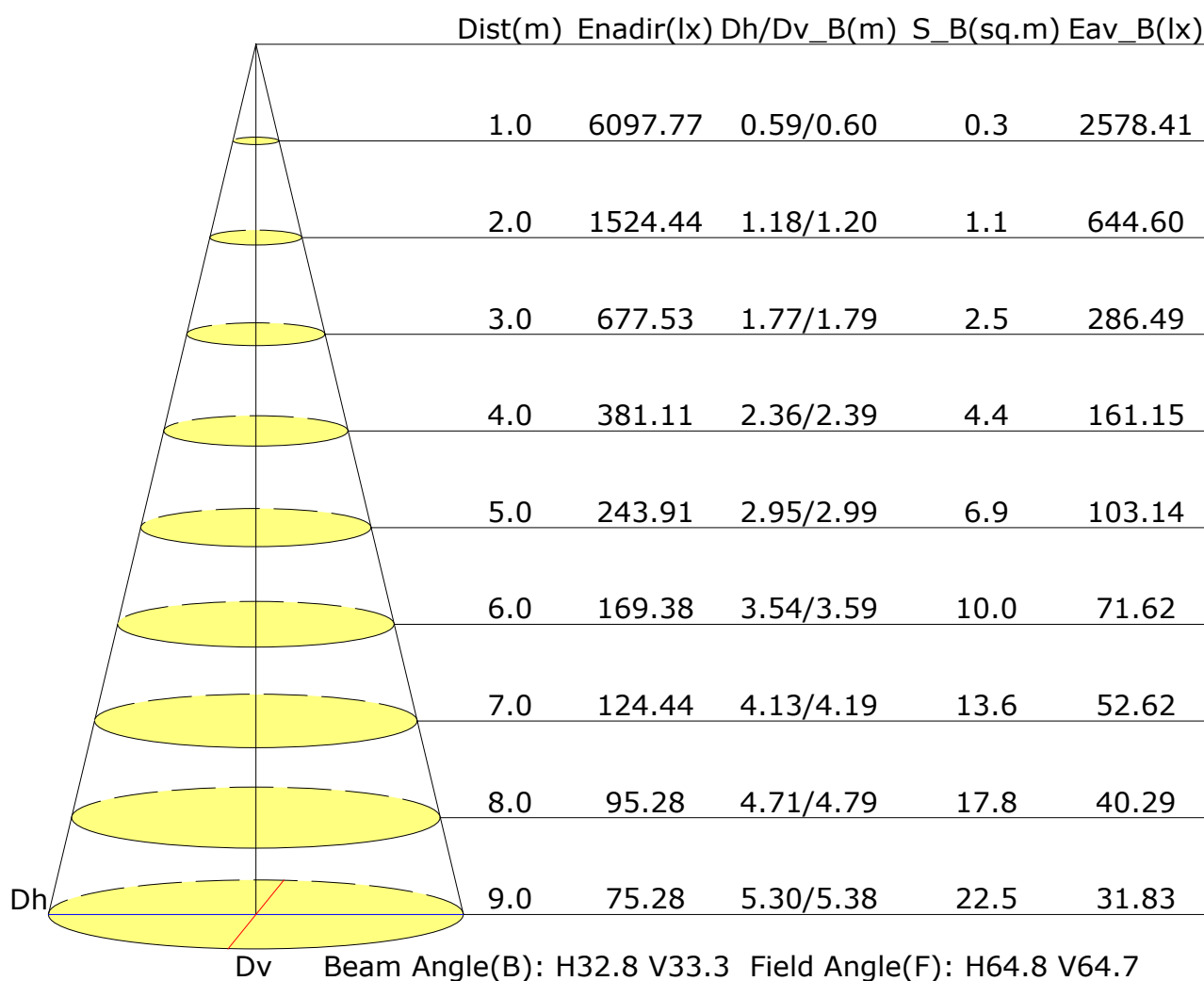
Humidity:

Inspector:

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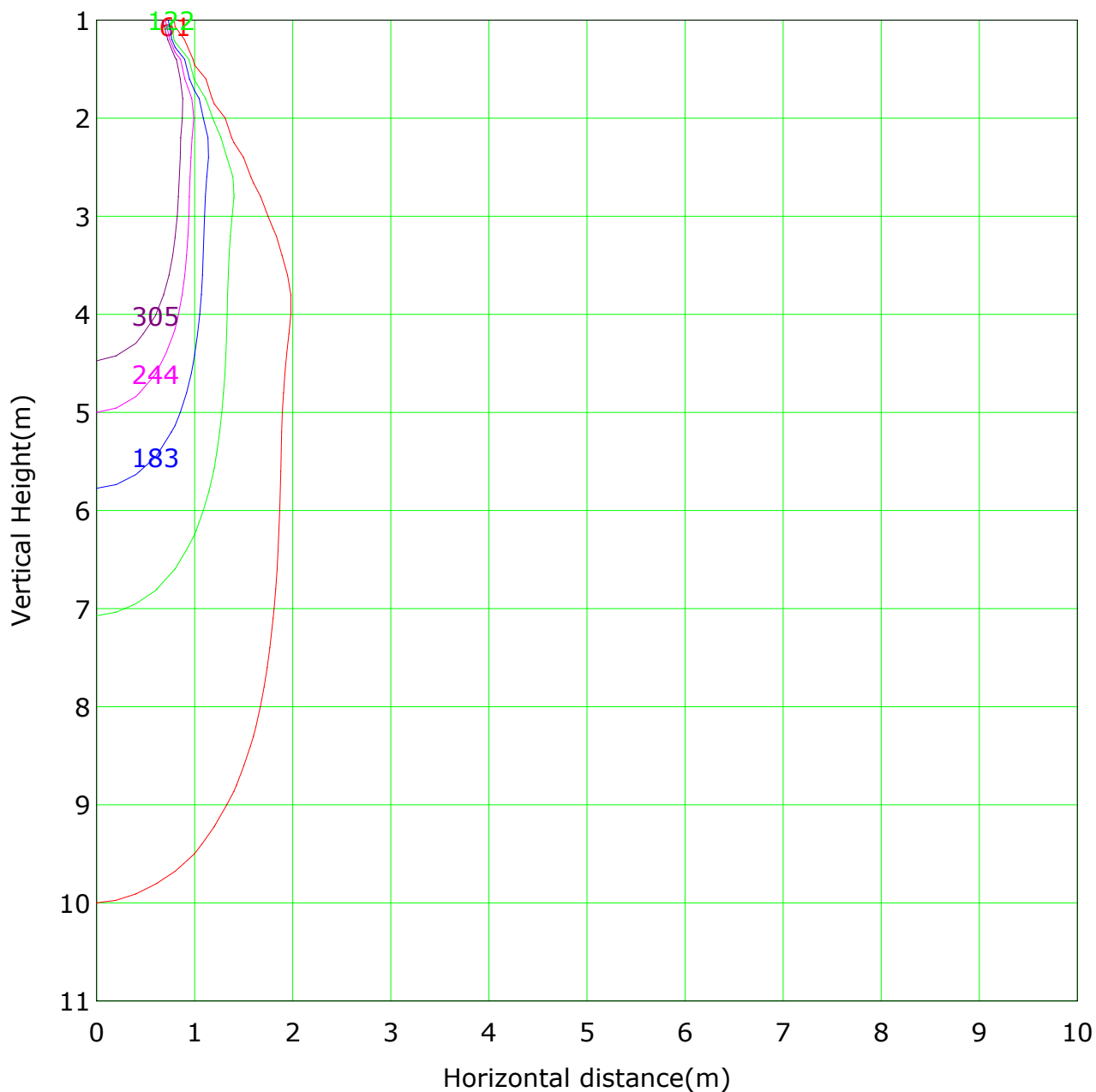
Illuminance at a Distance



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

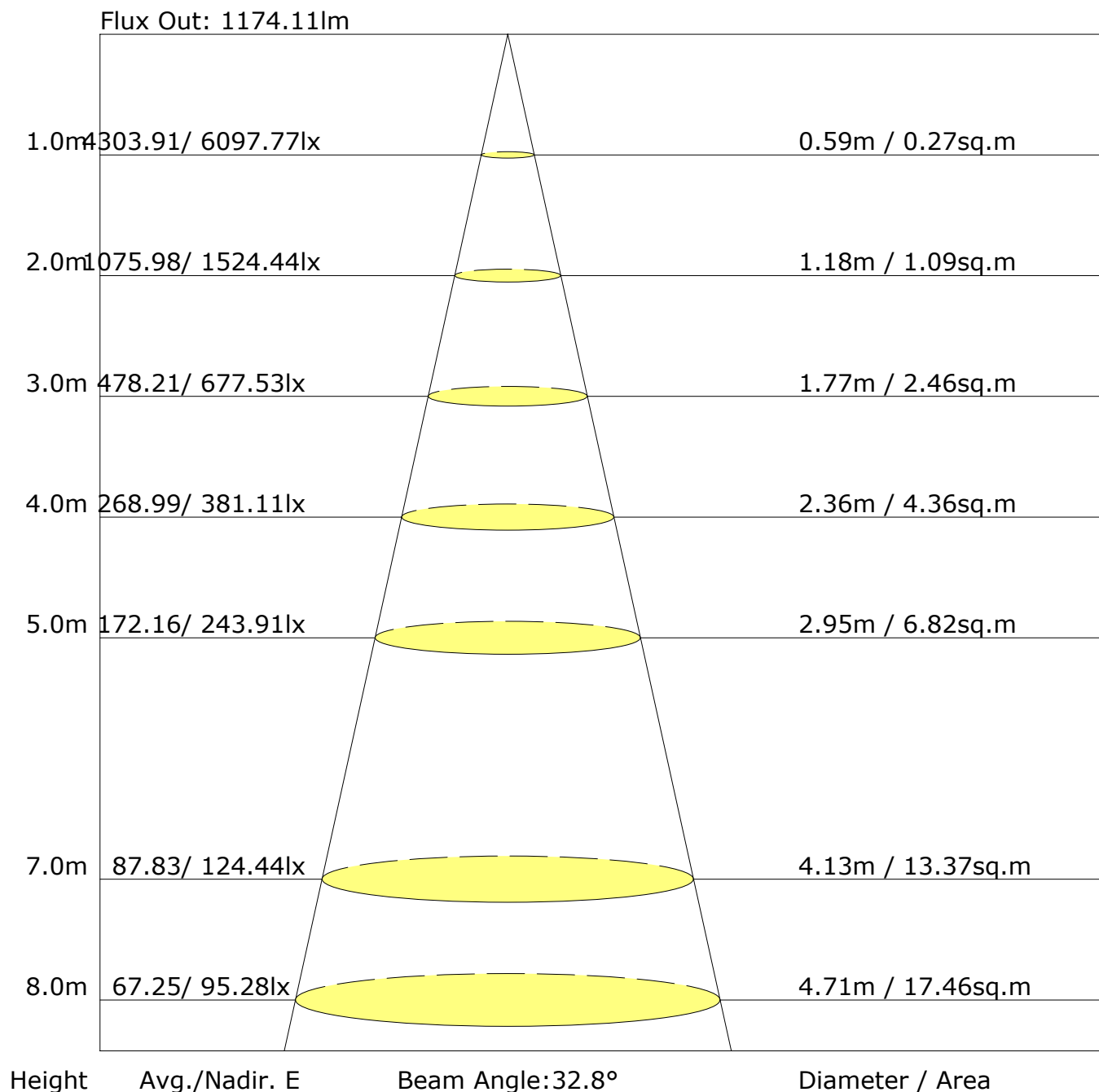
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 6097.8 lx
— (1%): 61.0 lx — (2%): 122.0 lx
— (3%): 182.9 lx — (4%): 243.9 lx
— (5%): 304.9 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	-21.8	-20.9	-21.5	-20.6	-20.3	-10.0	-9.1	-9.7	-8.8	-8.5	
3H	-22.1	-21.3	-21.7	-20.9	-20.6	-10.2	-9.5	-9.9	-9.1	-8.8	
4H	-22.2	-21.4	-21.8	-21.1	-20.7	-10.4	-9.6	-9.9	-9.3	-8.9	
6H	-22.3	-21.6	-21.9	-21.2	-20.9	-10.5	-9.8	-10.1	-9.4	-9.0	
8H	-22.4	-21.7	-21.9	-21.3	-20.9	-10.5	-9.9	-10.1	-9.5	-9.1	
12H	-22.4	-21.8	-22.0	-21.4	-21.0	-10.6	-10.0	-10.2	-9.6	-9.2	
X=4H Y=2H	-22.2	-21.4	-21.8	-21.1	-20.7	-10.4	-9.6	-9.9	-9.3	-8.9	
3H	-22.4	-21.8	-22.0	-21.4	-21.0	-10.6	-10.0	-10.2	-9.6	-9.2	
4H	-22.5	-22.0	-22.1	-21.6	-21.1	-10.7	-10.2	-10.3	-9.8	-9.3	
6H	-22.6	-22.2	-22.2	-21.7	-21.3	-10.8	-10.4	-10.4	-9.9	-9.5	
8H	-22.7	-22.3	-22.2	-21.9	-21.4	-10.9	-10.5	-10.4	-10.0	-9.6	
12H	-22.8	-22.4	-22.3	-21.9	-21.5	-11.0	-10.6	-10.5	-10.1	-9.7	
X=8H Y=4H	-22.7	-22.3	-22.2	-21.9	-21.4	-10.9	-10.5	-10.4	-10.0	-9.6	
6H	-22.9	-22.5	-22.3	-22.0	-21.5	-11.0	-10.7	-10.5	-10.2	-9.7	
8H	-22.9	-22.6	-22.4	-22.1	-21.6	-11.1	-10.8	-10.6	-10.3	-9.8	
12H	-23.0	-22.7	-22.5	-22.2	-21.7	-11.2	-10.9	-10.7	-10.4	-9.8	
X=12H Y=4H	-22.8	-22.4	-22.3	-21.9	-21.5	-11.0	-10.6	-10.5	-10.1	-9.7	
6H	-22.9	-22.6	-22.4	-22.2	-21.6	-11.1	-10.8	-10.6	-10.4	-9.8	
8H	-23.0	-22.7	-22.5	-22.2	-21.7	-11.2	-10.9	-10.7	-10.4	-9.8	

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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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	6087.4	5.8	5.8	0.24	0.24
1.0-2.0	6071.2	17.4	23.3	0.72	0.96
2.0-3.0	6034.9	28.9	52.1	1.19	2.14
3.0-4.0	5977.5	40.0	92.1	1.64	3.78
4.0-5.0	5896.8	50.7	142.9	2.08	5.87
5.0-6.0	5792.7	60.9	203.8	2.50	8.37
6.0-7.0	5661.8	70.3	274.0	2.89	11.26
7.0-8.0	5503.1	78.8	352.8	3.24	14.49
8.0-9.0	5321.6	86.3	439.1	3.54	18.03
9.0-10.0	5111.0	92.5	531.6	3.80	21.83
10.0-11.0	4868.0	97.3	628.9	4.00	25.83
11.0-12.0	4599.3	100.6	729.4	4.13	29.96
12.0-13.0	4306.8	102.2	831.6	4.20	34.16
13.0-14.0	3999.5	102.4	934.0	4.21	38.36
14.0-15.0	3688.4	101.3	1035.3	4.16	42.52
15.0-16.0	3375.6	98.9	1134.2	4.06	46.59
16.0-17.0	3072.6	95.7	1229.9	3.93	50.52
17.0-18.0	2788.4	91.9	1321.9	3.78	54.29
18.0-19.0	2526.6	87.9	1409.8	3.61	57.90
19.0-20.0	2287.6	83.7	1493.5	3.44	61.34
20.0-21.0	2077.3	79.8	1573.3	3.28	64.62
21.0-22.0	1900.2	76.4	1649.7	3.14	67.76
22.0-23.0	1748.6	73.4	1723.0	3.01	70.77
23.0-24.0	1618.2	70.8	1793.8	2.91	73.68
24.0-25.0	1509.5	68.6	1862.4	2.82	76.50
25.0-26.0	1418.3	67.0	1929.4	2.75	79.25
26.0-27.0	1335.1	65.3	1994.7	2.68	81.93
27.0-28.0	1253.6	63.5	2058.2	2.61	84.54
28.0-29.0	1164.3	60.9	2119.1	2.50	87.04
29.0-30.0	1056.4	57.0	2176.2	2.34	89.38
30.0-31.0	924.1	51.4	2227.6	2.11	91.50
31.0-32.0	766.7	43.9	2271.5	1.80	93.30
32.0-33.0	592.0	34.9	2306.4	1.43	94.73
33.0-34.0	424.3	25.7	2332.1	1.05	95.79
34.0-35.0	286.2	17.8	2349.9	0.73	96.52
35.0-36.0	189.5	12.1	2361.9	0.50	97.01

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	133.8	8.7	2370.7	0.36	97.37
37.0-38.0	104.8	7.0	2377.7	0.29	97.66
38.0-39.0	88.6	6.1	2383.7	0.25	97.91
39.0-40.0	78.0	5.4	2389.2	0.22	98.13
40.0-41.0	70.3	5.0	2394.2	0.21	98.34
41.0-42.0	63.7	4.6	2398.8	0.19	98.53
42.0-43.0	57.7	4.3	2403.1	0.18	98.70
43.0-44.0	52.3	4.0	2407.0	0.16	98.86
44.0-45.0	47.2	3.6	2410.6	0.15	99.01
45.0-46.0	42.7	3.3	2414.0	0.14	99.15
46.0-47.0	38.6	3.1	2417.1	0.13	99.28
47.0-48.0	34.5	2.8	2419.8	0.11	99.39
48.0-49.0	31.1	2.6	2422.4	0.10	99.50
49.0-50.0	27.6	2.3	2424.7	0.09	99.59
50.0-51.0	24.2	2.0	2426.7	0.08	99.67
51.0-52.0	20.9	1.8	2428.5	0.07	99.75
52.0-53.0	18.0	1.6	2430.1	0.06	99.81
53.0-54.0	15.2	1.3	2431.5	0.06	99.87
54.0-55.0	12.3	1.1	2432.6	0.05	99.91
55.0-56.0	9.4	0.8	2433.4	0.03	99.95
56.0-57.0	6.4	0.6	2434.0	0.02	99.97
57.0-58.0	4.1	0.4	2434.4	0.02	99.99
58.0-59.0	2.1	0.2	2434.6	0.01	100.00
59.0-60.0	0.9	0.1	2434.7	0.00	100.00
60.0-61.0	0.3	0.0	2434.7	0.00	100.00
61.0-62.0	0.0	0.0	2434.7	0.00	100.00
62.0-63.0	0.0	0.0	2434.7	0.00	100.00
63.0-64.0	0.0	0.0	2434.7	0.00	100.00
64.0-65.0	0.0	0.0	2434.7	0.00	100.00
65.0-66.0	0.0	0.0	2434.7	0.00	100.00
66.0-67.0	0.0	0.0	2434.7	0.00	100.00
67.0-68.0	0.0	0.0	2434.7	0.00	100.00
68.0-69.0	0.0	0.0	2434.7	0.00	100.00
69.0-70.0	0.0	0.0	2434.7	0.00	100.00
70.0-71.0	0.0	0.0	2434.7	0.00	100.00
71.0-72.0	0.0	0.0	2434.7	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	6097.8	6083.7	6097.8	6083.7	6097.8					
G1.0	6076.5	6087.0	6122.8	6050.0	6076.5					
G2.0	6021.6	6084.9	6116.6	6010.2	6021.6					
G3.0	5940.3	6064.4	6105.6	5935.8	5940.3					
G4.0	5840.5	6006.4	6078.9	5847.9	5840.5					
G5.0	5714.8	5930.5	6028.1	5727.4	5714.8					
G6.0	5564.7	5849.1	5953.9	5573.0	5564.7					
G7.0	5367.1	5733.9	5853.2	5399.1	5367.1					
G8.0	5142.8	5577.4	5730.1	5221.1	5142.8					
G9.0	4904.7	5396.0	5585.9	5014.5	4904.7					
G10.0	4627.0	5201.1	5393.9	4765.1	4627.0					
G11.0	4331.1	4979.9	5162.9	4482.8	4331.1					
G12.0	4012.8	4724.3	4920.7	4180.3	4012.8					
G13.0	3668.2	4432.7	4638.9	3876.8	3668.2					
G14.0	3341.1	4120.9	4341.1	3576.1	3341.1					
G15.0	3032.3	3807.1	4013.7	3275.2	3032.3					
G16.0	2727.6	3485.7	3671.5	2991.5	2727.6					
G17.0	2465.8	3185.3	3343.0	2710.2	2465.8					
G18.0	2232.2	2890.8	3027.3	2452.7	2232.2					
G19.0	2020.3	2612.3	2739.0	2238.0	2020.3					
G20.0	1834.9	2353.4	2459.9	2043.3	1834.9					
G21.0	1693.4	2128.4	2232.2	1873.1	1693.4					
G22.0	1572.2	1939.9	2032.3	1729.7	1572.2					
G23.0	1472.0	1781.3	1856.4	1605.2	1472.0					
G24.0	1380.4	1643.1	1714.0	1493.2	1380.4					
G25.0	1305.4	1532.1	1601.3	1406.6	1305.4					
G26.0	1238.2	1435.3	1498.5	1328.6	1238.2					
G27.0	1167.3	1350.3	1413.6	1249.4	1167.3					
G28.0	1082.6	1265.6	1342.0	1157.8	1082.6					
G29.0	964.5	1173.5	1272.8	1056.1	964.5					
G30.0	804.1	1056.8	1194.5	928.9	804.1					
G31.0	605.1	920.1	1099.1	783.8	605.1					
G32.0	405.6	749.0	961.8	609.2	405.6					
G33.0	253.6	556.7	770.5	429.3	253.6					
G34.0	166.8	373.7	566.2	278.0	166.8					
G35.0	123.1	234.1	366.3	181.1	123.1					
G36.0	100.9	154.1	228.1	128.1	100.9					

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	88.5	115.3	149.9	105.5	88.5					
G38.0	78.3	95.7	113.6	91.6	78.3					
G39.0	71.1	82.6	95.7	80.7	71.1					
G40.0	63.5	73.7	84.7	72.3	63.5					
G41.0	58.5	67.3	76.4	66.1	58.5					
G42.0	52.0	60.6	69.4	59.4	52.0					
G43.0	47.3	54.9	63.2	54.9	47.3					
G44.0	43.0	49.2	57.7	48.7	43.0					
G45.0	38.4	43.4	52.3	44.6	38.4					
G46.0	34.8	40.1	46.5	41.3	34.8					
G47.0	30.8	36.0	42.2	36.8	30.8					
G48.0	27.7	31.3	38.7	32.7	27.7					
G49.0	24.1	28.6	35.3	30.1	24.1					
G50.0	21.0	24.3	31.7	25.8	21.0					
G51.0	17.4	21.7	27.4	23.9	17.4					
G52.0	14.8	17.7	23.9	20.8	14.8					
G53.0	11.9	15.5	22.0	17.9	11.9					
G54.0	9.3	11.4	18.1	15.5	9.3					
G55.0	6.4	9.1	16.2	12.6	6.4					
G56.0	2.6	6.9	12.6	8.4	2.6					
G57.0	0.0	4.1	10.0	6.7	0.0					
G58.0	0.0	2.4	8.4	1.4	0.0					
G59.0	0.0	0.0	5.0	0.0	0.0					
G60.0	0.0	0.0	2.2	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: