

Report No.:

Test Time: 2026-09-10 17:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 51.07533 50D

Luminous Width (mm): -67

Current: 0.144 A

Power Factor: 0.947

Luminous Length (mm): -67

Voltage: 233.8 V

Power: 31.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3442.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H56.1

Vertical Diffuse Angle(50%): V56.1

Luminaire Efficacy Rating (LER): 107.98

Max. Intensity: 4414.26 cd

S/MH(C0/C180): 0.86

Total Rated Lamp Lumens: 3442.9 lm

Efficiency: 100%

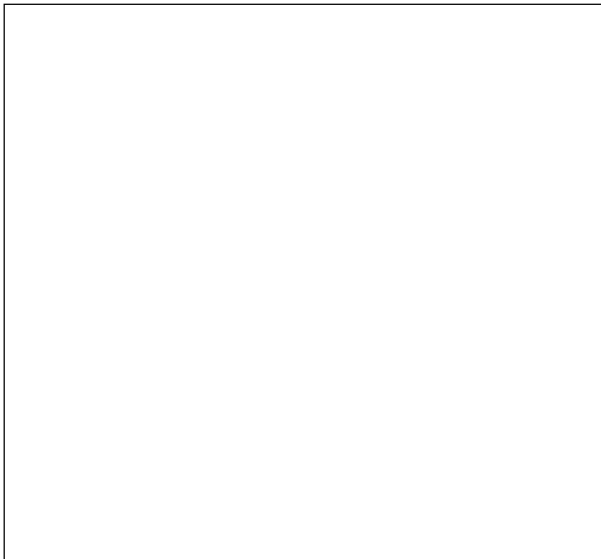
Upward Ratio: 0%

Central Intensity: 4412.01 cd

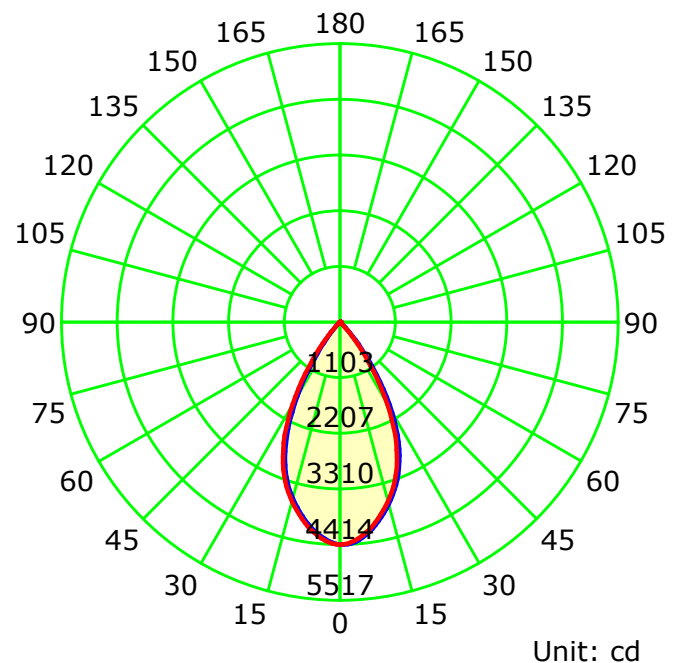
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.86

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

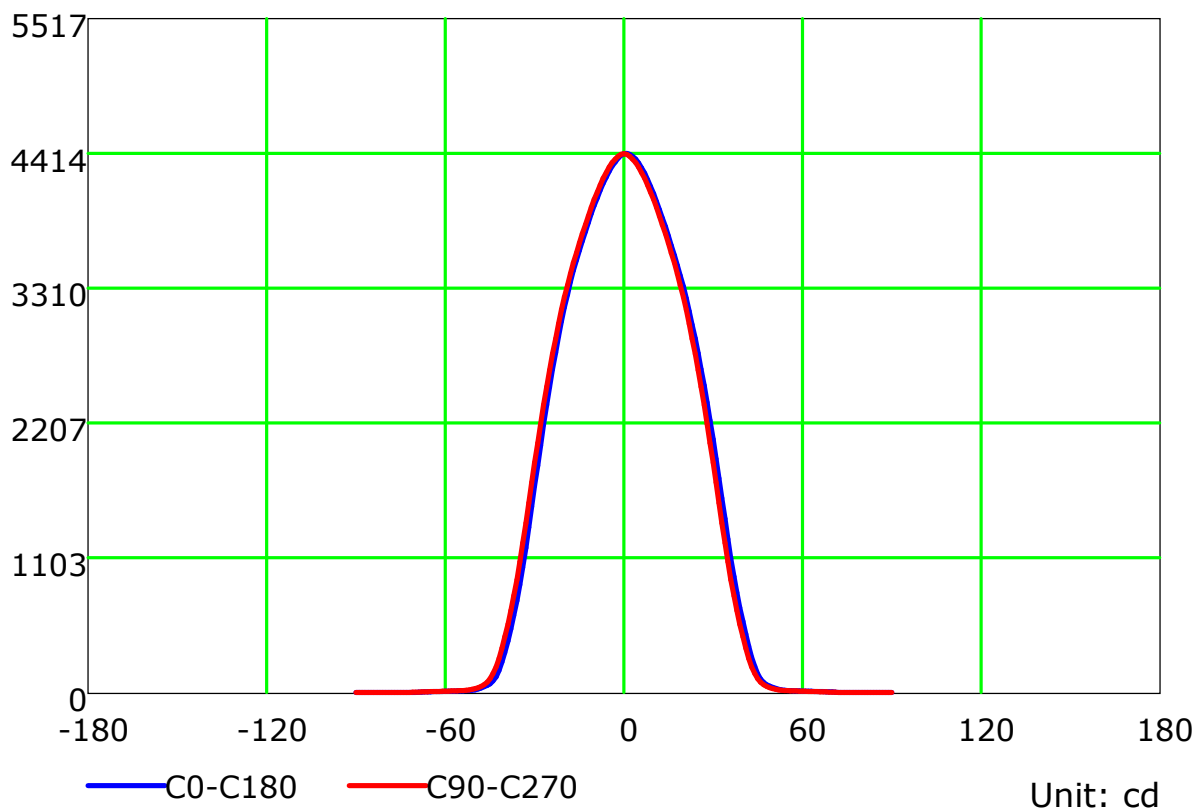
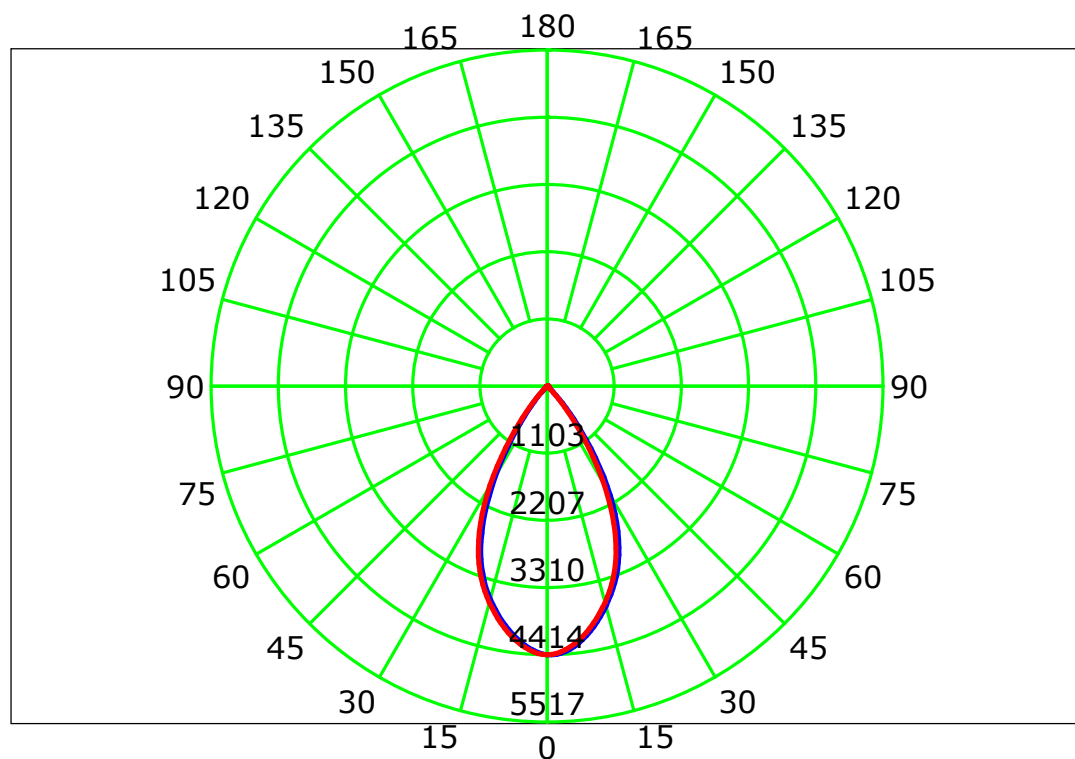
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

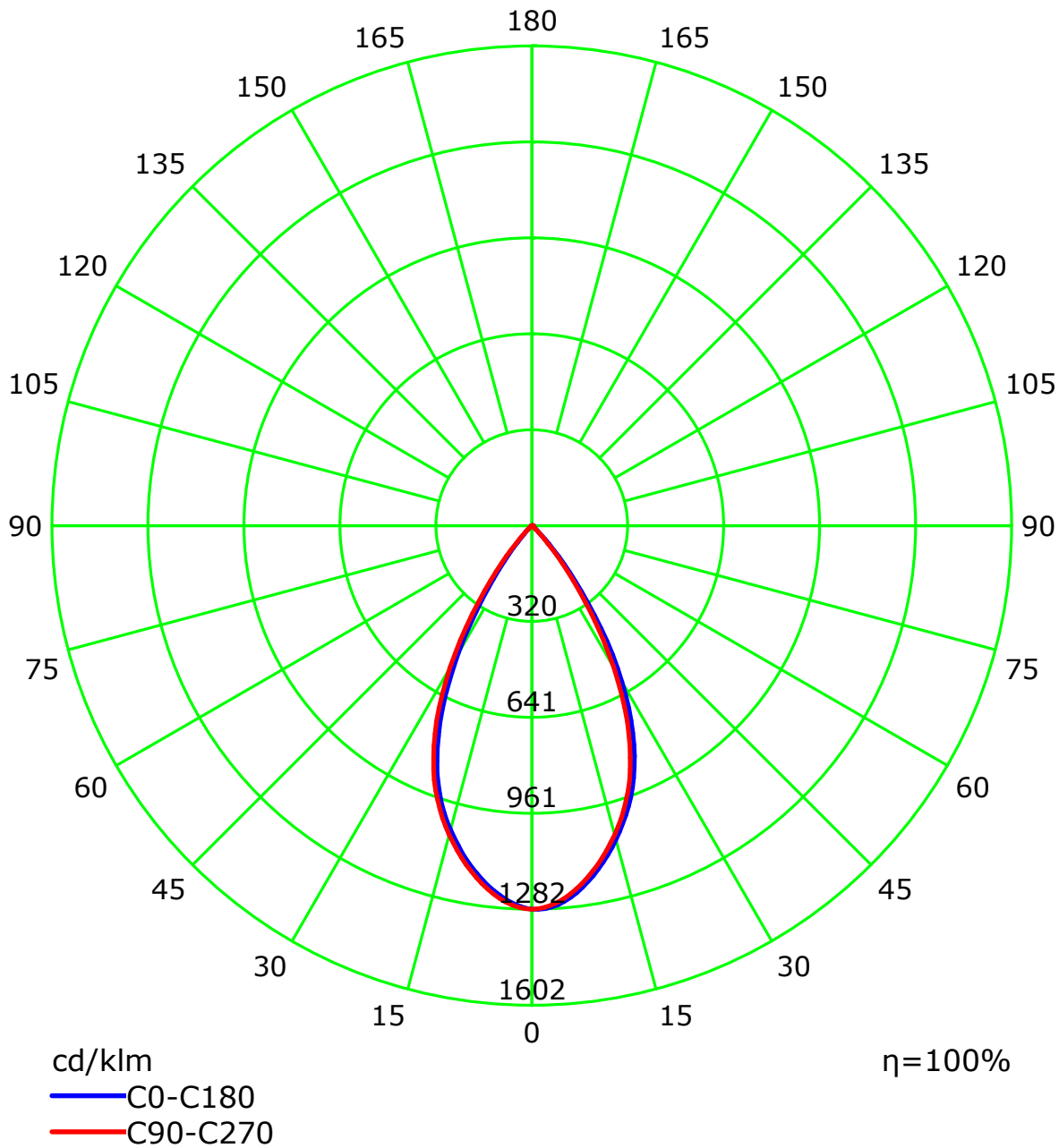
Luminous Intensity Distribution Curve



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:

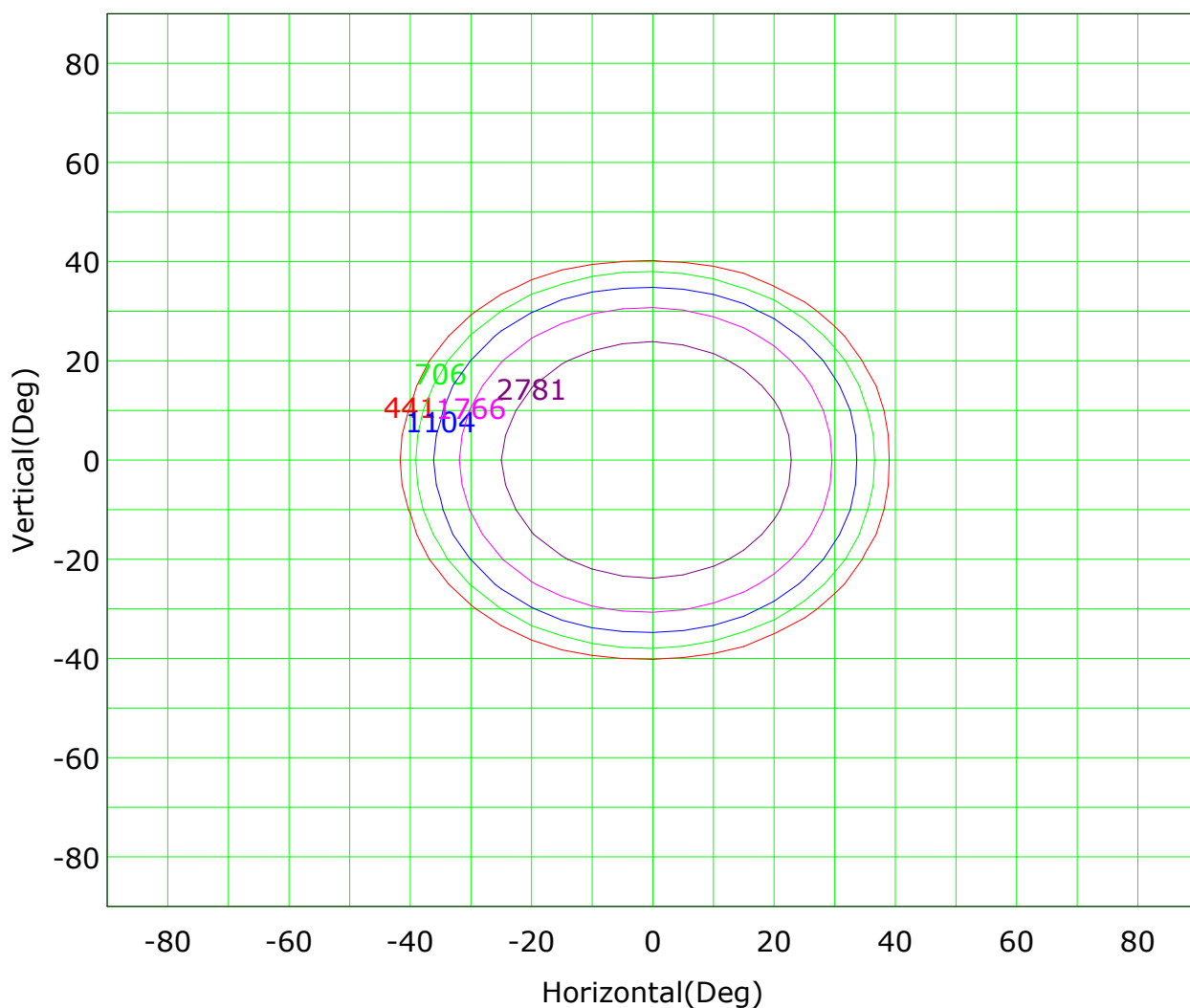
Luminous Intensity Distribution Curve(cd/klm)



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:

Isocandela (rectangle)



Imax (100%): 4414 cd

(10%): 441 cd	(16%): 706 cd
(25%): 1104 cd	(40%): 1766 cd
(63%): 2781 cd	(100%): 4414 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

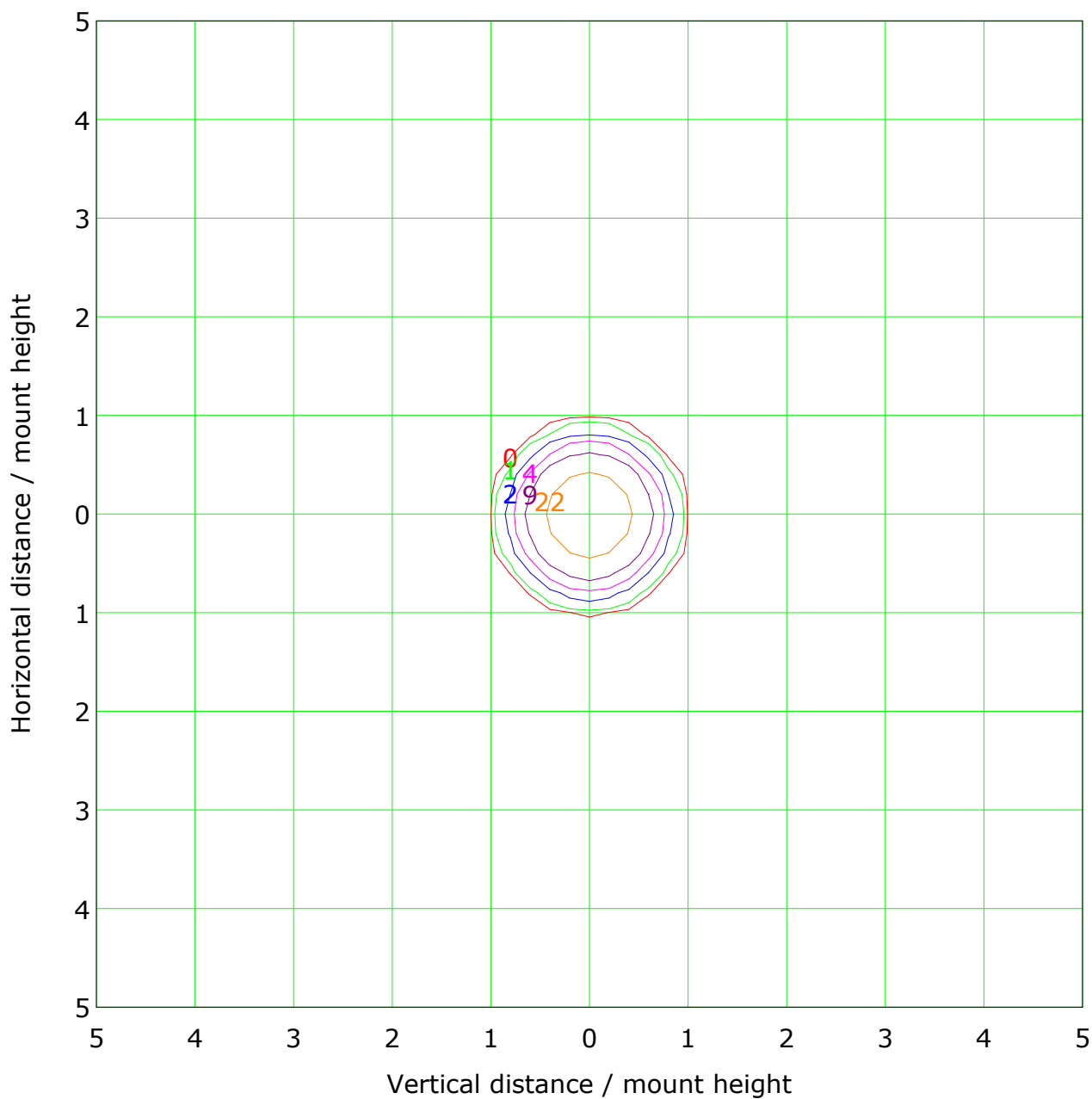
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 44.1 lx

(1%): 0.4 lx	(2%): 0.9 lx
(5%): 2.2 lx	(10%): 4.4 lx
(20%): 8.8 lx	(50%): 22.1 lx
(100%): 44.1 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

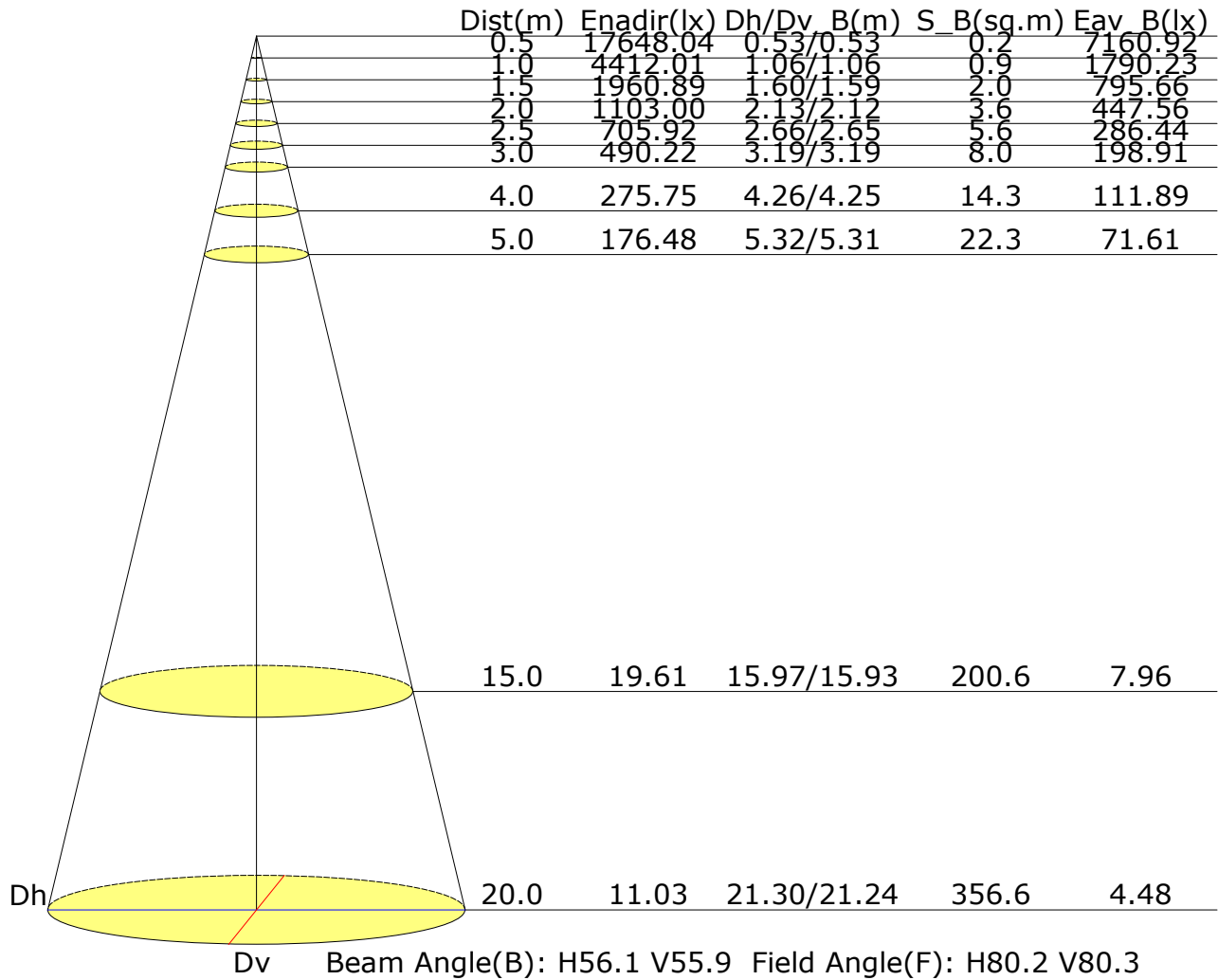
Test Device: CHL-6E

Distance: 3.010 m

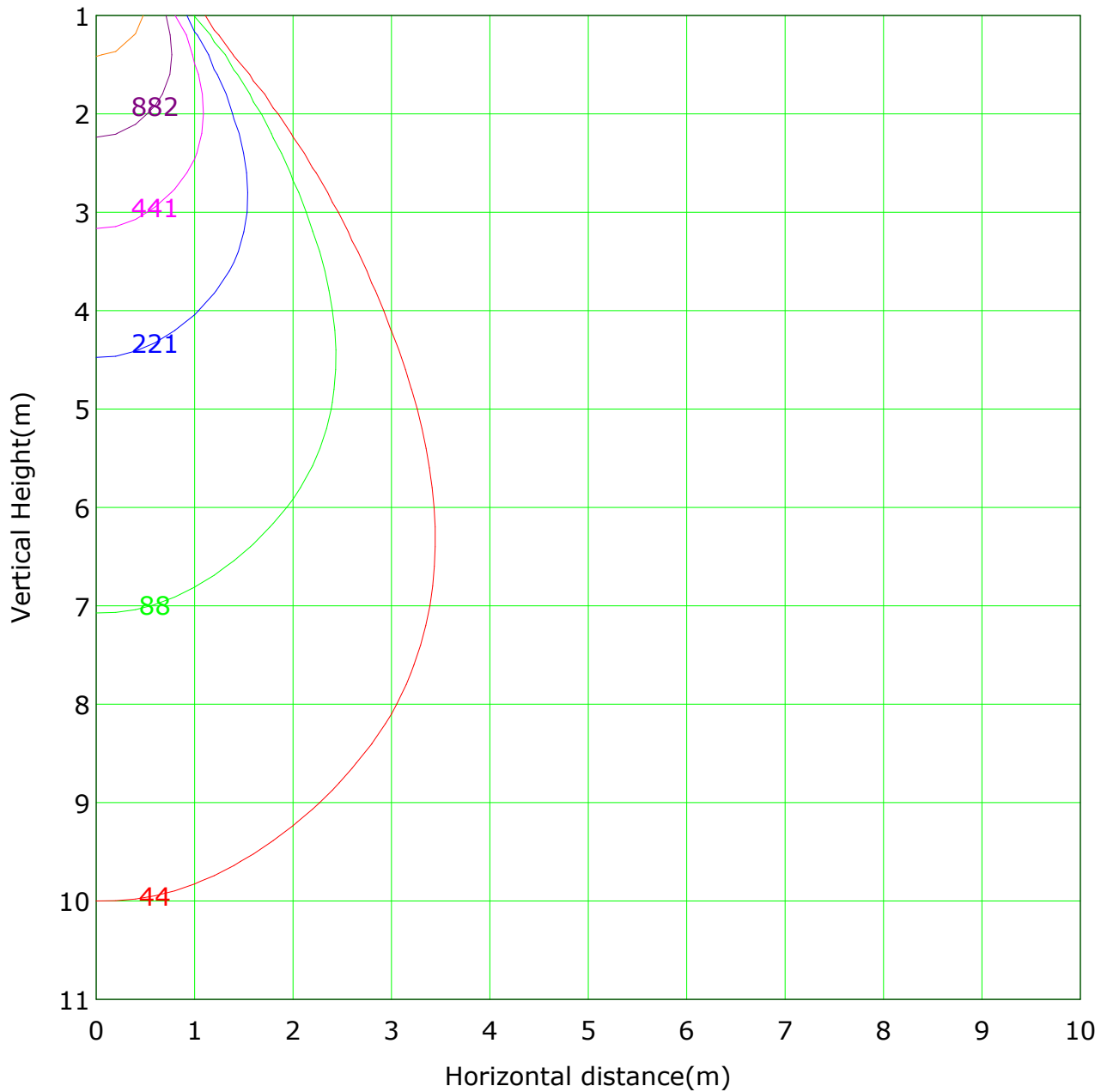
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



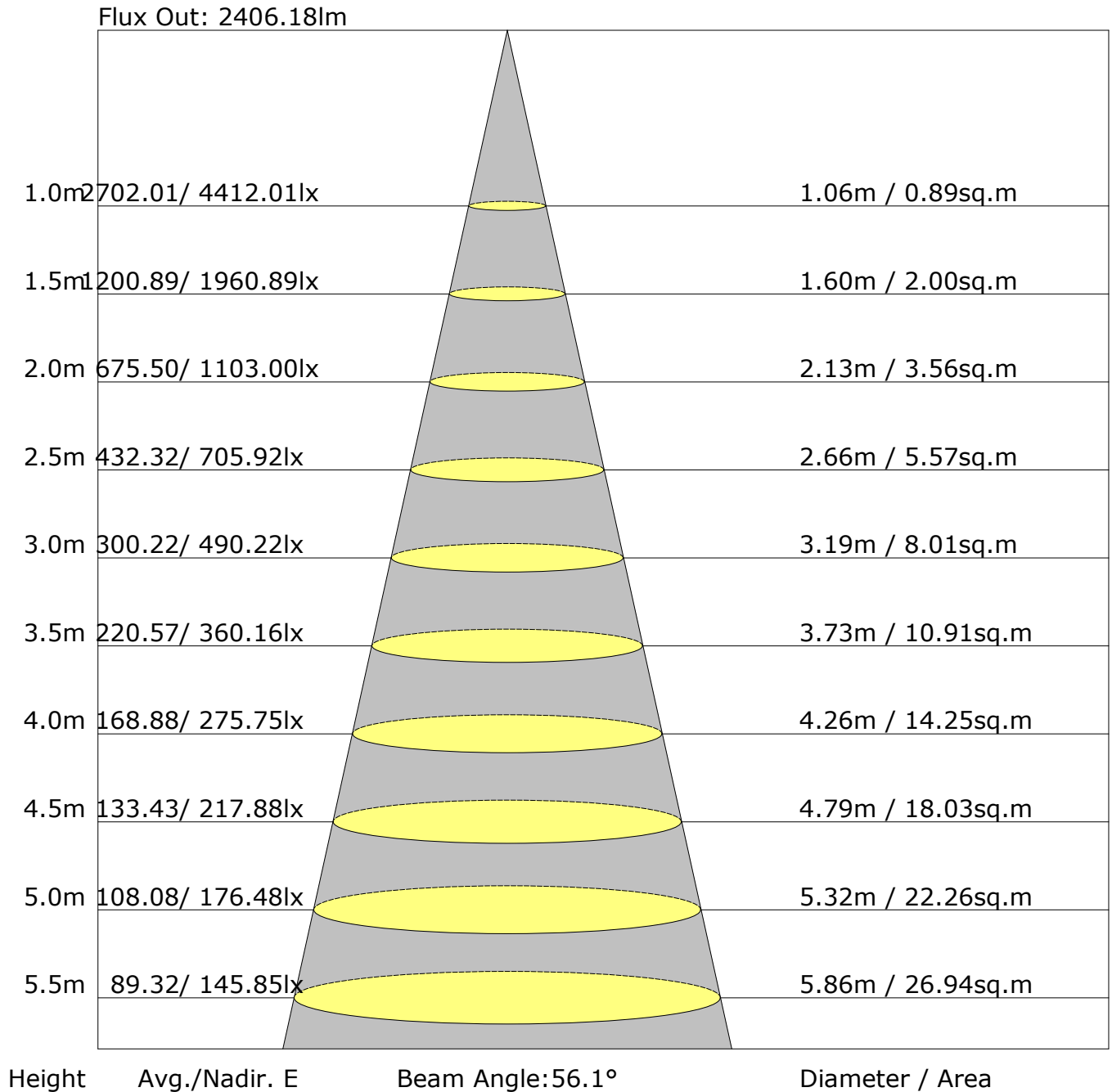
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4412.0 lx
— (1%): 44.1 lx — (2%): 88.2 lx
— (5%): 220.6 lx — (10%): 441.2 lx
— (20%): 882.4 lx — (50%): 2206.0 lx
— (100%): 4412.0 lx

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: 3.010 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

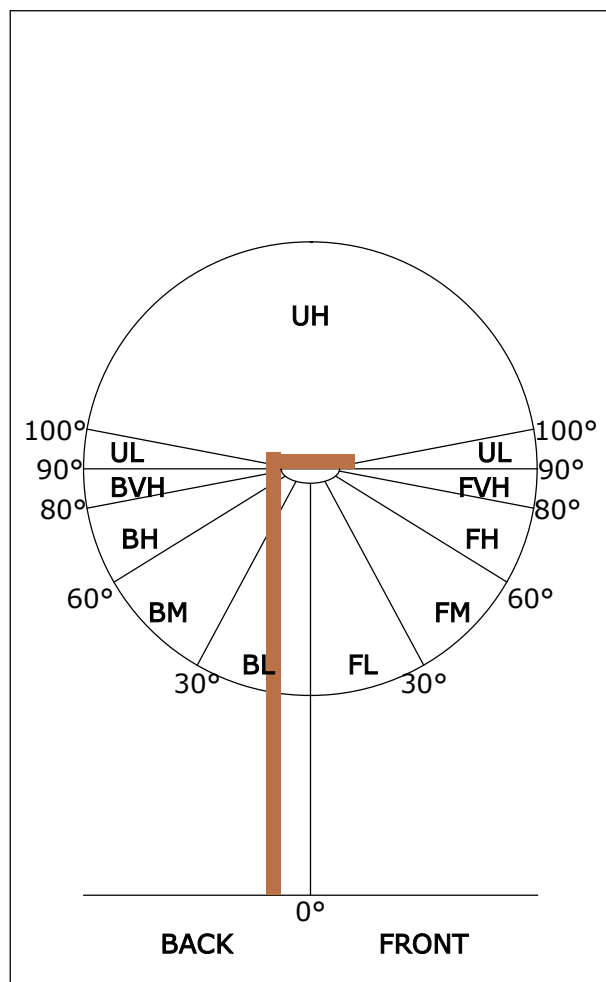
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	24.4	25.2	24.6	25.4	25.6	23.7	24.5	24.0	24.7	24.9
3H	24.2	25.0	24.5	25.2	25.5	23.6	24.3	23.9	24.6	24.8
4H	24.2	24.9	24.5	25.1	25.4	23.5	24.2	23.8	24.5	24.7
6H	24.1	24.7	24.4	25.0	25.3	23.4	24.1	23.8	24.4	24.6
8H	24.0	24.7	24.4	25.0	25.3	23.4	24.0	23.7	24.3	24.6
12H	24.0	24.6	24.4	24.9	25.2	23.3	23.9	23.7	24.2	24.6
X=4H Y=2H	24.2	24.9	24.5	25.1	25.4	23.5	24.2	23.8	24.5	24.7
3H	24.0	24.6	24.4	24.9	25.2	23.4	23.9	23.7	24.3	24.6
4H	23.9	24.5	24.3	24.8	25.2	23.3	23.8	23.7	24.1	24.5
6H	23.8	24.3	24.3	24.7	25.1	23.2	23.7	23.6	24.0	24.4
8H	23.8	24.2	24.2	24.6	25.0	23.1	23.6	23.6	24.0	24.4
12H	23.8	24.1	24.2	24.6	25.0	23.1	23.5	23.5	23.9	24.3
X=8H Y=4H	23.8	24.2	24.2	24.6	25.0	23.1	23.6	23.6	24.0	24.4
6H	23.7	24.1	24.2	24.5	24.9	23.1	23.4	23.5	23.8	24.3
8H	23.7	24.0	24.1	24.4	24.9	23.0	23.3	23.5	23.8	24.2
12H	23.6	23.9	24.1	24.4	24.9	23.0	23.2	23.5	23.7	24.2
X=12H Y=4H	23.8	24.1	24.2	24.5	25.0	23.1	23.5	23.5	23.9	24.3
6H	23.7	24.0	24.1	24.4	24.9	23.0	23.3	23.5	23.8	24.2
8H	23.6	23.9	24.1	24.4	24.9	23.0	23.2	23.5	23.7	24.2
Variations with the observer position at spacings:										
S=1.0H	+5.3/-15.3					+5.3/-15.2				
S=1.5H	+8.1/-16.2					+8.1/-16.0				
S=2.0H	+10.1/-16.9					+10.1/-17.2				

Calculate in accordance with CIE Pub.117. The table is revised with 3443lm ($8\log(F/F_0) = 4.3$).

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	1781	51.7
FL (0°-30°)	1332	38.7
FM (30°-60°)	444	12.9
FH (60°-80°)	5	0.2
FVH (80°-90°)	0	0.0
BACK LIGHT	1662	48.3
BL (0°-30°)	1288	37.4
BM (30°-60°)	369	10.7
BH (60°-80°)	4	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: 3.010 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	4409.6	4.2	4.2	0.12	0.12
1.0-2.0	4399.6	12.6	16.8	0.37	0.49
2.0-3.0	4380.5	21.0	37.8	0.61	1.10
3.0-4.0	4354.2	29.1	67.0	0.85	1.94
4.0-5.0	4320.9	37.2	104.1	1.08	3.02
5.0-6.0	4280.8	45.0	149.1	1.31	4.33
6.0-7.0	4235.1	52.6	201.7	1.53	5.86
7.0-8.0	4183.9	59.9	261.6	1.74	7.60
8.0-9.0	4127.9	66.9	328.5	1.94	9.54
9.0-10.0	4068.1	73.6	402.1	2.14	11.68
10.0-11.0	4004.3	80.0	482.1	2.32	14.00
11.0-12.0	3937.0	86.1	568.2	2.50	16.50
12.0-13.0	3866.9	91.8	660.0	2.67	19.17
13.0-14.0	3793.7	97.1	757.1	2.82	21.99
14.0-15.0	3718.5	102.1	859.2	2.97	24.96
15.0-16.0	3640.9	106.7	965.9	3.10	28.06
16.0-17.0	3559.6	110.9	1076.8	3.22	31.28
17.0-18.0	3474.4	114.6	1191.3	3.33	34.60
18.0-19.0	3383.8	117.7	1309.1	3.42	38.02
19.0-20.0	3288.1	120.4	1429.5	3.50	41.52
20.0-21.0	3187.4	122.4	1551.9	3.56	45.07
21.0-22.0	3078.1	123.7	1675.6	3.59	48.67
22.0-23.0	2960.0	124.2	1799.8	3.61	52.28
23.0-24.0	2836.6	124.0	1923.8	3.60	55.88
24.0-25.0	2708.2	123.2	2047.0	3.58	59.46
25.0-26.0	2572.8	121.5	2168.4	3.53	62.98
26.0-27.0	2429.2	118.9	2287.3	3.45	66.44
27.0-28.0	2277.8	115.3	2402.6	3.35	69.79
28.0-29.0	2122.3	111.1	2513.7	3.23	73.01
29.0-30.0	1964.2	106.1	2619.8	3.08	76.09
30.0-31.0	1802.1	100.3	2720.1	2.91	79.01
31.0-32.0	1637.2	93.8	2813.9	2.72	81.73
32.0-33.0	1471.4	86.7	2900.6	2.52	84.25
33.0-34.0	1307.0	79.1	2979.7	2.30	86.55
34.0-35.0	1147.7	71.3	3051.0	2.07	88.62
35.0-36.0	997.3	63.5	3114.5	1.84	90.46

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	858.3	56.0	3170.4	1.63	92.09
37.0-38.0	731.5	48.8	3219.3	1.42	93.51
38.0-39.0	615.0	42.0	3261.3	1.22	94.73
39.0-40.0	507.8	35.4	3296.7	1.03	95.75
40.0-41.0	410.1	29.2	3325.9	0.85	96.60
41.0-42.0	321.9	23.4	3349.3	0.68	97.28
42.0-43.0	245.2	18.2	3367.4	0.53	97.81
43.0-44.0	182.4	13.8	3381.2	0.40	98.21
44.0-45.0	134.1	10.3	3391.5	0.30	98.51
45.0-46.0	99.2	7.8	3399.3	0.23	98.73
46.0-47.0	75.0	6.0	3405.3	0.17	98.91
47.0-48.0	58.3	4.7	3410.0	0.14	99.04
48.0-49.0	46.4	3.8	3413.8	0.11	99.16
49.0-50.0	37.0	3.1	3416.9	0.09	99.25
50.0-51.0	29.9	2.5	3419.4	0.07	99.32
51.0-52.0	24.5	2.1	3421.5	0.06	99.38
52.0-53.0	20.4	1.8	3423.3	0.05	99.43
53.0-54.0	18.0	1.6	3424.9	0.05	99.48
54.0-55.0	16.6	1.5	3426.3	0.04	99.52
55.0-56.0	15.5	1.4	3427.7	0.04	99.56
56.0-57.0	14.5	1.3	3429.1	0.04	99.60
57.0-58.0	13.7	1.3	3430.3	0.04	99.64
58.0-59.0	12.7	1.2	3431.5	0.03	99.67
59.0-60.0	12.0	1.1	3432.7	0.03	99.70
60.0-61.0	11.3	1.1	3433.7	0.03	99.74
61.0-62.0	10.7	1.0	3434.8	0.03	99.77
62.0-63.0	10.1	1.0	3435.7	0.03	99.79
63.0-64.0	9.5	0.9	3436.7	0.03	99.82
64.0-65.0	8.8	0.9	3437.6	0.03	99.85
65.0-66.0	8.1	0.8	3438.4	0.02	99.87
66.0-67.0	7.4	0.7	3439.1	0.02	99.89
67.0-68.0	6.6	0.7	3439.8	0.02	99.91
68.0-69.0	5.3	0.5	3440.3	0.02	99.93
69.0-70.0	4.1	0.4	3440.7	0.01	99.94
70.0-71.0	3.1	0.3	3441.1	0.01	99.95
71.0-72.0	2.2	0.2	3441.3	0.01	99.95

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	4412.0	4412.0								
G1.0	4414.3	4400.1								
G2.0	4407.2	4376.9								
G3.0	4392.8	4345.0								
G4.0	4369.4	4309.6								
G5.0	4336.5	4268.0								
G6.0	4296.9	4221.8								
G7.0	4252.1	4169.5								
G8.0	4200.8	4113.1								
G9.0	4145.5	4052.3								
G10.0	4086.1	3988.5								
G11.0	4021.1	3921.5								
G12.0	3955.1	3850.5								
G13.0	3887.0	3774.8								
G14.0	3814.8	3698.4								
G15.0	3739.2	3621.7								
G16.0	3660.4	3542.3								
G17.0	3579.5	3456.2								
G18.0	3498.6	3363.4								
G19.0	3414.8	3258.5								
G20.0	3324.4	3154.6								
G21.0	3227.4	3043.0								
G22.0	3123.1	2918.7								
G23.0	3013.5	2784.6								
G24.0	2900.4	2647.9								
G25.0	2779.7	2504.8								
G26.0	2650.1	2356.8								
G27.0	2514.8	2194.9								
G28.0	2375.5	2025.8								
G29.0	2228.4	1859.6								
G30.0	2074.5	1694.2								
G31.0	1915.8	1524.1								
G32.0	1755.6	1353.2								
G33.0	1591.6	1185.2								
G34.0	1424.7	1026.5								
G35.0	1256.1	883.4								
G36.0	1096.0	753.5								

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	950.8	632.8								
G38.0	818.3	524.1								
G39.0	694.8	422.8								
G40.0	583.7	329.9								
G41.0	477.4	249.2								
G42.0	378.5	182.3								
G43.0	290.2	129.9								
G44.0	214.6	95.0								
G45.0	153.6	73.3								
G46.0	110.5	59.6								
G47.0	81.8	48.2								
G48.0	64.7	38.4								
G49.0	53.2	29.3								
G50.0	43.4	22.4								
G51.0	34.5	19.4								
G52.0	26.4	17.7								
G53.0	21.0	16.5								
G54.0	18.9	15.5								
G55.0	17.6	14.6								
G56.0	16.2	13.5								
G57.0	15.3	12.9								
G58.0	14.4	12.0								
G59.0	13.2	11.3								
G60.0	12.6	10.8								
G61.0	11.9	10.1								
G62.0	11.1	9.6								
G63.0	10.7	9.2								
G64.0	9.8	8.4								
G65.0	9.5	7.5								
G66.0	8.9	6.6								
G67.0	8.3	5.9								
G68.0	7.4	4.8								
G69.0	6.3	2.8								
G70.0	5.7	1.5								
G71.0	4.1	1.2								
G72.0	2.4	1.2								
G73.0	1.6	1.0								

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: 3.010 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: