

Report No.:

Test Time: 2026-09-29 16:53

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA50-AD-300MA-15D

Lamp Description: Blx V4HD F90 3000K

Luminous Width (mm): -43

Current: 0.124 A

Power Factor: 0.537

Luminous Length (mm): -43

Voltage: 223.2 V

Power: 14.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 592.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H17.9

Vertical Diffuse Angle(50%): V17.9

Luminaire Efficacy Rating (LER): 39.84

Max. Intensity: 4973.75 cd

S/MH(C0/C180): 0.31

Total Rated Lamp Lumens: 592.9 lm

Efficiency: 100%

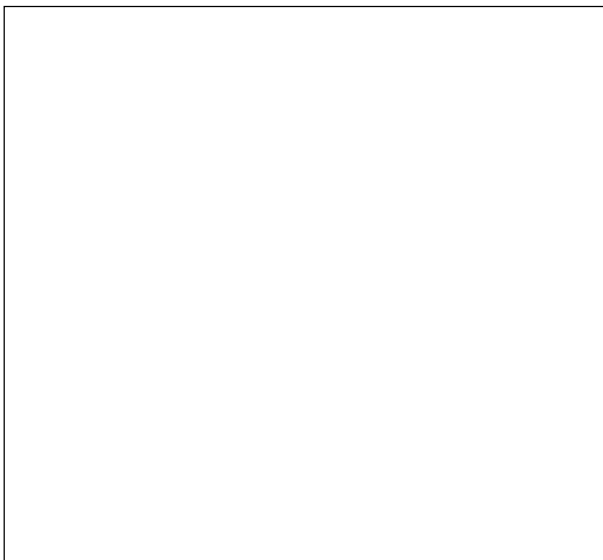
Upward Ratio: 0%

Central Intensity: 4973.75 cd

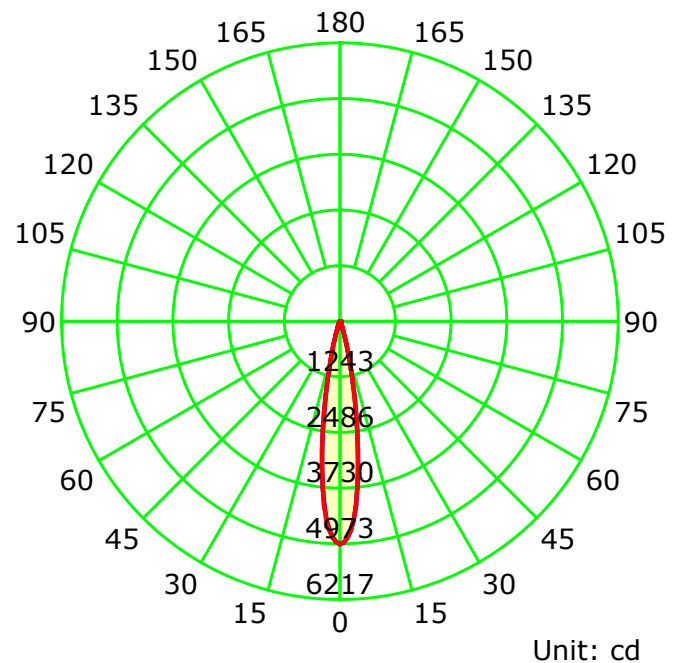
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.31

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

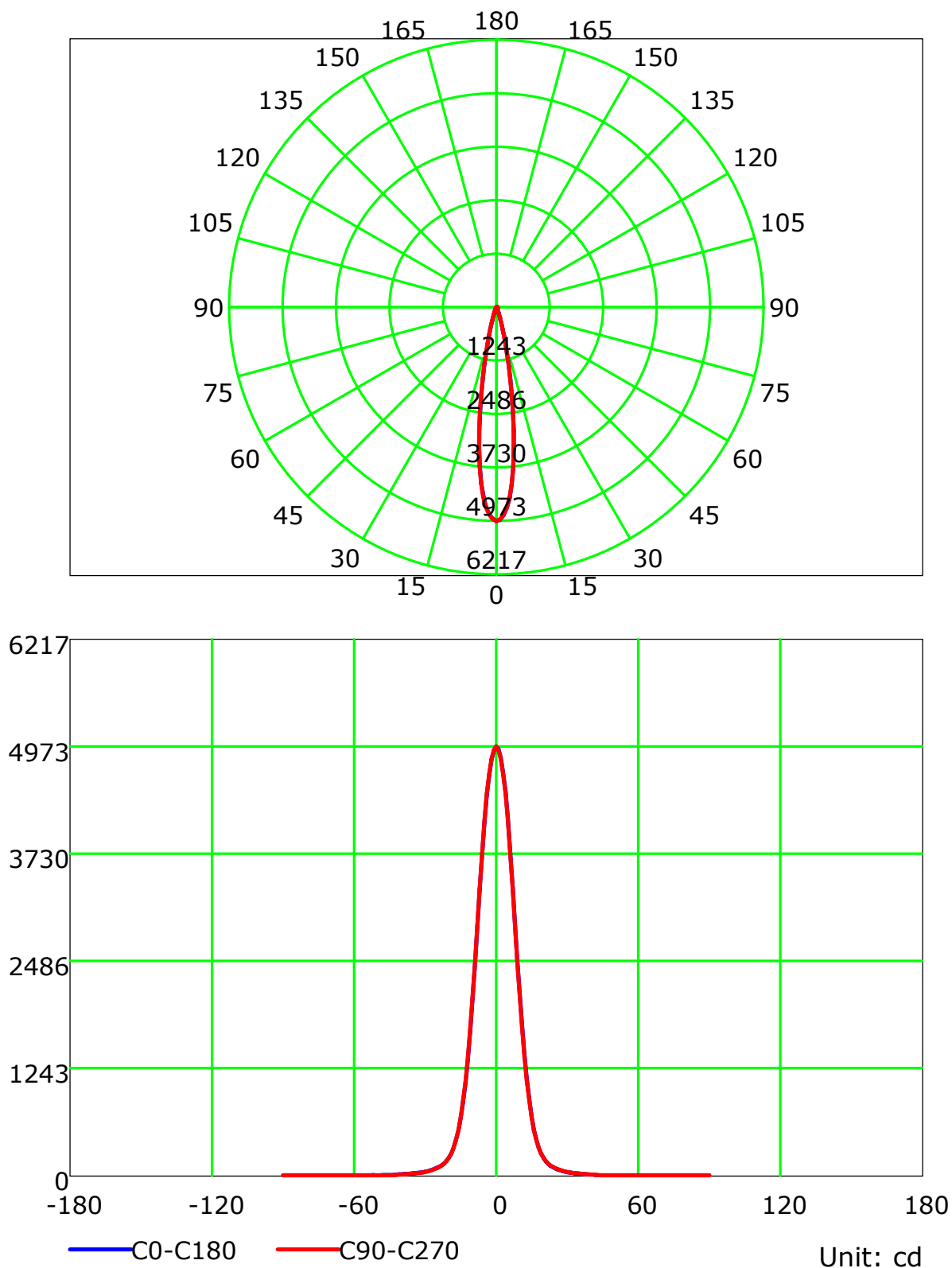
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

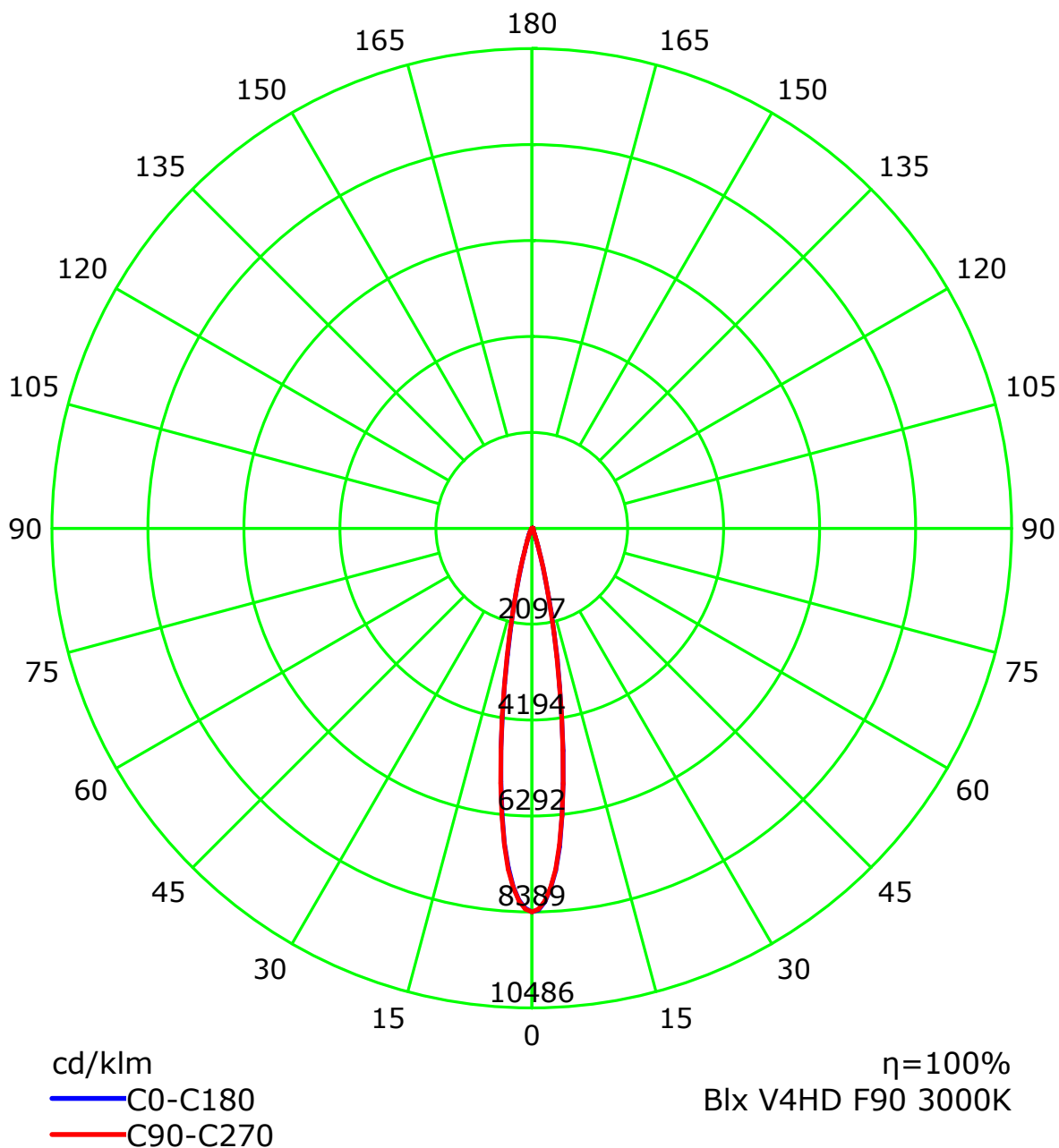
Luminous Intensity Distribution Curve



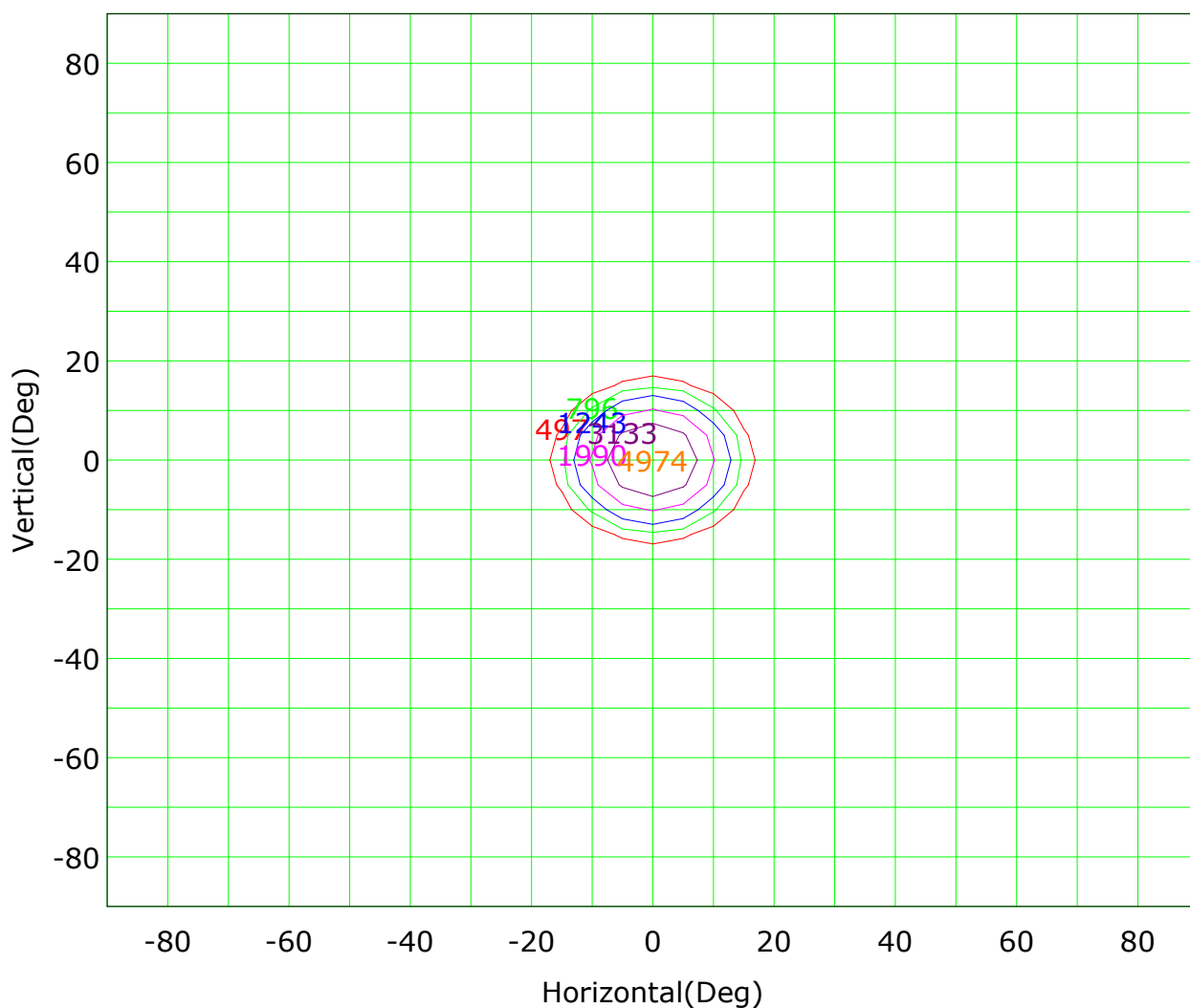
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 4974 cd

(10%): 497 cd	(16%): 796 cd
(25%): 1243 cd	(40%): 1990 cd
(63%): 3133 cd	(100%): 4974 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

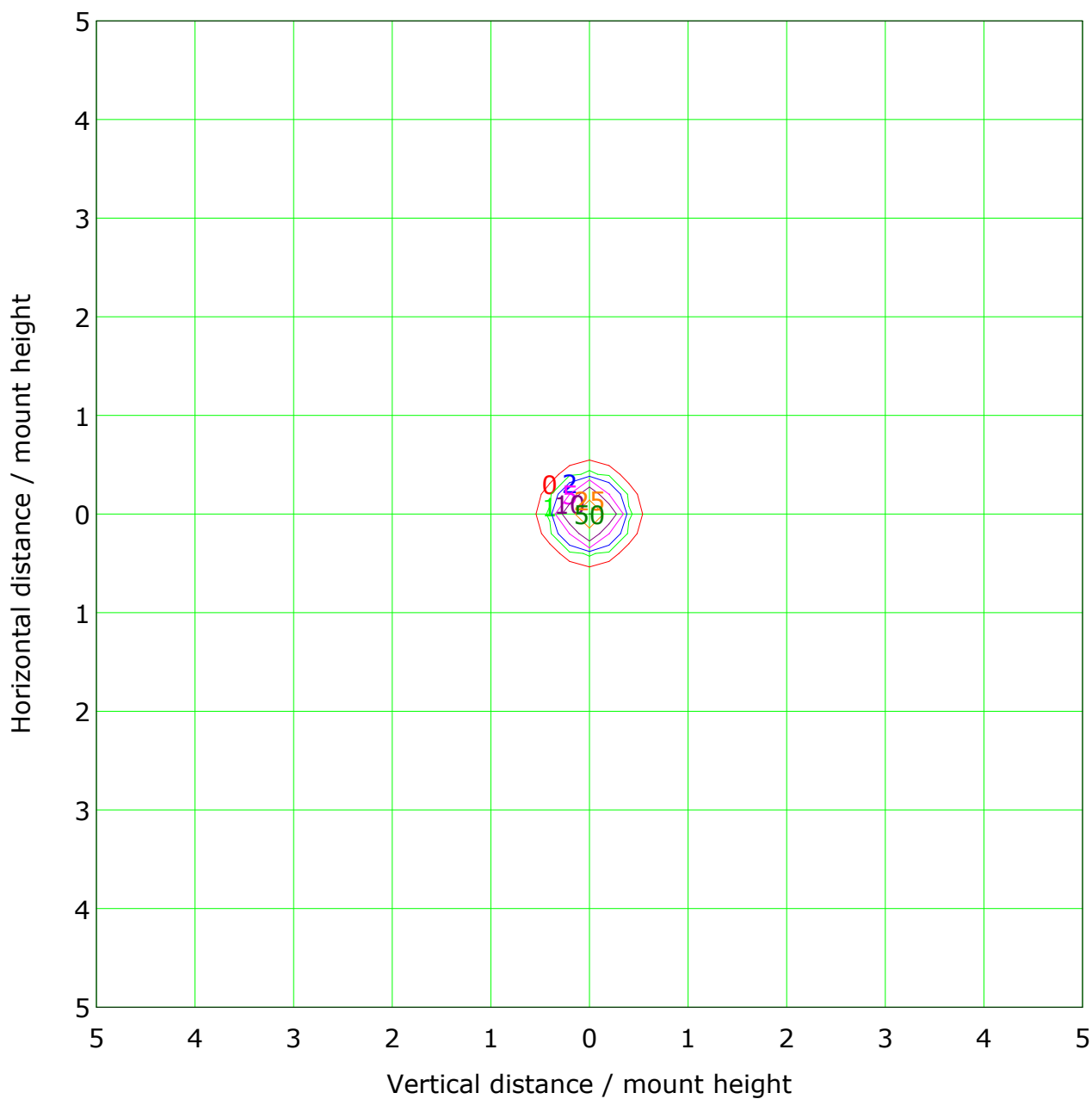
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



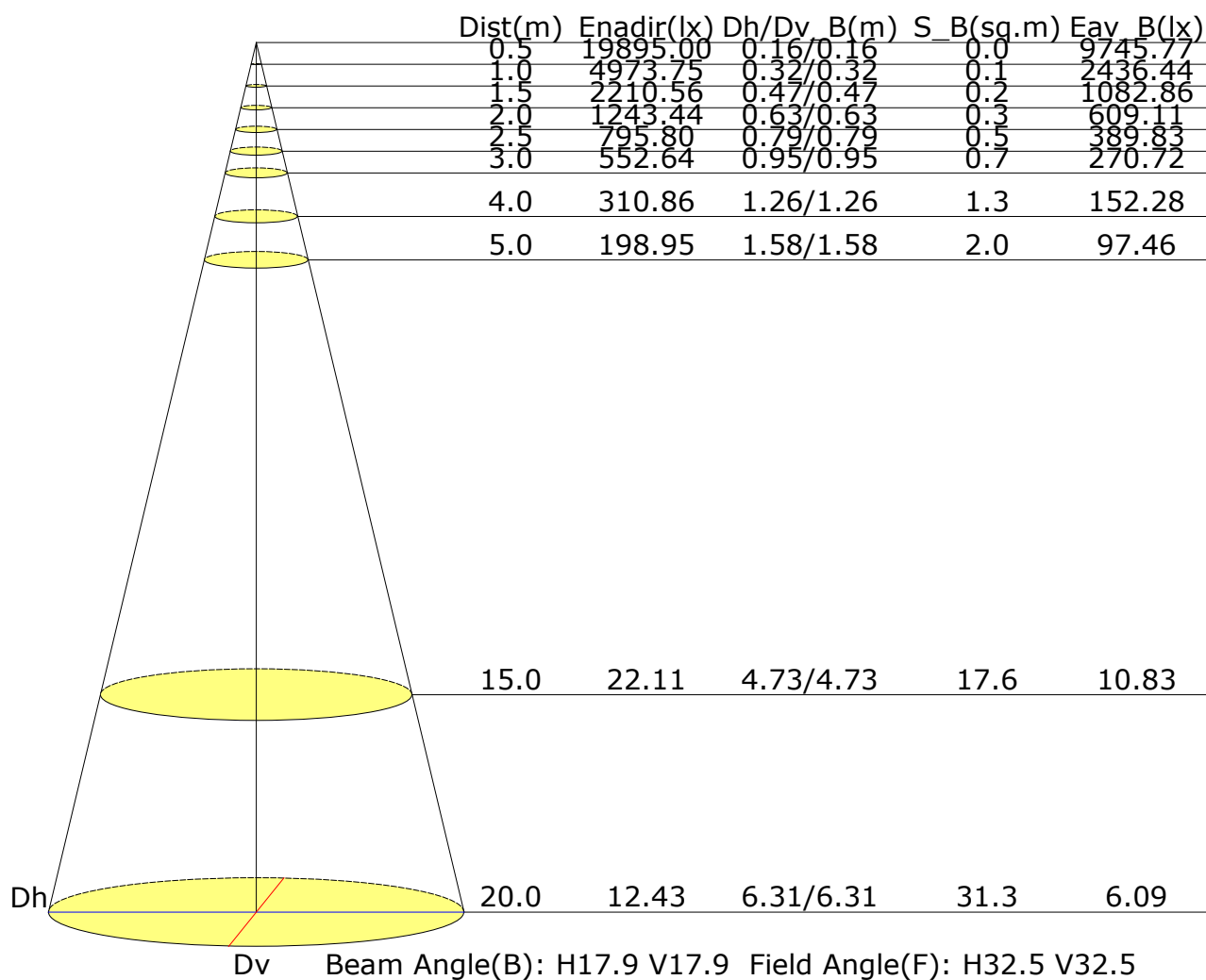
Mounting Height: 10.0m Max Lux(100%): 49.7 lx

— (1%): 0.5 lx	— (2%): 1.0 lx
— (5%): 2.5 lx	— (10%): 5.0 lx
— (20%): 9.9 lx	— (50%): 24.9 lx
— (100%): 49.7 lx	

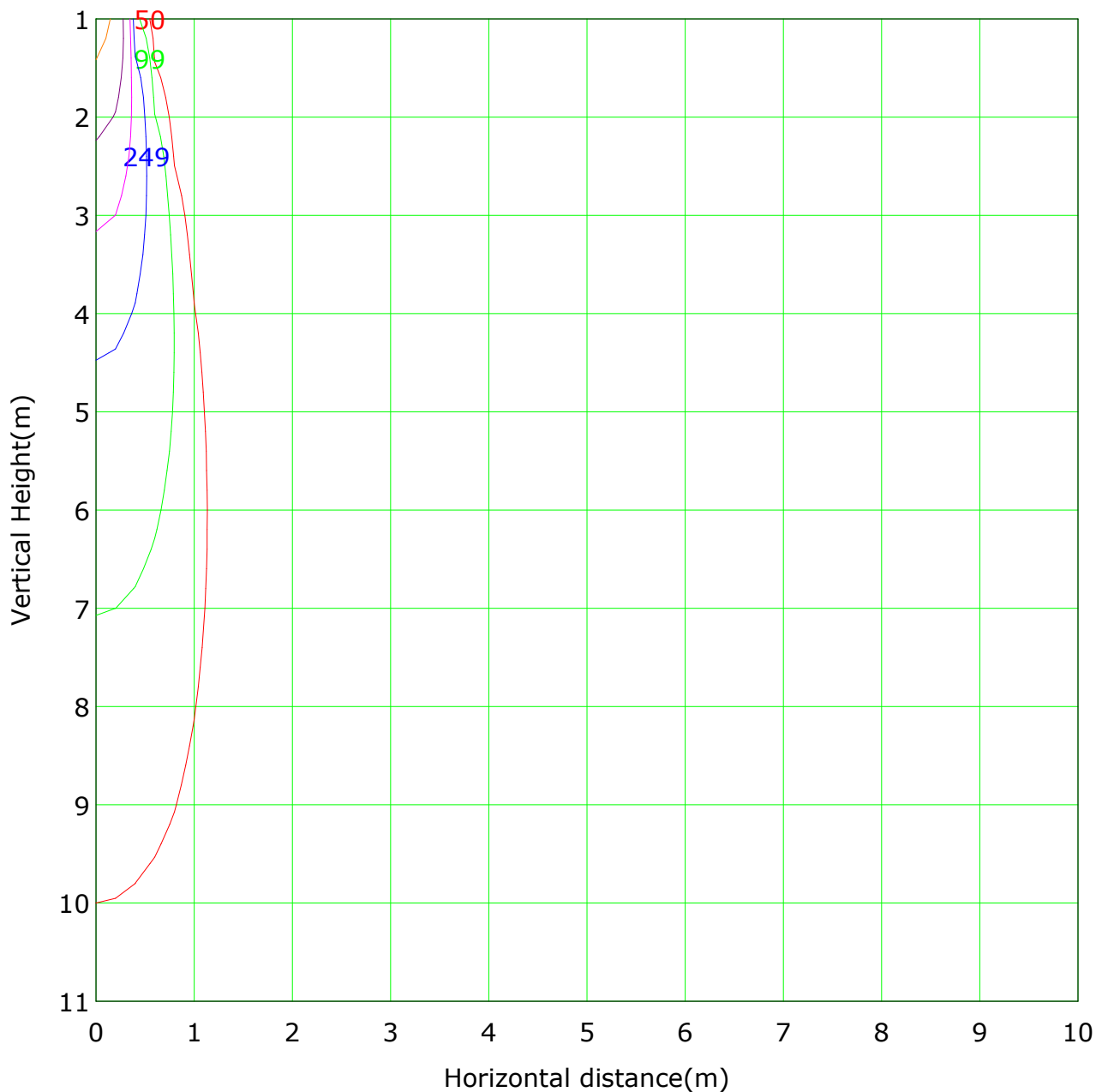
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



Vertical IsoLux Plot



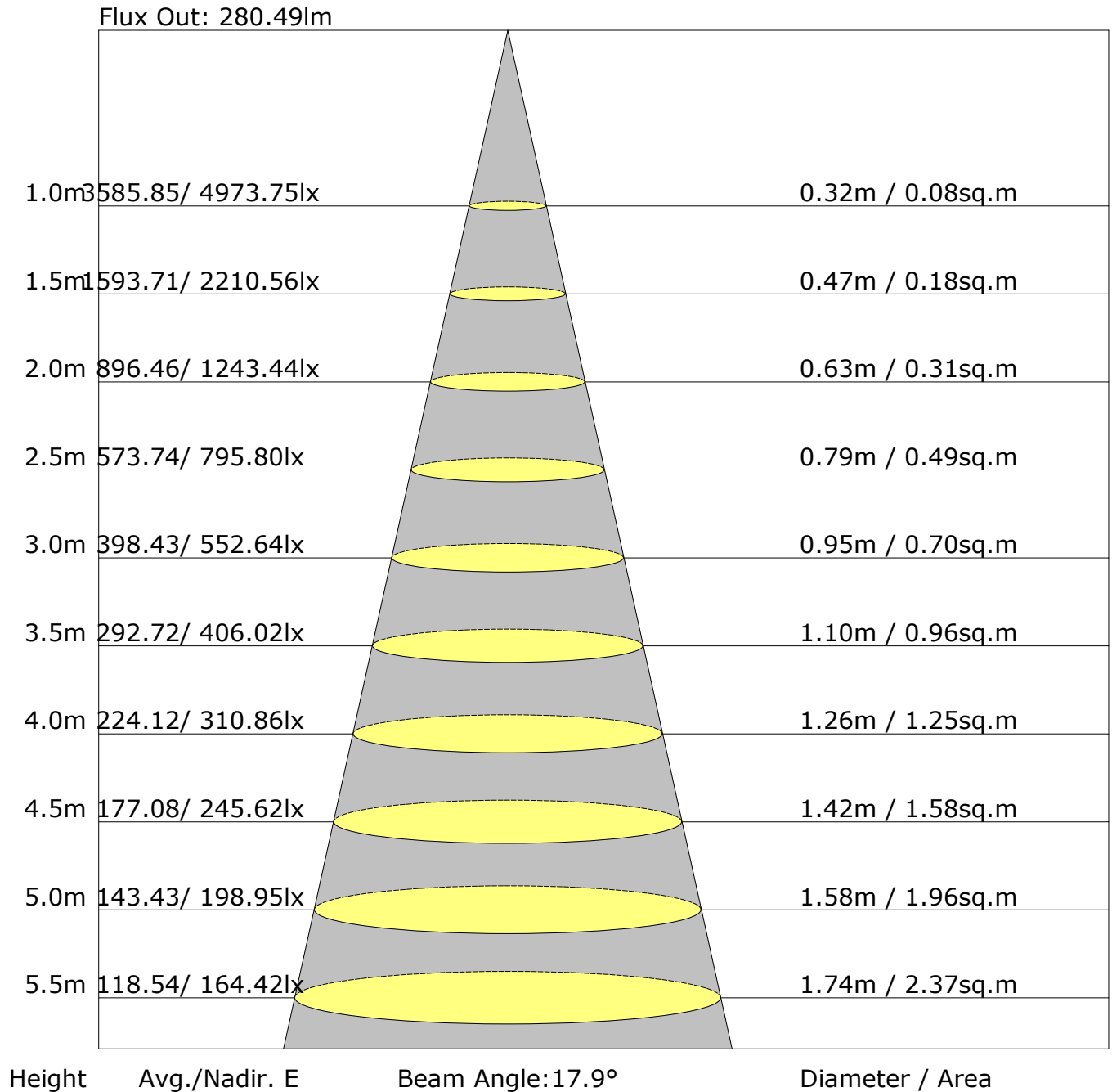
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4973.8 lx
— (1%): 49.7 lx — (2%): 99.5 lx
— (5%): 248.7 lx — (10%): 497.4 lx
— (20%): 994.8 lx — (50%): 2486.9 lx
— (100%): 4973.8 lx

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



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	5.0	5.5	5.2	5.7	5.8	5.6	6.1	5.8	6.3	6.5
3H	4.8	5.3	5.1	5.5	5.8	5.5	5.9	5.7	6.2	6.4
4H	4.8	5.2	5.1	5.5	5.7	5.4	5.8	5.7	6.1	6.3
6H	4.7	5.1	5.0	5.4	5.7	5.3	5.7	5.6	6.0	6.3
8H	4.6	5.0	5.0	5.3	5.6	5.5	5.9	5.8	6.2	6.5
12H	4.6	5.0	4.9	5.3	5.6	5.4	5.8	5.8	6.1	6.4
X=4H Y=2H	4.8	5.2	5.1	5.5	5.7	5.4	5.8	5.7	6.1	6.3
3H	4.6	5.0	4.9	5.3	5.6	5.2	5.6	5.6	5.9	6.2
4H	4.5	4.9	4.9	5.2	5.5	5.1	5.5	5.5	5.8	6.2
6H	4.4	4.7	4.8	5.1	5.5	5.1	5.4	5.5	5.7	6.1
8H	4.4	4.7	4.8	5.1	5.5	5.4	5.7	5.8	6.0	6.4
12H	4.3	4.6	4.8	5.0	5.4	5.3	5.6	5.7	6.0	6.4
X=8H Y=4H	4.4	4.7	4.8	5.0	5.4	5.0	5.3	5.4	5.7	6.1
6H	4.3	4.5	4.7	4.9	5.4	4.9	5.1	5.4	5.6	6.0
8H	4.3	4.5	4.7	4.9	5.4	5.4	5.6	5.8	6.0	6.5
12H	4.2	4.4	4.7	4.8	5.3	5.3	5.5	5.8	6.0	6.5
X=12H Y=4H	4.3	4.6	4.8	5.0	5.4	5.0	5.2	5.4	5.6	6.0
6H	4.3	4.5	4.7	4.9	5.4	4.9	5.1	5.4	5.6	6.0
8H	4.2	4.4	4.7	4.9	5.4	5.4	5.5	5.8	6.0	6.5
Variations with the observer position at spacings:										
S=1.0H	+5.5/-15.5					+5.3/-15.7				
S=1.5H	+8.3/-18.3					+8.1/-21.1				
S=2.0H	+10.3/-21.5					+10.1/-24.0				

Calculate in accordance with CIE Pub.117. The table is revised with 593lm ($8\log(F/F_0) = -1.8$).

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: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	296	50.0
	FL (0°-30°)	289	48.7
	FM (30°-60°)	8	1.3
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	296	50.0
	BL (0°-30°)	287	48.4
	BM (30°-60°)	9	1.6
	BH (60°-80°)	0	0.0
	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: 3.010 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	4954.5	4.7	4.7	0.80	0.80
1.0-2.0	4884.8	14.0	18.8	2.37	3.16
2.0-3.0	4748.4	22.7	41.5	3.83	7.00
3.0-4.0	4545.6	30.4	71.9	5.13	12.13
4.0-5.0	4274.2	36.8	108.7	6.20	18.33
5.0-6.0	3930.5	41.3	150.0	6.97	25.30
6.0-7.0	3533.2	43.9	193.9	7.40	32.70
7.0-8.0	3111.0	44.5	238.4	7.51	40.21
8.0-9.0	2684.8	43.5	281.9	7.34	47.55
9.0-10.0	2269.0	41.1	323.0	6.93	54.48
10.0-11.0	1883.4	37.6	360.6	6.35	60.82
11.0-12.0	1539.7	33.7	394.3	5.68	66.50
12.0-13.0	1240.4	29.4	423.7	4.97	71.47
13.0-14.0	986.8	25.3	449.0	4.26	75.73
14.0-15.0	775.3	21.3	470.3	3.59	79.32
15.0-16.0	603.8	17.7	488.0	2.98	82.30
16.0-17.0	469.6	14.6	502.6	2.47	84.77
17.0-18.0	367.1	12.1	514.7	2.04	86.81
18.0-19.0	289.1	10.1	524.7	1.70	88.51
19.0-20.0	229.9	8.4	533.2	1.42	89.93
20.0-21.0	185.4	7.1	540.3	1.20	91.13
21.0-22.0	152.3	6.1	546.4	1.03	92.16
22.0-23.0	126.6	5.3	551.7	0.90	93.06
23.0-24.0	106.7	4.7	556.4	0.79	93.85
24.0-25.0	91.2	4.1	560.5	0.70	94.55
25.0-26.0	79.2	3.7	564.3	0.63	95.18
26.0-27.0	69.0	3.4	567.6	0.57	95.75
27.0-28.0	59.2	3.0	570.6	0.51	96.25
28.0-29.0	50.5	2.6	573.3	0.45	96.70
29.0-30.0	43.3	2.3	575.6	0.39	97.09
30.0-31.0	37.7	2.1	577.7	0.35	97.45
31.0-32.0	33.5	1.9	579.6	0.32	97.77
32.0-33.0	29.4	1.7	581.4	0.29	98.06
33.0-34.0	26.0	1.6	582.9	0.27	98.33
34.0-35.0	24.1	1.5	584.4	0.25	98.58
35.0-36.0	21.1	1.3	585.8	0.23	98.81

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	17.7	1.2	586.9	0.19	99.00
37.0-38.0	15.1	1.0	588.0	0.17	99.17
38.0-39.0	13.2	0.9	588.9	0.15	99.32
39.0-40.0	12.1	0.8	589.7	0.14	99.47
40.0-41.0	10.9	0.8	590.5	0.13	99.60
41.0-42.0	8.7	0.6	591.1	0.11	99.70
42.0-43.0	5.7	0.4	591.5	0.07	99.77
43.0-44.0	3.4	0.3	591.8	0.04	99.82
44.0-45.0	2.3	0.2	592.0	0.03	99.85
45.0-46.0	2.3	0.2	592.1	0.03	99.88
46.0-47.0	1.9	0.1	592.3	0.03	99.90
47.0-48.0	1.5	0.1	592.4	0.02	99.92
48.0-49.0	1.1	0.1	592.5	0.02	99.94
49.0-50.0	0.8	0.1	592.6	0.01	99.95
50.0-51.0	0.8	0.1	592.6	0.01	99.96
51.0-52.0	1.1	0.1	592.7	0.02	99.98
52.0-53.0	0.8	0.1	592.8	0.01	99.99
53.0-54.0	0.0	0.0	592.8	0.00	99.99
54.0-55.0	0.0	0.0	592.8	0.00	99.99
55.0-56.0	0.0	0.0	592.8	0.00	99.99
56.0-57.0	0.0	0.0	592.8	0.00	99.99
57.0-58.0	0.0	0.0	592.8	0.00	99.99
58.0-59.0	0.0	0.0	592.8	0.00	99.99
59.0-60.0	0.0	0.0	592.8	0.00	99.99
60.0-61.0	0.0	0.0	592.8	0.00	99.99
61.0-62.0	0.0	0.0	592.8	0.00	99.99
62.0-63.0	0.0	0.0	592.8	0.00	99.99
63.0-64.0	0.0	0.0	592.8	0.00	99.99
64.0-65.0	0.0	0.0	592.8	0.00	99.99
65.0-66.0	0.0	0.0	592.8	0.00	99.99
66.0-67.0	0.0	0.0	592.8	0.00	99.99
67.0-68.0	0.0	0.0	592.8	0.00	99.99
68.0-69.0	0.0	0.0	592.8	0.00	99.99
69.0-70.0	0.0	0.0	592.8	0.00	99.99
70.0-71.0	0.0	0.0	592.8	0.00	99.99
71.0-72.0	0.0	0.0	592.8	0.00	99.99

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:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	4973.8	4973.8								
G1.0	4945.1	4925.5								
G2.0	4844.1	4824.5								
G3.0	4673.7	4651.1								
G4.0	4449.1	4408.4								
G5.0	4143.0	4096.3								
G6.0	3754.1	3728.4								
G7.0	3342.5	3307.8								
G8.0	2909.8	2884.1								
G9.0	2490.6	2454.5								
G10.0	2092.6	2038.3								
G11.0	1732.3	1670.5								
G12.0	1405.1	1350.9								
G13.0	1129.2	1076.5								
G14.0	886.5	854.8								
G15.0	687.5	672.4								
G16.0	530.7	524.7								
G17.0	410.1	413.1								
G18.0	321.1	324.1								
G19.0	254.8	256.3								
G20.0	203.5	205.0								
G21.0	164.3	168.9								
G22.0	134.2	141.7								
G23.0	111.6	119.1								
G24.0	95.0	101.0								
G25.0	79.9	88.9								
G26.0	70.9	76.9								
G27.0	60.3	67.8								
G28.0	51.3	57.3								
G29.0	45.2	48.2								
G30.0	37.7	42.2								
G31.0	33.2	37.7								
G32.0	30.1	33.2								
G33.0	24.1	30.1								
G34.0	22.6	27.1								
G35.0	21.1	25.6								
G36.0	15.1	22.6								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	15.1	18.1								
G38.0	12.1	15.1								
G39.0	10.6	15.1								
G40.0	10.6	12.1								
G41.0	9.1	12.1								
G42.0	3.0	10.6								
G43.0	1.5	7.5								
G44.0	0.0	4.5								
G45.0	0.0	4.5								
G46.0	0.0	4.5								
G47.0	0.0	3.0								
G48.0	0.0	3.0								
G49.0	0.0	1.5								
G50.0	0.0	1.5								
G51.0	0.0	1.5								
G52.0	0.0	3.0								
G53.0	0.0	0.0								
G54.0	0.0	0.0								
G55.0	0.0	0.0								
G56.0	0.0	0.0								
G57.0	0.0	0.0								
G58.0	0.0	0.0								
G59.0	0.0	0.0								
G60.0	0.0	0.0								
G61.0	0.0	0.0								
G62.0	0.0	0.0								
G63.0	0.0	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	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

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:

Unit: cd

Inspector: