

Report No.:

Test Time: 2024-10-06 14:34

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -75

Voltage: 225.7 V

Power: 32.40 W

Luminous Width (mm): -75

Current: 0.146 A

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 3530 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H39.6

Vertical Diffuse Angle(50%): V39.6

Luminaire Efficacy Rating (LER): 109.00

Max. Intensity: 8190.46 cd

S/MH(C0/C180): 0.65

Total Rated Lamp Lumens: 3530.0 lm

Efficiency: 100%

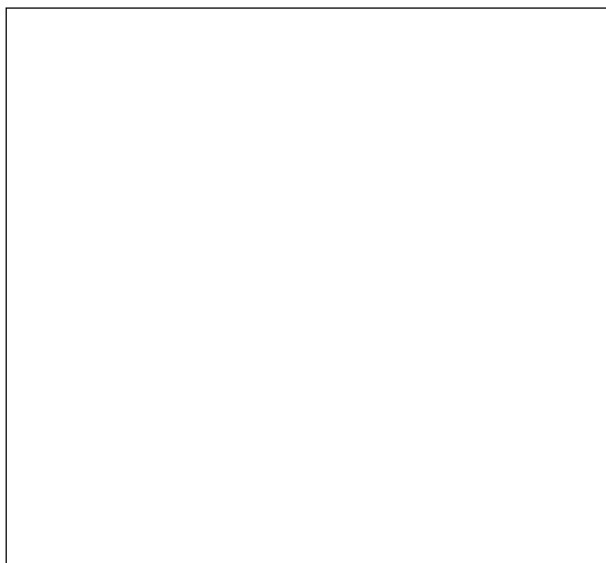
Upward Ratio: 0%

Central Intensity: 8035.86 cd

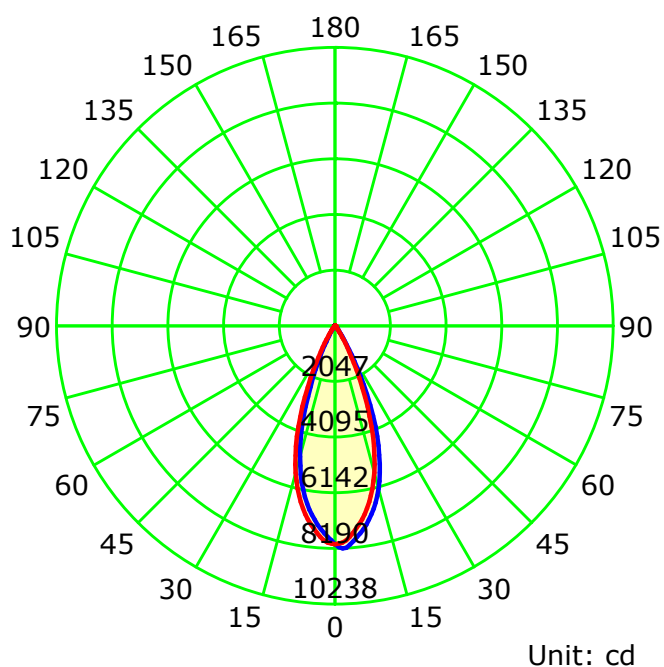
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.65

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

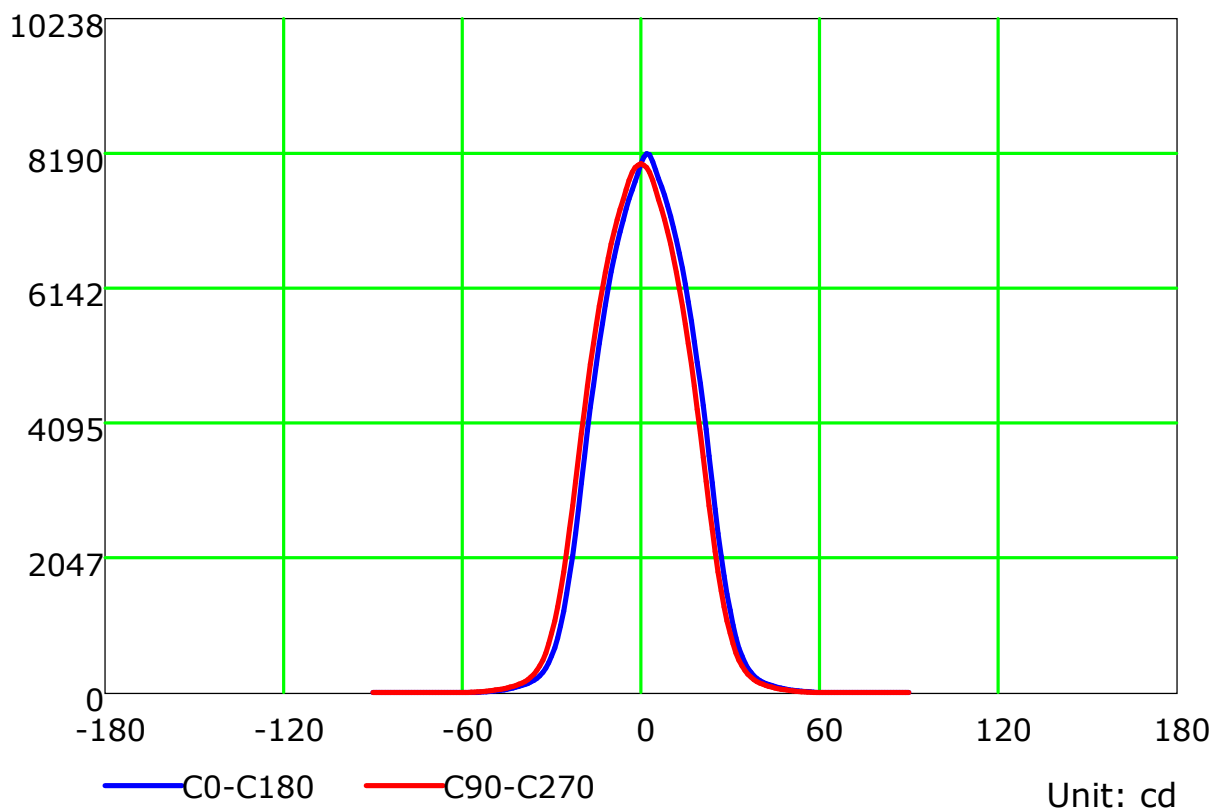
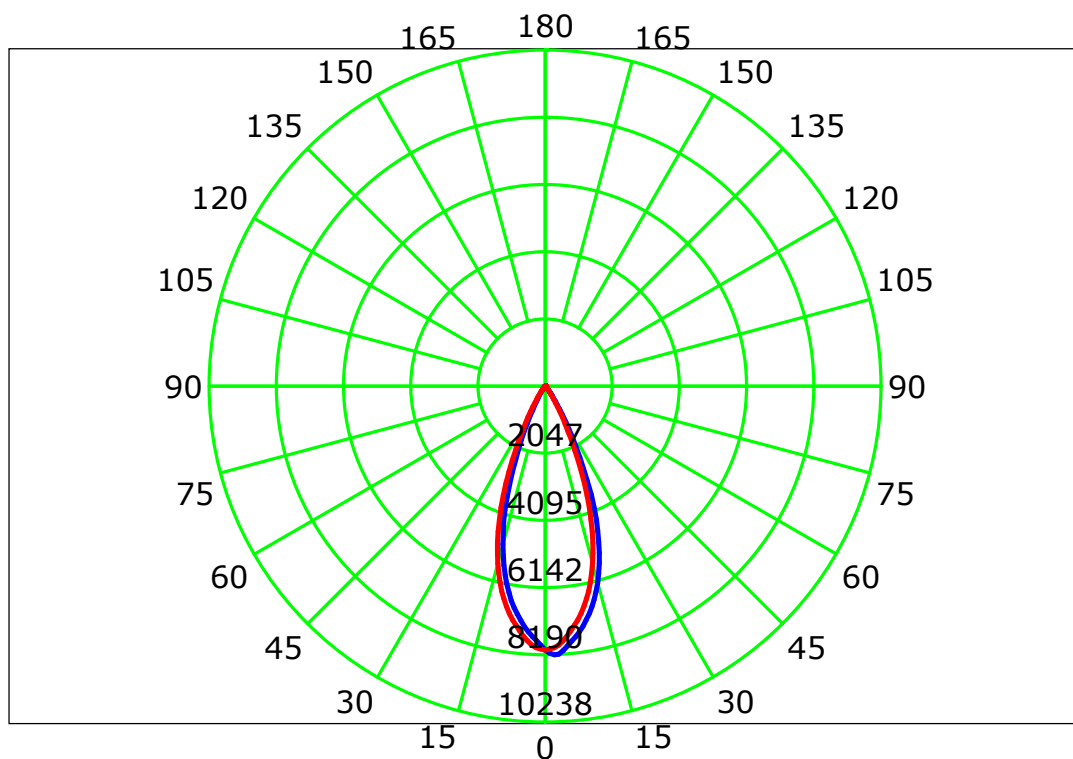
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

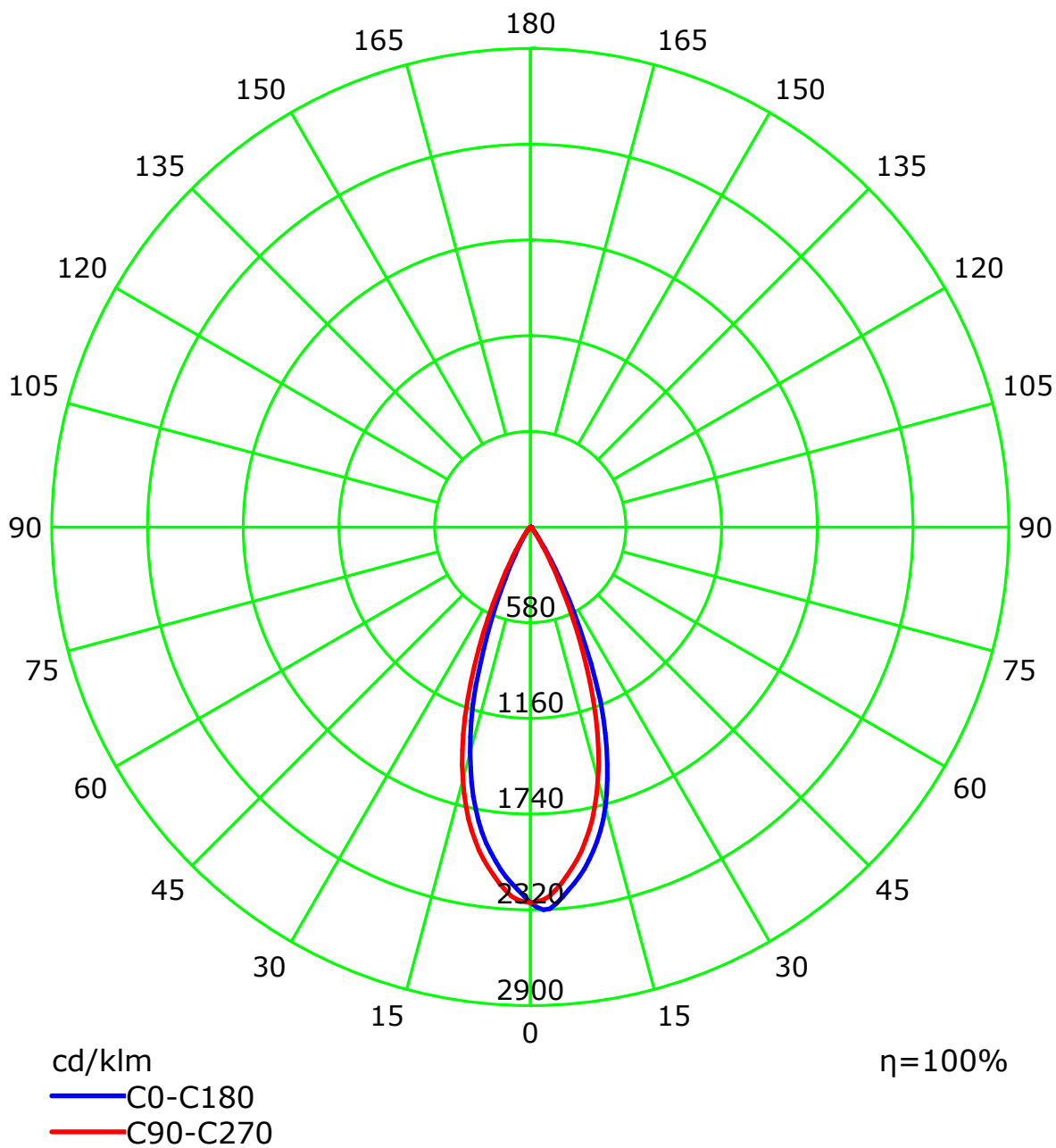
Luminous Intensity Distribution Curve



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:

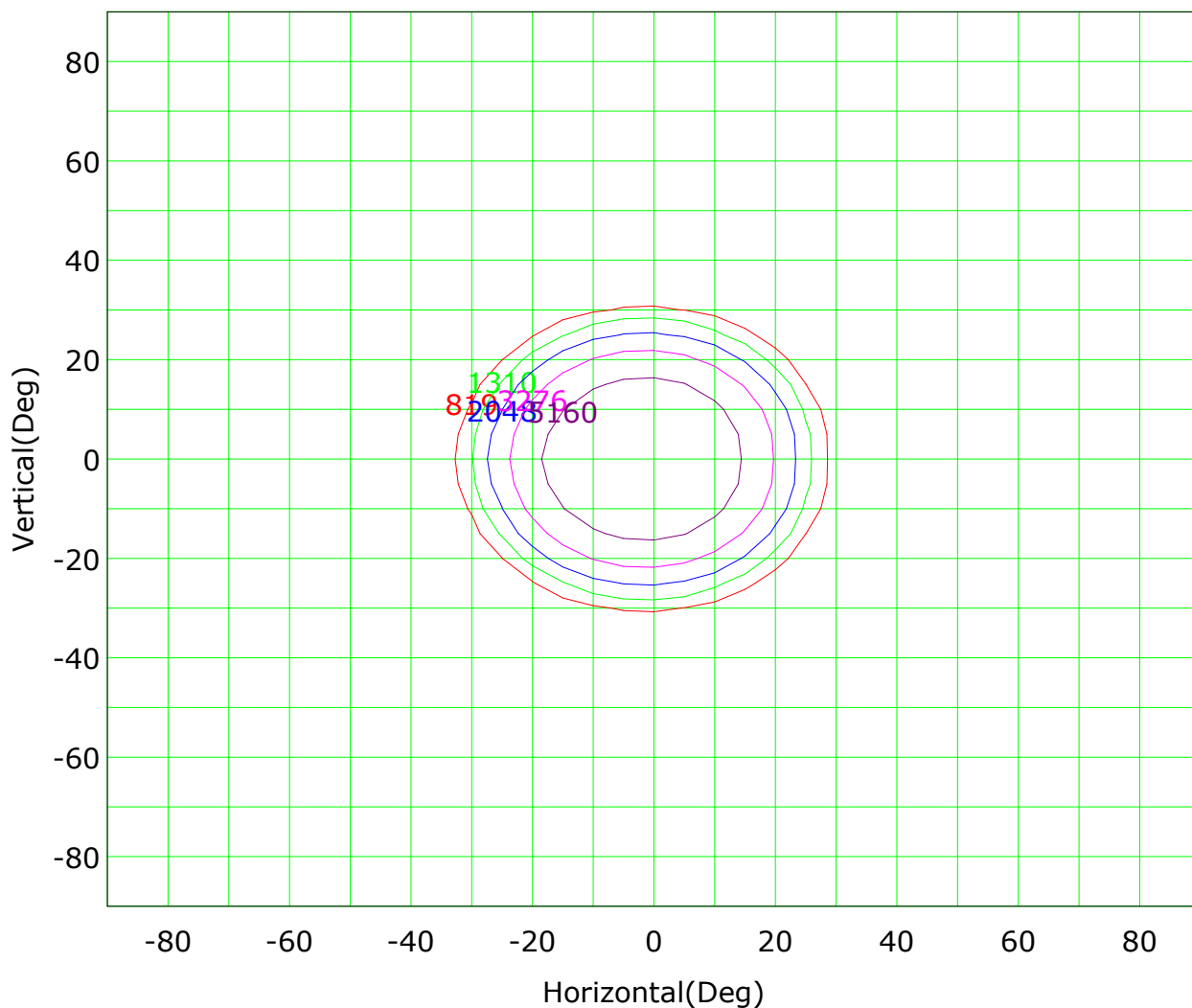
Luminous Intensity Distribution Curve(cd/klm)



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%): 8190 cd

(10%): 819 cd	(16%): 1310 cd
(25%): 2048 cd	(40%): 3276 cd
(63%): 5160 cd	(100%): 8190 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

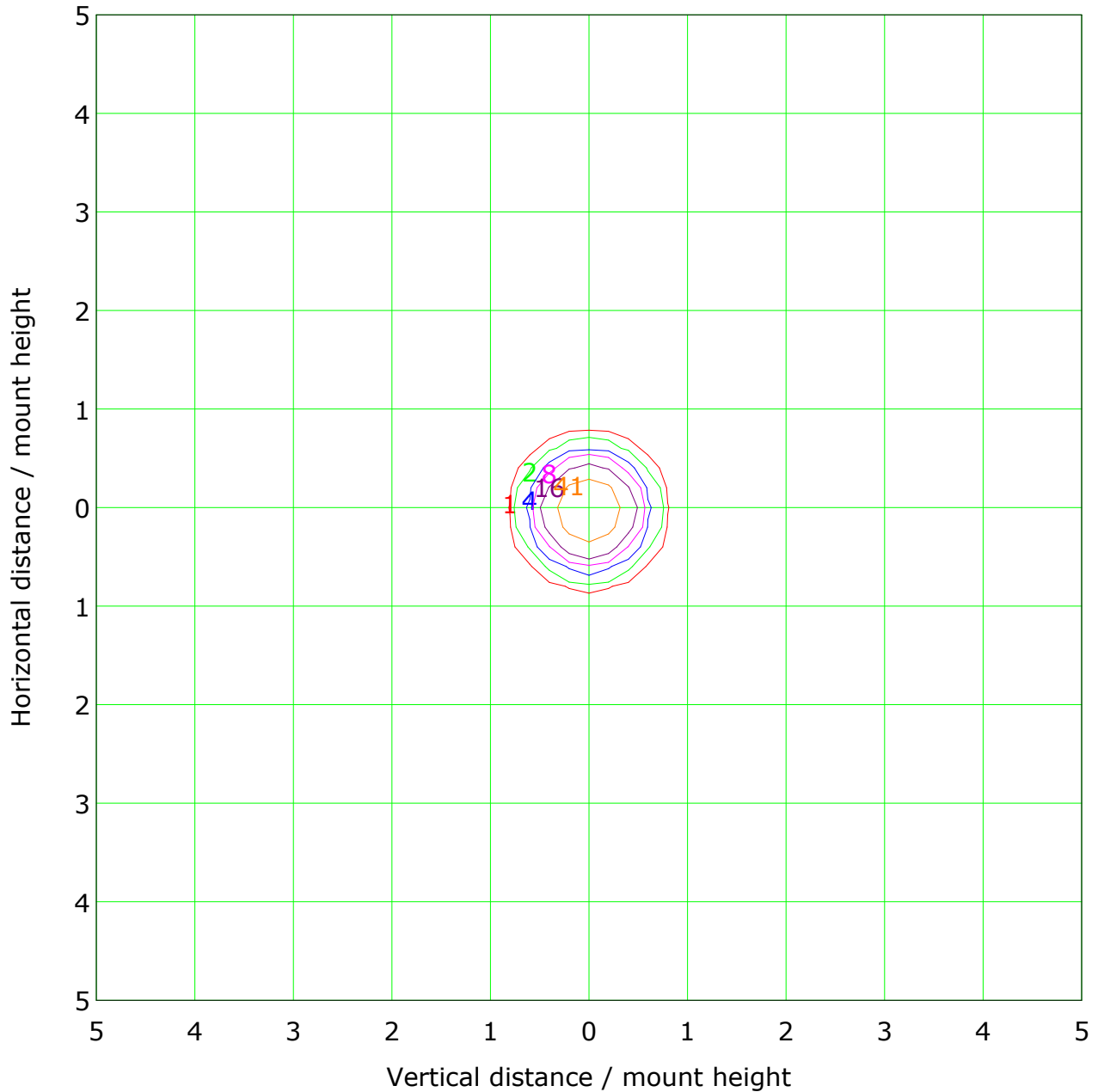
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 81.8 lx

(1%): 0.8 lx	(2%): 1.6 lx
(5%): 4.1 lx	(10%): 8.2 lx
(20%): 16.4 lx	(50%): 40.9 lx
(100%): 81.8 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

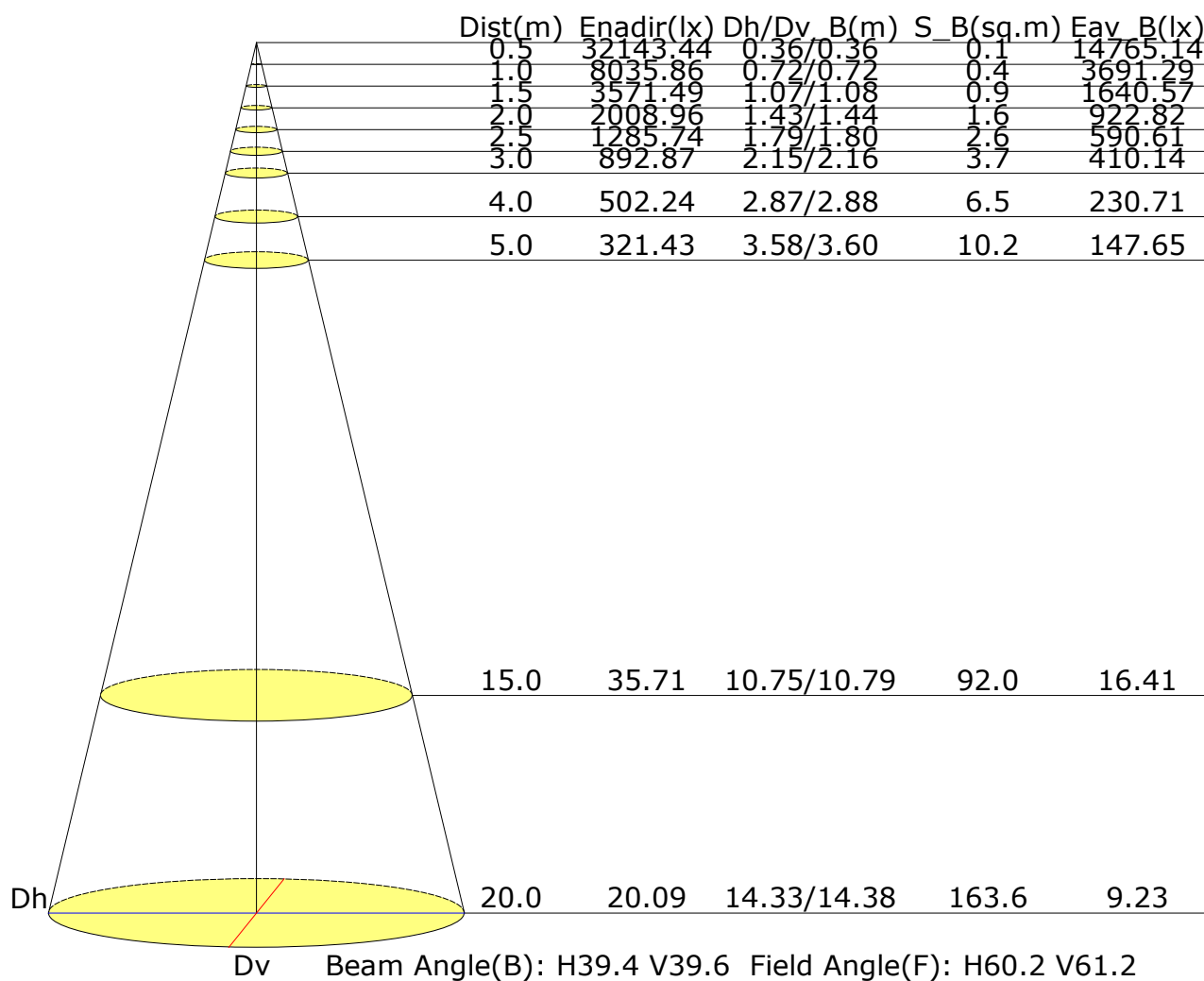
Test Device: CHL-6E

Distance: 3.328 m

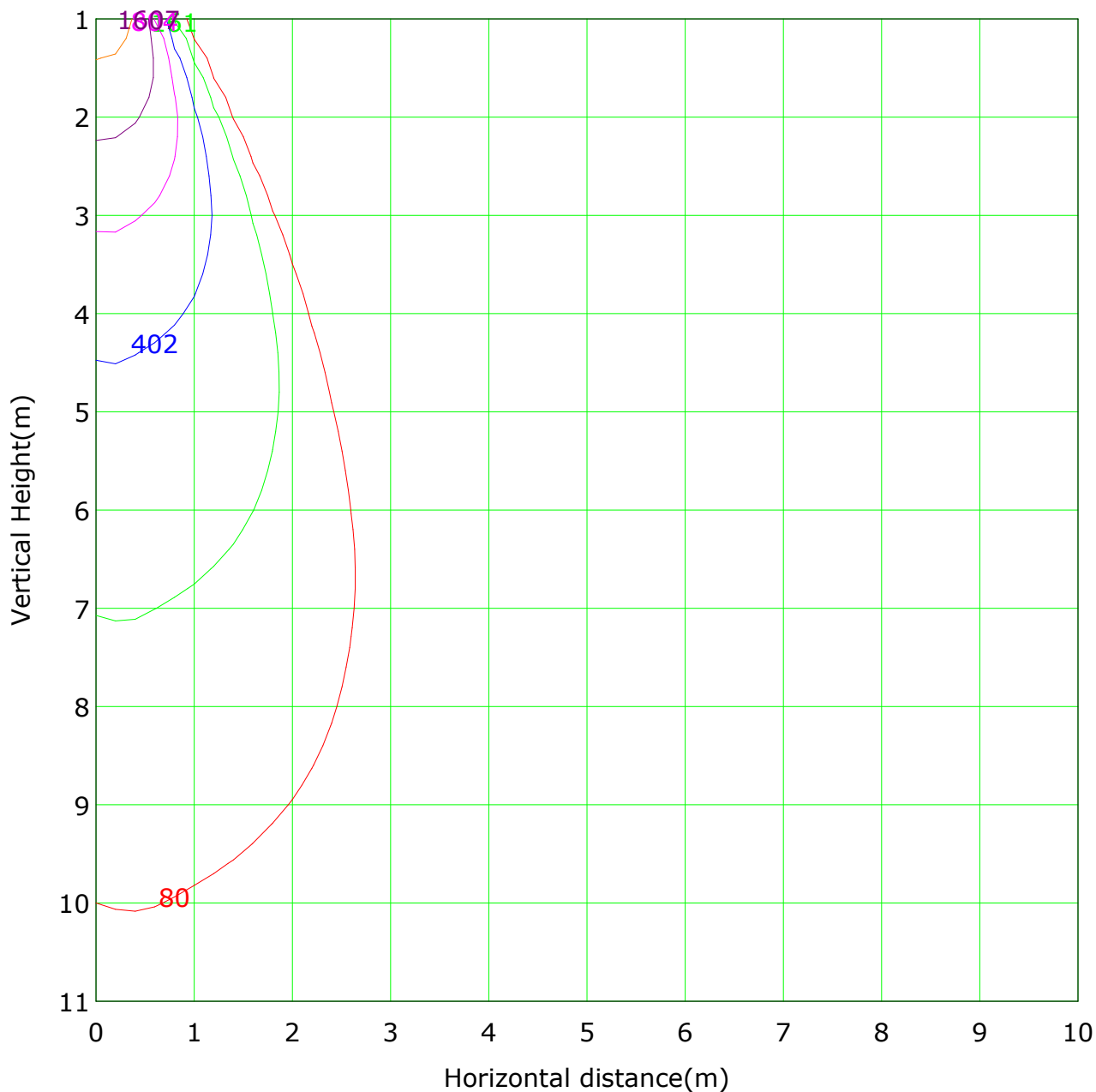
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



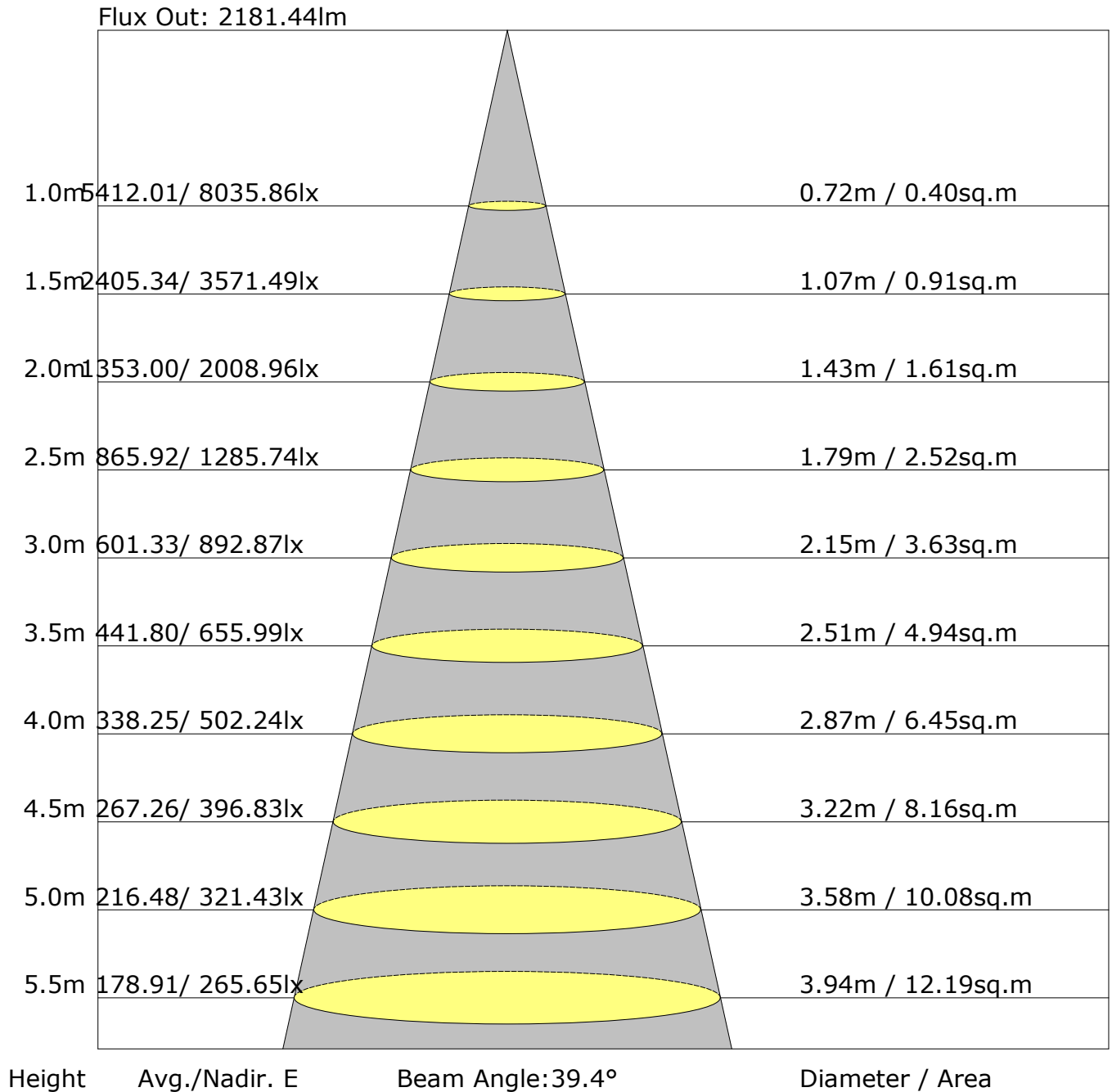
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8035.9 lx
— (1%): 80.4 lx — (2%): 160.7 lx
— (5%): 401.8 lx — (10%): 803.6 lx
— (20%): 1607.2 lx — (50%): 4017.9 lx
— (100%): 8035.9 lx

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	17.5	18.2	17.7	18.3	18.5	16.1	16.8	16.4	17.0	17.2
3H	17.3	17.9	17.6	18.2	18.4	16.0	16.6	16.3	16.8	17.1
4H	17.2	17.8	17.5	18.1	18.4	15.9	16.5	16.2	16.7	17.0
6H	17.2	17.7	17.5	18.0	18.3	15.8	16.4	16.1	16.7	16.9
8H	17.1	17.7	17.5	18.0	18.3	15.8	16.3	16.1	16.6	16.9
12H	17.1	17.6	17.4	17.9	18.2	15.7	16.3	16.1	16.6	16.9
X=4H Y=2H	17.2	17.8	17.5	18.1	18.4	15.9	16.5	16.2	16.8	17.0
3H	17.1	17.6	17.4	17.9	18.2	15.7	16.3	16.1	16.6	16.9
4H	17.0	17.5	17.4	17.8	18.1	15.7	16.1	16.0	16.5	16.8
6H	16.9	17.3	17.3	17.7	18.1	15.6	16.0	16.0	16.4	16.7
8H	16.9	17.2	17.3	17.6	18.0	15.5	15.9	16.0	16.3	16.7
12H	16.8	17.2	17.3	17.6	18.0	15.5	15.8	15.9	16.2	16.7
X=8H Y=4H	16.9	17.2	17.3	17.6	18.0	15.5	15.9	16.0	16.3	16.7
6H	16.8	17.1	17.2	17.5	18.0	15.4	15.7	15.9	16.2	16.6
8H	16.7	17.0	17.2	17.4	17.9	15.4	15.6	15.9	16.1	16.6
12H	16.7	16.9	17.2	17.4	17.9	15.3	15.6	15.8	16.0	16.5
X=12H Y=4H	16.8	17.2	17.3	17.6	18.0	15.5	15.8	15.9	16.2	16.7
6H	16.7	17.0	17.2	17.4	17.9	15.4	15.6	15.9	16.1	16.6
8H	16.7	16.9	17.2	17.4	17.9	15.3	15.6	15.8	16.0	16.5
Variations with the observer position at spacings:										
S=1.0H	+5.8/-11.9					+5.4/-13.2				
S=1.5H	+8.5/-1.\$					+8.2/-1.\$				
S=2.0H	+10.5/-1.\$					+10.2/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 3530lm ($8\log(F/F_0) = 4.4$).

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	1914	54.2
	FL (0°-30°)	1731	49.0
	FM (30°-60°)	183	5.2
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1616	45.8
	BL (0°-30°)	1487	42.1
	BM (30°-60°)	128	3.6
	BH (60°-80°)	0	0.0
	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	8025.0	7.7	7.7	0.22	0.22
1.0-2.0	7995.3	23.0	30.6	0.65	0.87
2.0-3.0	7940.8	38.0	68.6	1.08	1.94
3.0-4.0	7845.1	52.5	121.1	1.49	3.43
4.0-5.0	7715.5	66.4	187.5	1.88	5.31
5.0-6.0	7570.2	79.6	267.1	2.25	7.57
6.0-7.0	7418.8	92.1	359.2	2.61	10.18
7.0-8.0	7265.4	104.0	463.2	2.95	13.12
8.0-9.0	7100.6	115.1	578.3	3.26	16.38
9.0-10.0	6913.9	125.1	703.4	3.54	19.93
10.0-11.0	6709.4	134.1	837.5	3.80	23.72
11.0-12.0	6493.1	142.0	979.4	4.02	27.75
12.0-13.0	6261.0	148.6	1128.0	4.21	31.96
13.0-14.0	6007.3	153.8	1281.8	4.36	36.31
14.0-15.0	5735.5	157.5	1439.3	4.46	40.77
15.0-16.0	5449.4	159.7	1599.0	4.52	45.30
16.0-17.0	5146.1	160.3	1759.3	4.54	49.84
17.0-18.0	4823.3	159.1	1918.3	4.51	54.34
18.0-19.0	4479.5	155.9	2074.2	4.42	58.76
19.0-20.0	4118.9	150.8	2225.0	4.27	63.03
20.0-21.0	3754.6	144.2	2369.2	4.08	67.12
21.0-22.0	3391.2	136.3	2505.5	3.86	70.98
22.0-23.0	3023.7	126.9	2632.4	3.59	74.57
23.0-24.0	2660.3	116.3	2748.7	3.30	77.87
24.0-25.0	2313.5	105.2	2853.9	2.98	80.85
25.0-26.0	1986.8	93.8	2947.7	2.66	83.50
26.0-27.0	1686.7	82.5	3030.2	2.34	85.84
27.0-28.0	1422.4	72.0	3102.3	2.04	87.88
28.0-29.0	1193.7	62.5	3164.7	1.77	89.65
29.0-30.0	995.4	53.8	3218.5	1.52	91.17
30.0-31.0	821.9	45.7	3264.2	1.30	92.47
31.0-32.0	670.7	38.4	3302.6	1.09	93.56
32.0-33.0	547.3	32.2	3334.9	0.91	94.47
33.0-34.0	450.0	27.2	3362.1	0.77	95.24
34.0-35.0	371.5	23.1	3385.2	0.65	95.90
35.0-36.0	307.6	19.6	3404.8	0.55	96.45

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	257.1	16.8	3421.6	0.48	96.93
37.0-38.0	216.3	14.4	3436.0	0.41	97.34
38.0-39.0	183.6	12.5	3448.5	0.35	97.69
39.0-40.0	157.7	11.0	3459.5	0.31	98.00
40.0-41.0	136.8	9.7	3469.3	0.28	98.28
41.0-42.0	119.7	8.7	3478.0	0.25	98.53
42.0-43.0	104.1	7.7	3485.7	0.22	98.74
43.0-44.0	90.4	6.8	3492.5	0.19	98.94
44.0-45.0	77.9	6.0	3498.5	0.17	99.11
45.0-46.0	66.1	5.2	3503.7	0.15	99.25
46.0-47.0	56.7	4.5	3508.2	0.13	99.38
47.0-48.0	49.6	4.0	3512.2	0.11	99.49
48.0-49.0	42.7	3.5	3515.7	0.10	99.59
49.0-50.0	35.8	3.0	3518.7	0.08	99.68
50.0-51.0	30.2	2.6	3521.2	0.07	99.75
51.0-52.0	25.6	2.2	3523.4	0.06	99.81
52.0-53.0	20.9	1.8	3525.2	0.05	99.86
53.0-54.0	16.5	1.5	3526.7	0.04	99.91
54.0-55.0	12.2	1.1	3527.8	0.03	99.94
55.0-56.0	8.7	0.8	3528.6	0.02	99.96
56.0-57.0	6.2	0.6	3529.1	0.02	99.98
57.0-58.0	4.7	0.4	3529.6	0.01	99.99
58.0-59.0	3.1	0.3	3529.9	0.01	100.00
59.0-60.0	1.2	0.1	3530.0	0.00	100.00
60.0-61.0	0.3	0.0	3530.0	0.00	100.00
61.0-62.0	0.0	0.0	3530.0	0.00	100.00
62.0-63.0	0.0	0.0	3530.0	0.00	100.00
63.0-64.0	0.0	0.0	3530.0	0.00	100.00
64.0-65.0	0.0	0.0	3530.0	0.00	100.00
65.0-66.0	0.0	0.0	3530.0	0.00	100.00
66.0-67.0	0.0	0.0	3530.0	0.00	100.00
67.0-68.0	0.0	0.0	3530.0	0.00	100.00
68.0-69.0	0.0	0.0	3530.0	0.00	100.00
69.0-70.0	0.0	0.0	3530.0	0.00	100.00
70.0-71.0	0.0	0.0	3530.0	0.00	100.00
71.0-72.0	0.0	0.0	3530.0	0.00	100.00

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

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	8035.9	8035.9								
G1.0	8135.6	7892.5								
G2.0	8190.5	7762.9								
G3.0	8173.0	7636.9								
G4.0	8068.3	7502.3								
G5.0	7939.9	7351.5								
G6.0	7807.7	7181.9								
G7.0	7683.1	7002.4								
G8.0	7553.4	6822.9								
G9.0	7406.3	6619.7								
G10.0	7236.8	6392.8								
G11.0	7061.0	6147.2								
G12.0	6875.2	5889.1								
G13.0	6673.3	5606.1								
G14.0	6447.6	5302.0								
G15.0	6202.0	4990.3								
G16.0	5937.8	4667.4								
G17.0	5643.5	4335.8								
G18.0	5334.4	3979.3								
G19.0	5017.7	3586.6								
G20.0	4693.6	3177.7								
G21.0	4360.8	2786.3								
G22.0	4001.7	2416.0								
G23.0	3596.6	2080.6								
G24.0	3187.7	1776.5								
G25.0	2790.0	1499.7								
G26.0	2418.5	1239.2								
G27.0	2075.7	1013.5								
G28.0	1771.5	829.0								
G29.0	1496.0	678.2								
G30.0	1251.6	556.0								
G31.0	1026.0	453.8								
G32.0	832.8	370.3								
G33.0	679.4	306.7								
G34.0	558.5	255.6								
G35.0	456.3	215.7								
G36.0	372.8	185.8								

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	309.2	160.8								
G38.0	255.6	139.6								
G39.0	214.4	124.7								
G40.0	183.3	108.5								
G41.0	159.6	96.0								
G42.0	139.6	83.5								
G43.0	122.2	71.1								
G44.0	108.5	59.8								
G45.0	93.5	49.9								
G46.0	81.0	39.9								
G47.0	71.1	34.9								
G48.0	62.3	29.9								
G49.0	52.4	26.2								
G50.0	42.4	22.4								
G51.0	37.4	18.7								
G52.0	32.4	13.7								
G53.0	27.4	10.0								
G54.0	22.4	6.2								
G55.0	18.7	1.3								
G56.0	15.0	0.0								
G57.0	10.0	0.0								
G58.0	8.7	0.0								
G59.0	3.7	0.0								
G60.0	1.3	0.0								
G61.0	0.0	0.0								
G62.0	0.0	0.0								
G63.0	0.0	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	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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Temperature:

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Inspector: