

Report No.:

Test Time: 2024-10-13 10:12

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -37

Voltage: 228.8 V

Power: 8.70 W

Luminous Width (mm): -37

Current: 0.071 A

Power Factor: 0.538

Photometric Results

CIE Class: Direct

Measurement Flux: 444.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H46.4

Vertical Diffuse Angle(50%): V46.4

Luminaire Efficacy Rating (LER): 51.17

Max. Intensity: 676.48 cd

S/MH(C0/C180): 0.77

Total Rated Lamp Lumens: 444.8 lm

Efficiency: 100%

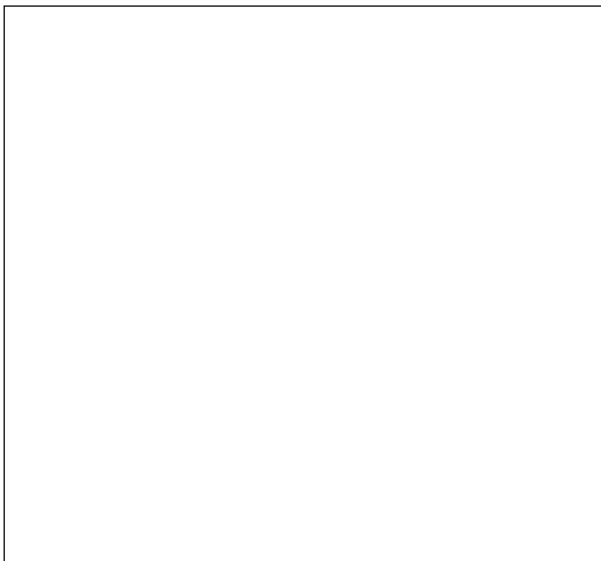
Upward Ratio: 0%

Central Intensity: 643.33 cd

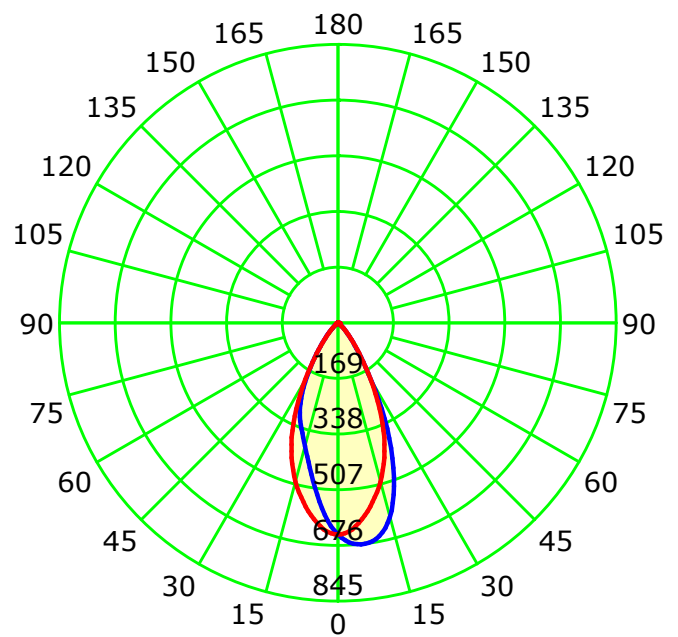
Pos of Max. Intensity: H0 V7

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

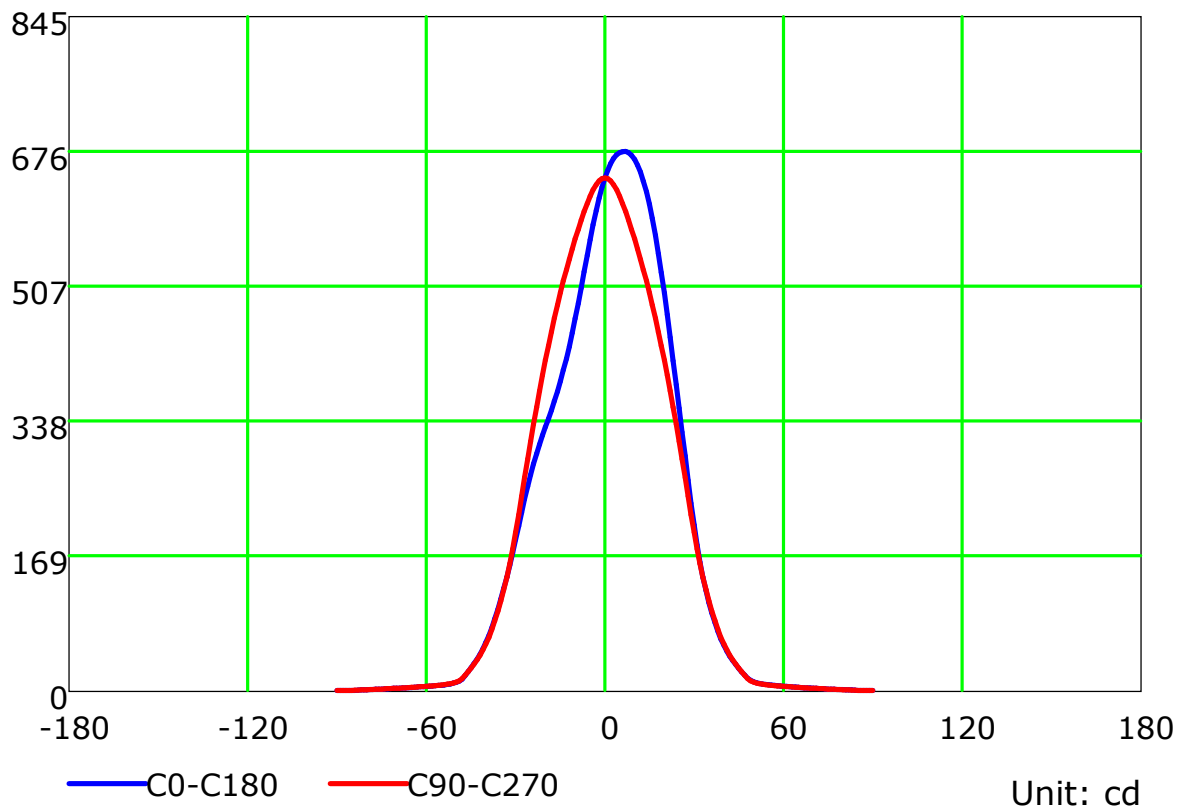
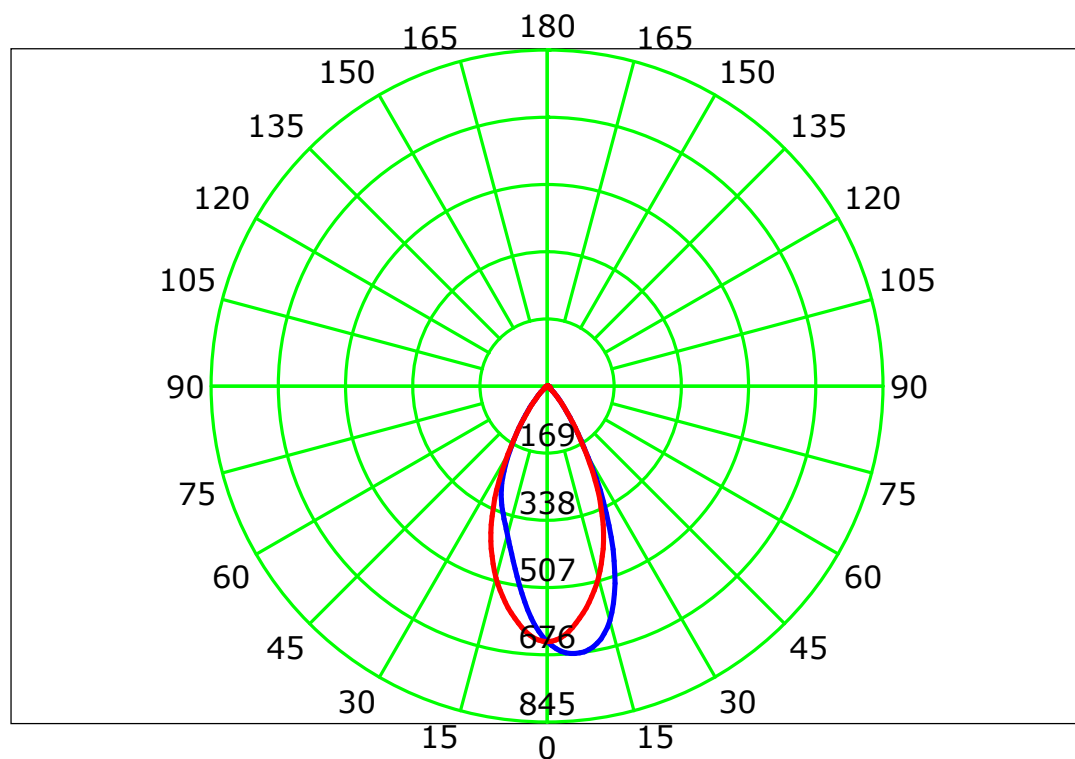
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

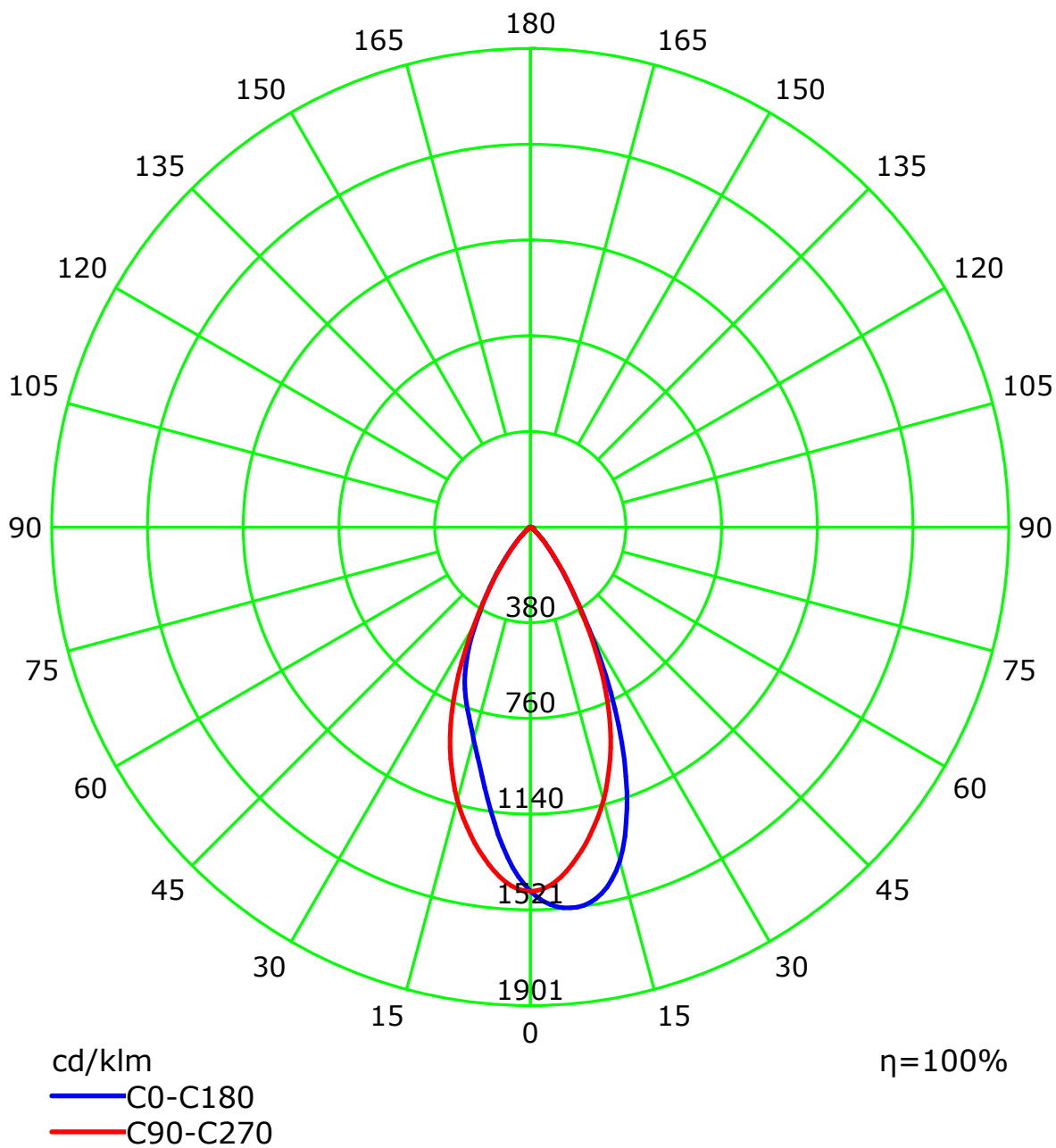
Luminous Intensity Distribution Curve



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:

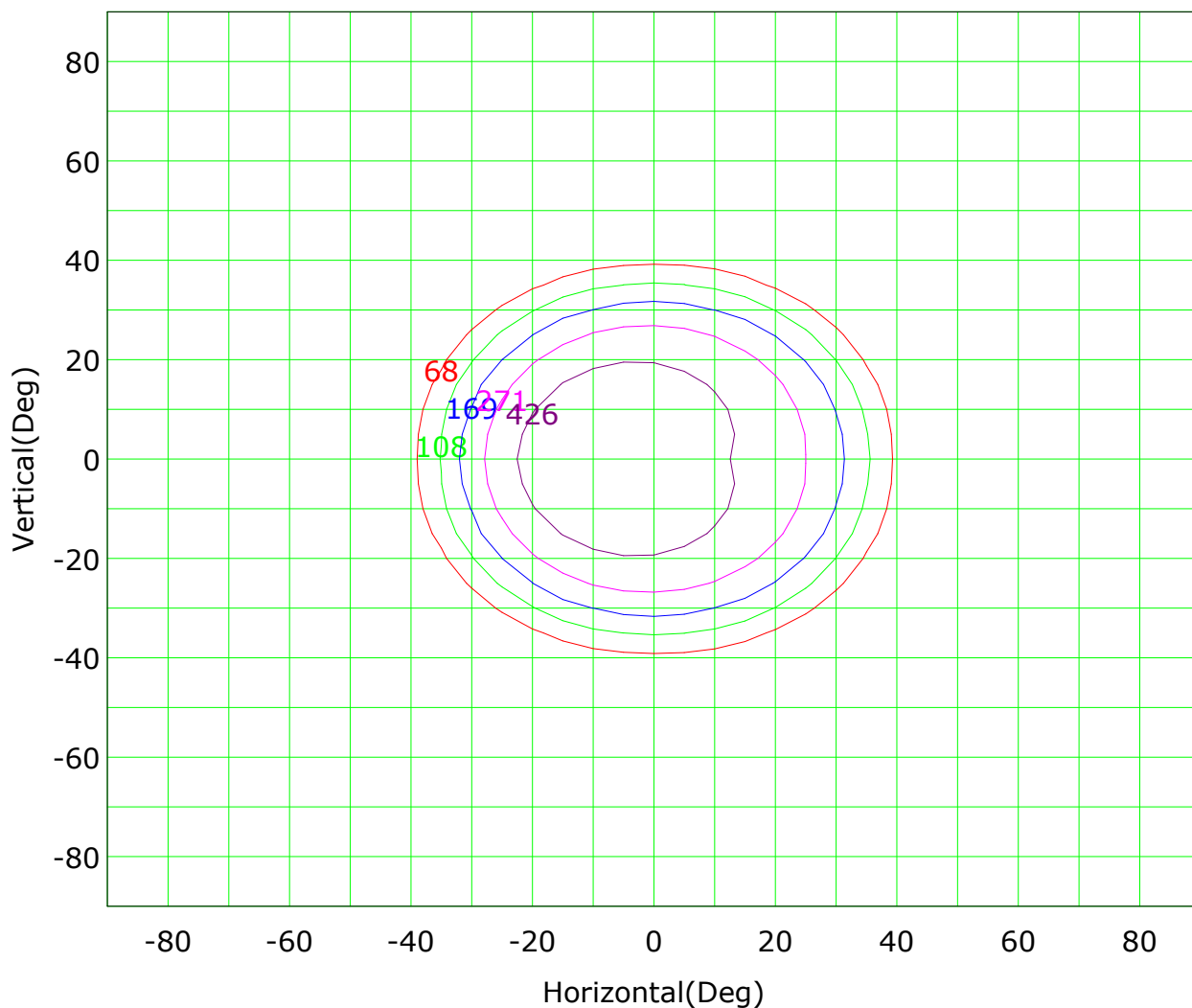
Luminous Intensity Distribution Curve(cd/klm)



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%): 676 cd

(10%):	68 cd	(16%):	108 cd
(25%):	169 cd	(40%):	271 cd
(63%):	426 cd	(100%):	676 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

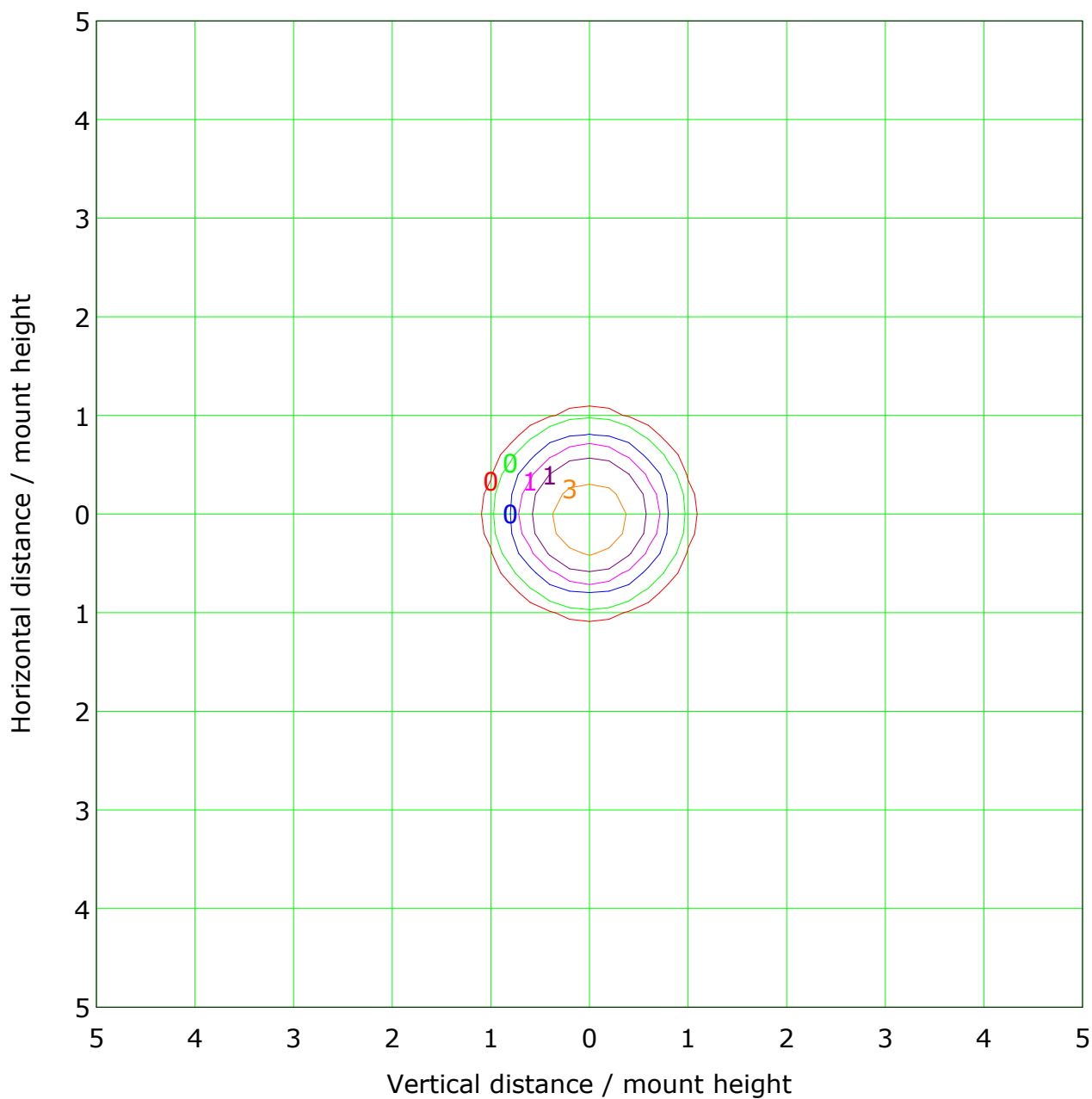
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 6.7 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.7 lx
(20%): 1.3 lx	(50%): 3.3 lx
(100%): 6.7 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

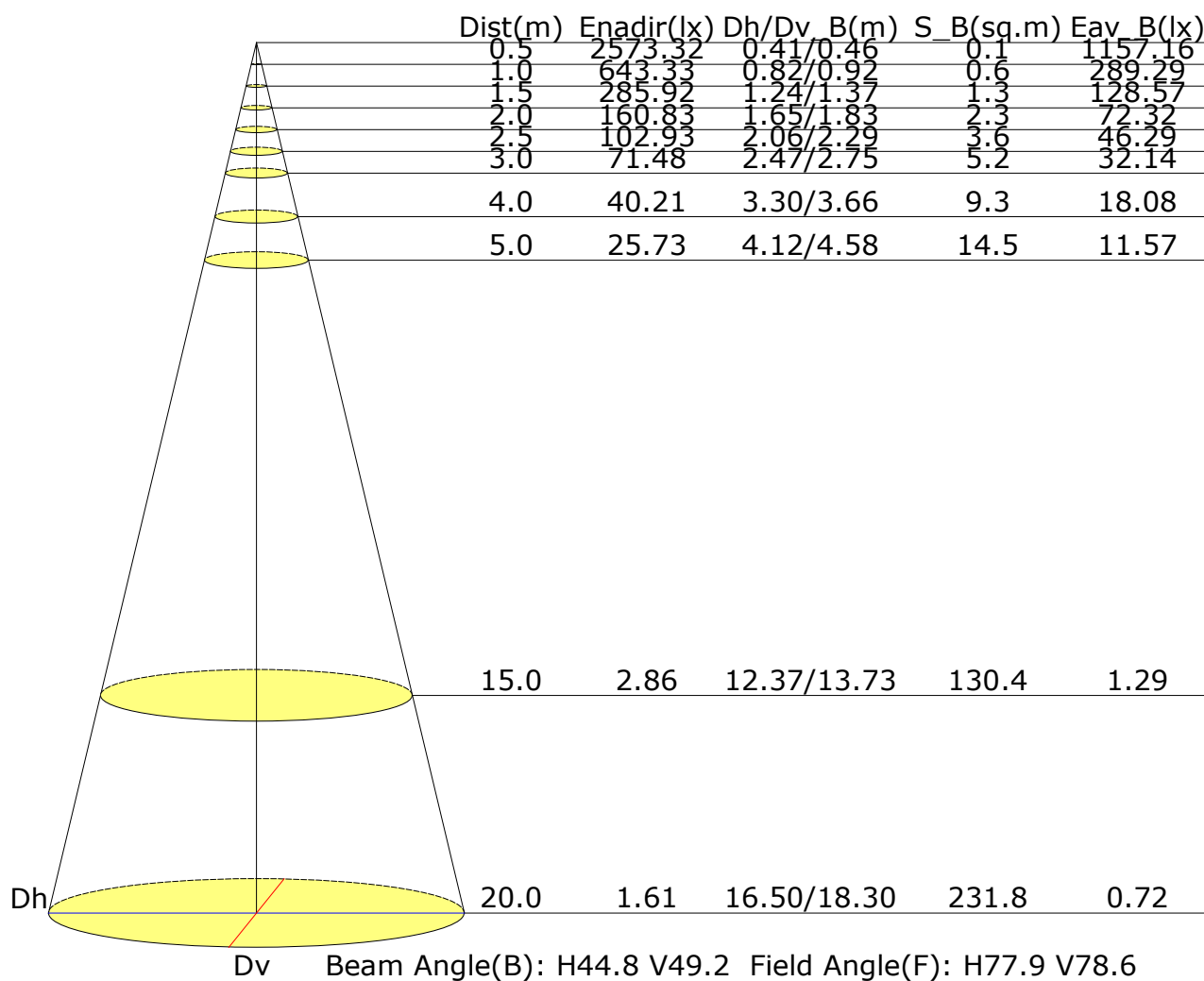
Test Device: CHL-6E

Distance: 3.328 m

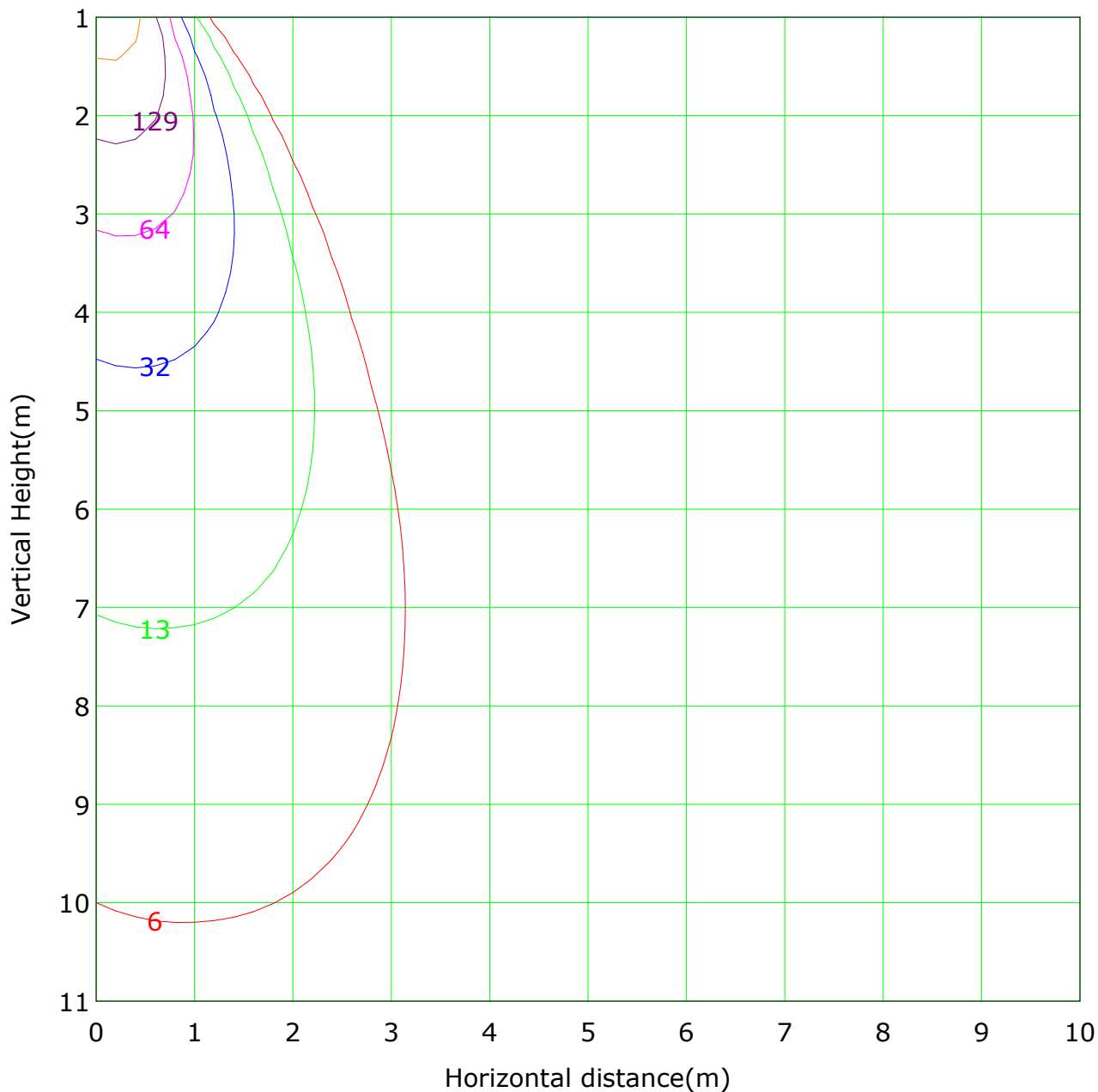
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 643.3 lx
— (1%): 6.4 lx — (2%): 12.9 lx
— (5%): 32.2 lx — (10%): 64.3 lx
— (20%): 128.7 lx — (50%): 321.7 lx
— (100%): 643.3 lx

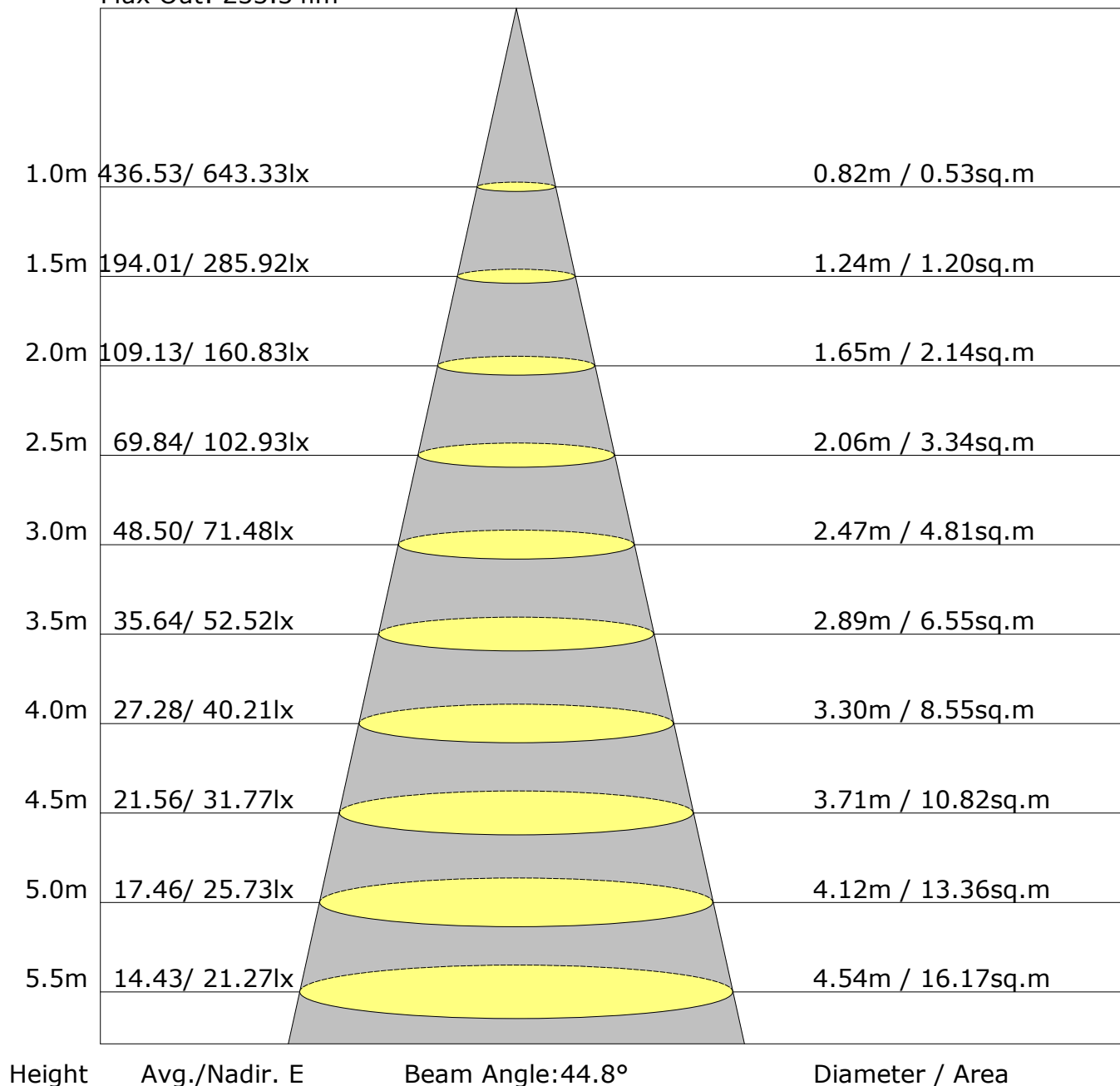
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Flux Out: 233.34lm



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	20.0	20.8	20.2	21.0	21.2	20.0	20.8	20.2	21.0	21.2
3H	20.0	20.8	20.3	21.0	21.3	20.0	20.8	20.3	21.0	21.3
4H	20.0	20.8	20.4	21.0	21.3	20.0	20.7	20.3	21.0	21.3
6H	20.0	20.7	20.4	21.0	21.3	20.0	20.7	20.4	21.0	21.3
8H	20.0	20.7	20.4	21.0	21.3	20.0	20.7	20.4	21.0	21.3
12H	20.0	20.6	20.4	20.9	21.3	20.0	20.6	20.4	20.9	21.2
X=4H Y=2H	19.9	20.6	20.2	20.8	21.1	19.9	20.6	20.2	20.8	21.1
3H	20.0	20.6	20.3	20.9	21.2	20.0	20.6	20.3	20.9	21.2
4H	20.0	20.6	20.4	20.9	21.3	20.0	20.6	20.4	20.9	21.3
6H	20.1	20.6	20.5	20.9	21.3	20.1	20.6	20.5	20.9	21.3
8H	20.1	20.5	20.5	20.9	21.3	20.1	20.5	20.5	20.9	21.3
12H	20.1	20.5	20.5	20.9	21.3	20.1	20.5	20.5	20.9	21.3
X=8H Y=4H	20.0	20.4	20.4	20.8	21.2	20.0	20.4	20.4	20.8	21.2
6H	20.1	20.4	20.5	20.9	21.3	20.1	20.4	20.5	20.8	21.3
8H	20.1	20.4	20.6	20.9	21.4	20.1	20.4	20.6	20.9	21.3
12H	20.1	20.4	20.6	20.9	21.4	20.1	20.4	20.6	20.8	21.3
X=12H Y=4H	20.0	20.3	20.4	20.8	21.2	20.0	20.3	20.4	20.8	21.2
6H	20.1	20.4	20.5	20.8	21.3	20.1	20.4	20.5	20.8	21.3
8H	20.1	20.4	20.6	20.8	21.3	20.1	20.4	20.6	20.8	21.3
Variations with the observer position at spacings:										
S=1.0H	+3.9/-4.3					+3.9/-4.4				
S=1.5H	+6.5/-4.8					+6.5/-4.8				
S=2.0H	+8.4/-5.4					+8.4/-5.5				

Calculate in accordance with CIE Pub.117. The table is revised with 445lm ($8\log(F/F_0) = -2.8$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	236	53.1
	FL (0°-30°)	182	40.9
	FM (30°-60°)	51	11.4
	FH (60°-80°)	3	0.7
	FVH (80°-90°)	0	0.1
	BACK LIGHT	209	46.9
	BL (0°-30°)	154	34.7
	BM (30°-60°)	51	11.4
	BH (60°-80°)	3	0.7
	BVH (80°-90°)	0	0.1
	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: 3.328 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	642.8	0.6	0.6	0.14	0.14
1.0-2.0	641.0	1.8	2.5	0.41	0.55
2.0-3.0	637.3	3.0	5.5	0.69	1.24
3.0-4.0	631.8	4.2	9.7	0.95	2.19
4.0-5.0	624.5	5.4	15.1	1.21	3.40
5.0-6.0	615.9	6.5	21.6	1.46	4.85
6.0-7.0	606.1	7.5	29.1	1.69	6.54
7.0-8.0	595.6	8.5	37.6	1.92	8.46
8.0-9.0	584.5	9.5	47.1	2.13	10.59
9.0-10.0	572.8	10.4	57.5	2.33	12.92
10.0-11.0	560.6	11.2	68.7	2.52	15.44
11.0-12.0	547.7	12.0	80.7	2.69	18.13
12.0-13.0	534.5	12.7	93.3	2.85	20.99
13.0-14.0	521.1	13.3	106.7	3.00	23.99
14.0-15.0	507.0	13.9	120.6	3.13	27.12
15.0-16.0	491.8	14.4	135.0	3.24	30.36
16.0-17.0	475.7	14.8	149.8	3.33	33.69
17.0-18.0	458.9	15.1	165.0	3.40	37.09
18.0-19.0	441.7	15.4	180.3	3.46	40.54
19.0-20.0	424.0	15.5	195.8	3.49	44.03
20.0-21.0	405.4	15.6	211.4	3.50	47.53
21.0-22.0	386.1	15.5	226.9	3.49	51.02
22.0-23.0	365.9	15.4	242.3	3.45	54.48
23.0-24.0	345.0	15.1	257.4	3.39	57.87
24.0-25.0	323.5	14.7	272.1	3.31	61.18
25.0-26.0	301.6	14.2	286.3	3.20	64.38
26.0-27.0	279.0	13.6	300.0	3.07	67.45
27.0-28.0	255.7	12.9	312.9	2.91	70.36
28.0-29.0	232.4	12.2	325.1	2.73	73.09
29.0-30.0	209.7	11.3	336.4	2.55	75.64
30.0-31.0	188.2	10.5	346.9	2.36	77.99
31.0-32.0	168.6	9.7	356.5	2.17	80.17
32.0-33.0	150.8	8.9	365.4	2.00	82.16
33.0-34.0	134.6	8.1	373.6	1.83	84.00
34.0-35.0	119.8	7.4	381.0	1.67	85.67
35.0-36.0	106.2	6.8	387.8	1.52	87.19

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	93.8	6.1	393.9	1.38	88.57
37.0-38.0	82.3	5.5	399.4	1.24	89.80
38.0-39.0	71.9	4.9	404.3	1.10	90.91
39.0-40.0	62.8	4.4	408.7	0.98	91.89
40.0-41.0	54.8	3.9	412.6	0.88	92.77
41.0-42.0	47.8	3.5	416.1	0.78	93.55
42.0-43.0	41.7	3.1	419.2	0.69	94.24
43.0-44.0	36.1	2.7	421.9	0.61	94.85
44.0-45.0	30.9	2.4	424.2	0.53	95.39
45.0-46.0	26.1	2.0	426.3	0.46	95.85
46.0-47.0	21.4	1.7	428.0	0.38	96.23
47.0-48.0	17.0	1.4	429.4	0.31	96.54
48.0-49.0	13.7	1.1	430.5	0.25	96.79
49.0-50.0	11.6	1.0	431.5	0.22	97.01
50.0-51.0	10.2	0.9	432.3	0.19	97.20
51.0-52.0	9.2	0.8	433.1	0.18	97.38
52.0-53.0	8.4	0.7	433.8	0.16	97.54
53.0-54.0	7.8	0.7	434.5	0.15	97.70
54.0-55.0	7.3	0.6	435.2	0.15	97.84
55.0-56.0	6.9	0.6	435.8	0.14	97.98
56.0-57.0	6.5	0.6	436.4	0.13	98.12
57.0-58.0	6.1	0.6	436.9	0.13	98.24
58.0-59.0	5.8	0.5	437.5	0.12	98.37
59.0-60.0	5.6	0.5	438.0	0.12	98.49
60.0-61.0	5.3	0.5	438.5	0.11	98.60
61.0-62.0	5.1	0.5	439.0	0.11	98.71
62.0-63.0	4.8	0.5	439.5	0.11	98.81
63.0-64.0	4.6	0.4	439.9	0.10	98.92
64.0-65.0	4.3	0.4	440.4	0.09	99.01
65.0-66.0	4.0	0.4	440.7	0.09	99.10
66.0-67.0	3.7	0.4	441.1	0.08	99.18
67.0-68.0	3.5	0.4	441.5	0.08	99.26
68.0-69.0	3.3	0.3	441.8	0.07	99.34
69.0-70.0	3.0	0.3	442.1	0.07	99.41
70.0-71.0	2.9	0.3	442.4	0.07	99.47
71.0-72.0	2.8	0.3	442.7	0.06	99.54

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: 3.328 m
Humidity:
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	643.3	643.3								
G1.0	653.1	631.5								
G2.0	661.3	618.0								
G3.0	667.8	602.2								
G4.0	672.5	584.7								
G5.0	675.1	565.9								
G6.0	676.3	546.3								
G7.0	676.5	525.5								
G8.0	675.1	505.3								
G9.0	671.8	485.8								
G10.0	666.8	467.0								
G11.0	659.6	448.9								
G12.0	650.8	431.7								
G13.0	639.5	416.3								
G14.0	626.2	402.5								
G15.0	610.9	388.3								
G16.0	592.5	375.3								
G17.0	571.6	363.4								
G18.0	548.7	351.8								
G19.0	524.8	341.3								
G20.0	499.0	330.9								
G21.0	471.6	320.2								
G22.0	443.5	309.1								
G23.0	413.8	297.3								
G24.0	384.0	284.8								
G25.0	354.3	271.0								
G26.0	324.5	256.4								
G27.0	294.5	240.5								
G28.0	264.3	223.7								
G29.0	235.0	206.7								
G30.0	207.7	189.6								
G31.0	182.9	172.8								
G32.0	161.3	157.3								
G33.0	142.4	142.3								
G34.0	125.5	128.2								
G35.0	110.4	115.0								
G36.0	97.3	102.3								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
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Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	85.3	90.4								
G38.0	74.6	79.1								
G39.0	64.8	69.2								
G40.0	56.7	60.5								
G41.0	49.7	52.5								
G42.0	43.3	45.7								
G43.0	37.9	39.7								
G44.0	32.8	33.9								
G45.0	28.1	28.8								
G46.0	23.6	23.8								
G47.0	19.4	18.6								
G48.0	15.6	14.4								
G49.0	12.9	11.9								
G50.0	11.2	10.4								
G51.0	9.9	9.3								
G52.0	9.1	8.3								
G53.0	8.3	7.8								
G54.0	7.8	7.2								
G55.0	7.3	6.7								
G56.0	6.9	6.6								
G57.0	6.5	6.1								
G58.0	6.1	5.7								
G59.0	6.0	5.5								
G60.0	5.5	5.5								
G61.0	5.3	5.0								
G62.0	5.1	4.8								
G63.0	4.7	4.7								
G64.0	4.5	4.3								
G65.0	4.2	4.0								
G66.0	3.8	3.8								
G67.0	3.6	3.5								
G68.0	3.5	3.3								
G69.0	3.2	3.0								
G70.0	3.0	3.0								
G71.0	2.9	2.9								
G72.0	2.7	2.6								
G73.0	2.5	2.4								

C Plane (°):0.0-180.0: 180.0

Test Lab:

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Temperature:

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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: