

Report No.:

Test Time: 2025-08-07 09:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.04525 36D

Luminous Width (mm): -42

Current: 0.026 A

Power Factor: 0.556

Luminous Length (mm): -42

Voltage: 231.2 V

Power: 3.40 W

Photometric Results

CIE Class: Direct

Measurement Flux: 275 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H27.9

Vertical Diffuse Angle(50%): V27.9

Luminaire Efficacy Rating (LER): 80.94

Max. Intensity: 954.83 cd

S/MH(C0/C180): 0.48

Total Rated Lamp Lumens: 275.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 934.54 cd

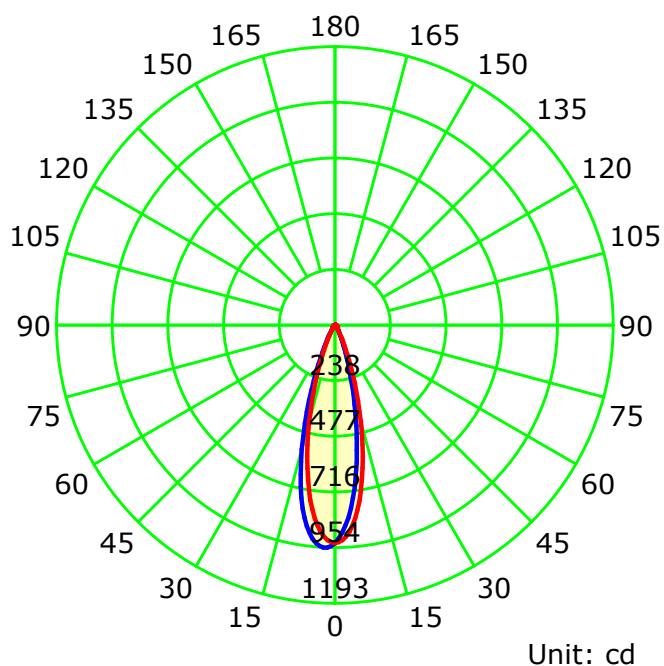
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 0.48

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

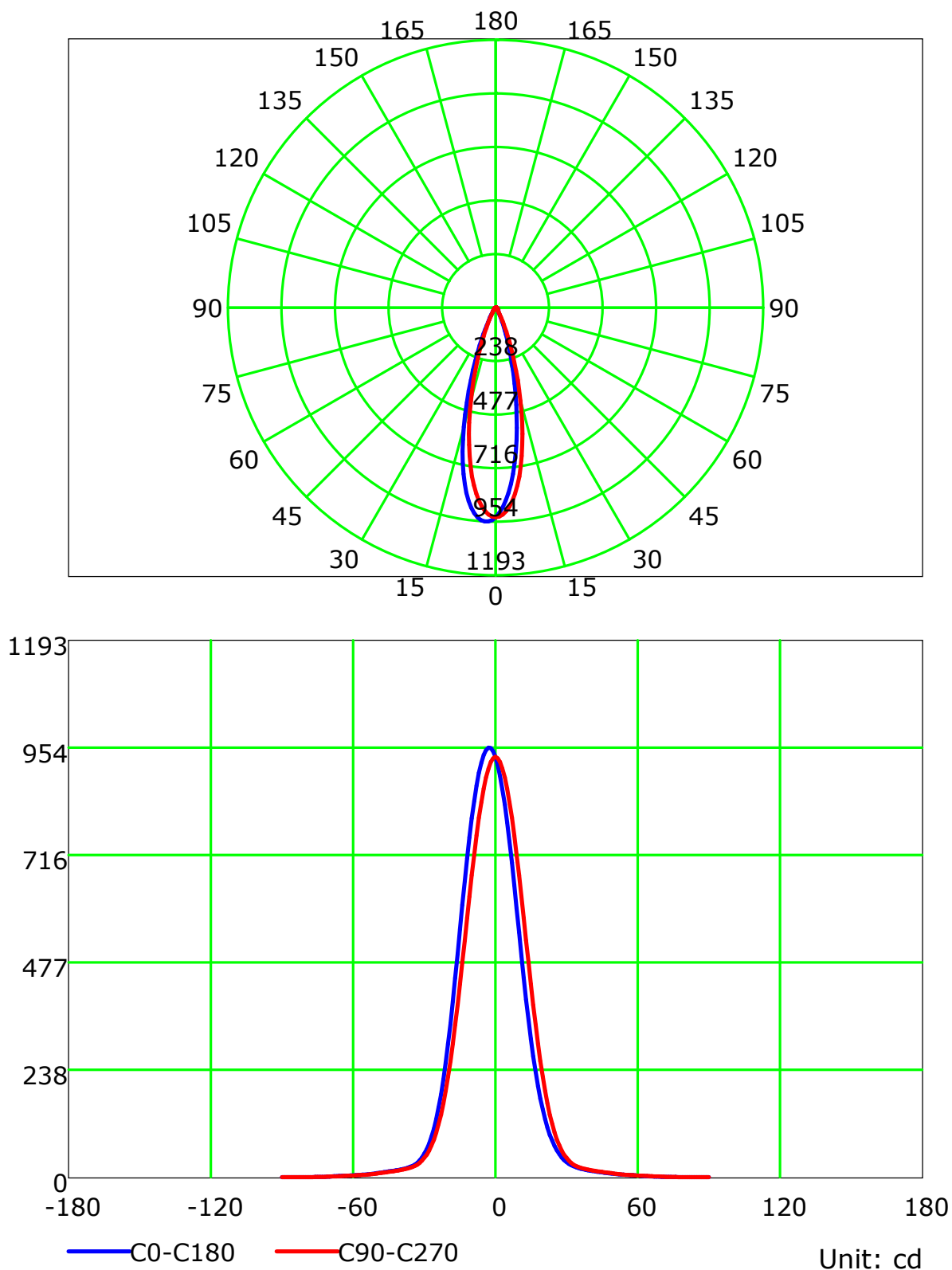
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

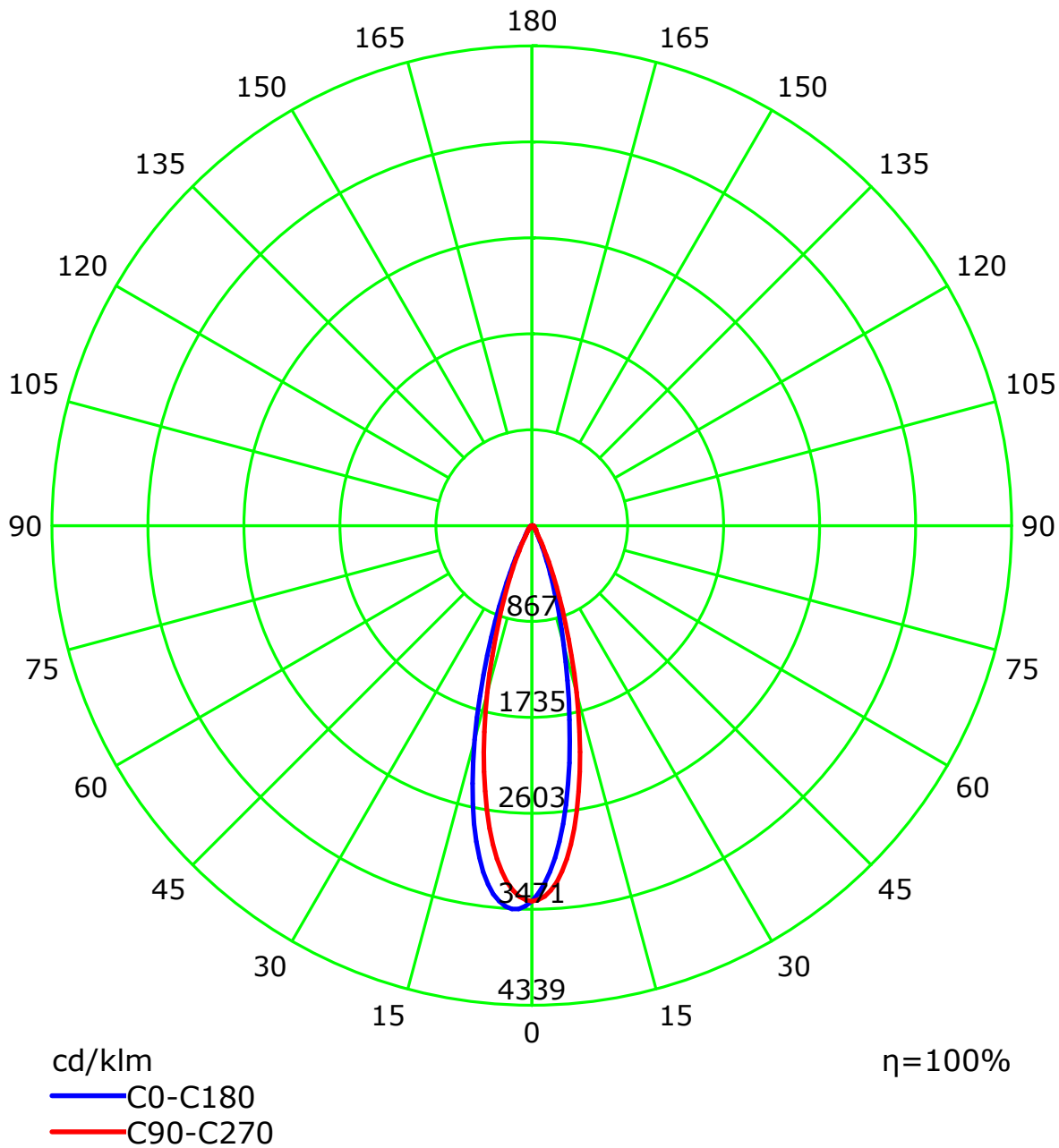
Luminous Intensity Distribution Curve



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: 3.000 m
Humidity:
Inspector:

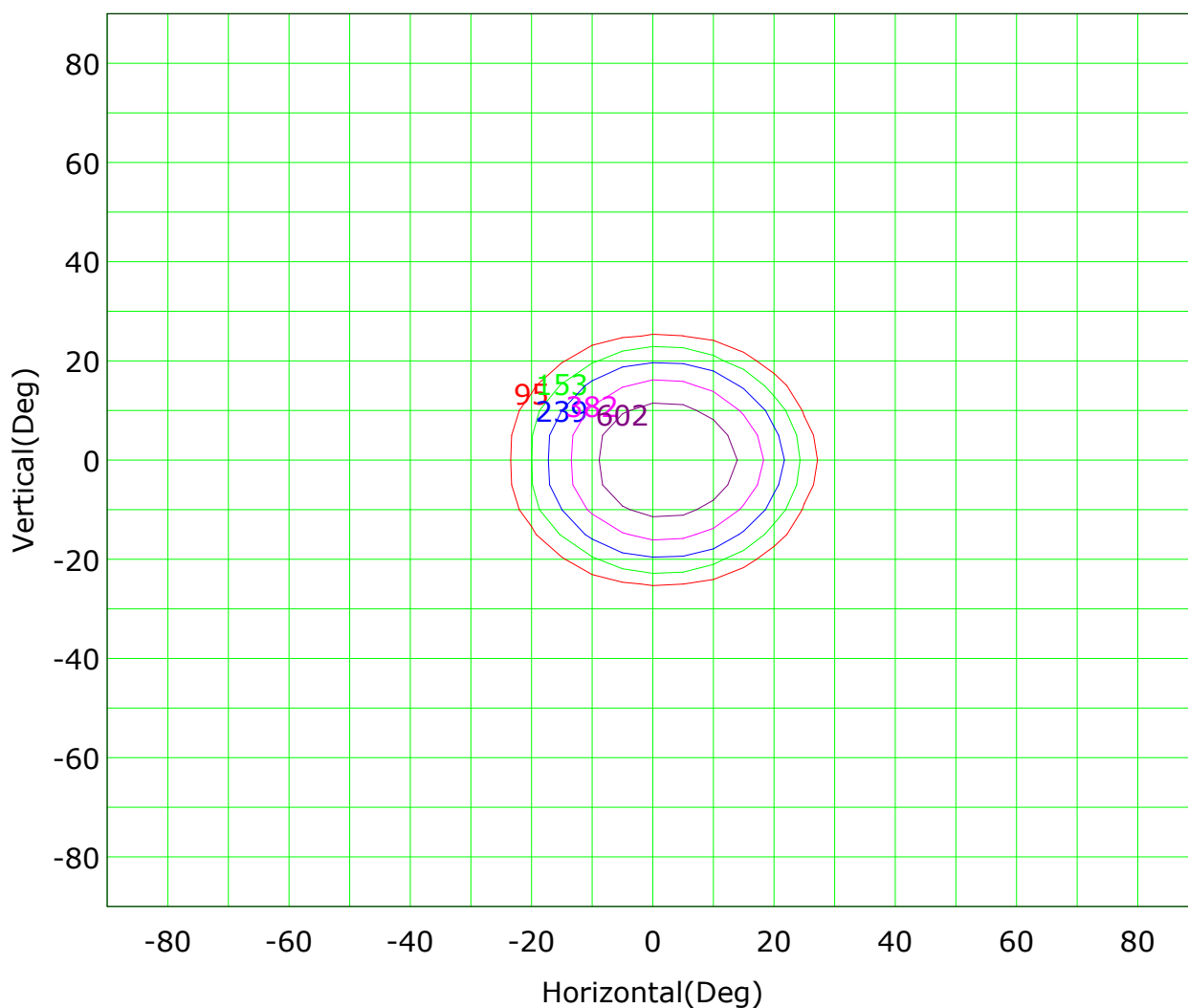
Luminous Intensity Distribution Curve(cd/klm)



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: 3.000 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 955 cd

(10%):	95 cd	(16%):	153 cd
(25%):	239 cd	(40%):	382 cd
(63%):	602 cd	(100%):	955 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

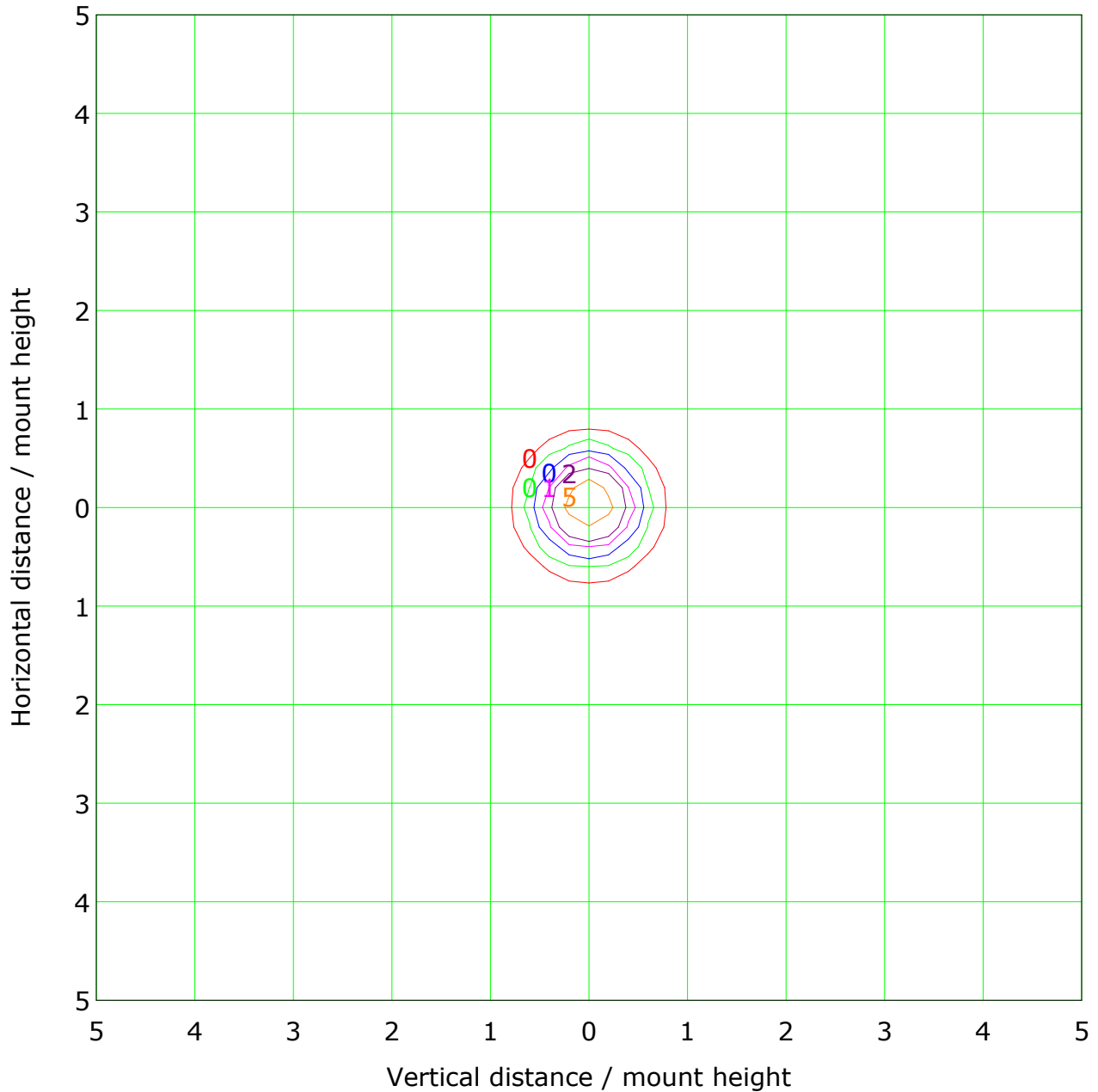
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 9.5 lx

— (1%): 0.1 lx	— (2%): 0.2 lx
— (5%): 0.5 lx	— (10%): 1.0 lx
— (20%): 1.9 lx	— (50%): 4.8 lx
— (100%): 9.5 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

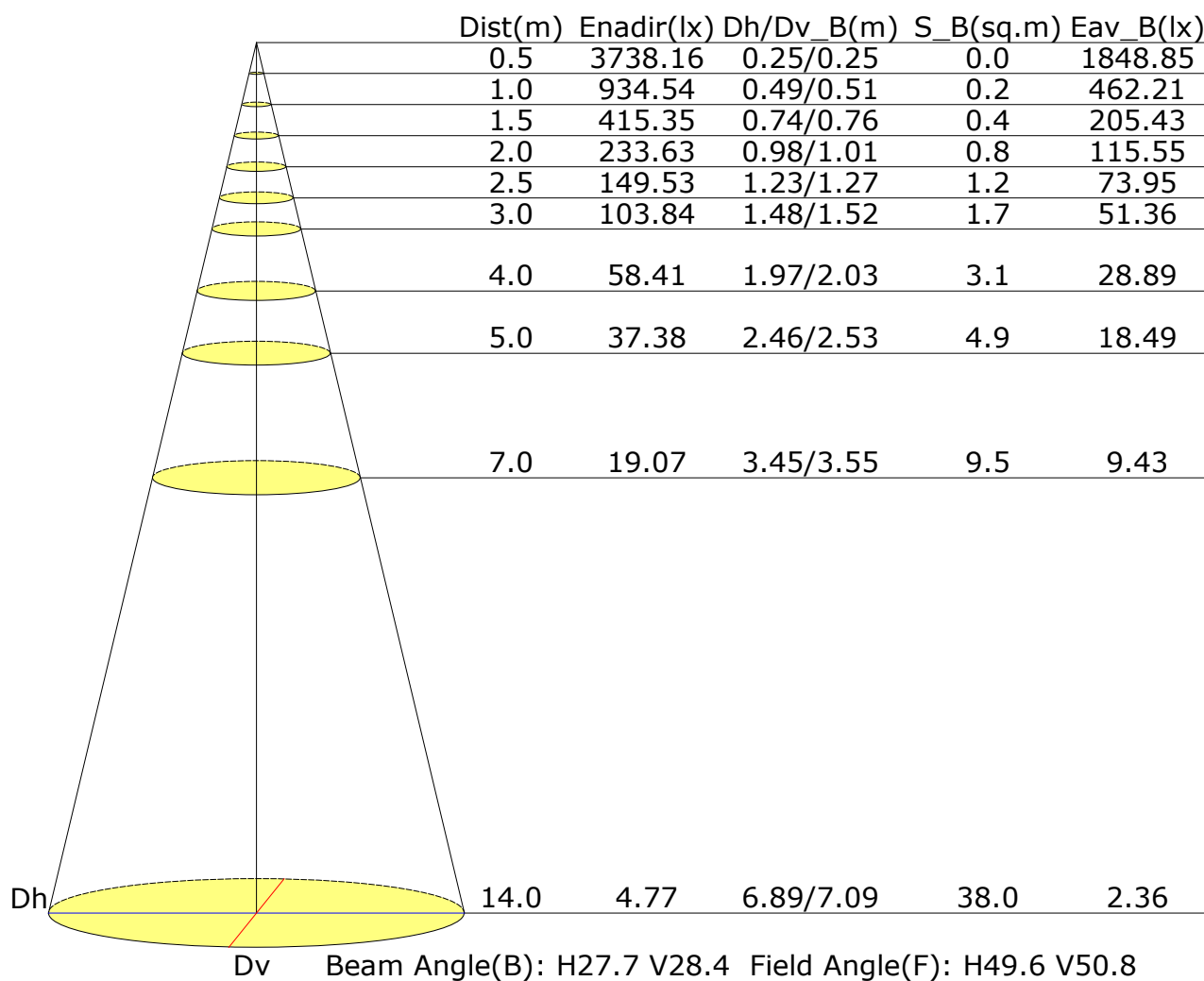
Test Device: CHL-6E

Distance: 3.000 m

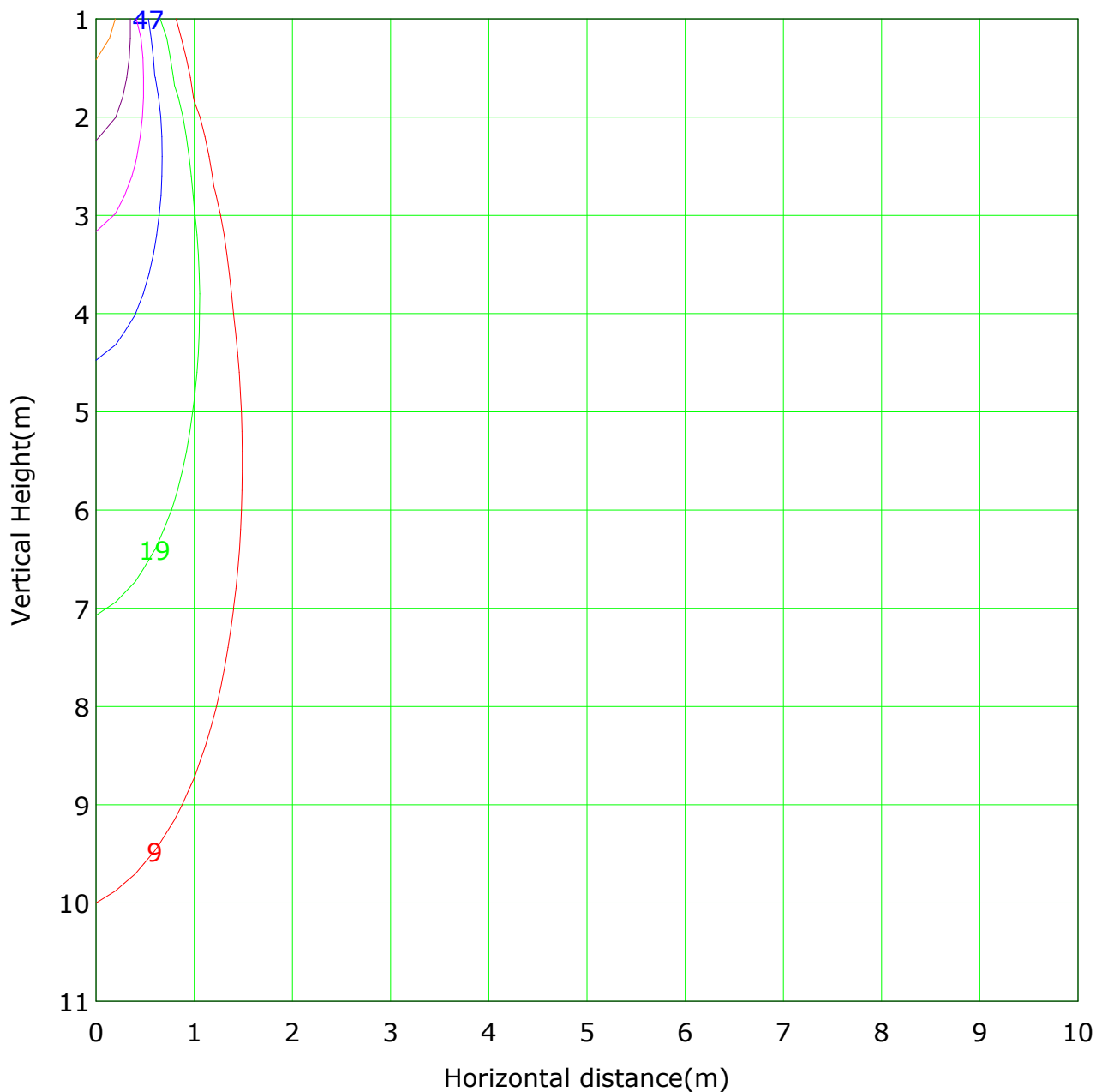
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



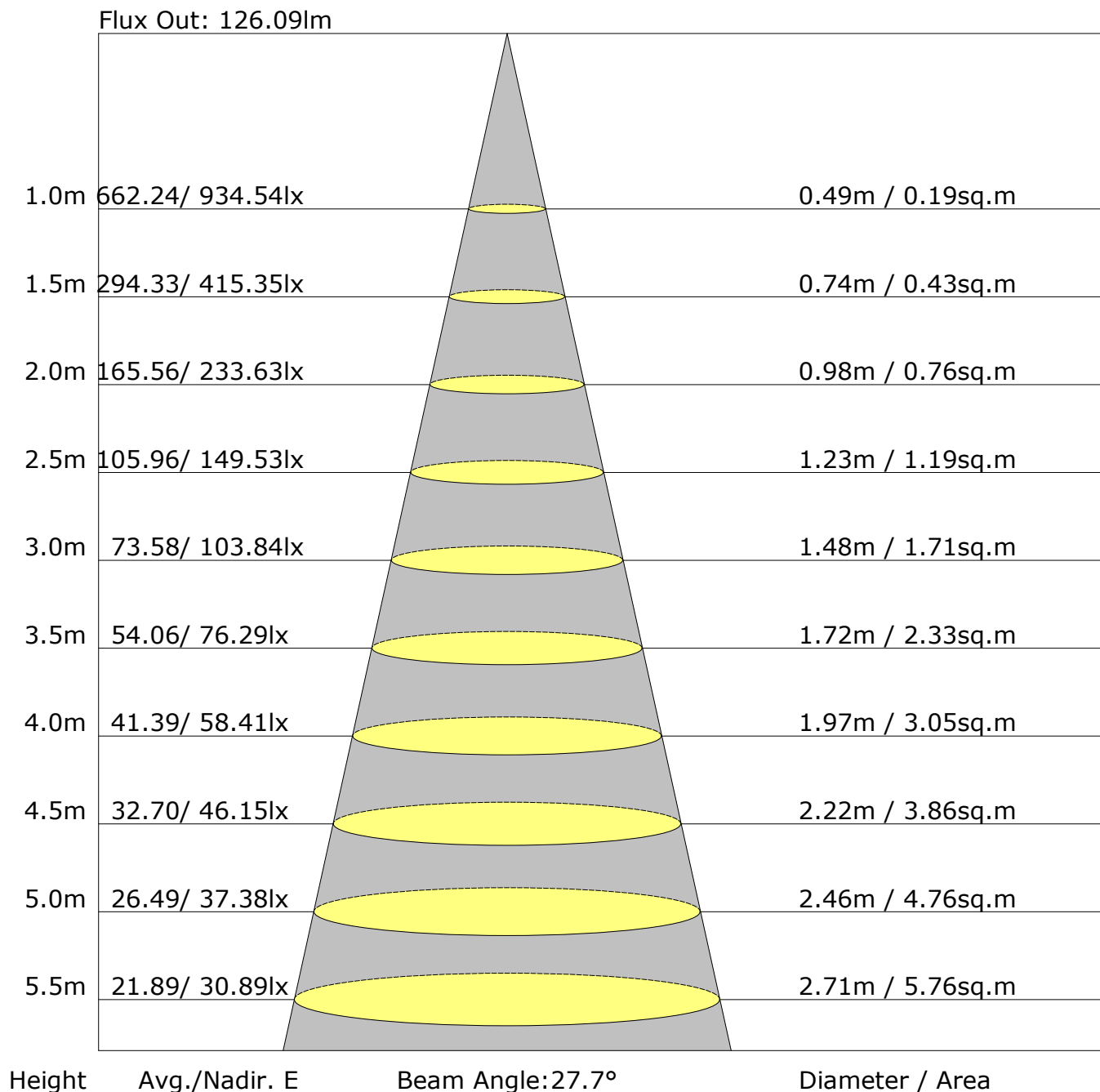
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 934.5 lx
— (1%): 9.3 lx — (2%): 18.7 lx
— (5%): 46.7 lx — (10%): 93.5 lx
— (20%): 186.9 lx — (50%): 467.3 lx
— (100%): 934.5 lx

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: 3.000 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.000 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: 3.000 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	13.0	13.7	13.3	13.9	14.1	13.4	14.1	13.6	14.3	14.5
3H	13.2	13.9	13.5	14.1	14.3	13.7	14.3	14.0	14.6	14.8
4H	13.2	13.8	13.5	14.1	14.3	13.7	14.3	14.0	14.6	14.8
6H	13.2	13.7	13.5	14.0	14.3	13.7	14.2	14.0	14.5	14.8
8H	13.1	13.7	13.5	14.0	14.3	13.6	14.2	14.0	14.4	14.7
12H	13.1	13.6	13.4	13.9	14.2	13.6	14.1	13.9	14.4	14.7
X=4H Y=2H	13.2	13.8	13.5	14.0	14.3	13.5	14.1	13.8	14.4	14.6
3H	13.5	14.0	13.8	14.3	14.6	13.9	14.4	14.2	14.7	15.0
4H	13.5	13.9	13.9	14.3	14.6	13.9	14.4	14.3	14.7	15.1
6H	13.4	13.8	13.8	14.2	14.6	13.9	14.3	14.3	14.7	15.0
8H	13.4	13.8	13.8	14.1	14.5	13.8	14.2	14.3	14.6	15.0
12H	13.3	13.7	13.8	14.1	14.5	13.8	14.1	14.2	14.5	15.0
X=8H Y=4H	13.4	13.8	13.8	14.2	14.6	13.9	14.2	14.3	14.6	15.0
6H	13.4	13.7	13.8	14.1	14.5	13.8	14.1	14.2	14.5	15.0
8H	13.3	13.6	13.8	14.0	14.5	13.7	14.0	14.2	14.5	14.9
12H	13.3	13.5	13.7	14.0	14.5	13.7	13.9	14.2	14.4	14.9
X=12H Y=4H	13.4	13.7	13.8	14.1	14.5	13.8	14.1	14.2	14.5	15.0
6H	13.3	13.6	13.8	14.0	14.5	13.7	14.0	14.2	14.5	14.9
8H	13.3	13.5	13.7	14.0	14.5	13.7	13.9	14.2	14.4	14.9
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.4					+1.3/-1.4				
S=1.5H	+2.5/-2.7					+2.9/-2.6				
S=2.0H	+4.0/-5.0					+4.4/-4.2				

Calculate in accordance with CIE Pub.117. The table is revised with 275lm ($8\log(F/F_0) = -4.5$).

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: 3.000 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	123	44.7
	FL (0°-30°)	107	38.9
	FM (30°-60°)	14	5.2
	FH (60°-80°)	2	0.6
	FVH (80°-90°)	0	0.0
	BACK LIGHT	152	55.3
	BL (0°-30°)	135	48.9
	BM (30°-60°)	16	5.7
	BH (60°-80°)	2	0.7
	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)	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: 3.000 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	933.0	0.9	0.9	0.32	0.32
1.0-2.0	927.3	2.7	3.6	0.97	1.29
2.0-3.0	915.9	4.4	7.9	1.59	2.89
3.0-4.0	898.9	6.0	14.0	2.19	5.07
4.0-5.0	876.4	7.5	21.5	2.74	7.82
5.0-6.0	848.8	8.9	30.4	3.24	11.06
6.0-7.0	816.5	10.1	40.6	3.69	14.75
7.0-8.0	779.6	11.2	51.7	4.06	18.80
8.0-9.0	738.5	12.0	63.7	4.35	23.16
9.0-10.0	694.2	12.6	76.2	4.57	27.72
10.0-11.0	647.7	12.9	89.2	4.71	32.43
11.0-12.0	600.0	13.1	102.3	4.77	37.20
12.0-13.0	551.4	13.1	115.4	4.76	41.96
13.0-14.0	502.2	12.9	128.3	4.67	46.63
14.0-15.0	453.6	12.5	140.7	4.53	51.16
15.0-16.0	406.3	11.9	152.6	4.33	55.49
16.0-17.0	360.7	11.2	163.8	4.09	59.58
17.0-18.0	317.8	10.5	174.3	3.81	63.39
18.0-19.0	277.6	9.7	184.0	3.51	66.90
19.0-20.0	240.8	8.8	192.8	3.20	70.10
20.0-21.0	207.5	8.0	200.8	2.90	73.00
21.0-22.0	177.8	7.1	207.9	2.60	75.60
22.0-23.0	151.6	6.4	214.3	2.31	77.91
23.0-24.0	128.6	5.6	219.9	2.05	79.96
24.0-25.0	108.8	4.9	224.8	1.80	81.76
25.0-26.0	91.7	4.3	229.2	1.57	83.33
26.0-27.0	77.2	3.8	232.9	1.37	84.70
27.0-28.0	65.0	3.3	236.2	1.20	85.90
28.0-29.0	54.8	2.9	239.1	1.04	86.94
29.0-30.0	46.7	2.5	241.6	0.92	87.86
30.0-31.0	40.1	2.2	243.9	0.81	88.67
31.0-32.0	34.6	2.0	245.8	0.72	89.39
32.0-33.0	30.2	1.8	247.6	0.65	90.04
33.0-34.0	26.9	1.6	249.3	0.59	90.63
34.0-35.0	24.2	1.5	250.8	0.55	91.18
35.0-36.0	22.1	1.4	252.2	0.51	91.69

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: 3.000 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	20.4	1.3	253.5	0.48	92.18
37.0-38.0	18.9	1.3	254.8	0.46	92.64
38.0-39.0	17.6	1.2	256.0	0.44	93.07
39.0-40.0	16.5	1.2	257.1	0.42	93.49
40.0-41.0	15.5	1.1	258.2	0.40	93.90
41.0-42.0	14.7	1.1	259.3	0.39	94.28
42.0-43.0	13.8	1.0	260.3	0.37	94.66
43.0-44.0	13.1	1.0	261.3	0.36	95.02
44.0-45.0	12.5	1.0	262.3	0.35	95.36
45.0-46.0	11.6	0.9	263.2	0.33	95.69
46.0-47.0	10.8	0.9	264.0	0.31	96.01
47.0-48.0	10.1	0.8	264.9	0.30	96.31
48.0-49.0	9.4	0.8	265.6	0.28	96.59
49.0-50.0	8.7	0.7	266.4	0.26	96.85
50.0-51.0	8.0	0.7	267.0	0.25	97.10
51.0-52.0	7.4	0.6	267.7	0.23	97.33
52.0-53.0	6.8	0.6	268.3	0.22	97.55
53.0-54.0	6.3	0.6	268.8	0.20	97.75
54.0-55.0	5.9	0.5	269.3	0.19	97.94
55.0-56.0	5.5	0.5	269.8	0.18	98.12
56.0-57.0	5.2	0.5	270.3	0.17	98.29
57.0-58.0	4.8	0.4	270.8	0.16	98.46
58.0-59.0	4.6	0.4	271.2	0.16	98.61
59.0-60.0	4.2	0.4	271.6	0.14	98.76
60.0-61.0	3.9	0.4	272.0	0.14	98.89
61.0-62.0	3.7	0.4	272.3	0.13	99.02
62.0-63.0	3.3	0.3	272.6	0.12	99.14
63.0-64.0	3.2	0.3	273.0	0.11	99.25
64.0-65.0	2.9	0.3	273.2	0.10	99.36
65.0-66.0	2.6	0.3	273.5	0.09	99.45
66.0-67.0	2.3	0.2	273.7	0.08	99.54
67.0-68.0	2.0	0.2	273.9	0.07	99.61
68.0-69.0	1.8	0.2	274.1	0.07	99.67
69.0-70.0	1.5	0.2	274.3	0.06	99.73
70.0-71.0	1.3	0.1	274.4	0.05	99.78
71.0-72.0	1.0	0.1	274.5	0.04	99.82

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: 3.000 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.000 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	934.5	934.5								
G1.0	915.7	947.1								
G2.0	892.0	954.2								
G3.0	862.7	954.8								
G4.0	828.5	949.6								
G5.0	789.0	938.4								
G6.0	746.2	921.6								
G7.0	699.5	898.9								
G8.0	649.5	870.4								
G9.0	597.5	836.5								
G10.0	544.7	798.2								
G11.0	492.3	755.7								
G12.0	443.0	709.2								
G13.0	395.1	658.3								
G14.0	349.7	605.5								
G15.0	307.7	551.5								
G16.0	269.2	496.6								
G17.0	234.2	443.0								
G18.0	203.0	390.9								
G19.0	174.9	341.5								
G20.0	150.5	296.0								
G21.0	128.9	254.6								
G22.0	110.5	217.3								
G23.0	94.6	183.9								
G24.0	81.1	155.0								
G25.0	69.3	129.6								
G26.0	59.7	108.0								
G27.0	51.2	89.9								
G28.0	44.0	74.7								
G29.0	38.2	62.5								
G30.0	33.7	52.5								
G31.0	30.0	44.2								
G32.0	26.9	37.4								
G33.0	24.5	32.2								
G34.0	22.5	28.3								
G35.0	20.7	25.4								
G36.0	19.2	23.3								

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: 3.000 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	17.9	21.3								
G38.0	16.7	19.7								
G39.0	15.5	18.6								
G40.0	14.6	17.3								
G41.0	13.9	16.4								
G42.0	13.1	15.4								
G43.0	12.1	14.6								
G44.0	11.8	14.0								
G45.0	10.9	13.1								
G46.0	10.1	12.2								
G47.0	9.6	11.5								
G48.0	8.8	10.7								
G49.0	8.2	10.0								
G50.0	7.5	9.3								
G51.0	6.9	8.5								
G52.0	6.4	7.8								
G53.0	6.0	7.2								
G54.0	6.0	6.3								
G55.0	5.4	5.8								
G56.0	5.2	5.7								
G57.0	4.8	5.2								
G58.0	4.6	4.8								
G59.0	4.2	4.8								
G60.0	3.6	4.3								
G61.0	3.6	4.2								
G62.0	3.1	3.7								
G63.0	2.8	3.6								
G64.0	2.7	3.6								
G65.0	2.2	3.1								
G66.0	2.1	3.0								
G67.0	1.6	2.5								
G68.0	1.3	2.4								
G69.0	1.2	2.2								
G70.0	1.0	1.6								
G71.0	1.0	1.5								
G72.0	0.8	0.9								
G73.0	0.8	1.0								

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: 3.000 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: