

Report No.:

Test Time: 2025-08-26 21:03

Luminaire Property

Luminaire Manufacturer:

Lamp Description: V10A F90 930

Luminous Width (mm): -55

Current: 0.091 A

Power Factor: 0.944

Luminous Length (mm): -55

Voltage: 230.9 V

Power: 19.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1958.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H36.9

Vertical Diffuse Angle(50%): V36.9

Luminaire Efficacy Rating (LER): 98.95

Max. Intensity: 5122.9 cd

S/MH(C0/C180): 0.62

Total Rated Lamp Lumens: 1958.1 lm

Efficiency: 100%

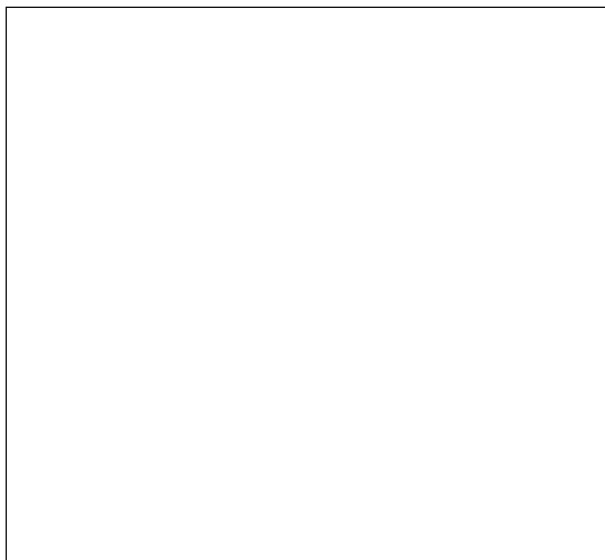
Upward Ratio: 0%

Central Intensity: 5108.86 cd

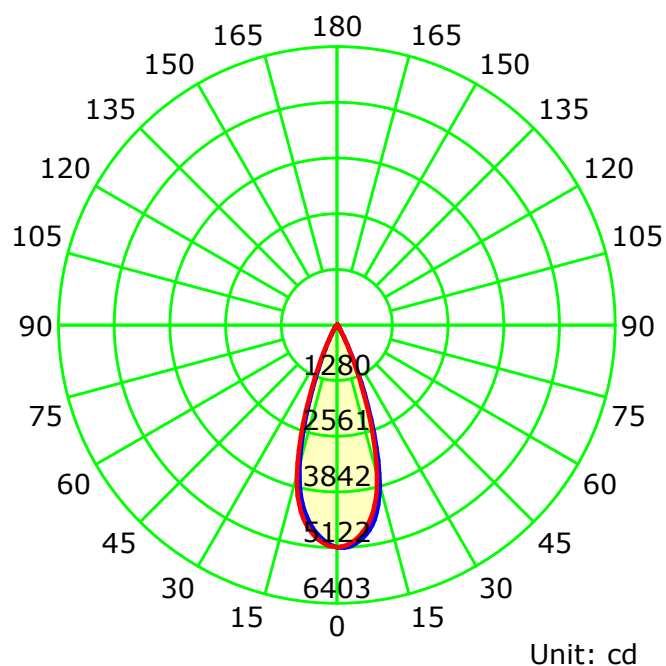
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.62

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

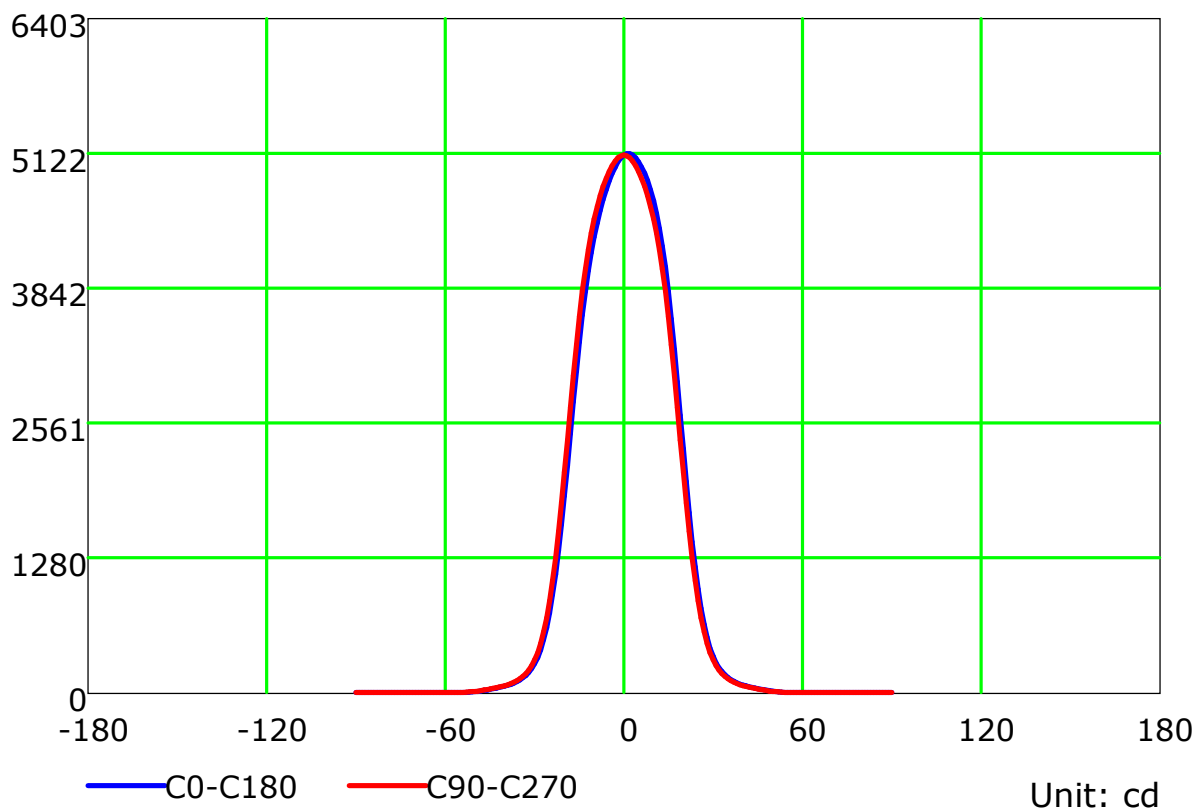
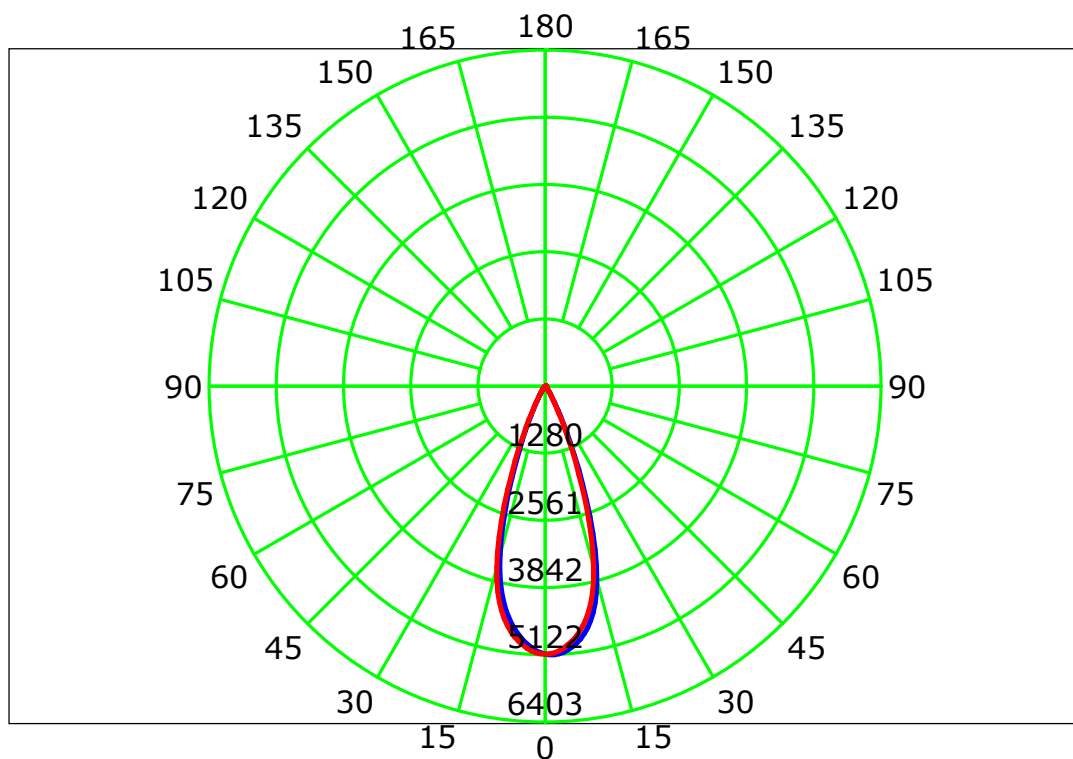
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

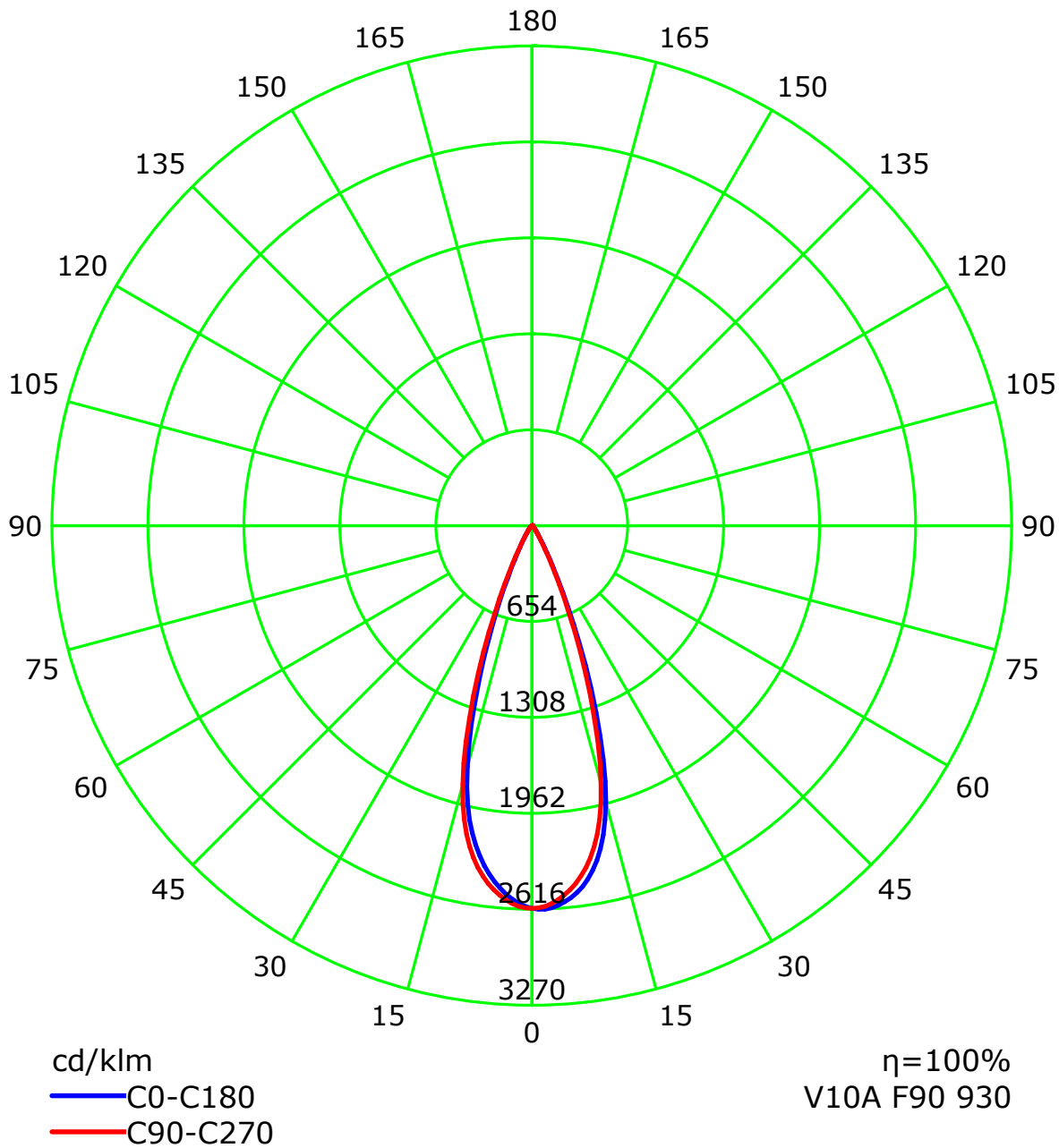
Luminous Intensity Distribution Curve



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:

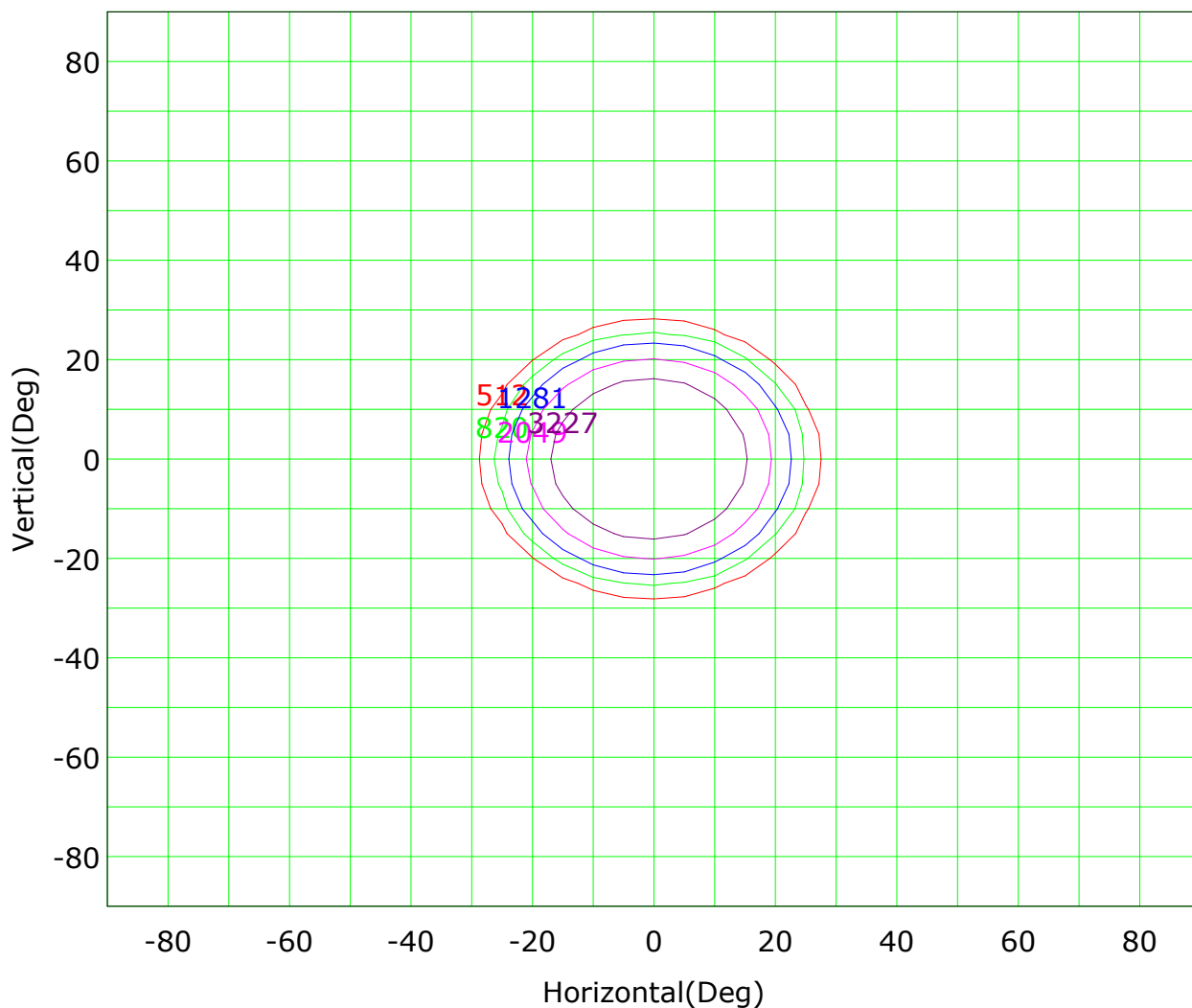
Luminous Intensity Distribution Curve(cd/klm)



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)



I_{max} (100%): 5123 cd

(10%): 512 cd	(16%): 820 cd
(25%): 1281 cd	(40%): 2049 cd
(63%): 3227 cd	(100%): 5123 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

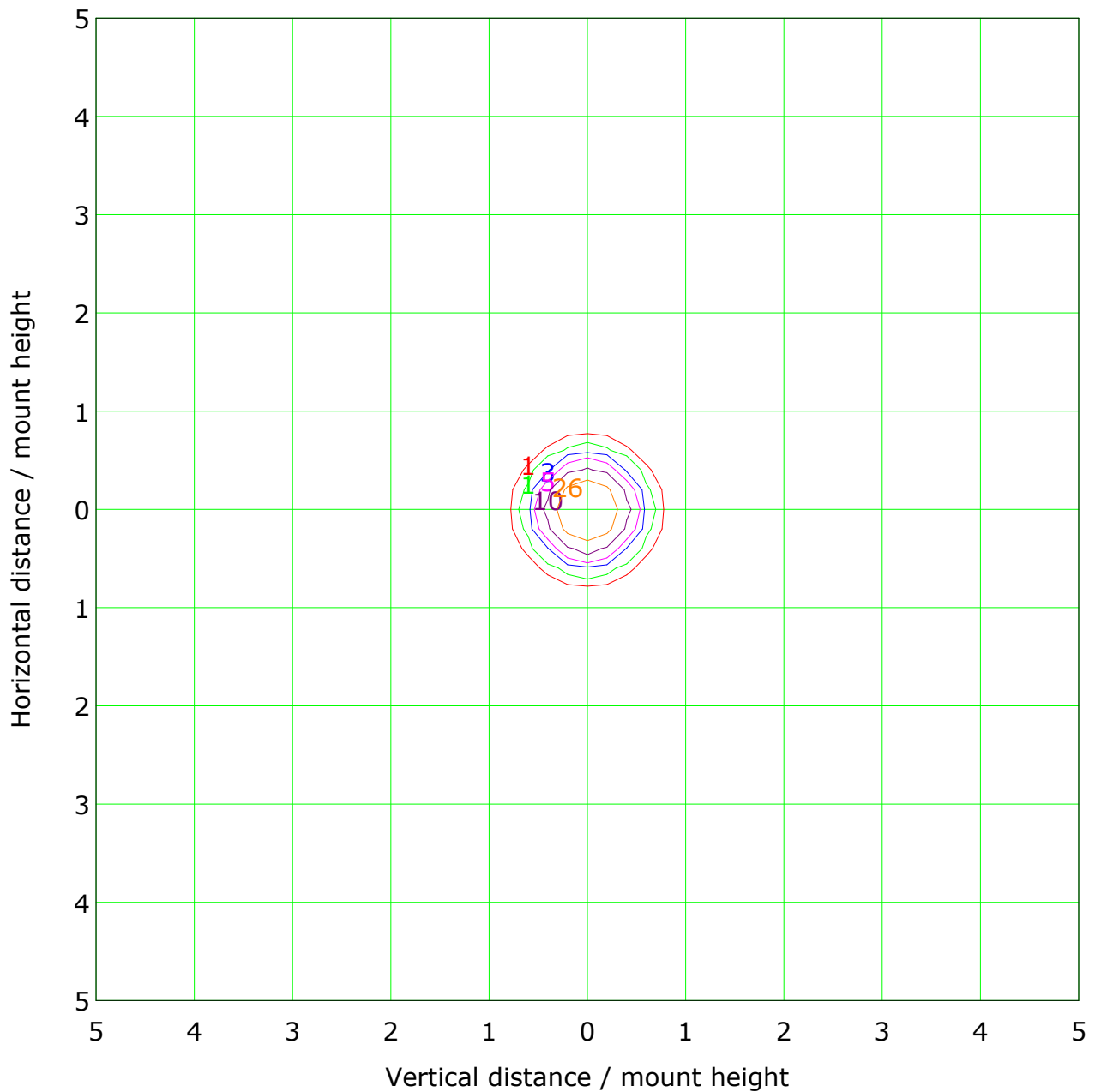
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



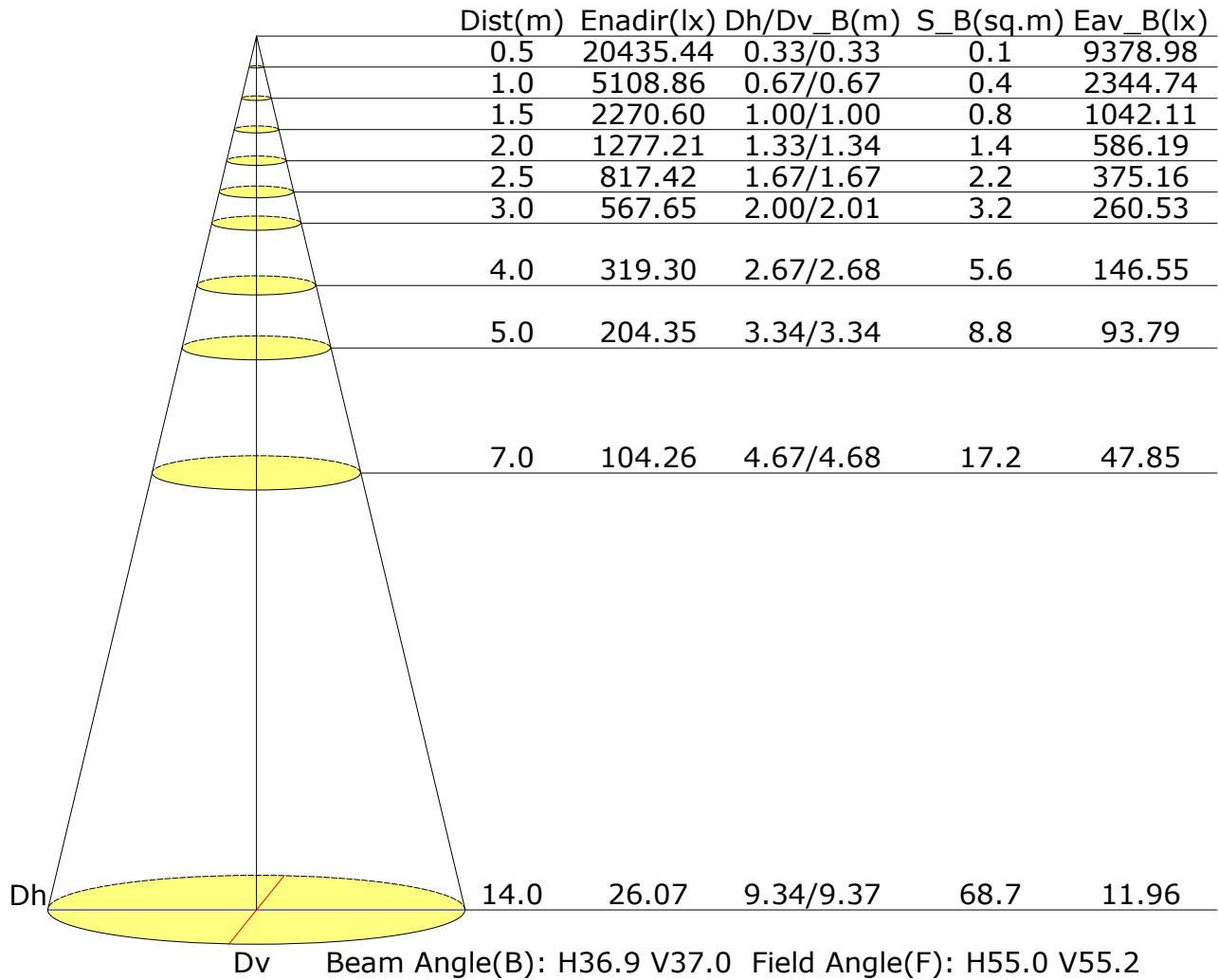
Mounting Height: 10.0m Max Lux(100%): 51.2 lx

(1%): 0.5 lx	(2%): 1.0 lx
(5%): 2.6 lx	(10%): 5.1 lx
(20%): 10.2 lx	(50%): 25.6 lx
(100%): 51.2 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:

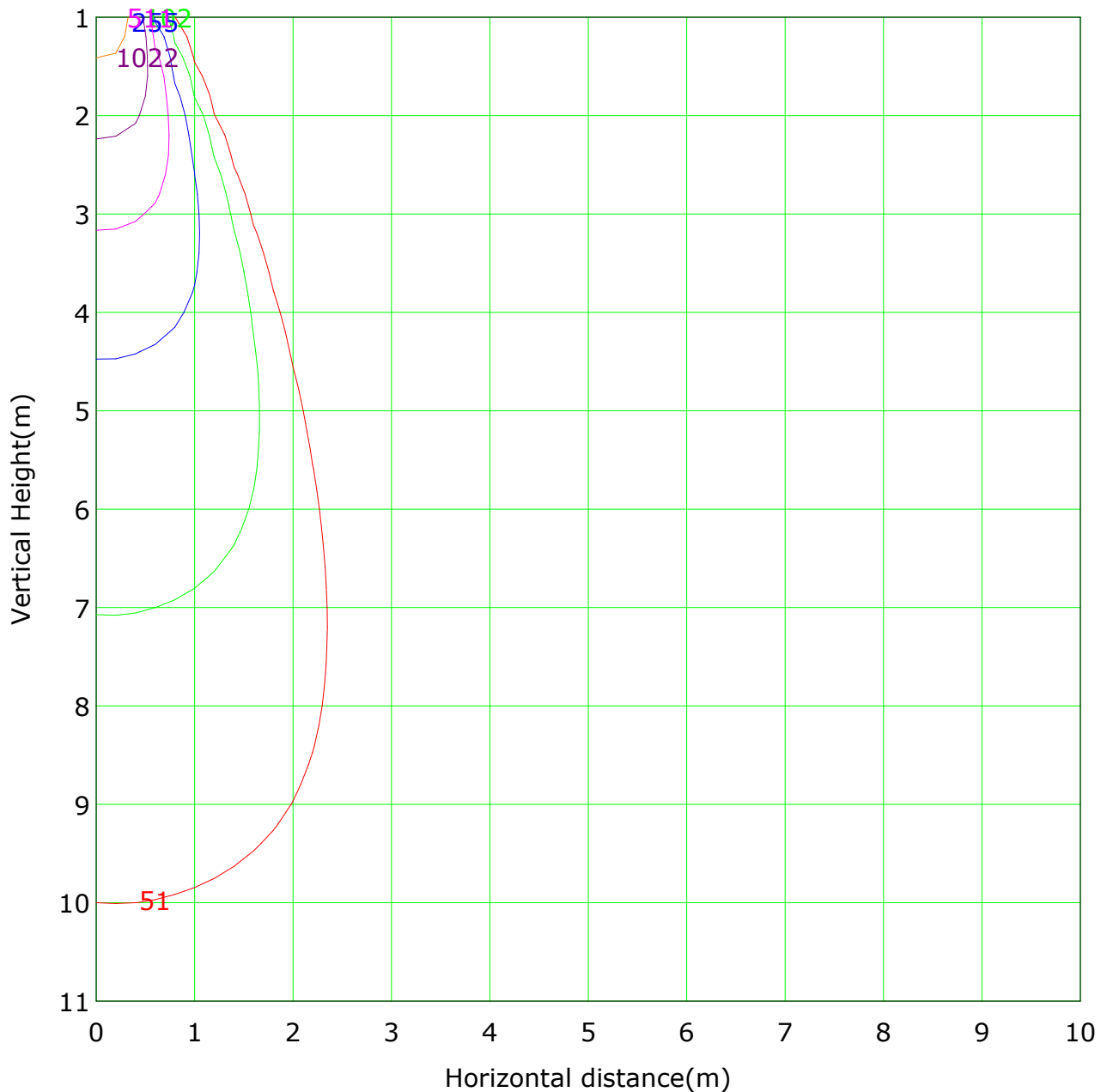
Illuminance at a Distance



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:

Vertical IsoLux Plot



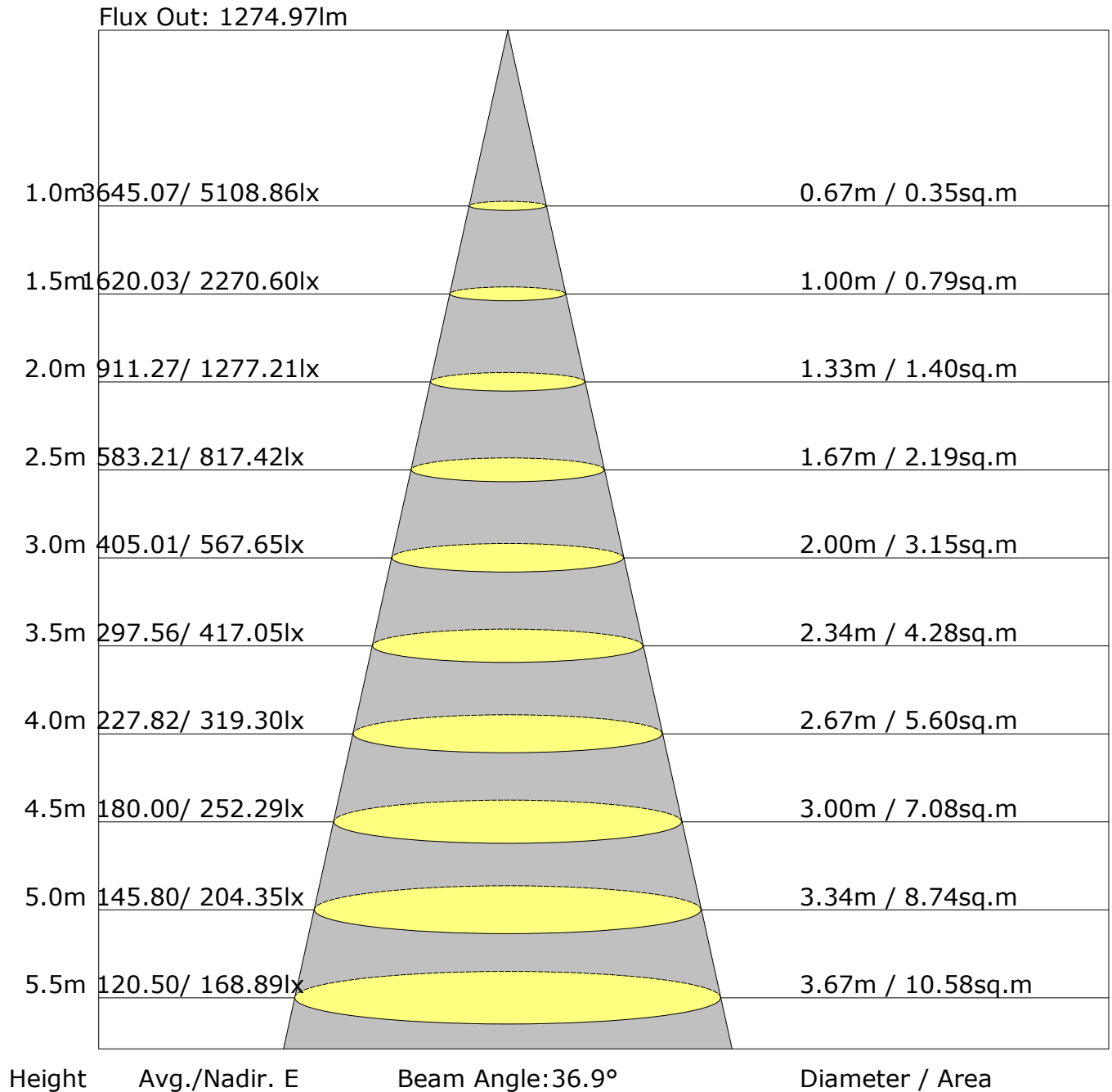
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5108.9 lx
— (1%): 51.1 lx — (2%): 102.2 lx
— (5%): 255.4 lx — (10%): 510.9 lx
— (20%): 1021.8 lx — (50%): 2554.4 lx
— (100%): 5108.9 lx

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



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	13.9	14.5	14.1	14.7	14.9	13.5	14.2	13.7	14.3	14.5
3H	13.7	14.4	14.0	14.6	14.8	13.4	14.0	13.6	14.2	14.4
4H	13.7	14.2	14.0	14.5	14.8	13.3	13.8	13.6	14.1	14.4
6H	13.6	14.1	13.9	14.4	14.7	13.2	13.7	13.5	14.0	14.3
8H	13.6	14.1	13.9	14.4	14.7	13.2	13.7	13.5	14.0	14.3
12H	13.5	14.0	13.9	14.3	14.6	13.1	13.6	13.5	13.9	14.2
X=4H Y=2H	13.7	14.2	14.0	14.5	14.8	13.3	13.8	13.6	14.1	14.4
3H	13.5	14.0	13.9	14.3	14.6	13.1	13.6	13.5	13.9	14.2
4H	13.4	13.9	13.8	14.2	14.6	13.0	13.5	13.4	13.8	14.2
6H	13.4	13.7	13.8	14.1	14.5	13.0	13.3	13.4	13.7	14.1
8H	13.3	13.7	13.7	14.0	14.4	12.9	13.3	13.3	13.6	14.1
12H	13.3	13.6	13.7	14.0	14.4	12.9	13.2	13.3	13.6	14.0
X=8H Y=4H	13.3	13.7	13.7	14.0	14.4	12.9	13.3	13.3	13.6	14.1
6H	13.2	13.5	13.7	13.9	14.4	12.8	13.1	13.3	13.5	14.0
8H	13.2	13.4	13.6	13.9	14.3	12.8	13.0	13.2	13.5	13.9
12H	13.1	13.3	13.6	13.8	14.3	12.7	12.9	13.2	13.4	13.9
X=12H Y=4H	13.3	13.6	13.7	14.0	14.4	12.9	13.2	13.3	13.6	14.0
6H	13.2	13.4	13.6	13.9	14.3	12.8	13.0	13.2	13.5	13.9
8H	13.1	13.3	13.6	13.8	14.3	12.7	12.9	13.2	13.4	13.9
Variations with the observer position at spacings:										
S=1.0H	+5.1/-38.6					+5.0/-41.3				
S=1.5H	+7.9/-1.\$					+7.8/-1.\$				
S=2.0H	+9.9/-1.\$					+9.8/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 1958lm ($8\log(F/F_0) = 2.3$).

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	1014	51.8
	FL (0°-30°)	950	48.5
	FM (30°-60°)	64	3.2
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	944	48.2
	BL (0°-30°)	887	45.3
	BM (30°-60°)	58	2.9
	BH (60°-80°)	0	0.0
	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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	5105.0	4.9	4.9	0.25	0.25
1.0-2.0	5093.1	14.6	19.5	0.75	1.00
2.0-3.0	5068.5	24.2	43.7	1.24	2.23
3.0-4.0	5029.5	33.7	77.4	1.72	3.95
4.0-5.0	4979.3	42.8	120.3	2.19	6.14
5.0-6.0	4920.0	51.7	172.0	2.64	8.78
6.0-7.0	4849.8	60.2	232.2	3.07	11.86
7.0-8.0	4767.6	68.2	300.4	3.49	15.34
8.0-9.0	4672.1	75.7	376.1	3.87	19.21
9.0-10.0	4560.8	82.5	458.7	4.22	23.43
10.0-11.0	4434.1	88.6	547.3	4.53	27.95
11.0-12.0	4288.4	93.8	641.1	4.79	32.74
12.0-13.0	4118.5	97.8	738.8	4.99	37.73
13.0-14.0	3921.2	100.4	839.2	5.13	42.86
14.0-15.0	3694.0	101.4	940.6	5.18	48.04
15.0-16.0	3438.4	100.8	1041.4	5.15	53.18
16.0-17.0	3157.9	98.4	1139.7	5.02	58.21
17.0-18.0	2859.5	94.3	1234.0	4.82	63.02
18.0-19.0	2552.7	88.8	1322.9	4.54	67.56
19.0-20.0	2245.5	82.2	1405.1	4.20	71.75
20.0-21.0	1948.1	74.8	1479.9	3.82	75.58
21.0-22.0	1667.3	67.0	1546.9	3.42	79.00
22.0-23.0	1406.4	59.0	1605.9	3.01	82.01
23.0-24.0	1172.2	51.3	1657.2	2.62	84.63
24.0-25.0	967.2	44.0	1701.1	2.25	86.88
25.0-26.0	791.0	37.3	1738.5	1.91	88.78
26.0-27.0	642.8	31.5	1769.9	1.61	90.39
27.0-28.0	520.3	26.3	1796.3	1.35	91.73
28.0-29.0	421.6	22.1	1818.4	1.13	92.86
29.0-30.0	344.4	18.6	1836.9	0.95	93.81
30.0-31.0	283.7	15.8	1852.7	0.81	94.62
31.0-32.0	235.2	13.5	1866.2	0.69	95.31
32.0-33.0	198.0	11.7	1877.9	0.60	95.90
33.0-34.0	168.2	10.2	1888.1	0.52	96.42
34.0-35.0	142.9	8.9	1896.9	0.45	96.87
35.0-36.0	122.5	7.8	1904.7	0.40	97.27

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	106.4	6.9	1911.7	0.35	97.63
37.0-38.0	92.7	6.2	1917.9	0.32	97.94
38.0-39.0	80.8	5.5	1923.4	0.28	98.22
39.0-40.0	70.9	4.9	1928.3	0.25	98.48
40.0-41.0	63.5	4.5	1932.8	0.23	98.71
41.0-42.0	56.5	4.1	1937.0	0.21	98.92
42.0-43.0	49.5	3.7	1940.6	0.19	99.11
43.0-44.0	43.9	3.3	1943.9	0.17	99.27
44.0-45.0	37.9	2.9	1946.8	0.15	99.42
45.0-46.0	31.2	2.4	1949.3	0.12	99.55
46.0-47.0	26.7	2.1	1951.4	0.11	99.66
47.0-48.0	22.5	1.8	1953.2	0.09	99.75
48.0-49.0	17.2	1.4	1954.6	0.07	99.82
49.0-50.0	13.3	1.1	1955.8	0.06	99.88
50.0-51.0	10.9	0.9	1956.7	0.05	99.93
51.0-52.0	8.1	0.7	1957.4	0.04	99.96
52.0-53.0	5.3	0.5	1957.8	0.02	99.98
53.0-54.0	2.8	0.2	1958.1	0.01	100.00
54.0-55.0	0.7	0.1	1958.1	0.00	100.00
55.0-56.0	0.0	0.0	1958.1	0.00	100.00
56.0-57.0	0.0	0.0	1958.1	0.00	100.00
57.0-58.0	0.0	0.0	1958.1	0.00	100.00
58.0-59.0	0.0	0.0	1958.1	0.00	100.00
59.0-60.0	0.0	0.0	1958.1	0.00	100.00
60.0-61.0	0.0	0.0	1958.1	0.00	100.00
61.0-62.0	0.0	0.0	1958.1	0.00	100.00
62.0-63.0	0.0	0.0	1958.1	0.00	100.00
63.0-64.0	0.0	0.0	1958.1	0.00	100.00
64.0-65.0	0.0	0.0	1958.1	0.00	100.00
65.0-66.0	0.0	0.0	1958.1	0.00	100.00
66.0-67.0	0.0	0.0	1958.1	0.00	100.00
67.0-68.0	0.0	0.0	1958.1	0.00	100.00
68.0-69.0	0.0	0.0	1958.1	0.00	100.00
69.0-70.0	0.0	0.0	1958.1	0.00	100.00
70.0-71.0	0.0	0.0	1958.1	0.00	100.00
71.0-72.0	0.0	0.0	1958.1	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	5108.9	5108.9								
G1.0	5120.1	5082.2								
G2.0	5122.9	5047.1								
G3.0	5108.9	4995.1								
G4.0	5080.8	4933.3								
G5.0	5041.5	4861.7								
G6.0	4995.1	4781.6								
G7.0	4934.7	4687.6								
G8.0	4864.5	4583.6								
G9.0	4777.4	4462.9								
G10.0	4673.5	4329.5								
G11.0	4552.8	4180.6								
G12.0	4409.5	4010.7								
G13.0	4241.0	3812.7								
G14.0	4043.0	3588.0								
G15.0	3812.7	3332.4								
G16.0	3551.5	3057.2								
G17.0	3260.8	2762.3								
G18.0	2953.3	2461.7								
G19.0	2637.3	2158.4								
G20.0	2317.1	1869.1								
G21.0	2006.8	1599.5								
G22.0	1711.8	1350.9								
G23.0	1435.2	1127.7								
G24.0	1193.7	932.5								
G25.0	983.0	759.7								
G26.0	801.9	619.3								
G27.0	647.4	502.7								
G28.0	523.8	407.3								
G29.0	421.3	334.2								
G30.0	345.5	276.6								
G31.0	282.3	230.3								
G32.0	235.9	192.4								
G33.0	200.8	162.9								
G34.0	168.5	140.4								
G35.0	143.2	119.4								
G36.0	123.6	103.9								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	108.1	89.9								
G38.0	94.1	78.6								
G39.0	80.1	70.2								
G40.0	71.6	61.8								
G41.0	64.6	56.2								
G42.0	56.2	49.2								
G43.0	50.5	42.1								
G44.0	44.9	37.9								
G45.0	36.5	32.3								
G46.0	32.3	23.9								
G47.0	28.1	22.5								
G48.0	22.5	16.9								
G49.0	18.3	11.2								
G50.0	14.0	9.8								
G51.0	11.2	8.4								
G52.0	7.0	5.6								
G53.0	5.6	2.8								
G54.0	2.8	0.0								
G55.0	0.0	0.0								
G56.0	0.0	0.0								
G57.0	0.0	0.0								
G58.0	0.0	0.0								
G59.0	0.0	0.0								
G60.0	0.0	0.0								
G61.0	0.0	0.0								
G62.0	0.0	0.0								
G63.0	0.0	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	0.0								
G69.0	0.0	0.0								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

