

Report No.:

Test Time: 2024-10-13 10:05

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -37

Voltage: 228.5 V

Power: 8.70 W

Luminous Width (mm): -37

Current: 0.070 A

Power Factor: 0.540

Photometric Results

CIE Class: Direct

Measurement Flux: 471.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H23.4

Vertical Diffuse Angle(50%): V23.4

Luminaire Efficacy Rating (LER): 54.24

Max. Intensity: 2336.09 cd

S/MH(C0/C180): 0.40

Total Rated Lamp Lumens: 471.4 lm

Efficiency: 100%

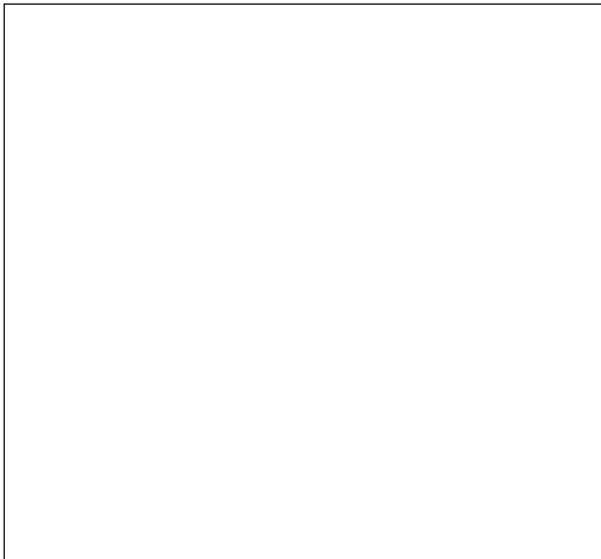
Upward Ratio: 0%

Central Intensity: 2319.69 cd

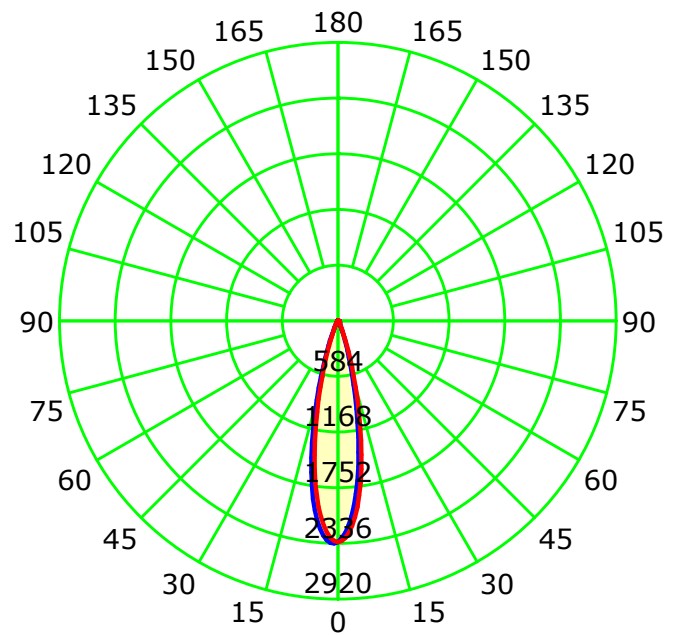
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.40

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

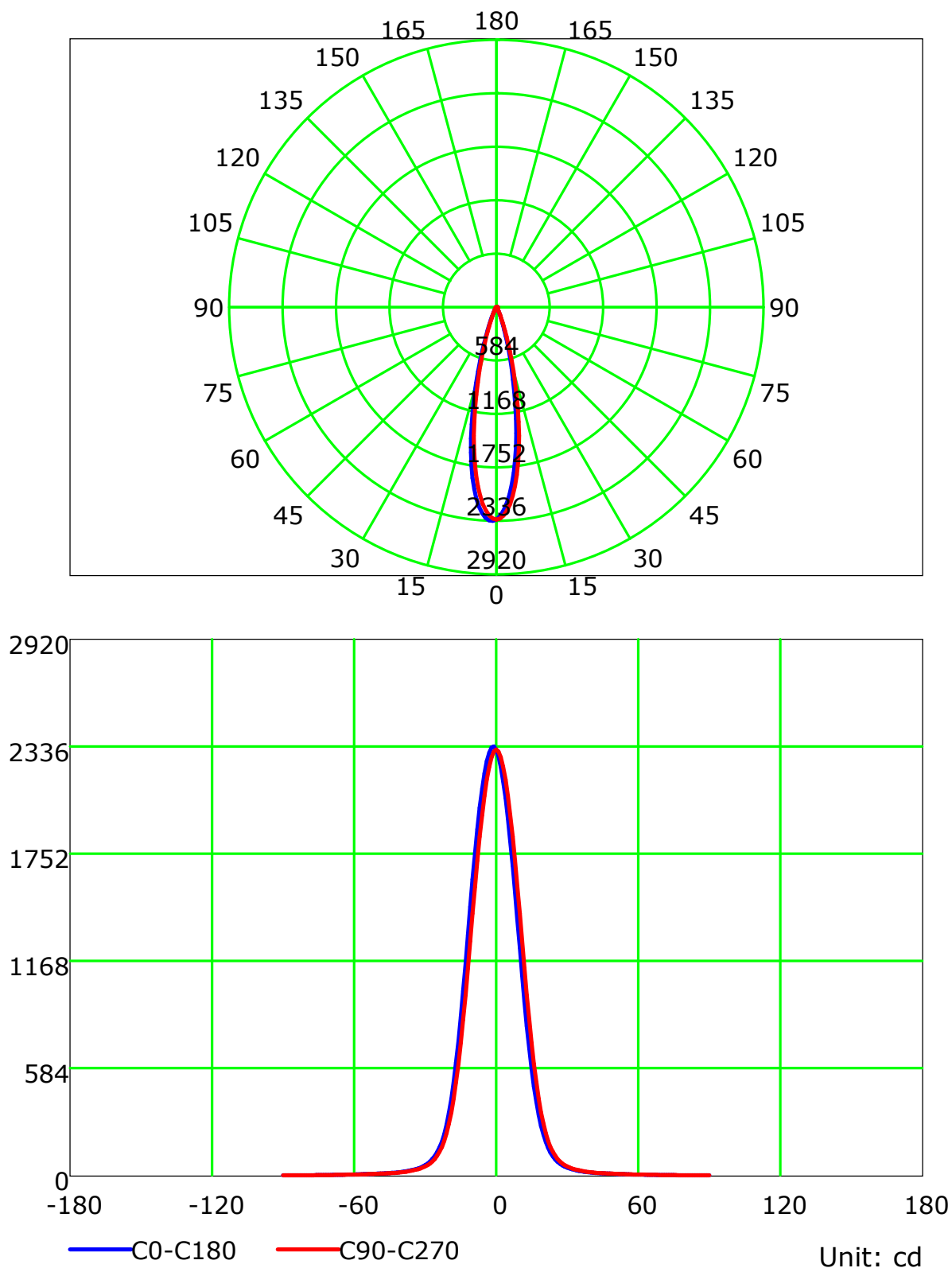
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

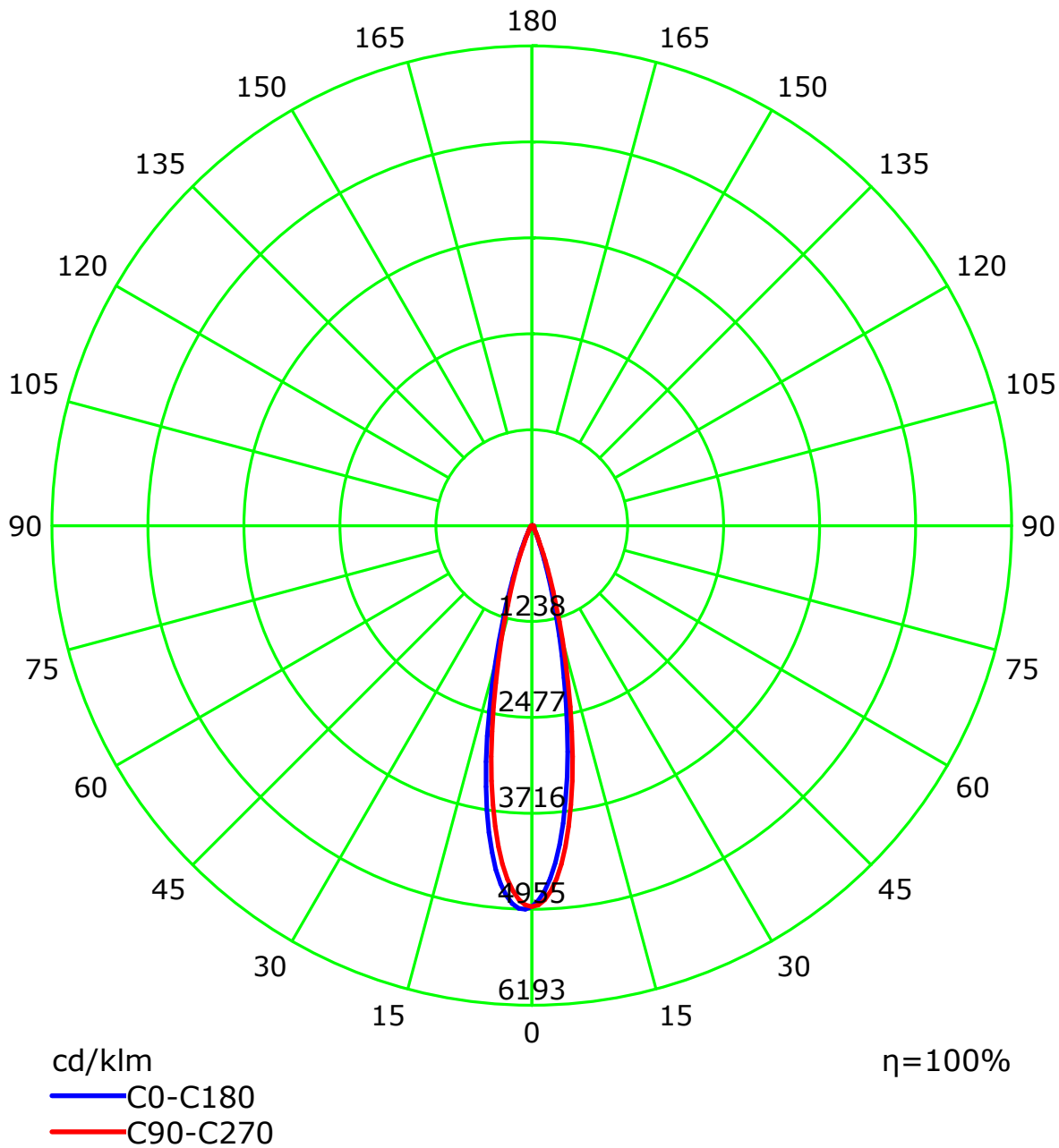
Luminous Intensity Distribution Curve



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:

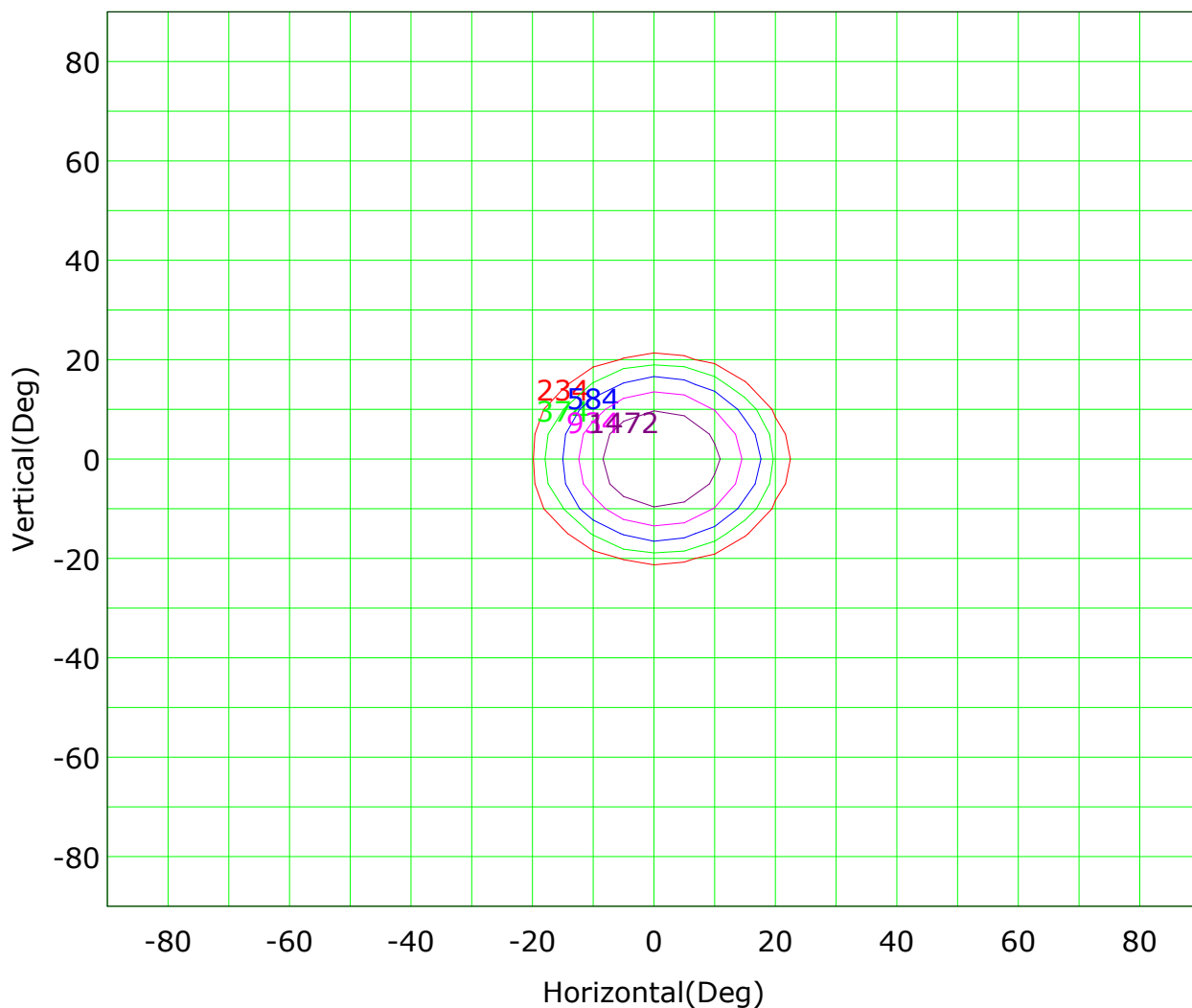
Luminous Intensity Distribution Curve(cd/klm)



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)

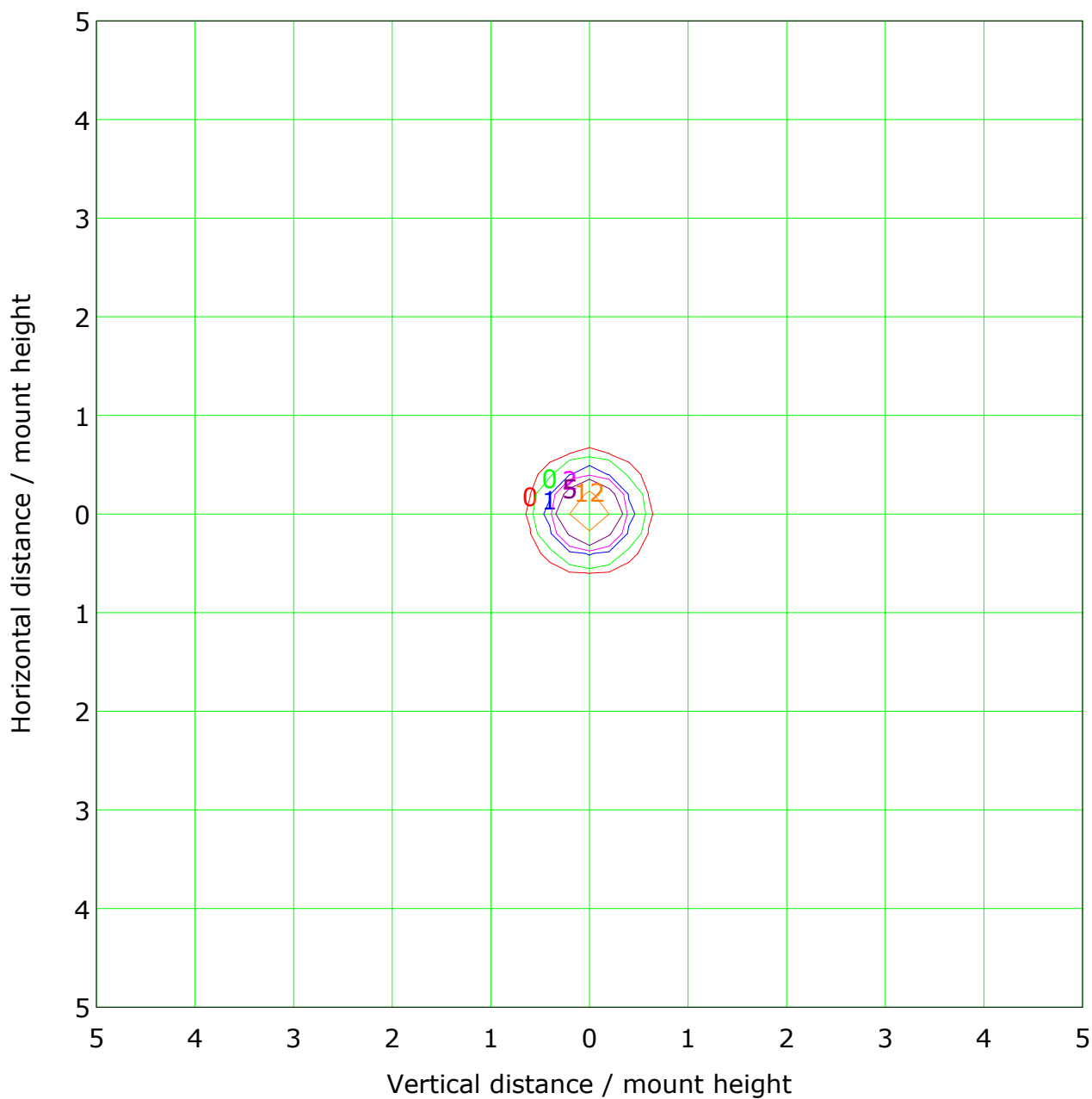


Imax (100%): 2336 cd

(10%): 234 cd
(25%): 584 cd
(63%): 1472 cd

(16%): 374 cd
(40%): 934 cd
(100%): 2336 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 23.4 lx

(1%): 0.2 lx	(2%): 0.5 lx
(5%): 1.2 lx	(10%): 2.3 lx
(20%): 4.7 lx	(50%): 11.7 lx
(100%): 23.4 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

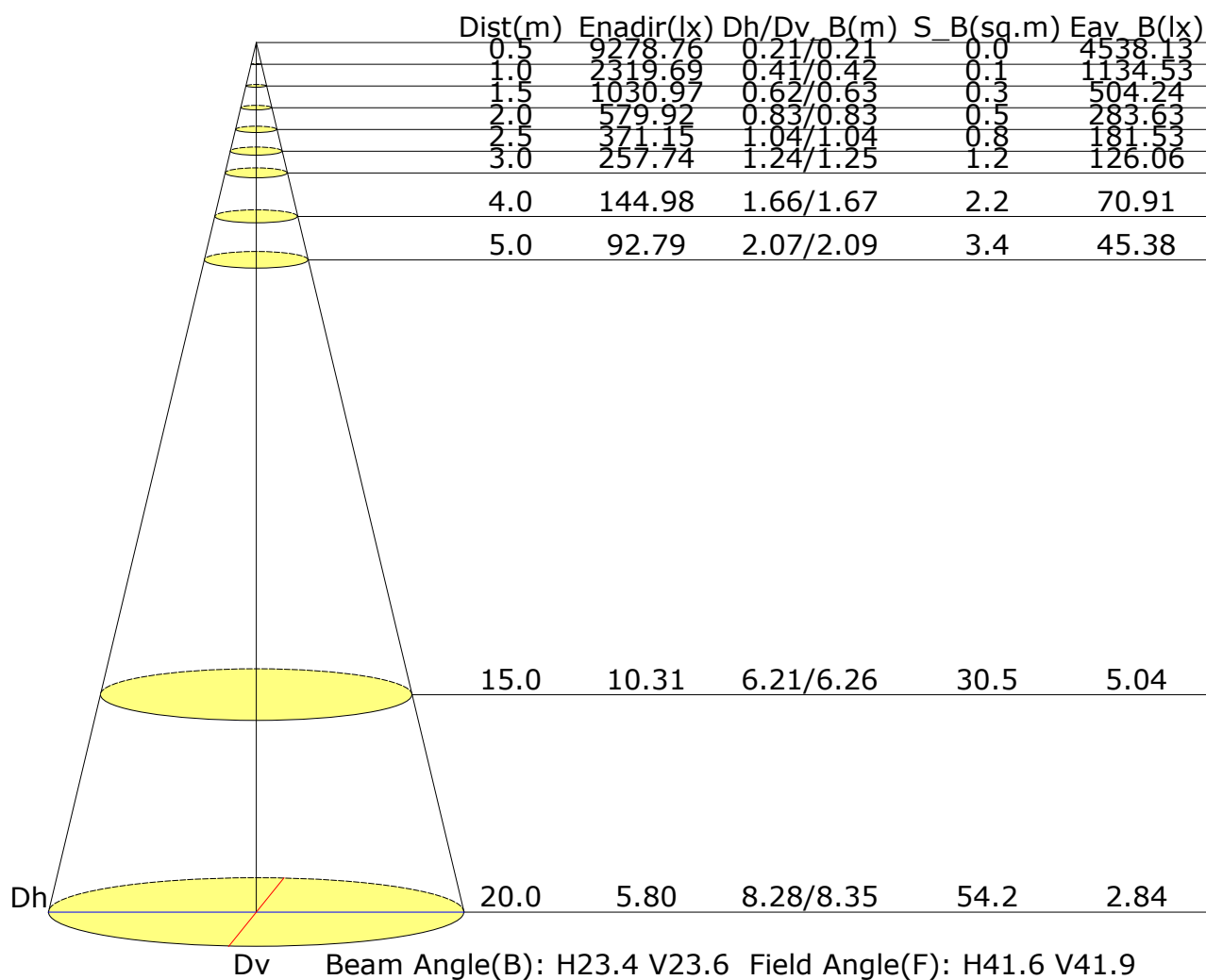
Test Device: CHL-6E

Distance: 3.328 m

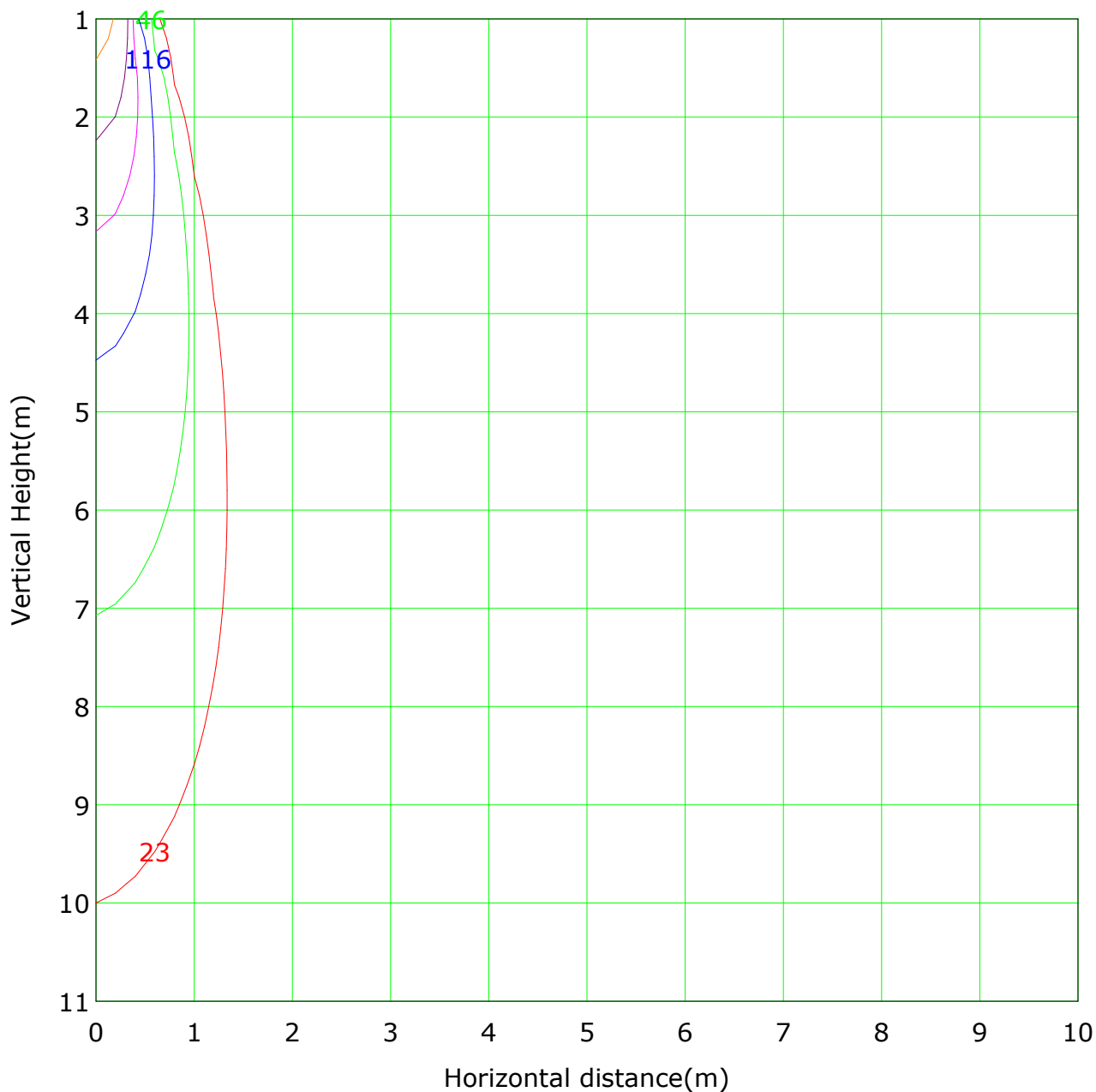
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



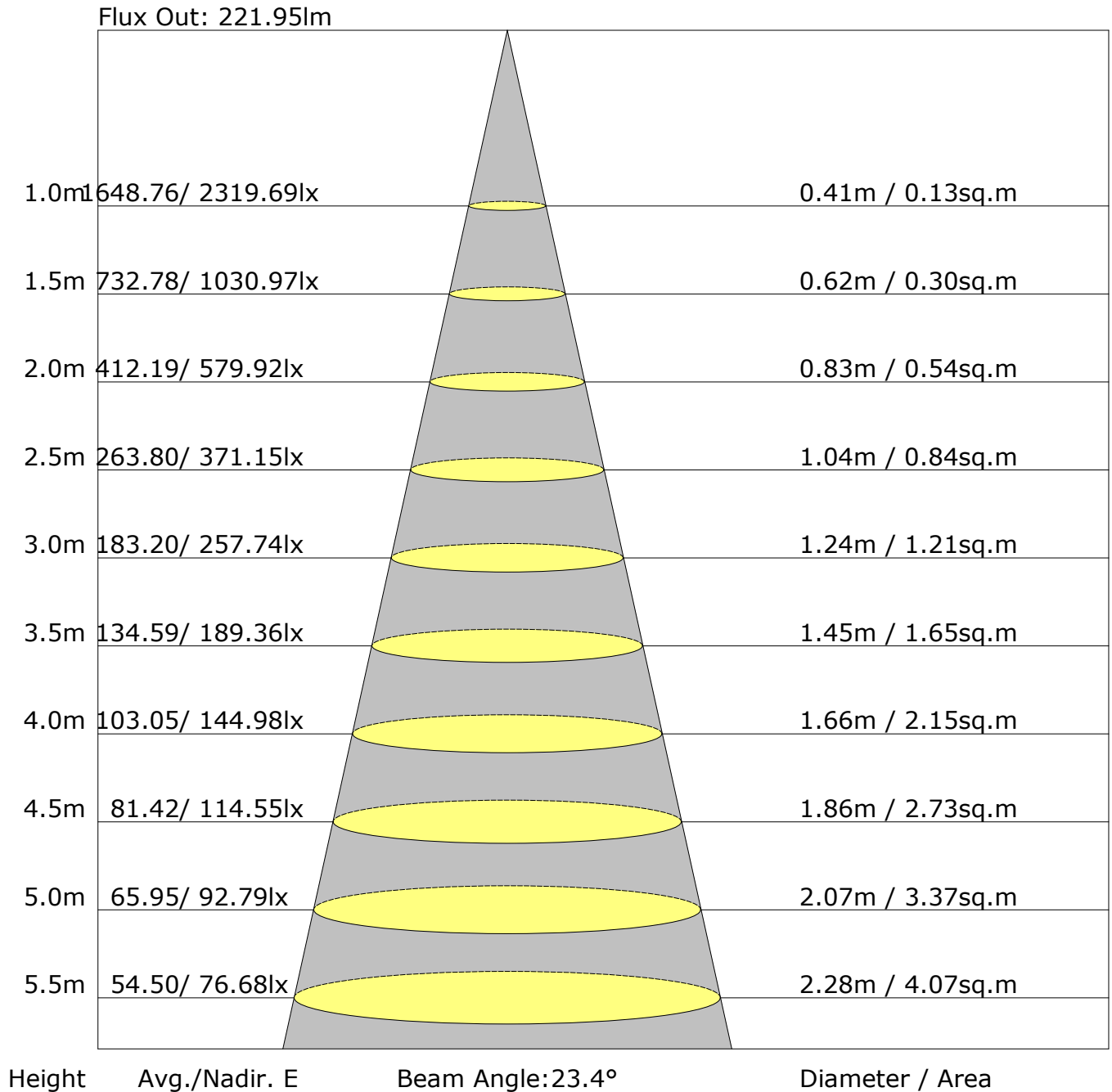
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2319.7 lx
— (1%): 23.2 lx — (2%): 46.4 lx
— (5%): 116.0 lx — (10%): 232.0 lx
— (20%): 463.9 lx — (50%): 1159.8 lx
— (100%): 2319.7 lx

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: 3.328 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	13.1	13.7	13.4	13.9	14.1	13.4	14.1	13.7	14.2	14.4
3H	13.7	14.3	14.0	14.5	14.7	14.0	14.6	14.3	14.8	15.1
4H	13.9	14.5	14.2	14.7	15.0	14.3	14.8	14.6	15.1	15.3
6H	14.0	14.5	14.3	14.8	15.1	14.4	14.9	14.7	15.2	15.5
8H	14.0	14.5	14.3	14.8	15.1	14.4	14.9	14.8	15.2	15.5
12H	14.0	14.5	14.3	14.8	15.1	14.4	14.9	14.8	15.2	15.5
X=4H Y=2H	13.4	14.0	13.7	14.2	14.5	13.7	14.2	14.0	14.5	14.7
3H	14.1	14.6	14.5	14.9	15.2	14.4	14.9	14.8	15.2	15.5
4H	14.4	14.9	14.8	15.2	15.5	14.8	15.2	15.1	15.5	15.9
6H	14.6	15.0	15.0	15.3	15.7	15.0	15.3	15.4	15.7	16.1
8H	14.6	14.9	15.0	15.3	15.7	15.0	15.3	15.4	15.7	16.1
12H	14.6	14.9	15.0	15.3	15.7	15.0	15.3	15.4	15.7	16.1
X=8H Y=4H	14.5	14.9	14.9	15.2	15.6	14.8	15.2	15.2	15.5	15.9
6H	14.7	15.0	15.2	15.4	15.9	15.1	15.3	15.5	15.8	16.2
8H	14.7	15.0	15.2	15.4	15.9	15.1	15.4	15.6	15.8	16.3
12H	14.7	14.9	15.2	15.4	15.9	15.1	15.4	15.6	15.8	16.3
X=12H Y=4H	14.5	14.8	14.9	15.2	15.6	14.8	15.1	15.2	15.5	15.9
6H	14.7	14.9	15.2	15.4	15.9	15.0	15.3	15.5	15.7	16.2
8H	14.7	15.0	15.2	15.4	15.9	15.1	15.3	15.6	15.8	16.3
Variations with the observer position at spacings:										
S=1.0H	+1.0/-0.8					+1.1/-0.8				
S=1.5H	+2.2/-1.4					+2.5/-1.4				
S=2.0H	+3.6/-2.3					+3.8/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 471lm ($8\log(F/F_0) = -2.6$).

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	220	46.6
	FL (0°-30°)	201	42.6
	FM (30°-60°)	16	3.4
	FH (60°-80°)	3	0.5
	FVH (80°-90°)	0	0.0
	BACK LIGHT	252	53.4
	BL (0°-30°)	231	49.0
	BM (30°-60°)	18	3.8
	BH (60°-80°)	3	0.6
	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: 3.328 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	2314.5	2.2	2.2	0.47	0.47
1.0-2.0	2294.0	6.6	8.8	1.40	1.87
2.0-3.0	2252.7	10.8	19.6	2.29	4.15
3.0-4.0	2191.5	14.7	34.2	3.11	7.26
4.0-5.0	2112.0	18.2	52.4	3.85	11.12
5.0-6.0	2015.9	21.2	73.6	4.49	15.61
6.0-7.0	1904.6	23.6	97.3	5.02	20.63
7.0-8.0	1780.1	25.5	122.7	5.40	26.03
8.0-9.0	1644.7	26.7	149.4	5.65	31.69
9.0-10.0	1500.9	27.2	176.6	5.76	37.45
10.0-11.0	1352.1	27.0	203.6	5.73	43.18
11.0-12.0	1202.4	26.3	229.9	5.58	48.76
12.0-13.0	1055.7	25.1	254.9	5.32	54.07
13.0-14.0	915.6	23.4	278.4	4.97	59.04
14.0-15.0	784.7	21.5	299.9	4.57	63.61
15.0-16.0	665.0	19.5	319.4	4.13	67.75
16.0-17.0	557.5	17.4	336.8	3.68	71.43
17.0-18.0	462.8	15.3	352.0	3.24	74.67
18.0-19.0	381.1	13.3	365.3	2.81	77.48
19.0-20.0	311.9	11.4	376.7	2.42	79.90
20.0-21.0	254.7	9.8	386.5	2.07	81.98
21.0-22.0	208.3	8.4	394.8	1.78	83.75
22.0-23.0	171.0	7.2	402.0	1.52	85.28
23.0-24.0	141.2	6.2	408.2	1.31	86.59
24.0-25.0	117.5	5.3	413.5	1.13	87.72
25.0-26.0	98.5	4.6	418.2	0.99	88.70
26.0-27.0	83.1	4.1	422.3	0.86	89.57
27.0-28.0	70.6	3.6	425.8	0.76	90.32
28.0-29.0	60.6	3.2	429.0	0.67	91.00
29.0-30.0	52.6	2.8	431.8	0.60	91.60
30.0-31.0	46.1	2.6	434.4	0.54	92.14
31.0-32.0	40.7	2.3	436.7	0.49	92.64
32.0-33.0	36.3	2.1	438.9	0.45	93.09
33.0-34.0	32.6	2.0	440.8	0.42	93.51
34.0-35.0	29.3	1.8	442.7	0.39	93.90
35.0-36.0	26.4	1.7	444.4	0.36	94.25

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	23.9	1.6	445.9	0.33	94.59
37.0-38.0	21.7	1.4	447.4	0.31	94.89
38.0-39.0	19.7	1.3	448.7	0.29	95.18
39.0-40.0	18.0	1.3	450.0	0.27	95.44
40.0-41.0	16.6	1.2	451.1	0.25	95.69
41.0-42.0	15.5	1.1	452.3	0.24	95.93
42.0-43.0	14.4	1.1	453.3	0.23	96.16
43.0-44.0	13.5	1.0	454.3	0.22	96.37
44.0-45.0	12.8	1.0	455.3	0.21	96.58
45.0-46.0	12.1	0.9	456.3	0.20	96.78
46.0-47.0	11.4	0.9	457.2	0.19	96.98
47.0-48.0	10.7	0.9	458.0	0.18	97.16
48.0-49.0	10.1	0.8	458.9	0.18	97.33
49.0-50.0	9.6	0.8	459.7	0.17	97.50
50.0-51.0	9.1	0.8	460.4	0.16	97.67
51.0-52.0	8.5	0.7	461.2	0.16	97.82
52.0-53.0	7.9	0.7	461.9	0.15	97.97
53.0-54.0	7.5	0.7	462.5	0.14	98.11
54.0-55.0	7.1	0.6	463.2	0.13	98.24
55.0-56.0	6.6	0.6	463.8	0.13	98.37
56.0-57.0	6.2	0.6	464.3	0.12	98.49
57.0-58.0	5.7	0.5	464.9	0.11	98.60
58.0-59.0	5.4	0.5	465.4	0.11	98.71
59.0-60.0	5.2	0.5	465.8	0.10	98.81
60.0-61.0	4.8	0.5	466.3	0.10	98.91
61.0-62.0	4.6	0.4	466.8	0.09	99.01
62.0-63.0	4.3	0.4	467.2	0.09	99.09
63.0-64.0	4.1	0.4	467.6	0.09	99.18
64.0-65.0	3.8	0.4	467.9	0.08	99.26
65.0-66.0	3.4	0.3	468.3	0.07	99.33
66.0-67.0	3.2	0.3	468.6	0.07	99.40
67.0-68.0	2.9	0.3	468.9	0.06	99.46
68.0-69.0	2.8	0.3	469.2	0.06	99.52
69.0-70.0	2.5	0.3	469.5	0.06	99.58
70.0-71.0	2.3	0.2	469.7	0.05	99.63
71.0-72.0	2.1	0.2	469.9	0.05	99.68

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: 3.328 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	2319.7	2319.7								
G1.0	2282.7	2336.1								
G2.0	2226.4	2330.7								
G3.0	2149.9	2303.8								
G4.0	2056.6	2255.8								
G5.0	1946.0	2189.6								
G6.0	1822.5	2105.5								
G7.0	1687.8	2002.6								
G8.0	1544.0	1885.9								
G9.0	1393.8	1755.1								
G10.0	1241.7	1613.0								
G11.0	1090.1	1463.4								
G12.0	946.9	1309.1								
G13.0	813.9	1153.1								
G14.0	692.0	1003.2								
G15.0	582.0	861.6								
G16.0	484.9	731.6								
G17.0	400.4	613.2								
G18.0	329.2	508.5								
G19.0	270.1	416.4								
G20.0	221.7	339.3								
G21.0	182.5	275.4								
G22.0	151.0	224.3								
G23.0	124.8	184.1								
G24.0	103.7	152.3								
G25.0	87.0	126.9								
G26.0	73.6	106.3								
G27.0	63.1	89.3								
G28.0	54.5	75.5								
G29.0	47.8	64.7								
G30.0	42.3	55.6								
G31.0	37.6	48.7								
G32.0	33.9	42.7								
G33.0	30.5	38.1								
G34.0	27.4	34.1								
G35.0	24.8	30.8								
G36.0	22.4	27.8								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	20.1	25.5								
G38.0	18.1	23.0								
G39.0	16.8	21.0								
G40.0	15.4	19.0								
G41.0	14.5	17.5								
G42.0	13.7	16.1								
G43.0	12.8	14.9								
G44.0	12.2	14.0								
G45.0	11.7	13.3								
G46.0	10.9	12.4								
G47.0	10.3	11.8								
G48.0	9.8	10.9								
G49.0	9.3	10.3								
G50.0	8.8	9.9								
G51.0	8.3	9.4								
G52.0	7.7	8.7								
G53.0	7.2	8.1								
G54.0	6.9	7.8								
G55.0	6.5	7.1								
G56.0	6.0	6.9								
G57.0	5.5	6.6								
G58.0	5.0	6.0								
G59.0	4.8	5.7								
G60.0	4.7	5.3								
G61.0	4.5	4.8								
G62.0	4.2	4.7								
G63.0	4.0	4.5								
G64.0	3.7	4.2								
G65.0	3.2	3.8								
G66.0	3.0	3.7								
G67.0	2.9	3.1								
G68.0	2.6	3.2								
G69.0	2.5	2.9								
G70.0	2.2	2.6								
G71.0	2.0	2.4								
G72.0	1.9	2.2								
G73.0	1.9	2.0								

C Plane (°):0.0-180.0: 180.0
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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:

Unit: cd

[illegible]

Inspector: