

Report No.:

Test Time: 2025-08-07 16:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.05013 50D

Luminous Width (mm): -47

Current: 0.027 A

Power Factor: 0.562

Luminous Length (mm): -47

Voltage: 224.8 V

Power: 3.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 301 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H53.2

Vertical Diffuse Angle(50%): V53.2

Luminaire Efficacy Rating (LER): 86.04

Max. Intensity: 327.02 cd

S/MH(C0/C180): 0.81

Total Rated Lamp Lumens: 301.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 327.02 cd

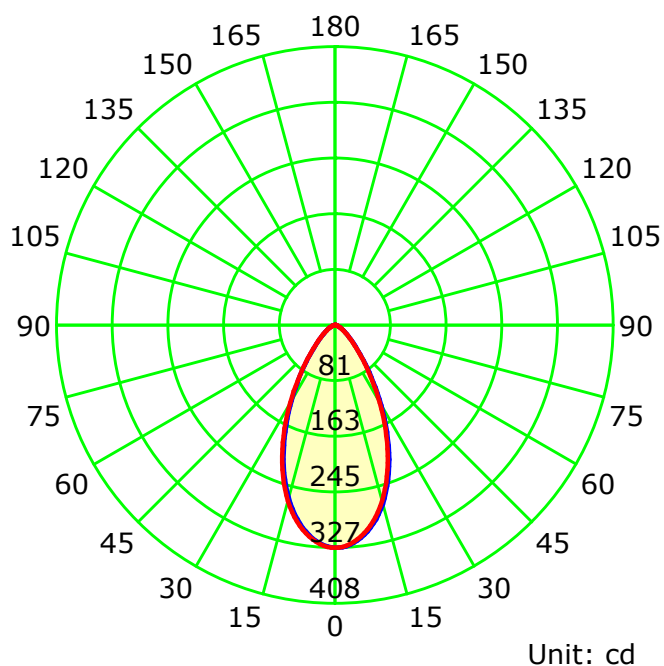
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.81

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

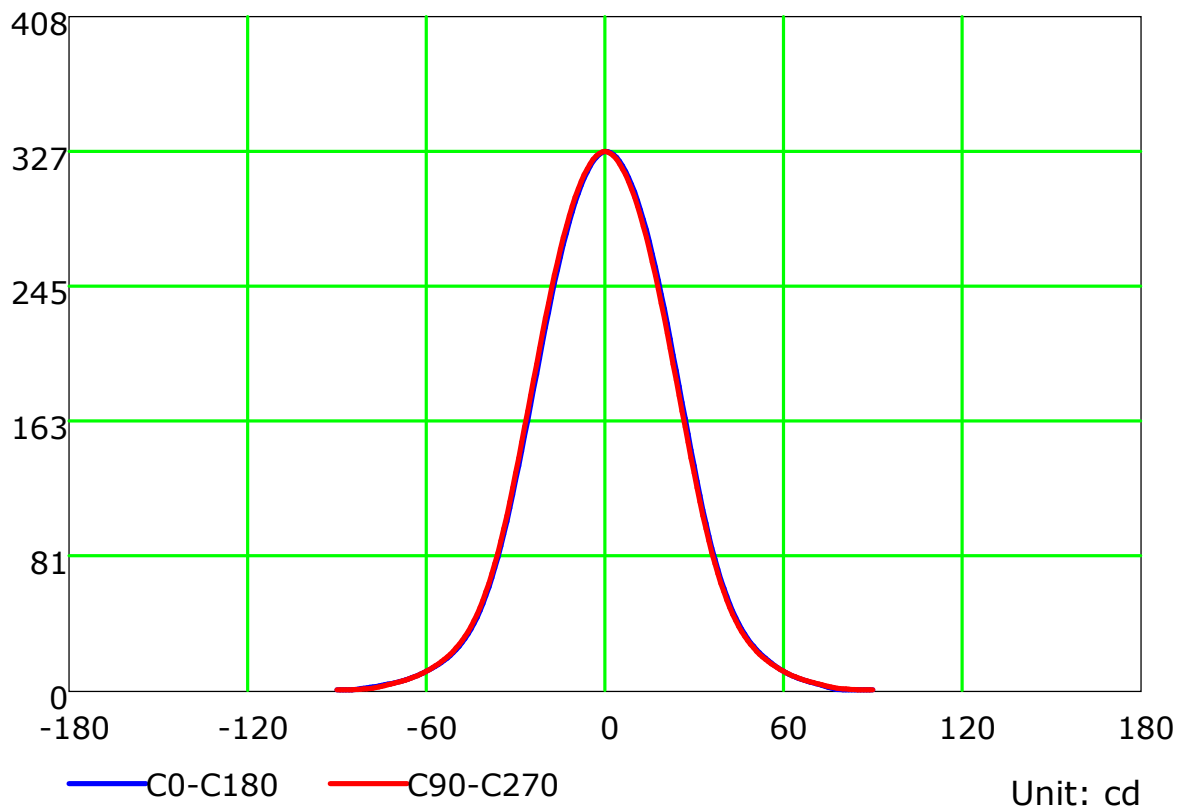
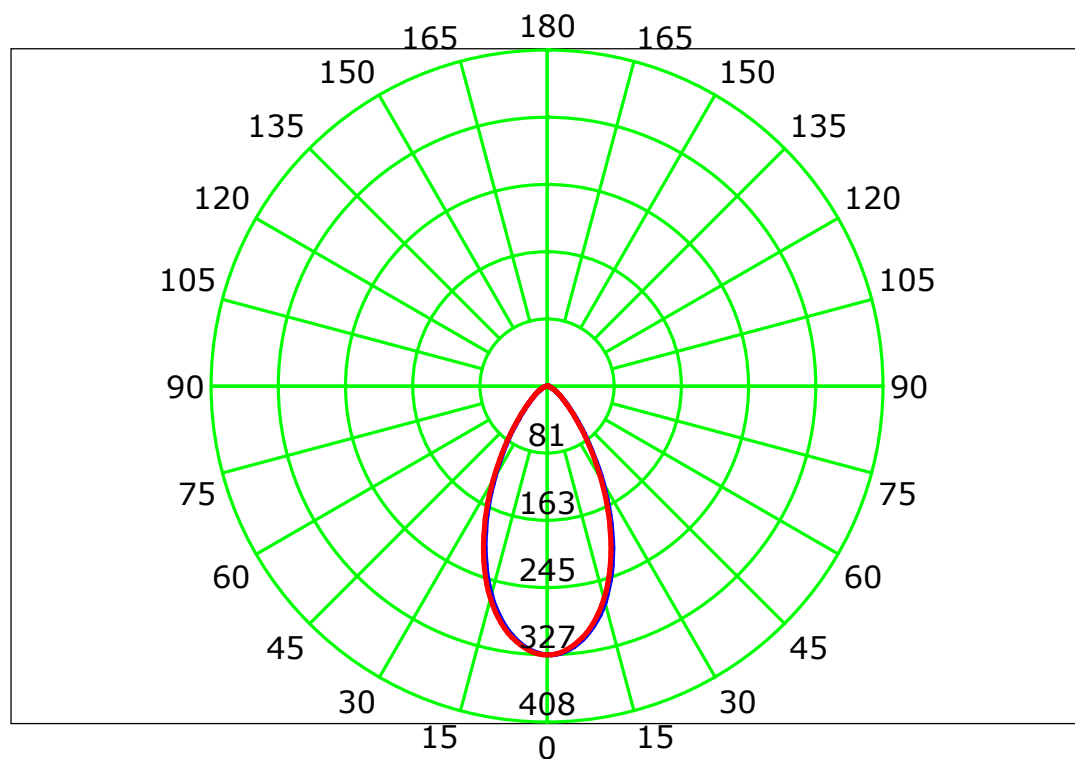
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

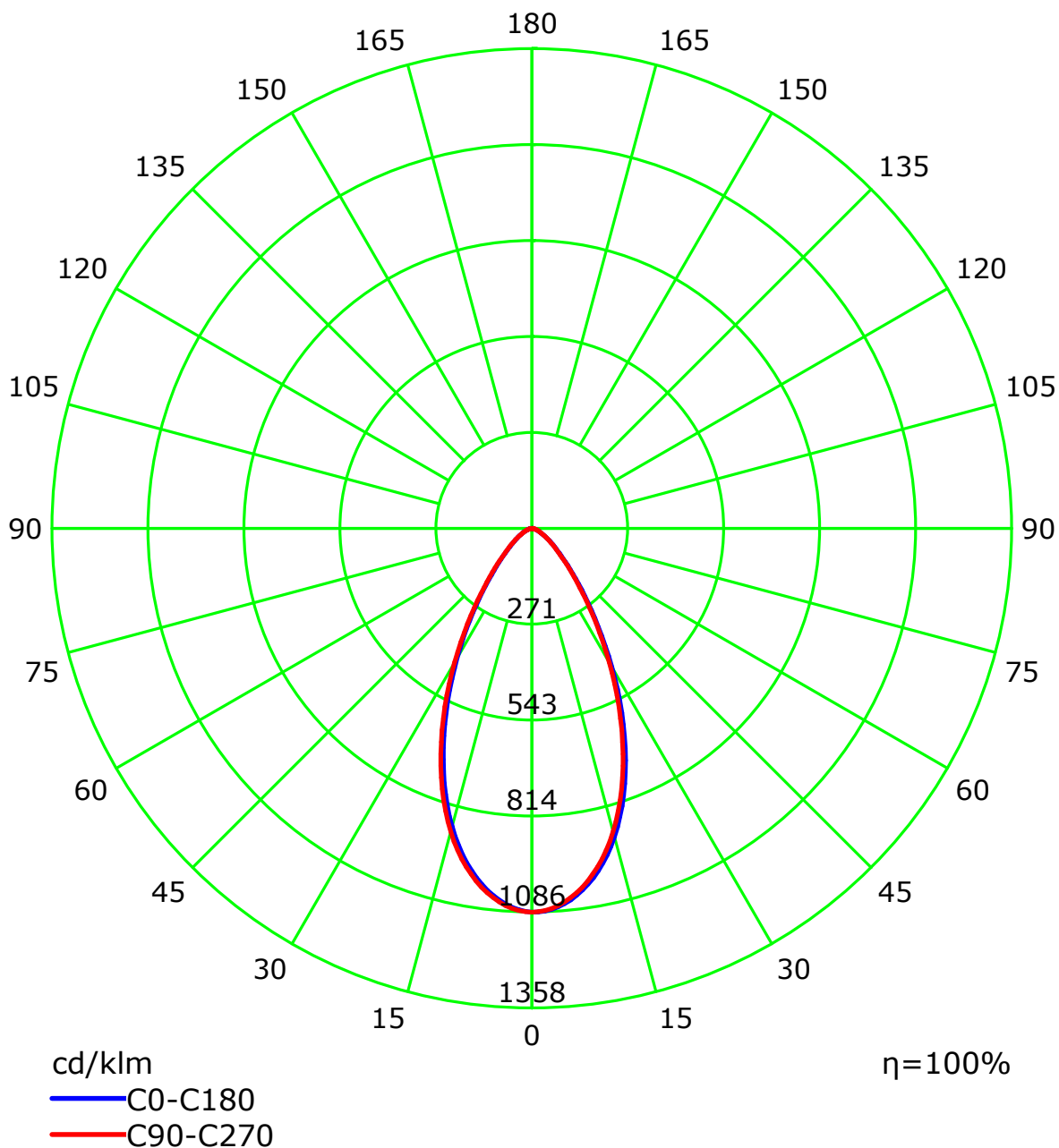
Luminous Intensity Distribution Curve



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: 2.905 m
Humidity:
Inspector:

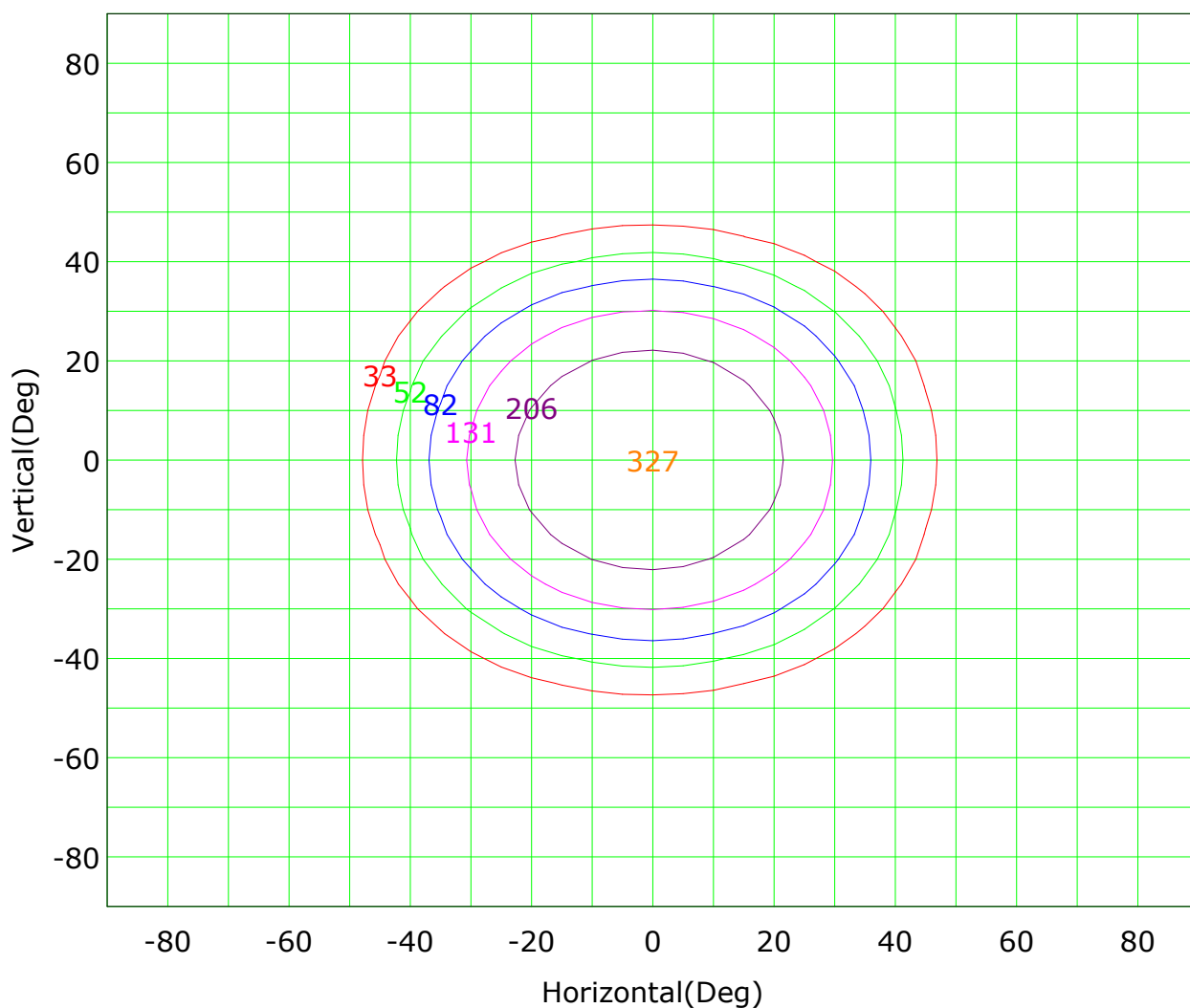
Luminous Intensity Distribution Curve(cd/klm)



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: 2.905 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 327 cd

(10%):	33 cd	(16%):	52 cd
(25%):	82 cd	(40%):	131 cd
(63%):	206 cd	(100%):	327 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

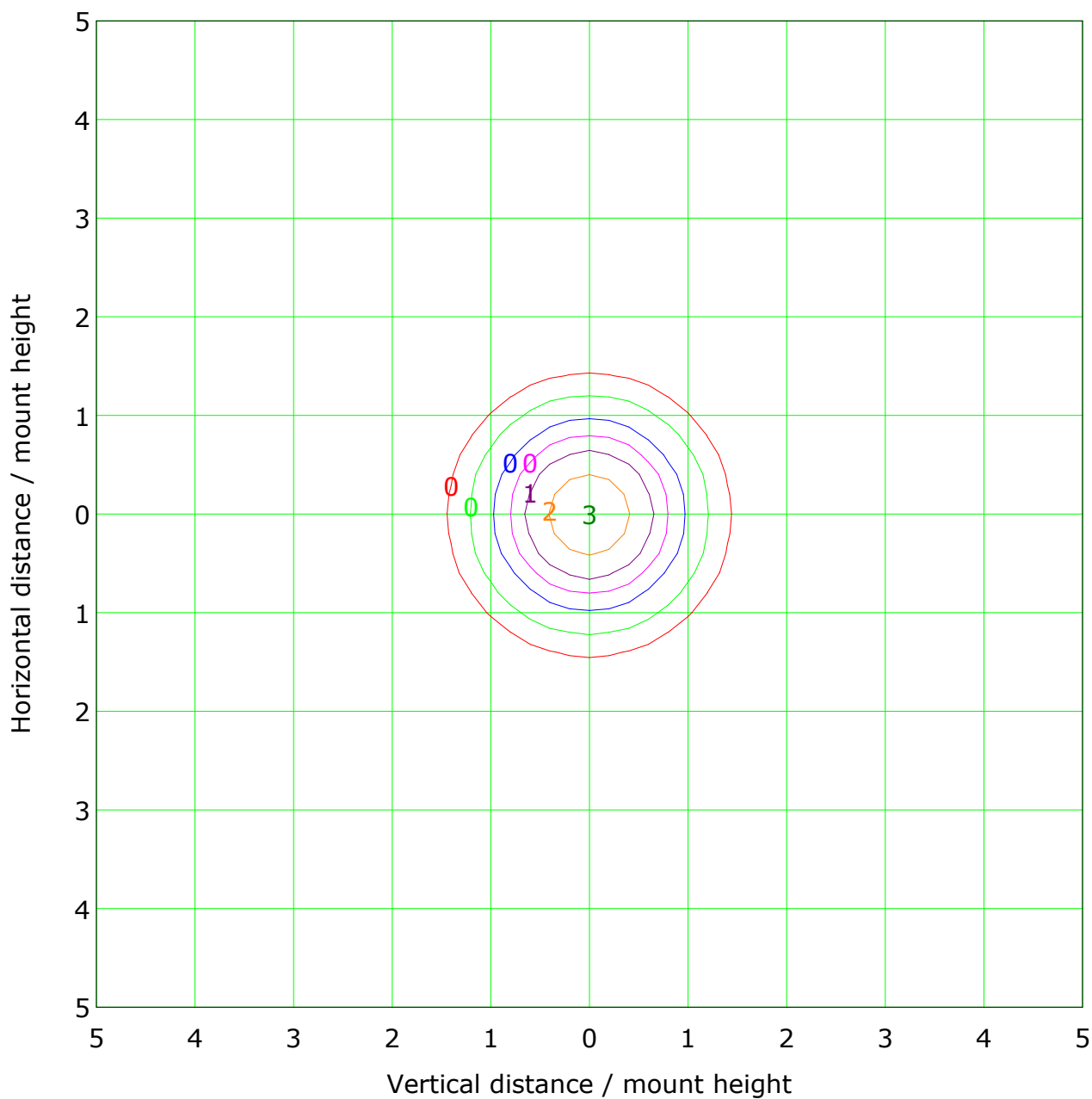
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



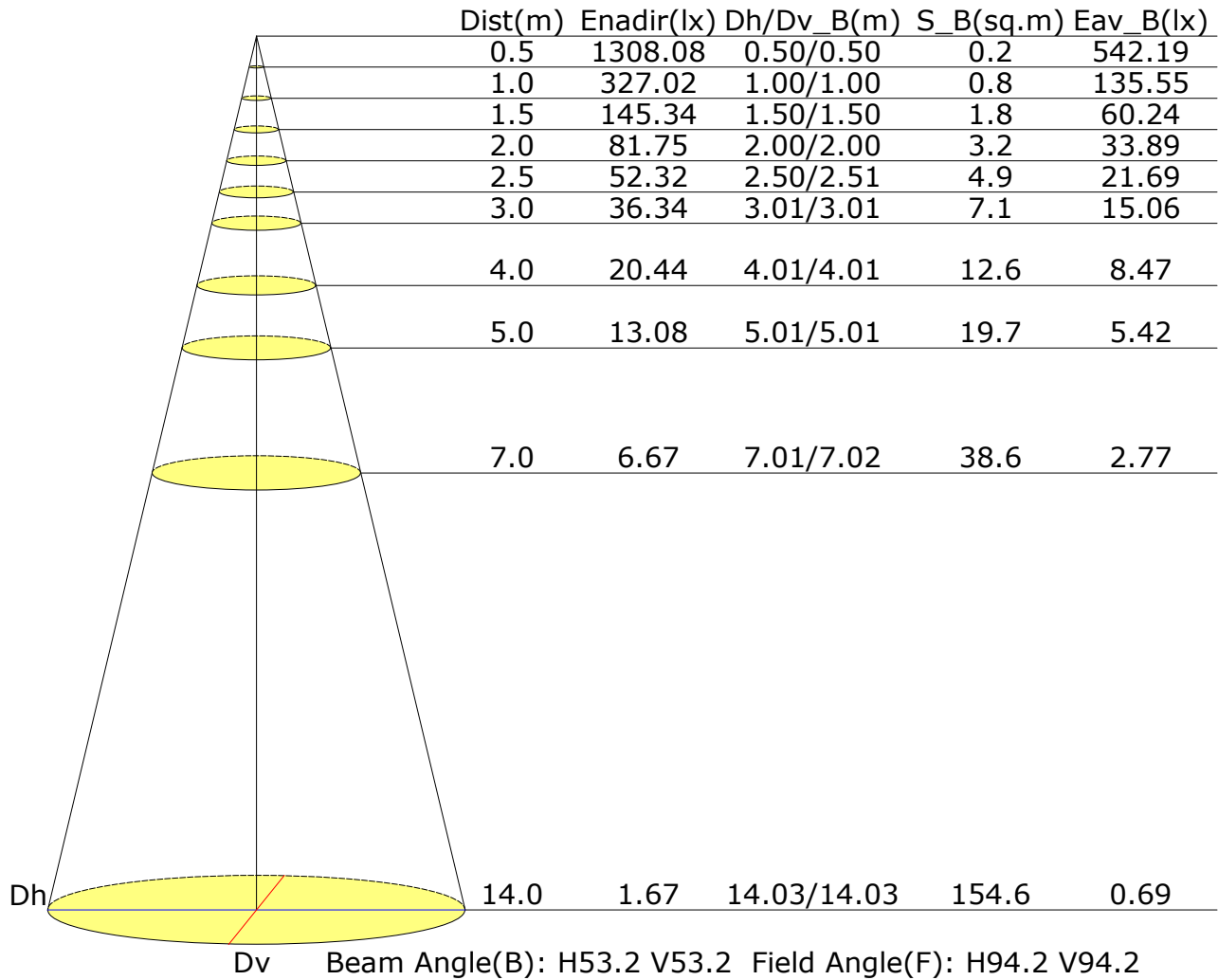
Mounting Height: 10.0m Max Lux(100%): 3.3 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.2 lx	(10%): 0.3 lx
(20%): 0.7 lx	(50%): 1.6 lx
(100%): 3.3 lx	

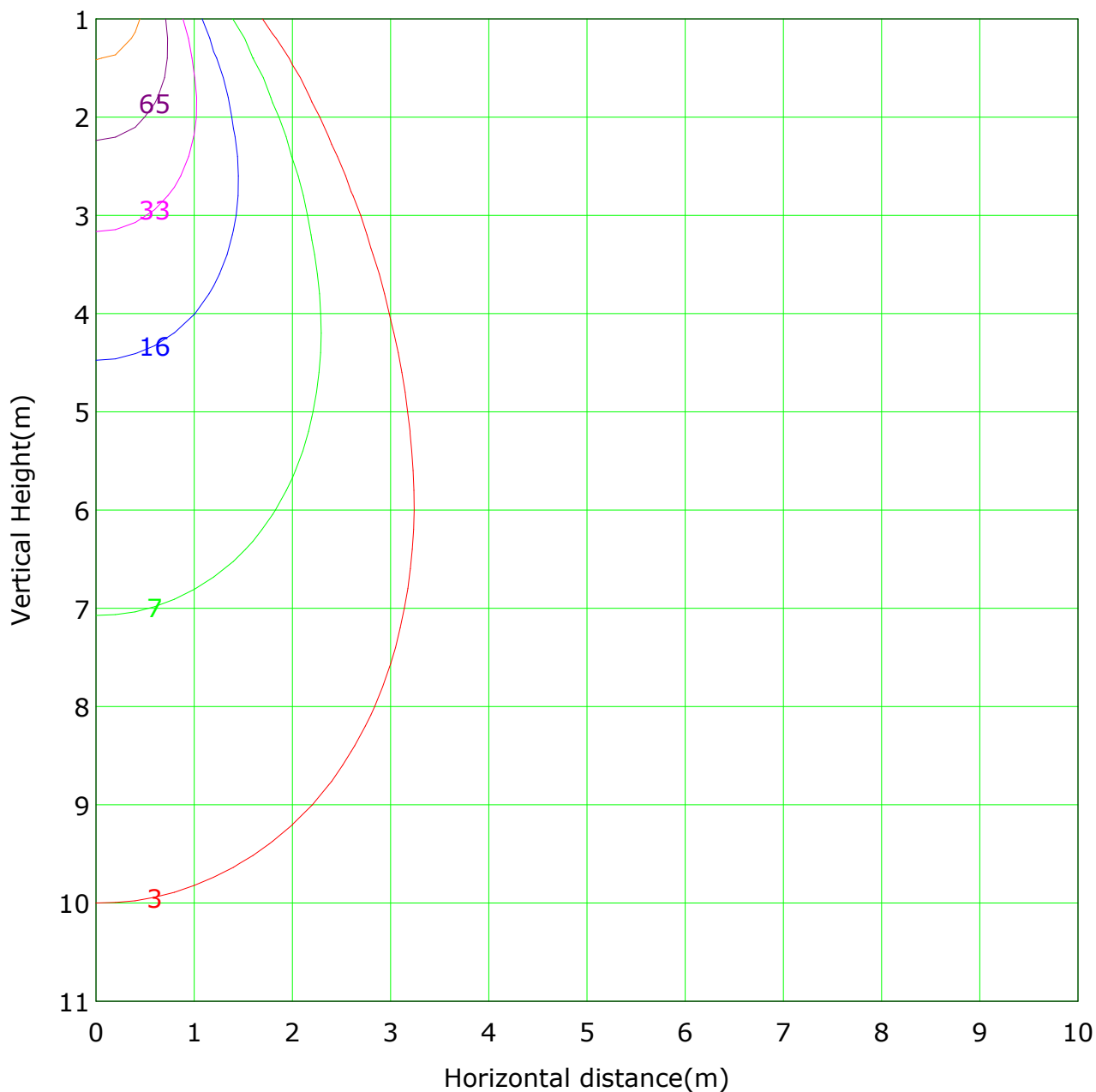
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 327.0 lx

(1%): 3.3 lx	(2%): 6.5 lx
(5%): 16.4 lx	(10%): 32.7 lx
(20%): 65.4 lx	(50%): 163.5 lx
(100%): 327.0 lx	

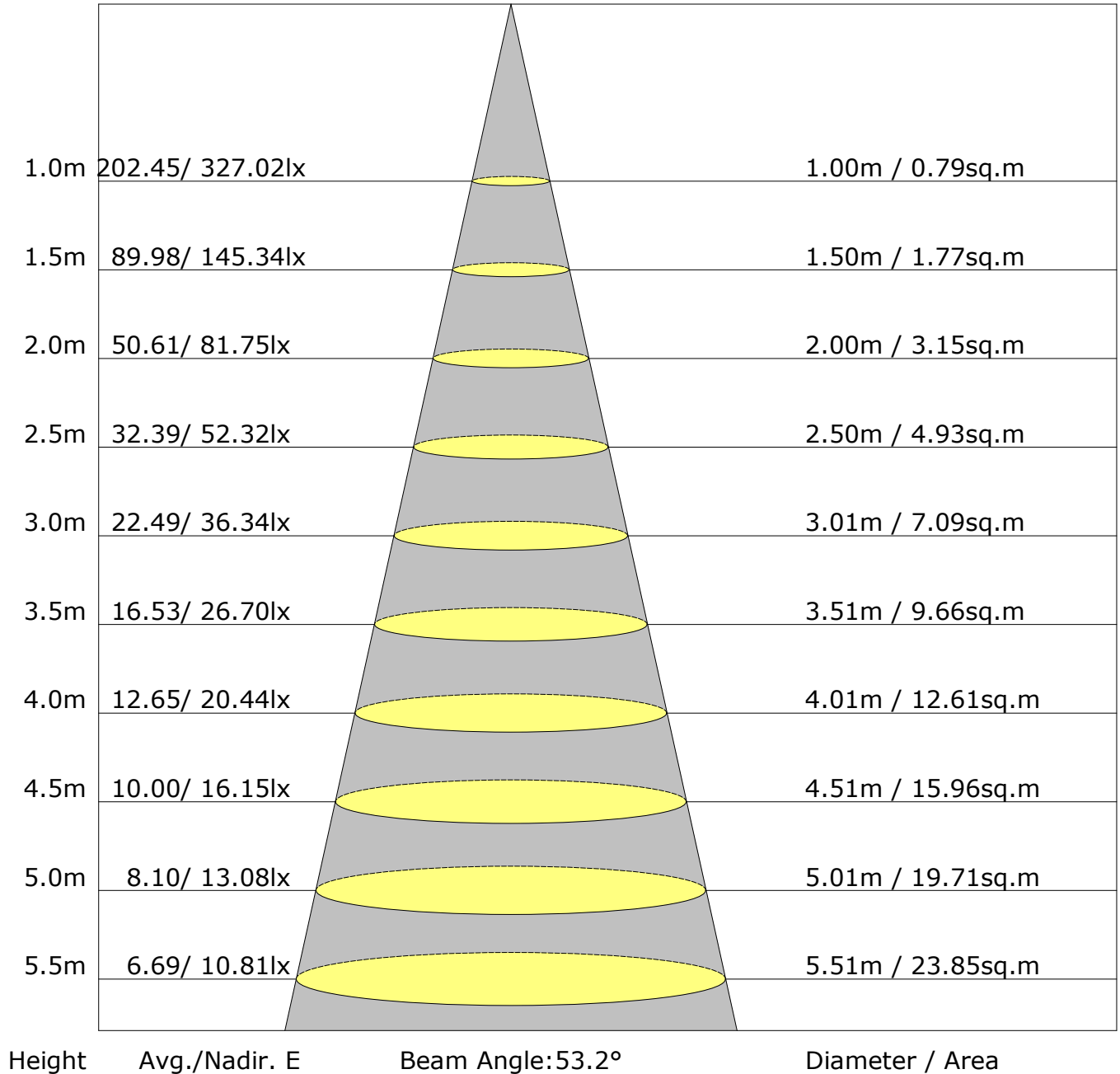
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

The Average Illuminance Effective Figure

Flux Out: 159.60lm



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	20.8	21.8	21.1	22.0	22.2	20.7	21.6	20.9	21.8	22.1
3H	21.0	21.9	21.3	22.1	22.4	20.9	21.8	21.2	22.0	22.3
4H	21.0	21.8	21.3	22.1	22.4	21.0	21.8	21.3	22.0	22.3
6H	21.0	21.7	21.3	22.0	22.3	20.9	21.7	21.3	22.0	22.3
8H	20.9	21.7	21.3	22.0	22.3	20.9	21.6	21.3	21.9	22.3
12H	20.9	21.6	21.3	21.9	22.2	20.9	21.6	21.3	21.9	22.2
X=4H Y=2H	20.9	21.7	21.2	21.9	22.2	20.7	21.6	21.1	21.8	22.1
3H	21.2	21.9	21.5	22.2	22.5	21.1	21.8	21.5	22.1	22.4
4H	21.2	21.8	21.6	22.2	22.5	21.2	21.8	21.6	22.1	22.5
6H	21.2	21.7	21.6	22.1	22.5	21.2	21.7	21.6	22.1	22.5
8H	21.1	21.6	21.6	22.0	22.4	21.2	21.7	21.6	22.0	22.5
12H	21.1	21.6	21.5	22.0	22.4	21.1	21.6	21.6	22.0	22.4
X=8H Y=4H	21.2	21.7	21.6	22.1	22.5	21.1	21.6	21.6	22.0	22.4
6H	21.1	21.5	21.6	21.9	22.4	21.1	21.5	21.6	22.0	22.4
8H	21.1	21.5	21.6	21.9	22.4	21.1	21.5	21.6	21.9	22.4
12H	21.1	21.4	21.6	21.9	22.4	21.1	21.4	21.6	21.9	22.4
X=12H Y=4H	21.1	21.6	21.6	22.0	22.4	21.1	21.5	21.5	21.9	22.4
6H	21.1	21.4	21.6	21.9	22.4	21.1	21.5	21.6	21.9	22.4
8H	21.1	21.4	21.6	21.8	22.3	21.1	21.4	21.6	21.9	22.4
Variations with the observer position at spacings:										
S=1.0H	+1.6/-1.9					+1.6/-1.8				
S=1.5H	+3.5/-3.2					+3.4/-3.0				
S=2.0H	+5.2/-4.4					+5.0/-4.1				

Calculate in accordance with CIE Pub.117. The table is revised with 301lm ($8\log(F/F_0) = -4.2$).

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: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	152	50.6
	FL (0°-30°)	94	31.2
	FM (30°-60°)	53	17.6
	FH (60°-80°)	5	1.7
	FVH (80°-90°)	0	0.1
	BACK LIGHT	149	49.4
	BL (0°-30°)	92	30.5
	BM (30°-60°)	51	17.0
	BH (60°-80°)	5	1.8
	BVH (80°-90°)	0	0.1
	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)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 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: 2.905 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	326.9	0.3	0.3	0.10	0.10
1.0-2.0	326.3	0.9	1.2	0.31	0.42
2.0-3.0	325.1	1.6	2.8	0.52	0.93
3.0-4.0	323.3	2.2	5.0	0.72	1.65
4.0-5.0	321.0	2.8	7.7	0.92	2.57
5.0-6.0	318.1	3.3	11.1	1.11	3.68
6.0-7.0	314.7	3.9	15.0	1.30	4.98
7.0-8.0	310.9	4.4	19.4	1.48	6.46
8.0-9.0	306.6	5.0	24.4	1.65	8.11
9.0-10.0	301.8	5.5	29.9	1.82	9.92
10.0-11.0	296.6	5.9	35.8	1.97	11.89
11.0-12.0	290.9	6.4	42.2	2.11	14.00
12.0-13.0	284.9	6.8	48.9	2.25	16.25
13.0-14.0	278.3	7.1	56.0	2.37	18.62
14.0-15.0	271.3	7.4	63.5	2.48	21.09
15.0-16.0	263.8	7.7	71.2	2.57	23.66
16.0-17.0	256.0	8.0	79.2	2.65	26.31
17.0-18.0	247.8	8.2	87.4	2.71	29.03
18.0-19.0	239.3	8.3	95.7	2.77	31.79
19.0-20.0	230.5	8.4	104.1	2.80	34.60
20.0-21.0	221.4	8.5	112.6	2.83	37.42
21.0-22.0	212.1	8.5	121.2	2.83	40.25
22.0-23.0	202.7	8.5	129.7	2.83	43.08
23.0-24.0	193.2	8.4	138.1	2.81	45.89
24.0-25.0	183.7	8.4	146.5	2.78	48.66
25.0-26.0	174.1	8.2	154.7	2.73	51.39
26.0-27.0	164.6	8.1	162.7	2.68	54.07
27.0-28.0	155.2	7.9	170.6	2.61	56.68
28.0-29.0	145.8	7.6	178.2	2.54	59.22
29.0-30.0	136.6	7.4	185.6	2.45	61.67
30.0-31.0	127.5	7.1	192.7	2.36	64.03
31.0-32.0	118.8	6.8	199.5	2.26	66.29
32.0-33.0	110.3	6.5	206.0	2.16	68.45
33.0-34.0	102.2	6.2	212.2	2.05	70.50
34.0-35.0	94.5	5.9	218.1	1.95	72.45
35.0-36.0	87.2	5.6	223.6	1.84	74.29

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: 2.905 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	80.4	5.2	228.9	1.74	76.04
37.0-38.0	74.0	4.9	233.8	1.64	77.68
38.0-39.0	68.0	4.6	238.4	1.54	79.22
39.0-40.0	62.5	4.4	242.8	1.45	80.67
40.0-41.0	57.4	4.1	246.9	1.36	82.03
41.0-42.0	52.7	3.8	250.7	1.27	83.30
42.0-43.0	48.4	3.6	254.3	1.19	84.49
43.0-44.0	44.4	3.4	257.6	1.11	85.60
44.0-45.0	40.8	3.1	260.8	1.04	86.64
45.0-46.0	37.4	2.9	263.7	0.97	87.62
46.0-47.0	34.4	2.7	266.4	0.91	88.53
47.0-48.0	31.7	2.6	269.0	0.85	89.38
48.0-49.0	29.2	2.4	271.4	0.80	90.17
49.0-50.0	26.9	2.2	273.6	0.75	90.92
50.0-51.0	24.9	2.1	275.7	0.70	91.62
51.0-52.0	23.0	2.0	277.7	0.66	92.27
52.0-53.0	21.3	1.9	279.6	0.62	92.89
53.0-54.0	19.7	1.7	281.3	0.58	93.47
54.0-55.0	18.3	1.6	282.9	0.54	94.01
55.0-56.0	16.9	1.5	284.5	0.51	94.52
56.0-57.0	15.6	1.4	285.9	0.48	94.99
57.0-58.0	14.4	1.3	287.2	0.44	95.44
58.0-59.0	13.3	1.2	288.5	0.41	95.85
59.0-60.0	12.2	1.2	289.6	0.38	96.23
60.0-61.0	11.3	1.1	290.7	0.36	96.59
61.0-62.0	10.4	1.0	291.7	0.33	96.92
62.0-63.0	9.5	0.9	292.6	0.31	97.23
63.0-64.0	8.7	0.9	293.5	0.29	97.51
64.0-65.0	8.0	0.8	294.3	0.26	97.78
65.0-66.0	7.3	0.7	295.0	0.24	98.02
66.0-67.0	6.7	0.7	295.7	0.22	98.25
67.0-68.0	6.1	0.6	296.3	0.21	98.45
68.0-69.0	5.6	0.6	296.9	0.19	98.64
69.0-70.0	5.1	0.5	297.4	0.17	98.82
70.0-71.0	4.7	0.5	297.9	0.16	98.98
71.0-72.0	4.2	0.4	298.3	0.15	99.12

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: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	327.0	327.0								
G1.0	327.0	326.4								
G2.0	326.4	325.3								
G3.0	325.2	323.5								
G4.0	323.4	321.1								
G5.0	321.1	318.2								
G6.0	318.3	314.8								
G7.0	315.0	310.8								
G8.0	311.2	306.5								
G9.0	307.0	301.6								
G10.0	302.4	296.3								
G11.0	297.2	290.5								
G12.0	291.6	284.4								
G13.0	285.7	277.6								
G14.0	279.4	270.5								
G15.0	272.3	263.0								
G16.0	264.8	255.3								
G17.0	256.8	247.1								
G18.0	248.8	238.5								
G19.0	240.4	229.5								
G20.0	231.6	220.4								
G21.0	222.6	211.1								
G22.0	213.3	201.6								
G23.0	203.7	192.2								
G24.0	194.1	182.8								
G25.0	184.5	173.2								
G26.0	174.9	163.9								
G27.0	165.2	154.6								
G28.0	155.6	145.4								
G29.0	145.9	136.4								
G30.0	136.4	127.6								
G31.0	127.2	118.9								
G32.0	118.3	110.7								
G33.0	109.6	102.6								
G34.0	101.6	94.9								
G35.0	93.7	87.7								
G36.0	86.5	80.9								

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: 2.905 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	79.7	74.4								
G38.0	73.4	68.4								
G39.0	67.5	62.8								
G40.0	62.1	57.5								
G41.0	57.1	52.8								
G42.0	52.5	48.4								
G43.0	48.2	44.4								
G44.0	44.3	40.8								
G45.0	40.6	37.4								
G46.0	37.3	34.4								
G47.0	34.3	31.6								
G48.0	31.6	29.2								
G49.0	29.1	26.9								
G50.0	26.9	24.8								
G51.0	24.8	23.0								
G52.0	23.0	21.3								
G53.0	21.3	19.7								
G54.0	19.7	18.3								
G55.0	18.2	17.0								
G56.0	16.7	15.8								
G57.0	15.3	14.7								
G58.0	14.0	13.7								
G59.0	12.8	12.6								
G60.0	11.8	11.7								
G61.0	10.8	10.8								
G62.0	9.9	10.0								
G63.0	9.0	9.2								
G64.0	8.3	8.5								
G65.0	7.5	7.8								
G66.0	6.8	7.2								
G67.0	6.2	6.6								
G68.0	5.7	6.0								
G69.0	5.2	5.5								
G70.0	4.7	5.0								
G71.0	4.2	4.6								
G72.0	3.7	4.2								
G73.0	3.2	3.9								

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: 2.905 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: