

Report No.:

Test Time: 2025-08-07 09:27

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.04525 50D

Luminous Width (mm): -42

Current: 0.026 A

Power Factor: 0.555

Luminous Length (mm): -42

Voltage: 233.9 V

Power: 3.40 W

Photometric Results

CIE Class: Direct

Measurement Flux: 281.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H40.3

Vertical Diffuse Angle(50%): V40.3

Luminaire Efficacy Rating (LER): 82.81

Max. Intensity: 496.8 cd

S/MH(C0/C180): 0.66

Total Rated Lamp Lumens: 281.4 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 489.64 cd

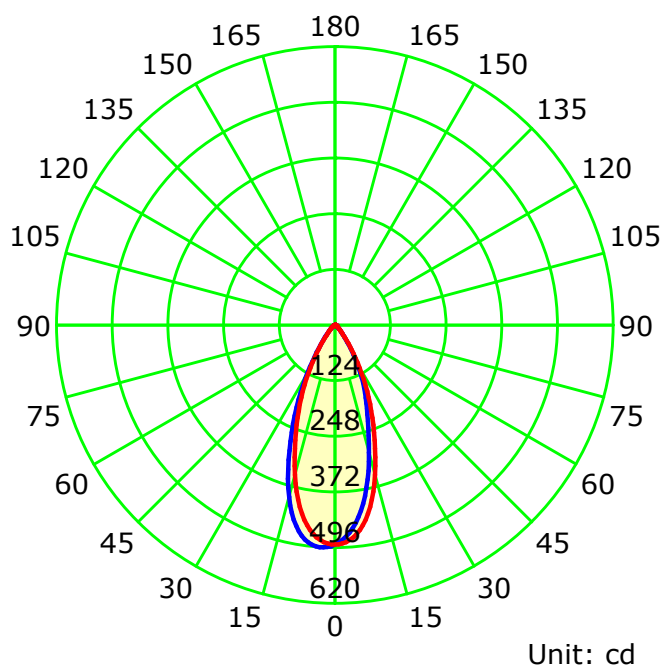
Pos of Max. Intensity: H180 V4

S/MH(C90/C270): 0.66

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

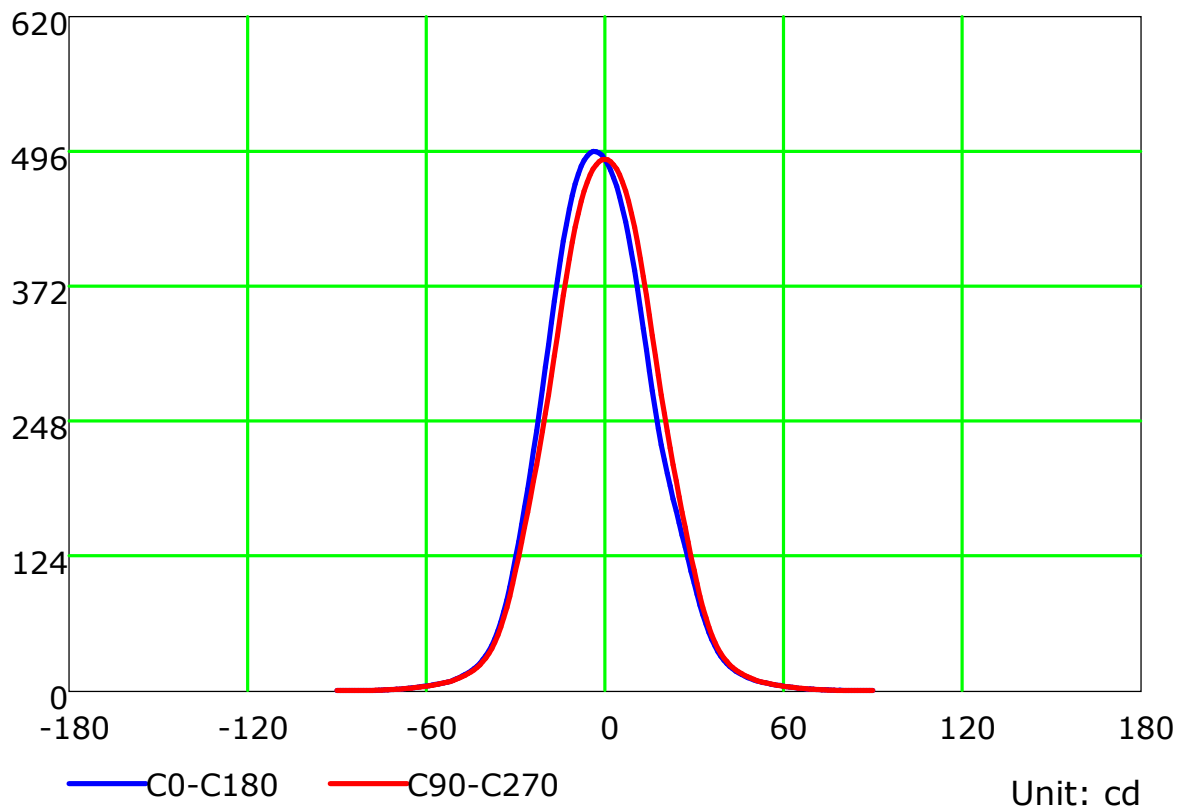
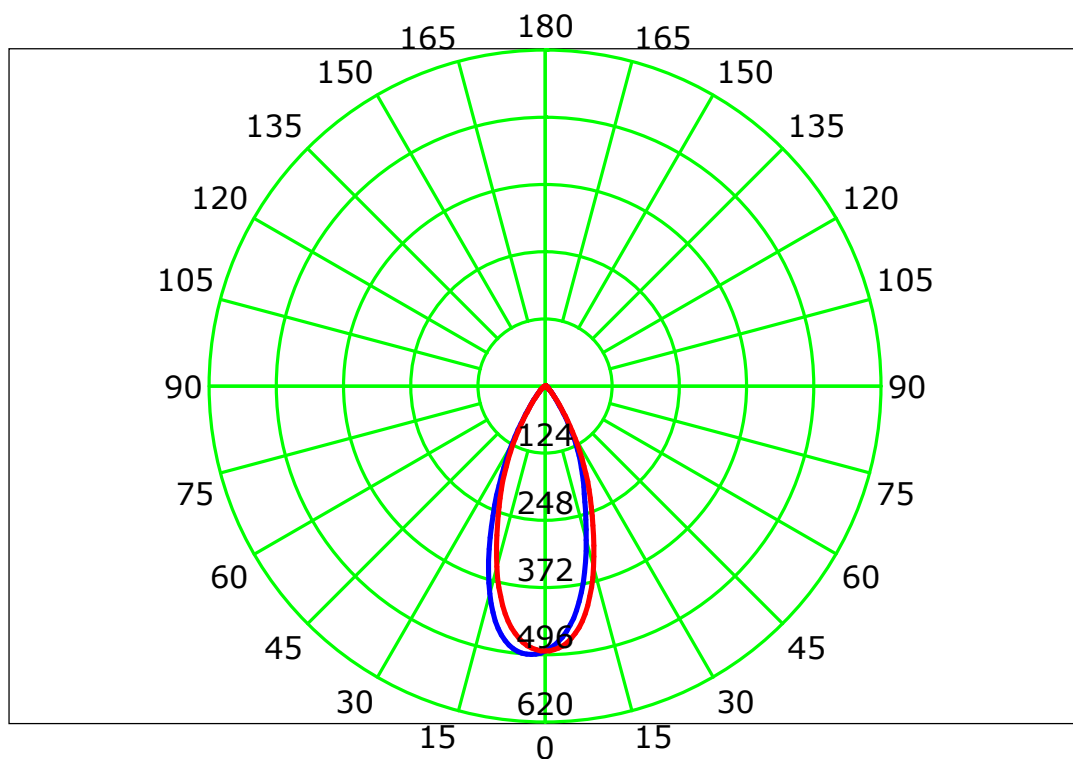
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

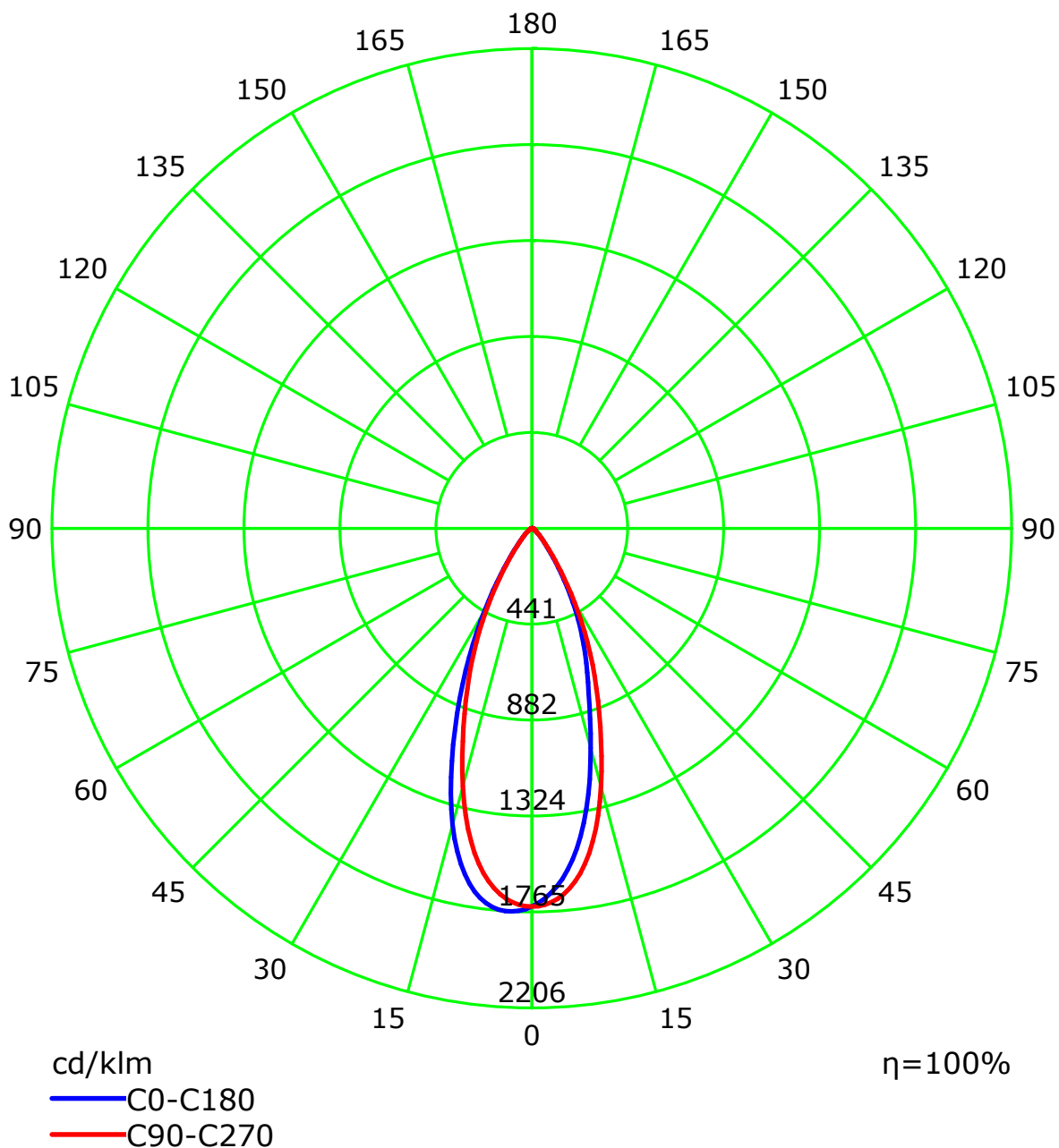
Luminous Intensity Distribution Curve



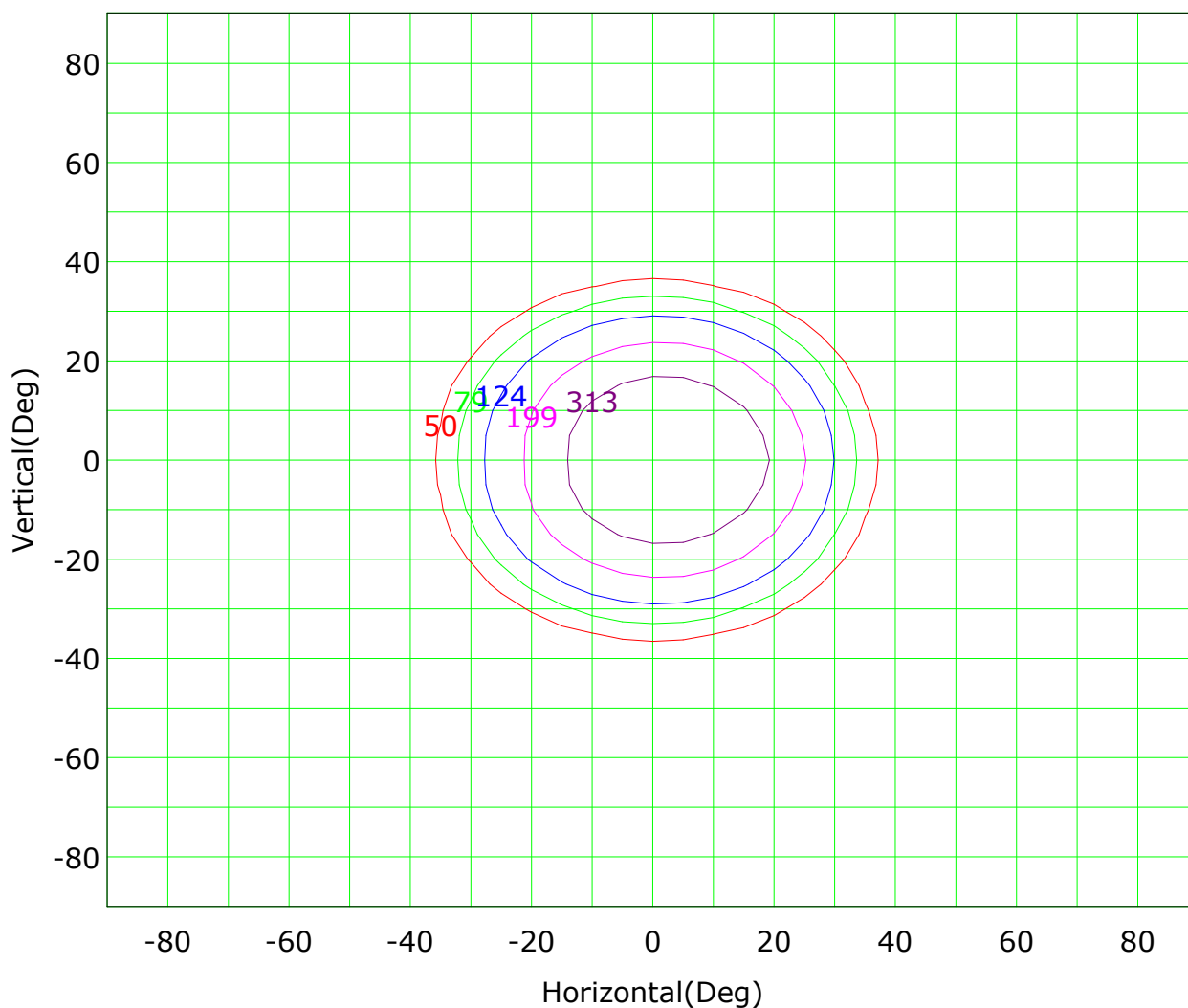
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 497 cd

(10%):	50 cd	(16%):	79 cd
(25%):	124 cd	(40%):	199 cd
(63%):	313 cd	(100%):	497 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

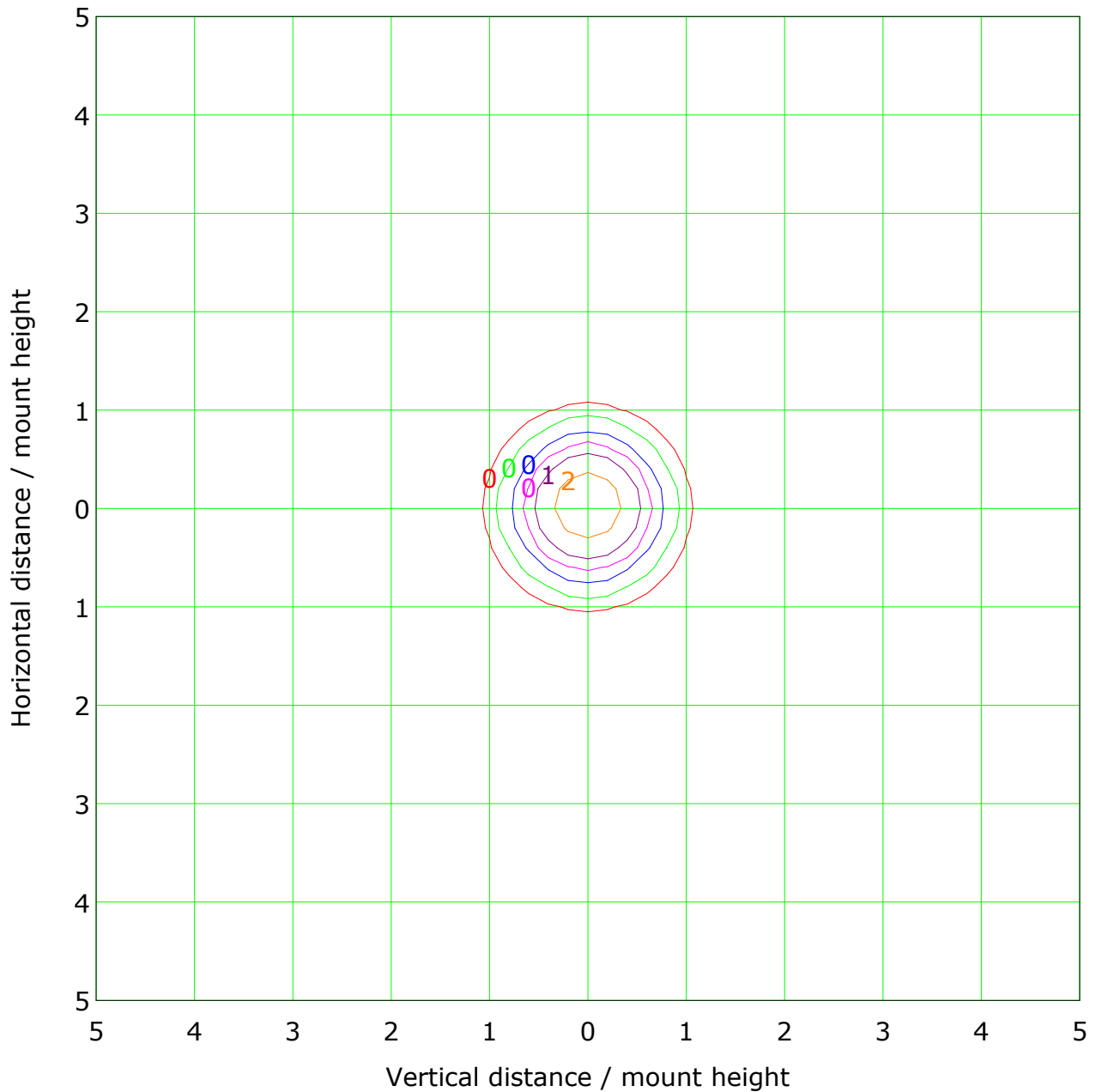
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



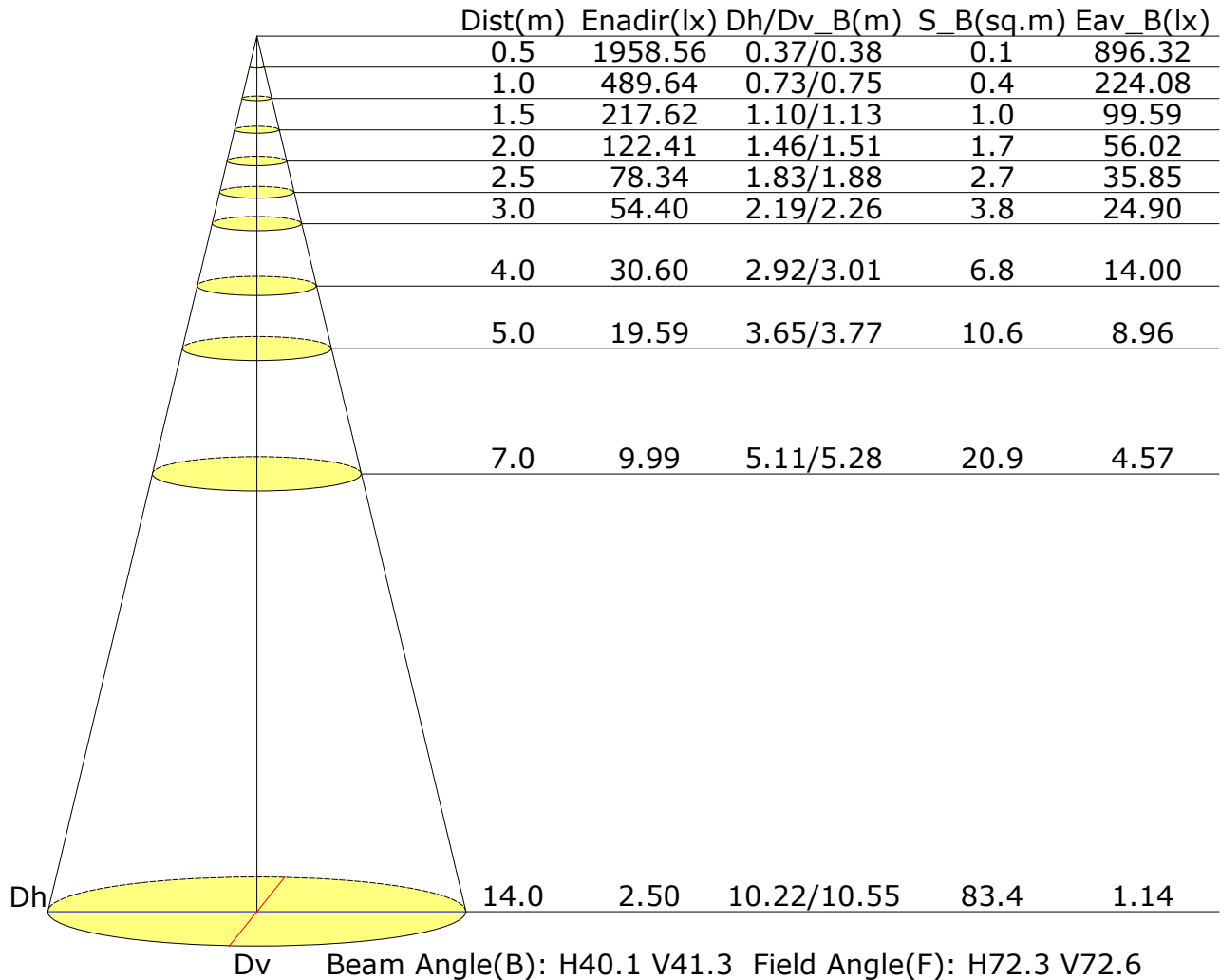
Mounting Height: 10.0m Max Lux(100%): 4.9 lx

— (1%): 0.0 lx	— (2%): 0.1 lx
— (5%): 0.2 lx	— (10%): 0.5 lx
— (20%): 1.0 lx	— (50%): 2.5 lx
— (100%): 4.9 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:

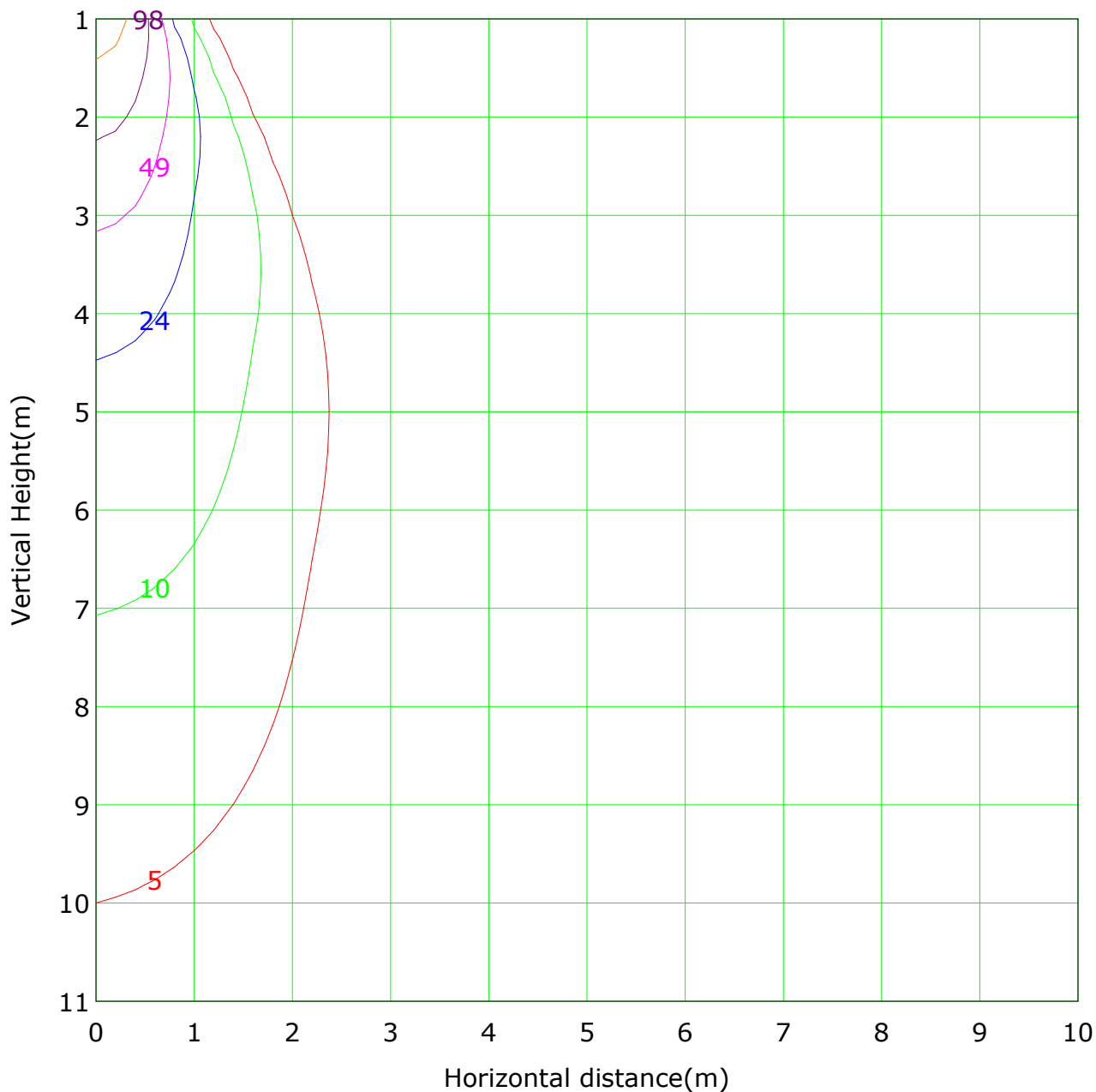
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 489.6 lx

(1%): 4.9 lx	(2%): 9.8 lx
(5%): 24.5 lx	(10%): 49.0 lx
(20%): 97.9 lx	(50%): 244.8 lx
(100%): 489.6 lx	

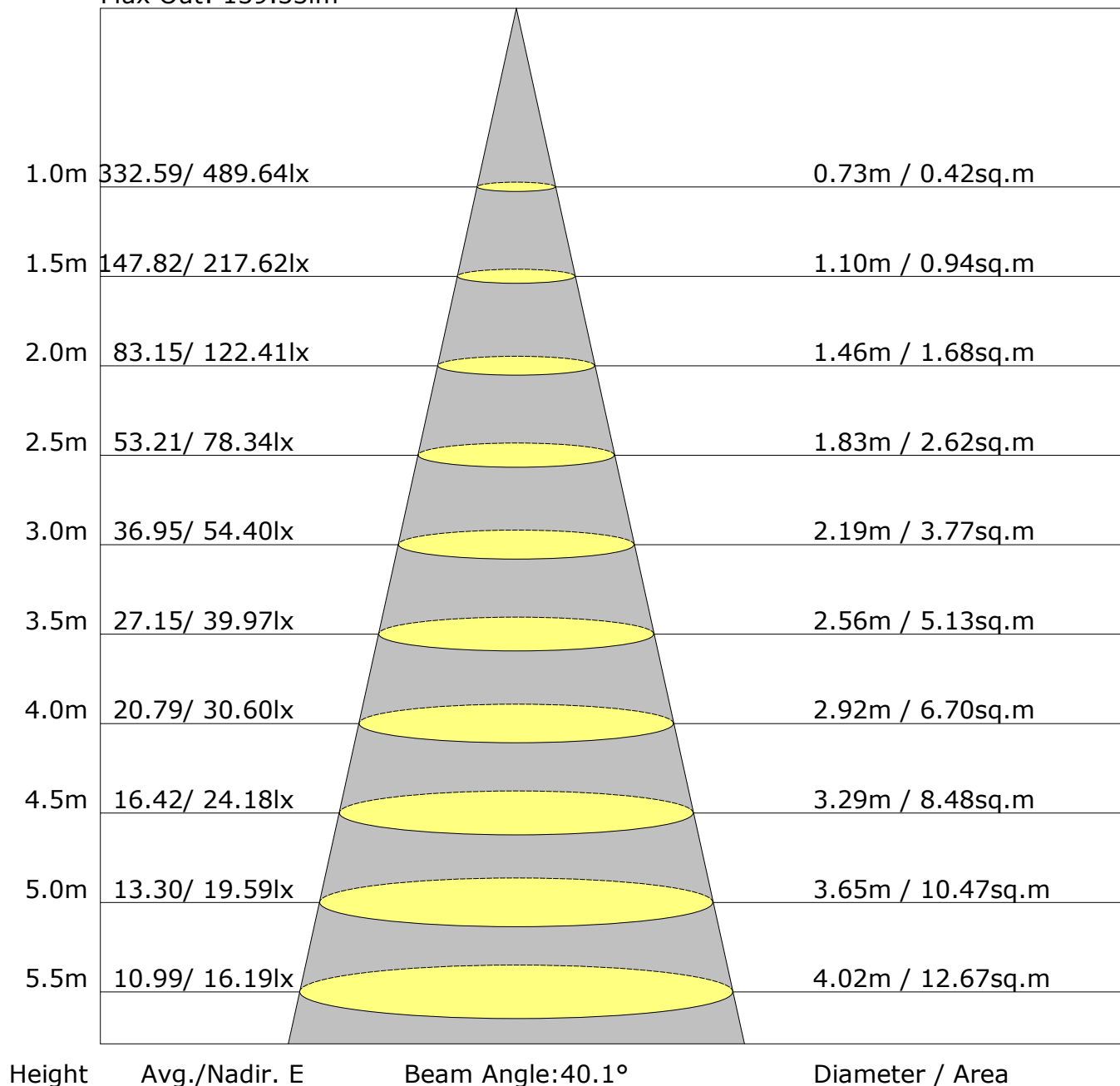
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Flux Out: 139.33lm



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	16.6	17.4	16.9	17.6	17.8	16.9	17.7	17.1	17.9	18.1
3H	16.6	17.3	16.9	17.6	17.8	16.9	17.6	17.2	17.8	18.1
4H	16.6	17.2	16.9	17.5	17.8	16.8	17.5	17.1	17.8	18.0
6H	16.5	17.1	16.8	17.4	17.7	16.8	17.4	17.1	17.7	18.0
8H	16.4	17.1	16.8	17.4	17.7	16.7	17.3	17.1	17.6	17.9
12H	16.4	17.0	16.8	17.3	17.6	16.7	17.3	17.0	17.6	17.9
X=4H Y=2H	16.5	17.2	16.8	17.5	17.8	16.8	17.5	17.1	17.8	18.0
3H	16.6	17.1	16.9	17.4	17.8	16.8	17.4	17.2	17.7	18.0
4H	16.5	17.0	16.9	17.4	17.7	16.8	17.3	17.2	17.6	18.0
6H	16.4	16.9	16.9	17.3	17.7	16.7	17.2	17.1	17.5	17.9
8H	16.4	16.8	16.8	17.2	17.6	16.7	17.1	17.1	17.5	17.9
12H	16.4	16.7	16.8	17.1	17.6	16.6	17.0	17.0	17.4	17.8
X=8H Y=4H	16.4	16.8	16.8	17.2	17.6	16.7	17.1	17.1	17.5	17.9
6H	16.3	16.7	16.8	17.1	17.6	16.6	16.9	17.0	17.3	17.8
8H	16.3	16.6	16.8	17.0	17.5	16.5	16.8	17.0	17.3	17.8
12H	16.2	16.5	16.7	17.0	17.5	16.5	16.8	17.0	17.2	17.7
X=12H Y=4H	16.4	16.7	16.8	17.2	17.6	16.6	17.0	17.1	17.4	17.8
6H	16.3	16.6	16.8	17.0	17.5	16.5	16.8	17.0	17.3	17.8
8H	16.2	16.5	16.7	17.0	17.5	16.5	16.8	17.0	17.2	17.7
Variations with the observer position at spacings:										
S=1.0H	+3.6/-3.7					+3.8/-4.0				
S=1.5H	+6.1/-5.4					+6.3/-5.6				
S=2.0H	+8.0/-8.0					+8.3/-8.1				

Calculate in accordance with CIE Pub.117. The table is revised with 281lm ($8\log(F/F_0) = -4.4$).

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: 3.000 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	133	47.2
	FL (0°-30°)	103	36.7
	FM (30°-60°)	28	10.0
	FH (60°-80°)	2	0.5
	FVH (80°-90°)	0	0.0
	BACK LIGHT	149	52.8
	BL (0°-30°)	117	41.5
	BM (30°-60°)	30	10.7
	BH (60°-80°)	2	0.5
	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	489.4	0.5	0.5	0.17	0.17
1.0-2.0	488.3	1.4	1.9	0.50	0.66
2.0-3.0	486.1	2.3	4.2	0.83	1.49
3.0-4.0	482.7	3.2	7.4	1.15	2.64
4.0-5.0	478.1	4.1	11.5	1.46	4.10
5.0-6.0	471.9	5.0	16.5	1.76	5.86
6.0-7.0	464.5	5.8	22.3	2.05	7.91
7.0-8.0	455.6	6.5	28.8	2.32	10.23
8.0-9.0	445.3	7.2	36.0	2.56	12.80
9.0-10.0	433.4	7.8	43.9	2.79	15.58
10.0-11.0	420.1	8.4	52.2	2.98	18.57
11.0-12.0	405.5	8.9	61.1	3.15	21.72
12.0-13.0	389.7	9.2	70.4	3.29	25.00
13.0-14.0	372.9	9.5	79.9	3.39	28.40
14.0-15.0	355.1	9.7	89.7	3.46	31.86
15.0-16.0	336.6	9.9	99.5	3.51	35.37
16.0-17.0	317.9	9.9	109.4	3.52	38.89
17.0-18.0	299.4	9.9	119.3	3.51	42.39
18.0-19.0	281.4	9.8	129.1	3.48	45.87
19.0-20.0	263.9	9.7	138.7	3.43	49.31
20.0-21.0	247.2	9.5	148.2	3.37	52.68
21.0-22.0	231.4	9.3	157.5	3.30	55.99
22.0-23.0	215.8	9.1	166.6	3.22	59.20
23.0-24.0	200.8	8.8	175.4	3.12	62.32
24.0-25.0	186.0	8.5	183.8	3.01	65.33
25.0-26.0	171.6	8.1	191.9	2.88	68.21
26.0-27.0	157.6	7.7	199.6	2.74	70.95
27.0-28.0	143.8	7.3	206.9	2.59	73.54
28.0-29.0	130.4	6.8	213.8	2.42	75.96
29.0-30.0	117.3	6.3	220.1	2.25	78.21
30.0-31.0	104.8	5.8	225.9	2.07	80.28
31.0-32.0	92.8	5.3	231.2	1.89	82.17
32.0-33.0	81.8	4.8	236.1	1.71	83.89
33.0-34.0	71.8	4.3	240.4	1.54	85.43
34.0-35.0	62.8	3.9	244.3	1.39	86.82
35.0-36.0	54.8	3.5	247.8	1.24	88.06

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	47.8	3.1	250.9	1.11	89.17
37.0-38.0	41.6	2.8	253.7	0.99	90.15
38.0-39.0	36.5	2.5	256.2	0.89	91.04
39.0-40.0	32.1	2.2	258.4	0.80	91.83
40.0-41.0	28.4	2.0	260.4	0.72	92.55
41.0-42.0	25.3	1.8	262.3	0.65	93.21
42.0-43.0	22.6	1.7	264.0	0.59	93.80
43.0-44.0	20.2	1.5	265.5	0.54	94.34
44.0-45.0	18.2	1.4	266.9	0.50	94.84
45.0-46.0	16.5	1.3	268.2	0.46	95.30
46.0-47.0	14.9	1.2	269.4	0.42	95.72
47.0-48.0	13.4	1.1	270.4	0.39	96.11
48.0-49.0	12.2	1.0	271.4	0.35	96.46
49.0-50.0	11.0	0.9	272.4	0.32	96.79
50.0-51.0	9.8	0.8	273.2	0.30	97.08
51.0-52.0	8.9	0.8	273.9	0.27	97.35
52.0-53.0	8.1	0.7	274.6	0.25	97.60
53.0-54.0	7.4	0.7	275.3	0.23	97.83
54.0-55.0	6.9	0.6	275.9	0.22	98.05
55.0-56.0	6.3	0.6	276.5	0.20	98.25
56.0-57.0	5.7	0.5	277.0	0.19	98.44
57.0-58.0	5.2	0.5	277.5	0.17	98.61
58.0-59.0	4.8	0.4	277.9	0.16	98.77
59.0-60.0	4.4	0.4	278.4	0.15	98.92
60.0-61.0	3.9	0.4	278.7	0.13	99.05
61.0-62.0	3.6	0.3	279.1	0.12	99.17
62.0-63.0	3.3	0.3	279.4	0.11	99.29
63.0-64.0	2.9	0.3	279.7	0.10	99.39
64.0-65.0	2.5	0.2	279.9	0.09	99.48
65.0-66.0	2.2	0.2	280.1	0.08	99.55
66.0-67.0	2.0	0.2	280.3	0.07	99.62
67.0-68.0	1.7	0.2	280.5	0.06	99.69
68.0-69.0	1.5	0.1	280.7	0.05	99.74
69.0-70.0	1.3	0.1	280.8	0.05	99.79
70.0-71.0	1.1	0.1	280.9	0.04	99.83
71.0-72.0	1.0	0.1	281.0	0.04	99.86

C Plane (°):0.0-180.0: 180.0
Test Lab:
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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	489.6	489.6								
G1.0	485.0	493.4								
G2.0	479.5	495.5								
G3.0	472.6	496.6								
G4.0	464.9	496.8								
G5.0	455.2	495.5								
G6.0	444.1	492.9								
G7.0	432.1	488.7								
G8.0	418.4	483.2								
G9.0	403.4	476.1								
G10.0	387.3	467.0								
G11.0	370.0	456.2								
G12.0	351.8	443.9								
G13.0	333.5	429.7								
G14.0	314.1	414.5								
G15.0	294.7	397.0								
G16.0	276.2	378.5								
G17.0	258.0	359.0								
G18.0	241.6	339.0								
G19.0	226.6	318.4								
G20.0	212.5	298.1								
G21.0	200.1	278.1								
G22.0	188.5	258.6								
G23.0	176.6	239.5								
G24.0	165.7	221.2								
G25.0	154.4	202.8								
G26.0	143.3	185.8								
G27.0	132.3	168.8								
G28.0	121.3	153.0								
G29.0	109.9	137.2								
G30.0	99.0	122.9								
G31.0	88.7	108.6								
G32.0	78.8	95.3								
G33.0	69.7	83.5								
G34.0	61.3	72.8								
G35.0	53.7	63.4								
G36.0	47.1	55.2								

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: 3.000 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	41.0	47.7								
G38.0	35.8	41.8								
G39.0	31.8	36.7								
G40.0	27.7	32.2								
G41.0	25.1	28.6								
G42.0	22.2	25.4								
G43.0	20.1	22.7								
G44.0	17.9	20.3								
G45.0	16.4	18.2								
G46.0	14.9	16.4								
G47.0	13.4	14.8								
G48.0	12.1	13.4								
G49.0	11.2	11.9								
G50.0	10.0	10.7								
G51.0	9.1	9.6								
G52.0	8.4	8.5								
G53.0	7.6	7.8								
G54.0	7.2	7.2								
G55.0	6.6	6.6								
G56.0	5.8	6.1								
G57.0	5.4	5.7								
G58.0	4.8	5.1								
G59.0	4.8	4.6								
G60.0	4.0	4.2								
G61.0	3.6	3.9								
G62.0	3.4	3.6								
G63.0	3.0	3.1								
G64.0	2.7	2.7								
G65.0	2.2	2.4								
G66.0	1.9	2.2								
G67.0	1.8	1.9								
G68.0	1.3	1.6								
G69.0	1.5	1.3								
G70.0	1.2	1.2								
G71.0	1.0	0.9								
G72.0	1.0	1.0								
G73.0	0.8	0.8								

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

Inspector: