

Report No.:

Test Time: 2021-05-17 15:22

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED TrackLight
Lamp Catalog: 4000k
Luminous Length (mm): 75 mm
Luminous Height (mm): 0 mm
Current: 0.147 A
Power Factor: 0.946

Luminaire Description: XF-30W
Lumens per Lamp: 2998.4 lm
Luminous Width (mm): 75 mm
Voltage: 219.9 V
Power: 30.60 W

Photometric Results

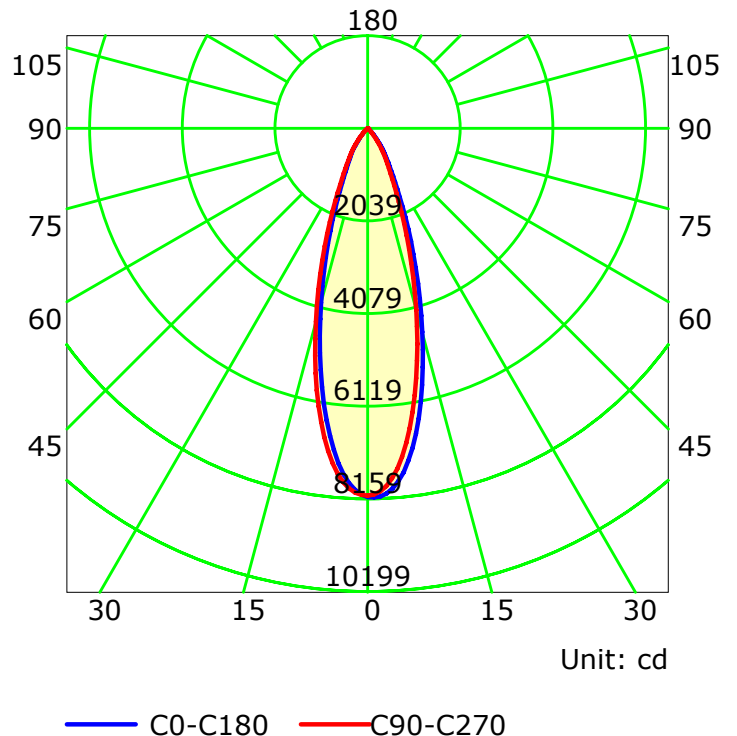
CIE Class: Direct
Measurement Flux: 2998.4 lm
Downward Ratio: 100%
Field Angle: H62.0 V61.6
Luminaire Efficacy Rating (LER): 98
Max. Intensity: 8126.23 cd

Total Rated Lamp Lumens: 2998.4 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H31.4 V31.3
Central Intensity: 8118.11 cd
Pos of Max. Intensity: H0 V1

Picture Of Luminaire



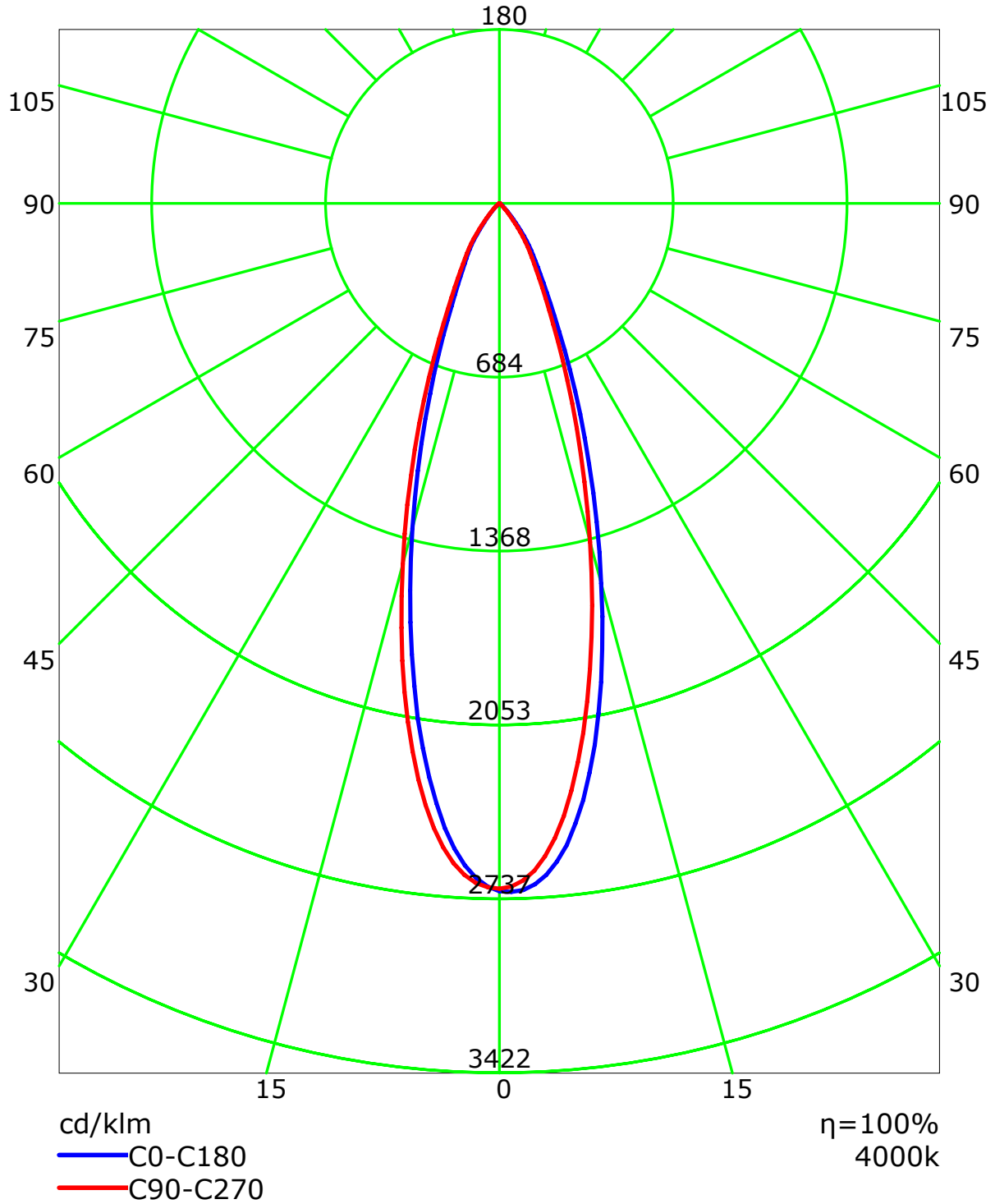
Luminous Intensity Distribution Curve



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:

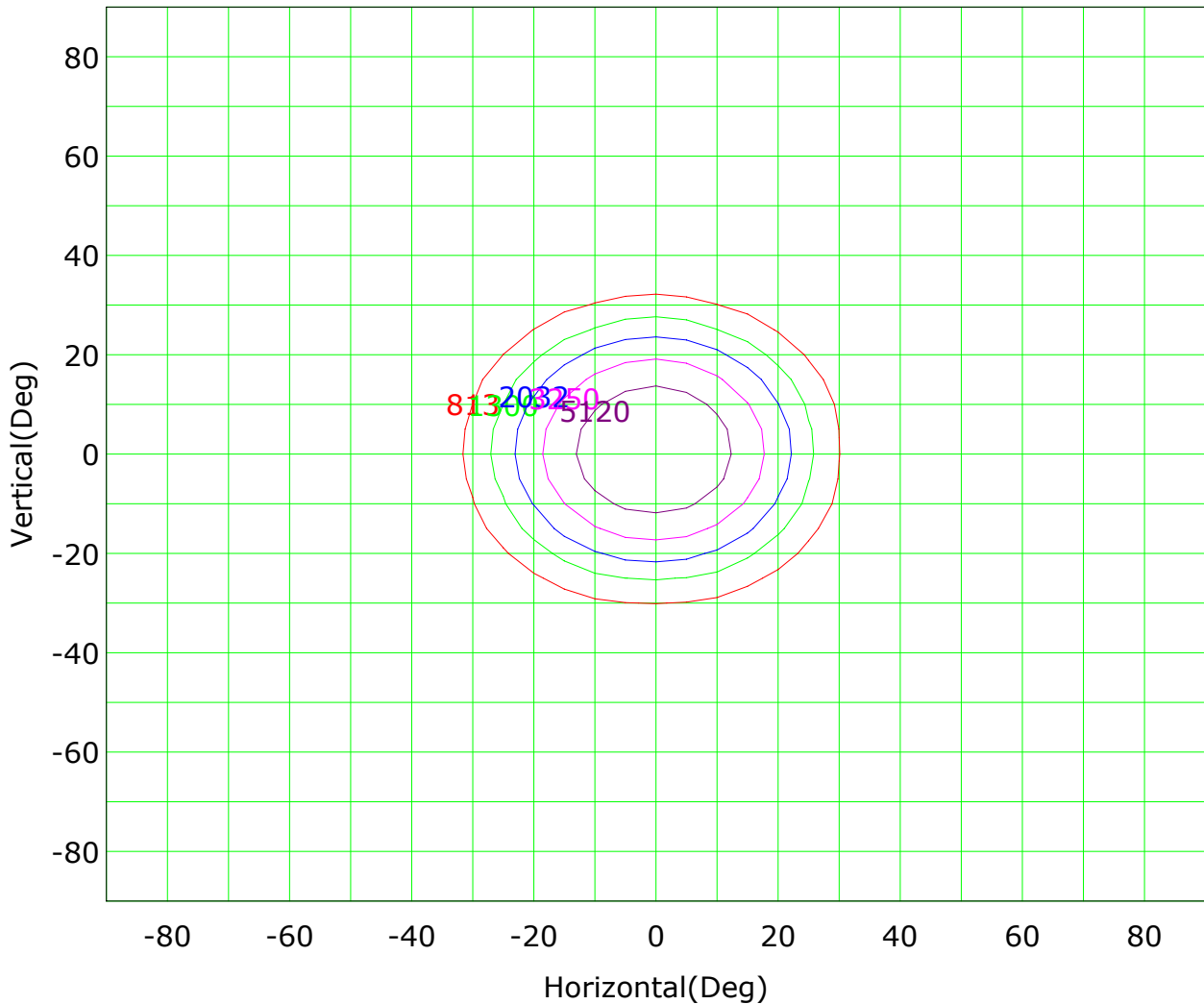
Luminous Intensity Distribution Curve(cd/klm)



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)



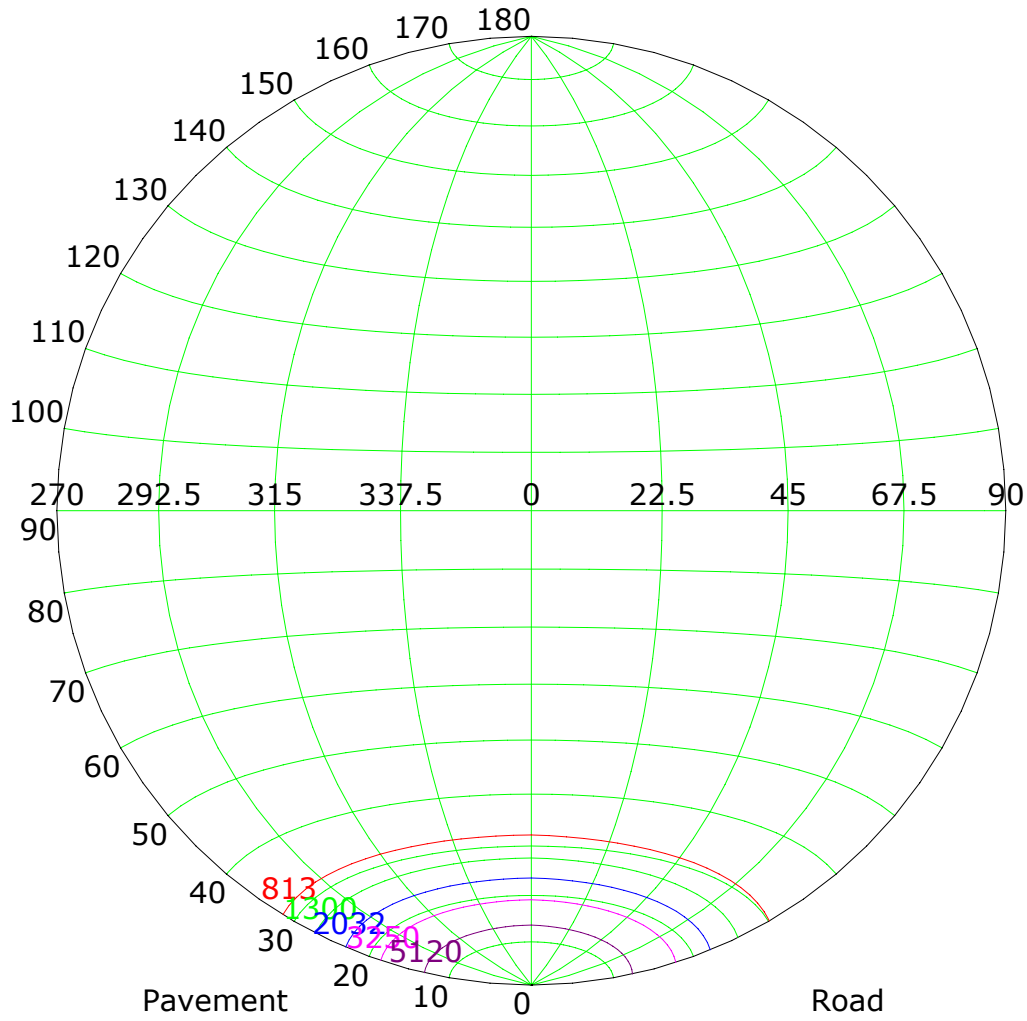
Imax (100%): 8126 cd

— (10%): 813 cd	— (16%): 1300 cd
— (25%): 2032 cd	— (40%): 3250 cd
— (63%): 5120 cd	— (100%): 8126 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:

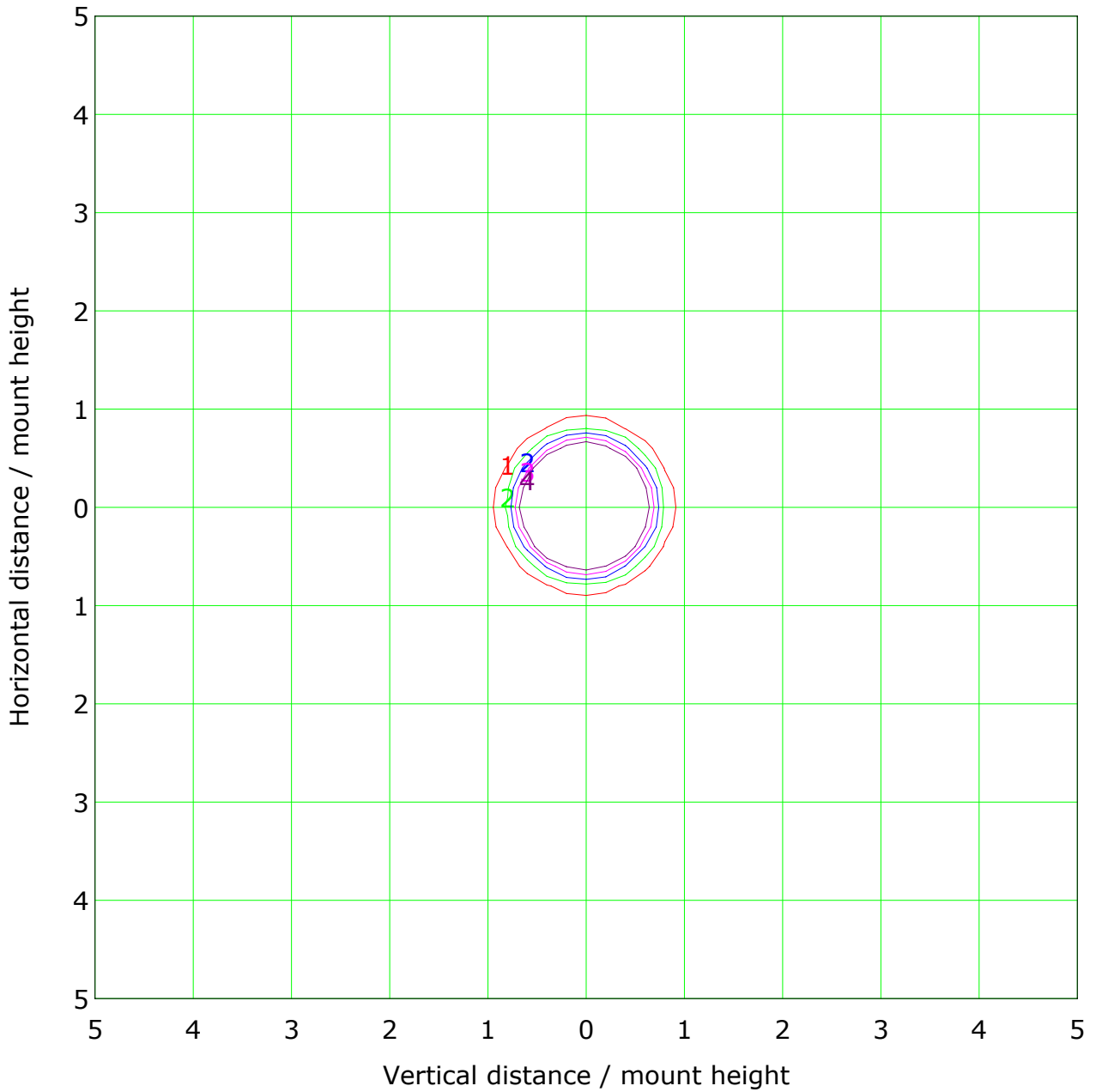
Isocandela (sphere)



Imax (100%): 8126 cd

- | | |
|-------------------|-------------------|
| — (10%): 813 cd | — (16%): 1300 cd |
| — (25%): 2032 cd | — (40%): 3250 cd |
| — (63%): 5120 cd | — (100%): 8126 cd |

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 81.2 lx

— (1%): 0.8 lx	— (2%): 1.6 lx
— (3%): 2.4 lx	— (4%): 3.2 lx
— (5%): 4.1 lx	

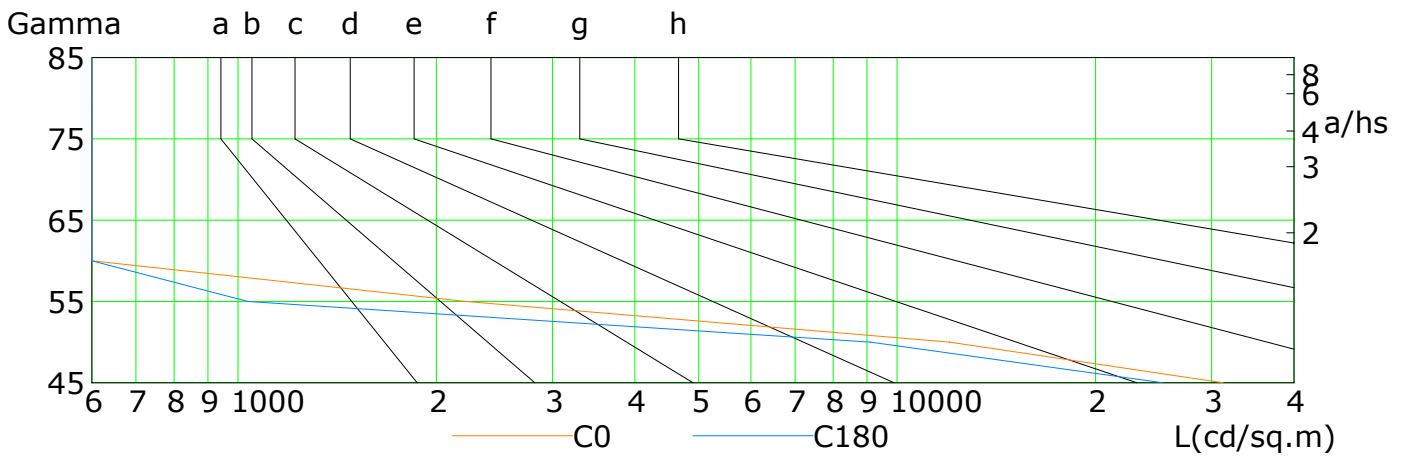
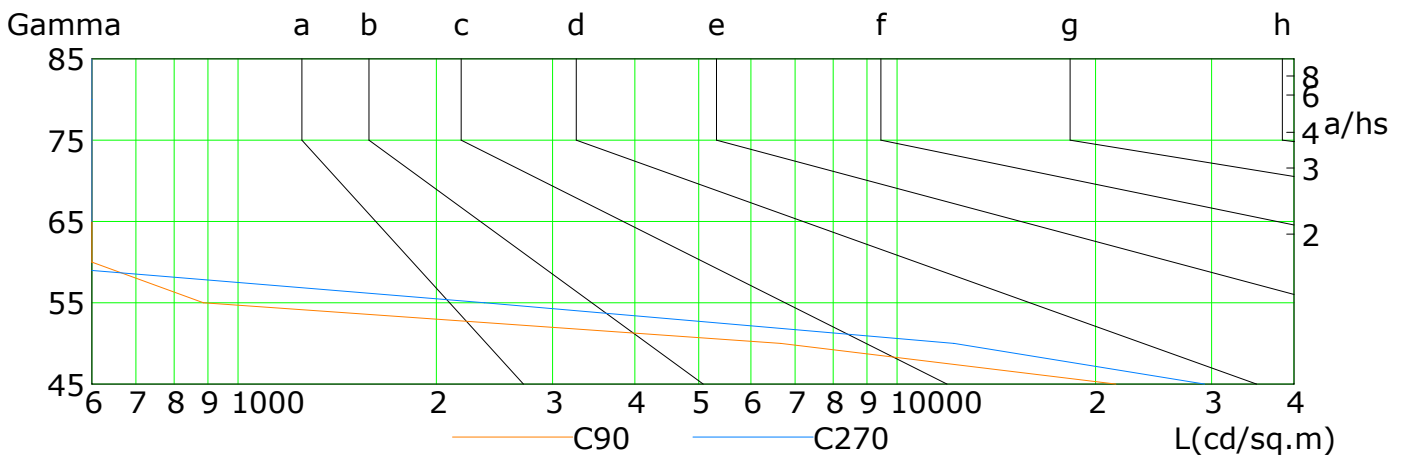
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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)							
		2000	1000	500	<=300				
1.15	A								
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	31256	12012	2219	0	0	0	0	0	0
C90	21476	6665	886	0	0	0	0	0	0
C180	25315	9108	1035	0	0	0	0	0	0
C270	29275	12208	2368	423	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

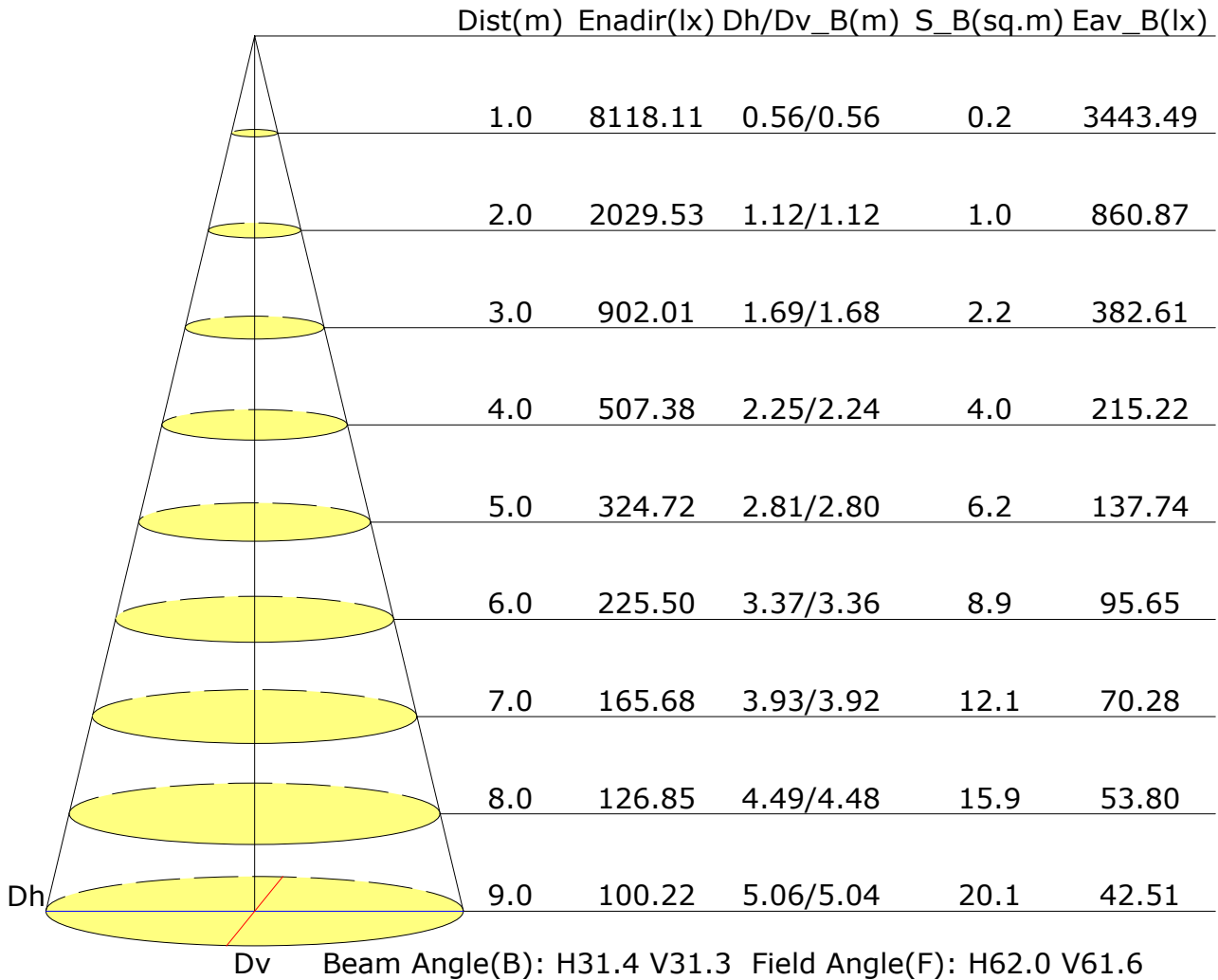
Test Device: GPM-1600L

Distance: 7.990 m

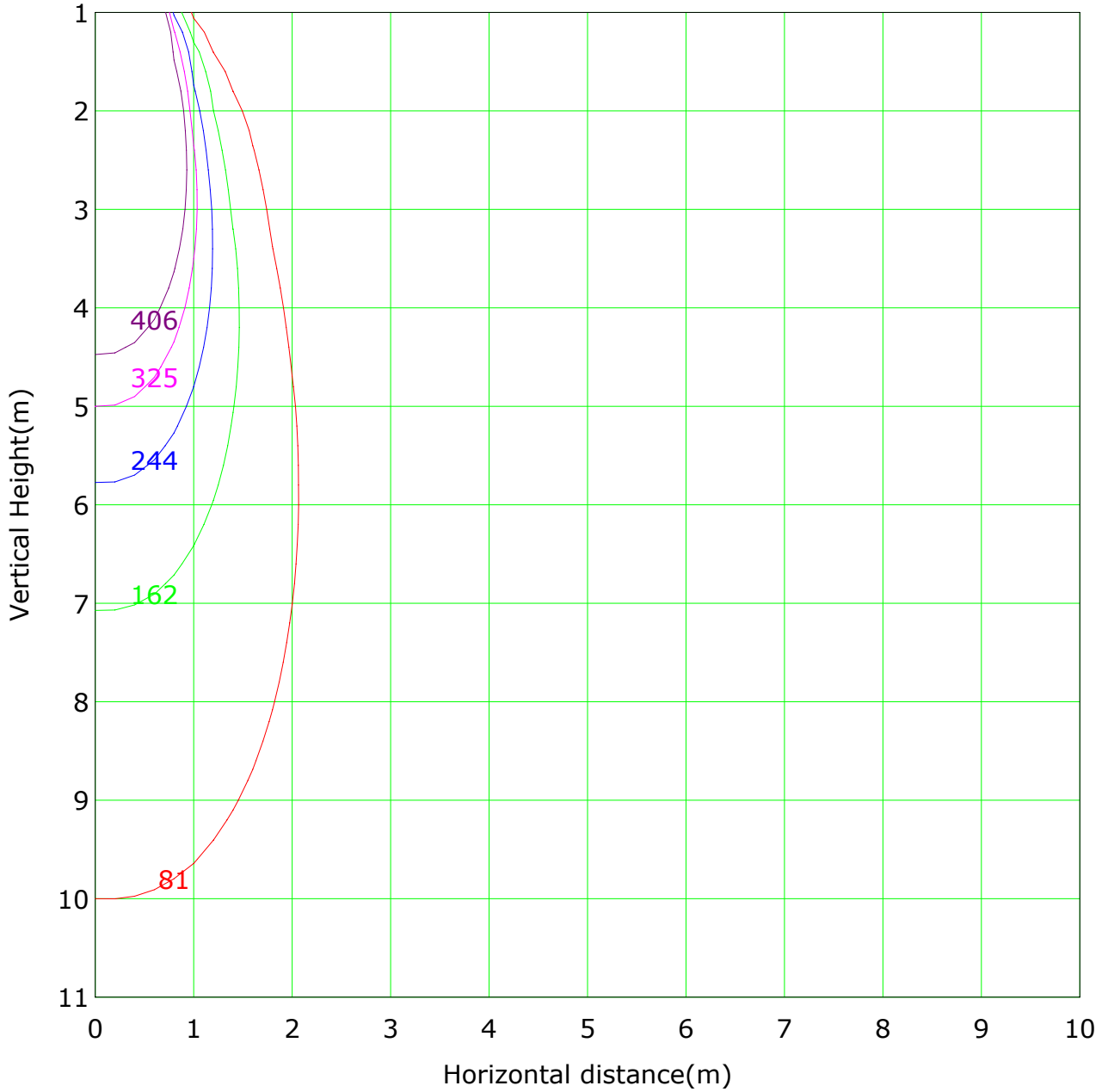
Humidity:

Inspector:

Illuminance at a Distance

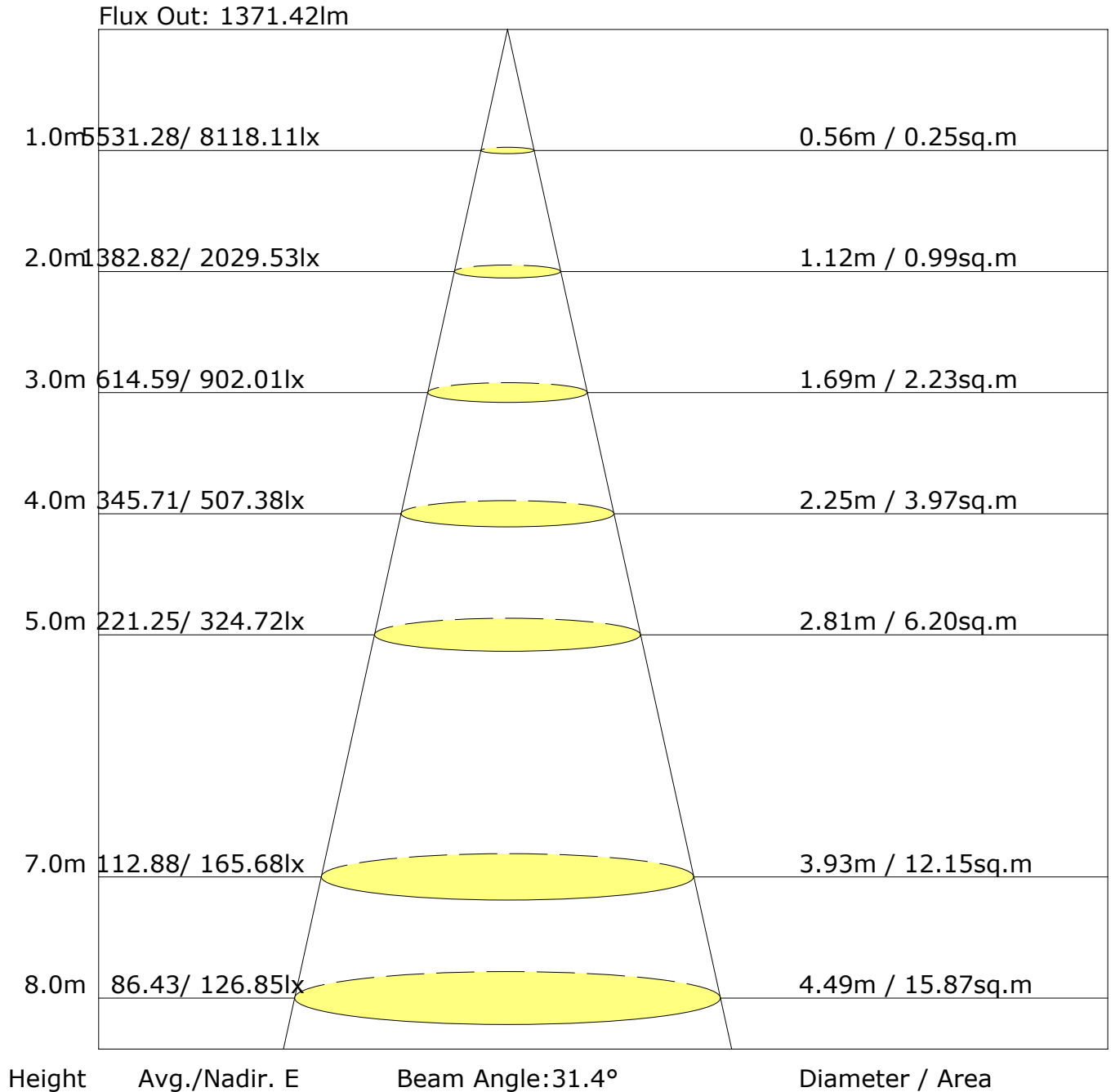


Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8118.1 lx
— (1%): 81.2 lx — (2%): 162.4 lx
— (3%): 243.5 lx — (4%): 324.7 lx
— (5%): 405.9 lx

The Average Illuminance Effective Figure



UGR Table

Room dimensions	Viewed crosswise					Viewed endwise				
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
X=2H Y=2H	-11.7	-10.8	-11.4	-10.5	-10.2	-23.0	-22.1	-22.6	-21.8	-21.4
3H	-11.9	-11.1	-11.6	-10.8	-10.4	-23.2	-22.4	-22.8	-22.1	-21.7
4H	-12.0	-11.3	-11.6	-11.0	-10.6	-23.3	-22.6	-22.9	-22.2	-21.8
6H	-12.2	-11.5	-11.7	-11.1	-10.7	-23.4	-22.7	-23.0	-22.4	-22.0
8H	-12.2	-11.6	-11.8	-11.2	-10.8	-23.5	-22.8	-23.0	-22.4	-22.0
12H	-12.3	-11.7	-11.9	-11.3	-10.9	-23.5	-22.9	-23.1	-22.5	-22.1
X=4H Y=2H	-12.0	-11.3	-11.6	-11.0	-10.6	-23.3	-22.6	-22.9	-22.2	-21.8
3H	-12.3	-11.7	-11.9	-11.3	-10.9	-23.5	-22.9	-23.1	-22.5	-22.1
4H	-12.4	-11.9	-12.0	-11.4	-11.0	-23.7	-23.1	-23.2	-22.7	-22.2
6H	-12.5	-12.1	-12.0	-11.6	-11.1	-23.8	-23.3	-23.3	-22.9	-22.4
8H	-12.6	-12.2	-12.1	-11.7	-11.2	-23.8	-23.4	-23.4	-23.0	-22.5
12H	-12.7	-12.3	-12.2	-11.8	-11.3	-23.9	-23.6	-23.4	-23.1	-22.6
X=8H Y=4H	-12.6	-12.2	-12.1	-11.7	-11.2	-23.8	-23.4	-23.4	-23.0	-22.5
6H	-12.7	-12.4	-12.2	-11.9	-11.4	-24.0	-23.6	-23.5	-23.1	-22.6
8H	-12.8	-12.5	-12.3	-12.0	-11.5	-24.1	-23.8	-23.5	-23.2	-22.7
12H	-12.9	-12.6	-12.3	-12.1	-11.5	-24.1	-23.9	-23.6	-23.4	-22.8
X=12H Y=4H	-12.7	-12.3	-12.2	-11.8	-11.3	-23.9	-23.6	-23.4	-23.1	-22.6
6H	-12.8	-12.5	-12.3	-12.0	-11.5	-24.0	-23.8	-23.5	-23.3	-22.7
8H	-12.9	-12.6	-12.3	-12.1	-11.5	-24.1	-23.9	-23.6	-23.4	-22.8

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:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	8092.0	7.7	7.7	0.26	0.26
1.0-2.0	8052.3	23.1	30.9	0.77	1.03
2.0-3.0	7973.2	38.1	69.0	1.27	2.30
3.0-4.0	7849.7	52.6	121.5	1.75	4.05
4.0-5.0	7681.7	66.1	187.6	2.20	6.26
5.0-6.0	7470.4	78.5	266.2	2.62	8.88
6.0-7.0	7217.5	89.6	355.8	2.99	11.86
7.0-8.0	6932.6	99.2	455.0	3.31	15.17
8.0-9.0	6622.4	107.3	562.3	3.58	18.75
9.0-10.0	6287.8	113.8	676.1	3.80	22.55
10.0-11.0	5936.3	118.6	794.8	3.96	26.51
11.0-12.0	5576.2	121.9	916.7	4.07	30.57
12.0-13.0	5209.5	123.6	1040.3	4.12	34.70
13.0-14.0	4840.2	123.9	1164.2	4.13	38.83
14.0-15.0	4473.2	122.8	1287.1	4.10	42.92
15.0-16.0	4113.8	120.6	1407.6	4.02	46.94
16.0-17.0	3766.9	117.3	1524.9	3.91	50.86
17.0-18.0	3430.7	113.1	1638.1	3.77	54.63
18.0-19.0	3109.7	108.2	1746.3	3.61	58.24
19.0-20.0	2805.1	102.7	1848.9	3.42	61.66
20.0-21.0	2522.3	96.9	1945.8	3.23	64.89
21.0-22.0	2260.1	90.8	2036.6	3.03	67.92
22.0-23.0	2012.3	84.4	2121.1	2.82	70.74
23.0-24.0	1785.6	78.1	2199.2	2.60	73.34
24.0-25.0	1584.9	72.1	2271.2	2.40	75.75
25.0-26.0	1411.0	66.6	2337.9	2.22	77.97
26.0-27.0	1261.8	61.7	2399.6	2.06	80.03
27.0-28.0	1134.0	57.4	2457.0	1.92	81.94
28.0-29.0	1022.7	53.5	2510.5	1.78	83.73
29.0-30.0	926.9	50.1	2560.6	1.67	85.40
30.0-31.0	844.6	47.0	2607.6	1.57	86.97
31.0-32.0	772.8	44.3	2651.9	1.48	88.44
32.0-33.0	707.4	41.7	2693.6	1.39	89.83
33.0-34.0	644.9	39.0	2732.6	1.30	91.13
34.0-35.0	582.3	36.2	2768.8	1.21	92.34
35.0-36.0	518.3	33.0	2801.8	1.10	93.44

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:

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	453.1	29.6	2831.3	0.99	94.43
37.0-38.0	389.4	26.0	2857.3	0.87	95.29
38.0-39.0	331.0	22.6	2879.9	0.75	96.05
39.0-40.0	280.2	19.5	2899.5	0.65	96.70
40.0-41.0	236.7	16.9	2916.3	0.56	97.26
41.0-42.0	198.9	14.5	2930.8	0.48	97.74
42.0-43.0	166.6	12.3	2943.1	0.41	98.16
43.0-44.0	139.6	10.5	2953.6	0.35	98.51
44.0-45.0	117.0	9.0	2962.6	0.30	98.81
45.0-46.0	97.6	7.6	2970.3	0.25	99.06
46.0-47.0	80.7	6.4	2976.7	0.21	99.28
47.0-48.0	66.0	5.3	2982.0	0.18	99.45
48.0-49.0	52.8	4.3	2986.4	0.14	99.60
49.0-50.0	41.3	3.4	2989.8	0.11	99.71
50.0-51.0	31.6	2.7	2992.5	0.09	99.80
51.0-52.0	23.3	2.0	2994.5	0.07	99.87
52.0-53.0	16.7	1.5	2995.9	0.05	99.92
53.0-54.0	11.0	1.0	2996.9	0.03	99.95
54.0-55.0	6.8	0.6	2997.5	0.02	99.97
55.0-56.0	4.2	0.4	2997.9	0.01	99.98
56.0-57.0	2.3	0.2	2998.1	0.01	99.99
57.0-58.0	1.5	0.1	2998.2	0.00	99.99
58.0-59.0	1.1	0.1	2998.3	0.00	100.00
59.0-60.0	0.5	0.0	2998.4	0.00	100.00
60.0-61.0	0.2	0.0	2998.4	0.00	100.00
61.0-62.0	0.1	0.0	2998.4	0.00	100.00
62.0-63.0	0.0	0.0	2998.4	0.00	100.00
63.0-64.0	0.0	0.0	2998.4	0.00	100.00
64.0-65.0	0.0	0.0	2998.4	0.00	100.00
65.0-66.0	0.0	0.0	2998.4	0.00	100.00
66.0-67.0	0.0	0.0	2998.4	0.00	100.00
67.0-68.0	0.0	0.0	2998.4	0.00	100.00
68.0-69.0	0.0	0.0	2998.4	0.00	100.00
69.0-70.0	0.0	0.0	2998.4	0.00	100.00
70.0-71.0	0.0	0.0	2998.4	0.00	100.00
71.0-72.0	0.0	0.0	2998.4	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:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	8118.1	8087.6	8118.1	8087.6	8118.1					
G1.0	8126.2	8064.2	8063.5	8070.6	8126.2					
G2.0	8108.3	7996.9	7964.0	8024.8	8108.3					
G3.0	8047.2	7886.9	7823.4	7934.1	8047.2					
G4.0	7944.2	7724.4	7632.3	7804.8	7944.2					
G5.0	7797.2	7520.4	7401.5	7628.7	7797.2					
G6.0	7612.7	7272.0	7119.0	7411.8	7612.7					
G7.0	7370.0	6981.6	6819.8	7153.4	7370.0					
G8.0	7110.9	6660.4	6494.6	6869.7	7110.9					
G9.0	6802.4	6328.0	6162.2	6550.9	6802.4					
G10.0	6488.6	5968.4	5784.2	6217.8	6488.6					
G11.0	6131.6	5602.6	5421.8	5875.1	6131.6					
G12.0	5776.1	5231.4	5054.1	5517.0	5776.1					
G13.0	5398.1	4871.5	4687.3	5140.2	5398.1					
G14.0	5026.9	4496.0	4324.9	4776.3	5026.9					
G15.0	4642.5	4139.7	3972.4	4407.0	4642.5					
G16.0	4288.8	3780.8	3621.2	4057.6	4288.8					
G17.0	3930.0	3436.8	3299.3	3720.5	3930.0					
G18.0	3593.3	3111.0	2977.7	3377.1	3593.3					
G19.0	3252.5	2808.2	2685.8	3071.9	3252.5					
G20.0	2945.9	2517.6	2392.3	2766.5	2945.9					
G21.0	2664.4	2244.6	2154.4	2492.3	2664.4					
G22.0	2392.6	1996.0	1913.0	2223.6	2392.6					
G23.0	2130.3	1767.2	1695.1	1980.7	2130.3					
G24.0	1892.4	1565.8	1501.4	1752.1	1892.4					
G25.0	1672.0	1397.1	1335.3	1563.2	1672.0					
G26.0	1487.0	1242.7	1201.7	1389.2	1487.0					
G27.0	1329.3	1115.3	1080.9	1248.7	1329.3					
G28.0	1195.4	999.3	982.4	1120.5	1195.4					
G29.0	1072.1	902.0	895.3	1014.6	1072.1					
G30.0	969.3	820.3	821.3	920.1	969.3					
G31.0	882.6	746.9	756.9	839.7	882.6					
G32.0	803.4	680.8	702.7	769.8	803.4					
G33.0	736.8	618.5	643.5	703.9	736.8					
G34.0	672.9	554.3	587.5	641.6	672.9					
G35.0	611.8	484.4	523.0	582.7	611.8					
G36.0	550.5	419.7	453.1	521.1	550.5					

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	481.5	359.1	388.9	451.0	481.5					
G38.0	412.6	305.2	329.0	387.5	412.6					
G39.0	352.0	256.0	280.6	325.5	352.0					
G40.0	298.0	216.2	239.1	274.2	298.0					
G41.0	253.2	181.4	199.5	232.2	253.2					
G42.0	211.6	150.8	168.0	194.7	211.6					
G43.0	176.3	126.9	141.0	163.2	176.3					
G44.0	148.4	103.6	120.3	137.0	148.4					
G45.0	124.3	85.4	100.7	116.4	124.3					
G46.0	103.1	69.7	83.5	97.6	103.1					
G47.0	86.1	54.4	68.7	82.3	86.1					
G48.0	69.9	42.5	55.6	68.5	69.9					
G49.0	55.4	32.2	43.2	54.9	55.4					
G50.0	43.4	24.1	32.9	44.1	43.4					
G51.0	33.2	15.0	24.6	35.1	33.2					
G52.0	24.8	10.0	17.4	26.5	24.8					
G53.0	17.7	6.4	10.5	20.5	17.7					
G54.0	11.2	3.3	5.7	12.9	11.2					
G55.0	7.2	2.9	3.3	7.6	7.2					
G56.0	3.8	1.7	2.4	4.5	3.8					
G57.0	2.2	0.2	0.9	2.6	2.2					
G58.0	1.9	0.0	0.9	2.9	1.9					
G59.0	0.7	0.5	0.0	1.7	0.7					
G60.0	0.0	0.0	0.0	1.2	0.0					
G61.0	0.5	0.0	0.2	0.0	0.5					
G62.0	0.0	0.0	0.0	0.2	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:

