

Report No.:

Test Time: 2026-04-01 10:53

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 18D

Luminous Width (mm): -95

Current: 0.089 A

Power Factor: 0.949

Luminous Length (mm): -95

Voltage: 232.7 V

Power: 19.60 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1975 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H14.9

Vertical Diffuse Angle(50%): V14.9

Luminaire Efficacy Rating (LER): 100.82

Max. Intensity: 11260.67 cd

S/MH(C0/C180): 0.26

Total Rated Lamp Lumens: 1975.0 lm

Efficiency: 100%

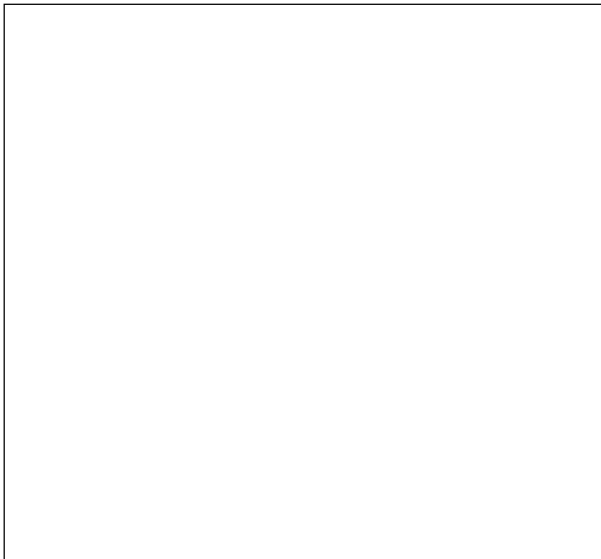
Upward Ratio: 0%

Central Intensity: 11260.67 cd

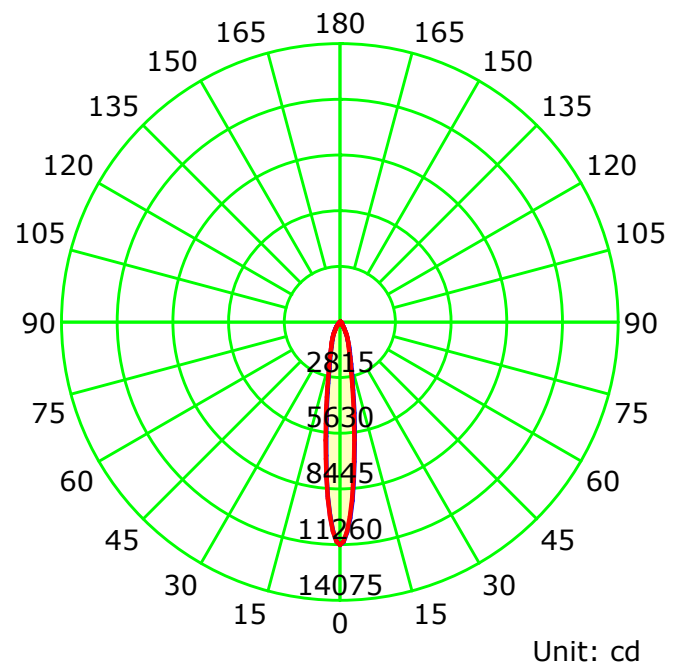
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.26

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

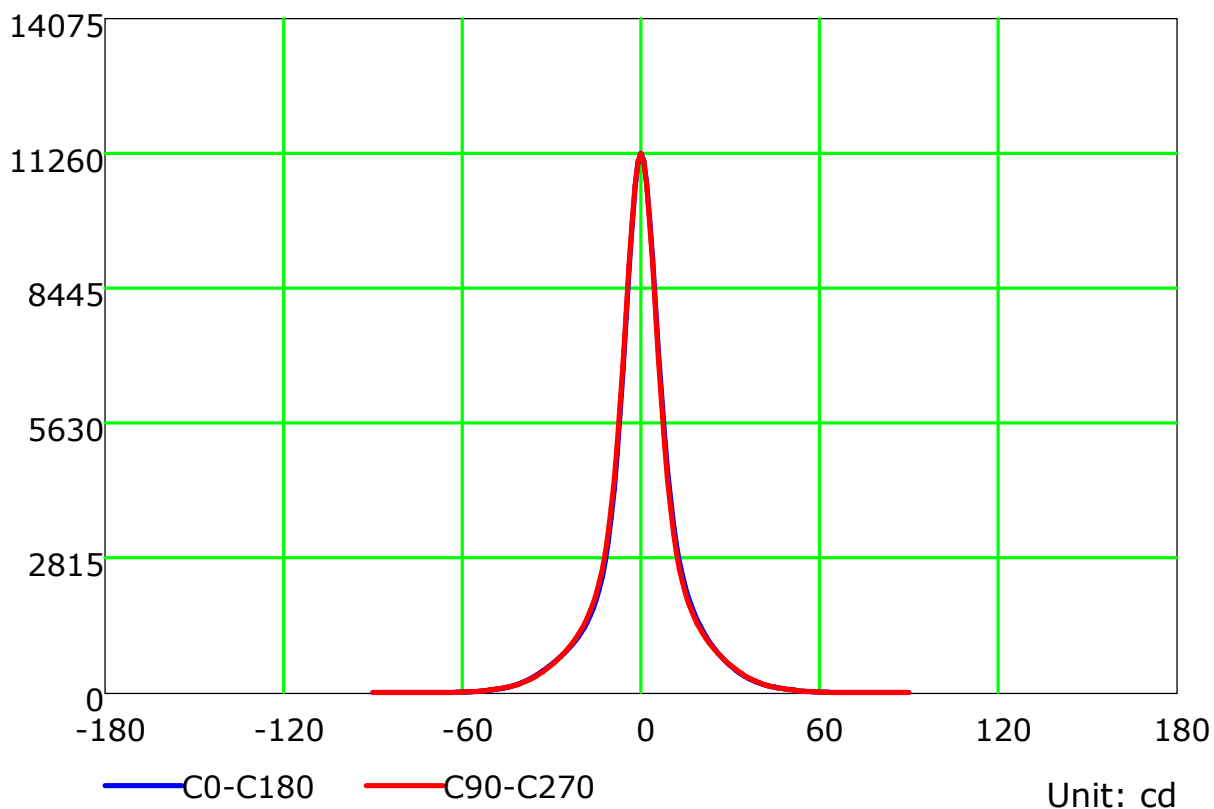
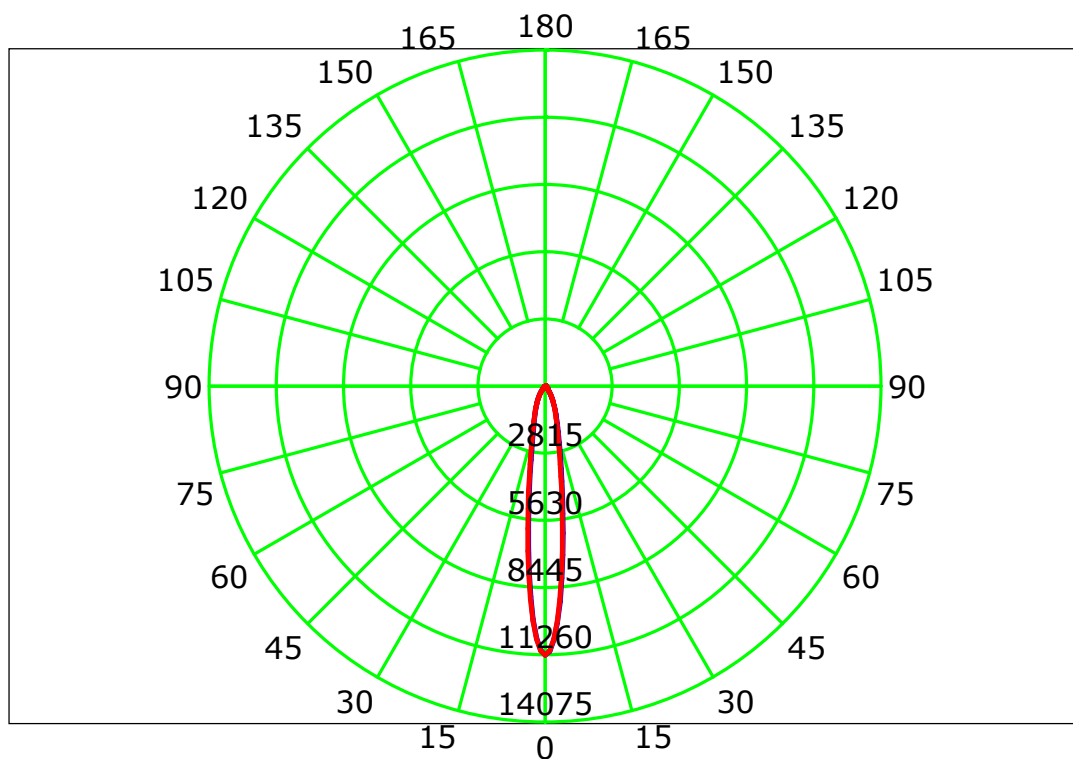
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

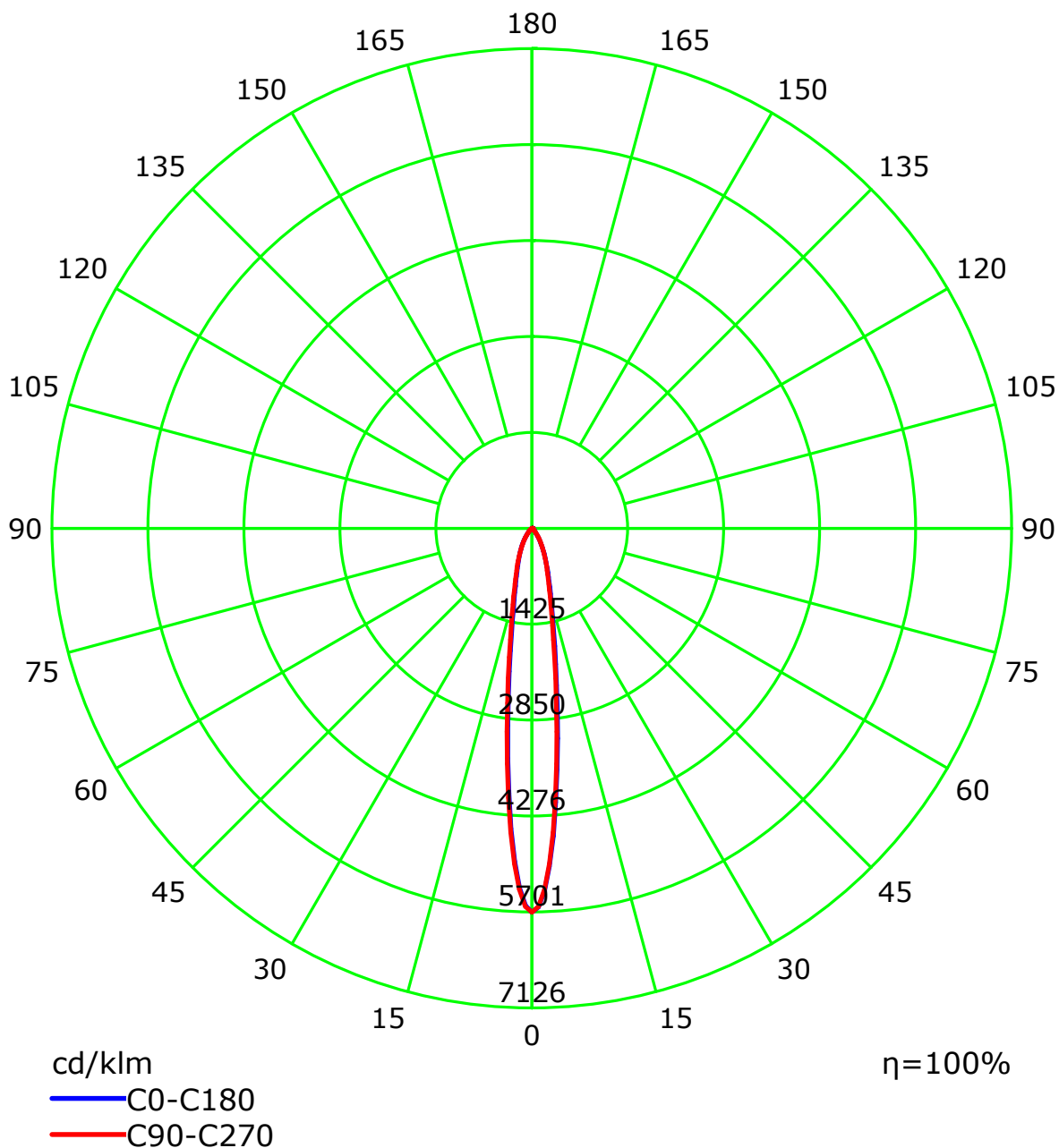
Luminous Intensity Distribution Curve



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:

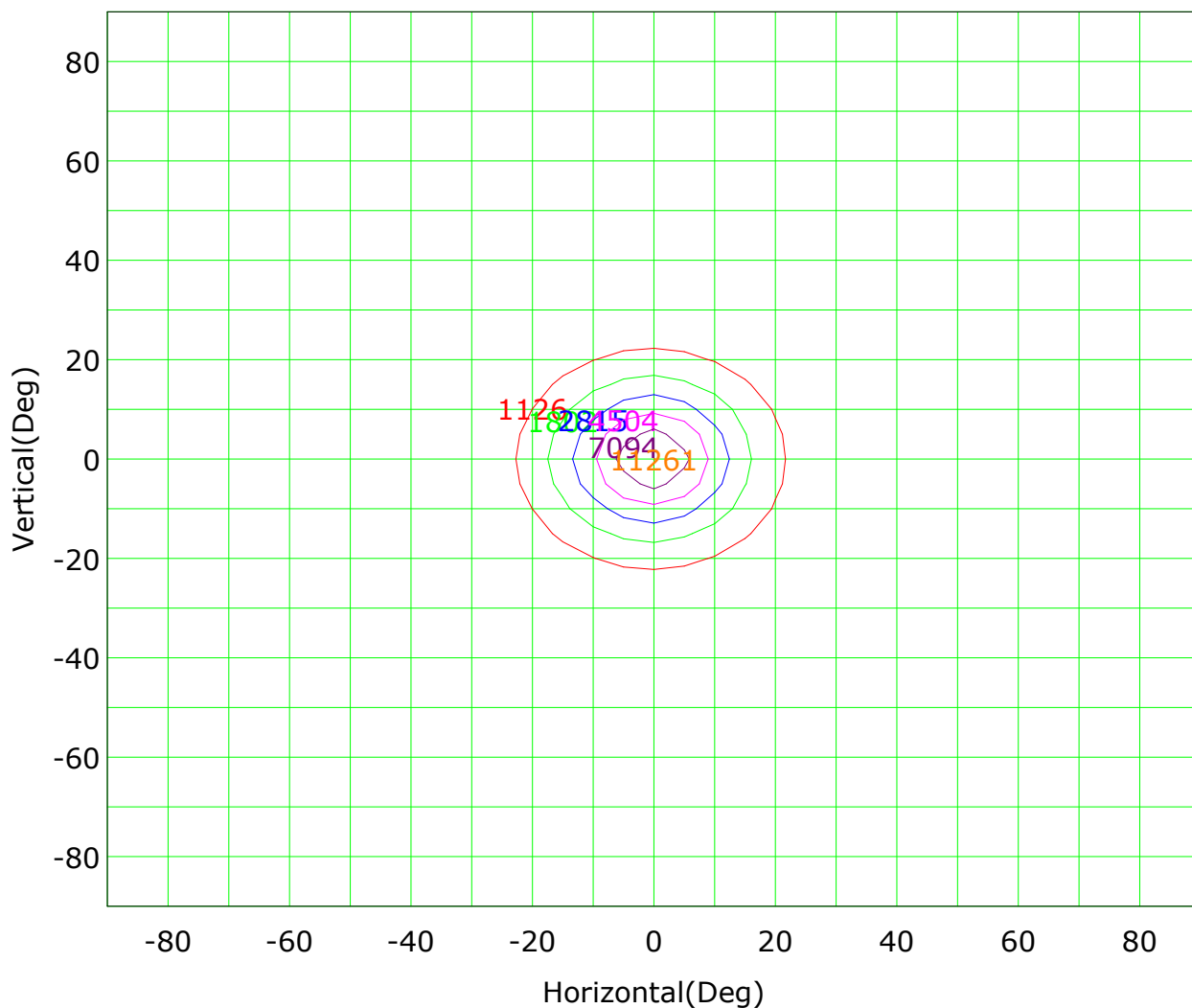
Luminous Intensity Distribution Curve(cd/klm)



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%): 11261 cd

(10%): 1126 cd	(16%): 1802 cd
(25%): 2815 cd	(40%): 4504 cd
(63%): 7094 cd	(100%): 11261 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

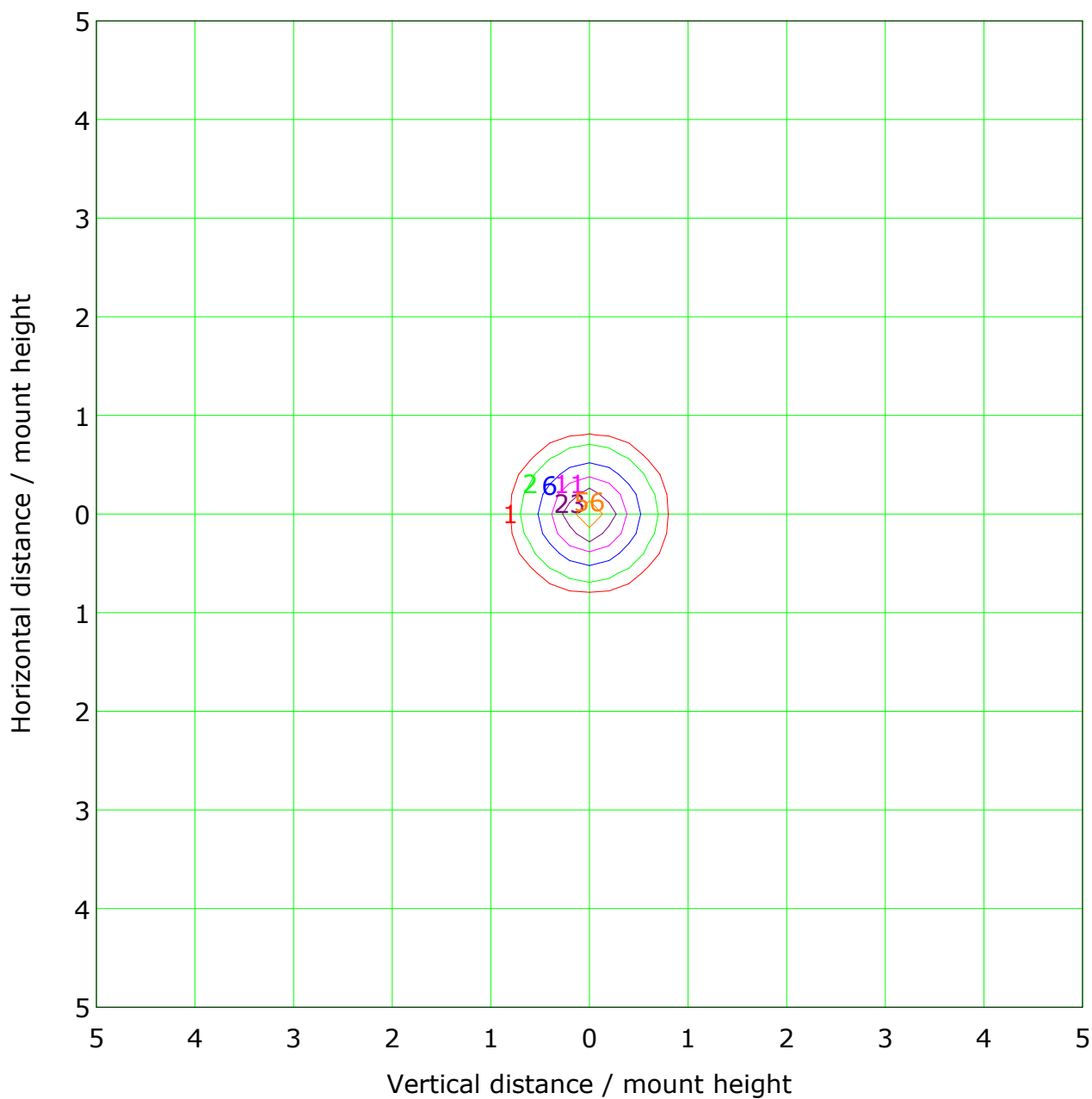
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



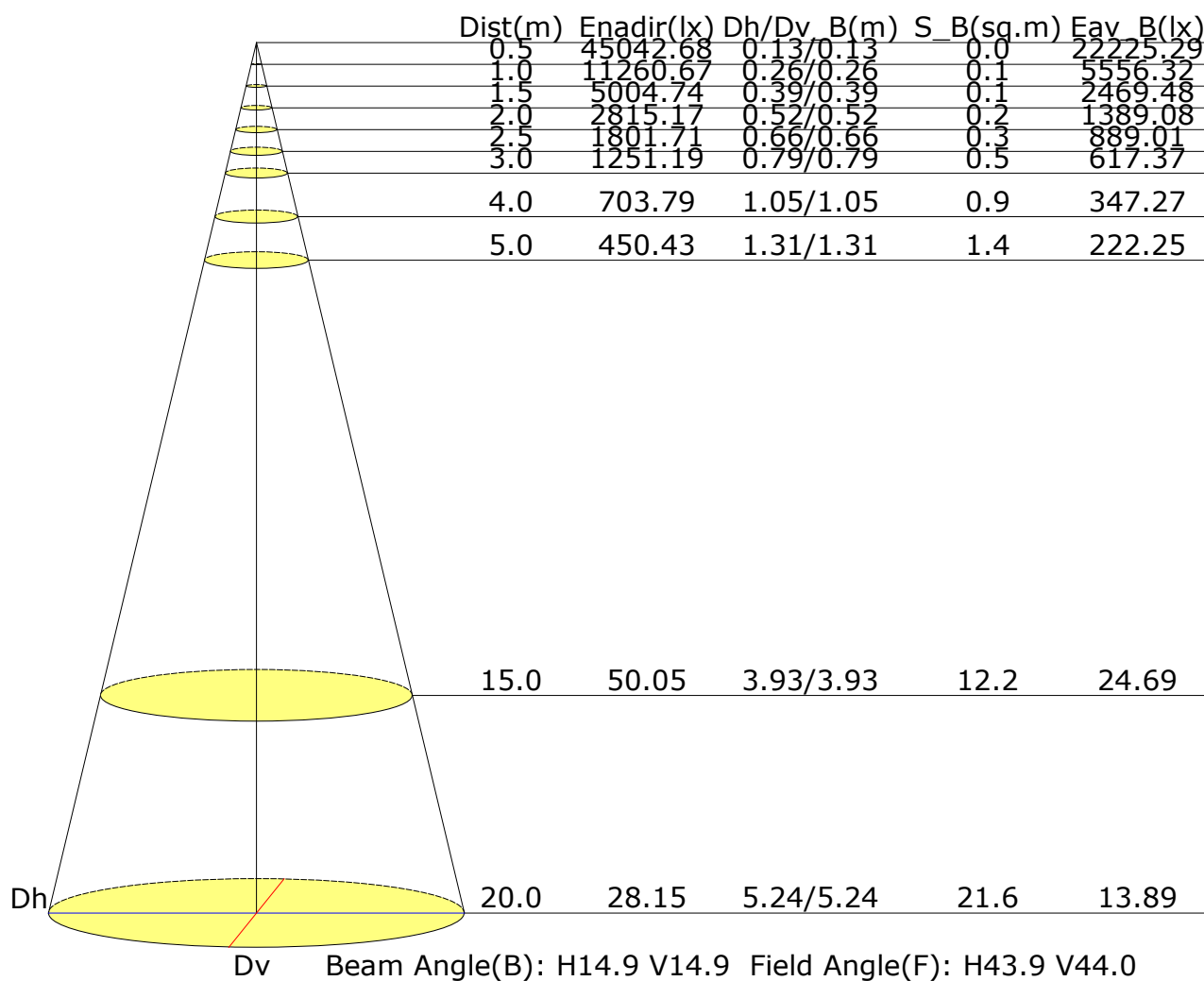
Mounting Height: 10.0m Max Lux(100%): 112.6 lx

— (1%): 1.1 lx	— (2%): 2.3 lx
— (5%): 5.6 lx	— (10%): 11.3 lx
— (20%): 22.5 lx	— (50%): 56.3 lx
— (100%): 112.6 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:

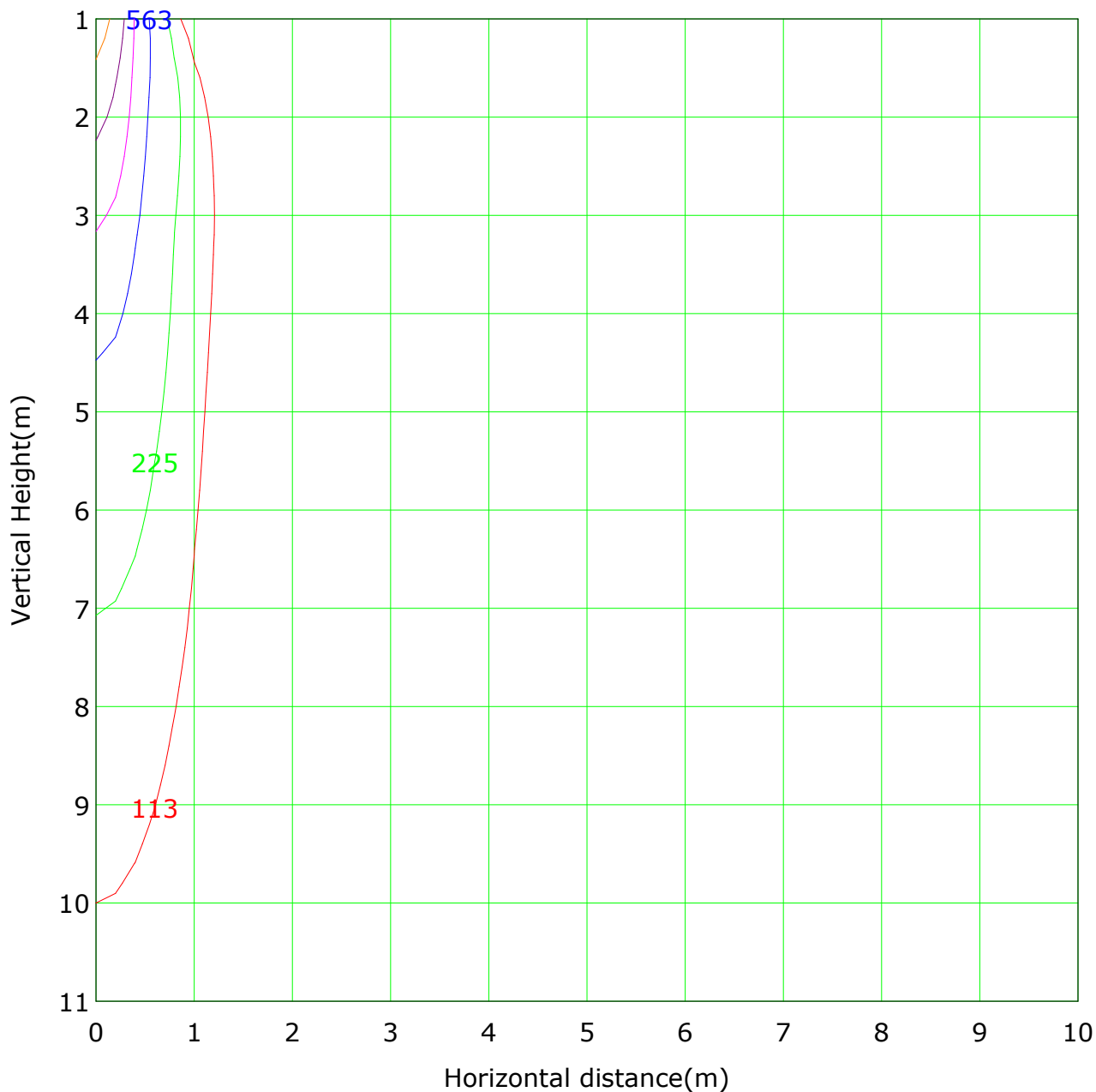
Illuminance at a Distance



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:

Vertical IsoLux Plot



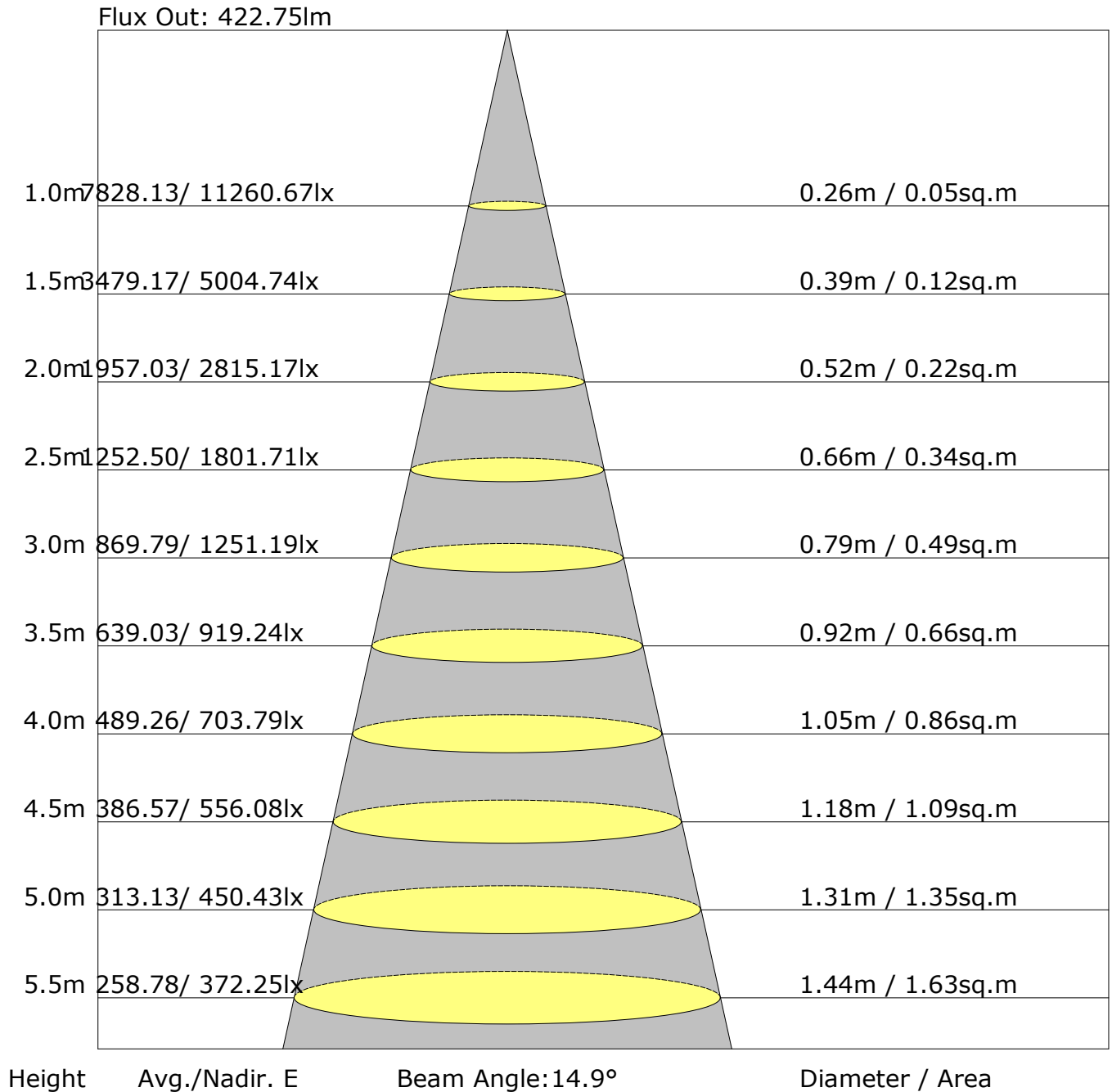
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 11260.7 lx
— (1%): 112.6 lx — (2%): 225.2 lx
— (5%): 563.0 lx — (10%): 1126.1 lx
— (20%): 2252.1 lx — (50%): 5630.3 lx
— (100%): 11260.7 lx

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:

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	16.6	17.3	16.9	17.5	17.7	16.7	17.4	16.9	17.6	17.8
3H	16.5	17.1	16.8	17.4	17.6	16.6	17.2	16.8	17.4	17.7
4H	16.4	17.0	16.7	17.3	17.5	16.5	17.1	16.8	17.3	17.6
6H	16.3	16.9	16.7	17.2	17.5	16.4	17.0	16.7	17.2	17.5
8H	16.3	16.8	16.6	17.1	17.4	16.4	16.9	16.7	17.2	17.5
12H	16.3	16.8	16.6	17.1	17.4	16.3	16.8	16.7	17.1	17.5
X=4H Y=2H	16.4	17.0	16.7	17.3	17.6	16.5	17.1	16.8	17.4	17.6
3H	16.3	16.8	16.6	17.1	17.4	16.4	16.9	16.7	17.2	17.5
4H	16.2	16.7	16.6	17.0	17.4	16.3	16.7	16.7	17.1	17.4
6H	16.1	16.5	16.5	16.9	17.3	16.2	16.6	16.6	17.0	17.4
8H	16.1	16.4	16.5	16.8	17.2	16.1	16.5	16.6	16.9	17.3
12H	16.0	16.4	16.5	16.8	17.2	16.1	16.4	16.5	16.8	17.3
X=8H Y=4H	16.1	16.4	16.5	16.8	17.2	16.1	16.5	16.6	16.9	17.3
6H	16.0	16.3	16.4	16.7	17.2	16.0	16.3	16.5	16.8	17.2
8H	15.9	16.2	16.4	16.6	17.1	16.0	16.3	16.5	16.7	17.2
12H	15.9	16.1	16.4	16.6	17.1	16.0	16.2	16.4	16.6	17.1
X=12H Y=4H	16.0	16.4	16.5	16.8	17.2	16.1	16.4	16.5	16.8	17.3
6H	15.9	16.2	16.4	16.6	17.1	16.0	16.3	16.5	16.7	17.2
8H	15.9	16.1	16.4	16.6	17.1	16.0	16.2	16.4	16.6	17.1
Variations with the observer position at spacings:										
S=1.0H	+3.7/-7.1					+3.8/-7.4				
S=1.5H	+6.3/-13.2					+6.4/-13.6				
S=2.0H	+8.3/-25.9					+8.4/-26.0				

Calculate in accordance with CIE Pub.117. The table is revised with 1975Im ($8\log(F/F_0) = 2.4$).

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: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1000	50.6
	FL (0°-30°)	828	41.9
	FM (30°-60°)	170	8.6
	FH (60°-80°)	2	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	975	49.4
	BL (0°-30°)	799	40.5
	BM (30°-60°)	173	8.8
	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)	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	11178.5	10.7	10.7	0.54	0.54
1.0-2.0	10848.7	31.1	41.8	1.58	2.12
2.0-3.0	10227.9	48.9	90.8	2.48	4.60
3.0-4.0	9398.3	62.9	153.7	3.19	7.78
4.0-5.0	8439.1	72.6	226.3	3.68	11.46
5.0-6.0	7442.9	78.2	304.5	3.96	15.42
6.0-7.0	6483.3	80.5	385.0	4.08	19.49
7.0-8.0	5600.9	80.2	465.2	4.06	23.55
8.0-9.0	4821.9	78.2	543.3	3.96	27.51
9.0-10.0	4152.8	75.2	618.5	3.81	31.32
10.0-11.0	3592.7	71.8	690.3	3.64	34.95
11.0-12.0	3131.4	68.5	758.8	3.47	38.42
12.0-13.0	2754.9	65.4	824.1	3.31	41.73
13.0-14.0	2446.9	62.6	886.8	3.17	44.90
14.0-15.0	2193.3	60.2	947.0	3.05	47.95
15.0-16.0	1979.2	58.0	1005.0	2.94	50.89
16.0-17.0	1796.7	56.0	1061.0	2.83	53.72
17.0-18.0	1640.0	54.1	1115.0	2.74	56.46
18.0-19.0	1501.6	52.3	1167.3	2.65	59.10
19.0-20.0	1379.5	50.5	1217.8	2.56	61.66
20.0-21.0	1271.3	48.8	1266.6	2.47	64.13
21.0-22.0	1172.6	47.1	1313.7	2.39	66.52
22.0-23.0	1082.1	45.4	1359.1	2.30	68.82
23.0-24.0	999.2	43.7	1402.8	2.21	71.03
24.0-25.0	922.7	42.0	1444.8	2.12	73.15
25.0-26.0	852.6	40.3	1485.1	2.04	75.19
26.0-27.0	785.1	38.4	1523.5	1.95	77.14
27.0-28.0	721.8	36.5	1560.0	1.85	78.99
28.0-29.0	663.4	34.7	1594.7	1.76	80.74
29.0-30.0	607.2	32.8	1627.5	1.66	82.40
30.0-31.0	554.8	30.9	1658.4	1.56	83.97
31.0-32.0	506.6	29.0	1687.4	1.47	85.44
32.0-33.0	460.2	27.1	1714.5	1.37	86.81
33.0-34.0	416.5	25.2	1739.7	1.28	88.09
34.0-35.0	375.0	23.3	1763.0	1.18	89.27
35.0-36.0	336.2	21.4	1784.4	1.08	90.35

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	301.5	19.7	1804.1	1.00	91.35
37.0-38.0	270.2	18.0	1822.2	0.91	92.26
38.0-39.0	241.6	16.5	1838.7	0.84	93.09
39.0-40.0	214.5	15.0	1853.6	0.76	93.85
40.0-41.0	188.8	13.4	1867.1	0.68	94.53
41.0-42.0	167.4	12.2	1879.2	0.62	95.15
42.0-43.0	149.6	11.1	1890.3	0.56	95.71
43.0-44.0	133.1	10.0	1900.3	0.51	96.22
44.0-45.0	119.1	9.2	1909.5	0.46	96.68
45.0-46.0	106.3	8.3	1917.8	0.42	97.10
46.0-47.0	93.9	7.5	1925.3	0.38	97.48
47.0-48.0	84.8	6.9	1932.1	0.35	97.83
48.0-49.0	76.1	6.3	1938.4	0.32	98.14
49.0-50.0	66.7	5.6	1944.0	0.28	98.43
50.0-51.0	59.2	5.0	1949.0	0.25	98.68
51.0-52.0	50.5	4.3	1953.3	0.22	98.90
52.0-53.0	41.1	3.6	1956.9	0.18	99.08
53.0-54.0	33.9	3.0	1959.9	0.15	99.23
54.0-55.0	28.3	2.5	1962.4	0.13	99.36
55.0-56.0	24.5	2.2	1964.6	0.11	99.47
56.0-57.0	22.2	2.0	1966.6	0.10	99.57
57.0-58.0	18.8	1.7	1968.4	0.09	99.66
58.0-59.0	15.1	1.4	1969.8	0.07	99.73
59.0-60.0	12.8	1.2	1971.0	0.06	99.80
60.0-61.0	10.2	1.0	1972.0	0.05	99.84
61.0-62.0	7.9	0.8	1972.7	0.04	99.88
62.0-63.0	6.8	0.7	1973.4	0.03	99.92
63.0-64.0	5.3	0.5	1973.9	0.03	99.94
64.0-65.0	3.8	0.4	1974.3	0.02	99.96
65.0-66.0	3.0	0.3	1974.6	0.02	99.98
66.0-67.0	2.3	0.2	1974.8	0.01	99.99
67.0-68.0	1.5	0.2	1975.0	0.01	100.00
68.0-69.0	0.8	0.1	1975.0	0.00	100.00
69.0-70.0	0.0	0.0	1975.0	0.00	100.00
70.0-71.0	0.0	0.0	1975.0	0.00	100.00
71.0-72.0	0.0	0.0	1975.0	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
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	11260.7	11260.7								
G1.0	11119.0	11073.7								
G2.0	10648.6	10553.6								
G3.0	9930.9	9778.6								
G4.0	9052.0	8831.8								
G5.0	8069.0	7803.6								
G6.0	7108.6	6790.5								
G7.0	6208.5	5825.6								
G8.0	5392.9	4976.8								
G9.0	4666.2	4251.6								
G10.0	4048.1	3645.5								
G11.0	3523.4	3154.0								
G12.0	3095.2	2753.0								
G13.0	2743.9	2427.3								
G14.0	2452.9	2163.5								
G15.0	2205.7	1950.9								
G16.0	1994.6	1765.5								
G17.0	1813.7	1613.2								
G18.0	1652.4	1480.5								
G19.0	1512.2	1361.4								
G20.0	1385.5	1258.9								
G21.0	1272.5	1168.4								
G22.0	1165.4	1084.0								
G23.0	1068.9	1010.1								
G24.0	980.0	937.8								
G25.0	901.6	871.4								
G26.0	824.7	812.6								
G27.0	752.3	750.8								
G28.0	687.5	696.5								
G29.0	625.7	643.8								
G30.0	566.9	592.5								
G31.0	517.1	542.8								
G32.0	467.4	499.0								
G33.0	419.1	455.3								
G34.0	379.9	411.6								
G35.0	337.7	370.9								
G36.0	303.0	333.2								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	271.4	298.5								
G38.0	244.2	266.9								
G39.0	218.6	236.7								
G40.0	194.5	208.1								
G41.0	171.9	180.9								
G42.0	155.3	161.3								
G43.0	138.7	143.2								
G44.0	125.1	125.1								
G45.0	114.6	111.6								
G46.0	101.0	98.0								
G47.0	90.5	85.9								
G48.0	84.4	78.4								
G49.0	72.4	69.3								
G50.0	66.3	58.8								
G51.0	60.3	51.3								
G52.0	49.8	40.7								
G53.0	39.2	34.7								
G54.0	31.7	30.1								
G55.0	27.1	24.1								
G56.0	24.1	22.6								
G57.0	22.6	19.6								
G58.0	16.6	16.6								
G59.0	15.1	12.1								
G60.0	12.1	12.1								
G61.0	9.1	7.5								
G62.0	7.5	7.5								
G63.0	7.5	4.5								
G64.0	4.5	4.5								
G65.0	4.5	1.5								
G66.0	3.0	3.0								
G67.0	1.5	1.5								
G68.0	1.5	1.5								
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:

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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: