

Report No.:

Test Time: 2025-08-26 20:56

Luminaire Property

Luminaire Manufacturer:

Lamp Description: V8E F90 930

Luminous Width (mm): -46

Current: 0.098 A

Power Factor: 0.650

Luminous Length (mm): -46

Voltage: 231.6 V

Power: 14.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1365.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H53.3

Vertical Diffuse Angle(50%): V53.3

Luminaire Efficacy Rating (LER): 91.66

Max. Intensity: 2031.71 cd

S/MH(C0/C180): 0.91

Total Rated Lamp Lumens: 1365.1 lm

Efficiency: 100%

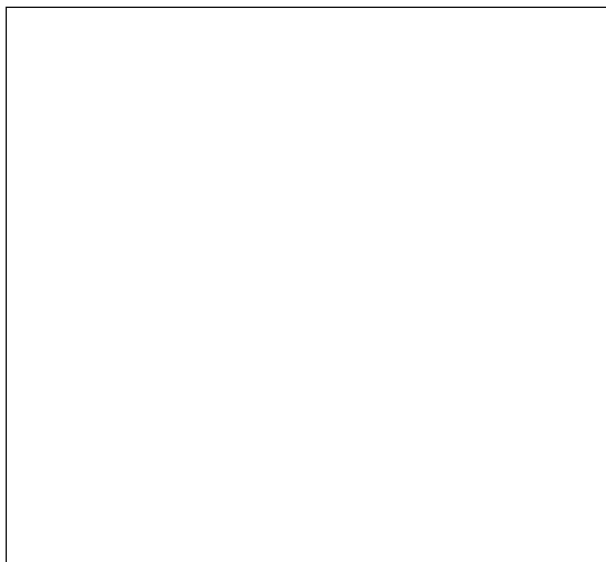
Upward Ratio: 0%

Central Intensity: 1745.3 cd

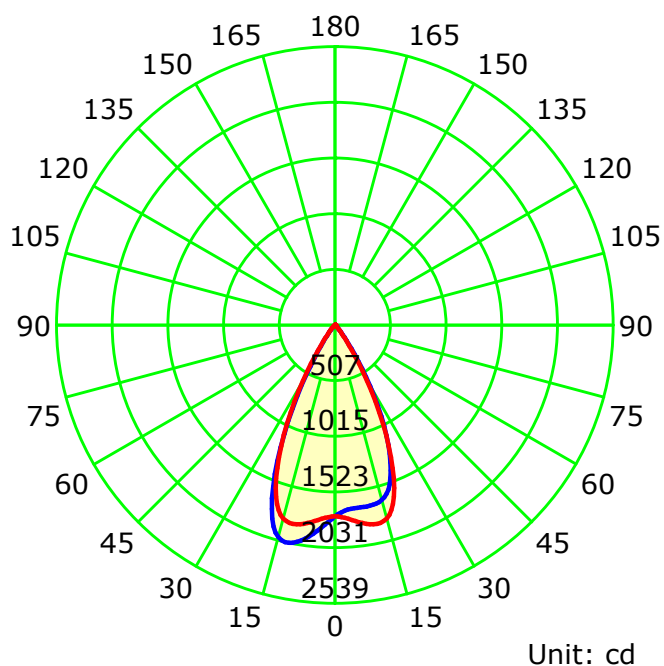
Pos of Max. Intensity: H180 V13

S/MH(C90/C270): 0.91

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

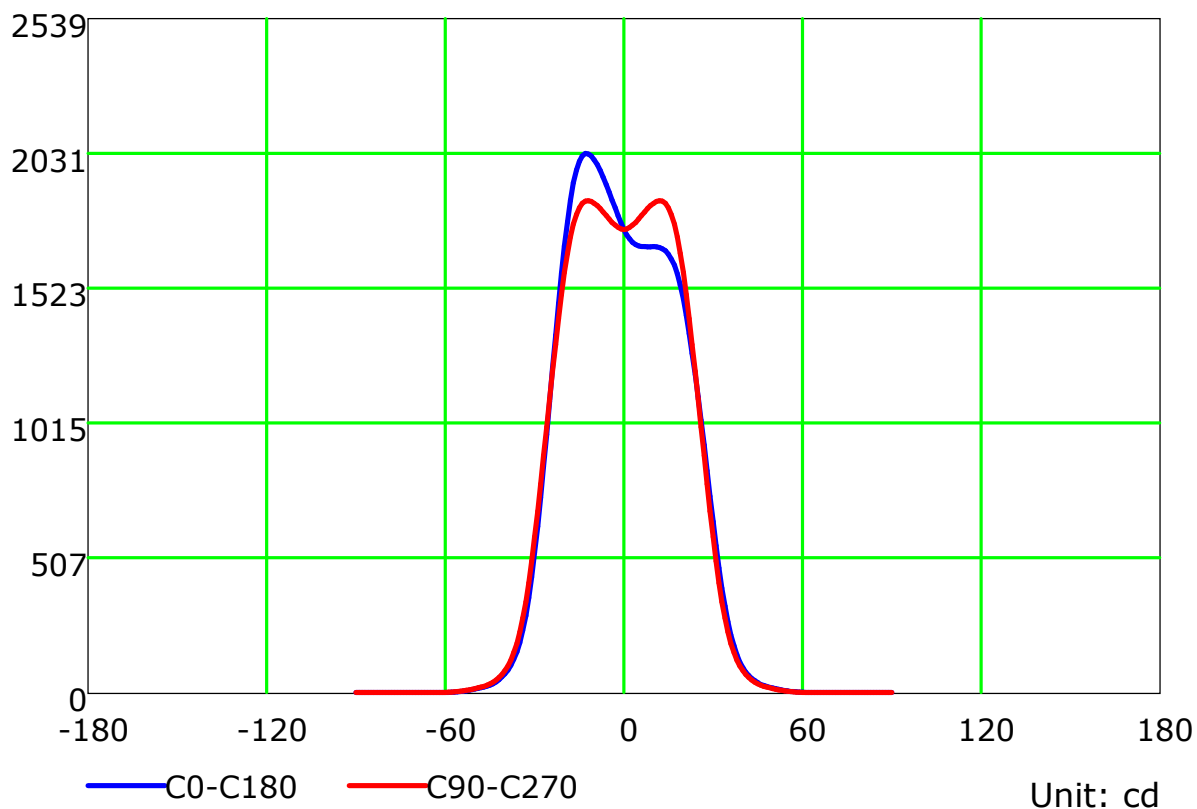
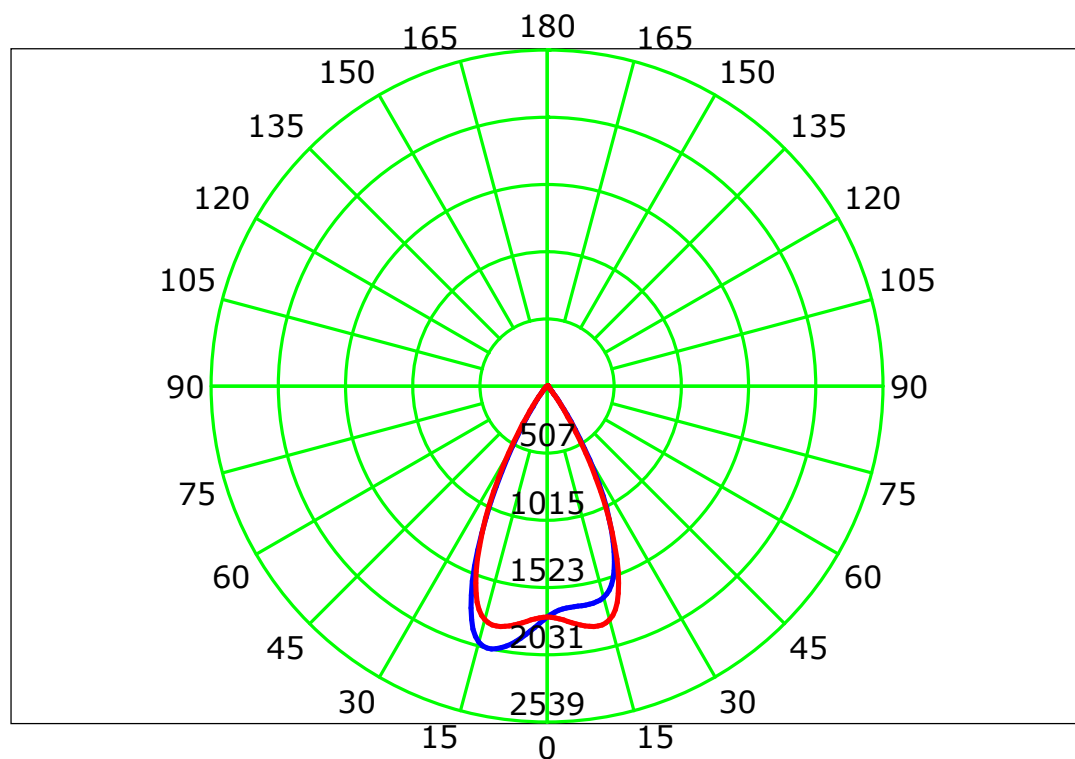
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

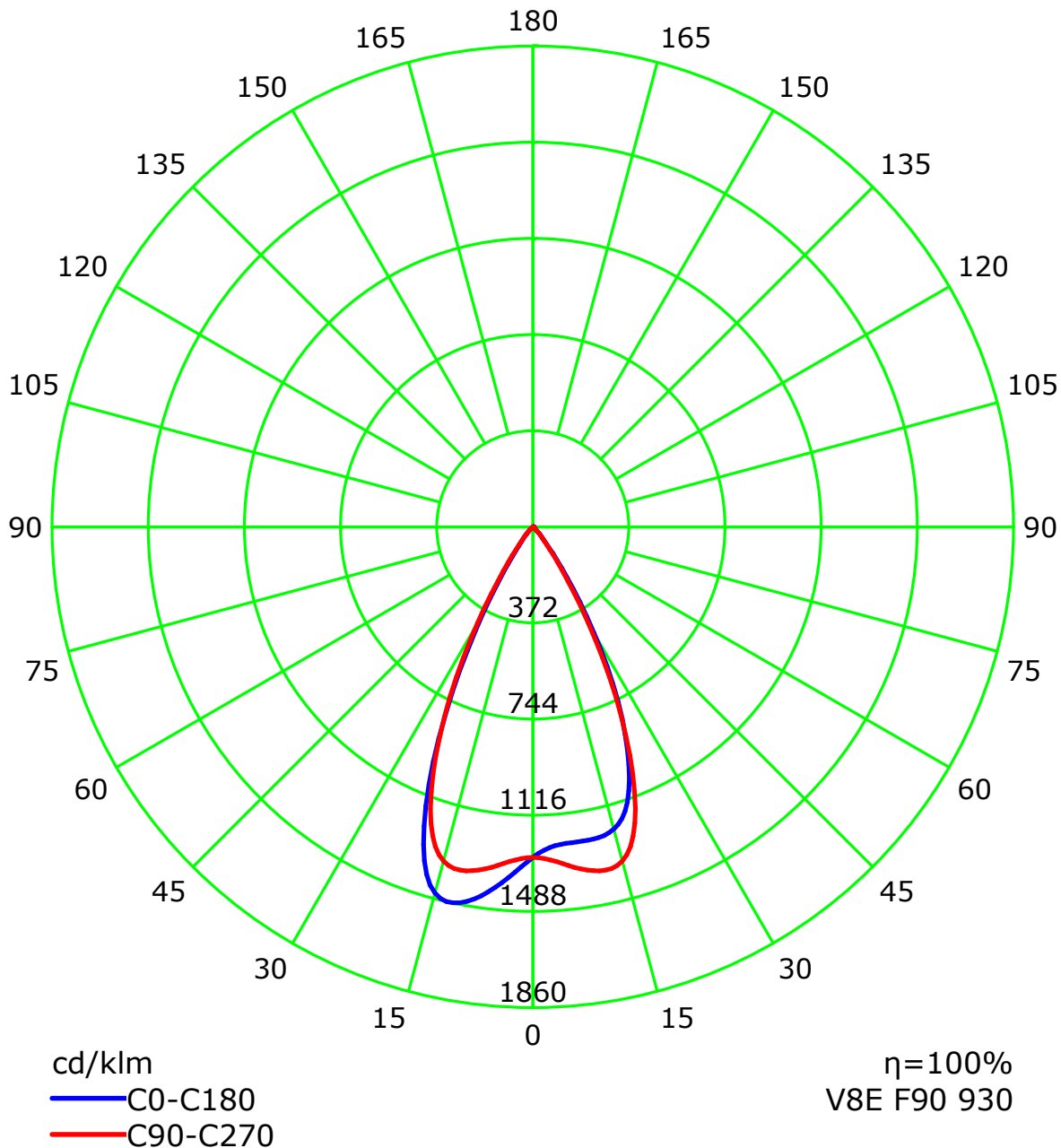


Unit: cd

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: 2.905 m
Humidity:
Inspector:

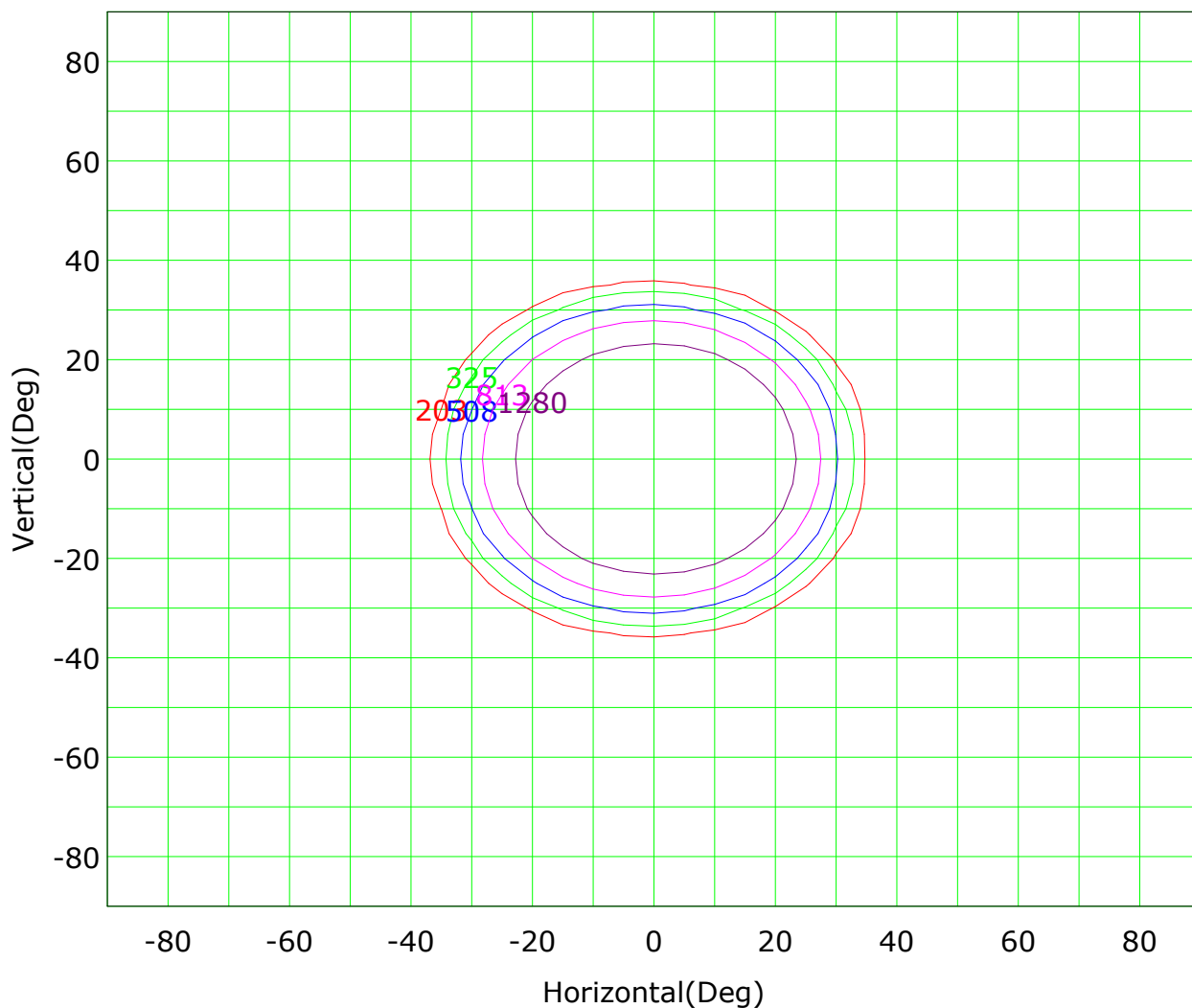
Luminous Intensity Distribution Curve(cd/klm)



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: 2.905 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 2032 cd

(10%): 203 cd	(16%): 325 cd
(25%): 508 cd	(40%): 813 cd
(63%): 1280 cd	(100%): 2032 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

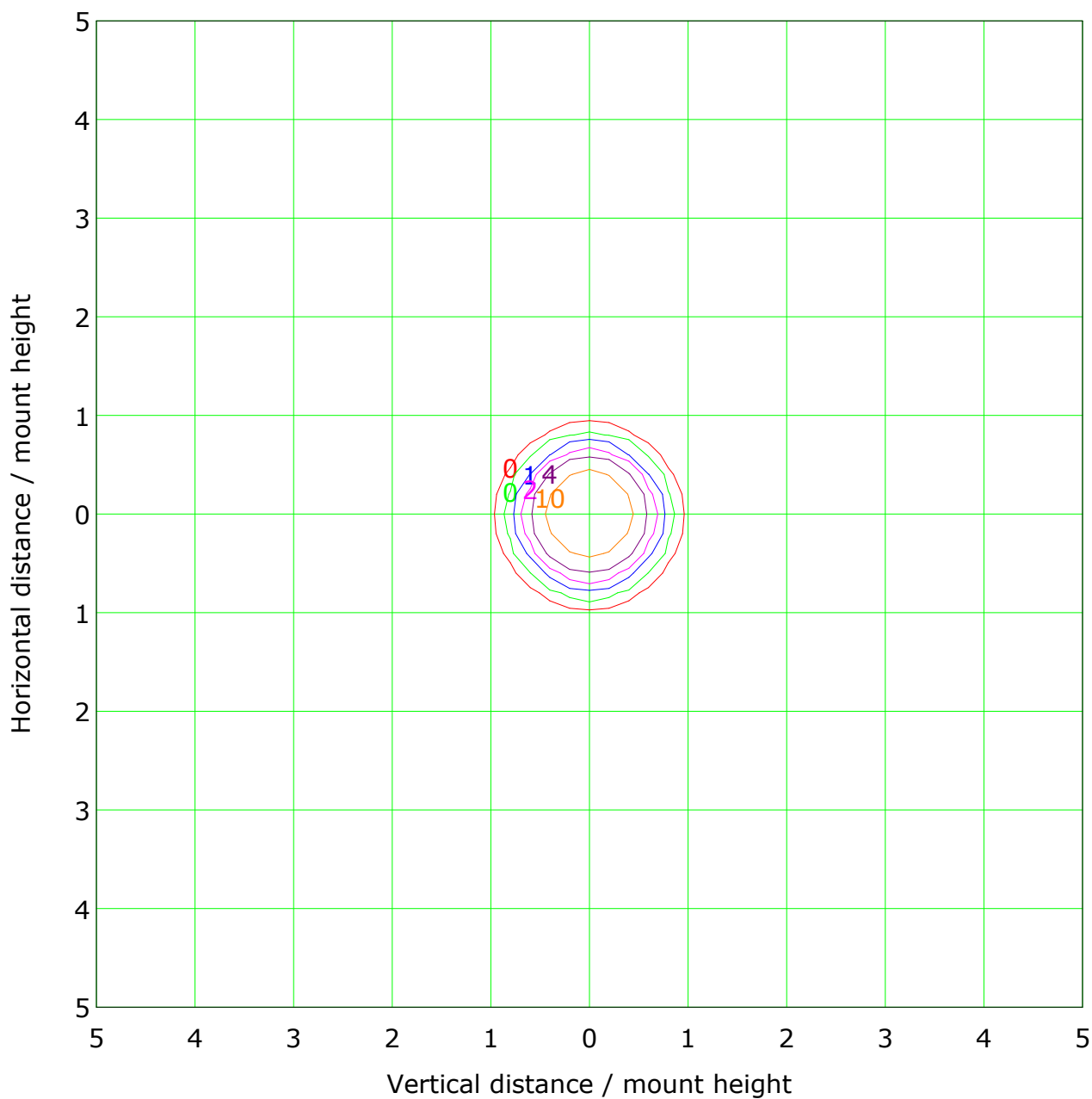
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 19.2 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 1.9 lx
(20%): 3.8 lx	(50%): 9.6 lx
(100%): 19.2 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

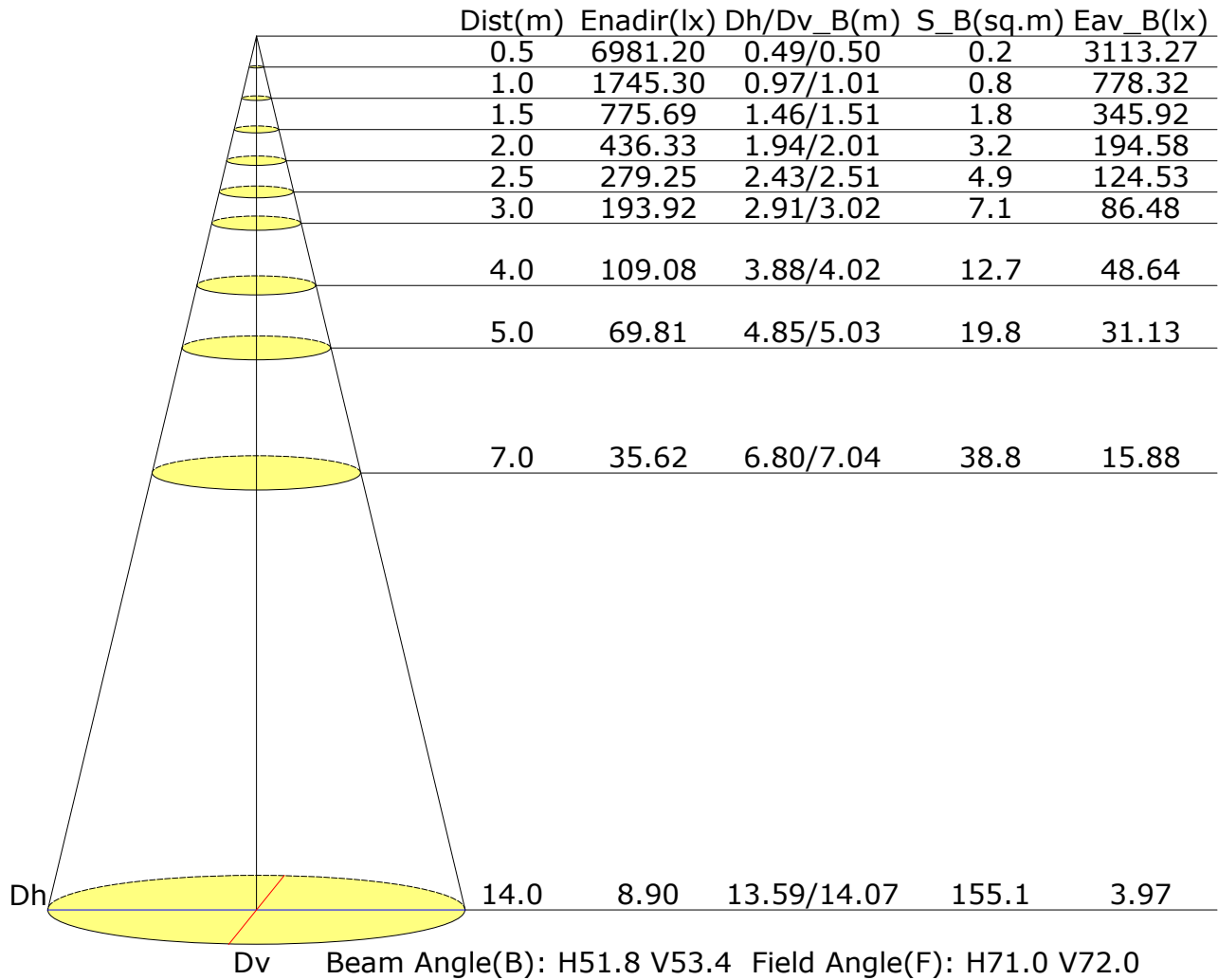
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

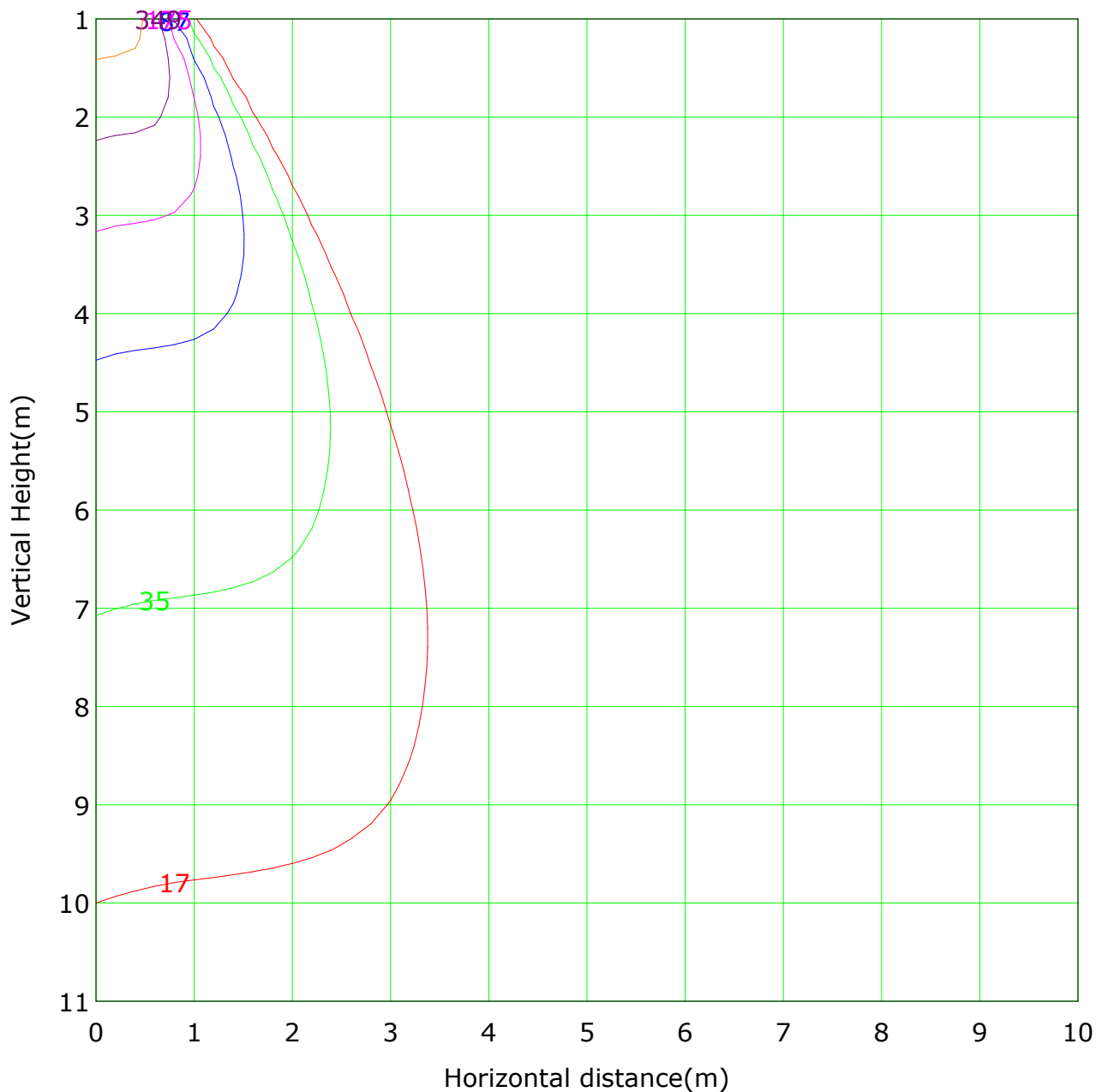
Illuminance at a Distance



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: 2.905 m
Humidity:
Inspector:

Vertical IsoLux Plot



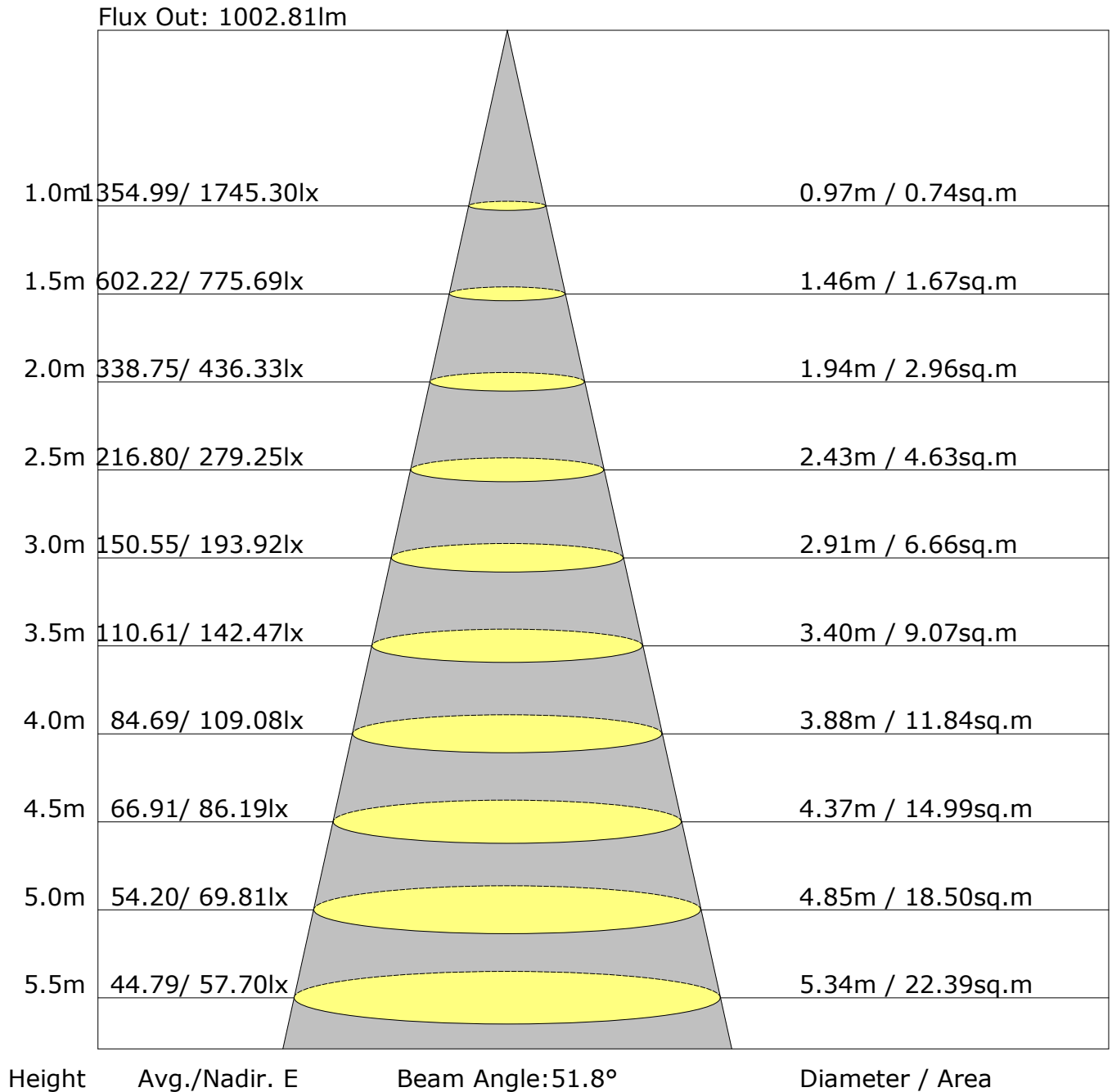
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1745.3 lx
— (1%): 17.5 lx — (2%): 34.9 lx
— (5%): 87.3 lx — (10%): 174.5 lx
— (20%): 349.1 lx — (50%): 872.7 lx
— (100%):1745.3 lx

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: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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	20.1	20.9	20.4	21.1	21.3	19.5	20.3	19.8	20.5	20.7
3H	20.0	20.7	20.3	20.9	21.2	19.4	20.1	19.7	20.3	20.6
4H	19.9	20.6	20.2	20.8	21.1	19.3	20.0	19.6	20.2	20.5
6H	19.8	20.4	20.2	20.7	21.0	19.2	19.8	19.6	20.1	20.4
8H	19.8	20.4	20.1	20.7	21.0	19.2	19.8	19.5	20.1	20.4
12H	19.8	20.3	20.1	20.6	20.9	19.2	19.7	19.5	20.0	20.3
X=4H Y=2H	19.9	20.6	20.2	20.8	21.1	19.3	20.0	19.6	20.2	20.5
3H	19.8	20.3	20.1	20.6	20.9	19.2	19.7	19.5	20.0	20.3
4H	19.7	20.2	20.1	20.5	20.9	19.1	19.6	19.5	19.9	20.3
6H	19.6	20.0	20.0	20.4	20.8	19.0	19.4	19.4	19.8	20.2
8H	19.6	20.0	20.0	20.3	20.7	18.9	19.4	19.4	19.7	20.1
12H	19.5	19.9	19.9	20.3	20.7	18.9	19.3	19.3	19.7	20.1
X=8H Y=4H	19.6	20.0	20.0	20.3	20.7	18.9	19.4	19.4	19.7	20.1
6H	19.5	19.8	19.9	20.2	20.7	18.9	19.2	19.3	19.6	20.1
8H	19.4	19.7	19.9	20.1	20.6	18.8	19.1	19.3	19.5	20.0
12H	19.4	19.6	19.9	20.1	20.6	18.8	19.0	19.3	19.5	20.0
X=12H Y=4H	19.5	19.9	19.9	20.3	20.7	18.9	19.3	19.3	19.7	20.1
6H	19.4	19.7	19.9	20.1	20.6	18.8	19.1	19.3	19.5	20.0
8H	19.4	19.6	19.9	20.1	20.6	18.8	19.0	19.3	19.5	20.0
Variations with the observer position at spacings:										
S=1.0H	+6.0/-14.8					+5.9/-15.2				
S=1.5H	+8.8/-25.0					+8.7/-25.6				
S=2.0H	+10.8/-26.7					+10.7/-27.5				

Calculate in accordance with CIE Pub.117. The table is revised with 1365lm ($8\log(F/F_0) = 1.1$).

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: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	676	49.5
	FL (0°-30°)	571	41.9
	FM (30°-60°)	104	7.7
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	689	50.5
	BL (0°-30°)	598	43.8
	BM (30°-60°)	90	6.6
	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)	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: 2.905 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	1746.6	1.7	1.7	0.12	0.12
1.0-2.0	1750.7	5.0	6.7	0.37	0.49
2.0-3.0	1757.8	8.4	15.1	0.62	1.11
3.0-4.0	1767.1	11.8	26.9	0.87	1.97
4.0-5.0	1778.5	15.3	42.2	1.12	3.09
5.0-6.0	1791.5	18.8	61.1	1.38	4.47
6.0-7.0	1805.0	22.4	83.5	1.64	6.11
7.0-8.0	1818.1	26.0	109.5	1.91	8.02
8.0-9.0	1829.9	29.7	139.2	2.17	10.19
9.0-10.0	1839.9	33.3	172.5	2.44	12.63
10.0-11.0	1847.7	36.9	209.4	2.70	15.34
11.0-12.0	1852.5	40.5	249.9	2.97	18.31
12.0-13.0	1853.1	44.0	293.9	3.22	21.53
13.0-14.0	1848.0	47.3	341.2	3.47	24.99
14.0-15.0	1835.6	50.4	391.6	3.69	28.69
15.0-16.0	1814.9	53.2	444.8	3.90	32.58
16.0-17.0	1784.2	55.6	500.3	4.07	36.65
17.0-18.0	1741.4	57.4	557.8	4.21	40.86
18.0-19.0	1686.1	58.7	616.4	4.30	45.16
19.0-20.0	1619.2	59.3	675.7	4.34	49.50
20.0-21.0	1541.9	59.2	734.9	4.34	53.84
21.0-22.0	1455.3	58.5	793.4	4.28	58.12
22.0-23.0	1361.1	57.1	850.5	4.18	62.31
23.0-24.0	1261.7	55.2	905.7	4.04	66.35
24.0-25.0	1158.8	52.7	958.4	3.86	70.21
25.0-26.0	1053.4	49.7	1008.1	3.64	73.85
26.0-27.0	946.7	46.3	1054.4	3.39	77.24
27.0-28.0	839.6	42.5	1097.0	3.11	80.36
28.0-29.0	734.9	38.5	1135.4	2.82	83.18
29.0-30.0	635.1	34.3	1169.7	2.51	85.69
30.0-31.0	540.9	30.1	1199.8	2.21	87.89
31.0-32.0	454.4	26.0	1225.8	1.91	89.80
32.0-33.0	377.8	22.3	1248.1	1.63	91.43
33.0-34.0	311.2	18.8	1266.9	1.38	92.81
34.0-35.0	254.3	15.8	1282.7	1.16	93.97
35.0-36.0	207.0	13.2	1295.9	0.97	94.94

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: 2.905 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	168.4	11.0	1306.9	0.80	95.74
37.0-38.0	136.9	9.1	1316.0	0.67	96.41
38.0-39.0	111.6	7.6	1323.7	0.56	96.97
39.0-40.0	91.5	6.4	1330.0	0.47	97.43
40.0-41.0	75.4	5.4	1335.4	0.39	97.83
41.0-42.0	62.5	4.5	1340.0	0.33	98.16
42.0-43.0	52.0	3.8	1343.8	0.28	98.44
43.0-44.0	43.0	3.2	1347.0	0.24	98.68
44.0-45.0	35.8	2.8	1349.8	0.20	98.88
45.0-46.0	30.3	2.4	1352.2	0.17	99.06
46.0-47.0	25.9	2.1	1354.2	0.15	99.21
47.0-48.0	22.6	1.8	1356.1	0.13	99.34
48.0-49.0	19.6	1.6	1357.7	0.12	99.46
49.0-50.0	16.8	1.4	1359.1	0.10	99.56
50.0-51.0	14.3	1.2	1360.3	0.09	99.65
51.0-52.0	11.9	1.0	1361.3	0.07	99.72
52.0-53.0	9.6	0.8	1362.1	0.06	99.79
53.0-54.0	7.6	0.7	1362.8	0.05	99.84
54.0-55.0	5.9	0.5	1363.3	0.04	99.87
55.0-56.0	4.5	0.4	1363.7	0.03	99.90
56.0-57.0	3.3	0.3	1364.0	0.02	99.93
57.0-58.0	2.4	0.2	1364.3	0.02	99.94
58.0-59.0	1.7	0.2	1364.4	0.01	99.95
59.0-60.0	1.1	0.1	1364.5	0.01	99.96
60.0-61.0	0.8	0.1	1364.6	0.01	99.97
61.0-62.0	0.7	0.1	1364.7	0.00	99.97
62.0-63.0	0.6	0.1	1364.7	0.00	99.97
63.0-64.0	0.5	0.1	1364.8	0.00	99.98
64.0-65.0	0.5	0.0	1364.8	0.00	99.98
65.0-66.0	0.3	0.0	1364.8	0.00	99.98
66.0-67.0	0.3	0.0	1364.9	0.00	99.99
67.0-68.0	0.4	0.0	1364.9	0.00	99.99
68.0-69.0	0.4	0.0	1365.0	0.00	99.99
69.0-70.0	0.2	0.0	1365.0	0.00	99.99
70.0-71.0	0.1	0.0	1365.0	0.00	99.99
71.0-72.0	0.1	0.0	1365.0	0.00	100.00

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: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1745.3	1745.3								
G1.0	1725.2	1770.5								
G2.0	1709.6	1797.5								
G3.0	1697.3	1826.8								
G4.0	1688.0	1856.2								
G5.0	1683.3	1886.4								
G6.0	1681.4	1914.7								
G7.0	1681.1	1942.8								
G8.0	1680.0	1968.6								
G9.0	1680.4	1990.6								
G10.0	1680.8	2007.8								
G11.0	1680.0	2022.2								
G12.0	1677.2	2030.4								
G13.0	1672.9	2031.7								
G14.0	1665.3	2022.2								
G15.0	1652.9	2002.1								
G16.0	1634.7	1970.0								
G17.0	1611.2	1920.8								
G18.0	1578.9	1854.8								
G19.0	1536.2	1774.4								
G20.0	1483.8	1682.4								
G21.0	1421.7	1579.6								
G22.0	1353.2	1466.6								
G23.0	1277.8	1346.7								
G24.0	1199.1	1223.3								
G25.0	1116.0	1097.0								
G26.0	1027.7	972.9								
G27.0	933.8	852.2								
G28.0	837.1	735.5								
G29.0	739.9	627.2								
G30.0	644.8	528.3								
G31.0	554.1	436.3								
G32.0	470.0	357.2								
G33.0	393.7	290.3								
G34.0	326.3	234.7								
G35.0	267.3	189.2								
G36.0	217.5	154.1								

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: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	176.5	125.6								
G38.0	142.5	103.1								
G39.0	115.5	85.3								
G40.0	94.0	71.0								
G41.0	77.2	59.3								
G42.0	64.5	49.2								
G43.0	53.8	40.3								
G44.0	45.2	32.6								
G45.0	37.6	28.0								
G46.0	31.2	24.3								
G47.0	26.9	21.4								
G48.0	23.5	18.6								
G49.0	20.4	15.9								
G50.0	17.6	13.3								
G51.0	15.1	11.1								
G52.0	12.6	8.8								
G53.0	10.2	6.8								
G54.0	8.3	5.0								
G55.0	6.4	3.9								
G56.0	4.8	2.8								
G57.0	3.6	1.8								
G58.0	2.7	1.4								
G59.0	1.8	1.0								
G60.0	1.3	0.4								
G61.0	1.0	0.4								
G62.0	0.7	0.6								
G63.0	0.7	0.3								
G64.0	0.8	0.3								
G65.0	0.4	0.3								
G66.0	0.4	0.3								
G67.0	0.4	0.3								
G68.0	0.6	0.3								
G69.0	0.4	0.3								
G70.0	0.1	0.0								
G71.0	0.1	0.0								
G72.0	0.3	0.0								
G73.0	0.3	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: 2.905 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: