

Report No.:

Test Time: 2024-10-13 17:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 内调75 24D

Luminous Width (mm): -70

Current: 0.141 A

Power Factor: 0.979

Luminous Length (mm): -70

Voltage: 233.2 V

Power: 32.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3653.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H40.4

Vertical Diffuse Angle(50%): V40.4

Luminaire Efficacy Rating (LER): 113.16

Max. Intensity: 7684.32 cd

S/MH(C0/C180): 0.67

Total Rated Lamp Lumens: 3653.3 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 7668.1 cd

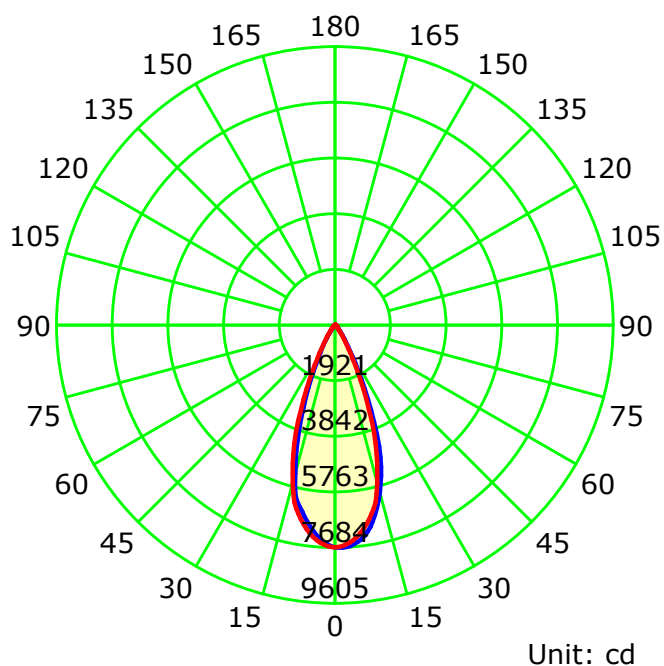
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.67

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

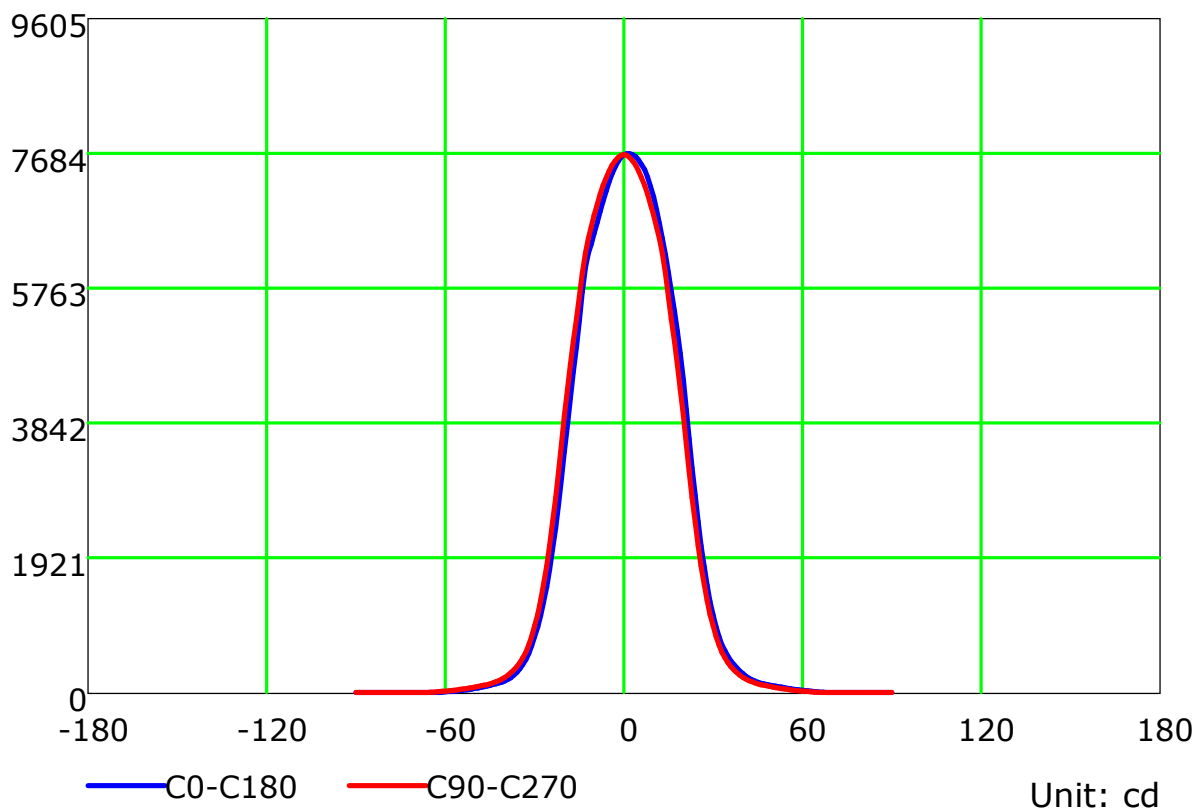
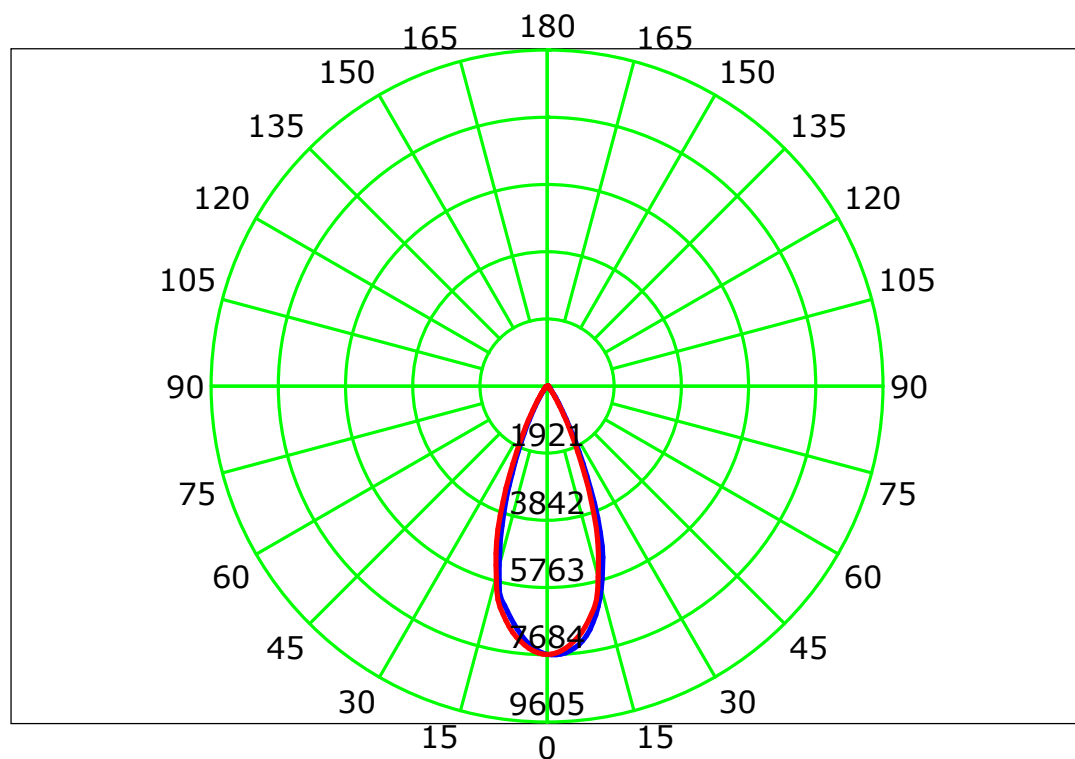
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

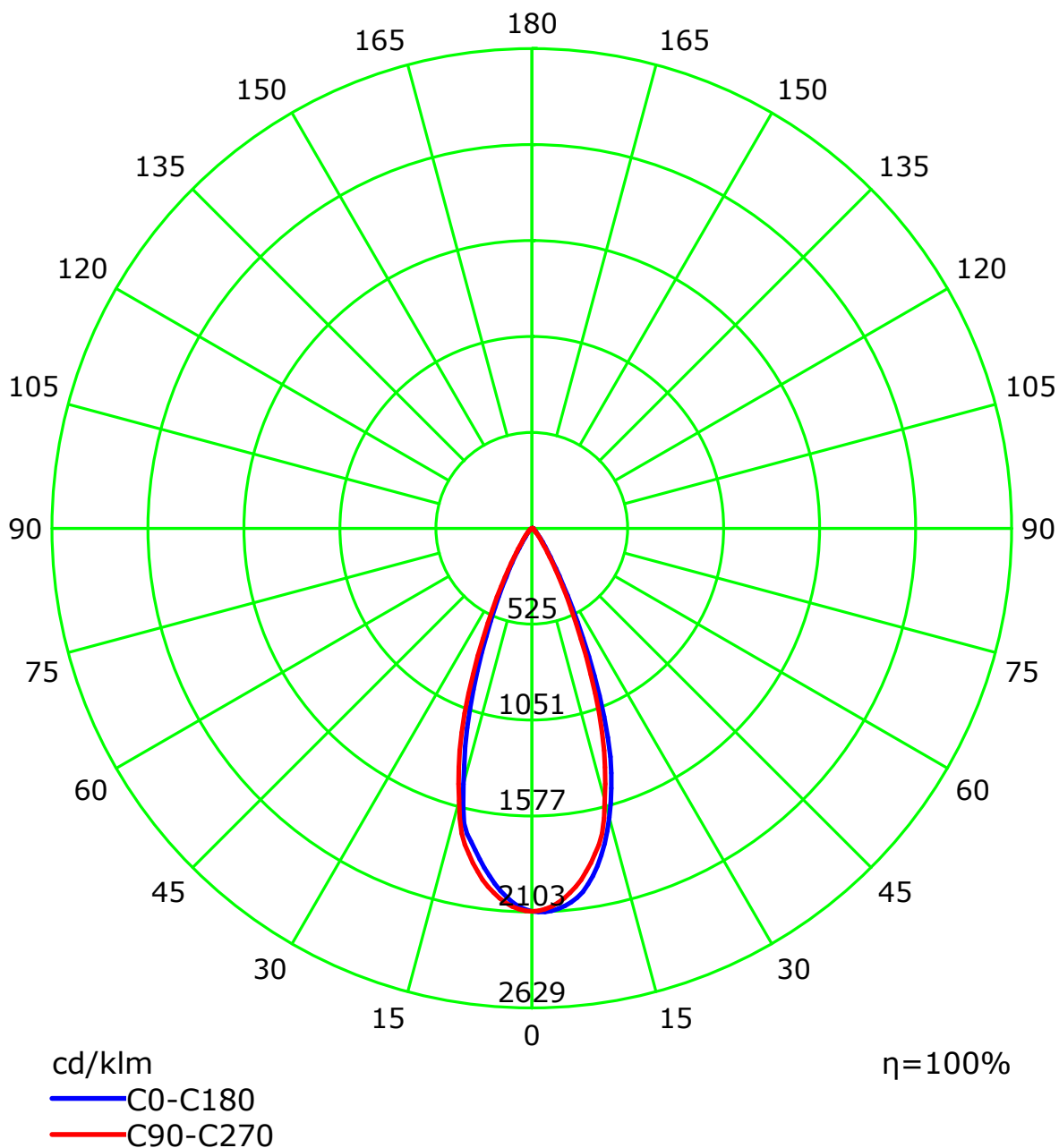
Luminous Intensity Distribution Curve



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: 3.328 m
Humidity:
Inspector:

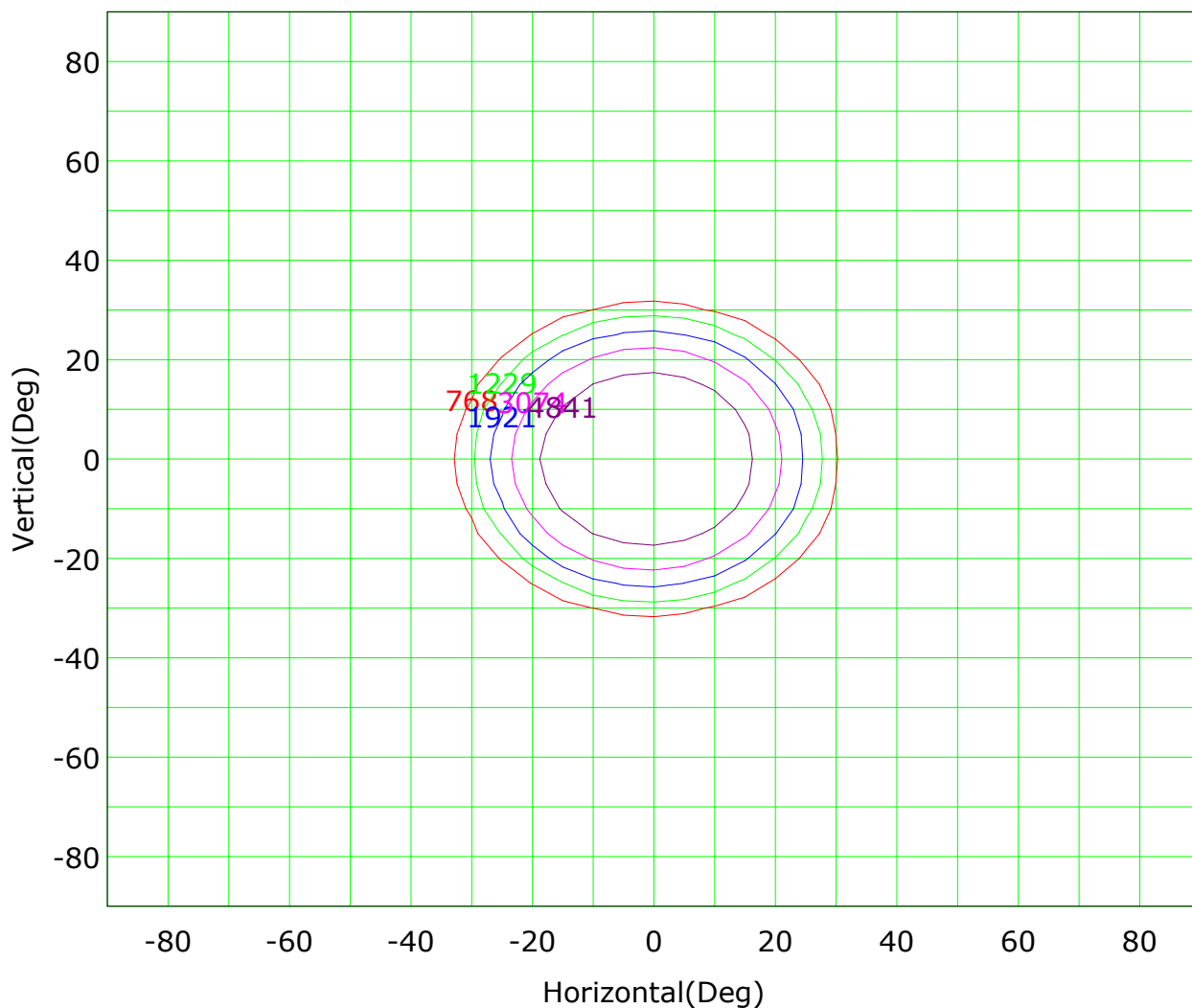
Luminous Intensity Distribution Curve(cd/klm)



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: 3.328 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 7684 cd

(10%): 768 cd	(16%): 1229 cd
(25%): 1921 cd	(40%): 3074 cd
(63%): 4841 cd	(100%): 7684 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

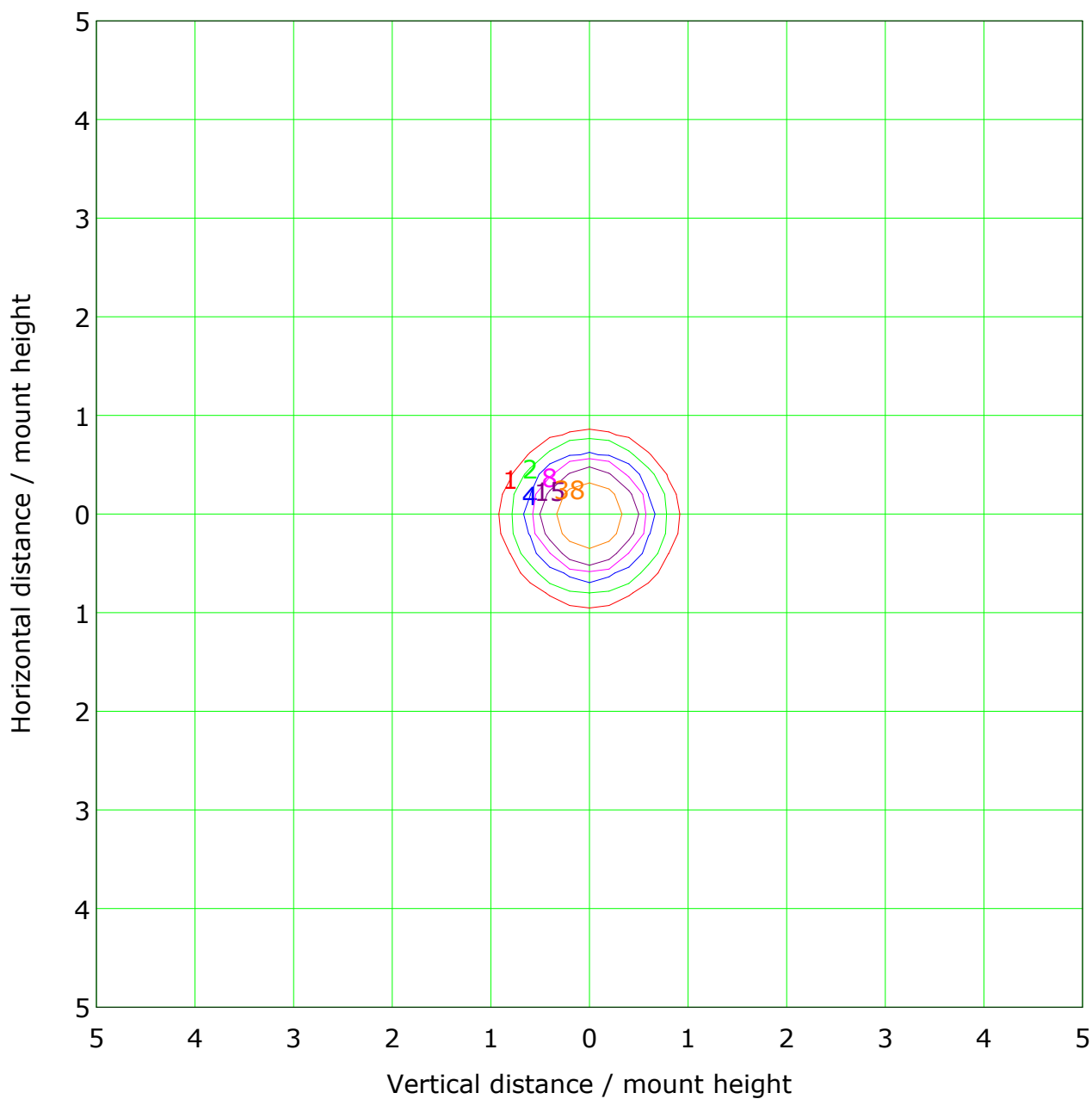
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



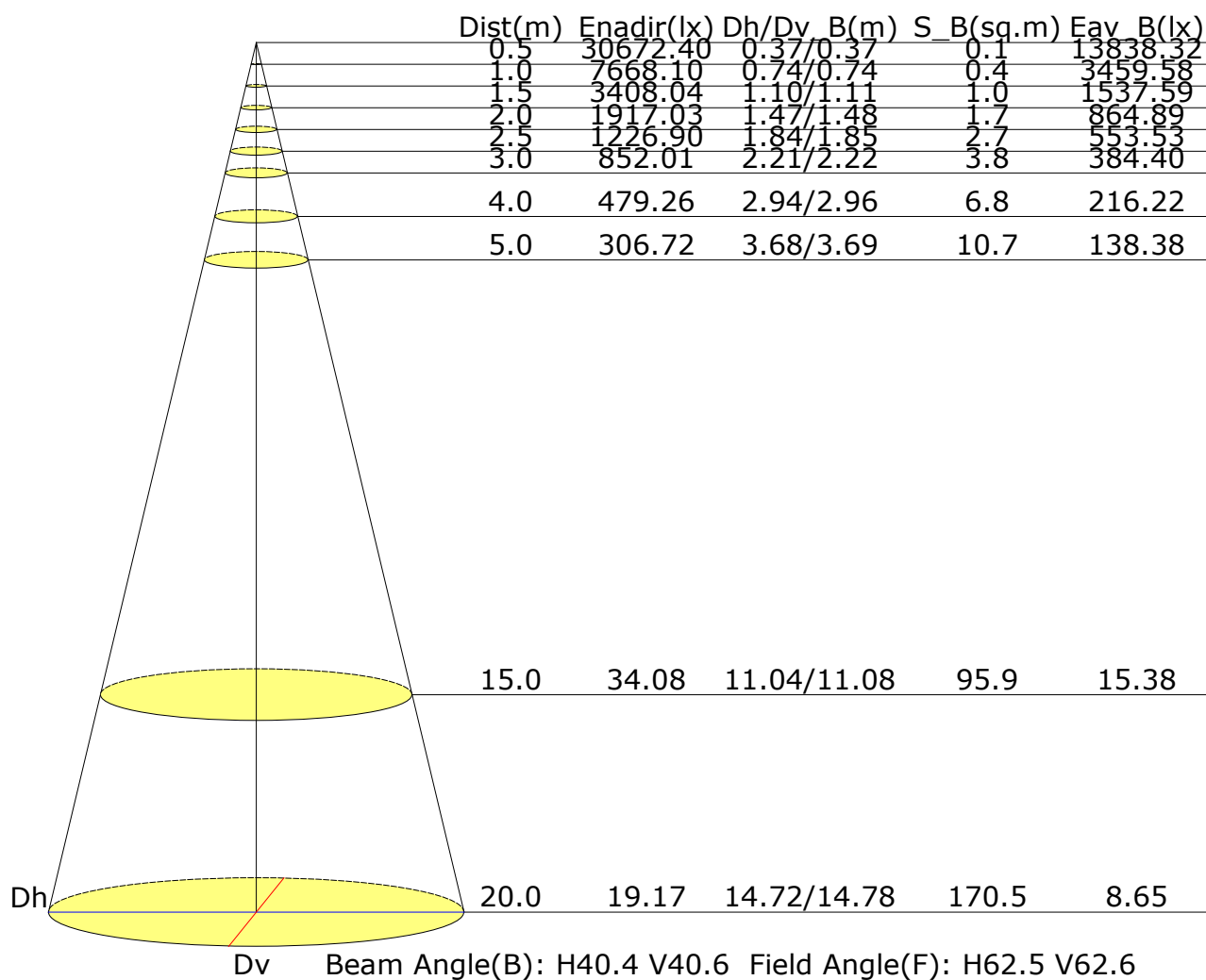
Mounting Height: 10.0m Max Lux(100%): 76.8 lx

(1%): 0.8 lx	(2%): 1.5 lx
(5%): 3.8 lx	(10%): 7.7 lx
(20%): 15.4 lx	(50%): 38.4 lx
(100%): 76.8 lx	

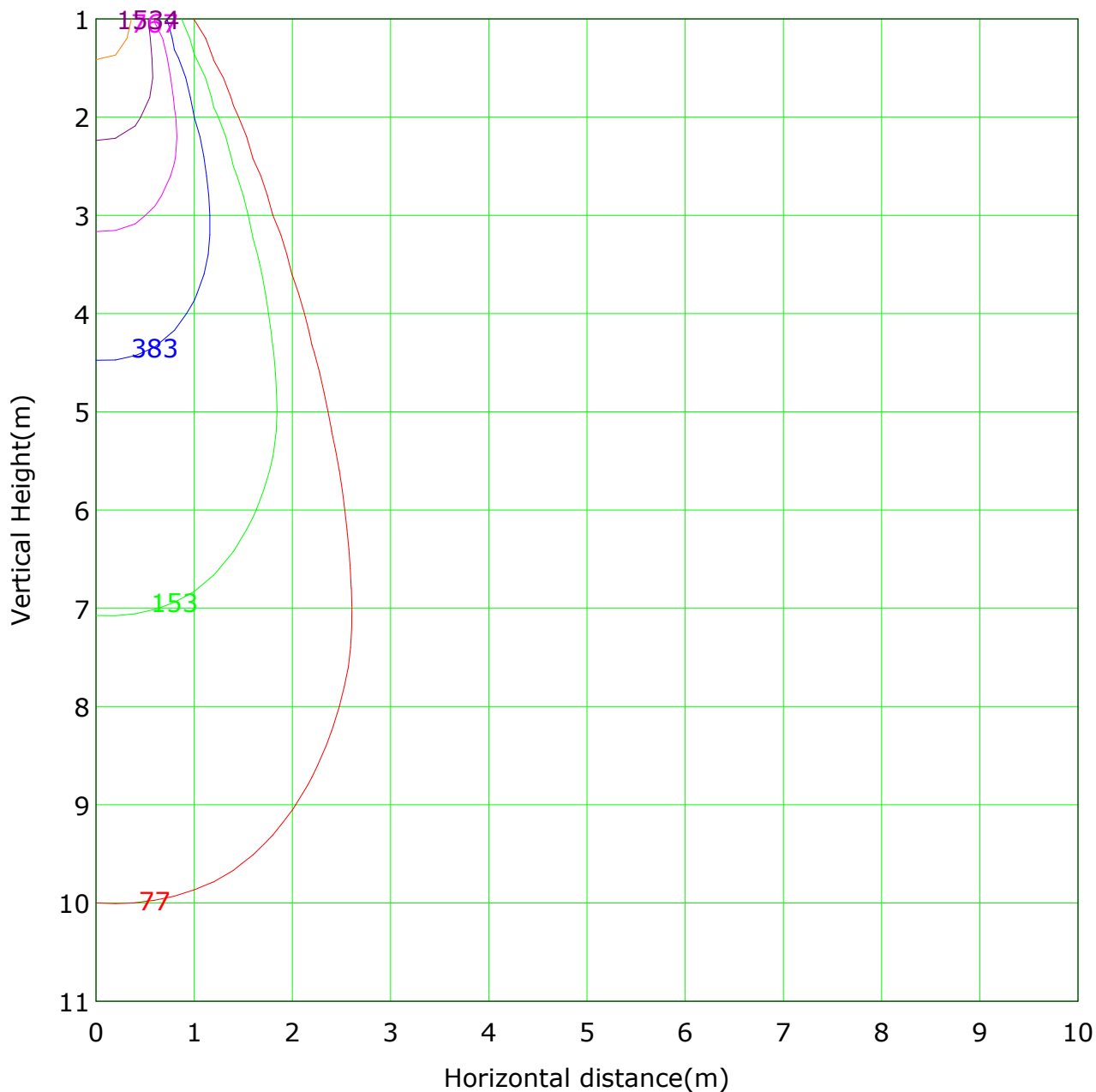
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



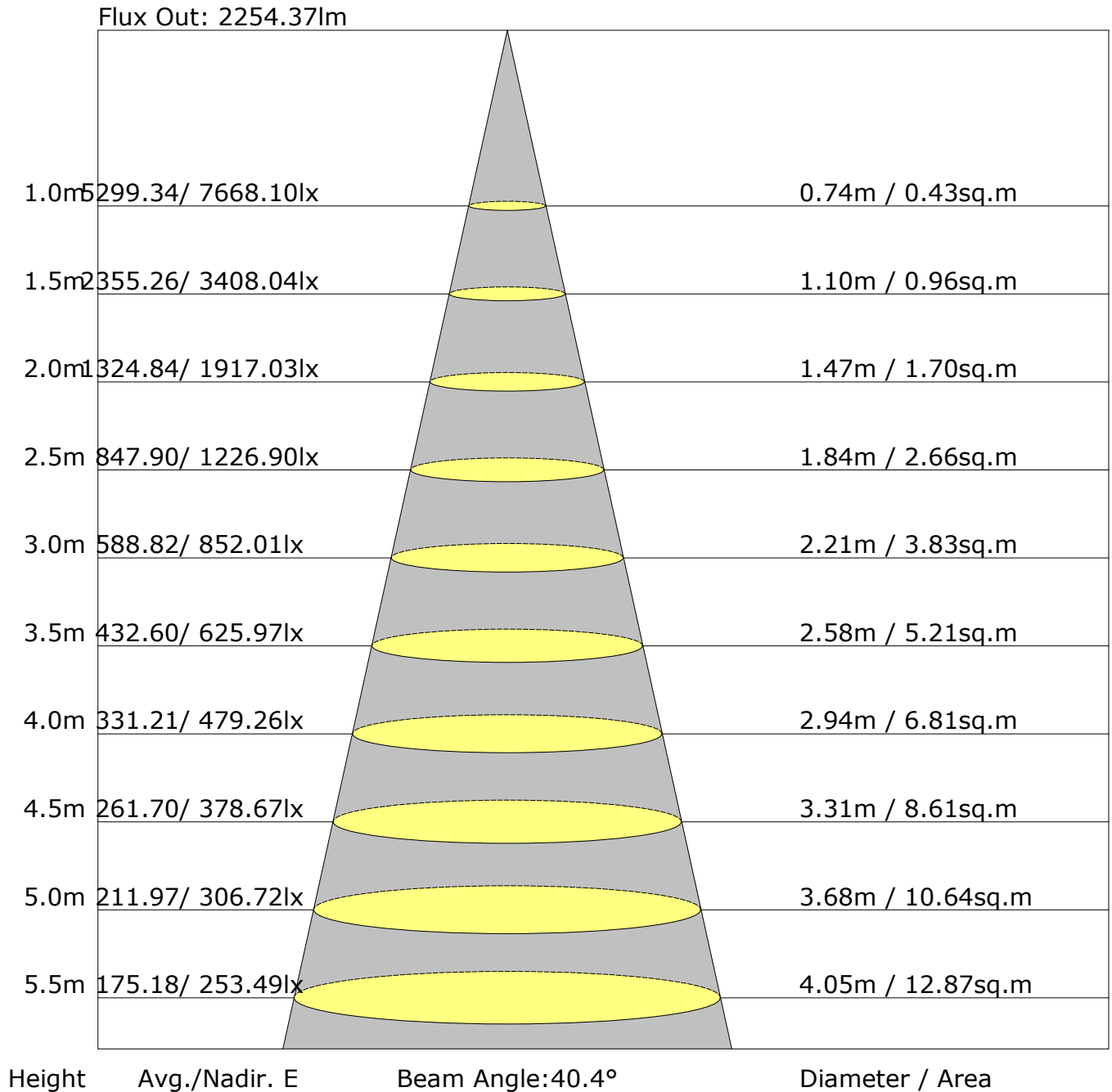
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 7668.1 lx
— (1%): 76.7 lx — (2%): 153.4 lx
— (5%): 383.4 lx — (10%): 766.8 lx
— (20%): 1533.6 lx — (50%): 3834.1 lx
— (100%): 7668.1 lx

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: 3.328 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 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: 3.328 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	19.5	20.2	19.8	20.4	20.6	18.7	19.4	18.9	19.6	19.8
3H	19.4	20.0	19.7	20.3	20.5	18.6	19.2	18.8	19.5	19.7
4H	19.3	19.9	19.6	20.2	20.4	18.5	19.1	18.8	19.4	19.6
6H	19.2	19.8	19.6	20.1	20.4	18.4	19.0	18.7	19.3	19.6
8H	19.2	19.8	19.5	20.0	20.3	18.4	18.9	18.7	19.2	19.5
12H	19.2	19.7	19.5	20.0	20.3	18.3	18.9	18.7	19.2	19.5
X=4H Y=2H	19.4	20.0	19.7	20.2	20.5	18.6	19.2	18.9	19.4	19.7
3H	19.2	19.8	19.6	20.1	20.4	18.4	19.0	18.8	19.3	19.6
4H	19.1	19.6	19.5	20.0	20.3	18.3	18.8	18.7	19.1	19.5
6H	19.1	19.5	19.5	19.8	20.2	18.3	18.7	18.7	19.0	19.4
8H	19.0	19.4	19.4	19.8	20.2	18.2	18.6	18.6	19.0	19.4
12H	19.0	19.3	19.4	19.7	20.1	18.2	18.5	18.6	18.9	19.3
X=8H Y=4H	19.0	19.4	19.4	19.8	20.2	18.2	18.6	18.6	19.0	19.4
6H	18.9	19.2	19.4	19.6	20.1	18.1	18.4	18.6	18.8	19.3
8H	18.9	19.1	19.3	19.6	20.1	18.1	18.3	18.5	18.8	19.3
12H	18.8	19.1	19.3	19.5	20.0	18.0	18.3	18.5	18.7	19.2
X=12H Y=4H	19.0	19.3	19.4	19.7	20.1	18.2	18.5	18.6	18.9	19.3
6H	18.9	19.1	19.3	19.6	20.1	18.1	18.3	18.5	18.8	19.3
8H	18.8	19.1	19.3	19.5	20.0	18.0	18.3	18.5	18.7	19.2
Variations with the observer position at spacings:										
S=1.0H	+4.2/-4.4					+4.1/-5.2				
S=1.5H	+6.8/-9.3					+6.7/-10.9				
S=2.0H	+8.7/-31.0					+8.7/-32.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3653lm ($8\log(F/F_0) = 4.5$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1920	52.6
	FL (0°-30°)	1673	45.8
	FM (30°-60°)	242	6.6
	FH (60°-80°)	5	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1733	47.4
	BL (0°-30°)	1536	42.0
	BM (30°-60°)	195	5.3
	BH (60°-80°)	2	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: 3.328 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	7663.1	7.3	7.3	0.20	0.20
1.0-2.0	7643.8	21.9	29.3	0.60	0.80
2.0-3.0	7605.5	36.4	65.7	1.00	1.80
3.0-4.0	7549.7	50.5	116.2	1.38	3.18
4.0-5.0	7477.4	64.3	180.5	1.76	4.94
5.0-6.0	7387.9	77.7	258.2	2.13	7.07
6.0-7.0	7284.8	90.4	348.6	2.48	9.54
7.0-8.0	7168.2	102.6	451.2	2.81	12.35
8.0-9.0	7033.6	114.0	565.2	3.12	15.47
9.0-10.0	6883.0	124.6	689.8	3.41	18.88
10.0-11.0	6721.6	134.3	824.1	3.68	22.56
11.0-12.0	6556.7	143.3	967.5	3.92	26.48
12.0-13.0	6371.9	151.2	1118.7	4.14	30.62
13.0-14.0	6122.3	156.7	1275.4	4.29	34.91
14.0-15.0	5811.9	159.6	1435.0	4.37	39.28
15.0-16.0	5487.4	160.8	1595.8	4.40	43.68
16.0-17.0	5166.7	160.9	1756.7	4.40	48.09
17.0-18.0	4842.0	159.7	1916.4	4.37	52.46
18.0-19.0	4503.2	156.7	2073.1	4.29	56.75
19.0-20.0	4137.0	151.4	2224.5	4.15	60.89
20.0-21.0	3744.0	143.8	2368.3	3.94	64.83
21.0-22.0	3346.9	134.5	2502.8	3.68	68.51
22.0-23.0	2963.0	124.3	2627.2	3.40	71.91
23.0-24.0	2599.6	113.7	2740.9	3.11	75.02
24.0-25.0	2260.8	102.8	2843.7	2.81	77.84
25.0-26.0	1950.1	92.1	2935.7	2.52	80.36
26.0-27.0	1673.0	81.9	3017.6	2.24	82.60
27.0-28.0	1429.3	72.4	3090.0	1.98	84.58
28.0-29.0	1216.4	63.6	3153.6	1.74	86.32
29.0-30.0	1033.5	55.8	3209.4	1.53	87.85
30.0-31.0	876.1	48.8	3258.2	1.33	89.18
31.0-32.0	741.4	42.5	3300.7	1.16	90.35
32.0-33.0	629.2	37.1	3337.7	1.01	91.36
33.0-34.0	537.3	32.5	3370.3	0.89	92.25
34.0-35.0	462.2	28.7	3399.0	0.79	93.04
35.0-36.0	399.2	25.4	3424.4	0.70	93.73

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: 3.328 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	346.6	22.6	3447.0	0.62	94.35
37.0-38.0	303.2	20.2	3467.2	0.55	94.91
38.0-39.0	266.2	18.2	3485.4	0.50	95.40
39.0-40.0	232.8	16.2	3501.6	0.44	95.85
40.0-41.0	205.1	14.6	3516.3	0.40	96.25
41.0-42.0	183.3	13.3	3529.6	0.36	96.61
42.0-43.0	164.2	12.2	3541.7	0.33	96.95
43.0-44.0	147.4	11.1	3552.9	0.30	97.25
44.0-45.0	132.8	10.2	3563.1	0.28	97.53
45.0-46.0	120.0	9.4	3572.5	0.26	97.79
46.0-47.0	109.7	8.7	3581.2	0.24	98.03
47.0-48.0	100.7	8.1	3589.3	0.22	98.25
48.0-49.0	91.9	7.6	3596.9	0.21	98.45
49.0-50.0	83.8	7.0	3603.9	0.19	98.65
50.0-51.0	76.0	6.4	3610.3	0.18	98.82
51.0-52.0	68.9	5.9	3616.2	0.16	98.98
52.0-53.0	62.3	5.4	3621.6	0.15	99.13
53.0-54.0	55.8	4.9	3626.5	0.13	99.27
54.0-55.0	49.2	4.4	3630.9	0.12	99.39
55.0-56.0	43.0	3.9	3634.8	0.11	99.49
56.0-57.0	37.1	3.4	3638.2	0.09	99.59
57.0-58.0	32.1	3.0	3641.2	0.08	99.67
58.0-59.0	28.1	2.6	3643.8	0.07	99.74
59.0-60.0	23.7	2.2	3646.1	0.06	99.80
60.0-61.0	19.9	1.9	3648.0	0.05	99.85
61.0-62.0	16.2	1.6	3649.5	0.04	99.90
62.0-63.0	11.5	1.1	3650.6	0.03	99.93
63.0-64.0	8.7	0.9	3651.5	0.02	99.95
64.0-65.0	7.2	0.7	3652.2	0.02	99.97
65.0-66.0	5.3	0.5	3652.7	0.01	99.98
66.0-67.0	3.7	0.4	3653.1	0.01	99.99
67.0-68.0	1.9	0.2	3653.3	0.01	100.00
68.0-69.0	0.3	0.0	3653.3	0.00	100.00
69.0-70.0	0.0	0.0	3653.3	0.00	100.00
70.0-71.0	0.0	0.0	3653.3	0.00	100.00
71.0-72.0	0.0	0.0	3653.3	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
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Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	7668.1	7668.1								
G1.0	7683.1	7633.2								
G2.0	7684.3	7574.6								
G3.0	7668.1	7494.8								
G4.0	7639.4	7396.3								
G5.0	7590.8	7282.9								
G6.0	7526.0	7152.0								
G7.0	7452.4	7008.6								
G8.0	7349.0	6862.8								
G9.0	7215.6	6706.9								
G10.0	7064.7	6544.9								
G11.0	6885.2	6391.5								
G12.0	6689.5	6260.6								
G13.0	6476.3	6061.2								
G14.0	6241.9	5709.6								
G15.0	5991.4	5304.5								
G16.0	5723.3	4930.5								
G17.0	5442.8	4570.2								
G18.0	5153.6	4201.2								
G19.0	4838.2	3819.7								
G20.0	4458.0	3432.0								
G21.0	4036.6	3049.3								
G22.0	3617.8	2684.0								
G23.0	3203.9	2346.2								
G24.0	2809.9	2038.3								
G25.0	2438.4	1756.5								
G26.0	2098.1	1507.2								
G27.0	1796.4	1290.3								
G28.0	1532.1	1098.3								
G29.0	1299.0	936.2								
G30.0	1103.3	795.4								
G31.0	937.5	668.2								
G32.0	800.3	559.7								
G33.0	684.4	472.5								
G34.0	594.7	397.7								
G35.0	517.4	339.1								
G36.0	452.5	288.0								

C Plane (°):0.0-180.0: 180.0

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Test Type: TYPE C

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	398.9	246.8								
G38.0	355.3	211.9								
G39.0	309.2	188.2								
G40.0	269.3	164.6								
G41.0	236.9	149.6								
G42.0	209.4	137.1								
G43.0	185.8	124.7								
G44.0	164.6	114.7								
G45.0	149.6	102.2								
G46.0	134.6	93.5								
G47.0	127.2	83.5								
G48.0	117.2	74.8								
G49.0	108.5	67.3								
G50.0	99.7	59.8								
G51.0	93.5	51.1								
G52.0	86.0	44.9								
G53.0	78.5	39.9								
G54.0	71.1	33.7								
G55.0	62.3	29.9								
G56.0	54.8	24.9								
G57.0	48.6	20.0								
G58.0	42.4	17.5								
G59.0	37.4	15.0								
G60.0	32.4	10.0								
G61.0	28.7	8.7								
G62.0	23.7	3.7								
G63.0	18.7	0.0								
G64.0	16.2	0.0								
G65.0	12.5	0.0								
G66.0	8.7	0.0								
G67.0	6.2	0.0								
G68.0	1.3	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:

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Unit: cd

Inspector: