

Report No.:

Test Time: 2025-09-16 16:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 80D

Luminous Width (mm): -14

Current: 0.113 A

Power Factor: 0.866

Luminous Length (mm): -380

Voltage: 225.4 V

Power: 22.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1584 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H68.9

Vertical Diffuse Angle(50%): V68.9

Luminaire Efficacy Rating (LER): 71.72

Max. Intensity: 1364.35 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 1584.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1344.64 cd

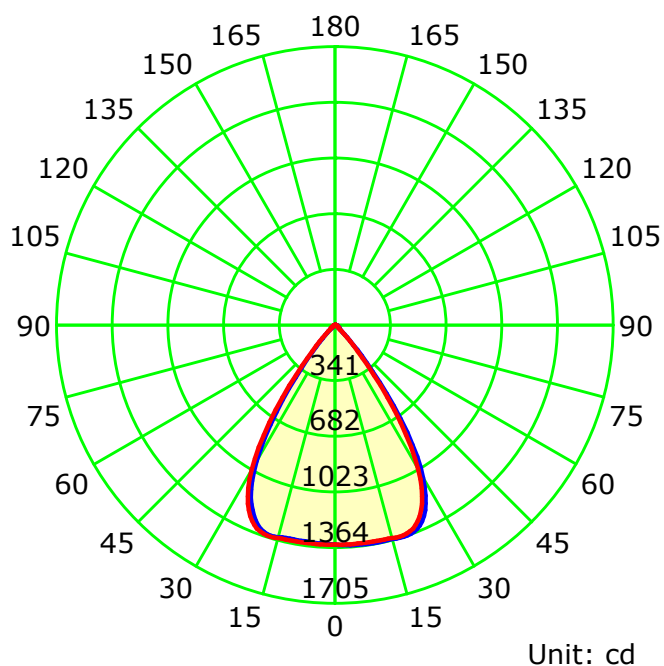
Pos of Max. Intensity: H0 V18

S/MH(C90/C270): 1.15

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

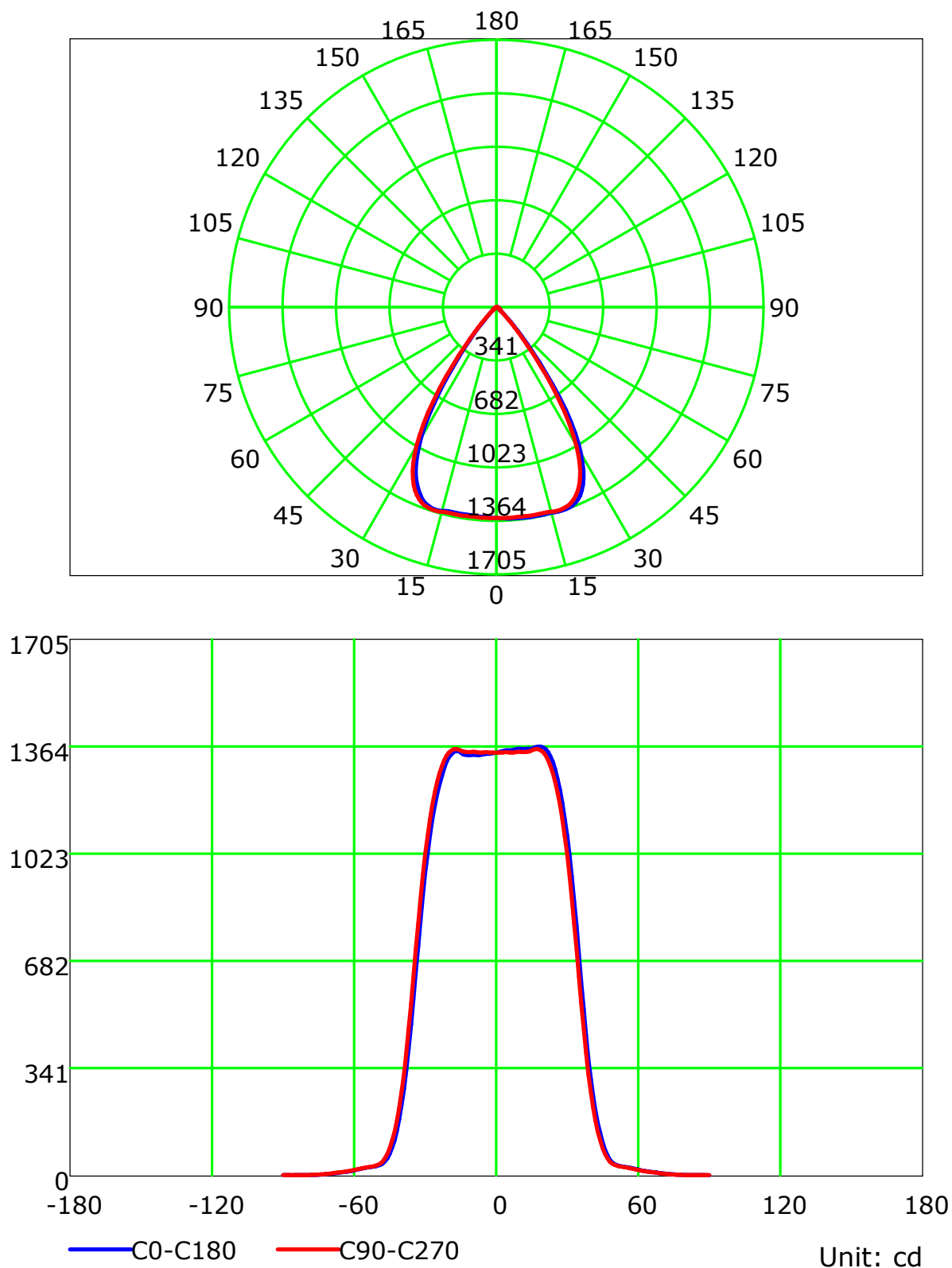
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

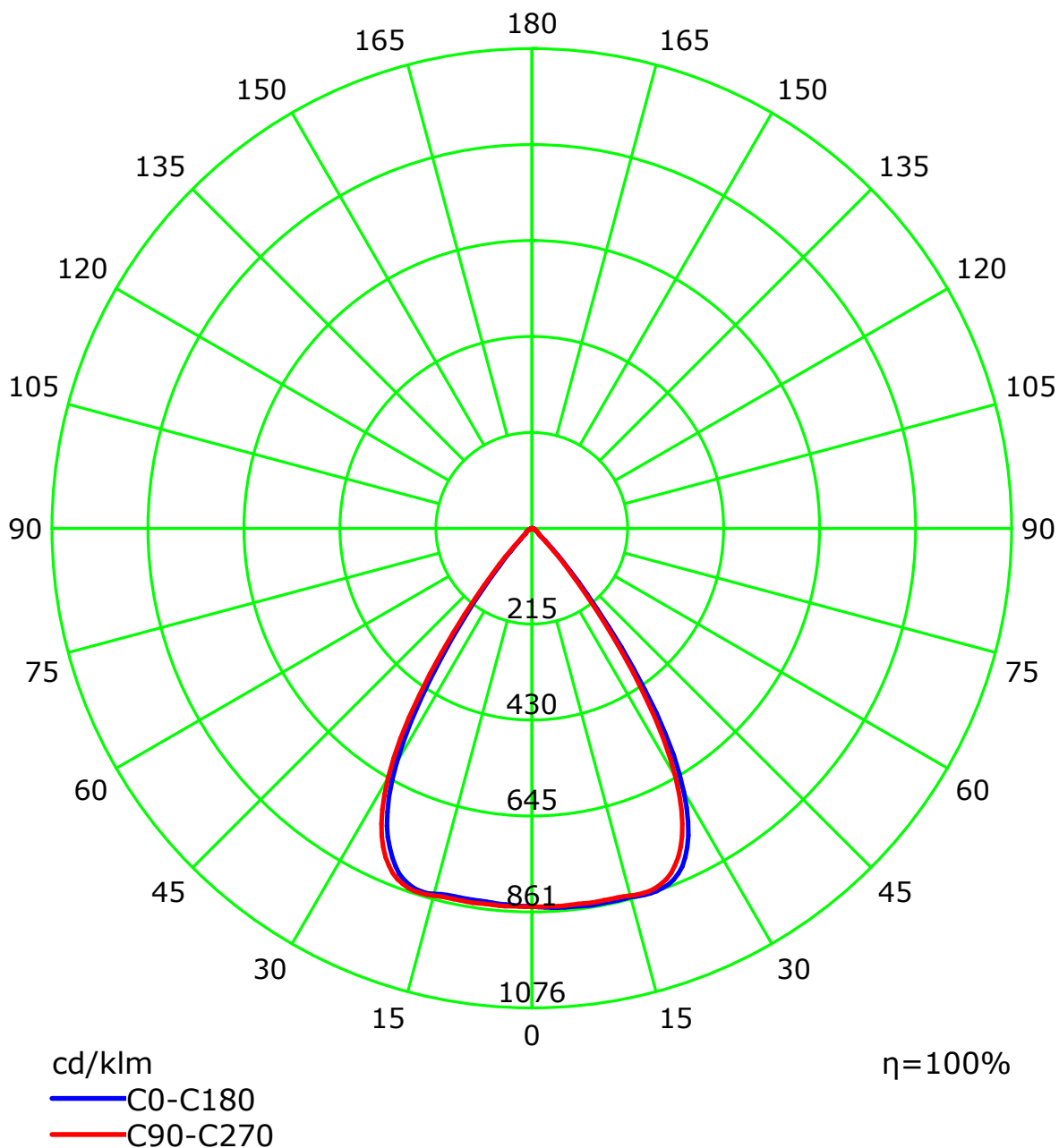
Luminous Intensity Distribution Curve



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:

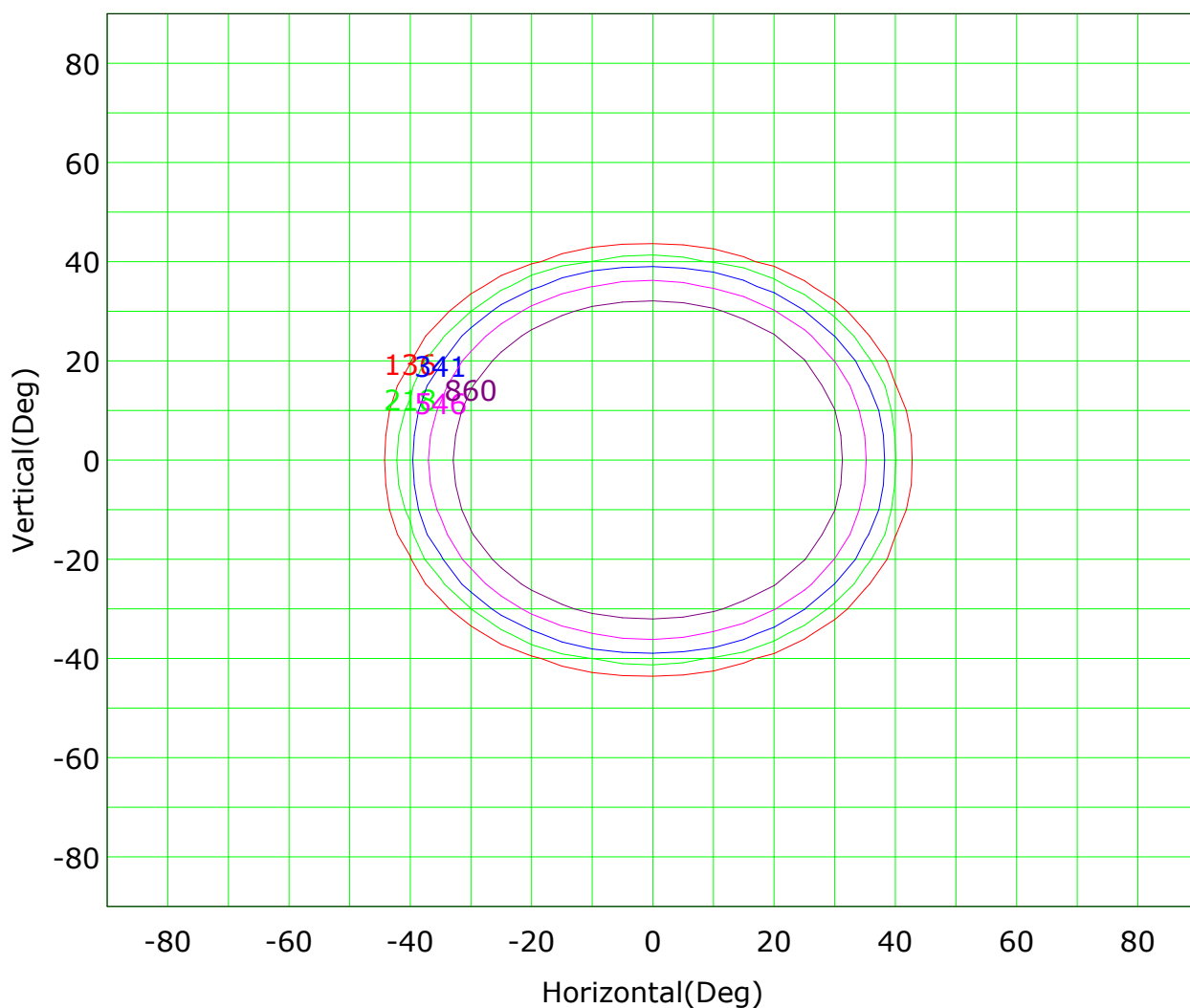
Luminous Intensity Distribution Curve(cd/klm)



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%): 1364 cd

(10%): 136 cd	(16%): 218 cd
(25%): 341 cd	(40%): 546 cd
(63%): 860 cd	(100%): 1364 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

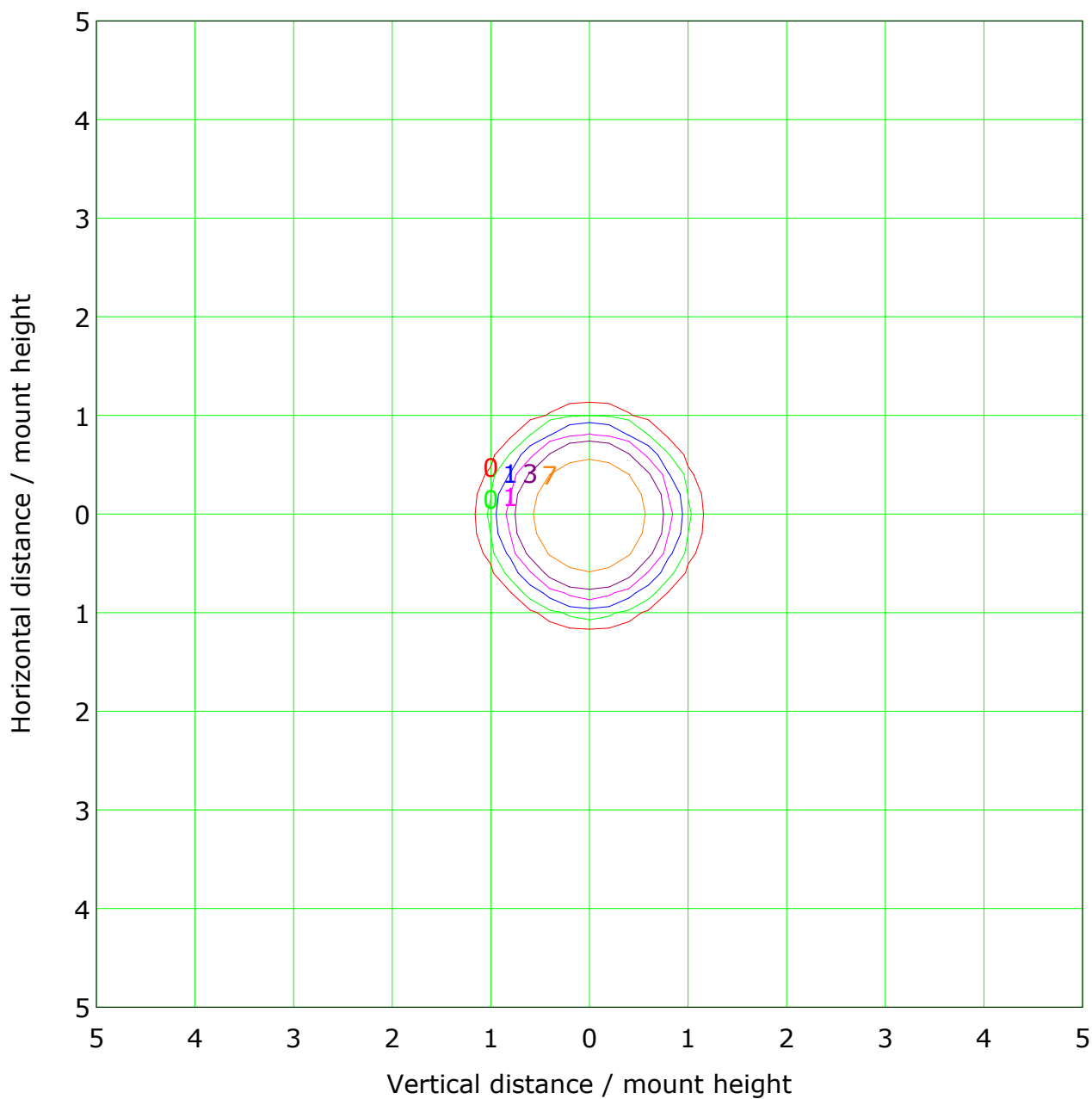
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



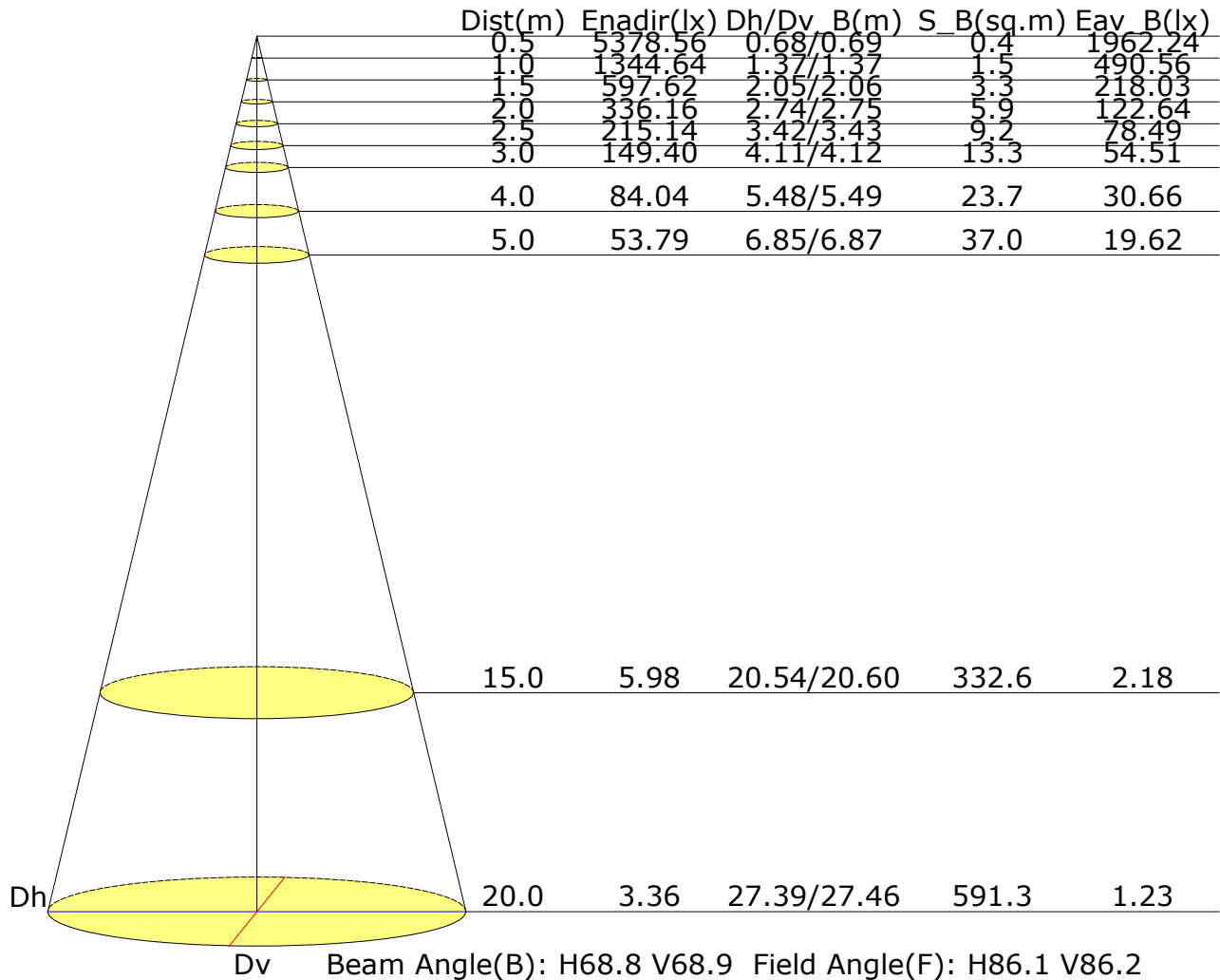
Mounting Height: 10.0m Max Lux(100%): 13.5 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.3 lx
(20%): 2.7 lx	(50%): 6.7 lx
(100%): 13.5 lx	

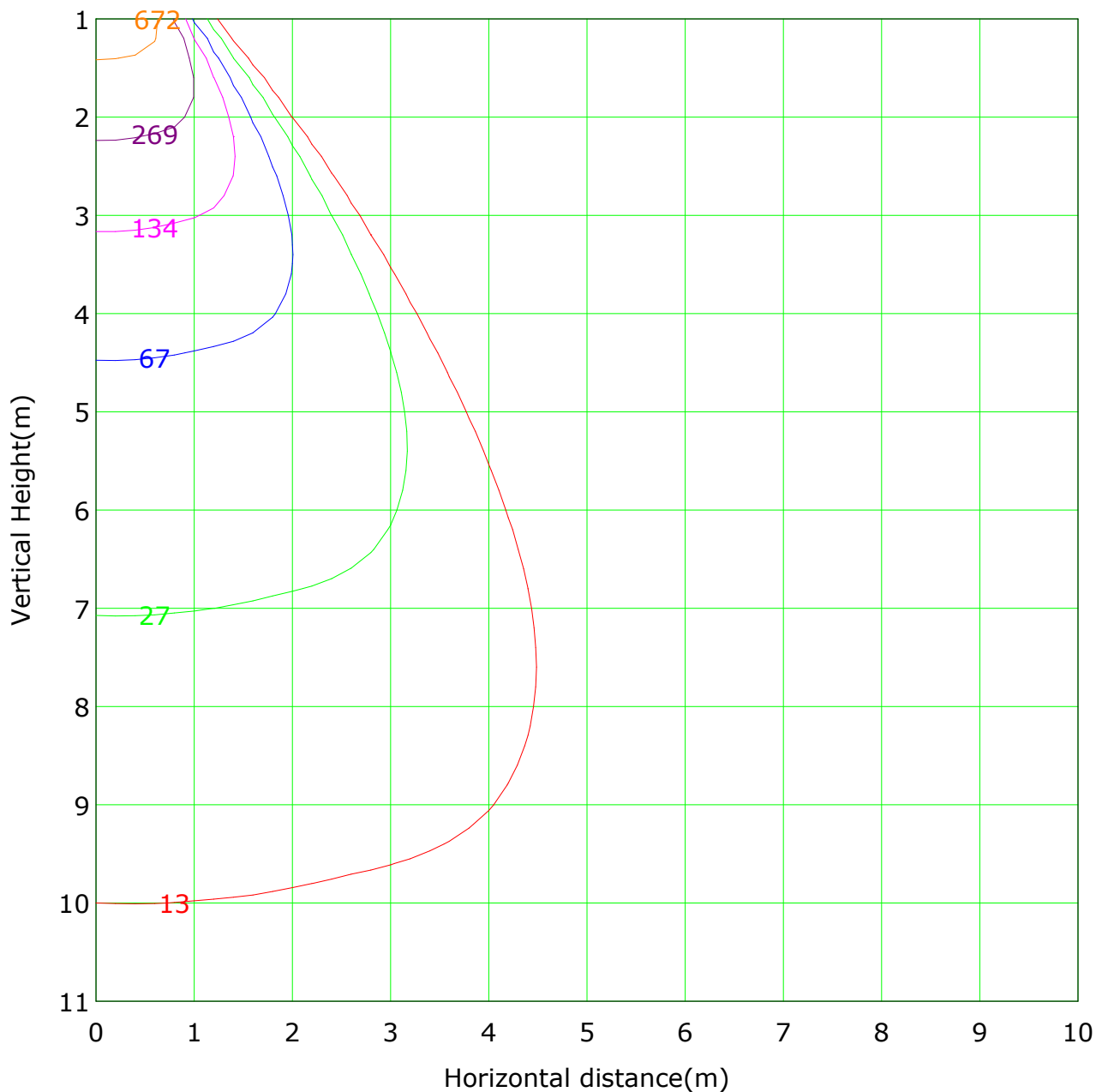
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



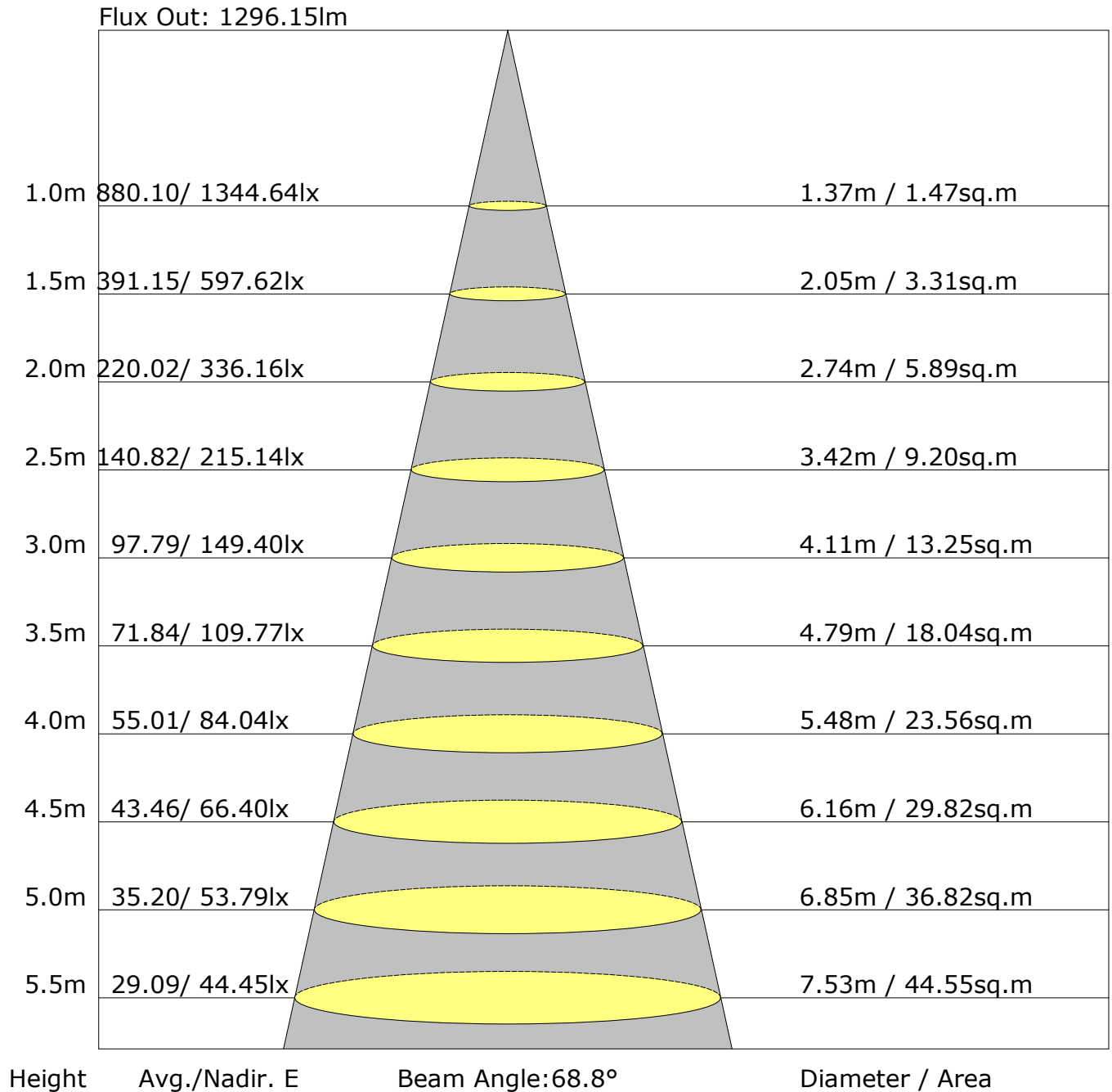
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1344.6 lx
— (1%): 13.4 lx — (2%): 26.9 lx
— (5%): 67.2 lx — (10%): 134.5 lx
— (20%): 268.9 lx — (50%): 672.3 lx
— (100%):1344.6 lx

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	22.5	23.4	22.8	23.6	23.8	22.1	23.0	22.4	23.2	23.4
3H	22.4	23.2	22.7	23.5	23.7	22.0	22.8	22.3	23.1	23.3
4H	22.3	23.1	22.7	23.4	23.6	21.9	22.7	22.3	23.0	23.2
6H	22.3	23.0	22.6	23.3	23.6	21.9	22.6	22.2	22.9	23.1
8H	22.2	22.9	22.6	23.2	23.5	21.8	22.5	22.2	22.8	23.1
12H	22.2	22.8	22.6	23.2	23.5	21.8	22.4	22.2	22.7	23.1
X=4H Y=2H	22.3	23.1	22.6	23.3	23.6	21.9	22.7	22.2	22.9	23.2
3H	22.2	22.9	22.6	23.2	23.5	21.8	22.5	22.2	22.8	23.1
4H	22.2	22.7	22.5	23.1	23.4	21.8	22.3	22.1	22.7	23.0
6H	22.1	22.6	22.5	23.0	23.4	21.7	22.2	22.1	22.6	22.9
8H	22.1	22.5	22.5	22.9	23.3	21.6	22.1	22.1	22.5	22.9
12H	22.0	22.4	22.5	22.8	23.3	21.6	22.0	22.1	22.4	22.9
X=8H Y=4H	22.0	22.5	22.5	22.9	23.3	21.6	22.1	22.1	22.5	22.9
6H	22.0	22.3	22.4	22.8	23.2	21.6	21.9	22.0	22.4	22.8
8H	21.9	22.3	22.4	22.7	23.2	21.5	21.9	22.0	22.3	22.8
12H	21.9	22.2	22.4	22.6	23.1	21.5	21.8	22.0	22.2	22.7
X=12H Y=4H	22.0	22.4	22.4	22.8	23.3	21.6	22.0	22.0	22.4	22.9
6H	21.9	22.3	22.4	22.7	23.2	21.5	21.9	22.0	22.3	22.8
8H	21.9	22.2	22.4	22.6	23.1	21.5	21.8	22.0	22.2	22.7
Variations with the observer position at spacings:										
S=1.0H	+5.0/-8.7					+5.0/-8.6				
S=1.5H	+7.8/-9.9					+7.8/-9.9				
S=2.0H	+9.8/-11.0					+9.8/-11.1				

Calculate in accordance with CIE Pub.117. The table is revised with 1584lm ($8\log(F/F_0) = 1.6$).

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	812	51.2
	FL (0°-30°)	543	34.3
	FM (30°-60°)	260	16.4
	FH (60°-80°)	8	0.5
	FVH (80°-90°)	1	0.0
	BACK LIGHT	772	48.8
	BL (0°-30°)	532	33.6
	BM (30°-60°)	233	14.7
	BH (60°-80°)	7	0.4
	BVH (80°-90°)	1	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	1345.0	1.3	1.3	0.08	0.08
1.0-2.0	1345.5	3.9	5.1	0.24	0.33
2.0-3.0	1345.7	6.4	11.6	0.41	0.73
3.0-4.0	1346.2	9.0	20.6	0.57	1.30
4.0-5.0	1346.6	11.6	32.2	0.73	2.03
5.0-6.0	1346.0	14.1	46.3	0.89	2.92
6.0-7.0	1345.5	16.7	63.0	1.05	3.98
7.0-8.0	1345.9	19.3	82.3	1.22	5.20
8.0-9.0	1347.0	21.8	104.1	1.38	6.57
9.0-10.0	1347.5	24.4	128.5	1.54	8.11
10.0-11.0	1347.2	26.9	155.4	1.70	9.81
11.0-12.0	1347.0	29.4	184.9	1.86	11.67
12.0-13.0	1347.5	32.0	216.9	2.02	13.69
13.0-14.0	1348.3	34.5	251.4	2.18	15.87
14.0-15.0	1350.1	37.1	288.5	2.34	18.21
15.0-16.0	1353.4	39.7	328.1	2.50	20.72
16.0-17.0	1355.8	42.2	370.4	2.67	23.38
17.0-18.0	1356.1	44.7	415.1	2.82	26.20
18.0-19.0	1353.7	47.1	462.2	2.97	29.18
19.0-20.0	1348.4	49.4	511.5	3.12	32.29
20.0-21.0	1340.5	51.5	563.0	3.25	35.54
21.0-22.0	1328.5	53.4	616.4	3.37	38.91
22.0-23.0	1311.7	55.0	671.5	3.48	42.39
23.0-24.0	1290.7	56.4	727.9	3.56	45.95
24.0-25.0	1265.3	57.5	785.4	3.63	49.59
25.0-26.0	1235.1	58.3	843.7	3.68	53.27
26.0-27.0	1198.8	58.7	902.4	3.70	56.97
27.0-28.0	1155.9	58.5	960.9	3.70	60.66
28.0-29.0	1106.6	57.9	1018.8	3.66	64.32
29.0-30.0	1050.9	56.7	1075.6	3.58	67.90
30.0-31.0	988.4	55.0	1130.6	3.47	71.38
31.0-32.0	918.7	52.6	1183.2	3.32	74.70
32.0-33.0	842.3	49.6	1232.9	3.13	77.83
33.0-34.0	760.7	46.0	1278.9	2.91	80.74
34.0-35.0	675.7	42.0	1320.9	2.65	83.39
35.0-36.0	590.0	37.6	1358.4	2.37	85.76

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	506.9	33.1	1391.5	2.09	87.85
37.0-38.0	428.6	28.6	1420.1	1.81	89.65
38.0-39.0	356.8	24.4	1444.5	1.54	91.19
39.0-40.0	293.6	20.5	1465.0	1.29	92.48
40.0-41.0	239.8	17.1	1482.0	1.08	93.56
41.0-42.0	194.3	14.1	1496.2	0.89	94.45
42.0-43.0	156.4	11.6	1507.7	0.73	95.19
43.0-44.0	124.9	9.4	1517.2	0.60	95.78
44.0-45.0	99.1	7.6	1524.8	0.48	96.26
45.0-46.0	78.2	6.1	1530.9	0.39	96.65
46.0-47.0	61.7	4.9	1535.8	0.31	96.96
47.0-48.0	49.3	4.0	1539.8	0.25	97.21
48.0-49.0	40.9	3.4	1543.1	0.21	97.42
49.0-50.0	35.6	3.0	1546.1	0.19	97.61
50.0-51.0	32.2	2.7	1548.8	0.17	97.78
51.0-52.0	30.0	2.6	1551.4	0.16	97.94
52.0-53.0	28.5	2.5	1553.9	0.16	98.10
53.0-54.0	27.2	2.4	1556.3	0.15	98.25
54.0-55.0	25.9	2.3	1558.6	0.15	98.40
55.0-56.0	24.7	2.2	1560.8	0.14	98.54
56.0-57.0	23.4	2.1	1563.0	0.13	98.67
57.0-58.0	21.8	2.0	1565.0	0.13	98.80
58.0-59.0	20.1	1.9	1566.9	0.12	98.92
59.0-60.0	18.3	1.7	1568.6	0.11	99.03
60.0-61.0	16.5	1.6	1570.2	0.10	99.13
61.0-62.0	15.0	1.4	1571.6	0.09	99.22
62.0-63.0	13.6	1.3	1572.9	0.08	99.30
63.0-64.0	12.4	1.2	1574.1	0.08	99.38
64.0-65.0	11.2	1.1	1575.3	0.07	99.45
65.0-66.0	10.3	1.0	1576.3	0.06	99.51
66.0-67.0	9.4	0.9	1577.2	0.06	99.57
67.0-68.0	8.5	0.9	1578.1	0.05	99.63
68.0-69.0	7.7	0.8	1578.9	0.05	99.68
69.0-70.0	6.7	0.7	1579.6	0.04	99.72
70.0-71.0	5.9	0.6	1580.2	0.04	99.76
71.0-72.0	5.2	0.5	1580.7	0.03	99.79

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

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1344.6	1344.6								
G1.0	1347.0	1343.5								
G2.0	1348.6	1342.8								
G3.0	1350.4	1341.0								
G4.0	1352.3	1341.1								
G5.0	1352.3	1340.6								
G6.0	1352.6	1338.5								
G7.0	1353.7	1337.2								
G8.0	1355.4	1337.4								
G9.0	1357.2	1337.9								
G10.0	1357.2	1337.8								
G11.0	1356.4	1337.5								
G12.0	1356.9	1337.2								
G13.0	1357.8	1338.2								
G14.0	1357.2	1340.0								
G15.0	1357.5	1345.6								
G16.0	1360.9	1349.7								
G17.0	1362.8	1349.9								
G18.0	1364.3	1347.2								
G19.0	1363.8	1339.6								
G20.0	1360.4	1329.9								
G21.0	1355.8	1315.8								
G22.0	1346.7	1295.6								
G23.0	1333.3	1271.1								
G24.0	1315.7	1242.7								
G25.0	1290.7	1212.1								
G26.0	1261.2	1176.5								
G27.0	1225.5	1131.9								
G28.0	1183.9	1082.3								
G29.0	1135.1	1025.1								
G30.0	1080.9	962.4								
G31.0	1020.0	890.4								
G32.0	951.5	812.9								
G33.0	874.5	730.3								
G34.0	793.1	645.0								
G35.0	702.7	561.9								
G36.0	614.6	480.7								

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Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	528.9	403.3								
G38.0	446.3	335.9								
G39.0	370.5	274.7								
G40.0	306.8	222.5								
G41.0	251.4	178.4								
G42.0	205.2	142.1								
G43.0	166.6	111.6								
G44.0	133.8	87.7								
G45.0	105.9	68.9								
G46.0	82.9	55.0								
G47.0	64.1	44.8								
G48.0	50.6	37.8								
G49.0	41.7	33.6								
G50.0	35.9	31.0								
G51.0	32.7	29.1								
G52.0	30.5	27.7								
G53.0	29.0	26.7								
G54.0	27.5	25.5								
G55.0	26.3	24.3								
G56.0	25.2	23.1								
G57.0	23.8	21.4								
G58.0	22.4	19.6								
G59.0	20.6	17.9								
G60.0	18.7	15.9								
G61.0	16.9	14.4								
G62.0	15.4	13.1								
G63.0	14.1	11.9								
G64.0	12.7	10.8								
G65.0	11.6	9.8								
G66.0	10.8	8.9								
G67.0	9.9	8.0								
G68.0	9.1	7.1								
G69.0	8.0	6.4								
G70.0	7.1	5.4								
G71.0	6.3	4.8								
G72.0	5.4	4.2								
G73.0	4.5	3.2								

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

Inspector: