

Report No.:

Test Time: 2026-09-29 08:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 50D

Luminous Length (mm): -52

Voltage: 226.5 V

Power: 13.70 W

Lamp Description: BLX V6HD F90 3000K

Luminous Width (mm): -52

Current: 0.064 A

Power Factor: 0.942

Photometric Results

CIE Class: Direct

Measurement Flux: 1054.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H47.1

Vertical Diffuse Angle(50%): V47.1

Luminaire Efficacy Rating (LER): 77.05

Max. Intensity: 1612.95 cd

S/MH(C0/C180): 0.77

Total Rated Lamp Lumens: 1054.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1590.13 cd

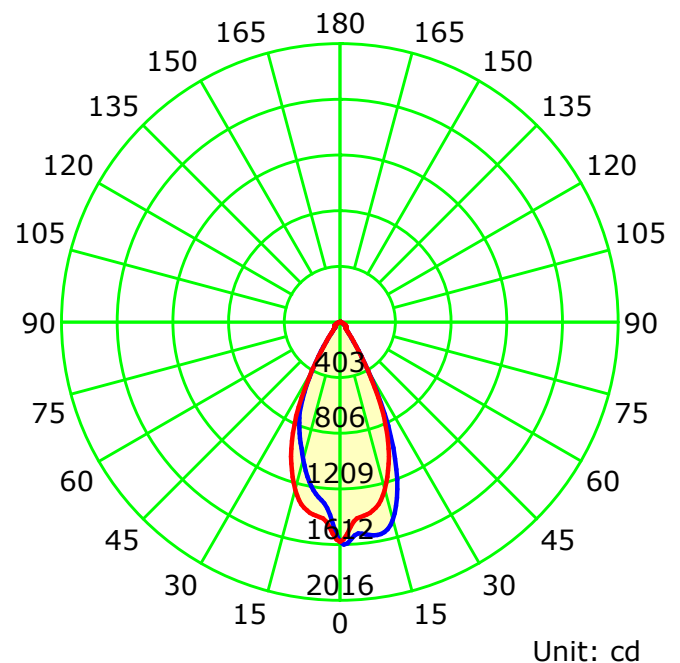
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.77

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

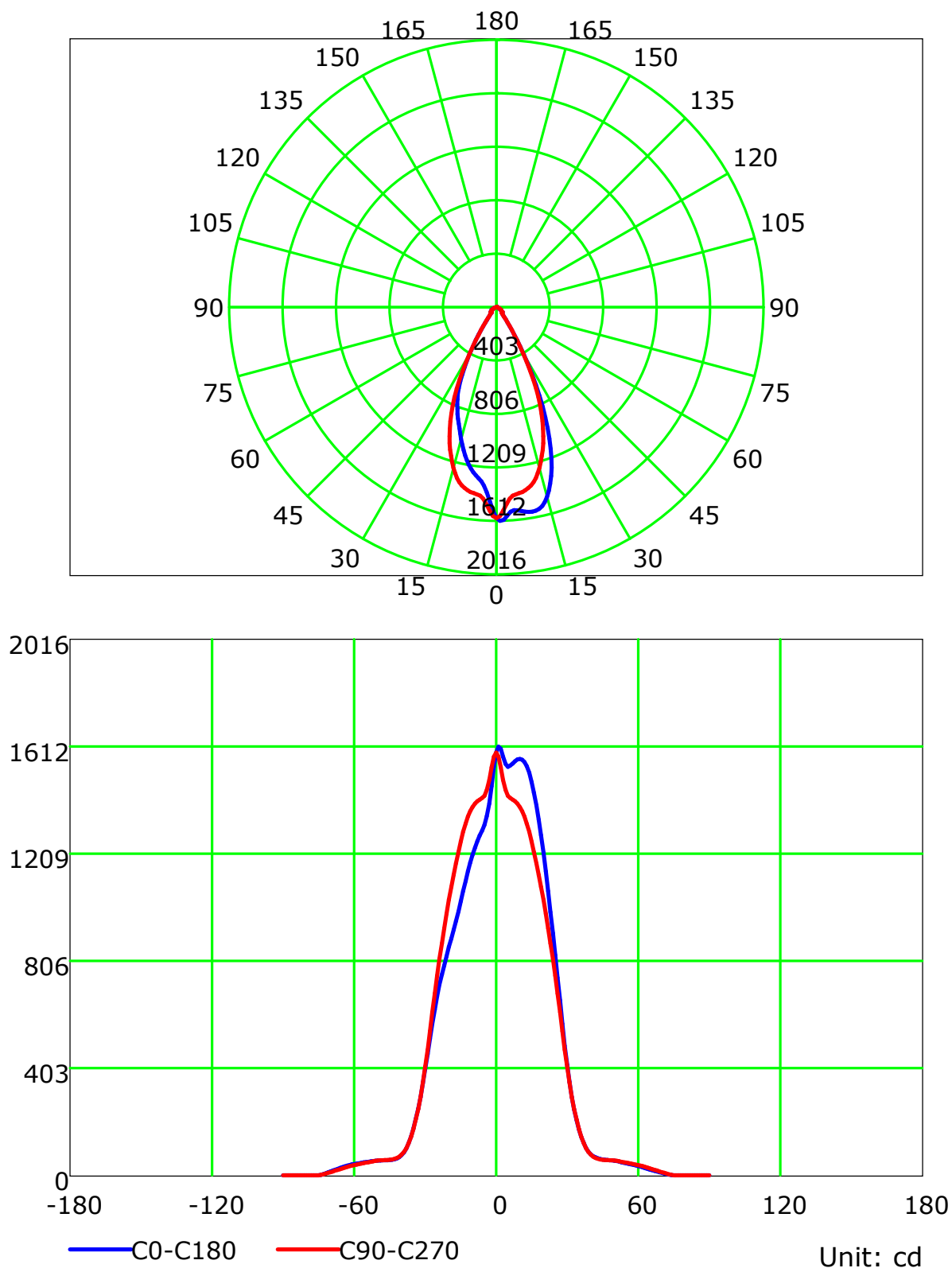
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

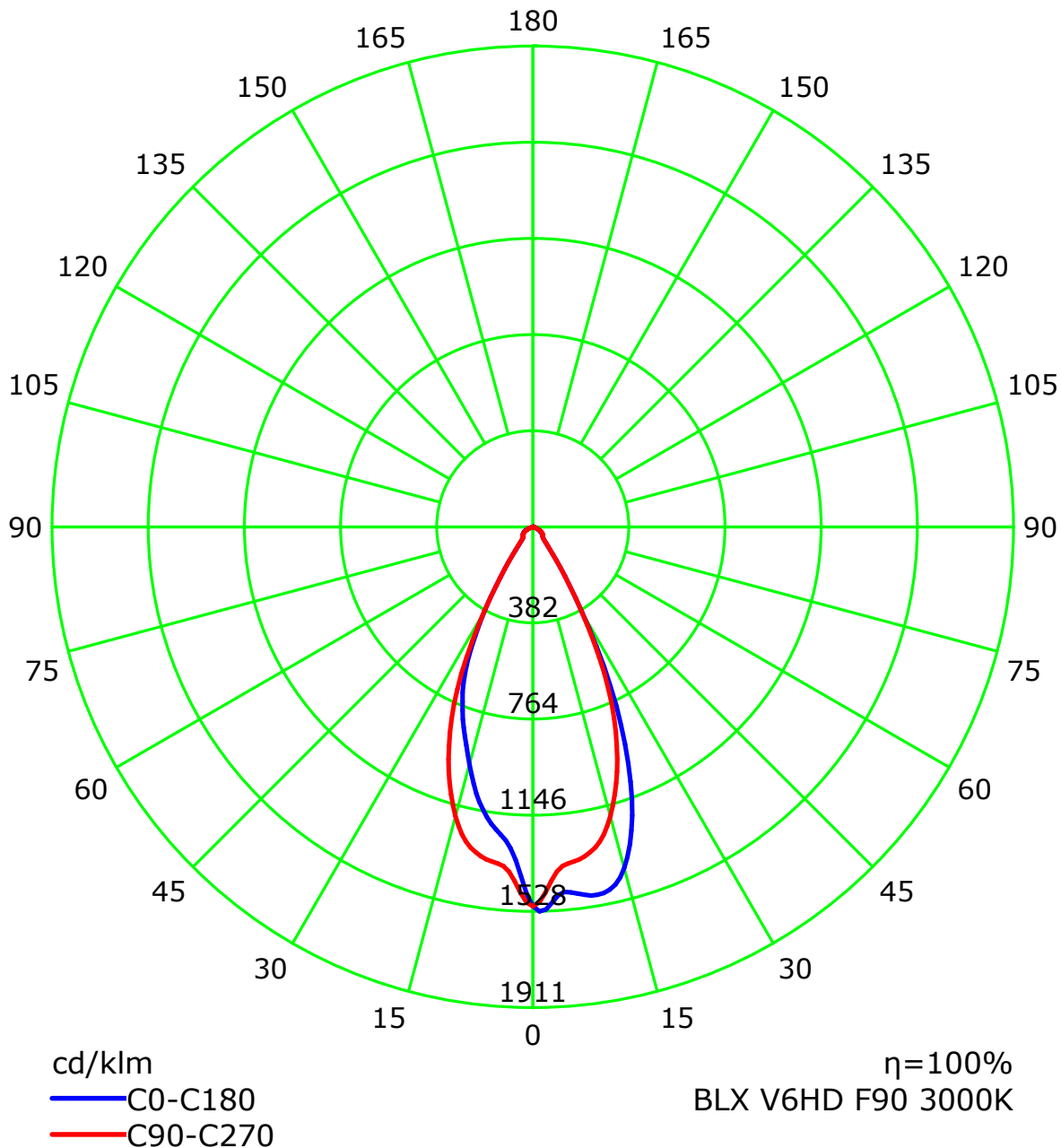
Luminous Intensity Distribution Curve



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: 3.010 m
Humidity:
Inspector:

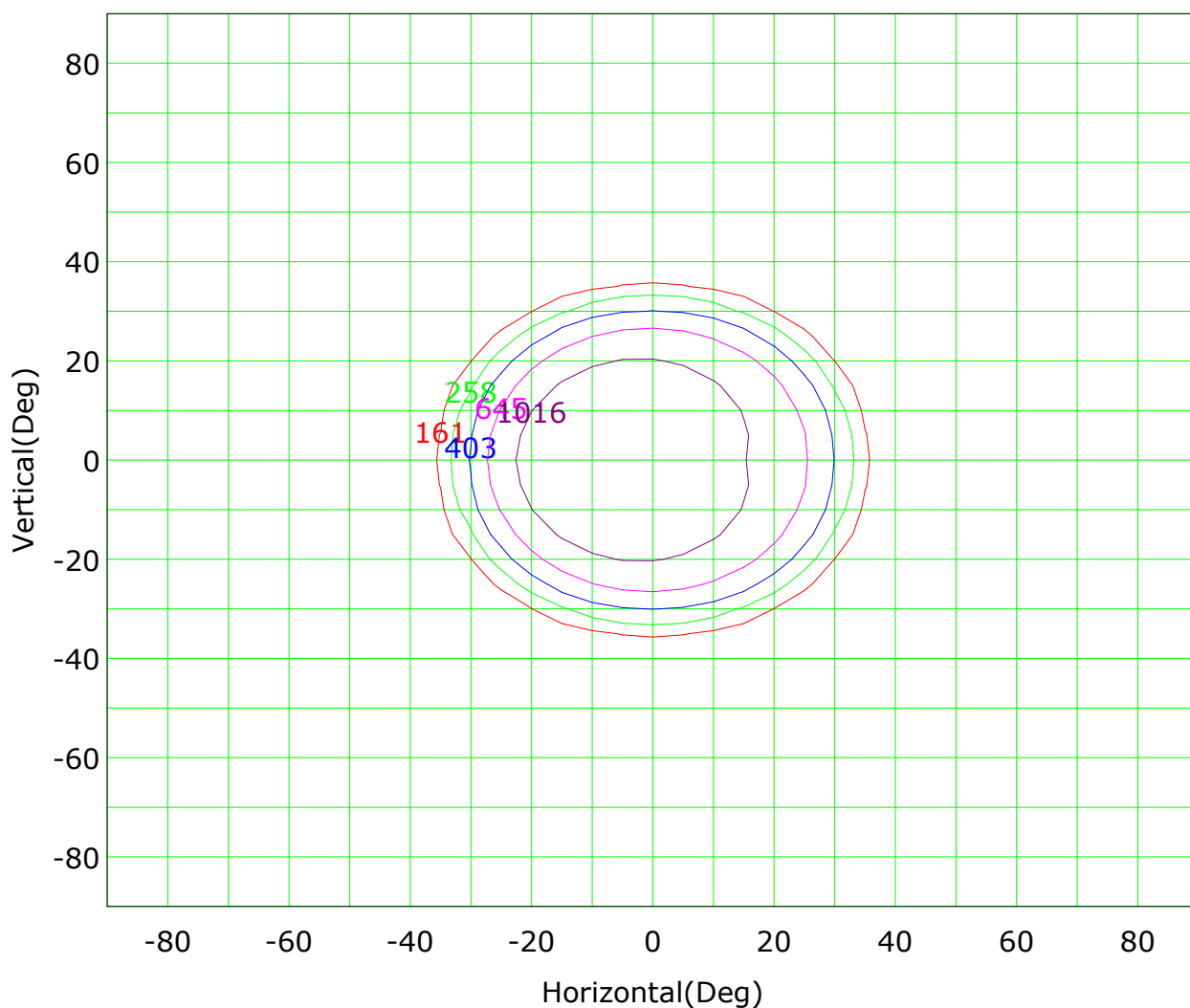
Luminous Intensity Distribution Curve(cd/klm)



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: 3.010 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 1613 cd

(10%): 161 cd	(16%): 258 cd
(25%): 403 cd	(40%): 645 cd
(63%): 1016 cd	(100%): 1613 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

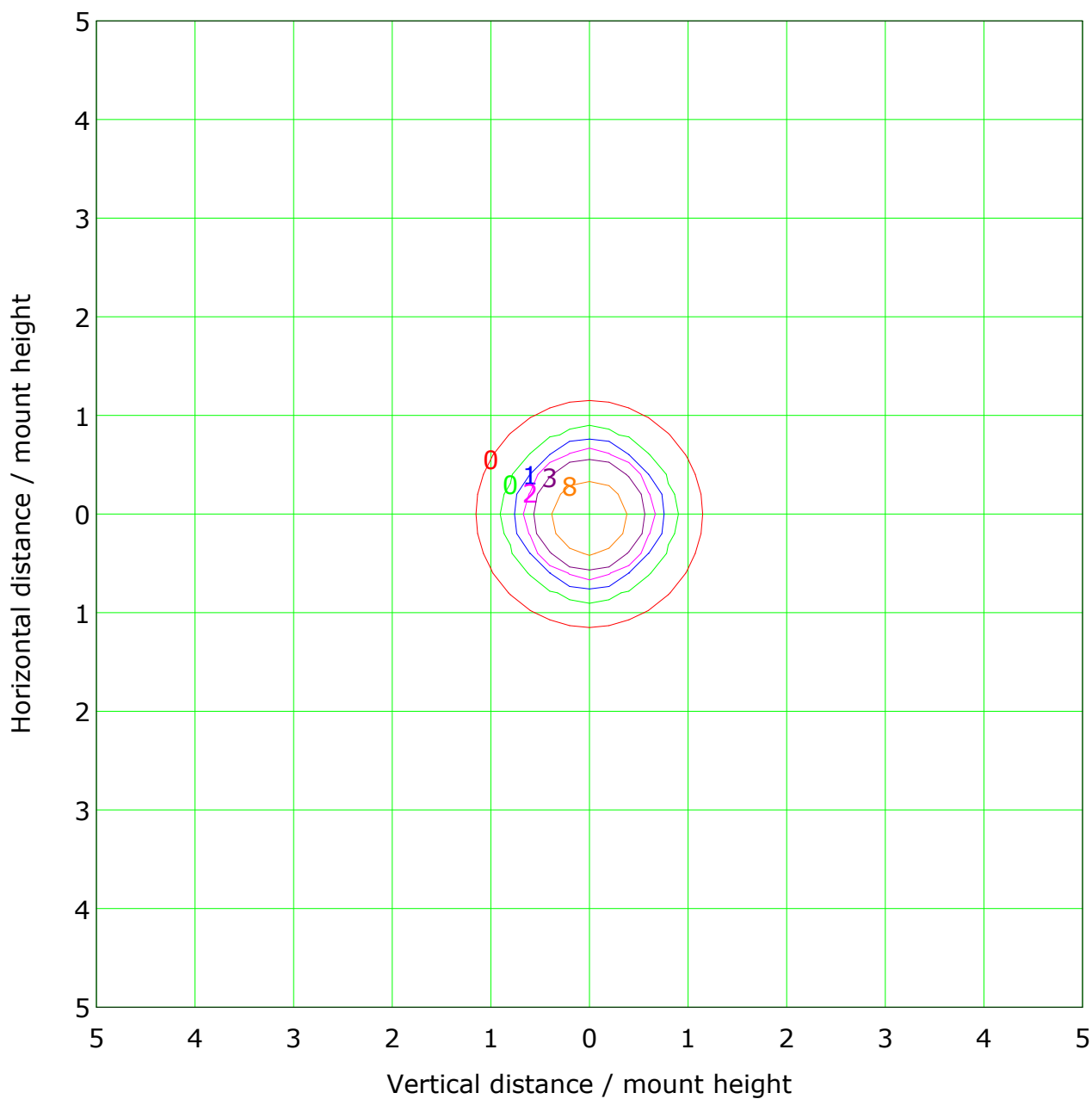
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



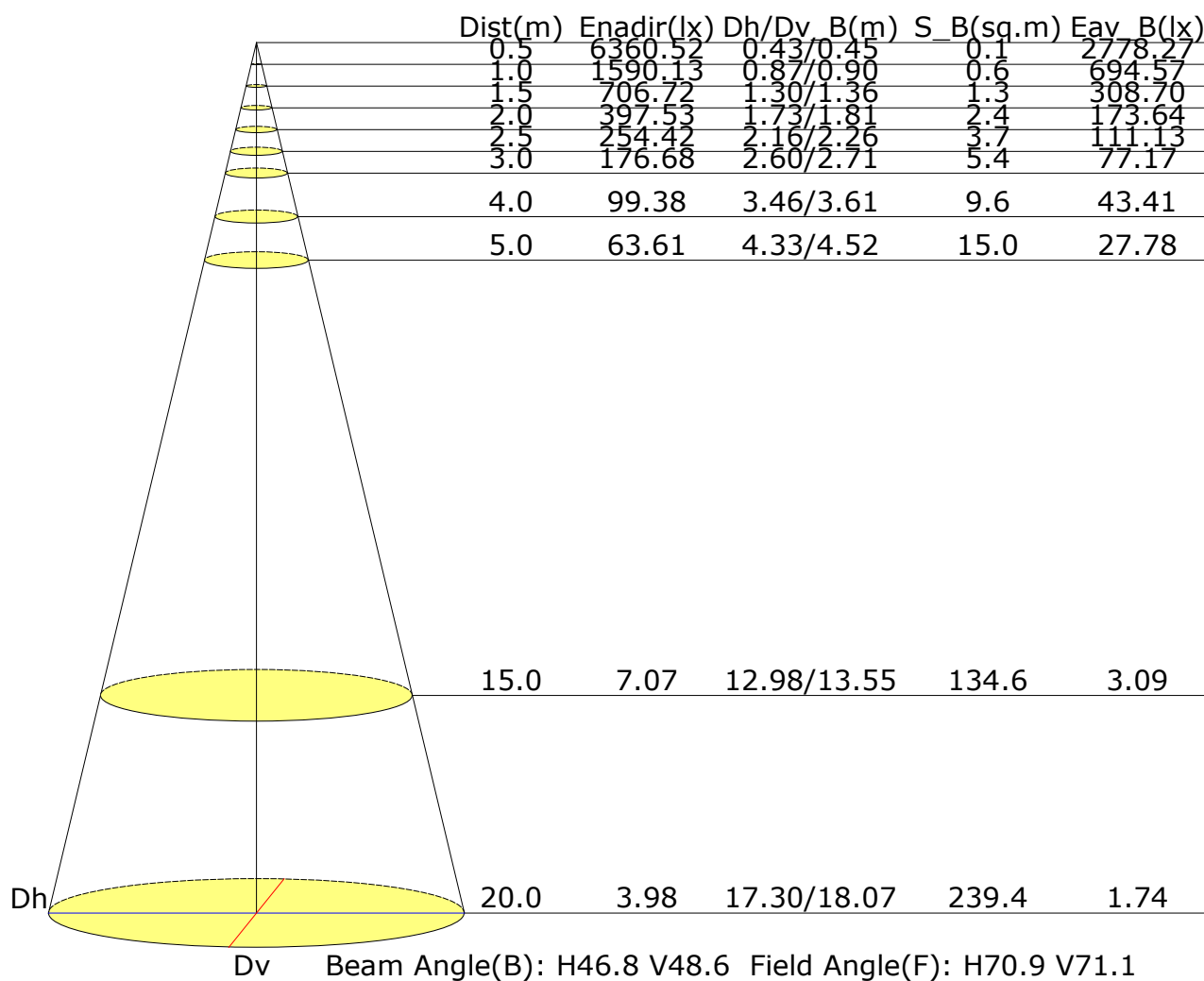
Mounting Height: 10.0m Max Lux(100%): 16.1 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.6 lx
(20%): 3.2 lx	(50%): 8.1 lx
(100%): 16.1 lx	

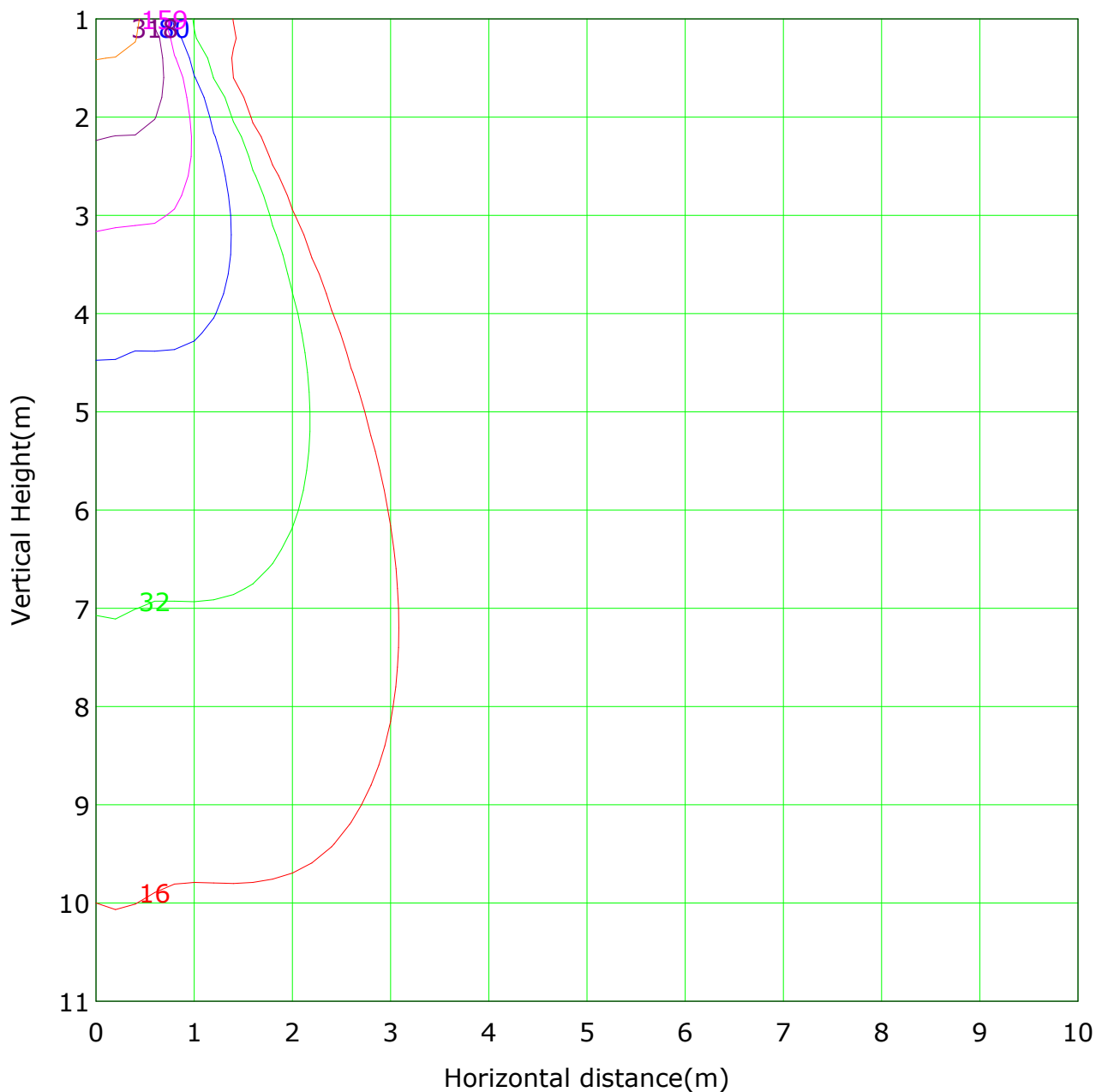
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



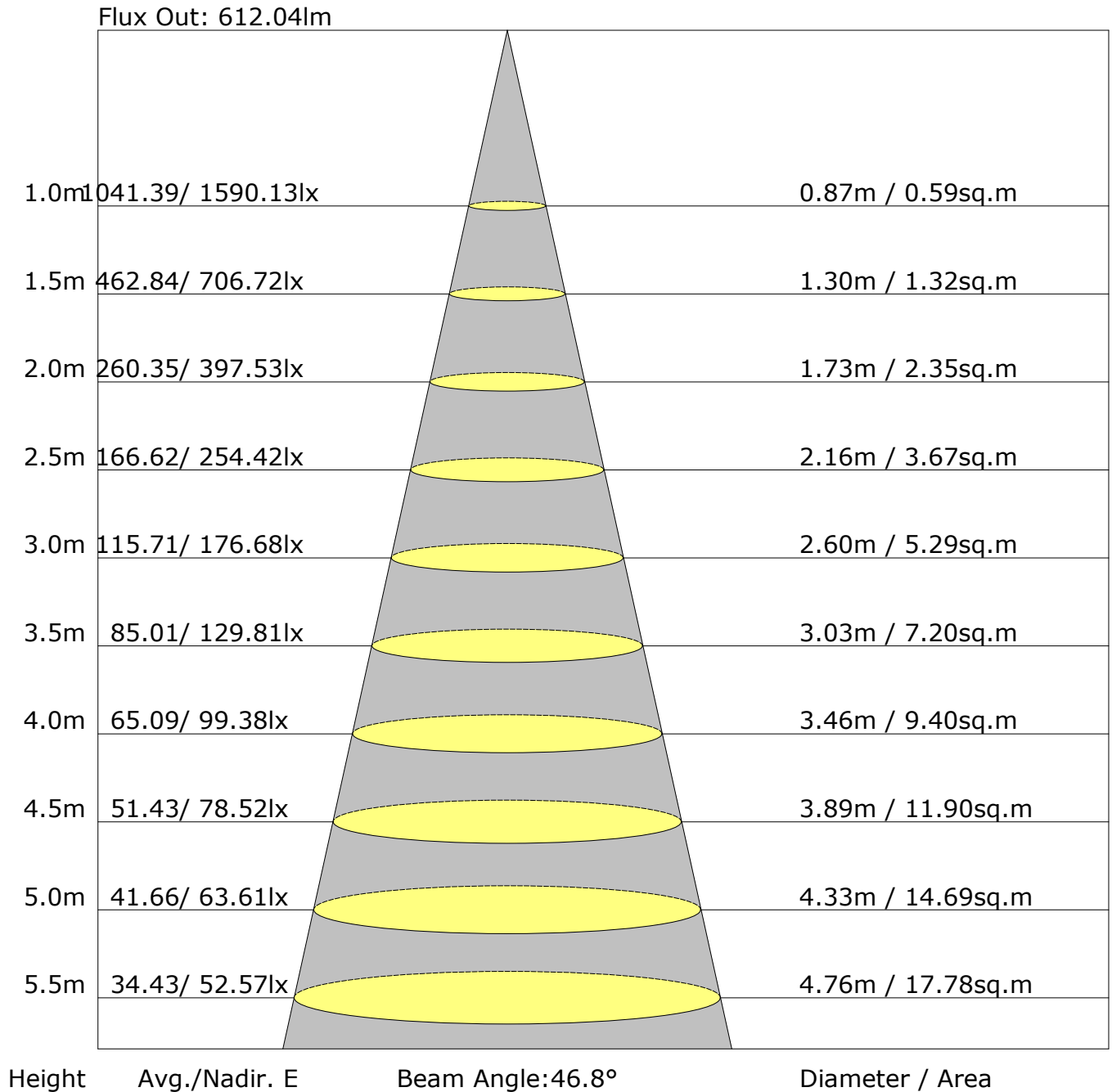
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1590.1 lx
— (1%): 15.9 lx — (2%): 31.8 lx
— (5%): 79.5 lx — (10%): 159.0 lx
— (20%): 318.0 lx — (50%): 795.1 lx
— (100%):1590.1 lx

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 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	21.2	22.0	21.4	22.2	22.4	21.4	22.2	21.6	22.4	22.6
3H	21.5	22.3	21.8	22.6	22.8	21.9	22.6	22.2	22.9	23.1
4H	21.5	22.2	21.8	22.5	22.7	21.8	22.5	22.1	22.8	23.1
6H	21.4	22.1	21.7	22.4	22.7	21.7	22.4	22.1	22.7	23.0
8H	21.4	22.0	21.7	22.3	22.6	21.7	22.4	22.0	22.6	23.0
12H	21.3	21.9	21.7	22.3	22.6	21.7	22.3	22.0	22.6	22.9
X=4H Y=2H	21.5	22.2	21.8	22.5	22.8	21.7	22.4	22.0	22.7	22.9
3H	21.9	22.5	22.3	22.8	23.1	22.2	22.8	22.6	23.1	23.5
4H	21.8	22.4	22.2	22.7	23.1	22.1	22.7	22.5	23.0	23.4
6H	21.7	22.2	22.2	22.6	23.0	22.1	22.5	22.5	22.9	23.3
8H	21.7	22.2	22.1	22.5	23.0	22.0	22.5	22.4	22.9	23.3
12H	21.7	22.1	22.1	22.5	22.9	22.0	22.4	22.4	22.8	23.2
X=8H Y=4H	21.7	22.2	22.2	22.6	23.0	22.0	22.5	22.5	22.9	23.3
6H	21.7	22.0	22.1	22.4	22.9	22.0	22.3	22.4	22.7	23.2
8H	21.6	21.9	22.1	22.4	22.8	21.9	22.2	22.4	22.7	23.1
12H	21.6	21.8	22.1	22.3	22.8	21.9	22.1	22.4	22.6	23.1
X=12H Y=4H	21.7	22.1	22.1	22.5	22.9	22.0	22.4	22.4	22.8	23.2
6H	21.6	21.9	22.1	22.4	22.8	21.9	22.2	22.4	22.7	23.1
8H	21.6	21.8	22.1	22.3	22.8	21.9	22.1	22.4	22.6	23.1
Variations with the observer position at spacings:										
S=1.0H	+2.3/-1.0					+2.1/-0.9				
S=1.5H	+4.0/-1.9					+3.9/-1.4				
S=2.0H	+5.6/-3.9					+5.4/-3.3				

Calculate in accordance with CIE Pub.117. The table is revised with 1055lm ($8\log(F/F_0) = 0.2$).

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Test Lab:
Test Type: TYPE C
Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	553	52.4
	FL (0°-30°)	435	41.2
	FM (30°-60°)	105	9.9
	FH (60°-80°)	13	1.3
	FVH (80°-90°)	0	0.0
	BACK LIGHT	502	47.6
	BL (0°-30°)	381	36.1
	BM (30°-60°)	105	10.0
	BH (60°-80°)	16	1.5
	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: 3.010 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	1582.8	1.5	1.5	0.14	0.14
1.0-2.0	1555.0	4.5	6.0	0.42	0.57
2.0-3.0	1510.8	7.2	13.2	0.69	1.25
3.0-4.0	1468.2	9.8	23.0	0.93	2.18
4.0-5.0	1438.4	12.4	35.4	1.17	3.36
5.0-6.0	1423.6	15.0	50.4	1.42	4.78
6.0-7.0	1416.6	17.6	68.0	1.67	6.44
7.0-8.0	1410.8	20.2	88.2	1.91	8.36
8.0-9.0	1403.4	22.7	110.9	2.16	10.51
9.0-10.0	1392.3	25.2	136.1	2.39	12.90
10.0-11.0	1377.9	27.5	163.6	2.61	15.51
11.0-12.0	1360.0	29.7	193.4	2.82	18.33
12.0-13.0	1336.5	31.7	225.1	3.01	21.34
13.0-14.0	1307.6	33.5	258.6	3.17	24.51
14.0-15.0	1274.1	35.0	293.5	3.32	27.83
15.0-16.0	1236.3	36.2	329.8	3.43	31.26
16.0-17.0	1195.4	37.2	367.0	3.53	34.79
17.0-18.0	1152.7	38.0	405.0	3.60	38.39
18.0-19.0	1108.4	38.6	443.6	3.66	42.05
19.0-20.0	1061.4	38.9	482.4	3.68	45.73
20.0-21.0	1010.6	38.8	521.3	3.68	49.41
21.0-22.0	956.9	38.5	559.7	3.65	53.06
22.0-23.0	901.4	37.8	597.5	3.59	56.64
23.0-24.0	843.9	36.9	634.4	3.50	60.14
24.0-25.0	783.1	35.6	670.1	3.38	63.52
25.0-26.0	717.8	33.9	703.9	3.21	66.73
26.0-27.0	649.1	31.8	735.7	3.01	69.74
27.0-28.0	578.4	29.3	765.0	2.78	72.52
28.0-29.0	507.5	26.6	791.5	2.52	75.03
29.0-30.0	440.3	23.8	815.3	2.25	77.29
30.0-31.0	378.5	21.1	836.4	2.00	79.28
31.0-32.0	321.5	18.4	854.8	1.75	81.03
32.0-33.0	271.9	16.0	870.8	1.52	82.55
33.0-34.0	229.8	13.9	884.7	1.32	83.87
34.0-35.0	192.5	12.0	896.7	1.13	85.00
35.0-36.0	160.6	10.2	906.9	0.97	85.97

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: 3.010 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	133.7	8.7	915.6	0.83	86.80
37.0-38.0	111.8	7.5	923.1	0.71	87.50
38.0-39.0	95.2	6.5	929.6	0.62	88.12
39.0-40.0	83.0	5.8	935.4	0.55	88.67
40.0-41.0	74.2	5.3	940.7	0.50	89.17
41.0-42.0	68.2	5.0	945.6	0.47	89.64
42.0-43.0	64.2	4.8	950.4	0.45	90.09
43.0-44.0	61.4	4.6	955.0	0.44	90.53
44.0-45.0	59.5	4.6	959.6	0.43	90.96
45.0-46.0	58.5	4.6	964.2	0.43	91.40
46.0-47.0	57.8	4.6	968.8	0.44	91.83
47.0-48.0	57.3	4.6	973.4	0.44	92.27
48.0-49.0	56.8	4.7	978.1	0.44	92.71
49.0-50.0	56.2	4.7	982.7	0.44	93.16
50.0-51.0	55.3	4.7	987.4	0.44	93.60
51.0-52.0	53.9	4.6	992.0	0.44	94.04
52.0-53.0	52.2	4.5	996.6	0.43	94.47
53.0-54.0	50.4	4.4	1001.0	0.42	94.89
54.0-55.0	48.8	4.4	1005.4	0.41	95.30
55.0-56.0	47.1	4.3	1009.6	0.40	95.71
56.0-57.0	45.3	4.1	1013.8	0.39	96.10
57.0-58.0	43.7	4.0	1017.8	0.38	96.48
58.0-59.0	41.8	3.9	1021.7	0.37	96.85
59.0-60.0	40.0	3.8	1025.5	0.36	97.21
60.0-61.0	38.1	3.6	1029.1	0.35	97.56
61.0-62.0	35.8	3.5	1032.6	0.33	97.88
62.0-63.0	33.4	3.2	1035.8	0.31	98.19
63.0-64.0	30.7	3.0	1038.9	0.29	98.48
64.0-65.0	27.9	2.8	1041.6	0.26	98.74
65.0-66.0	25.1	2.5	1044.1	0.24	98.98
66.0-67.0	22.3	2.2	1046.4	0.21	99.19
67.0-68.0	19.6	2.0	1048.4	0.19	99.38
68.0-69.0	16.7	1.7	1050.1	0.16	99.54
69.0-70.0	13.8	1.4	1051.5	0.13	99.67
70.0-71.0	11.0	1.1	1052.6	0.11	99.78
71.0-72.0	8.2	0.9	1053.5	0.08	99.86

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1590.1	1590.1								
G1.0	1612.9	1538.2								
G2.0	1604.6	1464.3								
G3.0	1575.6	1398.8								
G4.0	1547.5	1351.0								
G5.0	1536.5	1318.5								
G6.0	1541.6	1297.7								
G7.0	1549.1	1278.0								
G8.0	1558.3	1257.6								
G9.0	1564.9	1232.8								
G10.0	1566.1	1205.3								
G11.0	1563.9	1176.5								
G12.0	1555.4	1144.2								
G13.0	1539.4	1106.8								
G14.0	1515.1	1069.3								
G15.0	1480.7	1031.5								
G16.0	1440.1	992.9								
G17.0	1391.8	956.7								
G18.0	1338.7	923.5								
G19.0	1280.2	891.1								
G20.0	1214.5	859.8								
G21.0	1144.1	824.1								
G22.0	1069.6	789.7								
G23.0	990.6	755.8								
G24.0	910.9	718.1								
G25.0	829.1	674.3								
G26.0	744.1	623.7								
G27.0	658.2	570.2								
G28.0	570.2	514.8								
G29.0	488.0	457.0								
G30.0	416.2	400.1								
G31.0	351.6	345.9								
G32.0	294.1	294.3								
G33.0	248.2	251.2								
G34.0	207.5	212.3								
G35.0	173.1	177.2								
G36.0	145.2	146.8								

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Test Lab:

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Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	121.8	121.2								
G38.0	103.3	101.0								
G39.0	89.3	87.1								
G40.0	79.4	76.3								
G41.0	72.5	68.5								
G42.0	68.0	63.7								
G43.0	64.4	60.8								
G44.0	61.7	58.5								
G45.0	60.1	57.7								
G46.0	58.8	57.3								
G47.0	57.8	57.2								
G48.0	57.3	56.8								
G49.0	56.6	56.5								
G50.0	55.5	56.2								
G51.0	54.0	55.3								
G52.0	52.1	54.0								
G53.0	49.7	52.8								
G54.0	47.4	51.7								
G55.0	45.6	50.3								
G56.0	43.4	49.0								
G57.0	41.6	47.4								
G58.0	39.6	45.9								
G59.0	37.5	44.3								
G60.0	35.4	42.9								
G61.0	32.9	41.3								
G62.0	30.2	39.0								
G63.0	27.6	36.6								
G64.0	24.6	33.9								
G65.0	21.9	31.1								
G66.0	19.4	28.1								
G67.0	17.0	24.8								
G68.0	14.6	21.9								
G69.0	12.0	18.5								
G70.0	9.6	15.2								
G71.0	7.4	11.9								
G72.0	5.1	8.6								
G73.0	3.3	5.4								

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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Unit: cd

Inspector: