

Report No.: 37 1.5 M WH

Test Time: 2025-06-05 16:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.2830 A

Power Factor: 0.9760

Luminaire Description: 37-415-65

Lamp Description: 6V 1W Ra90 4000K

Lumens per Lamp:

Luminous Width (mm):

Voltage: 229.40 V

Power: 63.45 W

Photometric Results

CIE Class: Direct

Measurement Flux: 8810.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H63.7

Vertical Diffuse Angle(50%): V57.1

Luminous Efficacy (lm/w): 138.86

Max. Intensity: 9536.1 cd

S/MH(C0/C180): 0.98

Total Rated Lamp Lumens: 8810.7 lm

Efficiency: 100%

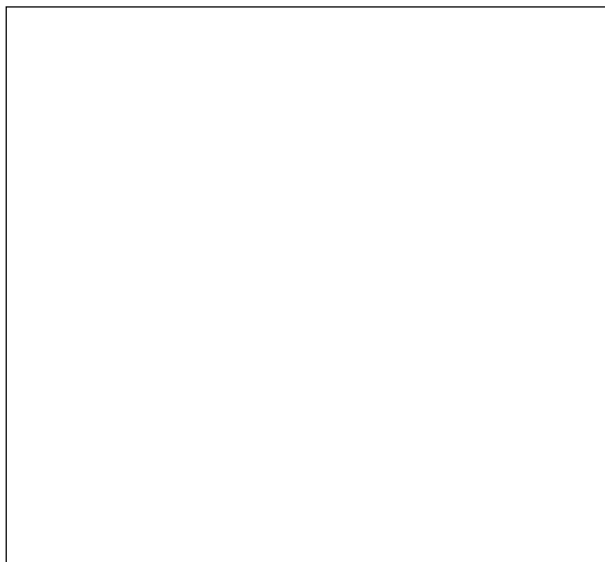
Upward Ratio: 0%

C0r0 Intensity: 9526.01 cd

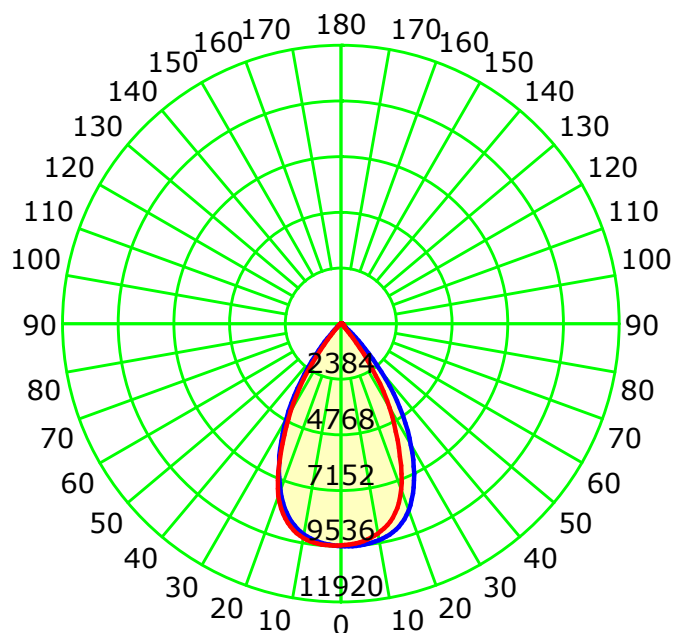
Pos of Max. Intensity: H0 V3

S/MH(C90/C270): 0.90

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 60.4°

— C0-C180 — C90-C270

C Plane (°): 0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature: 26

Operator:

Gamma Plane (°): 0.0-90.0: 1.0

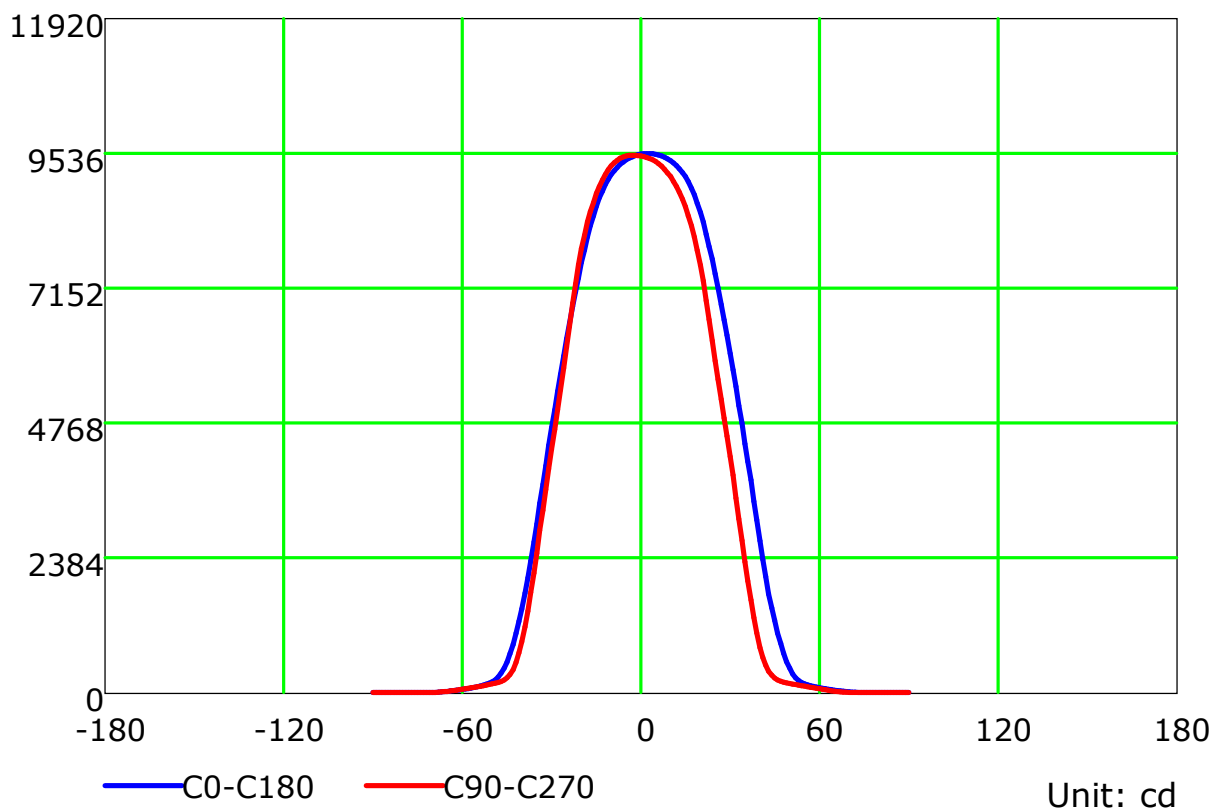
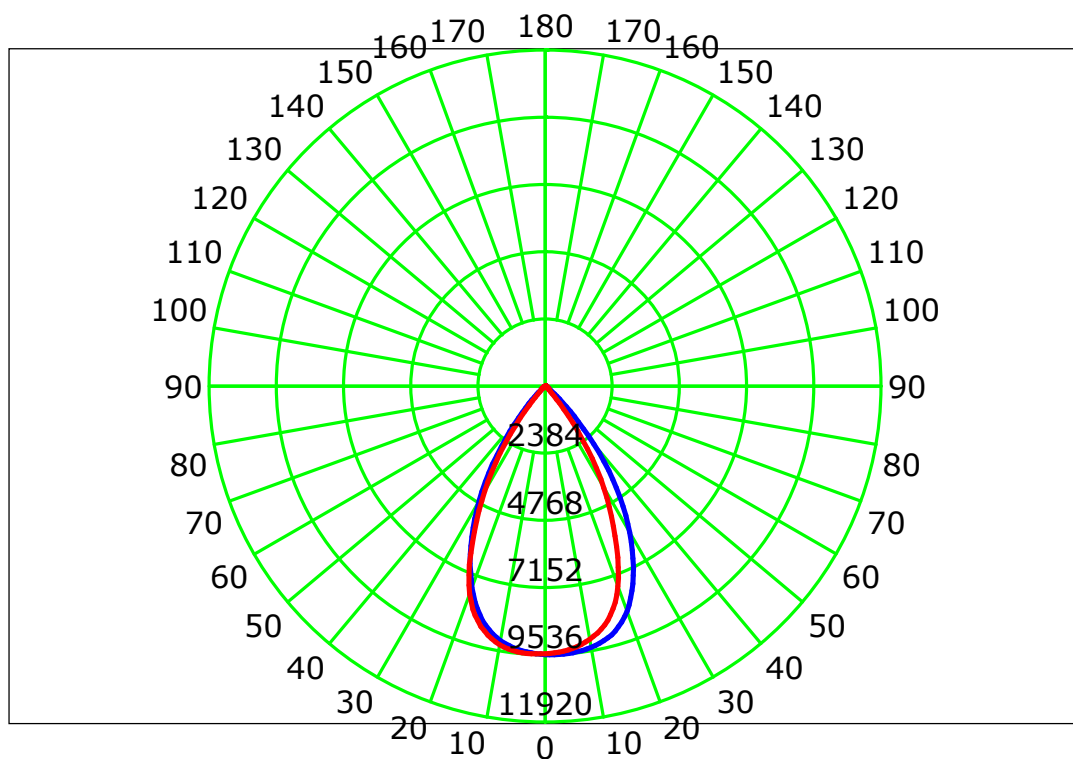
Test Device: GPM-1600L

Distance: 10.695 m [K=1.0000]

Humidity: 60

Inspector:

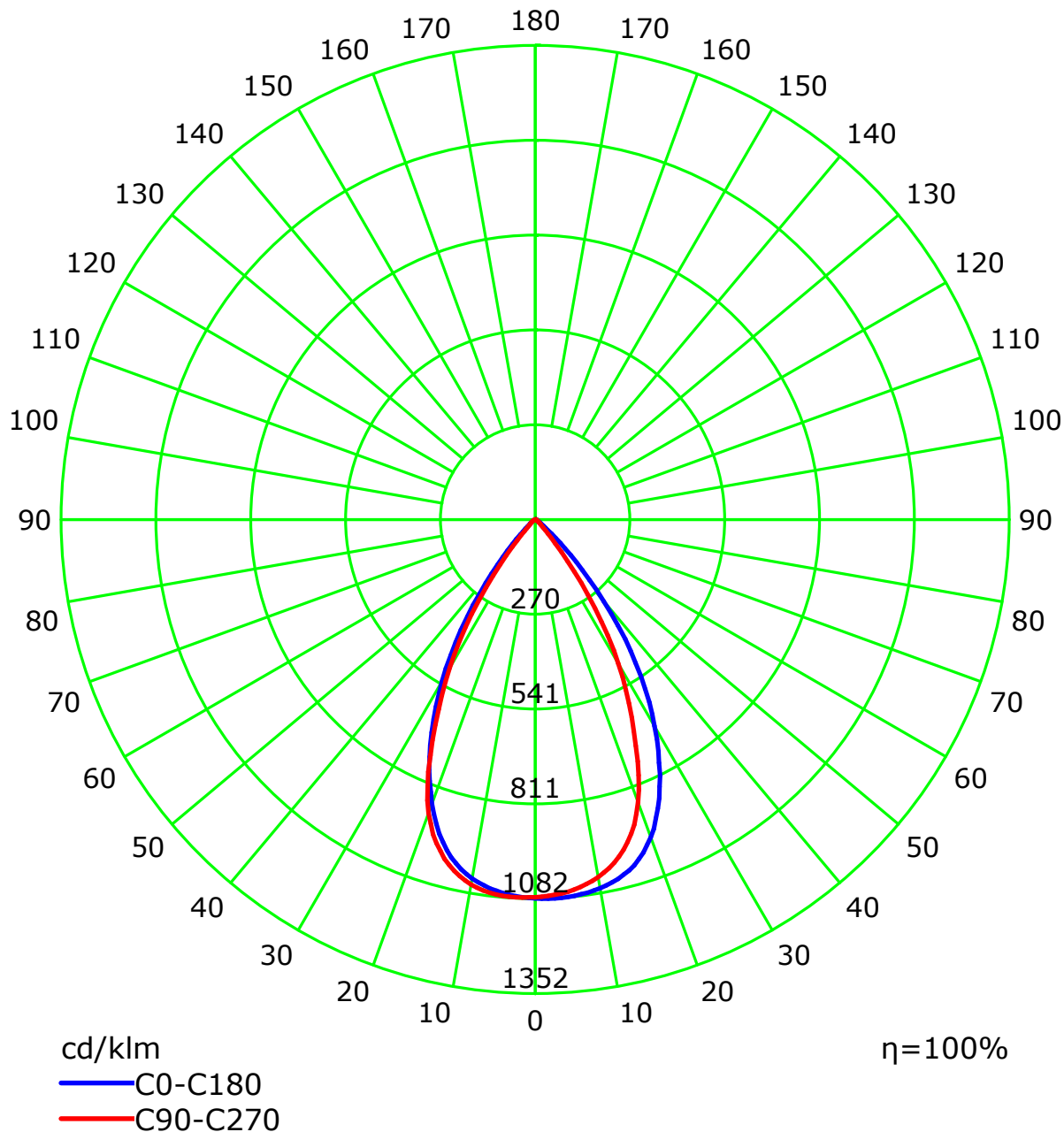
Luminous Intensity Distribution Curve



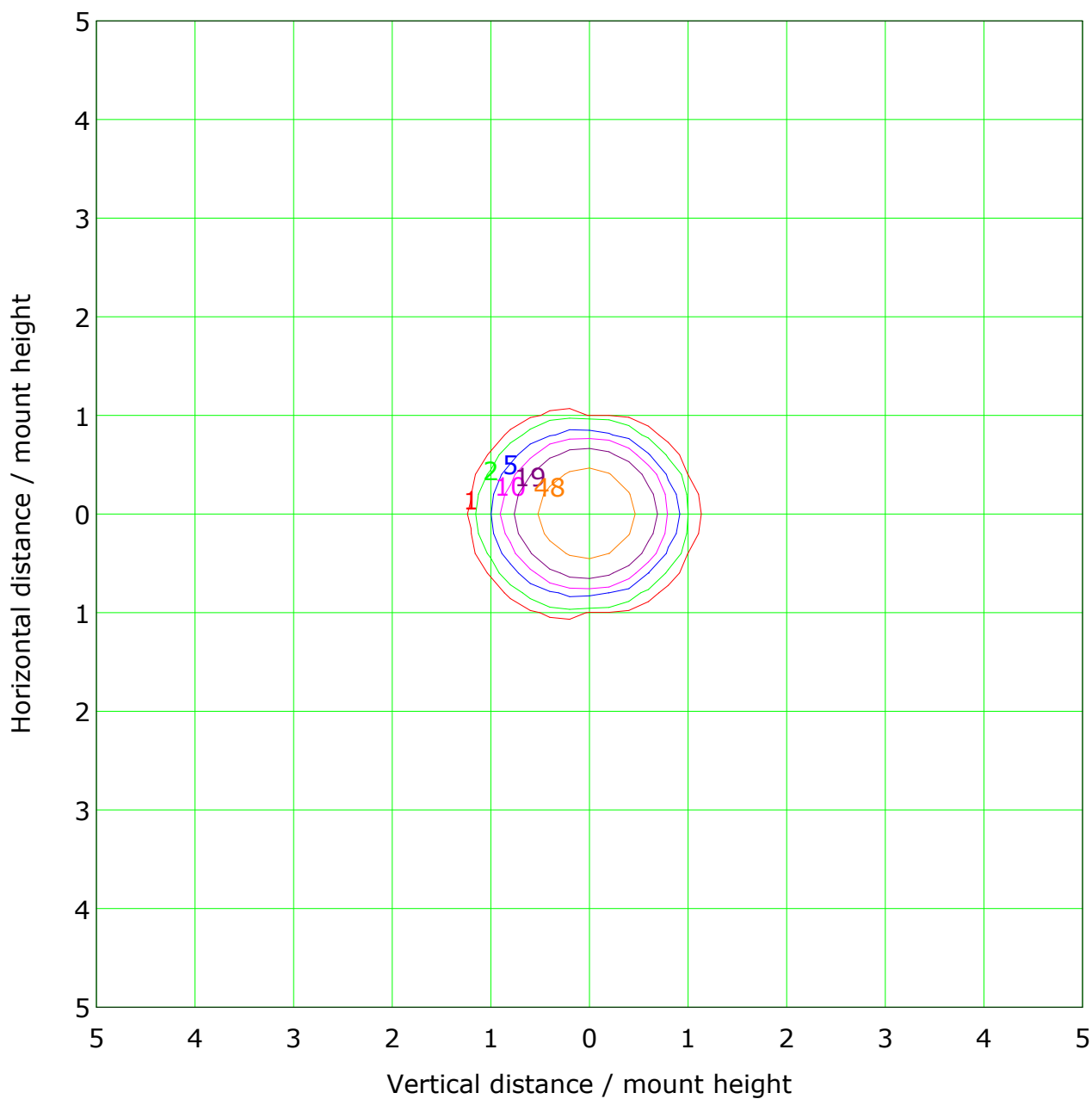
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 95.3 lx

(1%): 1.0 lx	(2%): 1.9 lx
(5%): 4.8 lx	(10%): 9.5 lx
(20%): 19.1 lx	(50%): 47.6 lx
(100%): 95.3 lx	

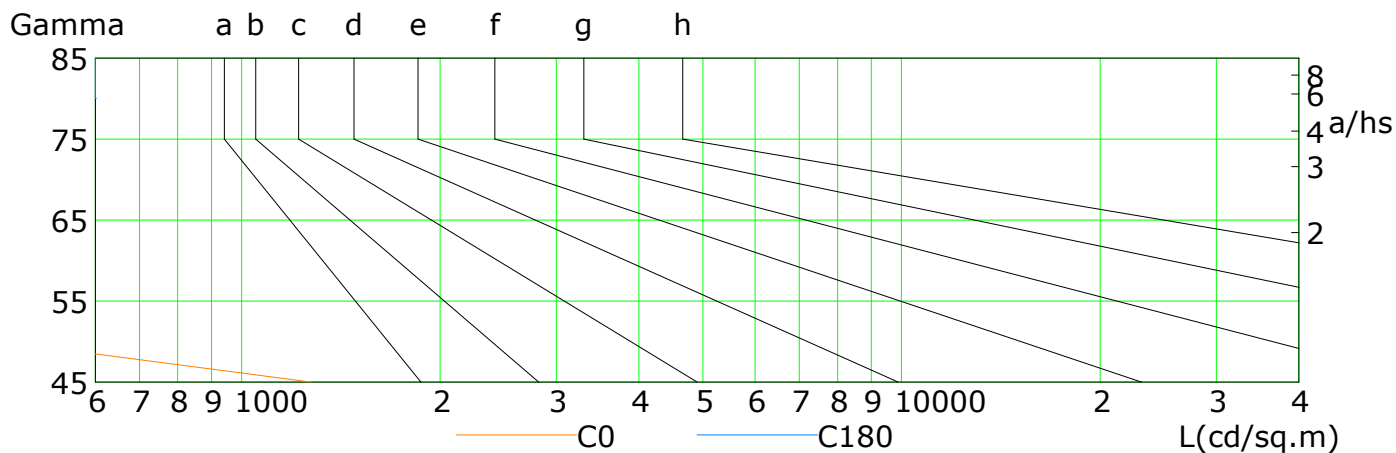
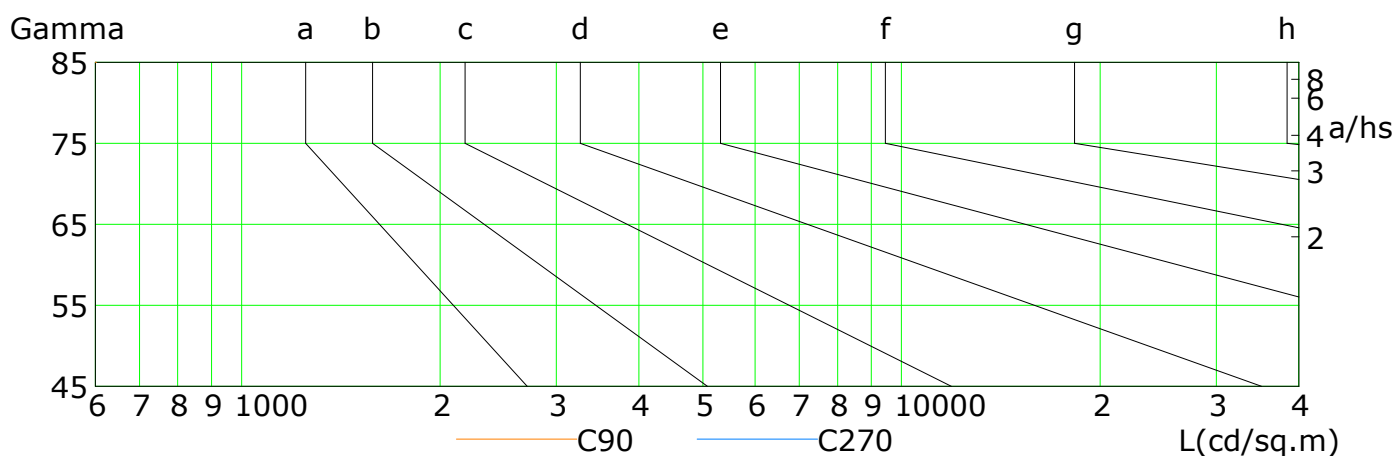
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
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

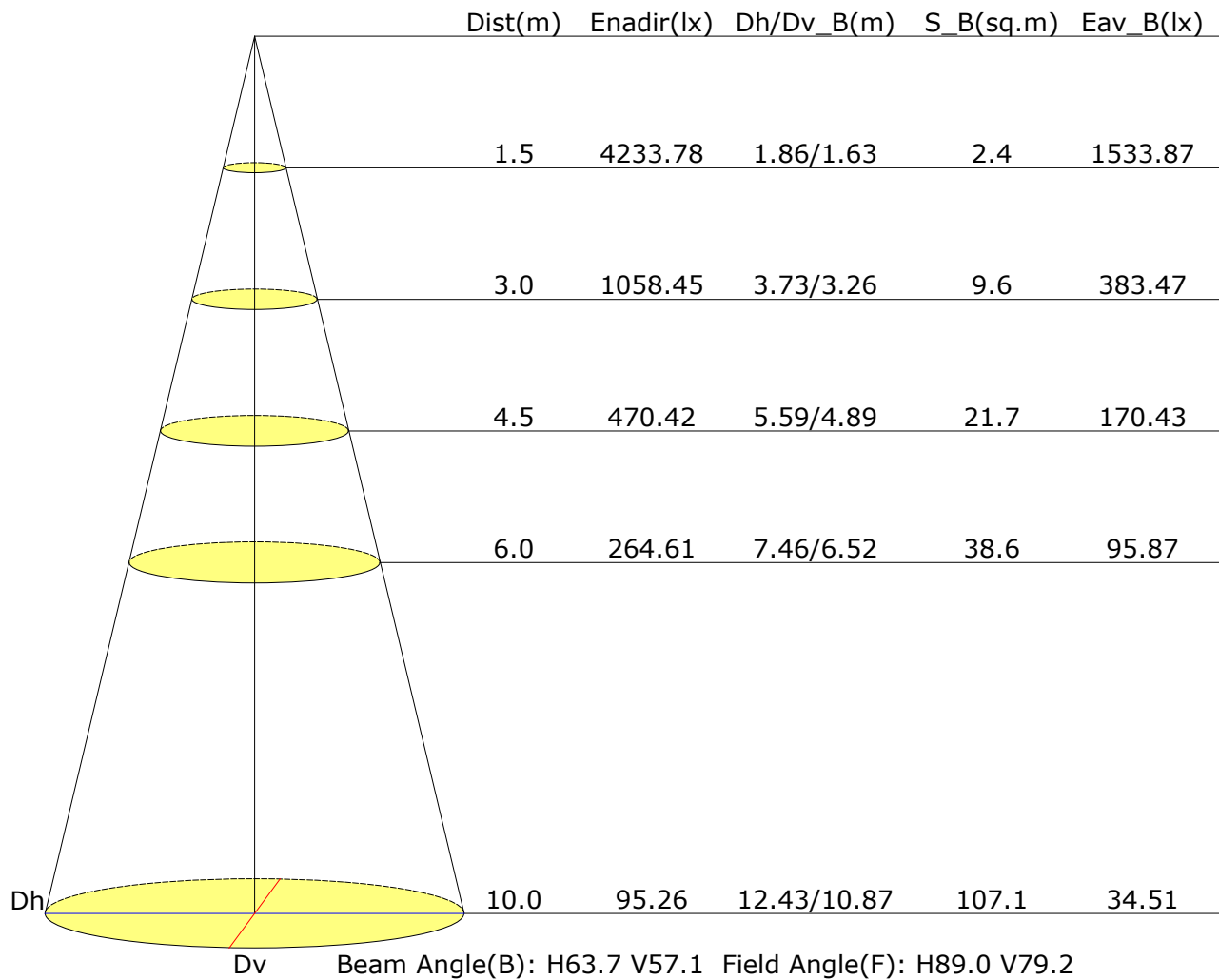


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1274	434	158	89	45	17	0	1	1
C90	255	162	115	69	26	3	1	1	0
C180	542	190	106	57	22	2	0	0	0
C270	262	155	104	60	23	1	1	1	1

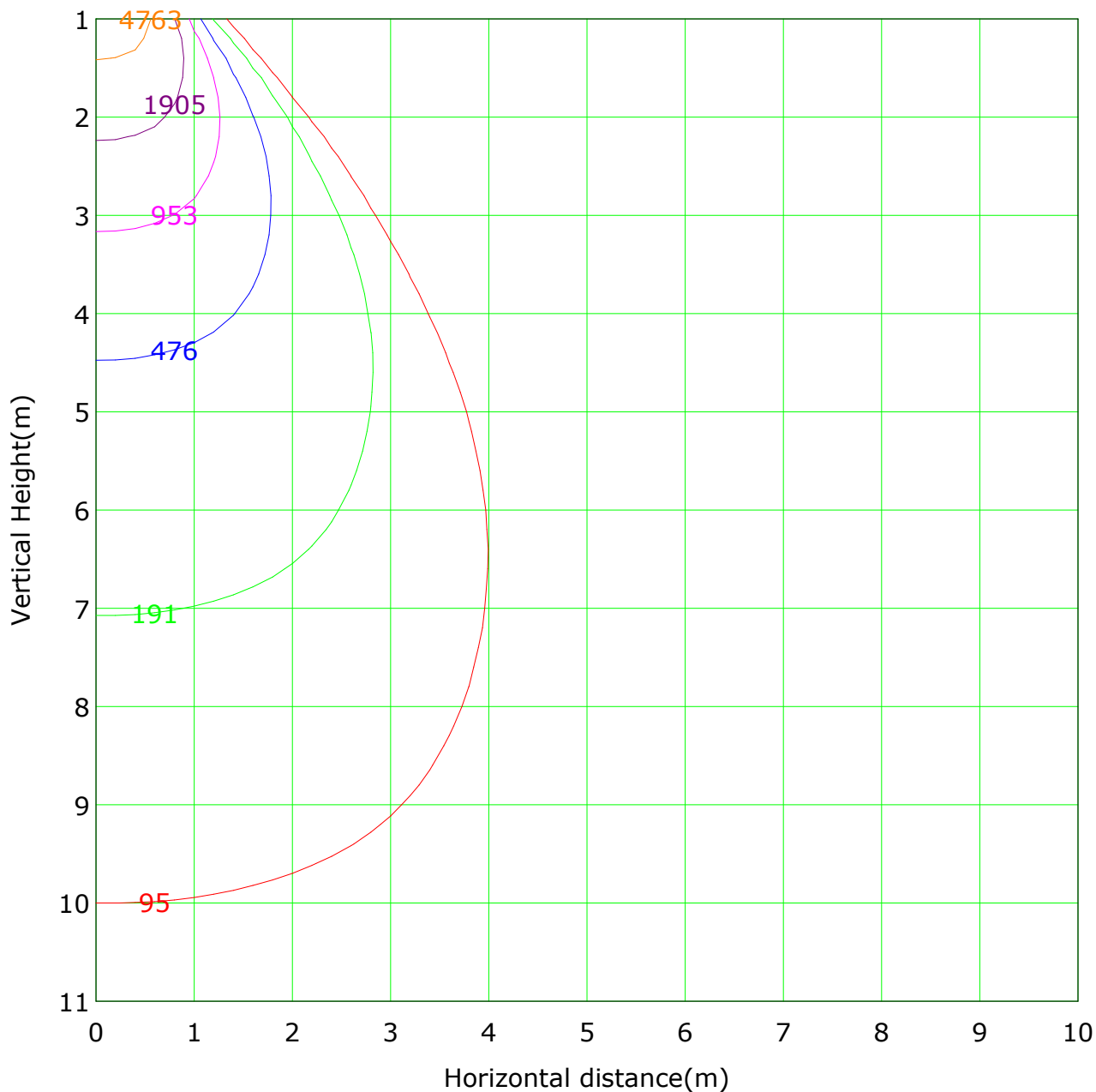
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

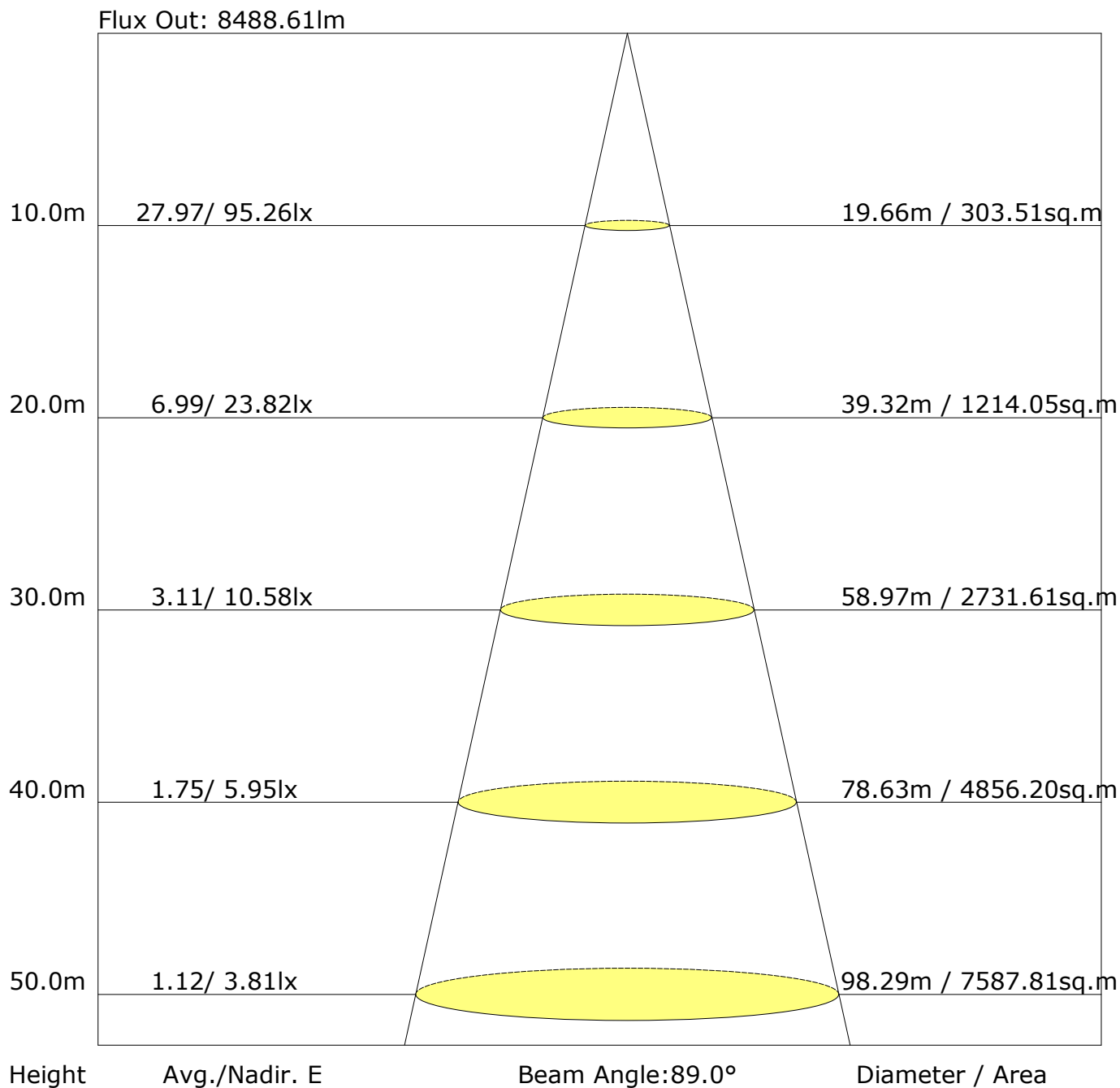


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 9526.0 lx

— (1%): 95.3 lx	— (2%): 190.5 lx
— (5%): 476.3 lx	— (10%): 952.6 lx
— (20%): 1905.2 lx	— (50%): 4763.0 lx
— (100%): 9526.0 lx	

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector:

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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 8811lm ($8\log(F/F_0) = 7.6$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	9508.7	9.1	9.1	0.10	0.10
1.0-2.0	9504.6	27.3	36.4	0.31	0.41
2.0-3.0	9497.2	45.4	81.8	0.52	0.93
3.0-4.0	9485.5	63.5	145.3	0.72	1.65
4.0-5.0	9469.5	81.5	226.8	0.92	2.57
5.0-6.0	9446.4	99.3	326.1	1.13	3.70
6.0-7.0	9416.2	116.9	443.0	1.33	5.03
7.0-8.0	9379.2	134.3	577.2	1.52	6.55
8.0-9.0	9334.7	151.3	728.5	1.72	8.27
9.0-10.0	9283.7	168.0	896.6	1.91	10.18
10.0-11.0	9220.9	184.3	1080.8	2.09	12.27
11.0-12.0	9147.4	200.0	1280.8	2.27	14.54
12.0-13.0	9062.8	215.1	1495.9	2.44	16.98
13.0-14.0	8962.3	229.4	1725.3	2.60	19.58
14.0-15.0	8849.8	243.0	1968.3	2.76	22.34
15.0-16.0	8718.4	255.5	2223.8	2.90	25.24
16.0-17.0	8566.8	266.8	2490.6	3.03	28.27
17.0-18.0	8400.5	277.0	2767.7	3.14	31.41
18.0-19.0	8205.6	285.5	3053.2	3.24	34.65
19.0-20.0	7989.0	292.4	3345.6	3.32	37.97
20.0-21.0	7754.6	297.8	3643.4	3.38	41.35
21.0-22.0	7484.7	300.8	3944.2	3.41	44.77
22.0-23.0	7197.6	302.1	4246.3	3.43	48.19
23.0-24.0	6891.7	301.4	4547.7	3.42	51.62
24.0-25.0	6571.3	298.8	4846.5	3.39	55.01
25.0-26.0	6257.9	295.4	5141.9	3.35	58.36
26.0-27.0	5931.5	290.2	5432.2	3.29	61.65
27.0-28.0	5604.9	283.8	5716.0	3.22	64.88
28.0-29.0	5289.3	276.8	5992.7	3.14	68.02
29.0-30.0	4960.5	267.9	6260.6	3.04	71.06
30.0-31.0	4631.5	257.8	6518.4	2.93	73.98
31.0-32.0	4294.2	246.0	6764.4	2.79	76.78
32.0-33.0	3939.4	232.1	6996.5	2.63	79.41
33.0-34.0	3592.2	217.4	7213.9	2.47	81.88
34.0-35.0	3231.2	200.7	7414.6	2.28	84.16
35.0-36.0	2874.7	183.1	7597.7	2.08	86.23

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	2542.2	165.8	7763.5	1.88	88.11
37.0-38.0	2210.7	147.6	7911.1	1.68	89.79
38.0-39.0	1902.1	129.8	8041.0	1.47	91.26
39.0-40.0	1612.4	112.5	8153.4	1.28	92.54
40.0-41.0	1350.5	96.2	8249.6	1.09	93.63
41.0-42.0	1132.1	82.3	8331.9	0.93	94.57
42.0-43.0	936.8	69.4	8401.3	0.79	95.35
43.0-44.0	773.7	58.4	8459.7	0.66	96.02
44.0-45.0	643.3	49.4	8509.1	0.56	96.58
45.0-46.0	532.8	41.7	8550.8	0.47	97.05
46.0-47.0	442.3	35.2	8586.0	0.40	97.45
47.0-48.0	367.7	29.7	8615.7	0.34	97.79
48.0-49.0	305.4	25.1	8640.8	0.28	98.07
49.0-50.0	256.5	21.4	8662.2	0.24	98.31
50.0-51.0	216.8	18.3	8680.5	0.21	98.52
51.0-52.0	185.4	15.9	8696.4	0.18	98.70
52.0-53.0	161.8	14.1	8710.5	0.16	98.86
53.0-54.0	142.5	12.6	8723.1	0.14	99.01
54.0-55.0	127.2	11.4	8734.4	0.13	99.13
55.0-56.0	114.5	10.3	8744.8	0.12	99.25
56.0-57.0	102.8	9.4	8754.2	0.11	99.36
57.0-58.0	92.4	8.5	8762.7	0.10	99.46
58.0-59.0	82.7	7.7	8770.5	0.09	99.54
59.0-60.0	73.3	6.9	8777.4	0.08	99.62
60.0-61.0	64.2	6.1	8783.5	0.07	99.69
61.0-62.0	55.5	5.4	8788.9	0.06	99.75
62.0-63.0	47.5	4.6	8793.5	0.05	99.80
63.0-64.0	39.6	3.9	8797.4	0.04	99.85
64.0-65.0	32.2	3.2	8800.6	0.04	99.88
65.0-66.0	26.2	2.6	8803.2	0.03	99.91
66.0-67.0	21.2	2.1	8805.3	0.02	99.94
67.0-68.0	16.0	1.6	8806.9	0.02	99.96
68.0-69.0	10.9	1.1	8808.0	0.01	99.97
69.0-70.0	7.2	0.7	8808.8	0.01	99.98
70.0-71.0	4.5	0.5	8809.2	0.01	99.98
71.0-72.0	2.8	0.3	8809.5	0.00	99.99

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 26
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 10.695 m [K=1.0000]
 Humidity: 60
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 8509.13 lm

%lum = 96.6%

%lamp = 96.6%

cone flux(120°): 8777.38 lm

%lum = 99.6%

%lamp = 99.6%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	9526.0	9494.7	9526.0	9494.7	9526.0					
G1.0	9530.5	9481.7	9514.6	9501.3	9530.5					
G2.0	9535.6	9467.1	9499.2	9506.9	9535.6					
G3.0	9536.1	9447.2	9478.5	9507.4	9536.1					
G4.0	9532.7	9424.6	9454.1	9503.2	9532.7					
G5.0	9524.2	9396.2	9426.2	9494.7	9524.2					
G6.0	9510.9	9355.8	9386.4	9476.6	9510.9					
G7.0	9491.2	9312.0	9345.0	9452.0	9491.2					
G8.0	9472.7	9255.5	9289.5	9416.1	9472.7					
G9.0	9442.4	9193.9	9234.0	9373.6	9442.4					
G10.0	9410.8	9128.9	9166.3	9319.8	9410.8					
G11.0	9368.9	9043.1	9081.1	9248.6	9368.9					
G12.0	9322.4	8957.7	8990.6	9166.6	9322.4					
G13.0	9269.6	8853.3	8871.1	9071.0	9269.6					
G14.0	9201.9	8731.8	8750.1	8949.7	9201.9					
G15.0	9132.3	8597.2	8605.7	8829.5	9132.3					
G16.0	9043.1	8436.6	8434.7	8667.8	9043.1					
G17.0	8922.6	8259.5	8260.6	8509.6	8922.6					
G18.0	8805.8	8062.8	8058.5	8324.8	8805.8					
G19.0	8653.5	7822.3	7829.2	8087.5	8653.5					
G20.0	8499.0	7561.4	7605.9	7853.6	8499.0					
G21.0	8326.9	7285.3	7337.0	7568.0	8326.9					
G22.0	8104.2	6935.1	7090.2	7230.6	8104.2					
G23.0	7891.6	6602.8	6835.9	6890.8	7891.6					
G24.0	7670.2	6227.7	6533.5	6481.5	7670.2					
G25.0	7407.6	5872.0	6258.5	6119.6	7407.6					
G26.0	7162.1	5540.7	5956.1	5746.7	7162.1					
G27.0	6864.3	5190.0	5633.9	5358.0	6864.3					
G28.0	6596.1	4857.6	5332.8	5006.3	6596.1					
G29.0	6321.4	4537.0	5003.4	4659.6	6321.4					
G30.0	5997.5	4175.1	4684.0	4305.8	5997.5					
G31.0	5708.2	3845.7	4372.1	3963.6	5708.2					
G32.0	5418.6	3439.8	4012.4	3593.0	5418.6					
G33.0	5076.6	3069.8	3681.7	3223.2	5076.6					
G34.0	4765.8	2694.9	3350.4	2875.2	4765.8					
G35.0	4403.4	2314.5	2981.1	2464.0	4403.4					
G36.0	4083.6	1973.7	2664.1	2113.1	4083.6					

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Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 10.695 m [K=1.0000]
 Humidity: 60
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	3760.5	1641.3	2328.9	1772.7	3760.5					
G38.0	3384.1	1328.1	2030.0	1439.8	3384.1					
G39.0	3052.3	1058.9	1758.7	1165.1	3052.3					
G40.0	2686.7	795.6	1481.3	900.7	2686.7					
G41.0	2354.6	622.0	1258.3	704.5	2354.6					
G42.0	2050.9	481.8	1049.1	535.2	2050.9					
G43.0	1740.6	378.0	852.1	406.7	1740.6					
G44.0	1496.9	309.0	688.3	318.0	1496.9					
G45.0	1274.5	255.4	542.3	262.3	1274.5					
G46.0	1048.6	224.1	433.0	222.2	1048.6					
G47.0	868.6	202.3	341.9	197.5	868.6					
G48.0	693.9	185.6	272.9	179.2	693.9					
G49.0	548.7	171.8	225.1	166.2	548.7					
G50.0	434.0	161.9	190.1	154.5	434.0					
G51.0	334.0	151.3	164.9	143.9	334.0					
G52.0	264.7	142.3	148.4	133.8	264.7					
G53.0	217.7	133.5	131.1	123.2	217.7					
G54.0	180.8	123.2	117.6	112.8	180.8					
G55.0	157.9	114.9	106.2	104.1	157.9					
G56.0	138.8	104.9	95.3	94.0	138.8					
G57.0	124.0	95.6	84.2	85.5	124.0					
G58.0	112.6	86.5	73.5	77.5	112.6					
G59.0	99.3	78.6	64.5	69.0	99.3					
G60.0	89.2	68.8	56.8	60.0	89.2					
G61.0	78.8	58.9	48.3	52.6	78.8					
G62.0	69.0	51.8	41.2	43.8	69.0					
G63.0	61.1	43.0	34.0	36.6	61.1					
G64.0	51.8	32.9	28.4	28.9	51.8					
G65.0	44.6	26.0	22.3	22.6	44.6					
G66.0	37.4	21.0	18.0	18.0	37.4					
G67.0	31.1	15.7	15.4	12.7	31.1					
G68.0	25.0	10.4	9.8	7.7	25.0					
G69.0	19.9	6.4	4.3	4.0	19.9					
G70.0	16.7	2.9	2.4	1.1	16.7					
G71.0	11.1	0.5	0.5	1.1	11.1					
G72.0	7.2	0.8	0.3	0.8	7.2					
G73.0	2.9	0.8	0.0	0.8	2.9					

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector:

Candlepower Table (Continue 2)

Unit: cd

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 10.695 m [K=1.0000]
Humidity: 60
Inspector: