

Report No.:

Test Time: 2024-10-13 17:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 内调95 15D

Luminous Width (mm): -90

Current: 0.188 A

Power Factor: 0.984

Luminous Length (mm): -90

Voltage: 227.7 V

Power: 42.20 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4688.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H26.1

Vertical Diffuse Angle(50%): V26.1

Luminaire Efficacy Rating (LER): 111.16

Max. Intensity: 17918 cd

S/MH(C0/C180): 0.45

Total Rated Lamp Lumens: 4688.9 lm

Efficiency: 100%

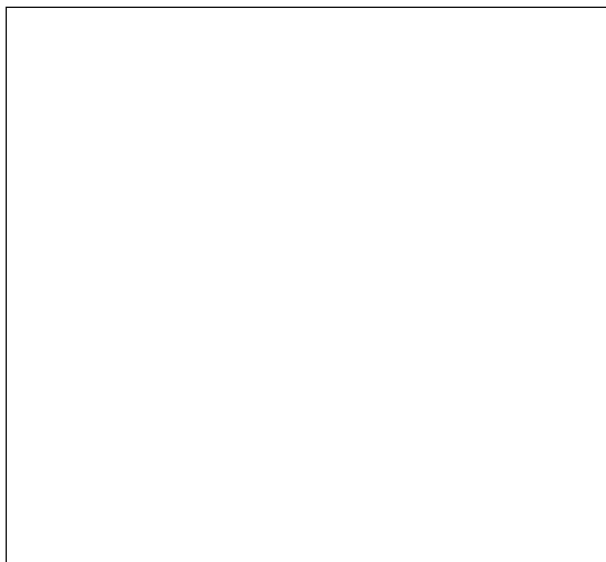
Upward Ratio: 0%

Central Intensity: 17918 cd

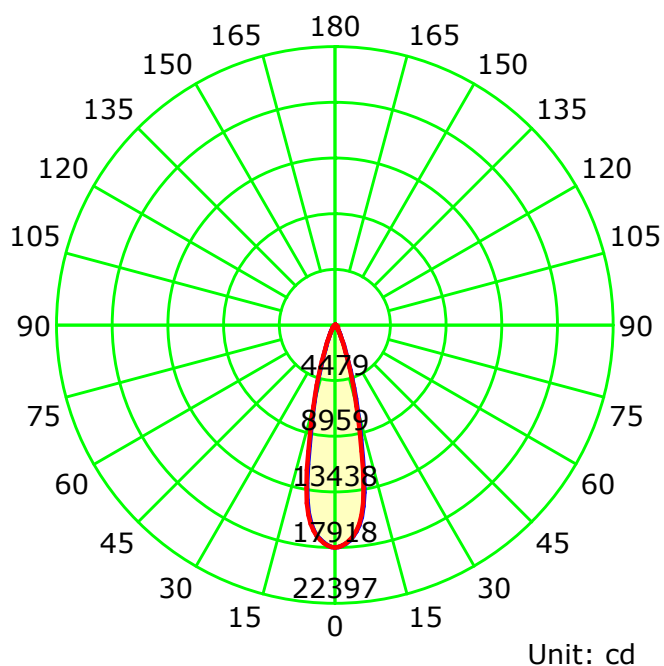
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.45

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

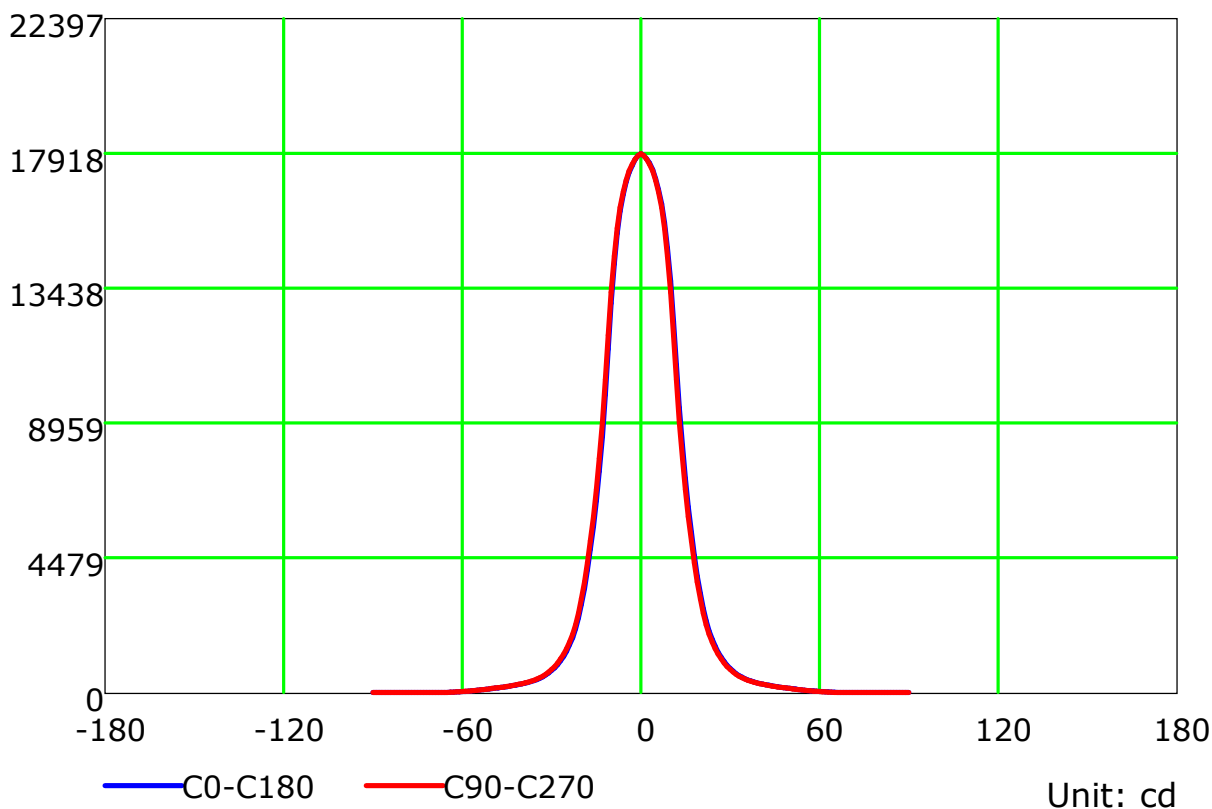
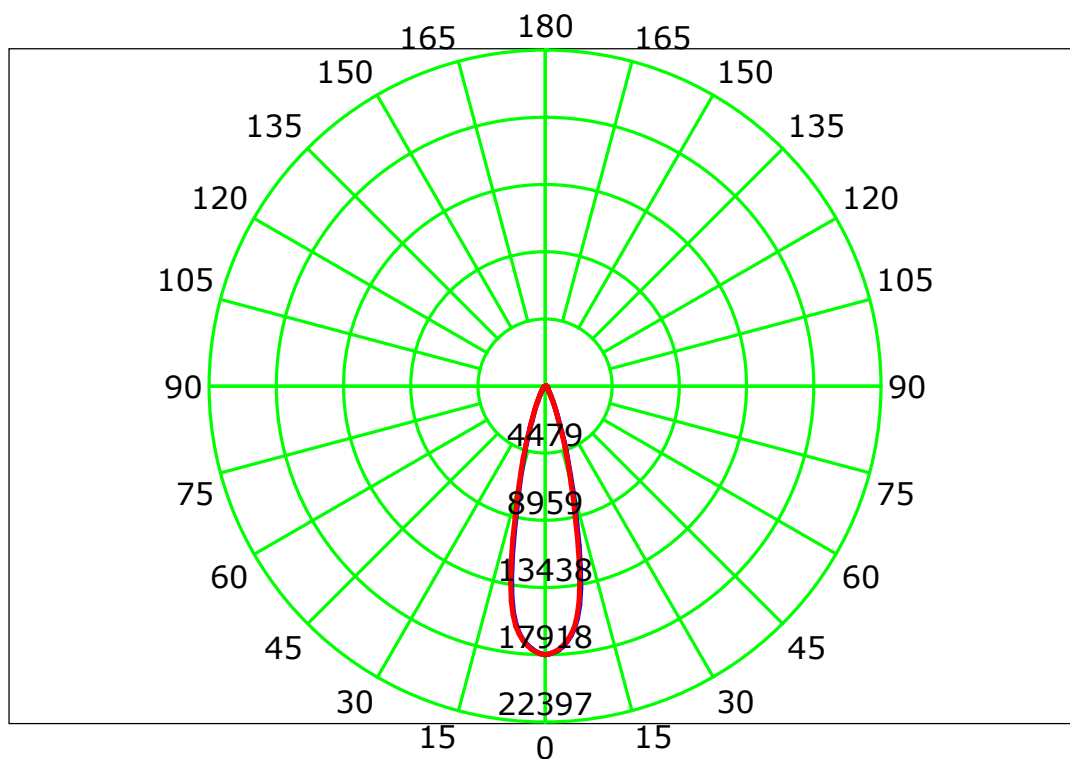
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

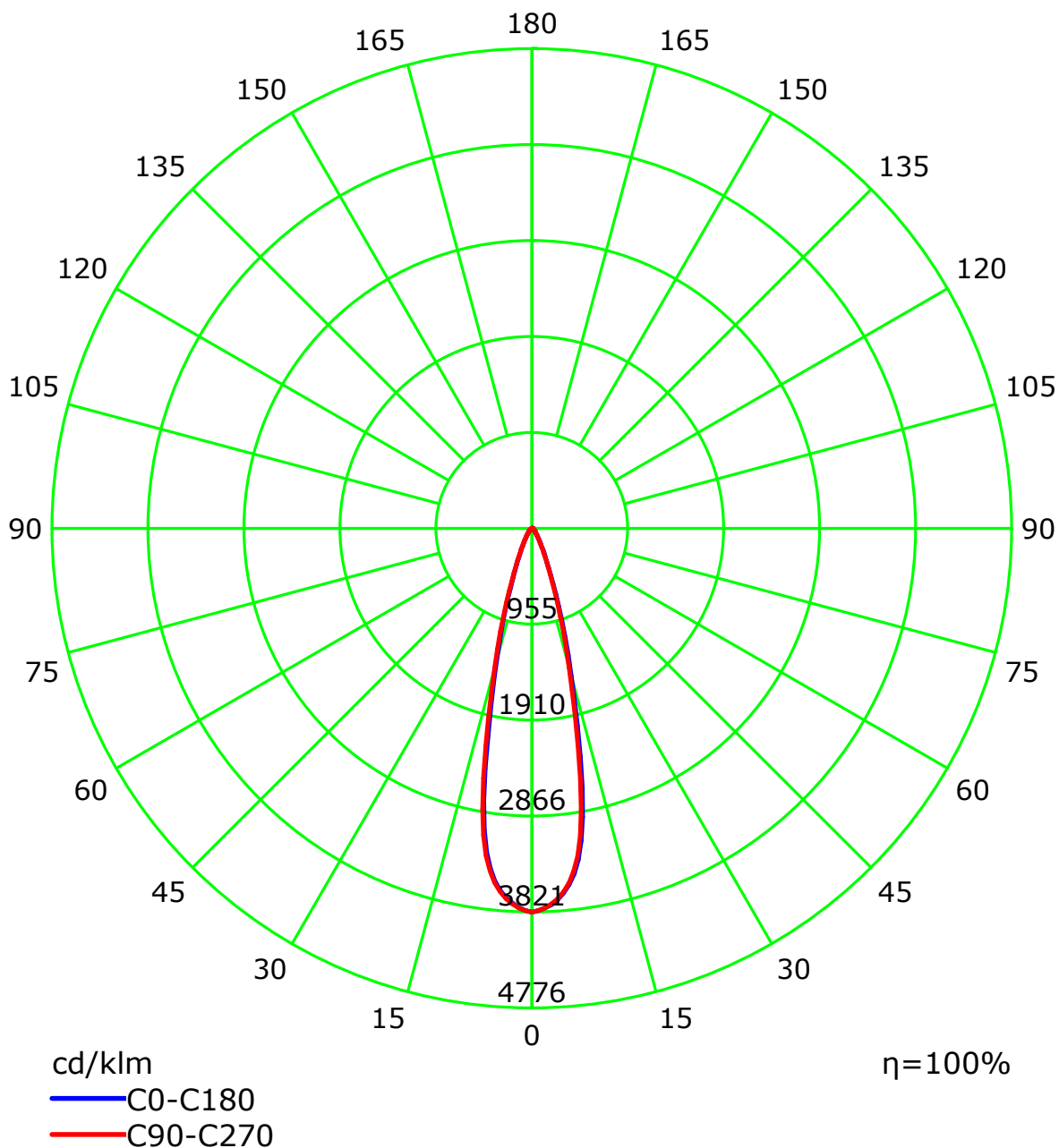
Luminous Intensity Distribution Curve



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:

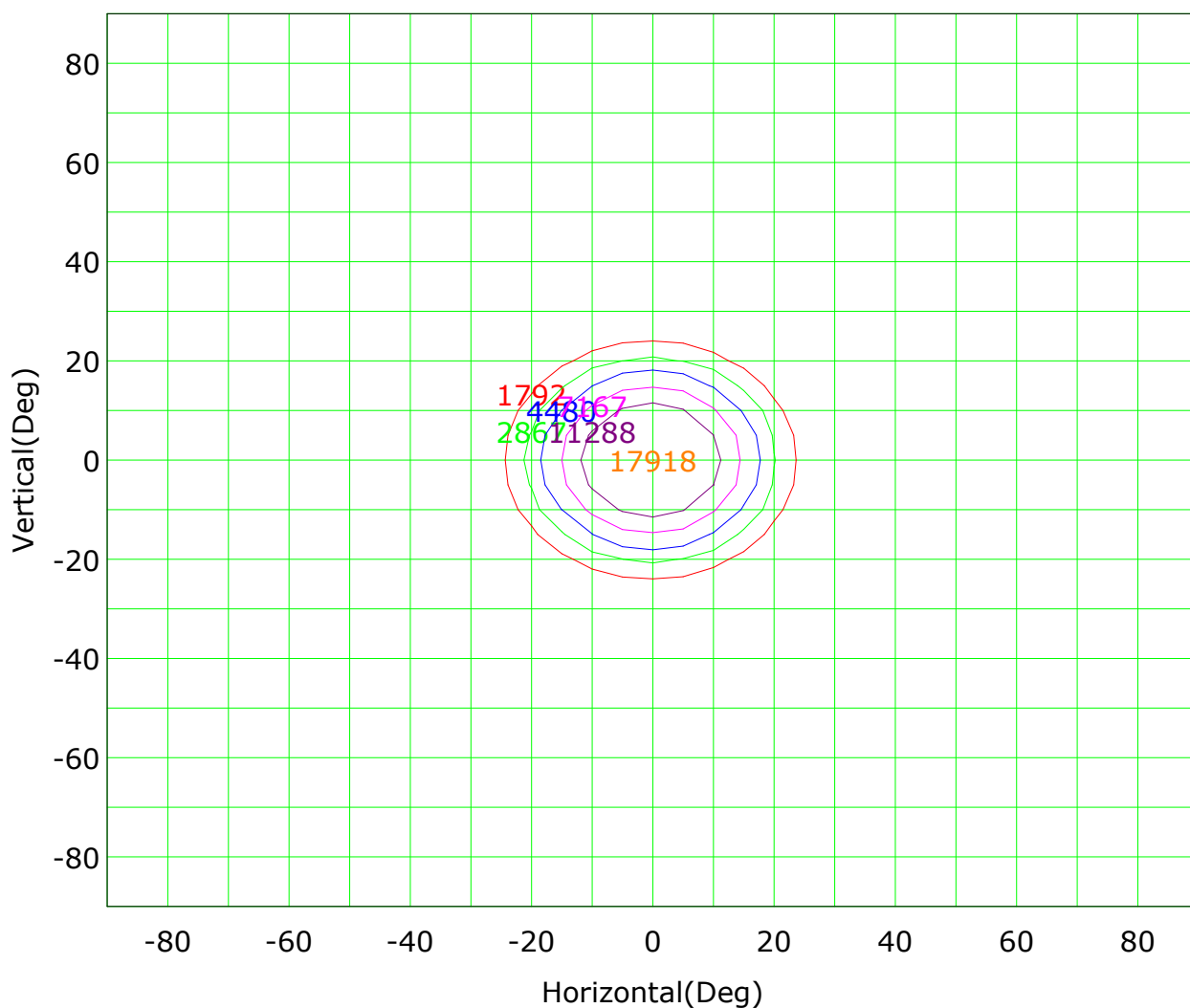
Luminous Intensity Distribution Curve(cd/klm)



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%): 17918 cd

(10%): 1792 cd	(16%): 2867 cd
(25%): 4480 cd	(40%): 7167 cd
(63%): 11288 cd	(100%): 17918 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

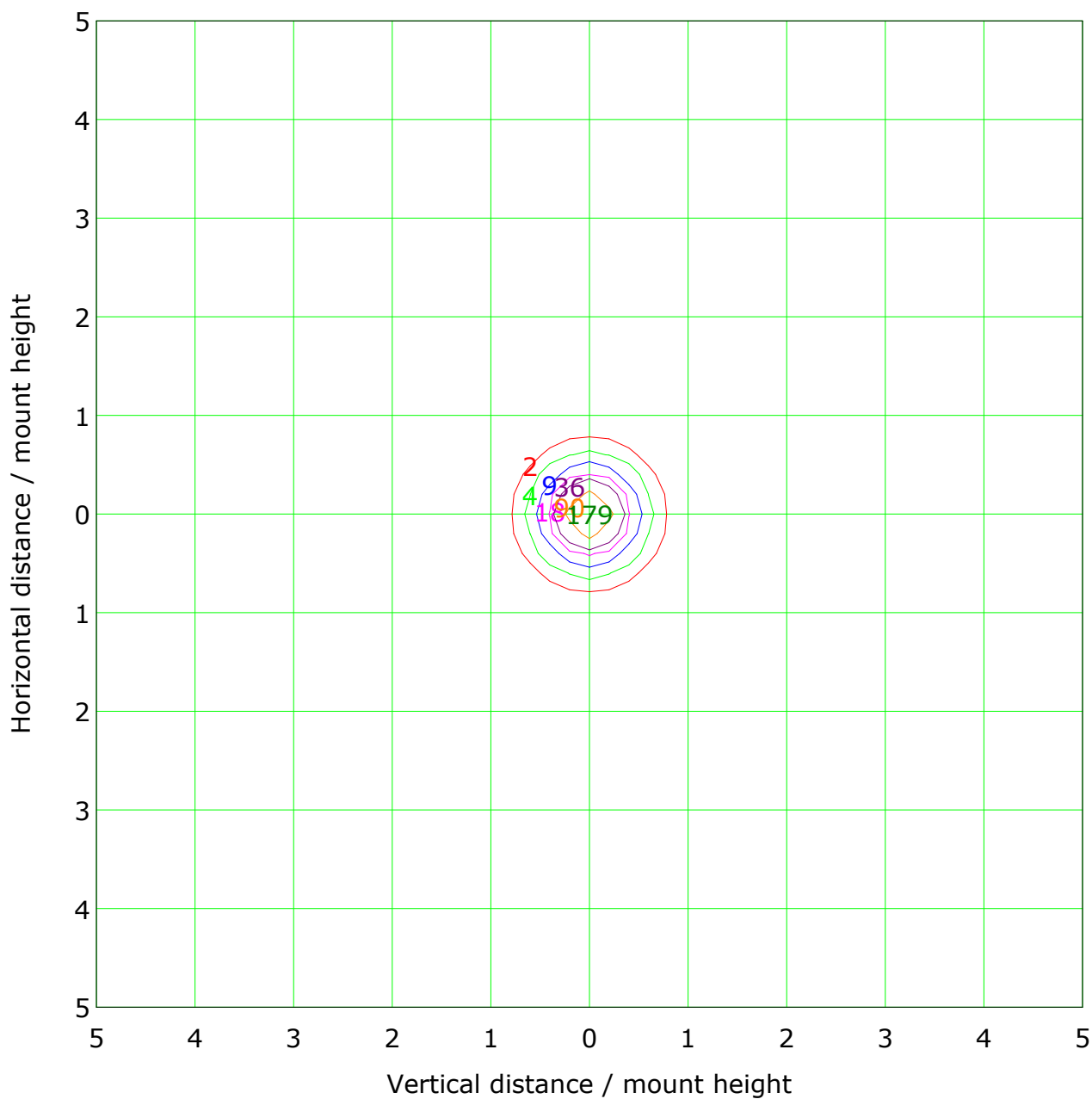
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 179.2 lx

(1%): 1.8 lx	(2%): 3.6 lx
(5%): 9.0 lx	(10%): 17.9 lx
(20%): 35.8 lx	(50%): 89.6 lx
(100%): 179.2 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

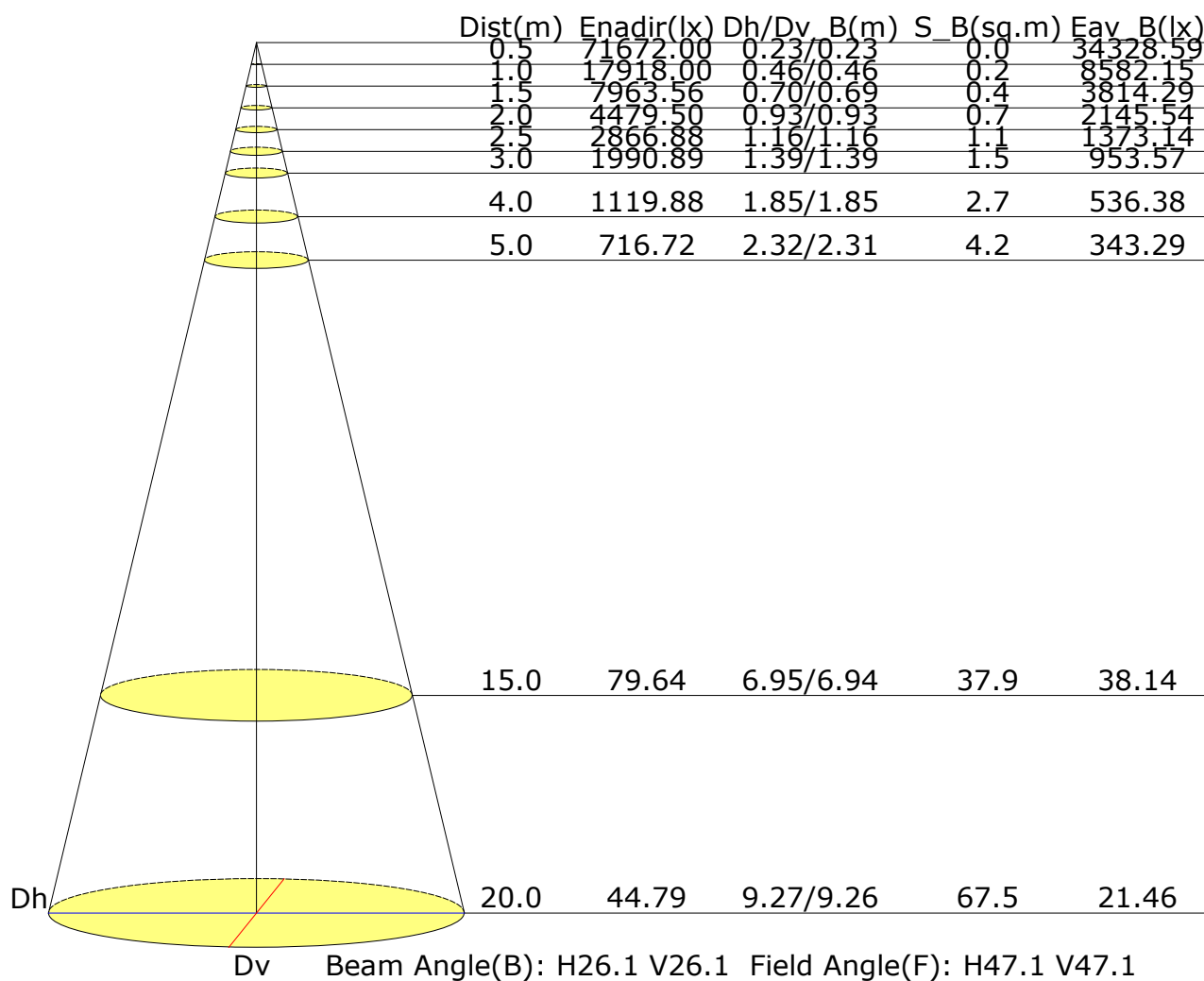
Test Device: CHL-6E

Distance: 3.328 m

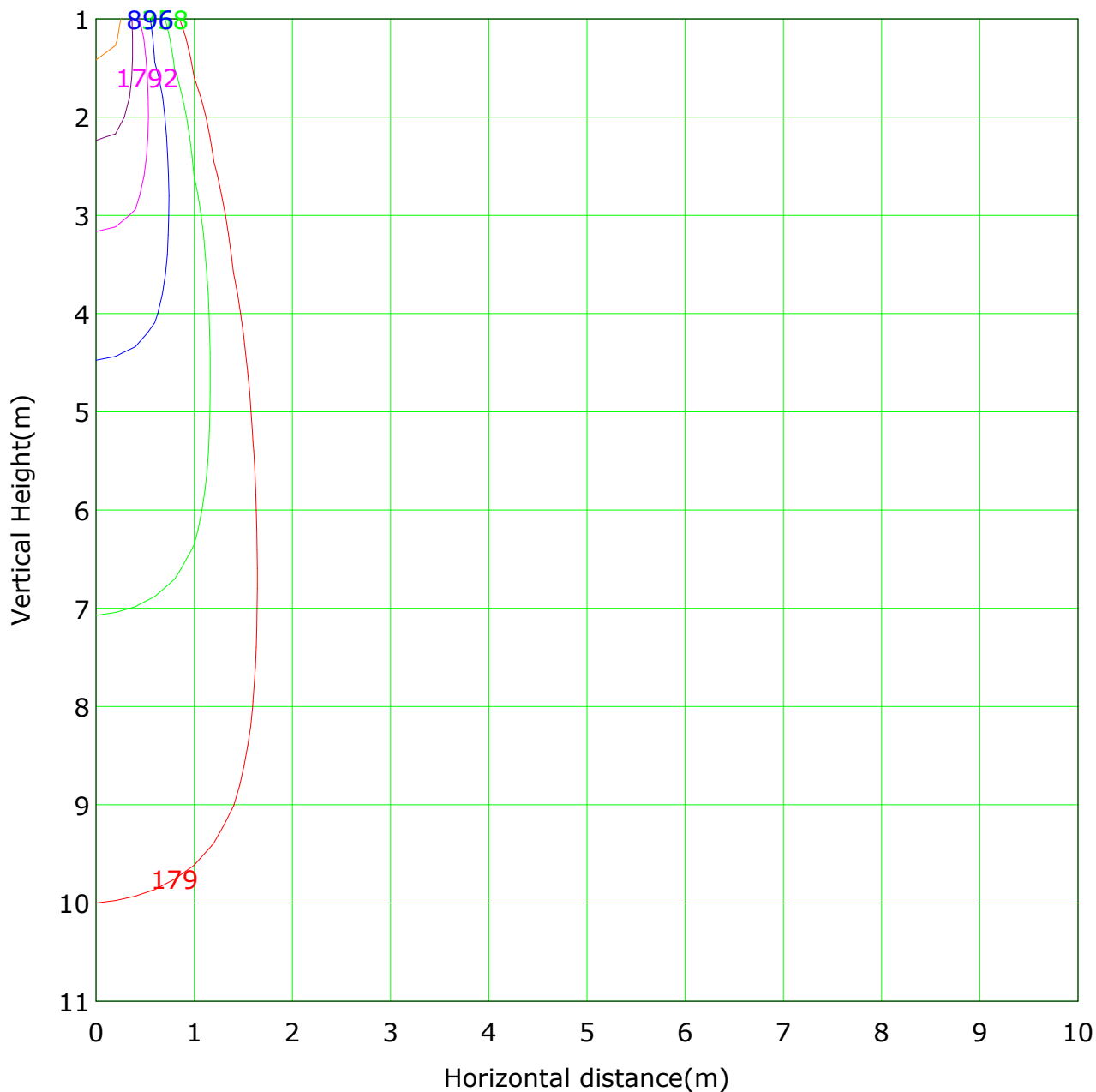
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



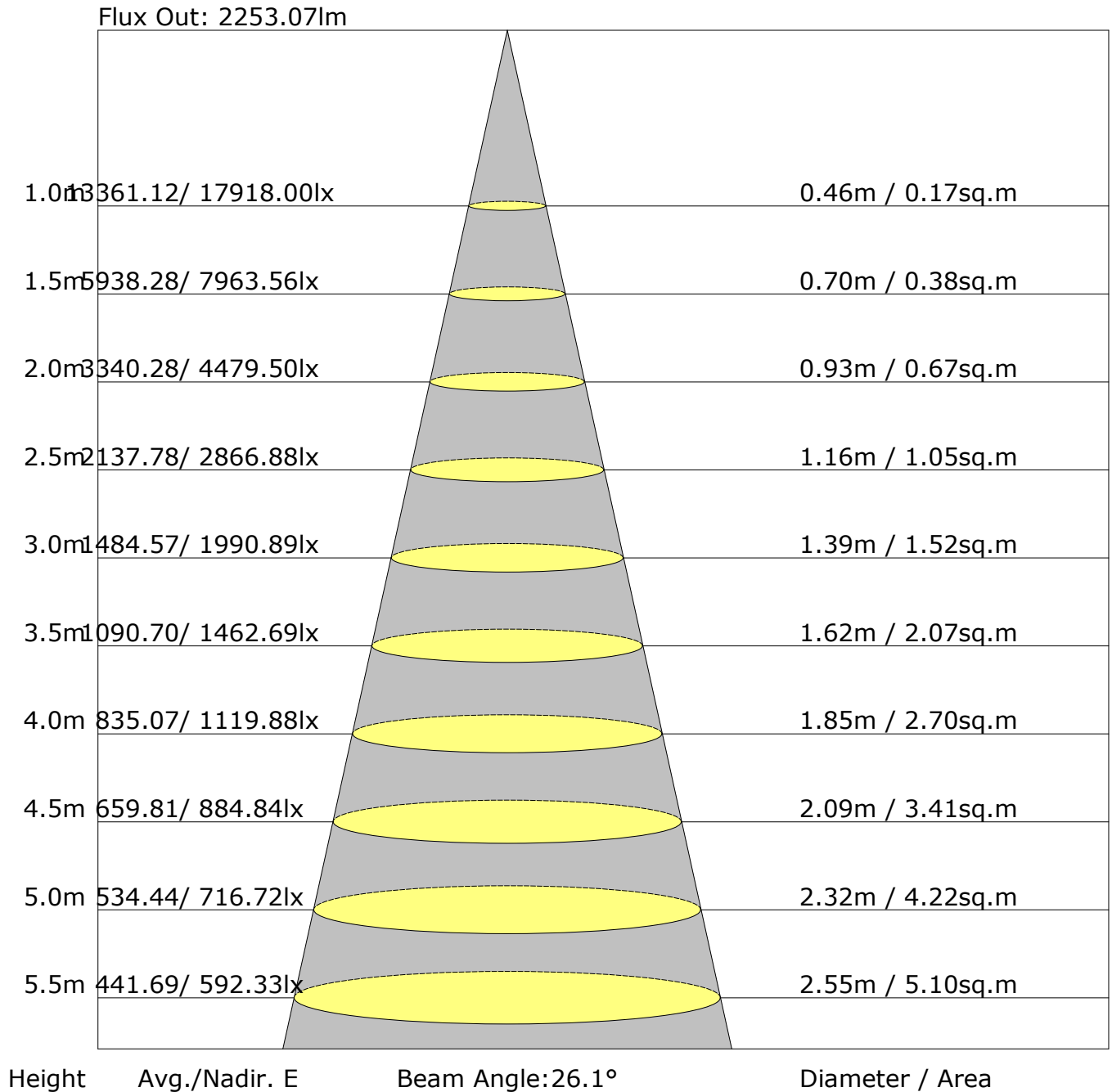
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 17918.0 lx
— (1%): 179.2 lx — (2%): 358.4 lx
— (5%): 895.9 lx — (10%): 1791.8 lx
— (20%): 3583.6 lx — (50%): 8959.0 lx
— (100%): 17918.0 lx

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	17.8	18.4	18.0	18.6	18.8	17.7	18.3	17.9	18.5	18.7
3H	17.6	18.2	17.9	18.5	18.7	17.5	18.1	17.8	18.4	18.6
4H	17.6	18.1	17.9	18.4	18.6	17.5	18.0	17.8	18.3	18.5
6H	17.5	18.0	17.8	18.3	18.6	17.4	17.9	17.7	18.2	18.5
8H	17.5	18.0	17.8	18.3	18.5	17.4	17.9	17.7	18.1	18.4
12H	17.4	17.9	17.8	18.2	18.5	17.3	17.8	17.7	18.1	18.4
X=4H Y=2H	17.7	18.2	18.0	18.5	18.8	17.6	18.1	17.9	18.4	18.7
3H	17.5	18.0	17.9	18.3	18.6	17.4	17.9	17.8	18.2	18.5
4H	17.4	17.9	17.8	18.2	18.6	17.3	17.8	17.7	18.1	18.5
6H	17.4	17.7	17.8	18.1	18.5	17.3	17.6	17.7	18.0	18.4
8H	17.3	17.7	17.7	18.1	18.5	17.2	17.6	17.6	18.0	18.4
12H	17.3	17.6	17.7	18.0	18.4	17.2	17.5	17.6	17.9	18.3
X=8H Y=4H	17.3	17.7	17.7	18.1	18.5	17.2	17.6	17.6	18.0	18.4
6H	17.2	17.5	17.7	17.9	18.4	17.1	17.4	17.6	17.8	18.3
8H	17.2	17.4	17.6	17.9	18.3	17.1	17.3	17.5	17.8	18.2
12H	17.1	17.3	17.6	17.8	18.3	17.0	17.2	17.5	17.7	18.2
X=12H Y=4H	17.3	17.6	17.7	18.0	18.4	17.2	17.5	17.6	17.9	18.3
6H	17.2	17.4	17.6	17.9	18.3	17.1	17.3	17.5	17.8	18.2
8H	17.1	17.3	17.6	17.8	18.3	17.0	17.2	17.5	17.7	18.2
Variations with the observer position at spacings:										
S=1.0H	+2.4/-3.3					+2.3/-3.3				
S=1.5H	+4.6/-8.7					+4.5/-8.9				
S=2.0H	+6.5/-31.9					+6.4/-34.4				

Calculate in accordance with CIE Pub.117. The table is revised with 4689lm ($8\log(F/F_0) = 5.4$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2386	50.9
	FL (0°-30°)	2110	45.0
	FM (30°-60°)	268	5.7
	FH (60°-80°)	7	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	2303	49.1
	BL (0°-30°)	2036	43.4
	BM (30°-60°)	261	5.6
	BH (60°-80°)	7	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)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 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	17885.6	17.1	17.1	0.37	0.37
1.0-2.0	17791.8	51.1	68.2	1.09	1.45
2.0-3.0	17646.5	84.4	152.6	1.80	3.25
3.0-4.0	17448.3	116.8	269.4	2.49	5.75
4.0-5.0	17182.5	147.8	417.2	3.15	8.90
5.0-6.0	16836.9	177.0	594.2	3.77	12.67
6.0-7.0	16381.5	203.4	797.6	4.34	17.01
7.0-8.0	15778.5	225.8	1023.4	4.82	21.83
8.0-9.0	14974.1	242.7	1266.1	5.18	27.00
9.0-10.0	13910.0	251.8	1517.9	5.37	32.37
10.0-11.0	12595.1	251.7	1769.6	5.37	37.74
11.0-12.0	11138.8	243.5	2013.1	5.19	42.93
12.0-13.0	9696.7	230.2	2243.3	4.91	47.84
13.0-14.0	8389.3	214.8	2458.0	4.58	52.42
14.0-15.0	7265.4	199.5	2657.5	4.25	56.68
15.0-16.0	6300.5	184.6	2842.2	3.94	60.62
16.0-17.0	5446.6	169.6	3011.8	3.62	64.23
17.0-18.0	4679.9	154.3	3166.1	3.29	67.52
18.0-19.0	3994.6	139.0	3305.1	2.96	70.49
19.0-20.0	3391.5	124.1	3429.3	2.65	73.14
20.0-21.0	2874.8	110.4	3539.7	2.35	75.49
21.0-22.0	2445.9	98.3	3638.0	2.10	77.59
22.0-23.0	2095.9	88.0	3725.9	1.88	79.46
23.0-24.0	1808.9	79.1	3805.0	1.69	81.15
24.0-25.0	1572.0	71.5	3876.5	1.52	82.67
25.0-26.0	1371.9	64.8	3941.3	1.38	84.06
26.0-27.0	1200.5	58.7	4000.0	1.25	85.31
27.0-28.0	1053.7	53.4	4053.4	1.14	86.45
28.0-29.0	927.5	48.5	4101.9	1.04	87.48
29.0-30.0	819.7	44.3	4146.2	0.94	88.43
30.0-31.0	727.4	40.5	4186.7	0.86	89.29
31.0-32.0	648.6	37.2	4223.8	0.79	90.08
32.0-33.0	580.6	34.2	4258.0	0.73	90.81
33.0-34.0	522.0	31.6	4289.6	0.67	91.49
34.0-35.0	471.5	29.3	4318.9	0.62	92.11
35.0-36.0	428.5	27.3	4346.2	0.58	92.69

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: 3.328 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	393.0	25.6	4371.8	0.55	93.24
37.0-38.0	361.8	24.2	4396.0	0.52	93.75
38.0-39.0	333.8	22.8	4418.8	0.49	94.24
39.0-40.0	308.5	21.5	4440.3	0.46	94.70
40.0-41.0	286.7	20.4	4460.7	0.44	95.13
41.0-42.0	267.1	19.4	4480.1	0.41	95.55
42.0-43.0	248.7	18.4	4498.6	0.39	95.94
43.0-44.0	231.3	17.5	4516.0	0.37	96.31
44.0-45.0	213.8	16.4	4532.4	0.35	96.66
45.0-46.0	198.2	15.5	4547.9	0.33	96.99
46.0-47.0	183.6	14.6	4562.5	0.31	97.31
47.0-48.0	169.2	13.7	4576.2	0.29	97.60
48.0-49.0	156.8	12.9	4589.1	0.27	97.87
49.0-50.0	144.6	12.1	4601.2	0.26	98.13
50.0-51.0	132.5	11.2	4612.4	0.24	98.37
51.0-52.0	120.6	10.4	4622.7	0.22	98.59
52.0-53.0	108.8	9.5	4632.2	0.20	98.79
53.0-54.0	97.5	8.6	4640.8	0.18	98.97
54.0-55.0	87.3	7.8	4648.6	0.17	99.14
55.0-56.0	77.3	7.0	4655.6	0.15	99.29
56.0-57.0	67.3	6.2	4661.7	0.13	99.42
57.0-58.0	57.3	5.3	4667.0	0.11	99.53
58.0-59.0	48.6	4.5	4671.6	0.10	99.63
59.0-60.0	41.1	3.9	4675.5	0.08	99.71
60.0-61.0	34.3	3.3	4678.7	0.07	99.78
61.0-62.0	29.6	2.9	4681.6	0.06	99.84
62.0-63.0	24.6	2.4	4684.0	0.05	99.90
63.0-64.0	18.1	1.8	4685.7	0.04	99.93
64.0-65.0	12.8	1.3	4687.0	0.03	99.96
65.0-66.0	9.7	1.0	4688.0	0.02	99.98
66.0-67.0	6.2	0.6	4688.6	0.01	99.99
67.0-68.0	2.2	0.2	4688.8	0.00	100.00
68.0-69.0	0.3	0.0	4688.9	0.00	100.00
69.0-70.0	0.0	0.0	4688.9	0.00	100.00
70.0-71.0	0.0	0.0	4688.9	0.00	100.00
71.0-72.0	0.0	0.0	4688.9	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: 3.328 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	17918.0	17918.0								
G1.0	17853.2	17853.2								
G2.0	17738.5	17722.3								
G3.0	17601.4	17524.1								
G4.0	17384.4	17283.5								
G5.0	17081.5	16980.5								
G6.0	16718.7	16566.6								
G7.0	16241.3	15999.4								
G8.0	15614.2	15258.9								
G9.0	14770.2	14252.9								
G10.0	13678.2	12938.9								
G11.0	12338.0	11425.5								
G12.0	10889.4	9902.1								
G13.0	9478.2	8517.1								
G14.0	8204.2	7357.7								
G15.0	7118.3	6381.6								
G16.0	6173.4	5528.9								
G17.0	5323.2	4760.9								
G18.0	4559.0	4076.5								
G19.0	3880.8	3461.9								
G20.0	3291.1	2932.1								
G21.0	2790.0	2485.8								
G22.0	2383.6	2124.3								
G23.0	2045.7	1830.1								
G24.0	1772.7	1587.0								
G25.0	1545.8	1382.5								
G26.0	1350.1	1209.2								
G27.0	1180.6	1062.1								
G28.0	1037.2	935.0								
G29.0	910.0	827.8								
G30.0	805.3	735.5								
G31.0	715.6	653.2								
G32.0	638.3	587.2								
G33.0	568.5	528.6								
G34.0	512.4	478.7								
G35.0	462.5	432.6								
G36.0	422.6	396.4								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
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Distance: 3.328 m
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Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	389.0	364.0								
G38.0	357.8	336.6								
G39.0	329.1	311.7								
G40.0	304.2	289.2								
G41.0	284.2	269.3								
G42.0	263.0	251.8								
G43.0	245.6	234.4								
G44.0	226.9	218.2								
G45.0	208.2	202.0								
G46.0	194.5	188.2								
G47.0	178.3	173.3								
G48.0	165.8	159.6								
G49.0	152.1	149.6								
G50.0	139.6	137.1								
G51.0	128.4	124.7								
G52.0	117.2	112.2								
G53.0	103.5	102.2								
G54.0	93.5	91.0								
G55.0	83.5	81.0								
G56.0	73.6	71.1								
G57.0	63.6	61.1								
G58.0	54.8	49.9								
G59.0	47.4	42.4								
G60.0	38.7	36.2								
G61.0	32.4	29.9								
G62.0	28.7	27.4								
G63.0	22.4	20.0								
G64.0	16.2	13.7								
G65.0	11.2	10.0								
G66.0	8.7	8.7								
G67.0	3.7	3.7								
G68.0	1.3	0.0								
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
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Unit: cd

Inspector: