

Report No.:

Test Time: 2026-09-28 18:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Length (mm): -76

Voltage: 230.8 V

Power: 35.70 W

Lamp Description: BLX V13C F90 3000K

Luminous Width (mm): -76

Current: 0.160 A

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Measurement Flux: 4248.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.7

Vertical Diffuse Angle(50%): V22.7

Luminaire Efficacy Rating (LER): 119.06

Max. Intensity: 21716.25 cd

S/MH(C0/C180): 0.39

Total Rated Lamp Lumens: 4248.7 lm

Efficiency: 100%

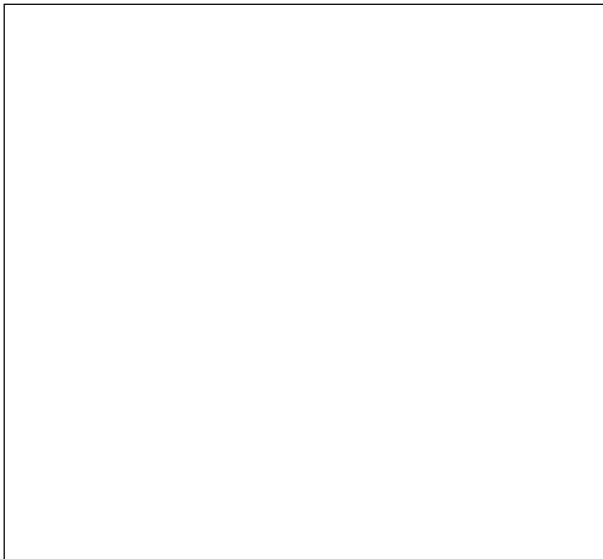
Upward Ratio: 0%

Central Intensity: 21610.71 cd

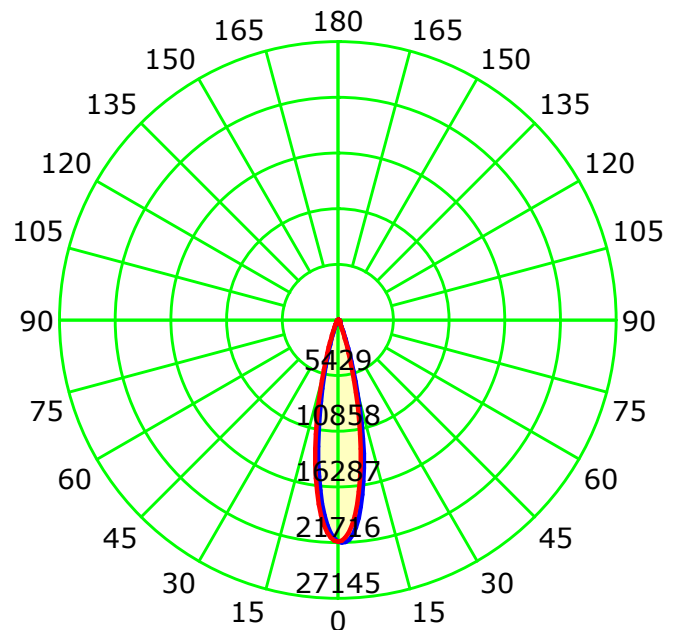
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.39

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

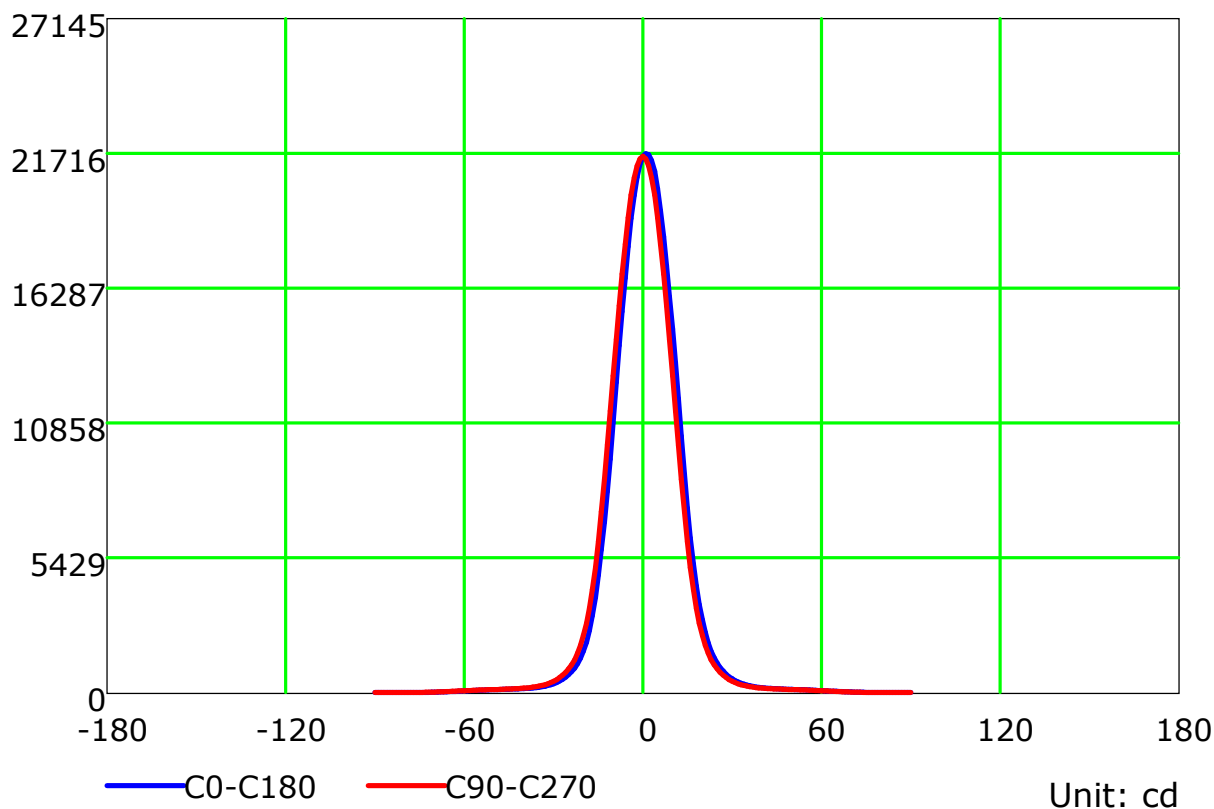
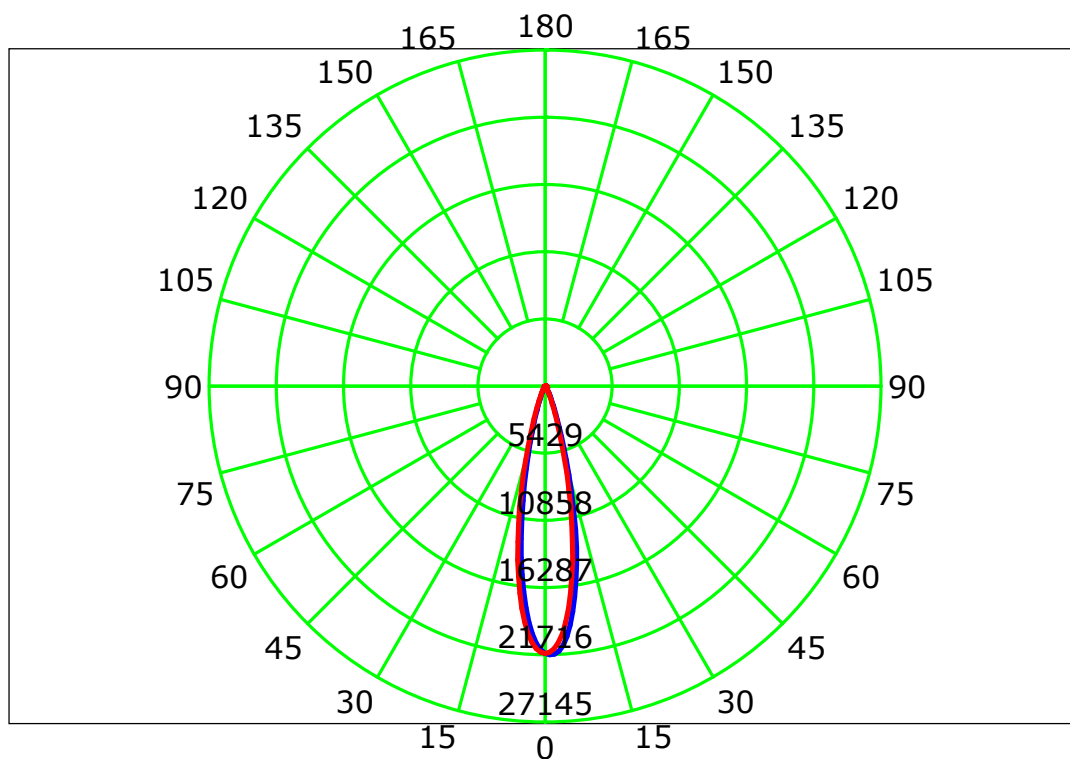
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

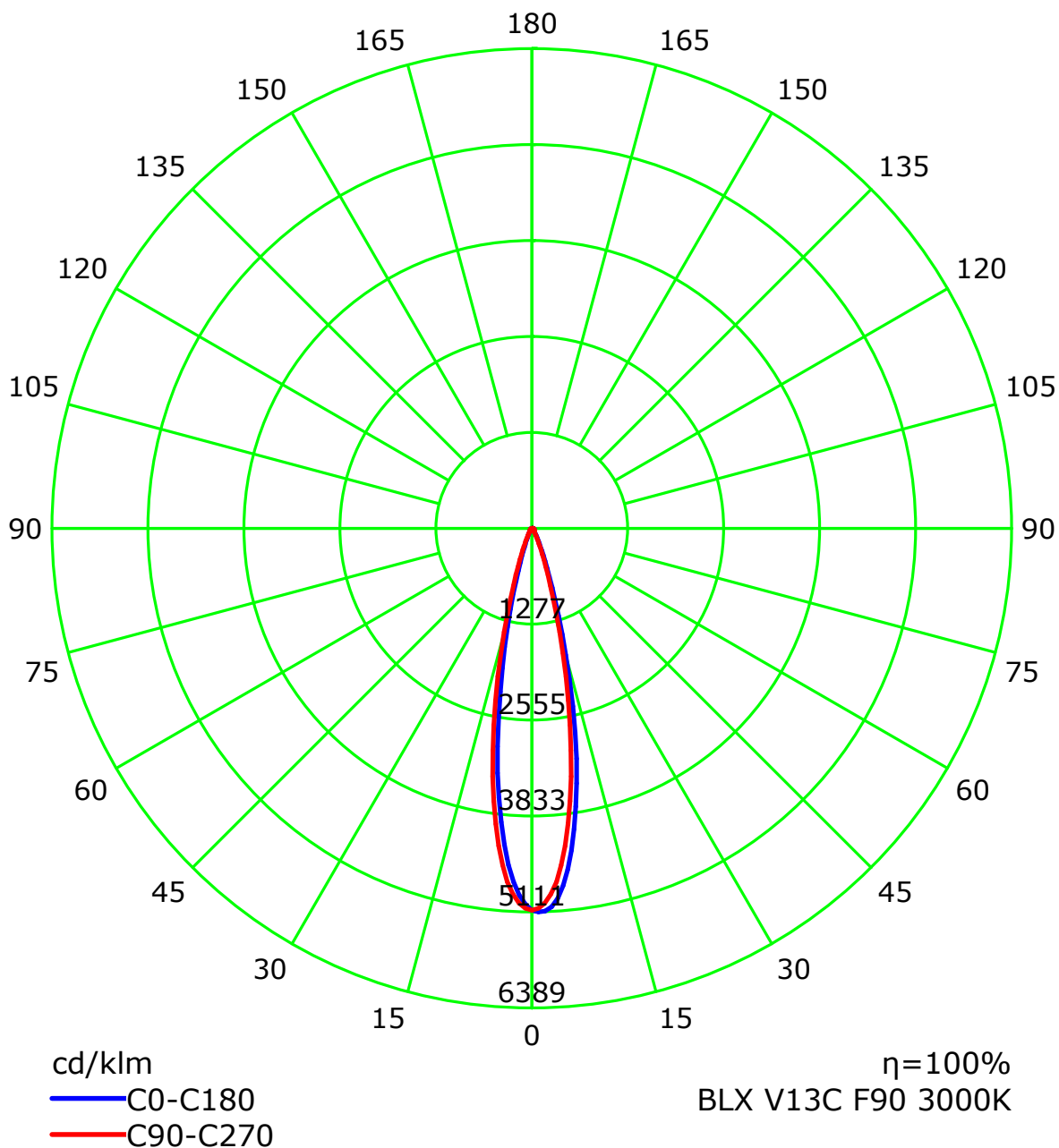


Unit: cd

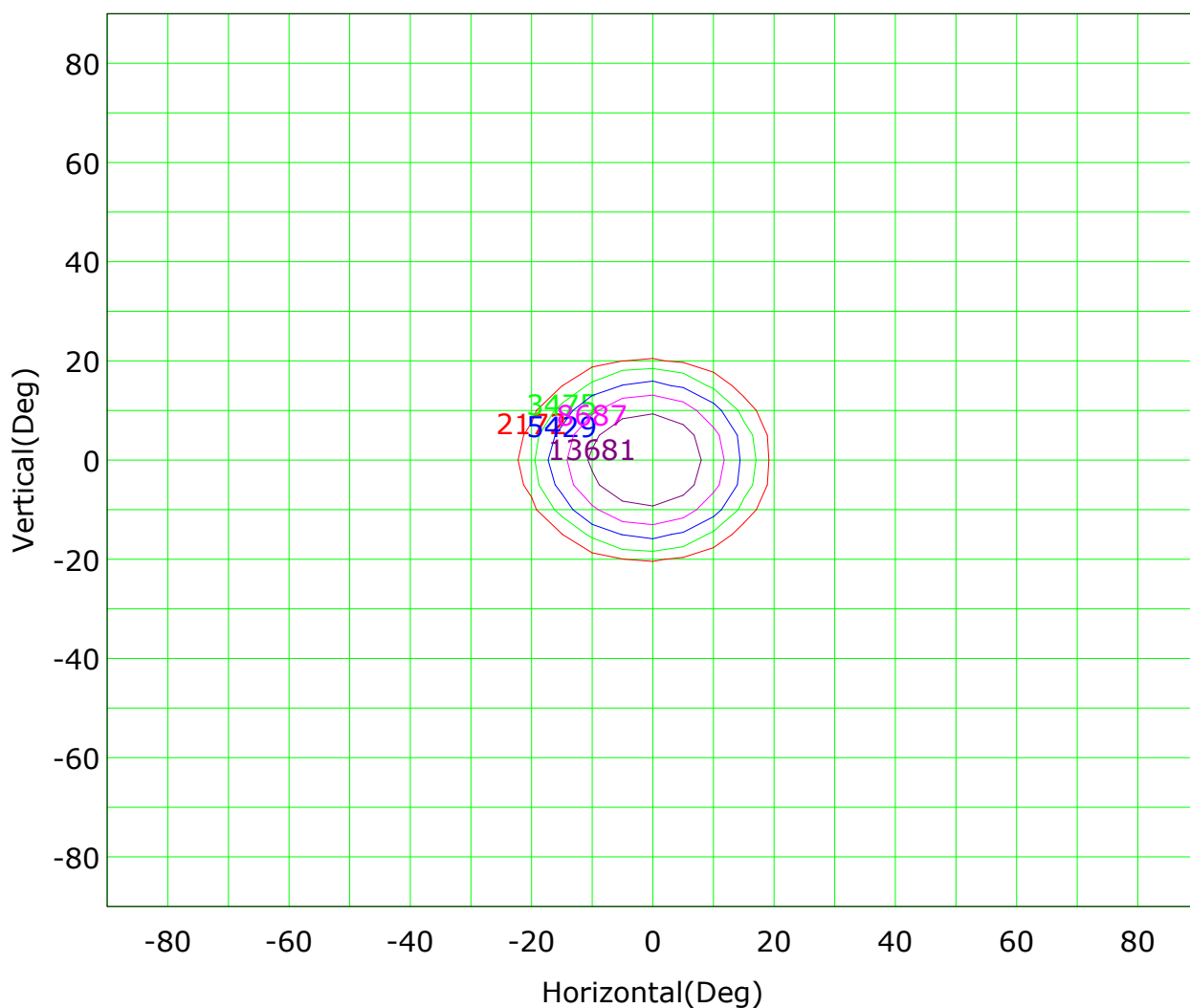
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 21716 cd

(10%): 2172 cd	(16%): 3475 cd
(25%): 5429 cd	(40%): 8687 cd
(63%): 13681 cd	(100%): 21716 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

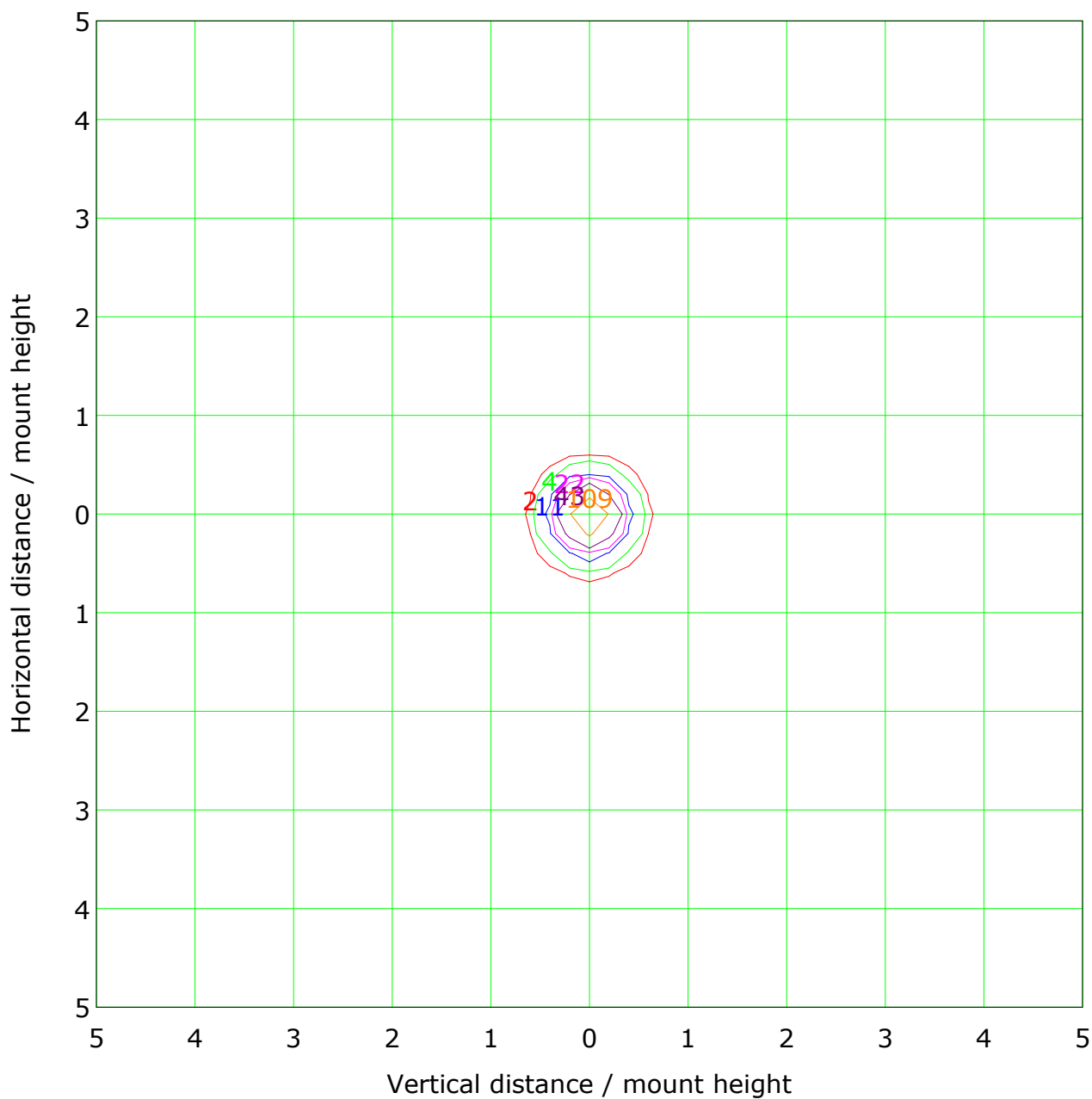
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



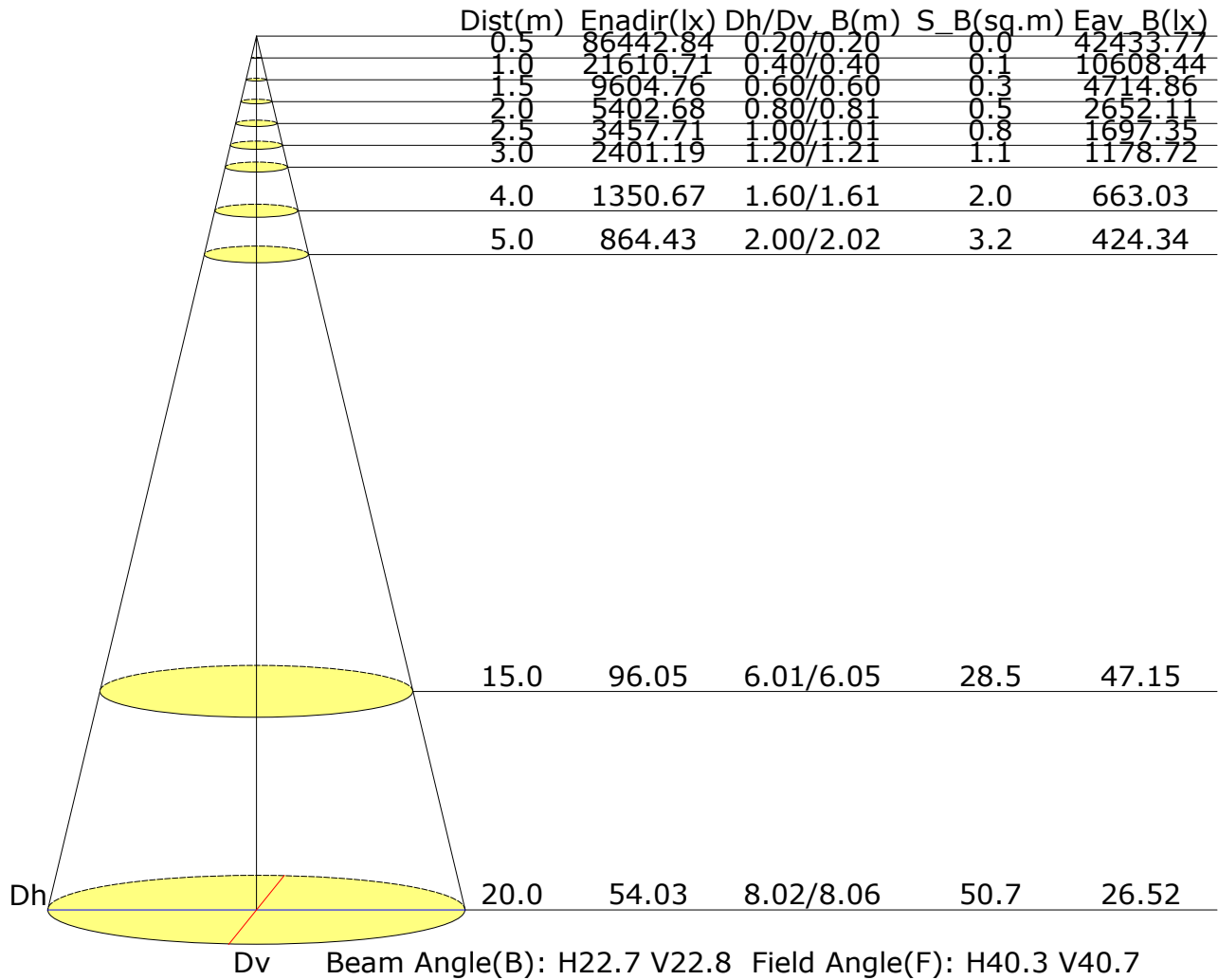
Mounting Height: 10.0m Max Lux(100%): 217.1 lx

— (1%): 2.2 lx	— (2%): 4.3 lx
— (5%): 10.9 lx	— (10%): 21.7 lx
— (20%): 43.4 lx	— (50%): 108.5 lx
— (100%): 217.1 lx	

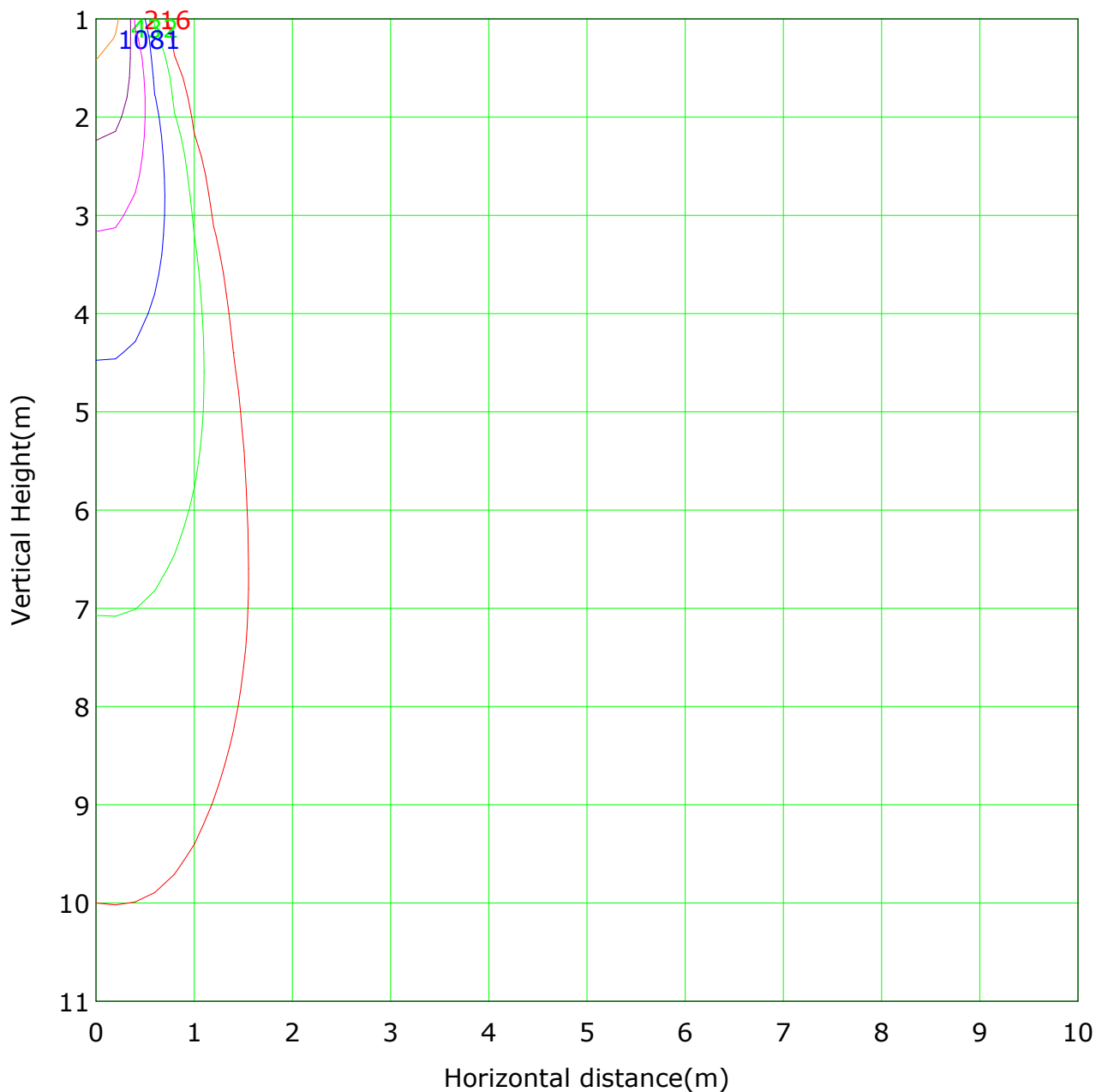
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



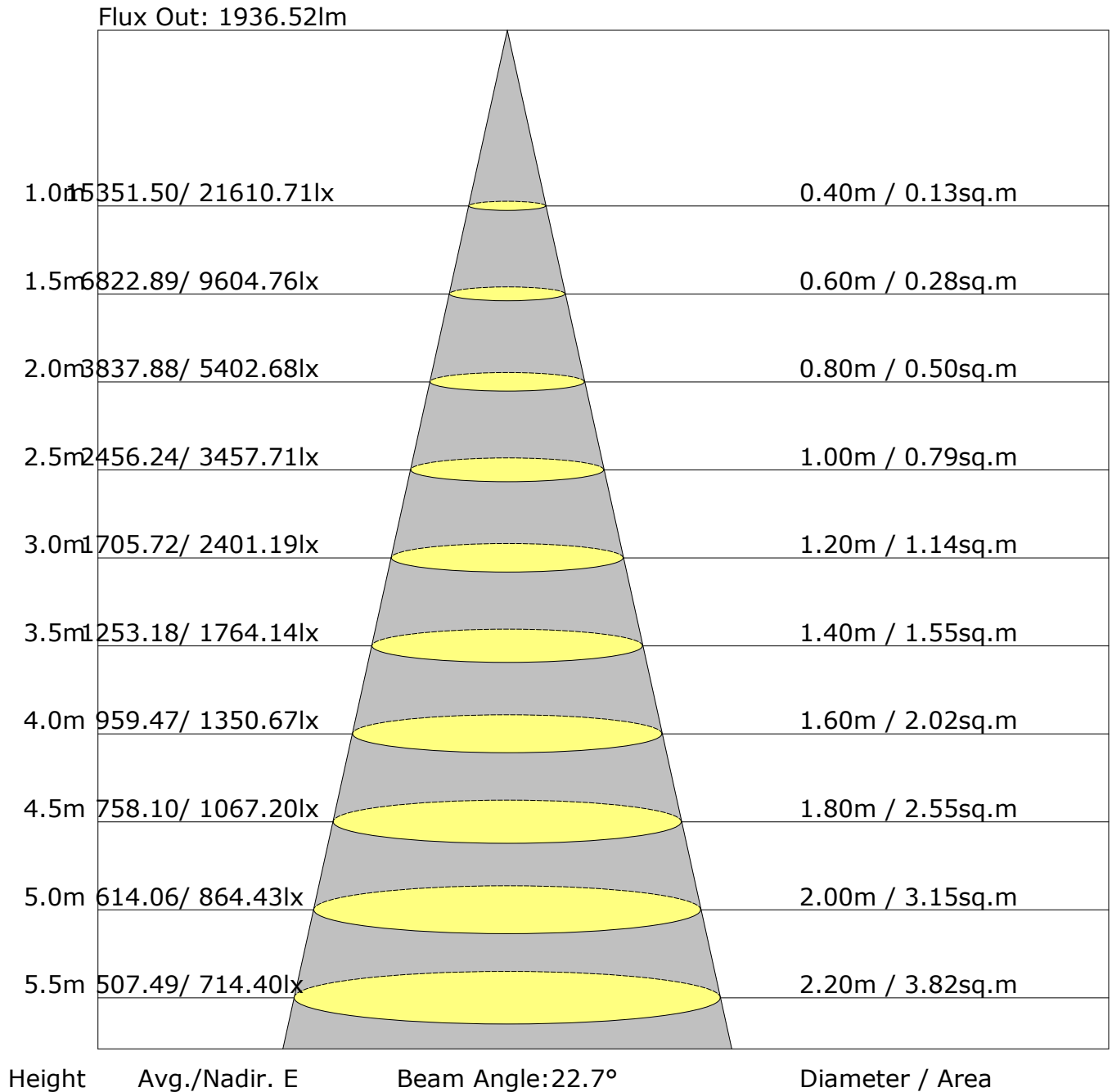
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 21610.7 lx
— (1%): 216.1 lx — (2%): 432.2 lx
— (5%): 1080.5 lx — (10%): 2161.1 lx
— (20%): 4322.1 lx — (50%): 10805.4 lx
— (100%): 21610.7 lx

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 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: 3.010 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	19.1	19.8	19.4	20.0	20.2	18.8	19.4	19.0	19.6	19.8
3H	19.7	20.2	19.9	20.5	20.7	19.2	19.8	19.5	20.0	20.3
4H	19.7	20.3	20.0	20.5	20.8	19.3	19.8	19.6	20.1	20.3
6H	19.7	20.2	20.0	20.5	20.8	19.2	19.7	19.5	20.0	20.3
8H	19.6	20.1	20.0	20.4	20.7	19.2	19.7	19.5	20.0	20.3
12H	19.6	20.1	19.9	20.4	20.7	19.1	19.6	19.5	19.9	20.2
X=4H Y=2H	19.5	20.0	19.8	20.3	20.5	19.2	19.7	19.5	20.0	20.2
3H	20.0	20.5	20.4	20.8	21.1	19.7	20.1	20.0	20.4	20.8
4H	20.1	20.5	20.5	20.9	21.2	19.7	20.1	20.1	20.5	20.8
6H	20.1	20.5	20.5	20.8	21.2	19.6	20.0	20.1	20.4	20.8
8H	20.0	20.4	20.4	20.8	21.2	19.6	19.9	20.0	20.3	20.7
12H	20.0	20.3	20.4	20.7	21.1	19.6	19.9	20.0	20.3	20.7
X=8H Y=4H	20.0	20.4	20.5	20.8	21.2	19.7	20.0	20.1	20.4	20.8
6H	20.0	20.3	20.5	20.7	21.2	19.6	19.9	20.0	20.3	20.8
8H	20.0	20.2	20.4	20.7	21.1	19.5	19.8	20.0	20.2	20.7
12H	19.9	20.1	20.4	20.6	21.1	19.5	19.7	20.0	20.2	20.7
X=12H Y=4H	20.0	20.3	20.4	20.7	21.1	19.6	19.9	20.0	20.3	20.8
6H	20.0	20.2	20.4	20.7	21.1	19.5	19.8	20.0	20.2	20.7
8H	19.9	20.1	20.4	20.6	21.1	19.5	19.7	20.0	20.2	20.7
Variations with the observer position at spacings:										
S=1.0H	+0.8/-0.6					+0.7/-0.6				
S=1.5H	+1.7/-1.3					+1.3/-1.5				
S=2.0H	+2.8/-3.3					+2.3/-3.4				

Calculate in accordance with CIE Pub.117. The table is revised with 4249lm ($8\log(F/F_0) = 5.0$).

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: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2291	53.9
	FL (0°-30°)	2059	48.5
	FM (30°-60°)	200	4.7
	FH (60°-80°)	32	0.7
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1958	46.1
	BL (0°-30°)	1752	41.2
	BM (30°-60°)	178	4.2
	BH (60°-80°)	27	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)	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: 3.010 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	21557.6	20.6	20.6	0.49	0.49
1.0-2.0	21362.0	61.3	82.0	1.44	1.93
2.0-3.0	20979.4	100.4	182.3	2.36	4.29
3.0-4.0	20394.0	136.5	318.8	3.21	7.50
4.0-5.0	19590.1	168.6	487.4	3.97	11.47
5.0-6.0	18594.7	195.4	682.8	4.60	16.07
6.0-7.0	17456.7	216.7	899.5	5.10	21.17
7.0-8.0	16219.0	232.2	1131.7	5.46	26.64
8.0-9.0	14903.9	241.6	1373.3	5.69	32.32
9.0-10.0	13493.5	244.2	1617.5	5.75	38.07
10.0-11.0	12053.7	240.9	1858.4	5.67	43.74
11.0-12.0	10658.4	233.0	2091.4	5.48	49.22
12.0-13.0	9285.6	220.4	2311.8	5.19	54.41
13.0-14.0	7937.0	203.2	2515.0	4.78	59.19
14.0-15.0	6678.2	183.4	2698.3	4.32	63.51
15.0-16.0	5560.6	163.0	2861.3	3.84	67.35
16.0-17.0	4589.3	142.9	3004.2	3.36	70.71
17.0-18.0	3771.8	124.4	3128.6	2.93	73.64
18.0-19.0	3098.6	107.8	3236.4	2.54	76.17
19.0-20.0	2547.9	93.3	3329.7	2.20	78.37
20.0-21.0	2104.3	80.8	3410.5	1.90	80.27
21.0-22.0	1746.6	70.2	3480.7	1.65	81.92
22.0-23.0	1457.1	61.1	3541.8	1.44	83.36
23.0-24.0	1223.8	53.5	3595.4	1.26	84.62
24.0-25.0	1037.6	47.2	3642.5	1.11	85.73
25.0-26.0	886.5	41.9	3684.4	0.99	86.72
26.0-27.0	761.0	37.2	3721.6	0.88	87.59
27.0-28.0	655.5	33.2	3754.8	0.78	88.38
28.0-29.0	566.1	29.6	3784.4	0.70	89.07
29.0-30.0	491.1	26.5	3811.0	0.62	89.70
30.0-31.0	428.9	23.9	3834.8	0.56	90.26
31.0-32.0	378.8	21.7	3856.5	0.51	90.77
32.0-33.0	336.6	19.8	3876.4	0.47	91.24
33.0-34.0	300.8	18.2	3894.6	0.43	91.67
34.0-35.0	272.1	16.9	3911.5	0.40	92.06
35.0-36.0	248.4	15.8	3927.3	0.37	92.44

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: 3.010 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	228.4	14.9	3942.2	0.35	92.79
37.0-38.0	211.4	14.1	3956.3	0.33	93.12
38.0-39.0	197.5	13.5	3969.8	0.32	93.44
39.0-40.0	186.6	13.0	3982.8	0.31	93.74
40.0-41.0	177.2	12.6	3995.4	0.30	94.04
41.0-42.0	168.5	12.2	4007.7	0.29	94.33
42.0-43.0	160.6	11.9	4019.6	0.28	94.61
43.0-44.0	154.9	11.7	4031.3	0.28	94.88
44.0-45.0	150.0	11.5	4042.8	0.27	95.15
45.0-46.0	145.5	11.4	4054.2	0.27	95.42
46.0-47.0	141.3	11.2	4065.4	0.26	95.69
47.0-48.0	136.1	11.0	4076.4	0.26	95.95
48.0-49.0	131.2	10.8	4087.2	0.25	96.20
49.0-50.0	127.4	10.6	4097.8	0.25	96.45
50.0-51.0	124.0	10.5	4108.3	0.25	96.70
51.0-52.0	120.6	10.4	4118.7	0.24	96.94
52.0-53.0	116.5	10.1	4128.8	0.24	97.18
53.0-54.0	111.2	9.8	4138.6	0.23	97.41
54.0-55.0	105.9	9.5	4148.0	0.22	97.63
55.0-56.0	101.0	9.1	4157.2	0.21	97.85
56.0-57.0	96.1	8.8	4166.0	0.21	98.05
57.0-58.0	90.1	8.3	4174.3	0.20	98.25
58.0-59.0	84.1	7.9	4182.2	0.18	98.43
59.0-60.0	77.6	7.3	4189.5	0.17	98.61
60.0-61.0	71.2	6.8	4196.3	0.16	98.77
61.0-62.0	66.7	6.4	4202.7	0.15	98.92
62.0-63.0	61.1	5.9	4208.7	0.14	99.06
63.0-64.0	55.4	5.4	4214.1	0.13	99.19
64.0-65.0	50.1	5.0	4219.1	0.12	99.30
65.0-66.0	44.5	4.4	4223.5	0.10	99.41
66.0-67.0	39.6	4.0	4227.5	0.09	99.50
67.0-68.0	34.3	3.5	4230.9	0.08	99.58
68.0-69.0	29.4	3.0	4233.9	0.07	99.65
69.0-70.0	26.0	2.7	4236.6	0.06	99.72
70.0-71.0	23.0	2.4	4239.0	0.06	99.77
71.0-72.0	19.2	2.0	4241.0	0.05	99.82

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	21610.7	21610.7								
G1.0	21716.3	21292.6								
G2.0	21665.0	20774.0								
G3.0	21440.3	20038.2								
G4.0	20997.1	19100.5								
G5.0	20296.0	17966.7								
G6.0	19412.6	16703.3								
G7.0	18355.7	15355.5								
G8.0	17184.2	13980.5								
G9.0	15948.0	12503.0								
G10.0	14648.4	10874.7								
G11.0	13279.4	9412.3								
G12.0	11841.1	8100.6								
G13.0	10330.4	6870.4								
G14.0	8792.6	5754.7								
G15.0	7431.2	4734.0								
G16.0	6238.7	3838.5								
G17.0	5177.3	3102.8								
G18.0	4296.8	2510.2								
G19.0	3552.0	2035.3								
G20.0	2933.9	1670.5								
G21.0	2425.8	1387.0								
G22.0	2008.2	1165.4								
G23.0	1666.0	989.0								
G24.0	1397.6	842.8								
G25.0	1186.5	723.7								
G26.0	1013.1	622.7								
G27.0	868.4	539.7								
G28.0	746.3	467.4								
G29.0	643.8	407.1								
G30.0	557.8	355.8								
G31.0	487.0	315.1								
G32.0	428.2	285.0								
G33.0	375.4	257.8								
G34.0	336.2	233.7								
G35.0	301.5	217.1								
G36.0	271.4	203.5								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	248.8	190.0								
G38.0	229.2	177.9								
G39.0	212.6	170.4								
G40.0	200.5	162.8								
G41.0	188.5	156.8								
G42.0	177.9	150.8								
G43.0	168.9	144.7								
G44.0	161.3	144.7								
G45.0	155.3	138.7								
G46.0	153.8	134.2								
G47.0	144.7	132.7								
G48.0	141.7	125.1								
G49.0	137.2	120.6								
G50.0	132.7	119.1								
G51.0	128.1	116.1								
G52.0	126.6	111.6								
G53.0	120.6	107.0								
G54.0	116.1	101.0								
G55.0	110.1	96.5								
G56.0	105.5	92.0								
G57.0	101.0	85.9								
G58.0	93.5	79.9								
G59.0	88.9	73.9								
G60.0	81.4	66.3								
G61.0	76.9	60.3								
G62.0	72.4	57.3								
G63.0	63.3	51.3								
G64.0	58.8	48.2								
G65.0	54.3	39.2								
G66.0	49.8	34.7								
G67.0	42.2	31.7								
G68.0	36.2	27.1								
G69.0	31.7	22.6								
G70.0	28.6	21.1								
G71.0	24.1	18.1								
G72.0	22.6	12.1								
G73.0	19.6	12.1								

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Unit: cd

Inspector: