

Test Time: 2019-07-25 10:21

Luminaire Manufacturer:

Voltage: 230.2 V
Power: 28.40 W

Photometric Results

Total Rated Lamp Lumens: 2217.6 lm

Efficiency: 100%

Upward Ratio: 0%

135/315): 180.0, 159.3, 180.0, 179.8

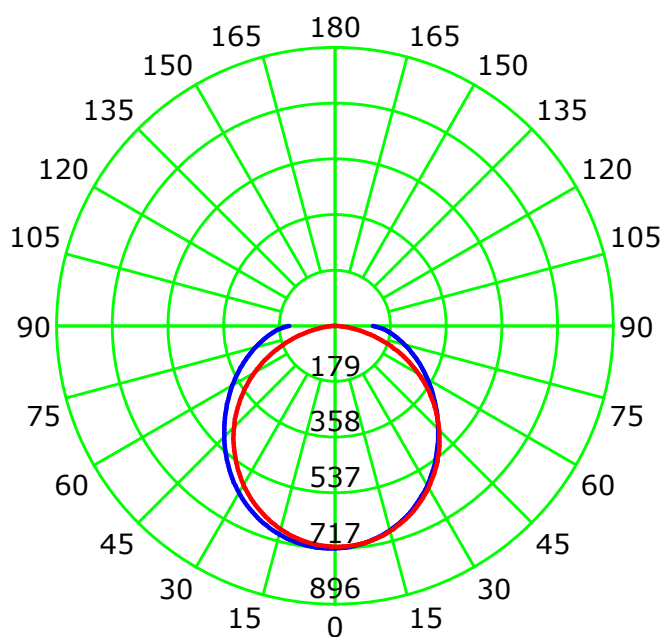
C135/315): 121.1, 111.3, 114.4, 113.9

Central Intensity: 716.6 cd

Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 1.25

Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

Gamma Plane (°):0.0-90.0:1.0

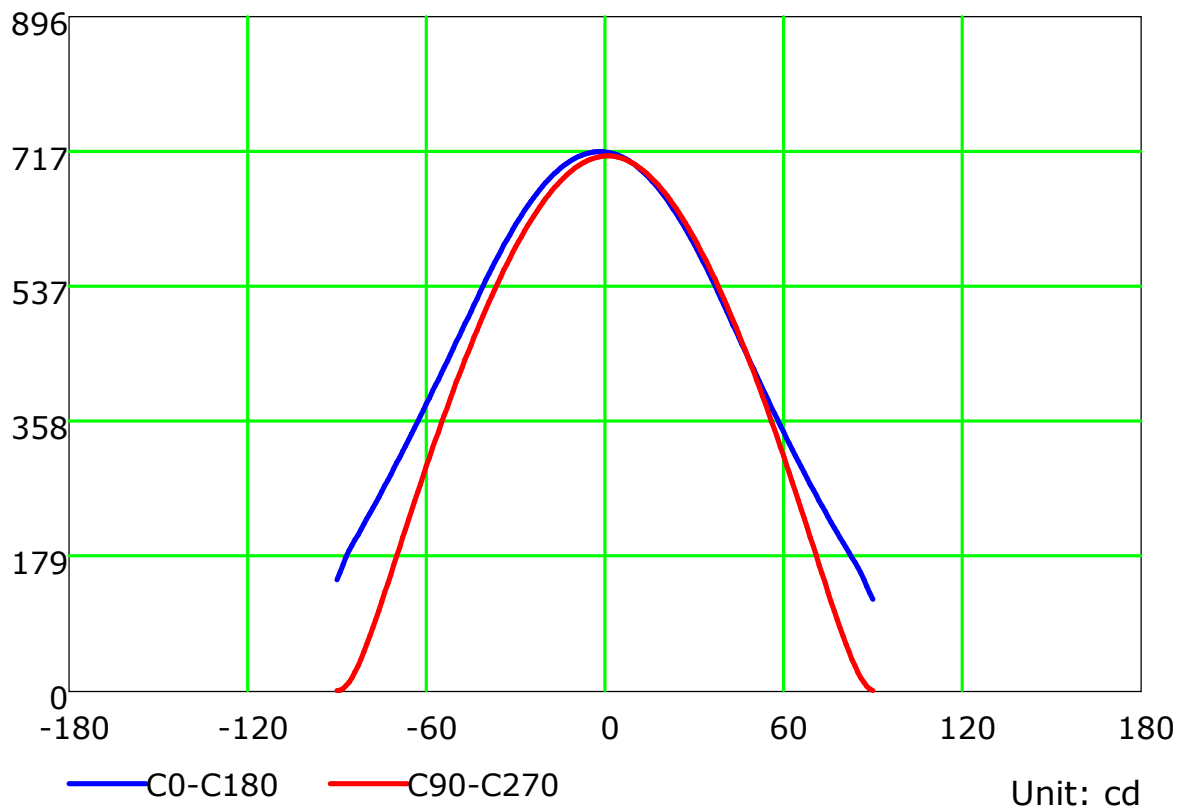
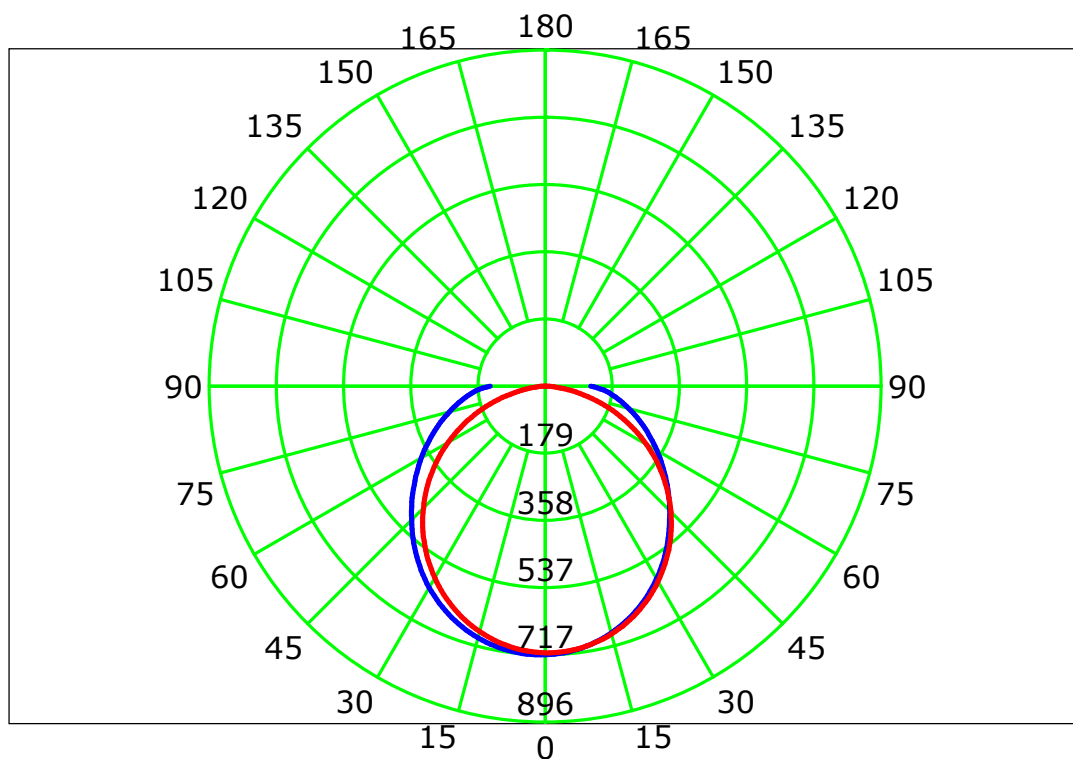
Test Device: GPM-1600L

Distance: 7.400 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
Test Lab: Trontop
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.400 m
Humidity:
Inspector:

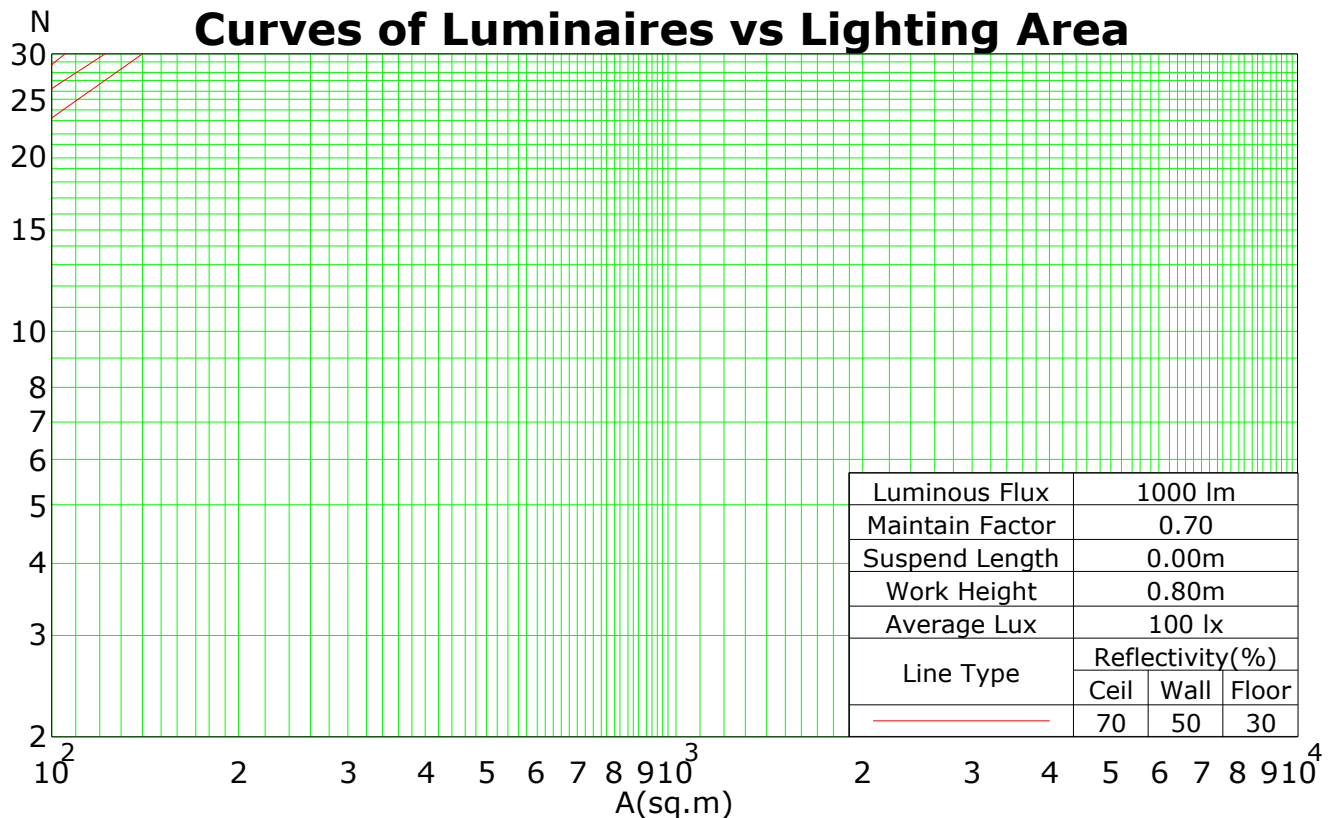
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	101	96	92	104	99	94	90	95	91	87	91	88	85	87	84	82	80
2	97	87	80	74	94	85	79	73	82	76	71	78	74	69	75	71	68	65
3	88	76	68	60	85	75	67	60	72	65	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.37



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Test Lab: Trontop

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

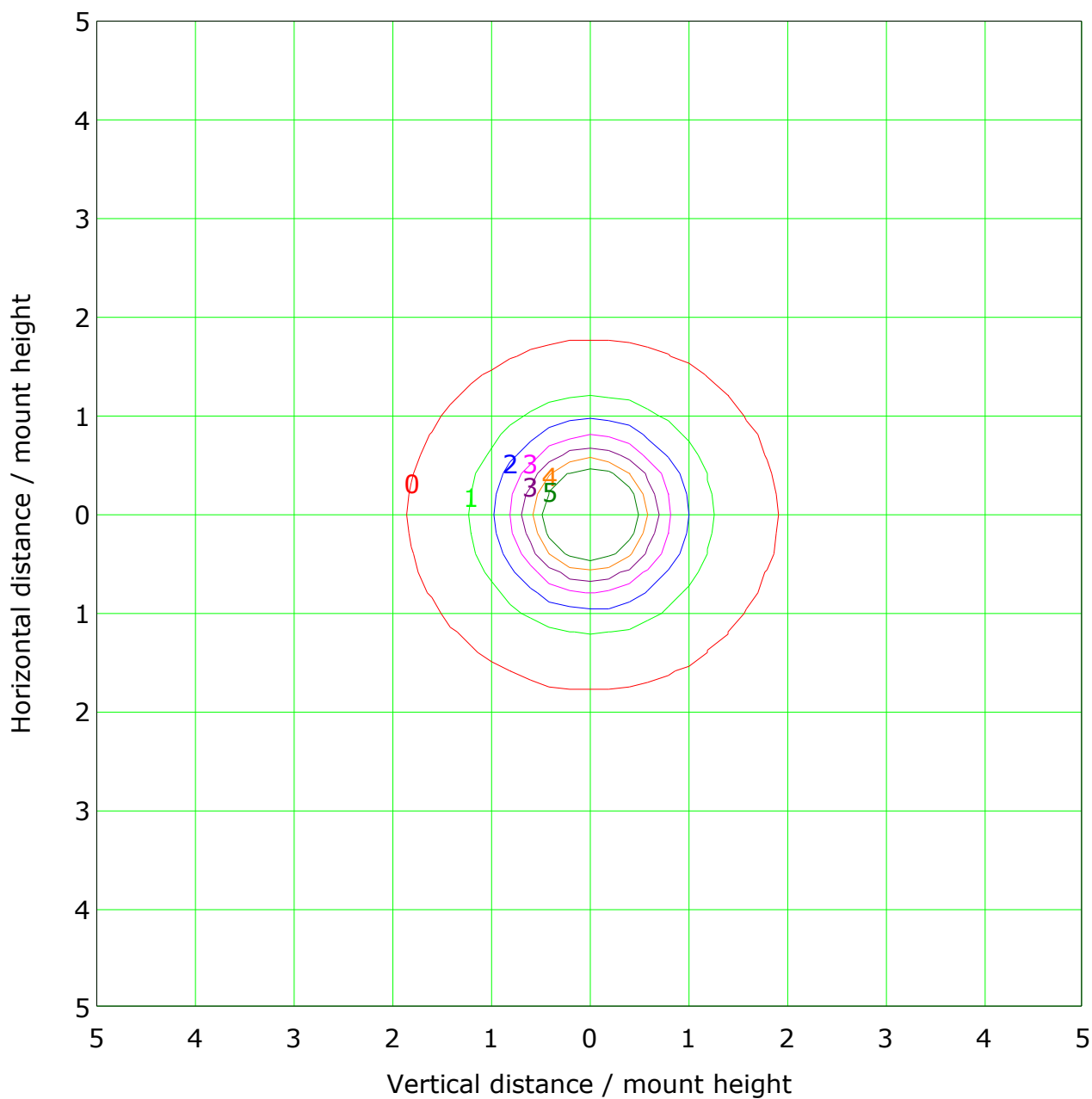
Test Device: GPM-1600L

Distance: 7.400 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 7.2 lx	
— (5%):	0.4 lx	— (15%):	1.1 lx
— (25%):	1.8 lx	— (35%):	2.5 lx
— (45%):	3.2 lx	— (55%):	3.9 lx
— (65%):	4.7 lx		

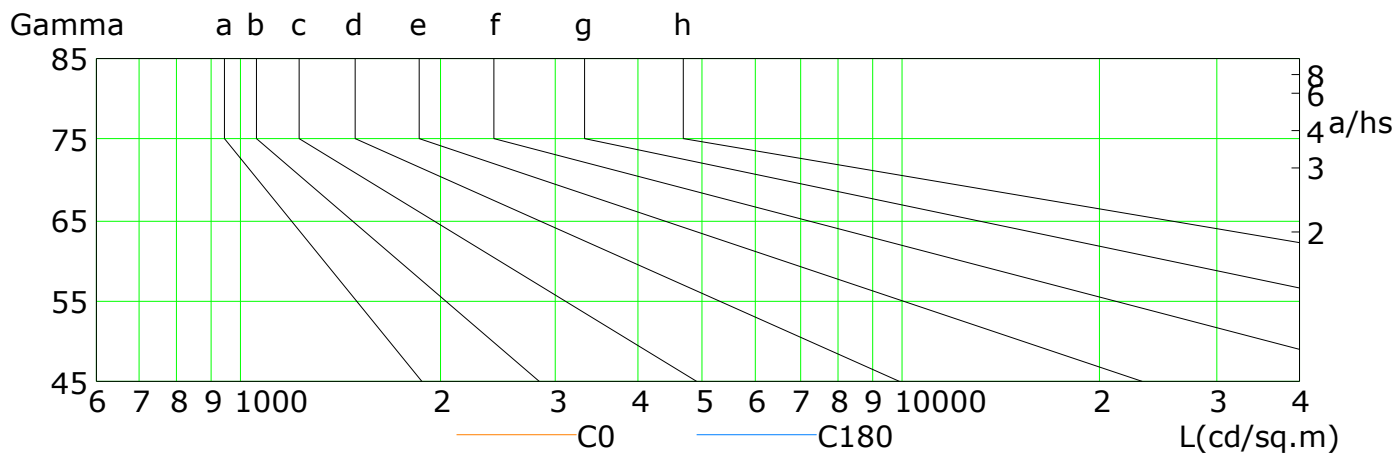
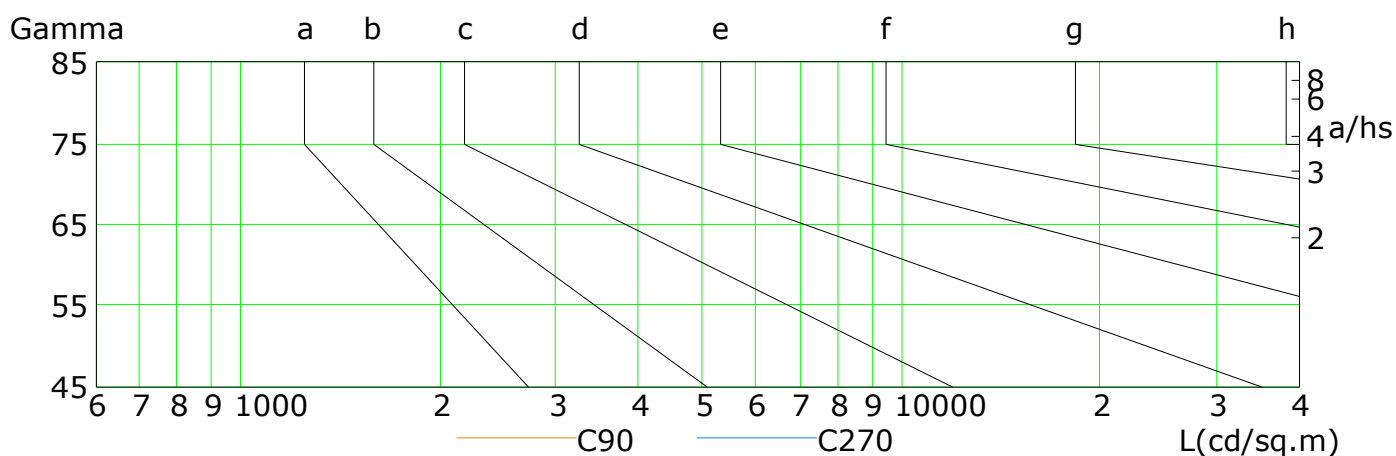
C Plane (°):0.0-360.0: 45.0
Test Lab: Trontop
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Test Device: GPM-1600L
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

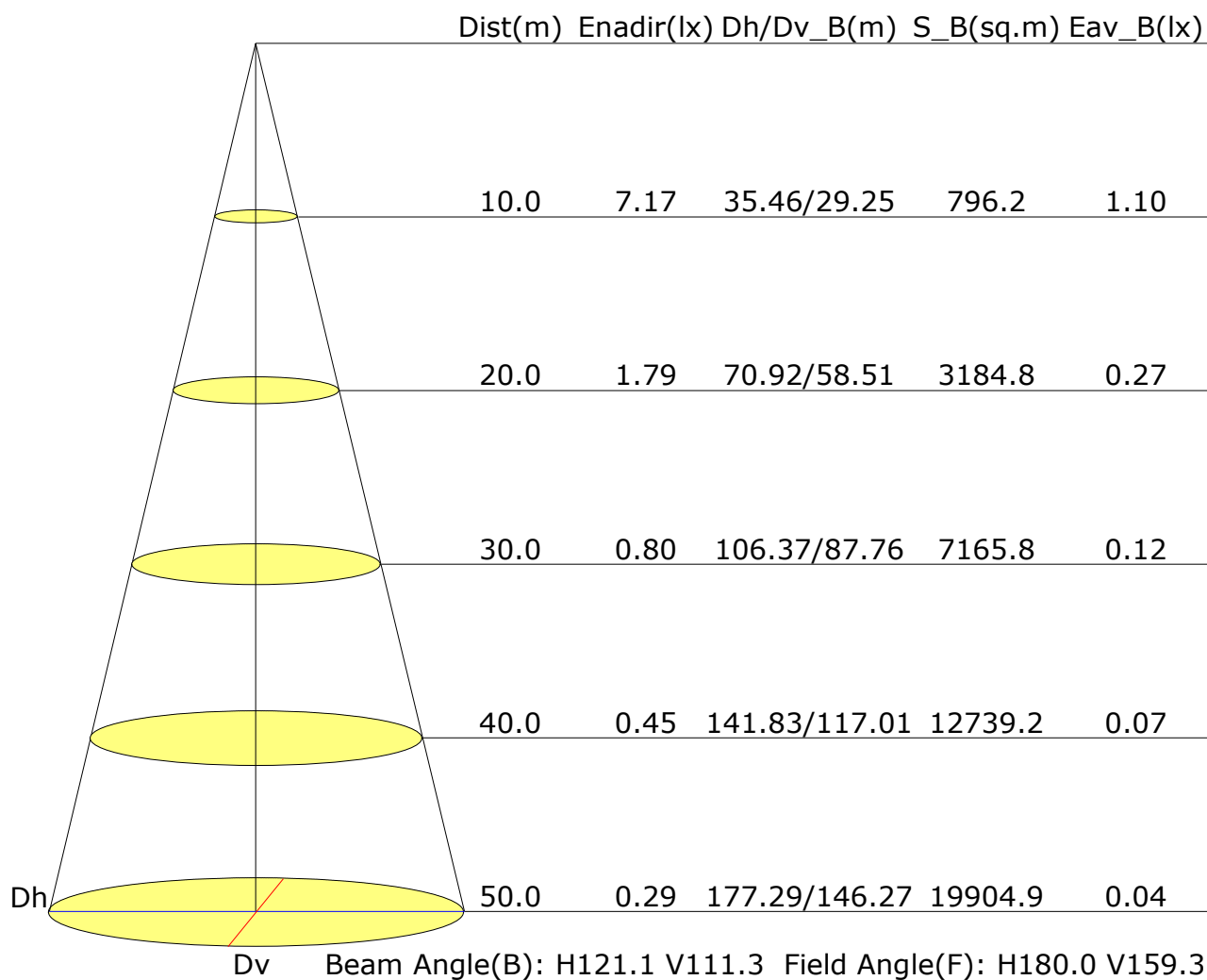


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	470	428	385	345	305	267	231	197	164
C90	475	424	370	313	253	192	131	73	24
C180	504	464	422	382	341	303	265	229	194
C270	460	410	356	299	240	179	118	62	17

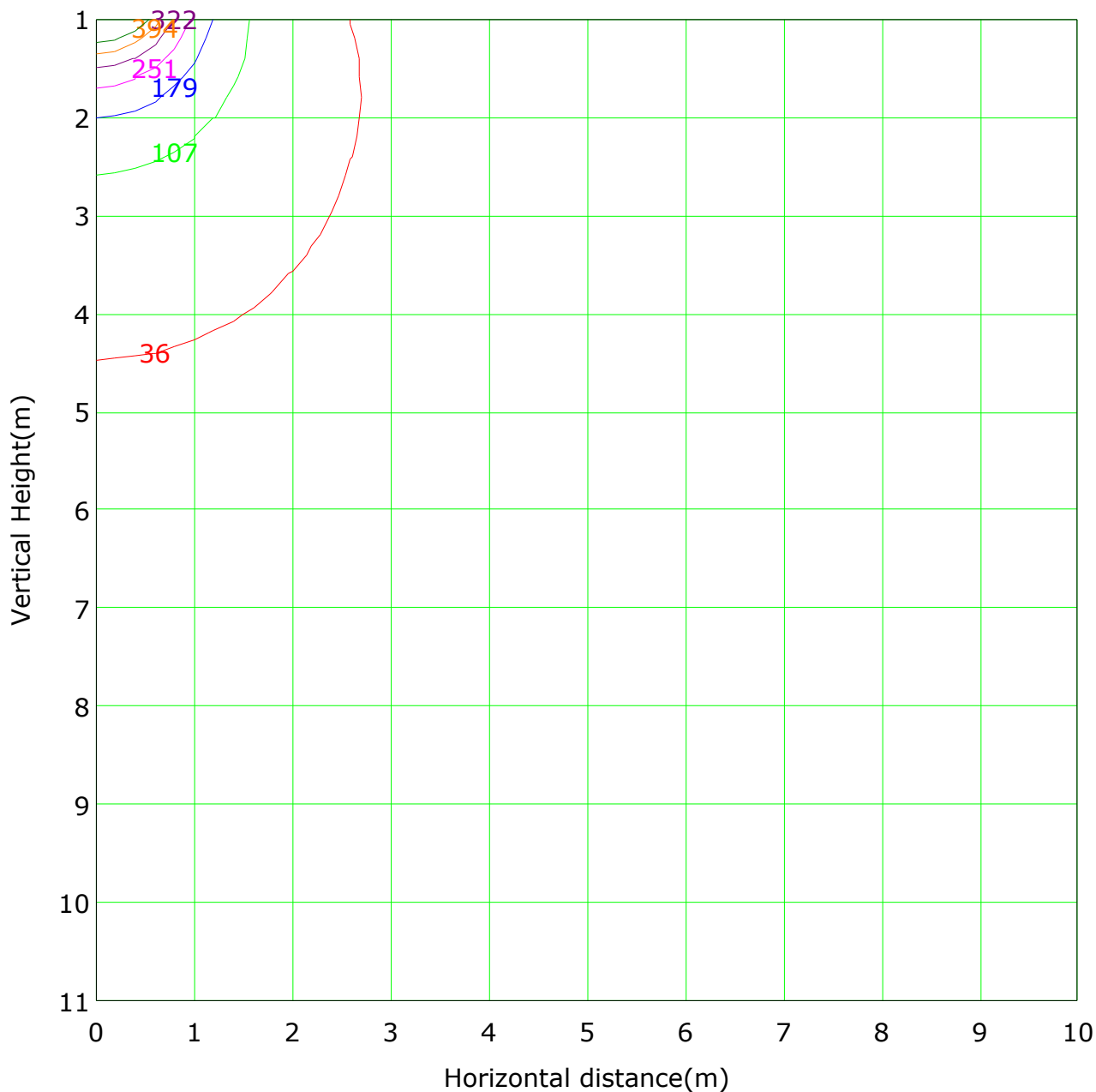
C Plane (°):0.0-360.0: 45.0
 Test Lab: Trontop
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 Humidity:
 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 716.6 lx

(5%): 35.8 lx	(15%): 107.5 lx
(25%): 179.1 lx	(35%): 250.8 lx
(45%): 322.5 lx	(55%): 394.1 lx
(65%): 465.8 lx	

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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1118	50.4
	FL (0°-30°)	277	12.5
	FM (30°-60°)	534	24.1
	FH (60°-80°)	245	11.1
	FVH (80°-90°)	62	2.8
	BACK LIGHT	1099	49.6
	BL (0°-30°)	275	12.4
	BM (30°-60°)	525	23.7
	BH (60°-80°)	239	10.8
	BVH (80°-90°)	60	2.7
	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 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	712.9	0.7	0.7	0.03	0.03
1.0-2.0	712.6	2.0	2.7	0.09	0.12
2.0-3.0	712.1	3.4	6.1	0.15	0.28
3.0-4.0	711.3	4.8	10.9	0.21	0.49
4.0-5.0	710.3	6.1	17.0	0.28	0.77
5.0-6.0	709.0	7.5	24.5	0.34	1.10
6.0-7.0	707.4	8.8	33.2	0.40	1.50
7.0-8.0	705.6	10.1	43.3	0.46	1.95
8.0-9.0	703.5	11.4	54.7	0.51	2.47
9.0-10.0	701.2	12.7	67.4	0.57	3.04
10.0-11.0	698.5	14.0	81.4	0.63	3.67
11.0-12.0	695.6	15.2	96.6	0.69	4.36
12.0-13.0	692.6	16.4	113.0	0.74	5.10
13.0-14.0	689.3	17.6	130.7	0.80	5.89
14.0-15.0	685.6	18.8	149.5	0.85	6.74
15.0-16.0	681.8	20.0	169.5	0.90	7.64
16.0-17.0	677.7	21.1	190.6	0.95	8.59
17.0-18.0	673.4	22.2	212.8	1.00	9.60
18.0-19.0	668.8	23.3	236.1	1.05	10.65
19.0-20.0	664.0	24.3	260.4	1.10	11.74
20.0-21.0	659.1	25.3	285.7	1.14	12.88
21.0-22.0	653.8	26.3	312.0	1.18	14.07
22.0-23.0	648.3	27.2	339.2	1.23	15.29
23.0-24.0	642.6	28.1	367.3	1.27	16.56
24.0-25.0	636.7	29.0	396.2	1.31	17.87
25.0-26.0	630.7	29.8	426.0	1.34	19.21
26.0-27.0	624.3	30.5	456.6	1.38	20.59
27.0-28.0	617.7	31.3	487.8	1.41	22.00
28.0-29.0	611.1	32.0	519.8	1.44	23.44
29.0-30.0	604.1	32.6	552.4	1.47	24.91
30.0-31.0	596.9	33.2	585.7	1.50	26.41
31.0-32.0	589.5	33.8	619.4	1.52	27.93
32.0-33.0	582.0	34.3	653.7	1.55	29.48
33.0-34.0	574.6	34.8	688.5	1.57	31.05
34.0-35.0	566.7	35.2	723.7	1.59	32.63
35.0-36.0	558.6	35.6	759.3	1.60	34.24

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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	550.5	35.9	795.2	1.62	35.86
37.0-38.0	542.1	36.2	831.4	1.63	37.49
38.0-39.0	533.7	36.4	867.8	1.64	39.13
39.0-40.0	525.0	36.6	904.4	1.65	40.78
40.0-41.0	516.1	36.8	941.2	1.66	42.44
41.0-42.0	507.5	36.9	978.0	1.66	44.10
42.0-43.0	498.4	36.9	1015.0	1.67	45.77
43.0-44.0	489.2	36.9	1051.9	1.67	47.43
44.0-45.0	480.1	36.9	1088.8	1.66	49.10
45.0-46.0	470.7	36.8	1125.6	1.66	50.76
46.0-47.0	461.6	36.7	1162.3	1.66	52.41
47.0-48.0	452.0	36.5	1198.9	1.65	54.06
48.0-49.0	442.4	36.3	1235.2	1.64	55.70
49.0-50.0	433.2	36.1	1271.3	1.63	57.33
50.0-51.0	423.4	35.8	1307.2	1.62	58.95
51.0-52.0	413.6	35.5	1342.7	1.60	60.55
52.0-53.0	404.0	35.2	1377.8	1.59	62.13
53.0-54.0	394.2	34.8	1412.6	1.57	63.70
54.0-55.0	384.6	34.3	1446.9	1.55	65.25
55.0-56.0	374.8	33.9	1480.8	1.53	66.77
56.0-57.0	365.0	33.4	1514.2	1.51	68.28
57.0-58.0	355.6	32.9	1547.0	1.48	69.76
58.0-59.0	345.9	32.3	1579.4	1.46	71.22
59.0-60.0	336.1	31.8	1611.2	1.43	72.65
60.0-61.0	326.5	31.2	1642.3	1.41	74.06
61.0-62.0	316.7	30.5	1672.8	1.38	75.44
62.0-63.0	307.4	29.9	1702.7	1.35	76.78
63.0-64.0	297.7	29.2	1731.9	1.32	78.10
64.0-65.0	288.1	28.5	1760.5	1.29	79.39
65.0-66.0	278.8	27.8	1788.3	1.25	80.64
66.0-67.0	269.3	27.1	1815.4	1.22	81.86
67.0-68.0	259.9	26.3	1841.7	1.19	83.05
68.0-69.0	250.6	25.6	1867.2	1.15	84.20
69.0-70.0	241.1	24.8	1892.0	1.12	85.32
70.0-71.0	232.2	24.0	1916.0	1.08	86.40
71.0-72.0	223.0	23.2	1939.2	1.05	87.45

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