

Report No.:

Test Time: 2026-09-10 15:56

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -50

Current: 0.065 A

Power Factor: 0.940

Luminous Length (mm): -50

Voltage: 228.6 V

Power: 14.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1390.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H25.5

Vertical Diffuse Angle(50%): V25.5

Luminaire Efficacy Rating (LER): 98.68

Max. Intensity: 5876.84 cd

S/MH(C0/C180): 0.43

Total Rated Lamp Lumens: 1390.7 lm

Efficiency: 100%

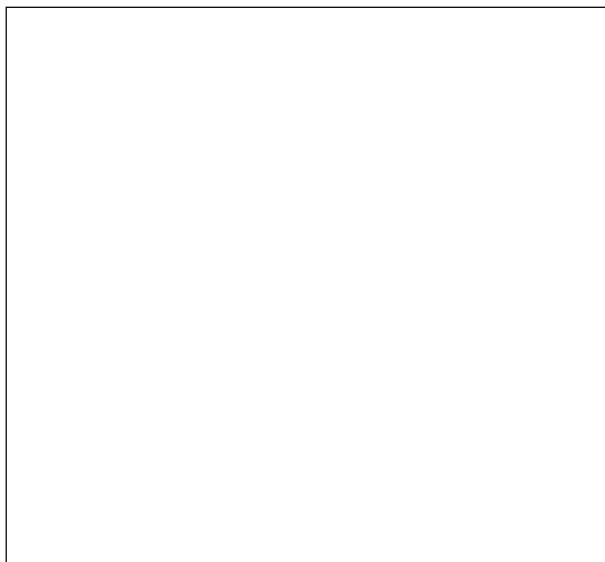
Upward Ratio: 0%

Central Intensity: 5860.25 cd

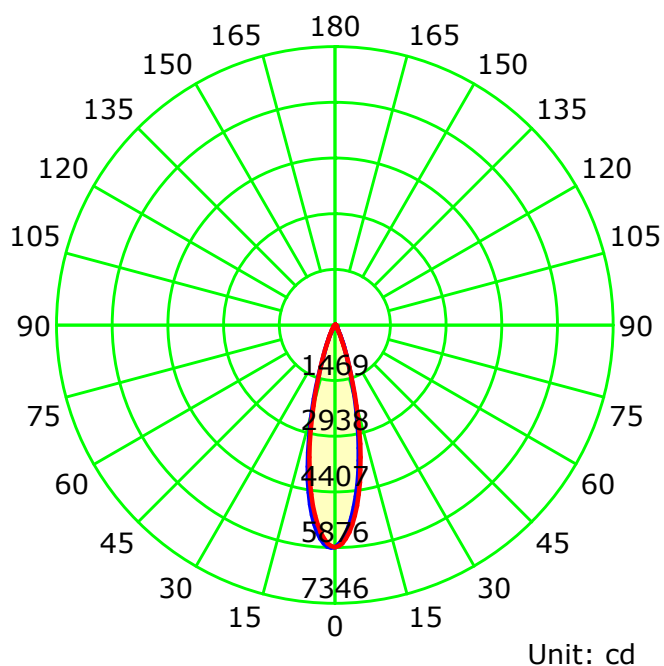
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.43

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

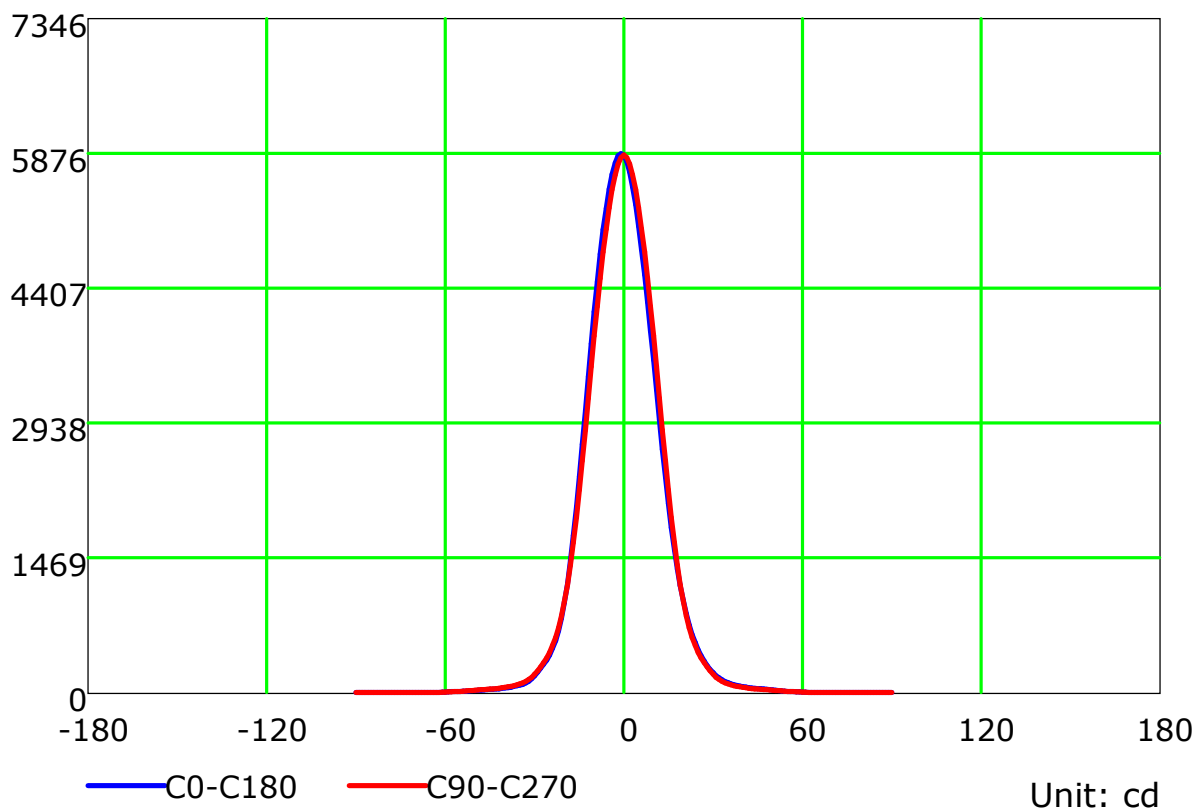
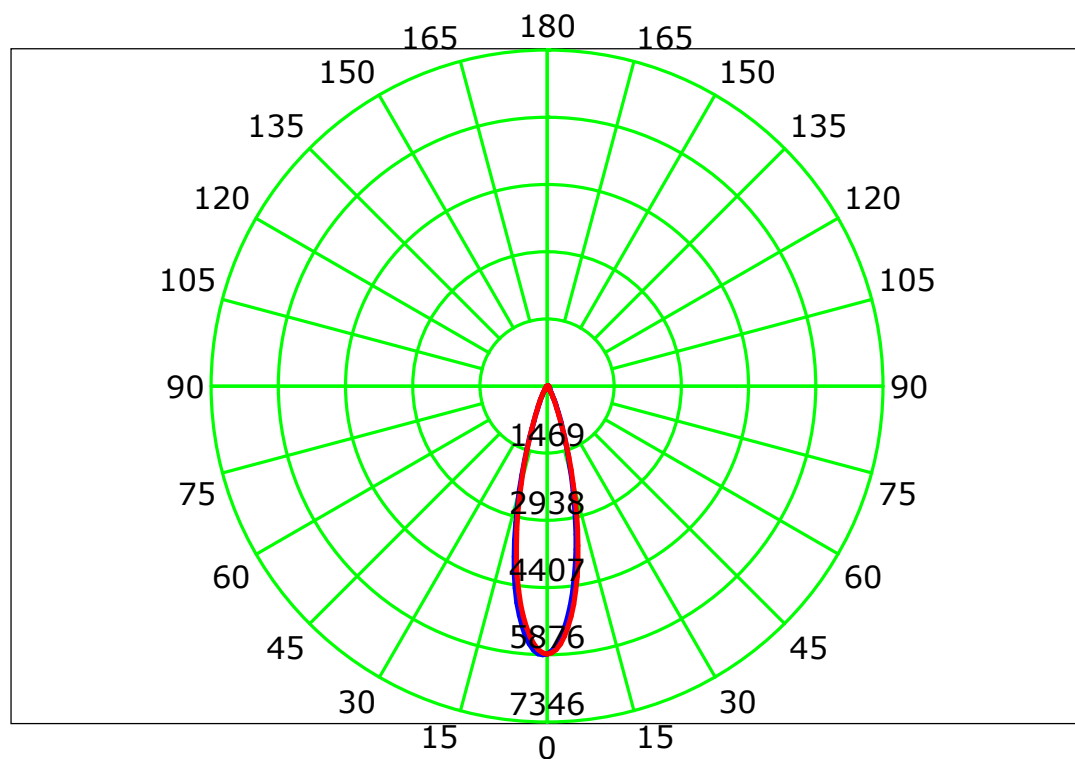
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

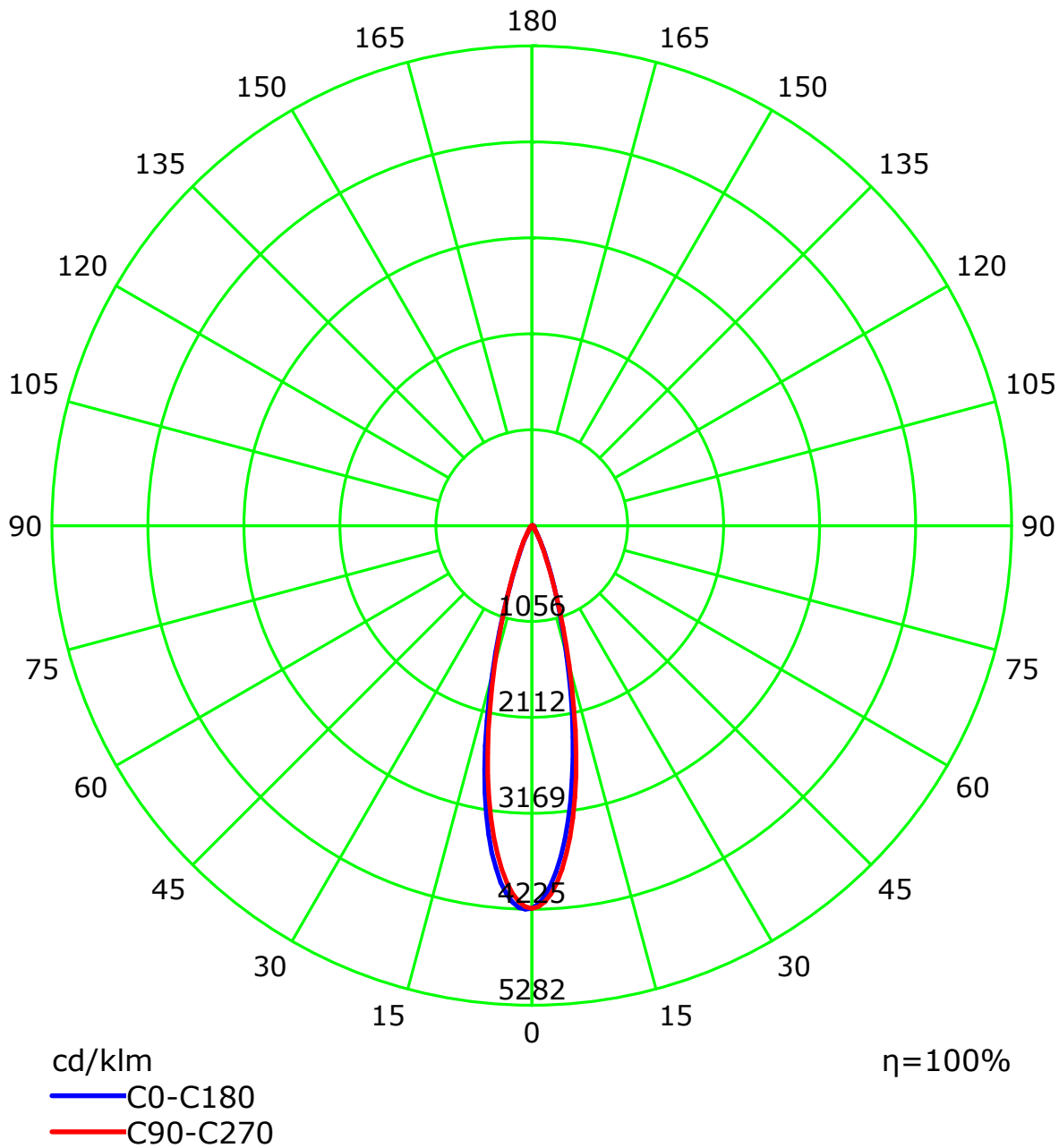
Luminous Intensity Distribution Curve



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:

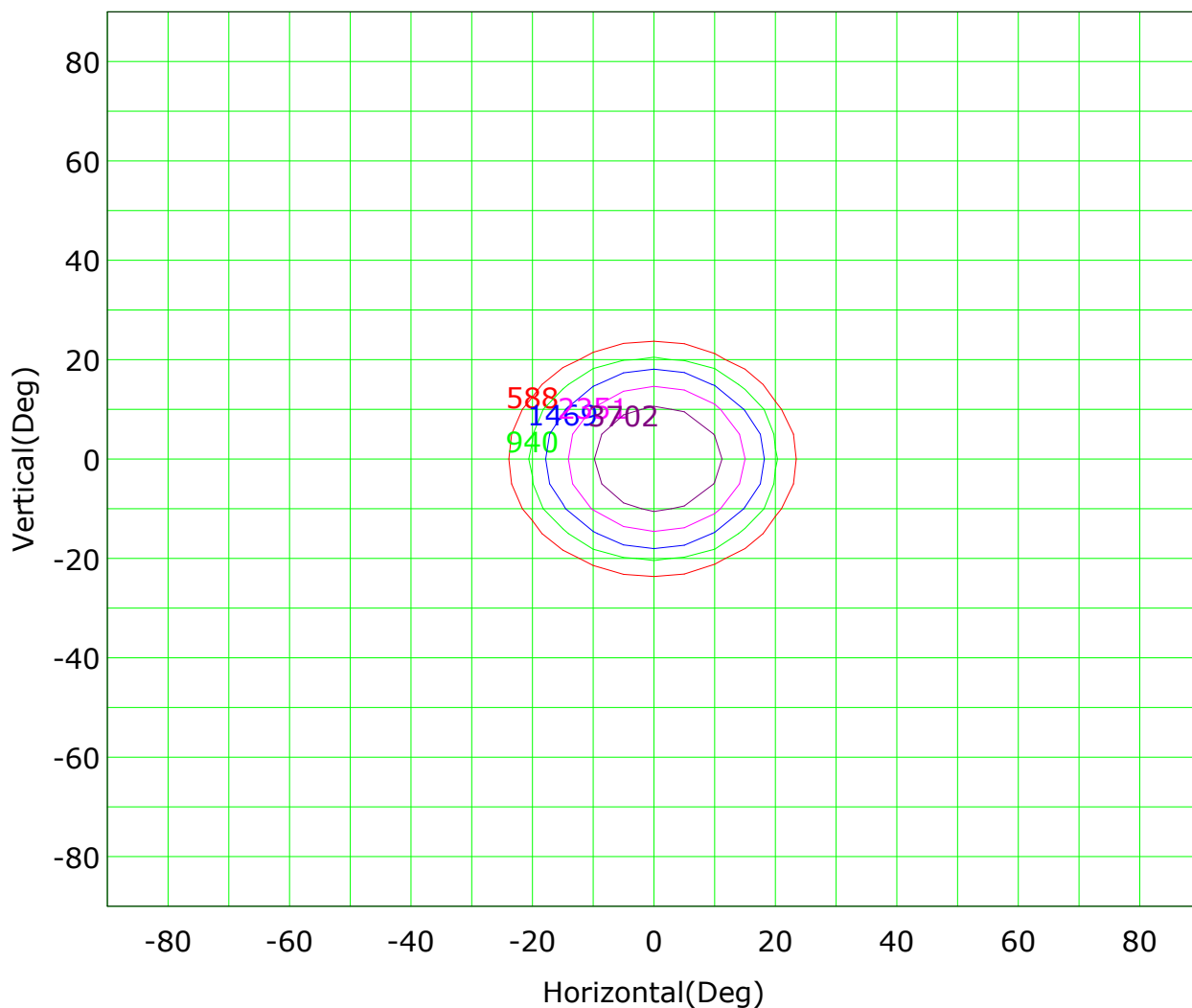
Luminous Intensity Distribution Curve(cd/klm)



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%): 5877 cd

(10%): 588 cd	(16%): 940 cd
(25%): 1469 cd	(40%): 2351 cd
(63%): 3702 cd	(100%): 5877 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

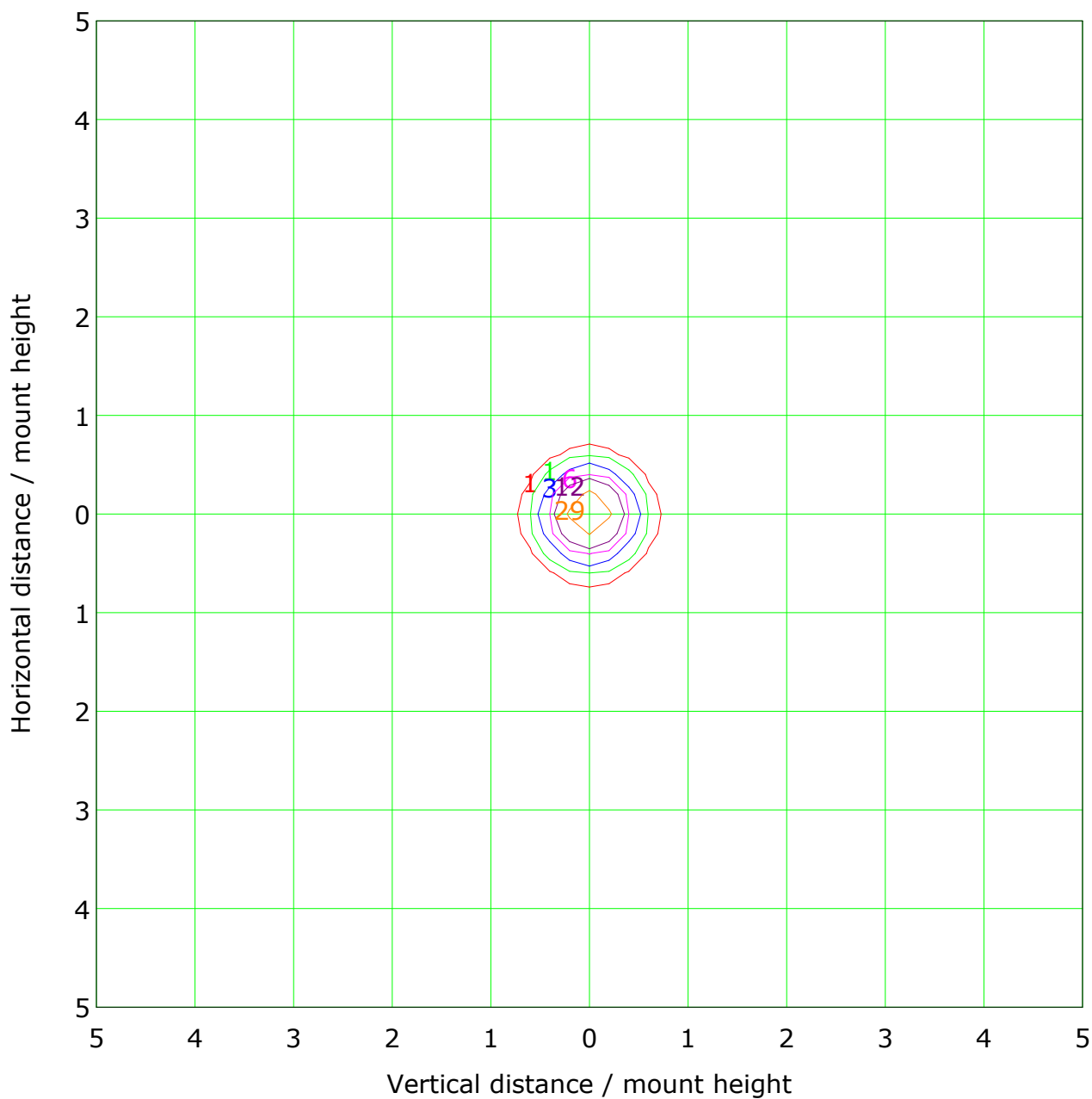
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 58.7 lx

(1%): 0.6 lx	(2%): 1.2 lx
(5%): 2.9 lx	(10%): 5.9 lx
(20%): 11.7 lx	(50%): 29.4 lx
(100%): 58.7 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

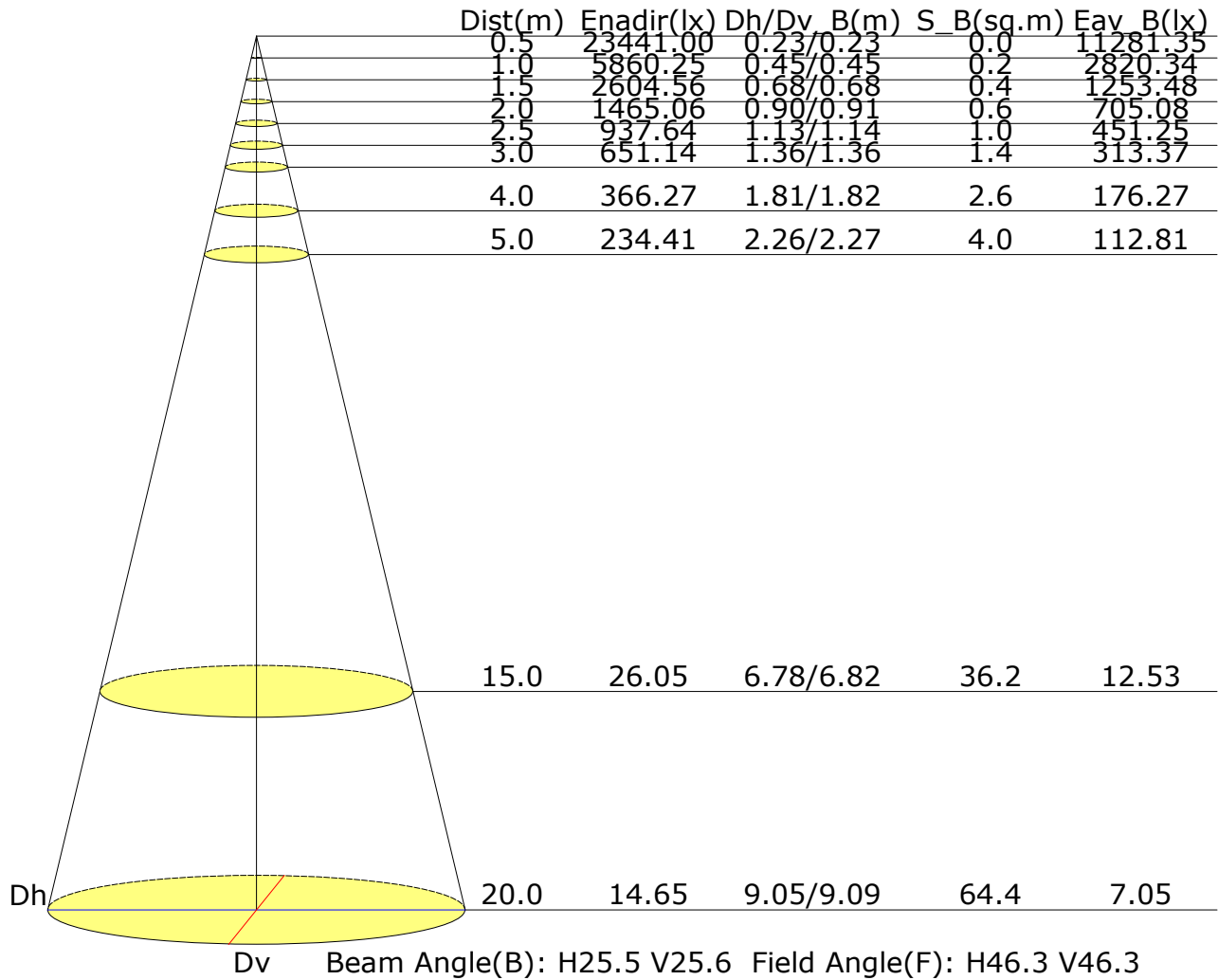
Test Device: CHL-6E

Distance: 3.010 m

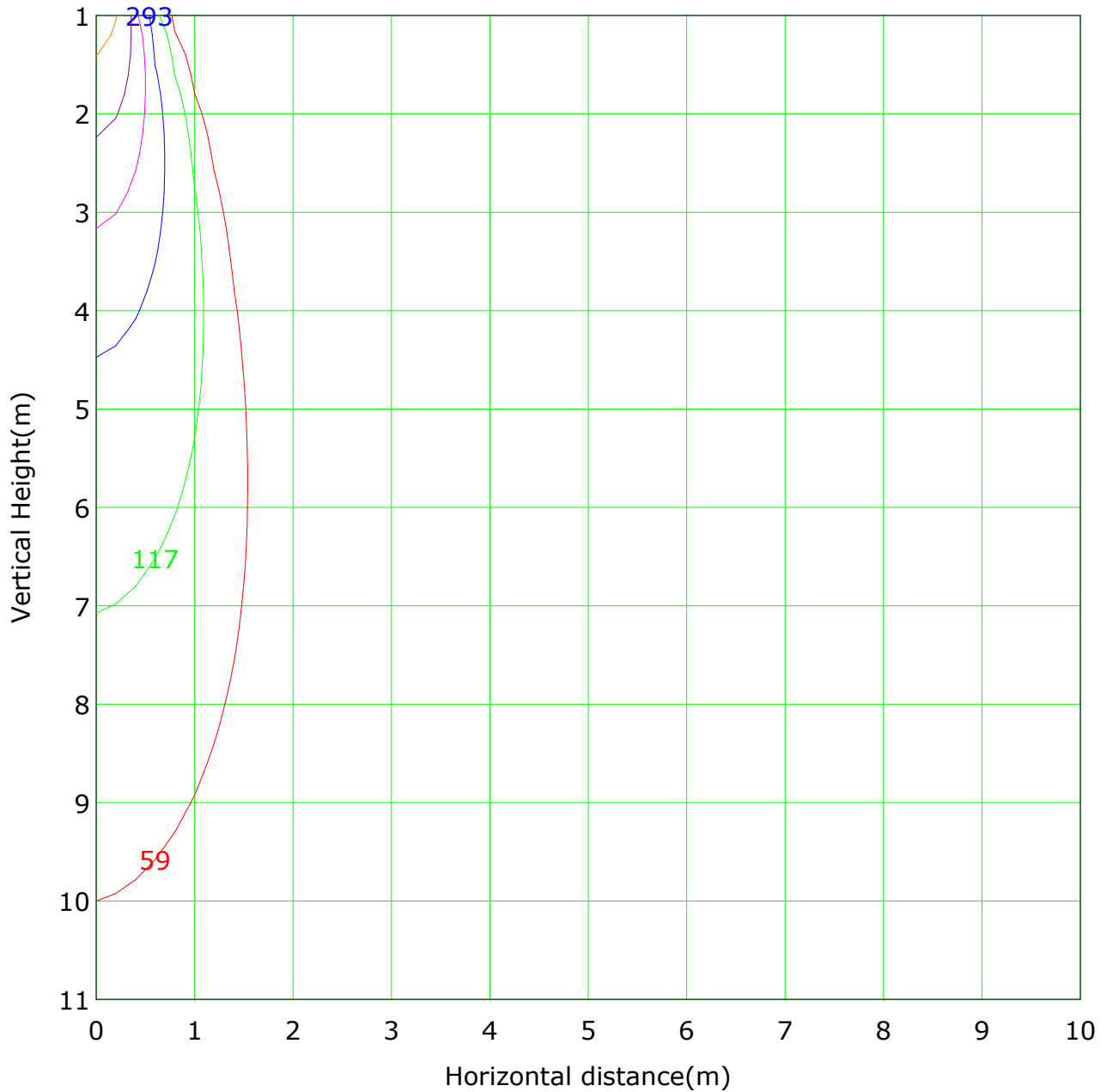
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



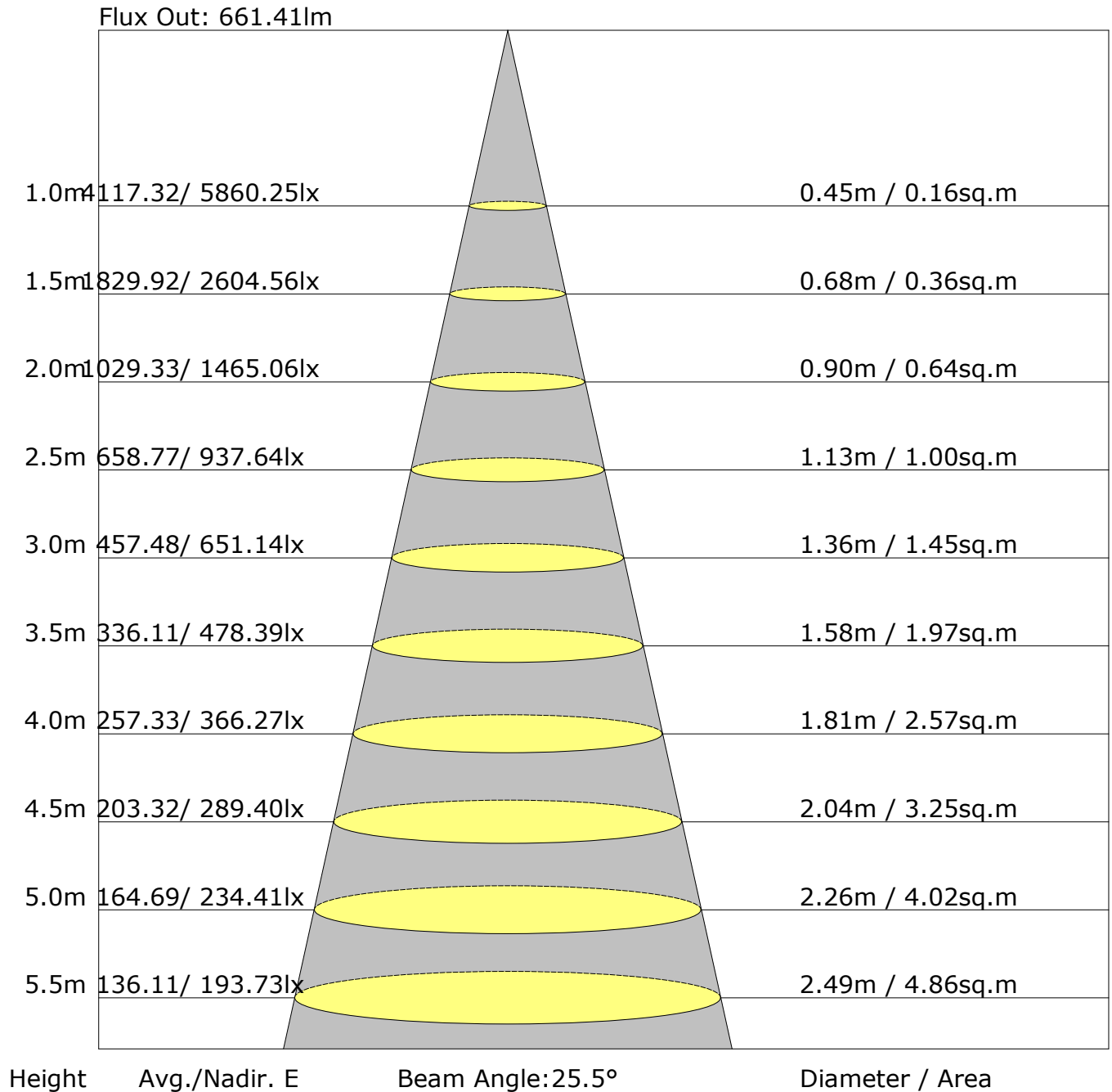
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5860.3 lx
— (1%): 58.6 lx — (2%): 117.2 lx
— (5%): 293.0 lx — (10%): 586.0 lx
— (20%): 1172.1 lx — (50%): 2930.1 lx
— (100%): 5860.3 lx

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: 3.010 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	15.3	15.9	15.5	16.1	16.3	14.8	15.5	15.1	15.7	15.9
3H	15.1	15.7	15.4	15.9	16.2	14.7	15.3	15.0	15.5	15.7
4H	15.0	15.6	15.3	15.8	16.1	14.6	15.2	14.9	15.4	15.7
6H	15.0	15.5	15.3	15.8	16.0	14.6	15.1	14.9	15.3	15.6
8H	14.9	15.4	15.3	15.7	16.0	14.5	15.0	14.9	15.3	15.6
12H	14.9	15.4	15.2	15.7	16.0	14.5	15.0	14.8	15.3	15.6
X=4H Y=2H	15.1	15.6	15.4	15.9	16.2	14.7	15.2	15.0	15.5	15.8
3H	15.0	15.4	15.3	15.7	16.0	14.6	15.0	14.9	15.3	15.6
4H	14.9	15.3	15.2	15.6	16.0	14.5	14.9	14.8	15.2	15.6
6H	14.8	15.2	15.2	15.5	15.9	14.4	14.7	14.8	15.1	15.5
8H	14.7	15.1	15.1	15.5	15.9	14.3	14.7	14.7	15.1	15.5
12H	14.7	15.0	15.1	15.4	15.8	14.3	14.6	14.7	15.0	15.4
X=8H Y=4H	14.7	15.1	15.1	15.5	15.9	14.3	14.7	14.7	15.1	15.5
6H	14.6	14.9	15.1	15.3	15.8	14.2	14.5	14.7	14.9	15.4
8H	14.6	14.8	15.1	15.3	15.7	14.2	14.4	14.6	14.9	15.3
12H	14.5	14.7	15.0	15.2	15.7	14.1	14.3	14.6	14.8	15.3
X=12H Y=4H	14.7	15.0	15.1	15.4	15.8	14.3	14.6	14.7	15.0	15.4
6H	14.6	14.8	15.1	15.3	15.7	14.2	14.4	14.6	14.9	15.3
8H	14.5	14.7	15.0	15.2	15.7	14.1	14.3	14.6	14.8	15.3
Variations with the observer position at spacings:										
S=1.0H	+3.2/-4.7					+3.1/-4.3				
S=1.5H	+5.8/-34.5					+5.5/-24.7				
S=2.0H	+7.7/-1.\$					+7.5/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 1391lm ($8\log(F/F_0) = 1.1$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	687	49.4
	FL (0°-30°)	629	45.2
	FM (30°-60°)	58	4.1
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	704	50.6
	BL (0°-30°)	652	46.9
	BM (30°-60°)	51	3.7
	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)	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: 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	5847.1	5.6	5.6	0.40	0.40
1.0-2.0	5798.8	16.6	22.2	1.20	1.60
2.0-3.0	5703.8	27.3	49.5	1.96	3.56
3.0-4.0	5563.6	37.2	86.8	2.68	6.24
4.0-5.0	5384.6	46.3	133.1	3.33	9.57
5.0-6.0	5170.1	54.3	187.4	3.91	13.48
6.0-7.0	4928.9	61.2	248.6	4.40	17.88
7.0-8.0	4660.9	66.7	315.3	4.80	22.67
8.0-9.0	4364.7	70.7	386.1	5.09	27.76
9.0-10.0	4050.3	73.3	459.4	5.27	33.03
10.0-11.0	3721.6	74.4	533.8	5.35	38.38
11.0-12.0	3381.7	73.9	607.7	5.32	43.70
12.0-13.0	3036.8	72.1	679.8	5.18	48.88
13.0-14.0	2696.4	69.0	748.8	4.96	53.84
14.0-15.0	2369.3	65.1	813.9	4.68	58.52
15.0-16.0	2060.6	60.4	874.2	4.34	62.86
16.0-17.0	1773.8	55.2	929.5	3.97	66.83
17.0-18.0	1514.1	49.9	979.4	3.59	70.42
18.0-19.0	1283.8	44.7	1024.1	3.21	73.64
19.0-20.0	1083.2	39.7	1063.7	2.85	76.49
20.0-21.0	913.6	35.1	1098.8	2.52	79.01
21.0-22.0	771.9	31.0	1129.9	2.23	81.24
22.0-23.0	654.3	27.5	1157.3	1.97	83.22
23.0-24.0	557.5	24.4	1181.7	1.75	84.97
24.0-25.0	476.8	21.7	1203.4	1.56	86.53
25.0-26.0	409.3	19.3	1222.7	1.39	87.92
26.0-27.0	352.8	17.3	1240.0	1.24	89.16
27.0-28.0	303.4	15.4	1255.3	1.10	90.26
28.0-29.0	259.7	13.6	1268.9	0.98	91.24
29.0-30.0	219.4	11.8	1280.8	0.85	92.09
30.0-31.0	183.6	10.2	1291.0	0.73	92.83
31.0-32.0	155.7	8.9	1299.9	0.64	93.47
32.0-33.0	133.8	7.9	1307.8	0.57	94.04
33.0-34.0	115.0	7.0	1314.7	0.50	94.54
34.0-35.0	100.6	6.3	1321.0	0.45	94.98
35.0-36.0	90.1	5.7	1326.7	0.41	95.40

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	80.7	5.3	1332.0	0.38	95.78
37.0-38.0	72.4	4.8	1336.8	0.35	96.12
38.0-39.0	66.0	4.5	1341.3	0.32	96.45
39.0-40.0	60.3	4.2	1345.5	0.30	96.75
40.0-41.0	56.2	4.0	1349.5	0.29	97.04
41.0-42.0	51.3	3.7	1353.2	0.27	97.30
42.0-43.0	46.4	3.4	1356.7	0.25	97.55
43.0-44.0	43.3	3.3	1360.0	0.24	97.79
44.0-45.0	41.1	3.2	1363.1	0.23	98.01
45.0-46.0	39.2	3.1	1366.2	0.22	98.23
46.0-47.0	36.2	2.9	1369.1	0.21	98.44
47.0-48.0	33.2	2.7	1371.7	0.19	98.63
48.0-49.0	30.9	2.5	1374.3	0.18	98.82
49.0-50.0	28.6	2.4	1376.7	0.17	98.99
50.0-51.0	25.6	2.2	1378.8	0.16	99.14
51.0-52.0	23.0	2.0	1380.8	0.14	99.29
52.0-53.0	20.0	1.7	1382.5	0.12	99.41
53.0-54.0	17.3	1.5	1384.1	0.11	99.52
54.0-55.0	15.1	1.3	1385.4	0.10	99.62
55.0-56.0	12.8	1.2	1386.6	0.08	99.70
56.0-57.0	11.3	1.0	1387.6	0.07	99.78
57.0-58.0	9.8	0.9	1388.5	0.07	99.84
58.0-59.0	8.3	0.8	1389.3	0.06	99.90
59.0-60.0	6.0	0.6	1389.9	0.04	99.94
60.0-61.0	4.5	0.4	1390.3	0.03	99.97
61.0-62.0	3.0	0.3	1390.6	0.02	99.99
62.0-63.0	1.1	0.1	1390.7	0.01	100.00
63.0-64.0	0.4	0.0	1390.7	0.00	100.00
64.0-65.0	0.0	0.0	1390.7	0.00	100.00
65.0-66.0	0.0	0.0	1390.7	0.00	100.00
66.0-67.0	0.0	0.0	1390.7	0.00	100.00
67.0-68.0	0.0	0.0	1390.7	0.00	100.00
68.0-69.0	0.0	0.0	1390.7	0.00	100.00
69.0-70.0	0.0	0.0	1390.7	0.00	100.00
70.0-71.0	0.0	0.0	1390.7	0.00	100.00
71.0-72.0	0.0	0.0	1390.7	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: 3.010 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	5860.3	5860.3								
G1.0	5790.9	5876.8								
G2.0	5674.8	5852.7								
G3.0	5515.0	5772.8								
G4.0	5319.0	5647.7								
G5.0	5085.3	5486.4								
G6.0	4830.5	5278.3								
G7.0	4557.6	5049.1								
G8.0	4259.1	4777.8								
G9.0	3945.5	4476.2								
G10.0	3628.9	4150.6								
G11.0	3303.3	3803.8								
G12.0	2976.1	3443.5								
G13.0	2655.0	3072.6								
G14.0	2351.9	2706.2								
G15.0	2064.0	2355.0								
G16.0	1800.1	2023.3								
G17.0	1558.9	1712.7								
G18.0	1349.3	1435.3								
G19.0	1163.9	1186.5								
G20.0	1001.1	981.5								
G21.0	859.4	812.6								
G22.0	738.8	676.9								
G23.0	633.2	568.4								
G24.0	545.8	482.5								
G25.0	467.4	411.6								
G26.0	402.5	355.8								
G27.0	343.8	309.1								
G28.0	294.0	266.9								
G29.0	253.3	224.6								
G30.0	217.1	182.4								
G31.0	183.9	150.8								
G32.0	162.8	125.1								
G33.0	140.2	107.0								
G34.0	122.1	90.5								
G35.0	108.6	81.4								
G36.0	96.5	73.9								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	85.9	66.3								
G38.0	78.4	58.8								
G39.0	72.4	54.3								
G40.0	63.3	51.3								
G41.0	61.8	48.2								
G42.0	54.3	40.7								
G43.0	51.3	39.2								
G44.0	46.7	36.2								
G45.0	45.2	36.2								
G46.0	42.2	33.2								
G47.0	39.2	30.1								
G48.0	36.2	27.1								
G49.0	33.2	27.1								
G50.0	30.1	24.1								
G51.0	25.6	22.6								
G52.0	24.1	19.6								
G53.0	19.6	16.6								
G54.0	16.6	16.6								
G55.0	13.6	13.6								
G56.0	12.1	12.1								
G57.0	10.6	10.6								
G58.0	7.5	10.6								
G59.0	7.5	7.5								
G60.0	4.5	4.5								
G61.0	4.5	4.5								
G62.0	1.5	1.5								
G63.0	0.0	1.5								
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:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Unit: cd

[illegible]

Inspector: