

Report No.:

Test Time: 2025-10-08 15:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 60D

Luminous Width (mm): -79

Current: 0.110 A

Power Factor: 0.907

Luminous Length (mm): -79

Voltage: 226.2 V

Power: 22.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2980.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H59.3

Vertical Diffuse Angle(50%): V59.3

Luminaire Efficacy Rating (LER): 131.36

Max. Intensity: 3578.14 cd

S/MH(C0/C180): 0.98

Total Rated Lamp Lumens: 2980.8 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3422.07 cd

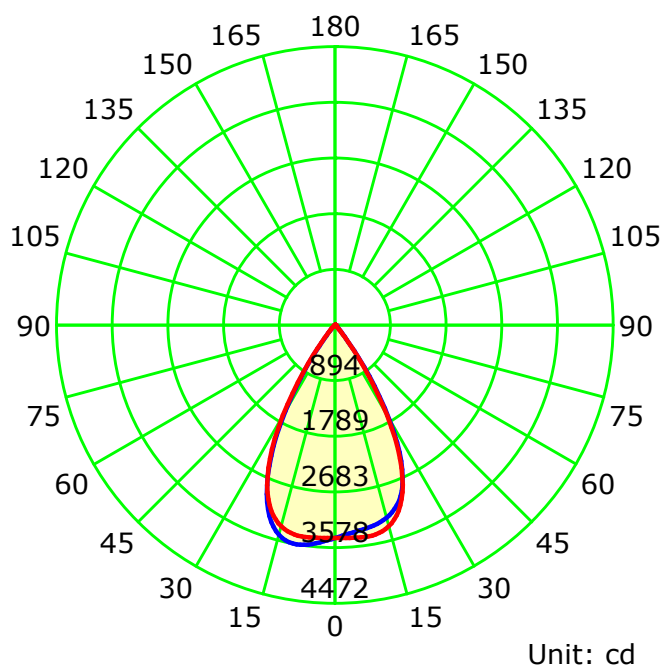
Pos of Max. Intensity: H180 V10

S/MH(C90/C270): 0.98

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

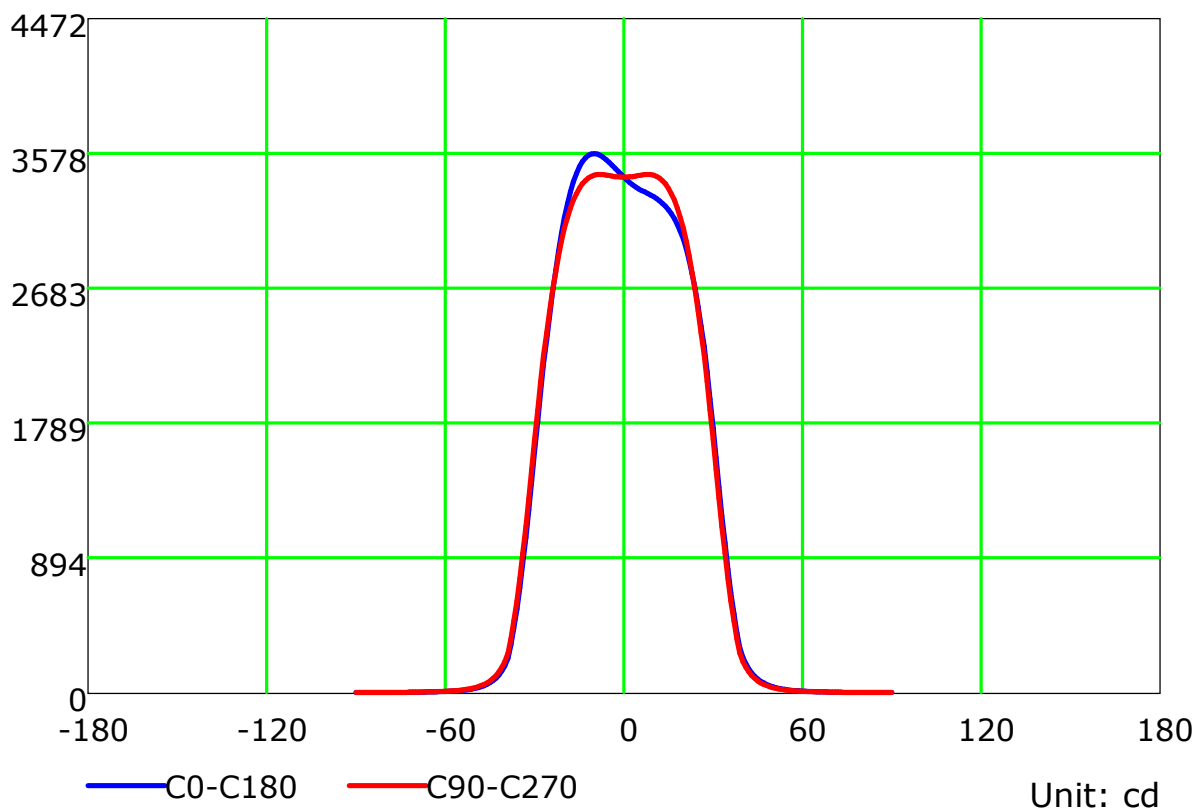
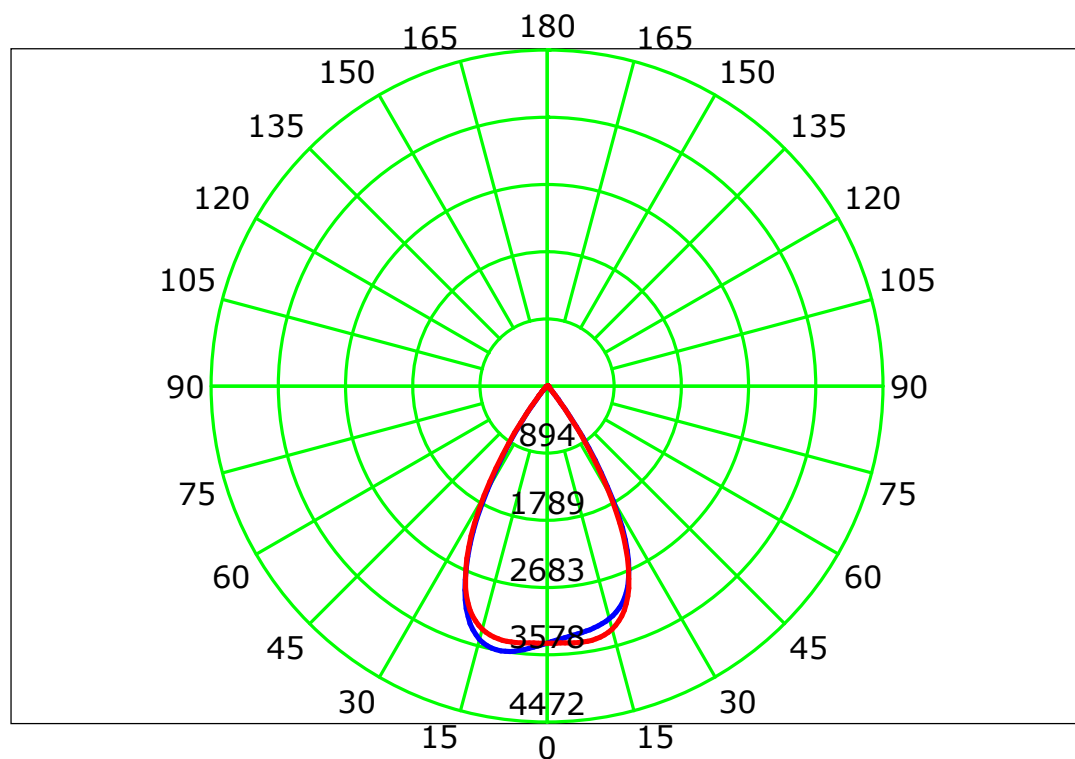
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

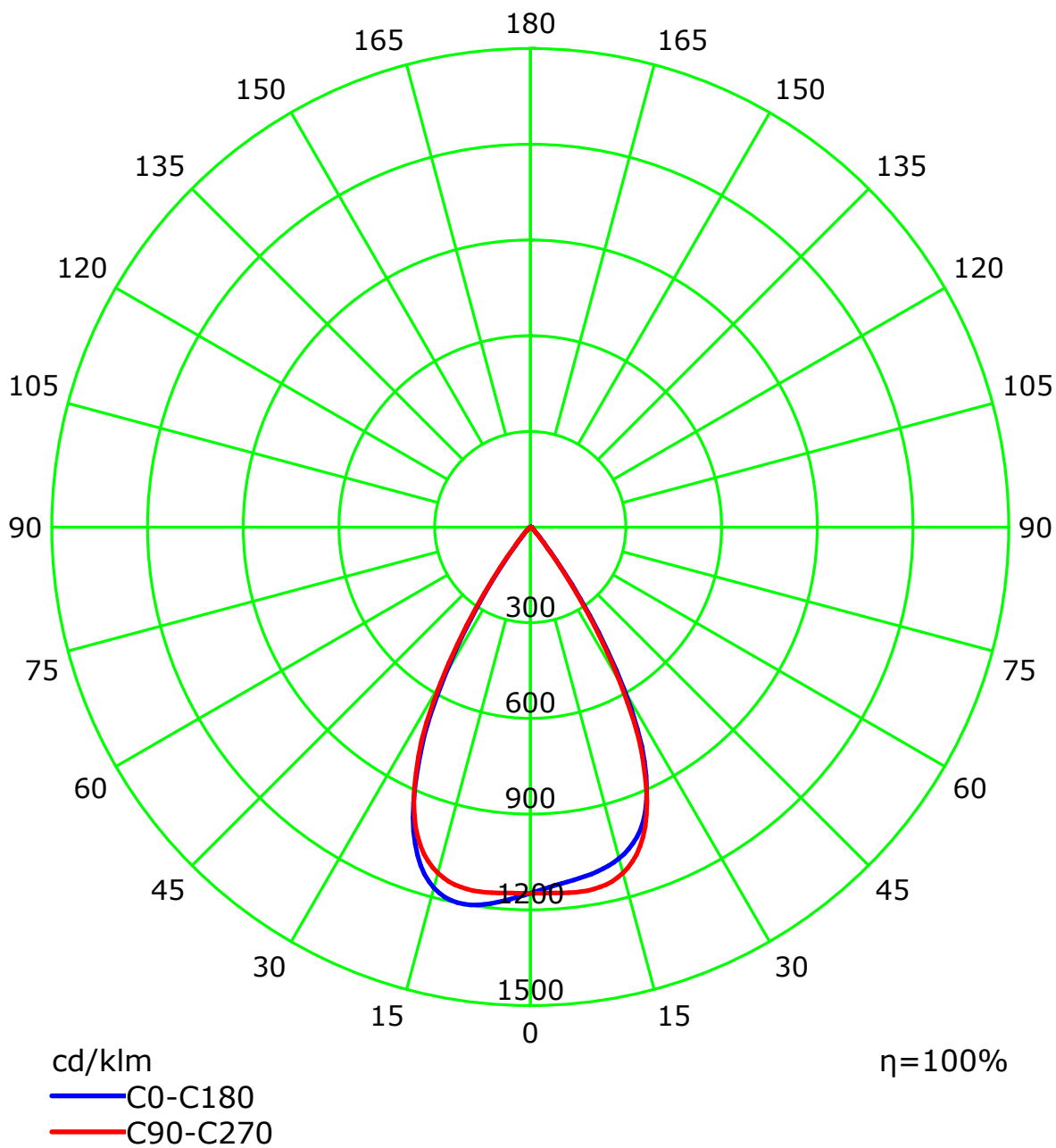
Luminous Intensity Distribution Curve



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:

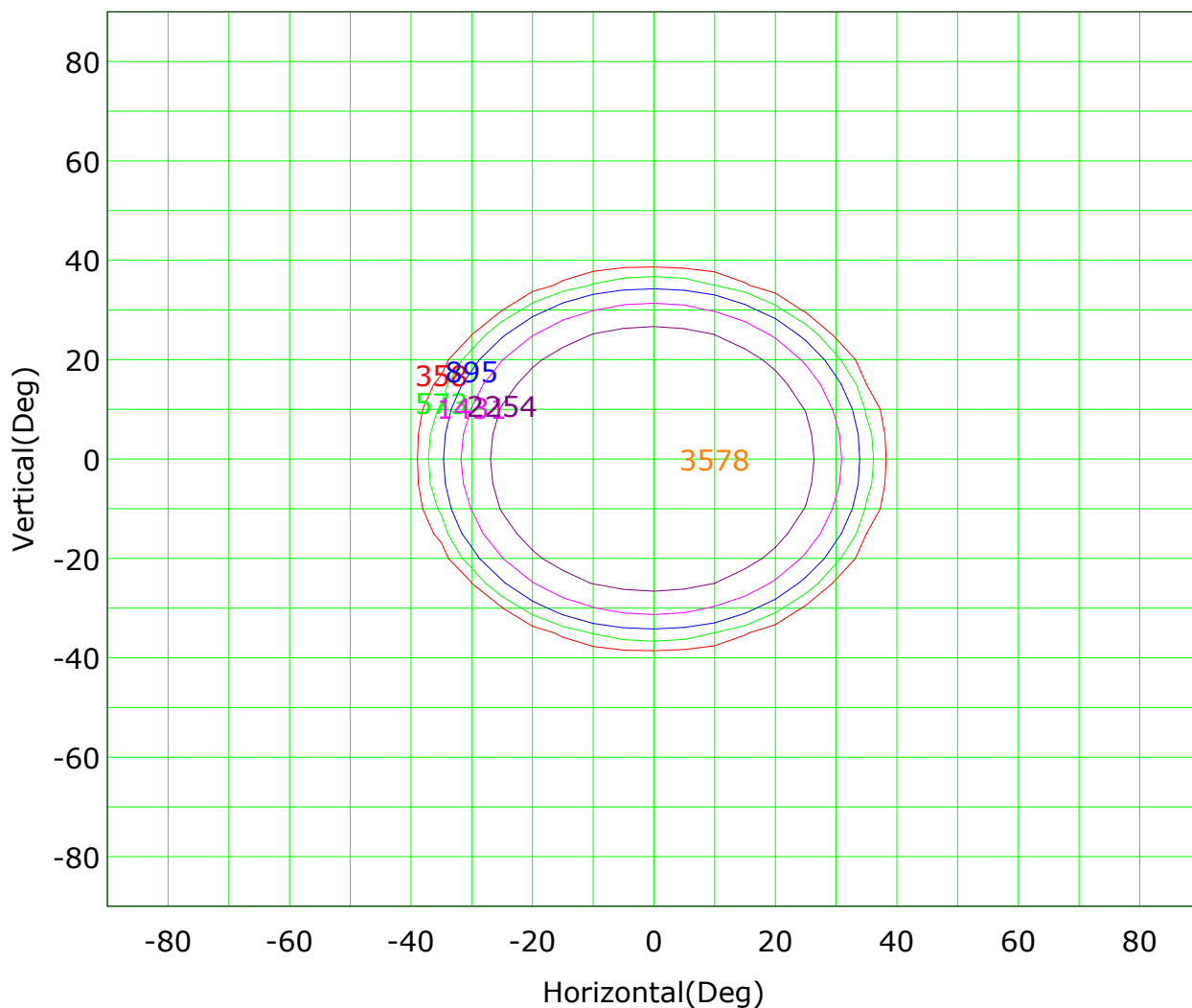
Luminous Intensity Distribution Curve(cd/klm)



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)



Imax (100%): 3578 cd

— (10%): 358 cd	— (16%): 573 cd
— (25%): 895 cd	— (40%): 1431 cd
— (63%): 2254 cd	— (100%): 3578 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

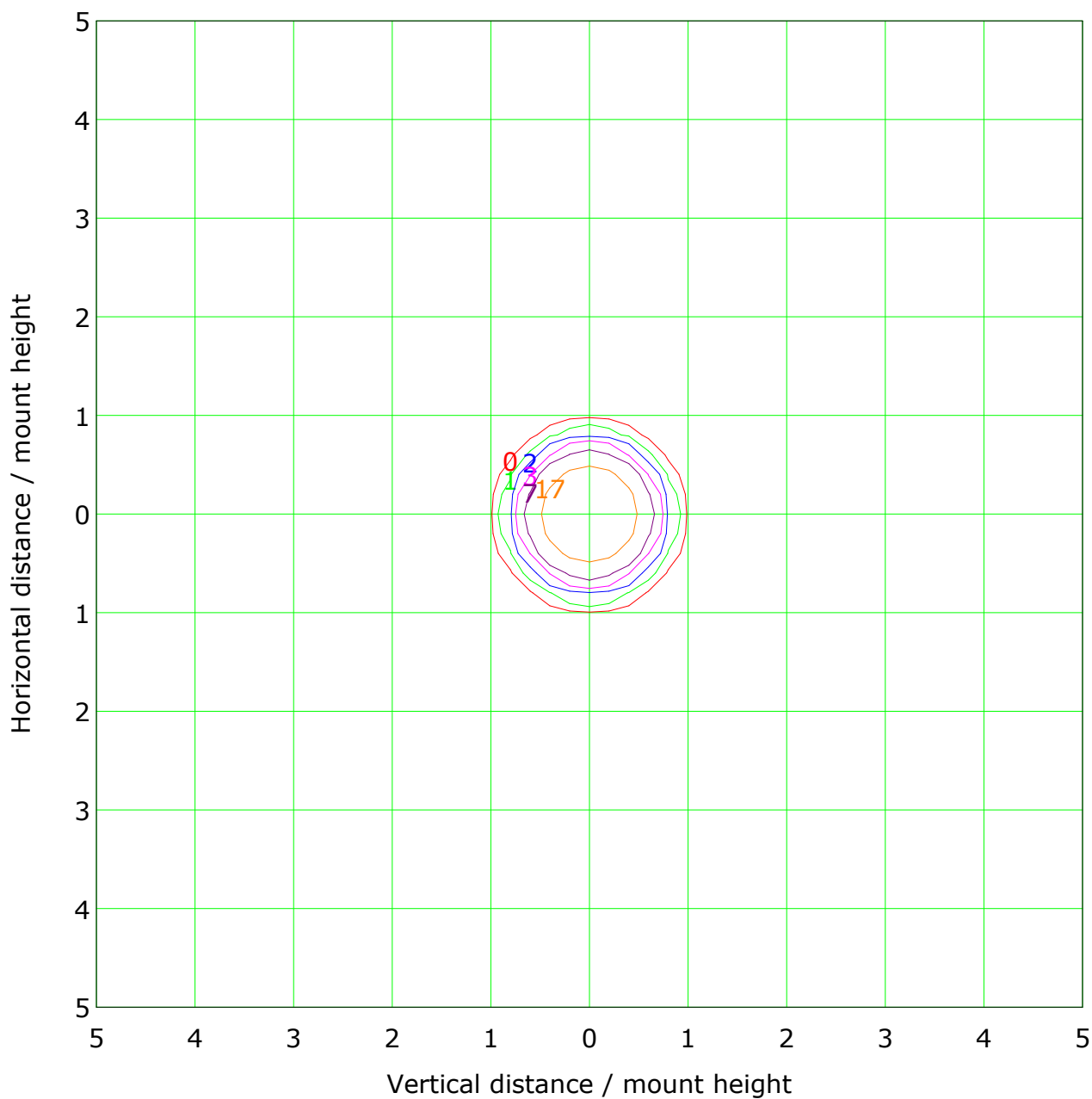
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



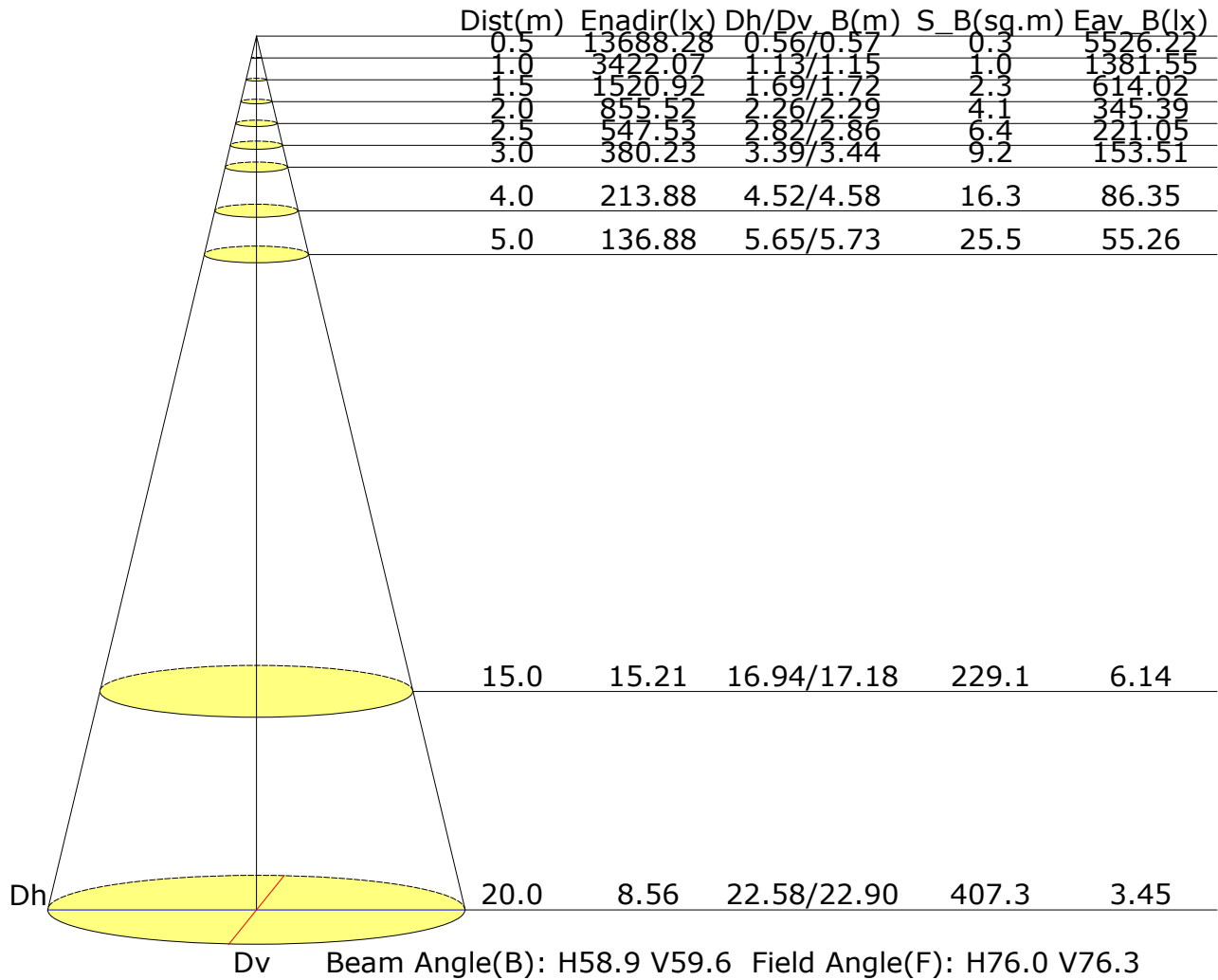
Mounting Height: 10.0m Max Lux(100%): 34.8 lx

(1%): 0.3 lx	(2%): 0.7 lx
(5%): 1.7 lx	(10%): 3.5 lx
(20%): 7.0 lx	(50%): 17.4 lx
(100%): 34.8 lx	

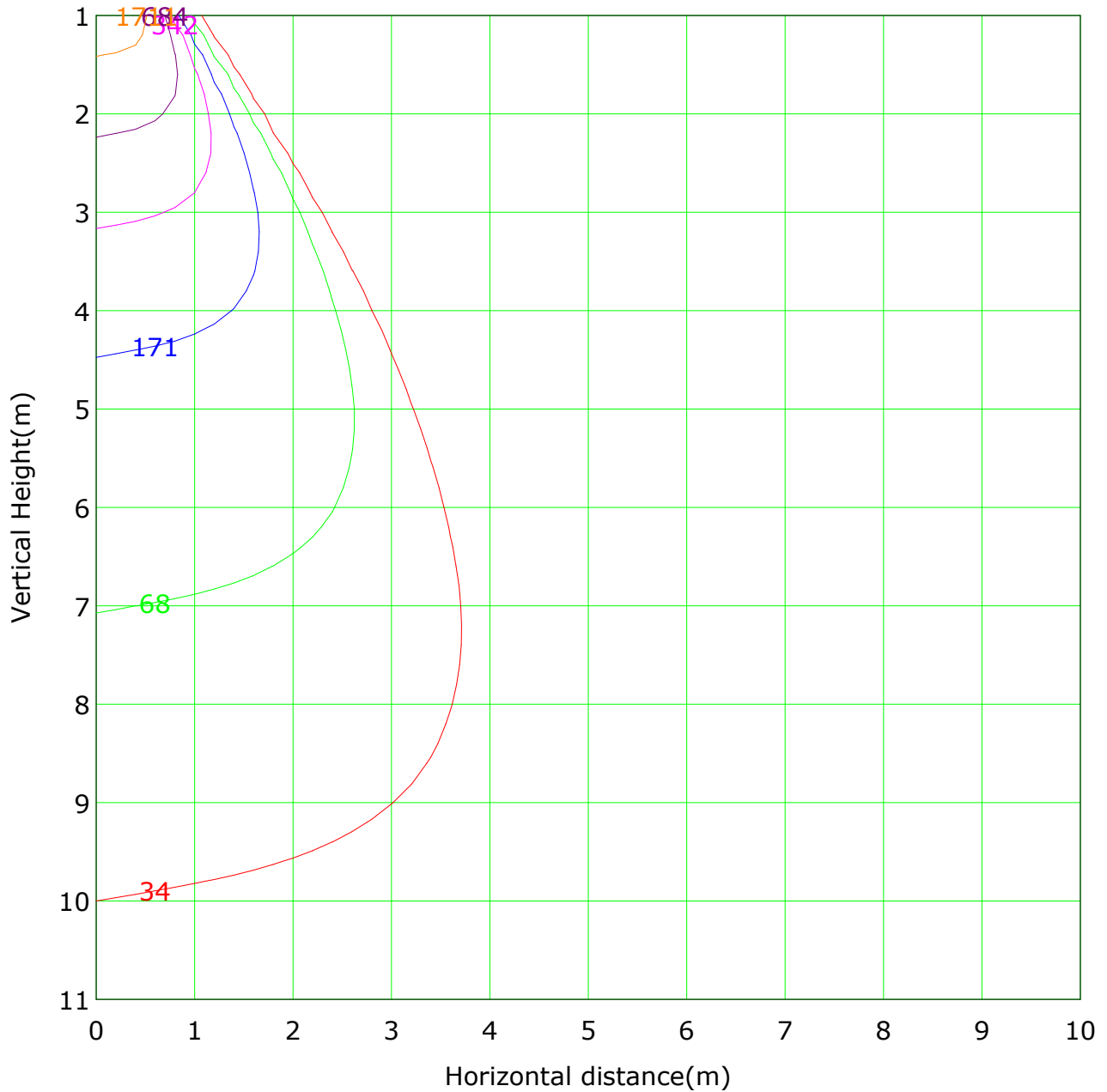
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



Vertical IsoLux Plot



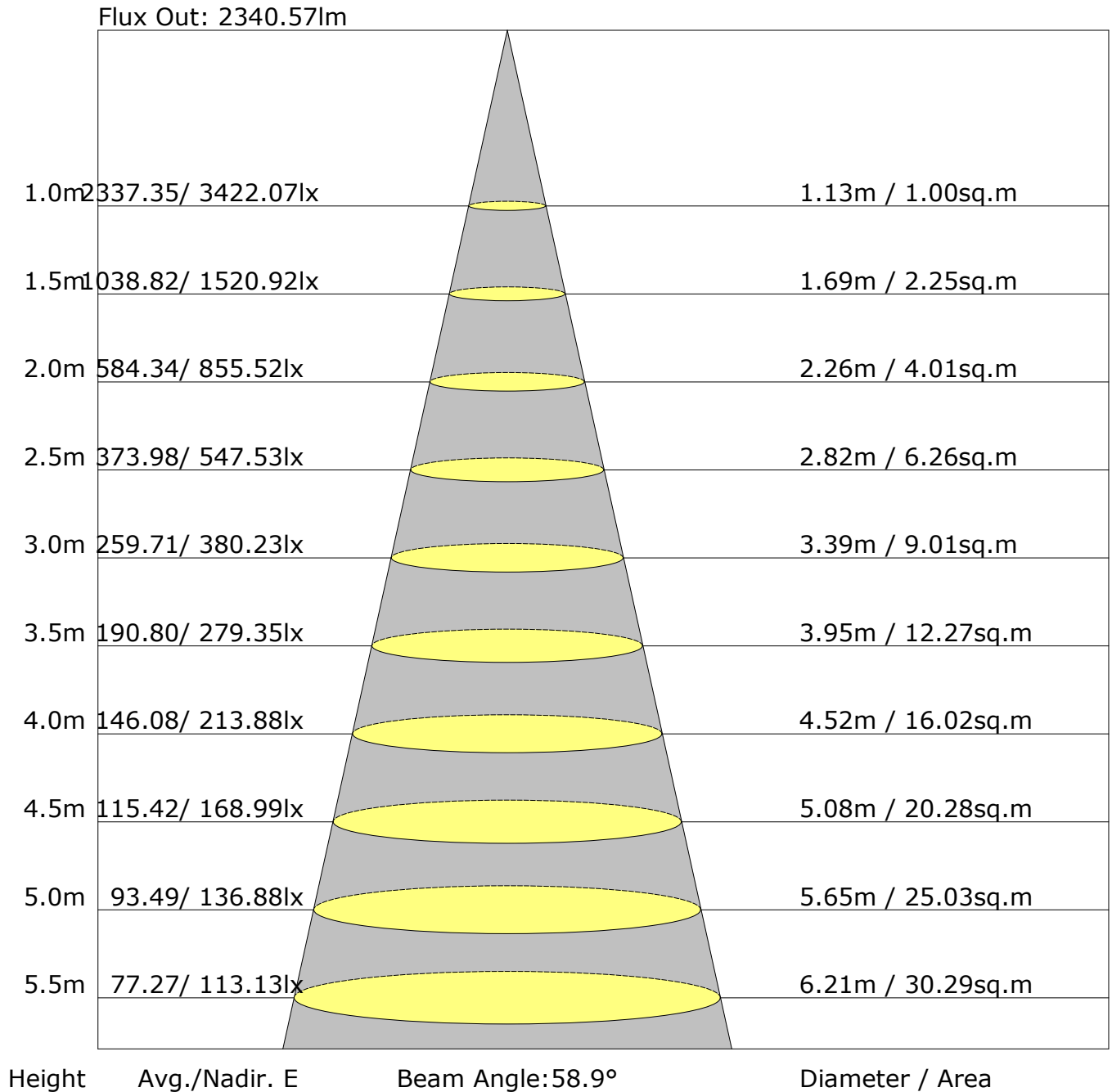
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3422.1 lx
— (1%): 34.2 lx — (2%): 68.4 lx
— (5%): 171.1 lx — (10%): 342.2 lx
— (20%): 684.4 lx — (50%): 1711.0 lx
— (100%): 3422.1 lx

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



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	21.1	22.0	21.4	22.2	22.4	20.8	21.6	21.1	21.8	22.0
3H	21.0	21.7	21.3	22.0	22.2	20.7	21.4	21.0	21.7	21.9
4H	20.9	21.6	21.2	21.9	22.1	20.6	21.3	20.9	21.6	21.8
6H	20.8	21.5	21.2	21.8	22.1	20.5	21.2	20.9	21.5	21.8
8H	20.8	21.4	21.2	21.7	22.0	20.5	21.1	20.8	21.4	21.7
12H	20.8	21.4	21.1	21.7	22.0	20.5	21.1	20.8	21.4	21.7
X=4H Y=2H	20.9	21.6	21.2	21.9	22.1	20.6	21.3	20.9	21.6	21.8
3H	20.8	21.4	21.1	21.7	22.0	20.5	21.1	20.8	21.4	21.7
4H	20.7	21.2	21.1	21.6	21.9	20.4	20.9	20.8	21.3	21.6
6H	20.6	21.1	21.0	21.4	21.8	20.3	20.8	20.7	21.1	21.5
8H	20.6	21.0	21.0	21.4	21.8	20.3	20.7	20.7	21.1	21.5
12H	20.5	20.9	21.0	21.3	21.7	20.2	20.6	20.7	21.0	21.4
X=8H Y=4H	20.6	21.0	21.0	21.4	21.8	20.3	20.7	20.7	21.1	21.5
6H	20.5	20.8	20.9	21.2	21.7	20.2	20.5	20.6	20.9	21.4
8H	20.4	20.7	20.9	21.2	21.7	20.1	20.4	20.6	20.9	21.4
12H	20.4	20.7	20.9	21.1	21.6	20.1	20.3	20.6	20.8	21.3
X=12H Y=4H	20.5	20.9	21.0	21.3	21.7	20.2	20.6	20.7	21.0	21.4
6H	20.4	20.7	20.9	21.2	21.7	20.1	20.4	20.6	20.9	21.4
8H	20.4	20.7	20.9	21.1	21.6	20.1	20.3	20.6	20.8	21.3
Variations with the observer position at spacings:										
S=1.0H	+6.0/-13.4					+6.0/-13.7				
S=1.5H	+8.8/-15.9					+8.8/-16.1				
S=2.0H	+10.8/-17.5					+10.8/-17.5				

Calculate in accordance with CIE Pub.117. The table is revised with 2981lm ($8\log(F/F_0) = 3.8$).

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	1494	50.1
	FL (0°-30°)	1188	39.8
	FM (30°-60°)	303	10.2
	FH (60°-80°)	4	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1487	49.9
	BL (0°-30°)	1205	40.4
	BM (30°-60°)	278	9.3
	BH (60°-80°)	3	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)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 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	3422.1	3.3	3.3	0.11	0.11
1.0-2.0	3422.7	9.8	13.1	0.33	0.44
2.0-3.0	3424.2	16.4	29.5	0.55	0.99
3.0-4.0	3426.7	22.9	52.4	0.77	1.76
4.0-5.0	3430.0	29.5	81.9	0.99	2.75
5.0-6.0	3433.7	36.1	118.0	1.21	3.96
6.0-7.0	3437.1	42.7	160.7	1.43	5.39
7.0-8.0	3439.3	49.2	209.9	1.65	7.04
8.0-9.0	3439.5	55.8	265.7	1.87	8.91
9.0-10.0	3437.0	62.2	327.9	2.09	11.00
10.0-11.0	3431.1	68.6	396.4	2.30	13.30
11.0-12.0	3421.5	74.8	471.2	2.51	15.81
12.0-13.0	3407.3	80.9	552.1	2.71	18.52
13.0-14.0	3387.7	86.7	638.8	2.91	21.43
14.0-15.0	3362.2	92.3	731.2	3.10	24.53
15.0-16.0	3329.8	97.6	828.7	3.27	27.80
16.0-17.0	3290.0	102.5	931.2	3.44	31.24
17.0-18.0	3242.1	106.9	1038.1	3.59	34.83
18.0-19.0	3185.0	110.8	1148.9	3.72	38.54
19.0-20.0	3117.4	114.1	1263.1	3.83	42.37
20.0-21.0	3038.9	116.7	1379.8	3.92	46.29
21.0-22.0	2948.3	118.5	1498.3	3.98	50.26
22.0-23.0	2844.8	119.4	1617.6	4.01	54.27
23.0-24.0	2728.0	119.3	1736.9	4.00	58.27
24.0-25.0	2598.6	118.2	1855.1	3.96	62.23
25.0-26.0	2459.7	116.1	1971.2	3.90	66.13
26.0-27.0	2314.7	113.3	2084.5	3.80	69.93
27.0-28.0	2153.2	109.0	2193.5	3.66	73.59
28.0-29.0	1970.5	103.1	2296.6	3.46	77.05
29.0-30.0	1777.5	96.0	2392.6	3.22	80.27
30.0-31.0	1581.2	88.0	2480.6	2.95	83.22
31.0-32.0	1385.7	79.4	2560.0	2.66	85.88
32.0-33.0	1194.9	70.4	2630.4	2.36	88.24
33.0-34.0	1013.9	61.4	2691.8	2.06	90.30
34.0-35.0	841.9	52.3	2744.1	1.75	92.06
35.0-36.0	683.0	43.5	2787.6	1.46	93.52

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	541.2	35.3	2822.9	1.18	94.70
37.0-38.0	415.3	27.7	2850.6	0.93	95.63
38.0-39.0	309.8	21.1	2871.7	0.71	96.34
39.0-40.0	233.8	16.3	2888.0	0.55	96.89
40.0-41.0	186.8	13.3	2901.3	0.45	97.33
41.0-42.0	153.7	11.2	2912.5	0.37	97.71
42.0-43.0	126.1	9.3	2921.9	0.31	98.02
43.0-44.0	103.6	7.8	2929.7	0.26	98.28
44.0-45.0	85.7	6.6	2936.3	0.22	98.51
45.0-46.0	71.8	5.6	2941.9	0.19	98.69
46.0-47.0	60.5	4.8	2946.7	0.16	98.85
47.0-48.0	51.0	4.1	2950.8	0.14	98.99
48.0-49.0	43.4	3.6	2954.4	0.12	99.11
49.0-50.0	36.9	3.1	2957.5	0.10	99.22
50.0-51.0	31.5	2.7	2960.1	0.09	99.31
51.0-52.0	27.0	2.3	2962.4	0.08	99.38
52.0-53.0	23.3	2.0	2964.5	0.07	99.45
53.0-54.0	20.2	1.8	2966.3	0.06	99.51
54.0-55.0	17.6	1.6	2967.8	0.05	99.56
55.0-56.0	15.4	1.4	2969.2	0.05	99.61
56.0-57.0	13.6	1.2	2970.5	0.04	99.65
57.0-58.0	12.0	1.1	2971.6	0.04	99.69
58.0-59.0	10.7	1.0	2972.6	0.03	99.72
59.0-60.0	9.6	0.9	2973.5	0.03	99.75
60.0-61.0	8.6	0.8	2974.3	0.03	99.78
61.0-62.0	7.7	0.7	2975.0	0.02	99.81
62.0-63.0	7.0	0.7	2975.7	0.02	99.83
63.0-64.0	6.4	0.6	2976.3	0.02	99.85
64.0-65.0	5.7	0.6	2976.9	0.02	99.87
65.0-66.0	5.2	0.5	2977.4	0.02	99.89
66.0-67.0	4.8	0.5	2977.9	0.02	99.90
67.0-68.0	4.3	0.4	2978.4	0.01	99.92
68.0-69.0	3.8	0.4	2978.7	0.01	99.93
69.0-70.0	3.4	0.4	2979.1	0.01	99.94
70.0-71.0	3.1	0.3	2979.4	0.01	99.95
71.0-72.0	2.7	0.3	2979.7	0.01	99.96

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:

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	3422.1	3422.1								
G1.0	3403.9	3440.4								
G2.0	3386.6	3459.8								
G3.0	3370.8	3479.6								
G4.0	3356.4	3500.3								
G5.0	3344.3	3519.3								
G6.0	3333.6	3537.6								
G7.0	3323.9	3553.5								
G8.0	3313.6	3566.4								
G9.0	3303.2	3574.9								
G10.0	3291.9	3578.1								
G11.0	3279.3	3575.2								
G12.0	3264.9	3566.5								
G13.0	3247.8	3549.8								
G14.0	3229.1	3524.3								
G15.0	3205.7	3489.6								
G16.0	3178.9	3444.9								
G17.0	3145.9	3390.2								
G18.0	3107.7	3324.5								
G19.0	3063.1	3244.6								
G20.0	3009.4	3152.6								
G21.0	2945.5	3048.1								
G22.0	2868.8	2930.9								
G23.0	2779.8	2799.8								
G24.0	2677.5	2655.1								
G25.0	2561.4	2500.5								
G26.0	2433.9	2343.0								
G27.0	2298.4	2183.6								
G28.0	2132.7	1998.0								
G29.0	1950.3	1801.0								
G30.0	1757.6	1601.0								
G31.0	1561.7	1404.5								
G32.0	1365.1	1211.5								
G33.0	1174.6	1028.4								
G34.0	995.3	857.3								
G35.0	819.2	695.9								
G36.0	663.4	553.5								

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	522.9	425.0								
G38.0	398.6	314.8								
G39.0	297.7	227.9								
G40.0	232.6	176.8								
G41.0	192.4	145.3								
G42.0	158.6	118.6								
G43.0	130.6	96.6								
G44.0	107.8	79.3								
G45.0	89.8	66.0								
G46.0	75.8	55.7								
G47.0	63.8	46.6								
G48.0	54.4	39.4								
G49.0	46.3	33.6								
G50.0	39.4	28.4								
G51.0	33.7	24.3								
G52.0	29.1	21.0								
G53.0	25.2	18.0								
G54.0	21.8	15.8								
G55.0	19.0	13.7								
G56.0	16.8	12.2								
G57.0	14.5	10.8								
G58.0	13.1	9.6								
G59.0	11.5	8.7								
G60.0	10.2	8.0								
G61.0	9.1	7.0								
G62.0	8.1	6.4								
G63.0	7.6	5.9								
G64.0	6.7	5.3								
G65.0	6.2	4.8								
G66.0	5.4	4.5								
G67.0	5.0	4.2								
G68.0	4.5	3.6								
G69.0	3.8	3.4								
G70.0	3.5	3.1								
G71.0	3.1	2.8								
G72.0	2.5	2.2								
G73.0	2.2	2.0								

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:

Unit: cd

[illegible]

Inspector: