

Report No.:

Test Time: 2025-09-20 18:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 50D

Luminous Width (mm): -35

Current: 0.040 A

Power Factor: 0.613

Luminous Length (mm): -35

Voltage: 235.5 V

Power: 5.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 458.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H58.2

Vertical Diffuse Angle(50%): V58.2

Luminaire Efficacy Rating (LER): 79.07

Max. Intensity: 527.93 cd

S/MH(C0/C180): 0.94

Total Rated Lamp Lumens: 458.3 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 505.27 cd

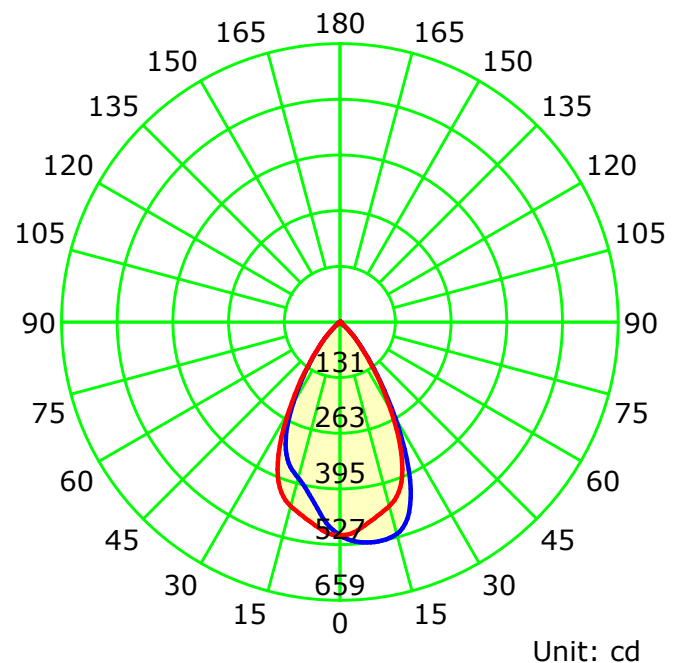
Pos of Max. Intensity: H0 V9

S/MH(C90/C270): 0.94

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

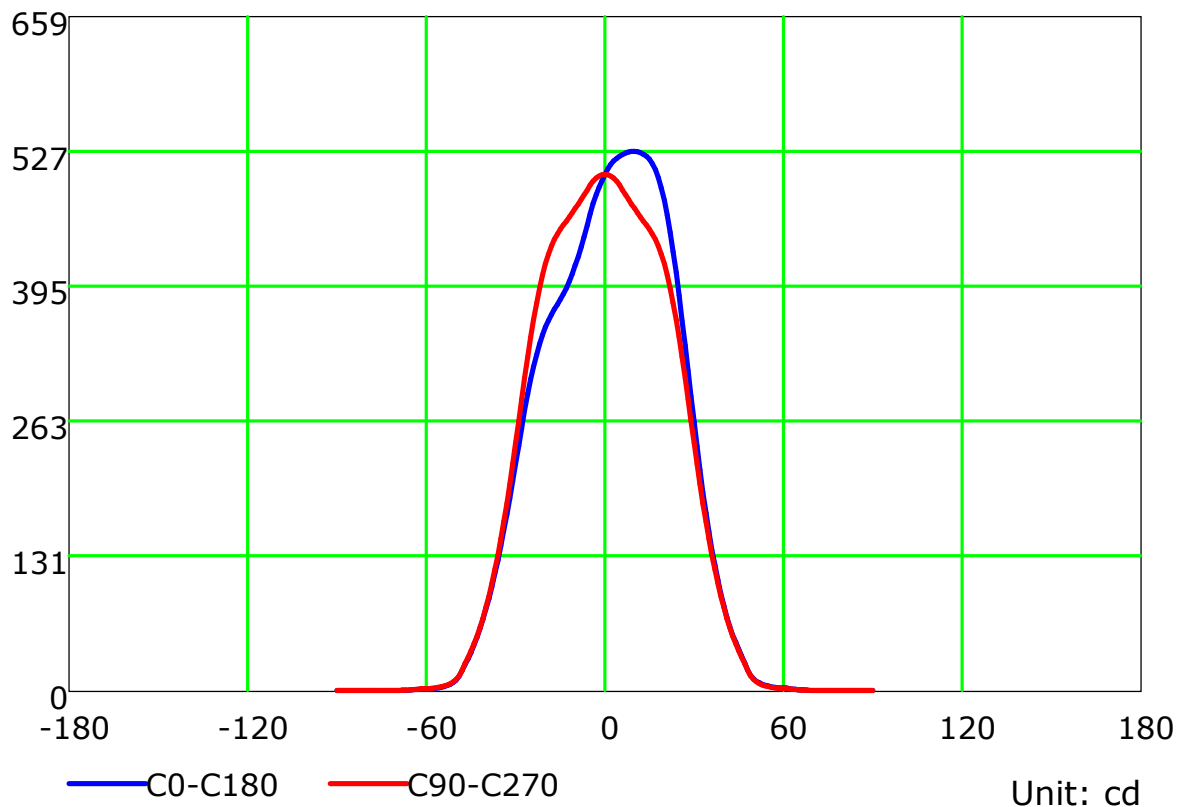
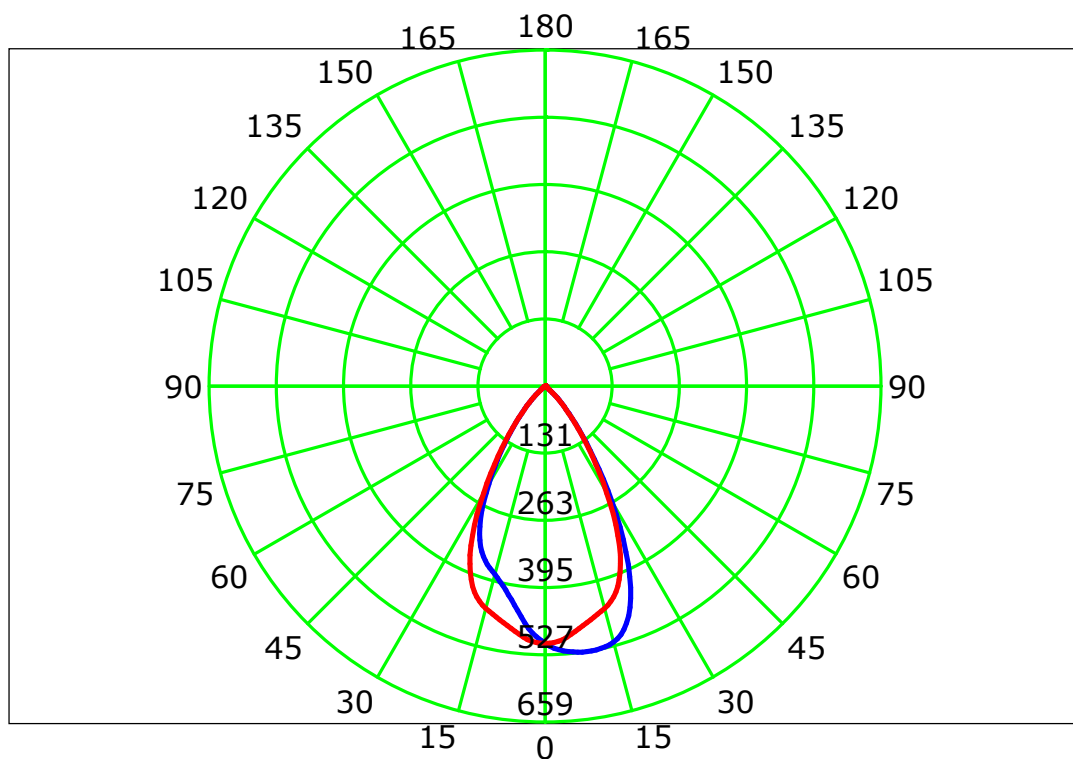
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

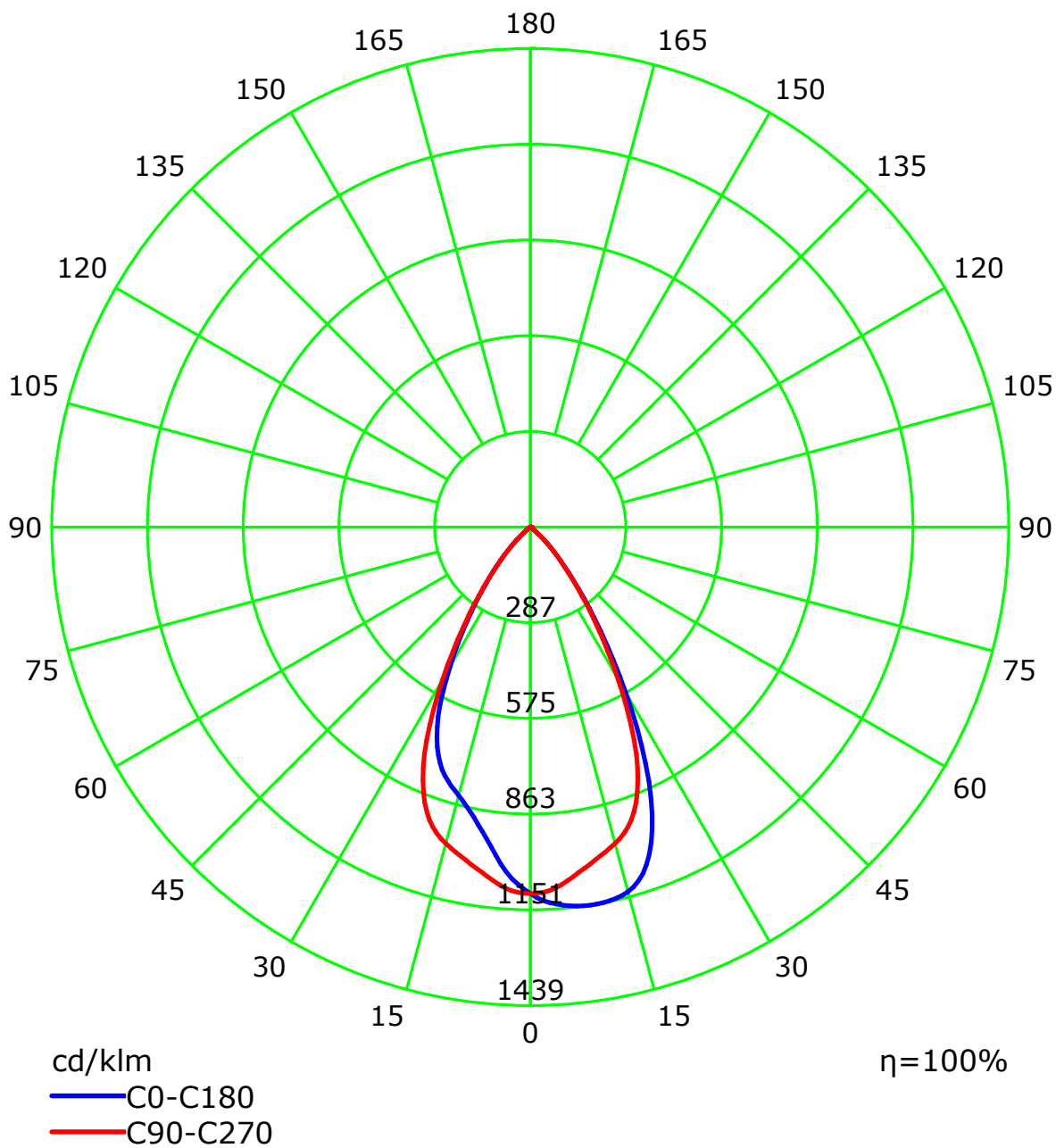


Unit: cd

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

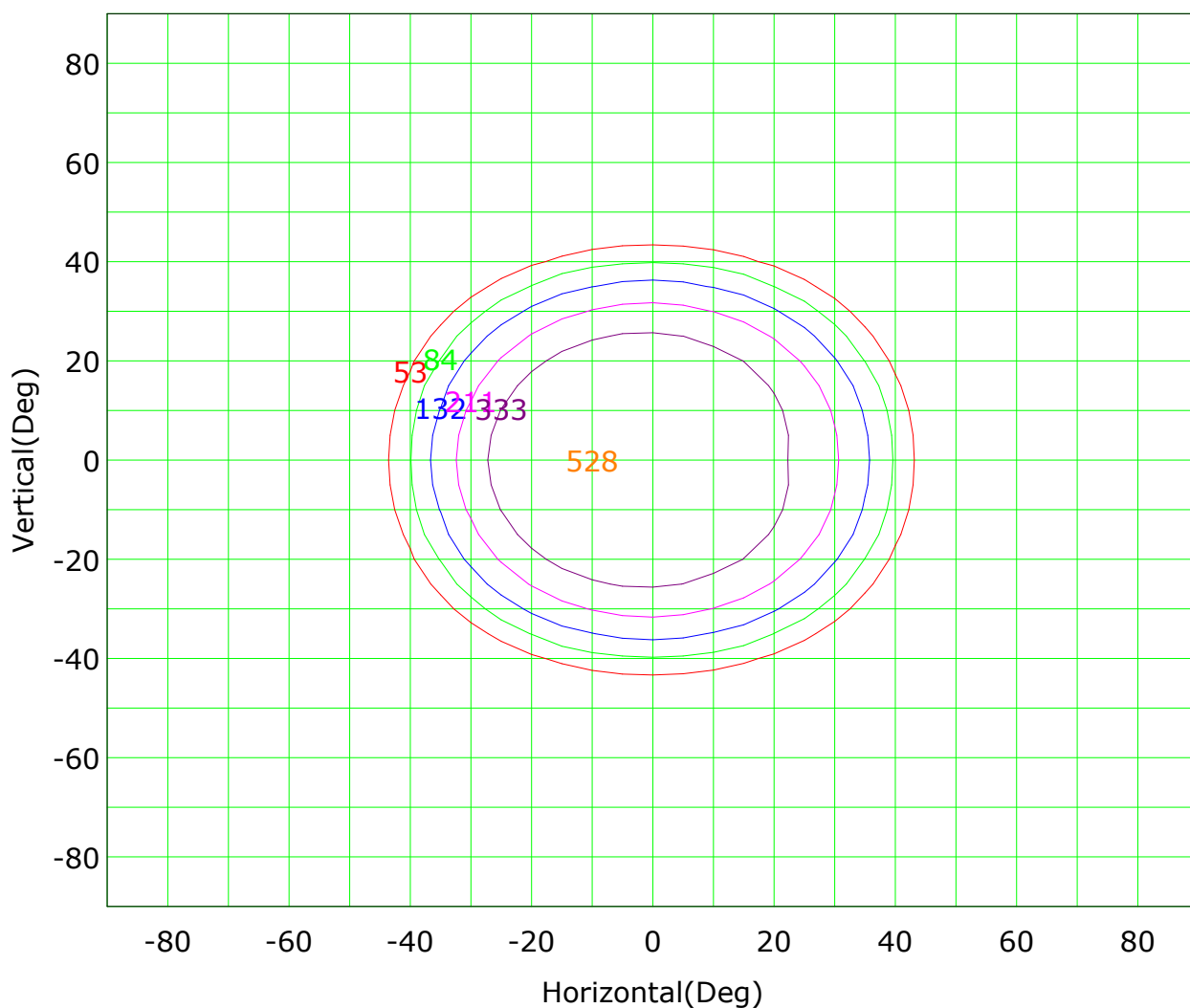
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 528 cd

(10%):	53 cd	(16%):	84 cd
(25%):	132 cd	(40%):	211 cd
(63%):	333 cd	(100%):	528 cd

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

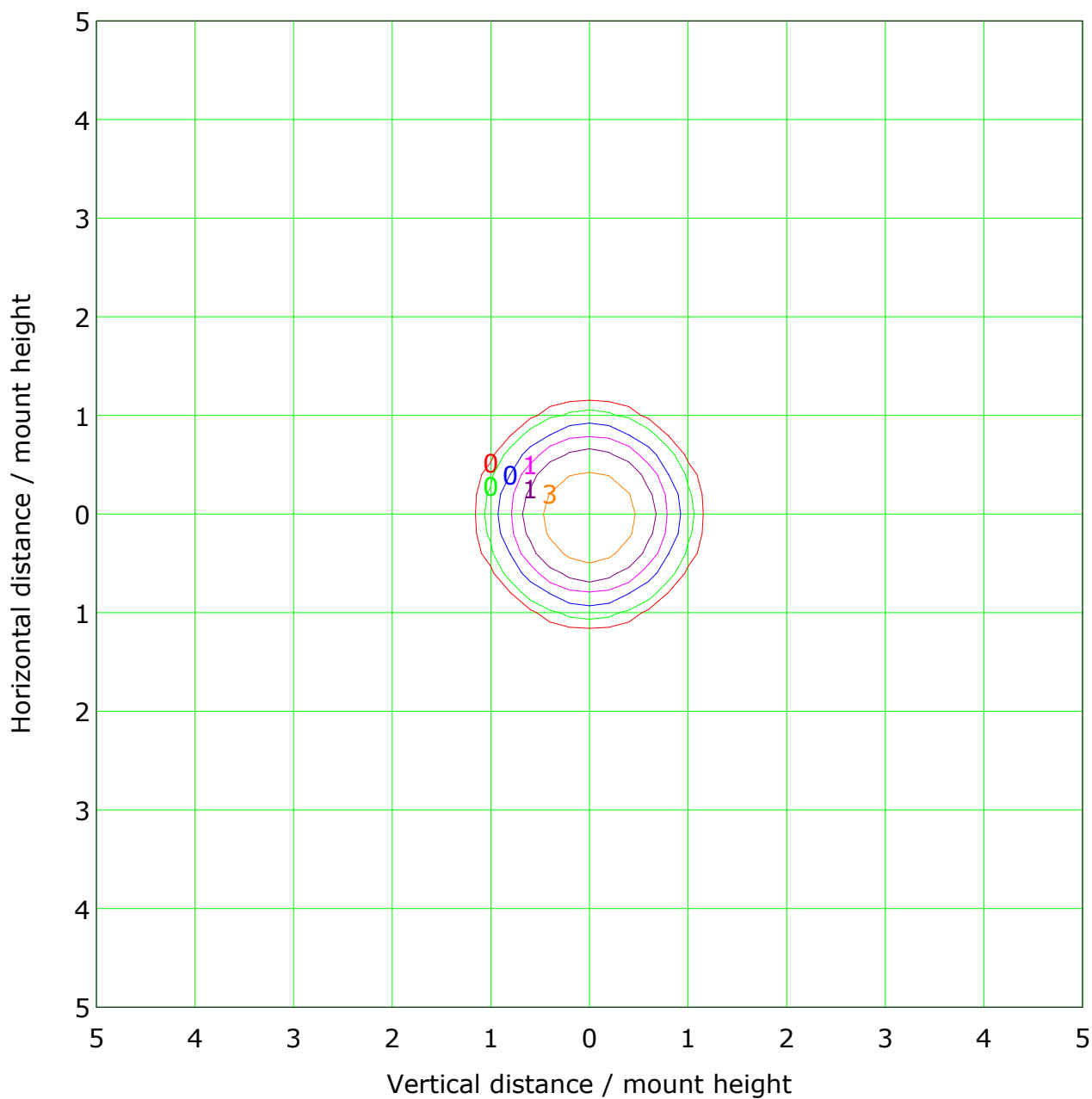
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

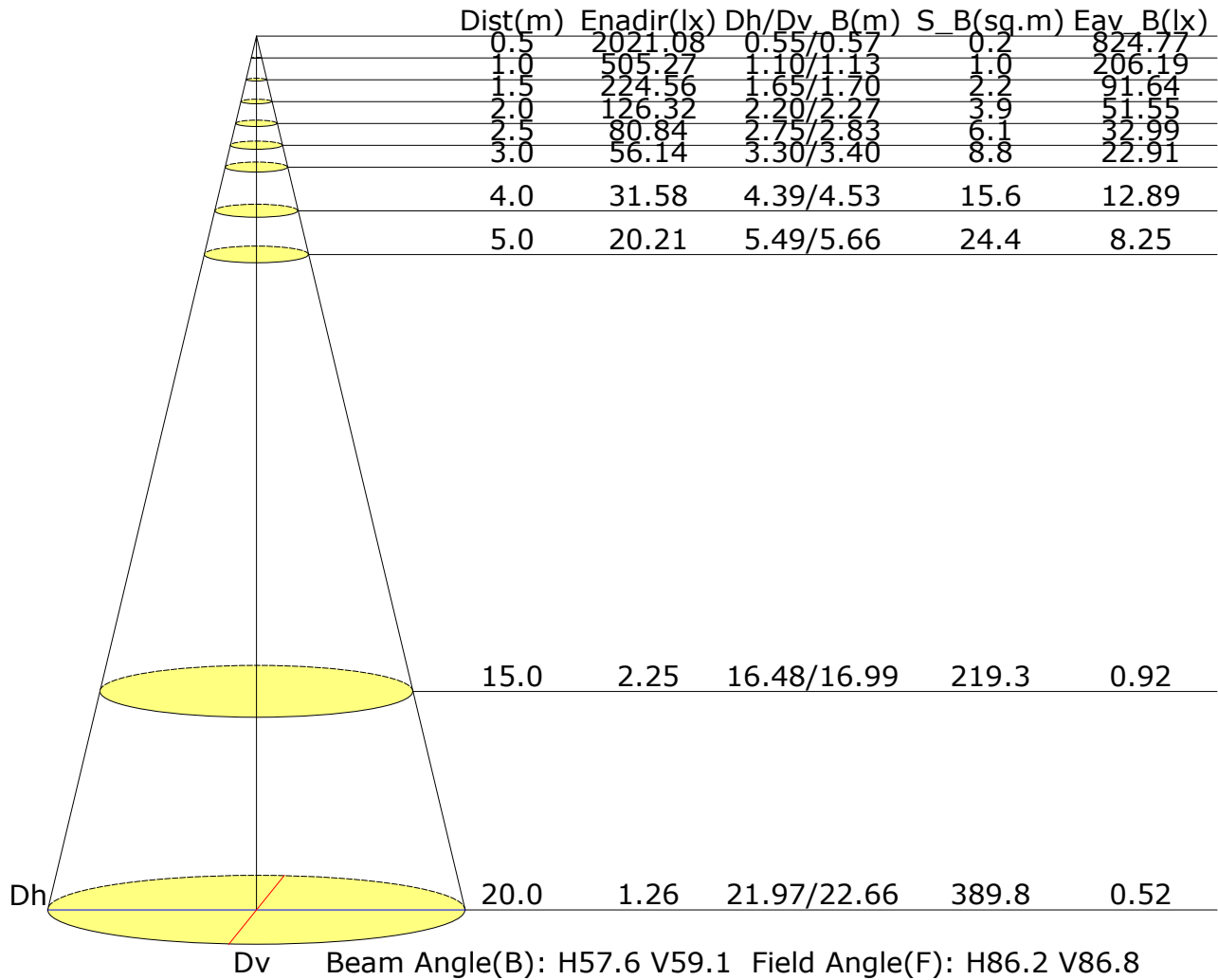
IsoLux Plot



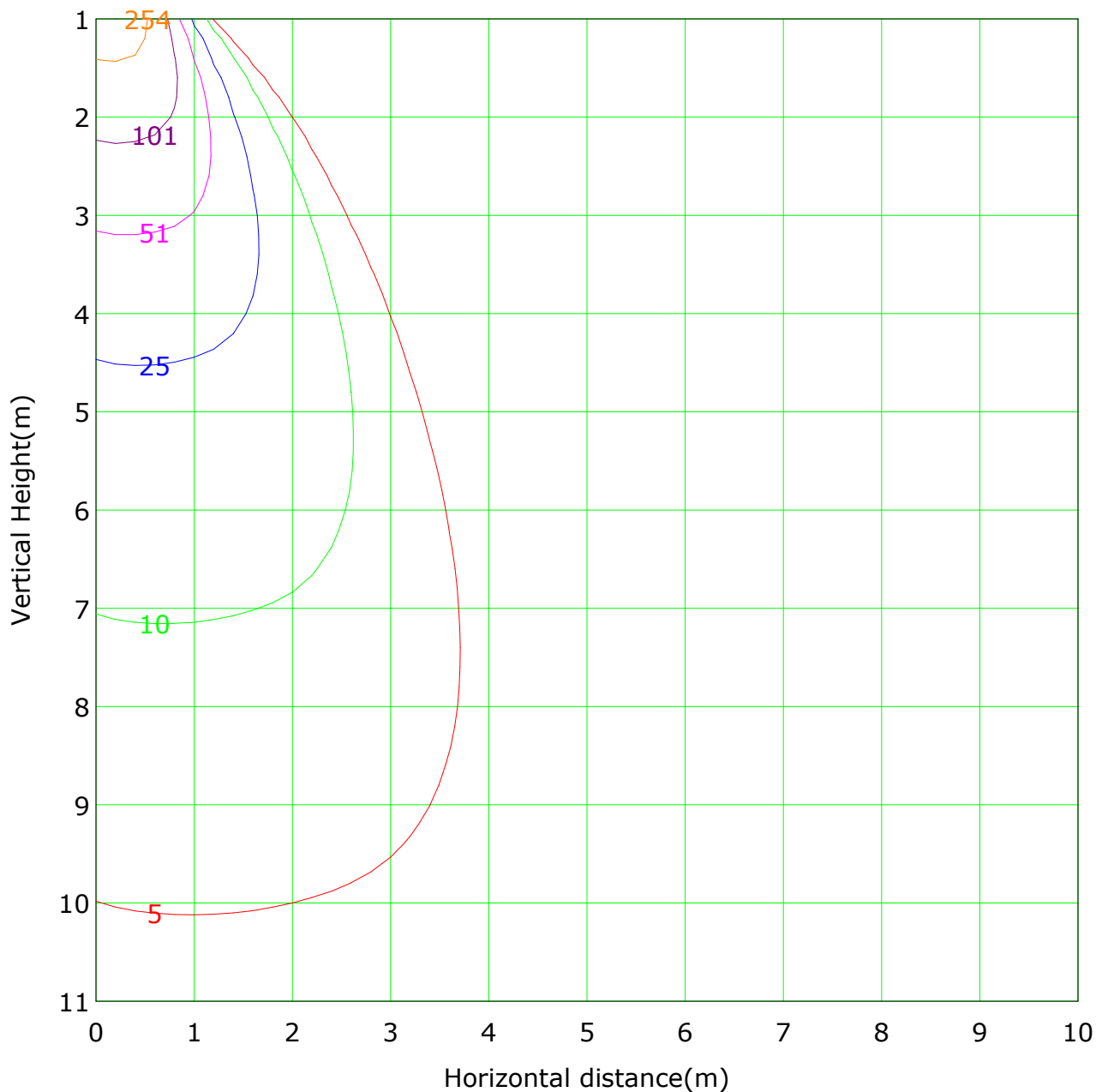
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 507.1 lx

(1%): 5.1 lx	(2%): 10.1 lx
(5%): 25.4 lx	(10%): 50.7 lx
(20%): 101.4 lx	(50%): 253.6 lx
(100%): 507.1 lx	

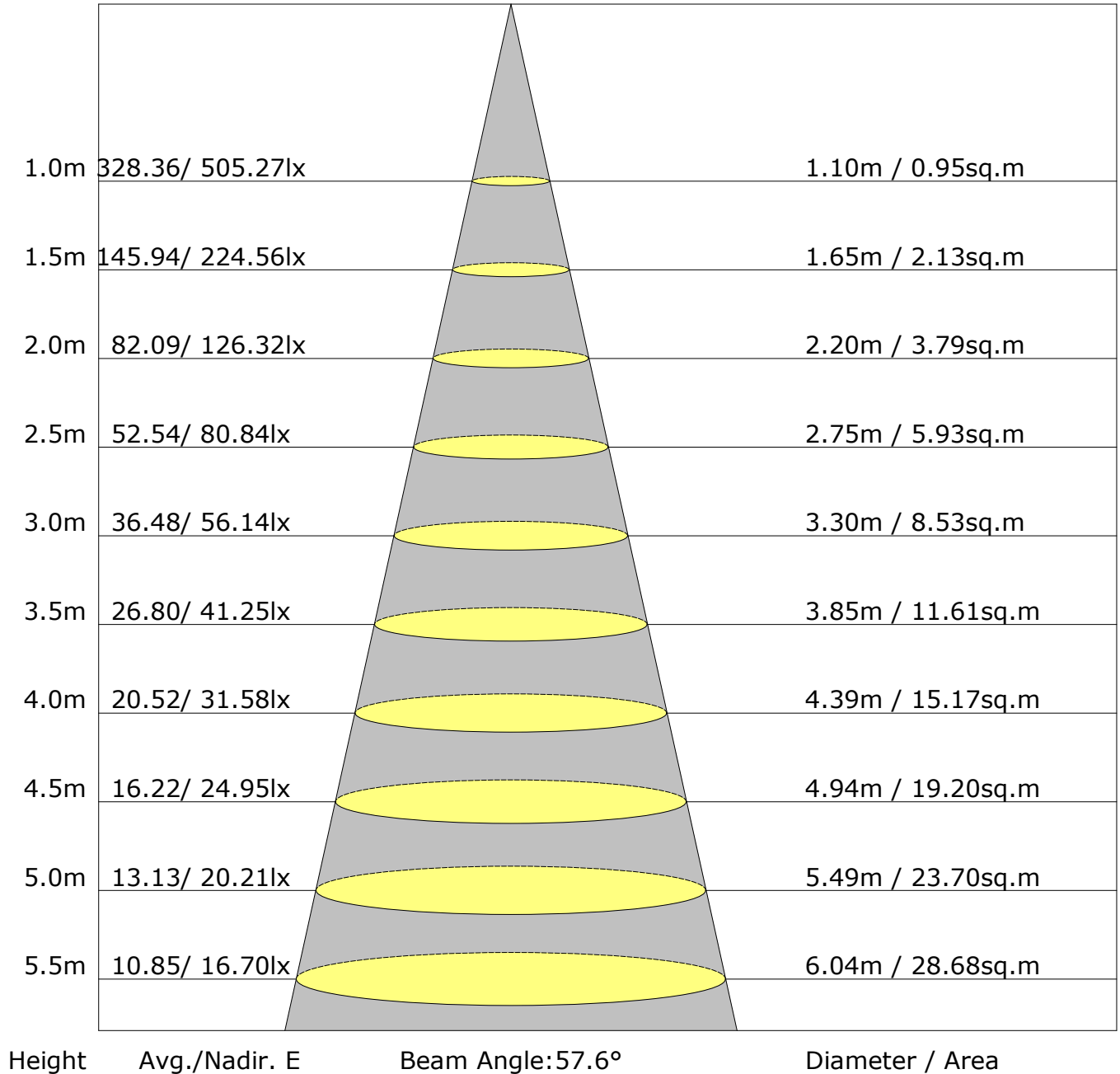
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

The Average Illuminance Effective Figure

Flux Out: 311.31lm



C Plane (°): 0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

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	22.2	23.0	22.4	23.2	23.4	22.0	22.8	22.2	23.0	23.3
3H	22.0	22.8	22.3	23.0	23.3	21.8	22.6	22.1	22.8	23.1
4H	21.9	22.7	22.3	22.9	23.2	21.8	22.5	22.1	22.7	23.0
6H	21.9	22.5	22.2	22.8	23.1	21.7	22.4	22.0	22.6	22.9
8H	21.8	22.5	22.2	22.8	23.1	21.6	22.3	22.0	22.6	22.9
12H	21.8	22.4	22.2	22.7	23.0	21.6	22.2	22.0	22.5	22.9
X=4H Y=2H	22.0	22.7	22.3	22.9	23.2	21.8	22.5	22.1	22.8	23.0
3H	21.8	22.4	22.2	22.7	23.1	21.6	22.2	22.0	22.5	22.9
4H	21.7	22.3	22.1	22.6	23.0	21.5	22.1	21.9	22.4	22.8
6H	21.6	22.1	22.1	22.5	22.9	21.4	21.9	21.9	22.3	22.7
8H	21.6	22.0	22.0	22.4	22.8	21.4	21.8	21.8	22.2	22.6
12H	21.6	21.9	22.0	22.4	22.8	21.4	21.8	21.8	22.2	22.6
X=8H Y=4H	21.6	22.0	22.0	22.4	22.8	21.4	21.8	21.8	22.2	22.6
6H	21.5	21.9	22.0	22.3	22.7	21.3	21.7	21.8	22.1	22.6
8H	21.5	21.8	21.9	22.2	22.7	21.3	21.6	21.7	22.0	22.5
12H	21.4	21.7	21.9	22.2	22.7	21.2	21.5	21.7	22.0	22.5
X=12H Y=4H	21.6	21.9	22.0	22.4	22.8	21.4	21.8	21.8	22.2	22.6
6H	21.5	21.8	21.9	22.2	22.7	21.3	21.6	21.7	22.0	22.5
8H	21.4	21.7	21.9	22.2	22.7	21.2	21.5	21.7	22.0	22.5
Variations with the observer position at spacings:										
S=1.0H	+4.5/-13.1					+4.4/-13.5				
S=1.5H	+7.3/-16.8					+7.2/-17.1				
S=2.0H	+9.3/-25.7					+9.2/-25.8				

Calculate in accordance with CIE Pub.117. The table is revised with 458lm ($8\log(F/F_0) = -2.7$).

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	241	52.6
	FL (0°-30°)	174	38.0
	FM (30°-60°)	66	14.5
	FH (60°-80°)	1	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	217	47.4
	BL (0°-30°)	154	33.6
	BM (30°-60°)	63	13.8
	BH (60°-80°)	0	0.1
	BVH (80°-90°)	0	0.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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	505.2	0.5	0.5	0.11	0.11
1.0-2.0	504.6	1.4	1.9	0.32	0.42
2.0-3.0	503.1	2.4	4.3	0.53	0.95
3.0-4.0	500.6	3.4	7.7	0.73	1.68
4.0-5.0	497.1	4.3	12.0	0.93	2.61
5.0-6.0	492.7	5.2	17.1	1.13	3.74
6.0-7.0	487.9	6.1	23.2	1.32	5.06
7.0-8.0	483.2	6.9	30.1	1.51	6.57
8.0-9.0	478.7	7.8	37.9	1.69	8.26
9.0-10.0	474.3	8.6	46.5	1.87	10.14
10.0-11.0	470.0	9.4	55.9	2.05	12.19
11.0-12.0	465.8	10.2	66.0	2.22	14.41
12.0-13.0	461.8	11.0	77.0	2.39	16.80
13.0-14.0	457.9	11.7	88.7	2.56	19.36
14.0-15.0	453.9	12.5	101.2	2.72	22.08
15.0-16.0	449.5	13.2	114.4	2.87	24.95
16.0-17.0	444.6	13.8	128.2	3.02	27.97
17.0-18.0	438.6	14.5	142.7	3.16	31.13
18.0-19.0	431.4	15.0	157.7	3.27	34.40
19.0-20.0	422.8	15.5	173.2	3.38	37.78
20.0-21.0	412.4	15.8	189.0	3.46	41.24
21.0-22.0	400.4	16.1	205.1	3.51	44.75
22.0-23.0	386.8	16.2	221.3	3.54	48.29
23.0-24.0	371.4	16.2	237.6	3.54	51.83
24.0-25.0	354.6	16.1	253.7	3.52	55.35
25.0-26.0	336.3	15.9	269.6	3.46	58.81
26.0-27.0	316.4	15.5	285.0	3.38	62.19
27.0-28.0	295.7	15.0	300.0	3.27	65.46
28.0-29.0	274.6	14.4	314.4	3.13	68.59
29.0-30.0	253.2	13.7	328.1	2.98	71.58
30.0-31.0	232.4	12.9	341.0	2.82	74.40
31.0-32.0	212.2	12.2	353.2	2.65	77.05
32.0-33.0	192.7	11.4	364.5	2.48	79.53
33.0-34.0	174.4	10.6	375.1	2.30	81.83
34.0-35.0	157.1	9.8	384.8	2.13	83.96
35.0-36.0	140.8	9.0	393.8	1.96	85.92

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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	125.7	8.2	402.0	1.79	87.71
37.0-38.0	111.8	7.5	409.4	1.63	89.34
38.0-39.0	98.9	6.7	416.2	1.47	90.81
39.0-40.0	87.0	6.1	422.3	1.32	92.13
40.0-41.0	76.1	5.4	427.7	1.18	93.31
41.0-42.0	66.3	4.8	432.5	1.05	94.37
42.0-43.0	57.7	4.3	436.8	0.93	95.30
43.0-44.0	49.8	3.8	440.5	0.82	96.12
44.0-45.0	42.5	3.3	443.8	0.71	96.83
45.0-46.0	35.8	2.8	446.6	0.61	97.44
46.0-47.0	29.5	2.3	449.0	0.51	97.95
47.0-48.0	23.1	1.9	450.8	0.41	98.36
48.0-49.0	17.2	1.4	452.2	0.31	98.67
49.0-50.0	12.7	1.1	453.3	0.23	98.90
50.0-51.0	9.7	0.8	454.1	0.18	99.08
51.0-52.0	7.7	0.7	454.8	0.14	99.22
52.0-53.0	6.2	0.5	455.3	0.12	99.34
53.0-54.0	5.1	0.5	455.8	0.10	99.44
54.0-55.0	4.3	0.4	456.1	0.08	99.52
55.0-56.0	3.5	0.3	456.5	0.07	99.59
56.0-57.0	2.9	0.3	456.7	0.06	99.65
57.0-58.0	2.5	0.2	457.0	0.05	99.70
58.0-59.0	2.2	0.2	457.2	0.04	99.75
59.0-60.0	2.1	0.2	457.4	0.04	99.79
60.0-61.0	2.0	0.2	457.6	0.04	99.83
61.0-62.0	1.8	0.2	457.7	0.04	99.87
62.0-63.0	1.5	0.1	457.9	0.03	99.90
63.0-64.0	1.2	0.1	458.0	0.03	99.93
64.0-65.0	0.9	0.1	458.1	0.02	99.95
65.0-66.0	0.6	0.1	458.2	0.01	99.96
66.0-67.0	0.6	0.1	458.2	0.01	99.97
67.0-68.0	0.5	0.0	458.3	0.01	99.98
68.0-69.0	0.3	0.0	458.3	0.01	99.99
69.0-70.0	0.1	0.0	458.3	0.00	99.99
70.0-71.0	0.1	0.0	458.3	0.00	100.00
71.0-72.0	0.0	0.0	458.3	0.00	100.00

C Plane (°):0.0-180.0: 180.0
Test Lab:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	505.3	505.3								
G1.0	511.0	499.3								
G2.0	515.3	492.8								
G3.0	518.6	485.7								
G4.0	521.1	477.0								
G5.0	523.5	466.8								
G6.0	525.0	455.6								
G7.0	526.5	444.4								
G8.0	527.5	434.4								
G9.0	527.9	424.9								
G10.0	527.9	416.5								
G11.0	527.7	408.1								
G12.0	526.8	400.8								
G13.0	525.4	394.4								
G14.0	523.5	388.4								
G15.0	520.5	383.2								
G16.0	516.2	378.3								
G17.0	510.3	373.5								
G18.0	502.3	368.2								
G19.0	492.3	362.6								
G20.0	480.1	356.0								
G21.0	465.4	348.2								
G22.0	448.8	339.3								
G23.0	430.0	329.1								
G24.0	409.5	317.2								
G25.0	387.1	304.7								
G26.0	362.6	290.7								
G27.0	338.0	274.4								
G28.0	313.4	257.0								
G29.0	288.2	239.6								
G30.0	263.0	222.1								
G31.0	239.3	205.2								
G32.0	216.1	188.2								
G33.0	194.3	172.4								
G34.0	174.1	156.9								
G35.0	155.5	141.9								
G36.0	138.2	127.5								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
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Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	122.8	114.1								
G38.0	108.5	101.7								
G39.0	95.1	90.2								
G40.0	82.9	79.7								
G41.0	71.9	69.8								
G42.0	62.8	60.8								
G43.0	54.5	52.6								
G44.0	47.4	44.8								
G45.0	40.6	37.3								
G46.0	34.1	31.2								
G47.0	27.3	25.6								
G48.0	20.3	19.4								
G49.0	14.8	14.1								
G50.0	11.5	10.2								
G51.0	9.1	8.0								
G52.0	7.6	6.2								
G53.0	6.2	5.0								
G54.0	5.3	4.1								
G55.0	4.5	3.4								
G56.0	3.6	2.7								
G57.0	3.2	2.2								
G58.0	2.7	1.8								
G59.0	2.8	1.5								
G60.0	2.5	1.5								
G61.0	2.5	1.3								
G62.0	2.1	1.3								
G63.0	1.5	1.1								
G64.0	1.3	1.0								
G65.0	0.7	0.7								
G66.0	0.7	0.4								
G67.0	0.7	0.4								
G68.0	0.4	0.4								
G69.0	0.1	0.1								
G70.0	0.1	0.1								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.1	0.0								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: