

Report No.:

Test Time: 2024-03-04 19:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -150

Luminous Height (mm):

Current: 0.064 A

Power Factor: 0.491

Luminaire Description: S-4901-3000K-WH

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -150

Voltage: 220.0 V

Power: 6.94 W

Photometric Results

CIE Class: General Diffuse

Measurement Flux: 227.6 lm

Downward Ratio: 59%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 347.1, 338.9, 344.2, 345.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 328.4, 199.6, 264.0, 260.0

Luminaire Efficacy Rating (LER): 32.85

Max. Intensity: 44.75 cd

S/MH(C0/C180): 7.85

Total Rated Lamp Lumens: 227.6 lm

Efficiency: 100%

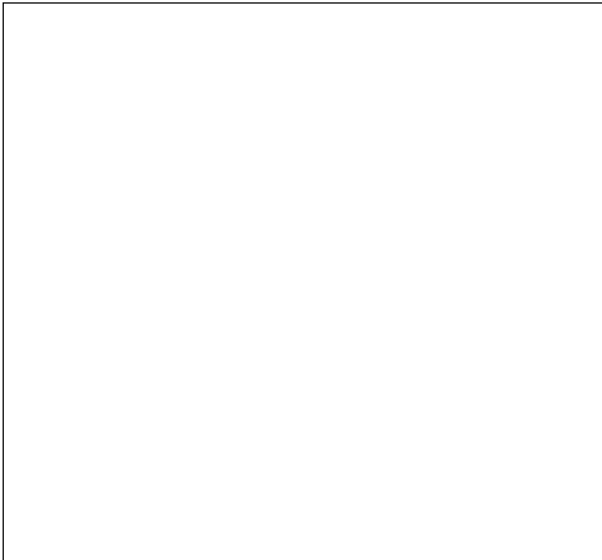
Upward Ratio: 41%

C0r0 Intensity: 0.98 cd

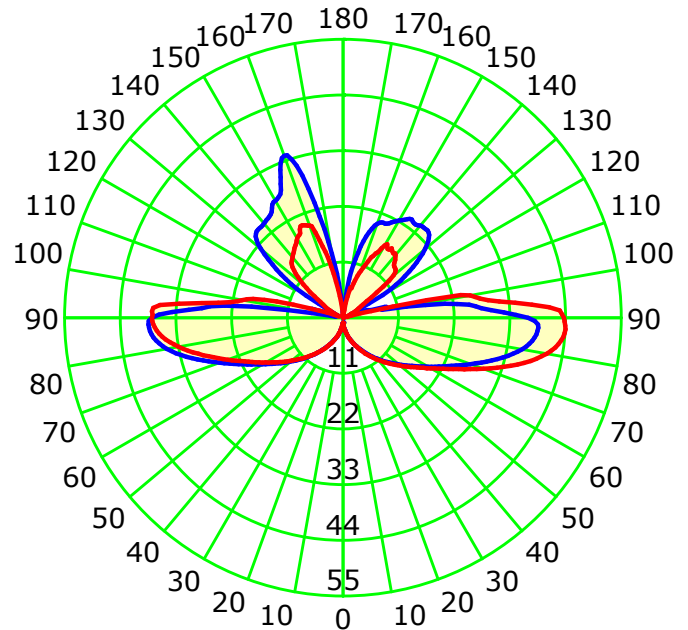
Pos of Max. Intensity: H90 V87

S/MH(C90/C270): 7.81

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 264.0°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab: 工程部

Test Type: TYPE C

Temperature: 27°

Operator:

Gamma Plane (°):0.0-180.0:1.0

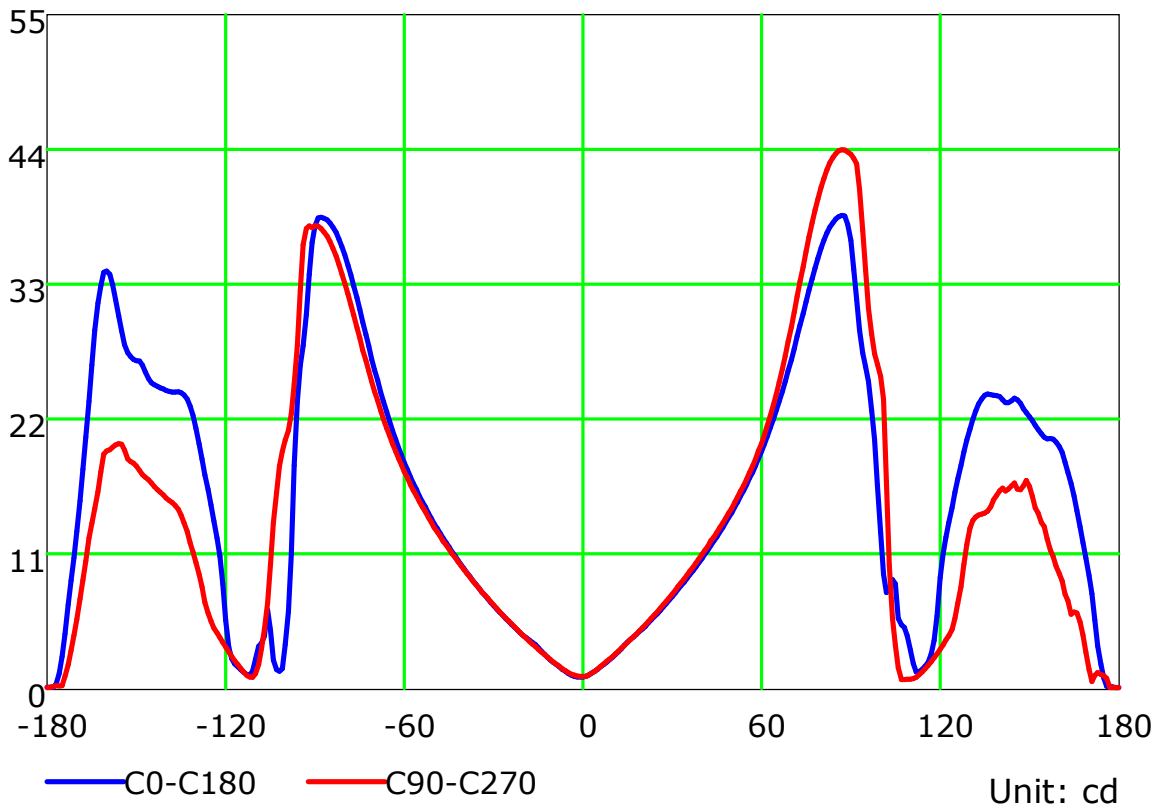
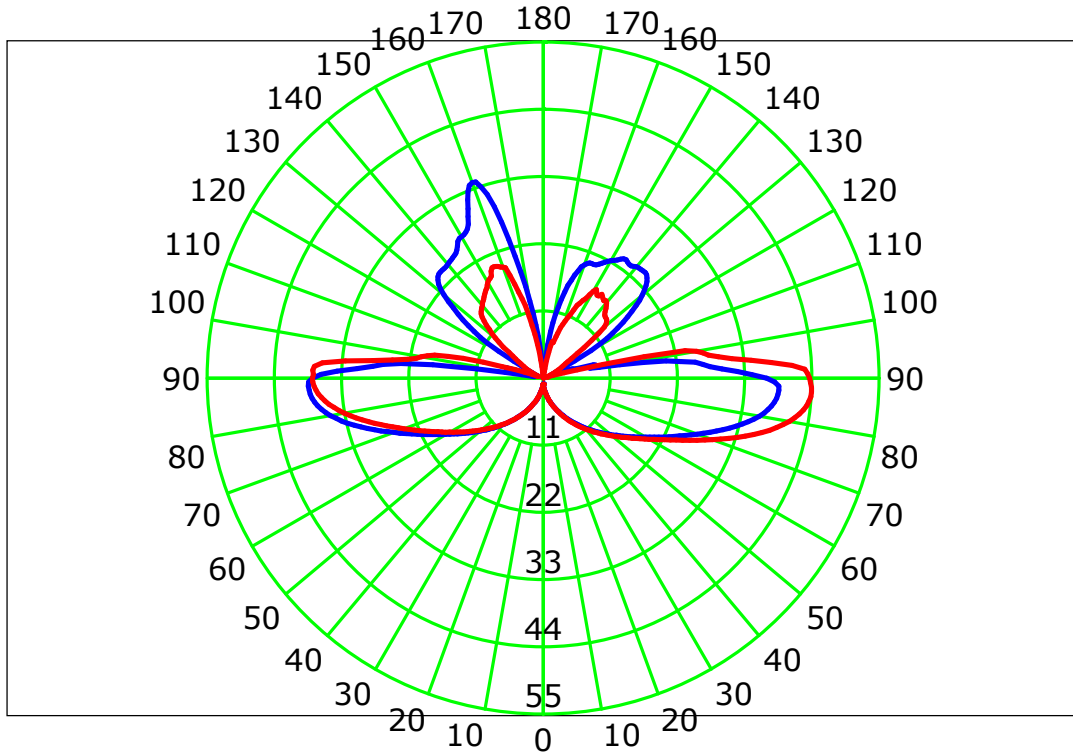
Test Device: GPM-1600L

Distance: 7.943 m [K=1.0000]

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0
Test Lab: 工程部
Test Type: TYPE C
Temperature: 27°
Operator:

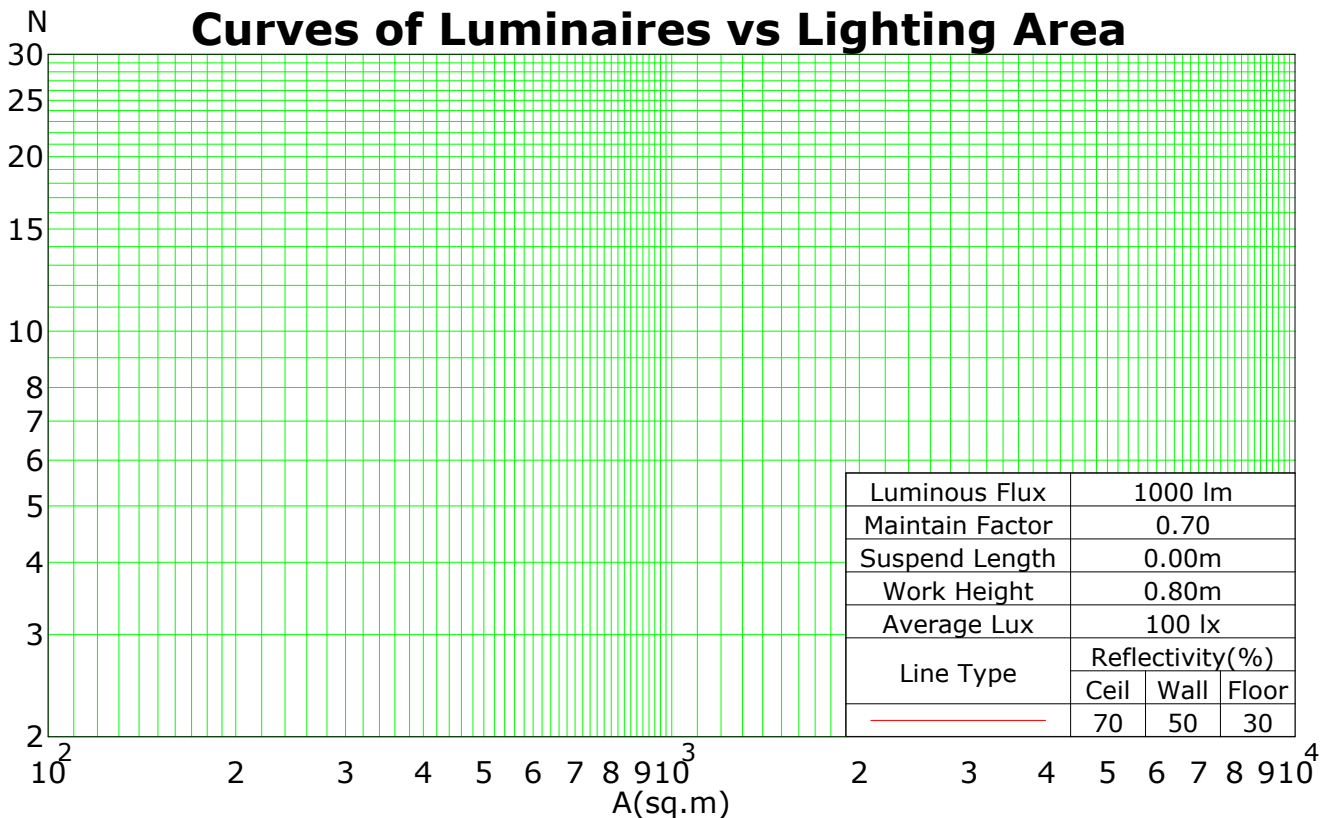
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 7.943 m [K=1.0000]
Humidity:
Inspector:

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	1.09	1.09	1.09	1.09	1.02	1.02	1.02	1.02	0.88	0.88	0.88	0.76	0.76	0.76	0.64	0.64	0.64	0.59
1	0.90	0.82	0.75	0.68	0.83	0.76	0.69	0.63	0.64	0.58	0.53	0.52	0.48	0.44	0.42	0.39	0.36	0.30
2	0.79	0.67	0.57	0.49	0.72	0.62	0.53	0.45	0.51	0.44	0.38	0.41	0.36	0.31	0.33	0.28	0.24	0.19
3	0.71	0.57	0.46	0.38	0.64	0.52	0.42	0.35	0.43	0.35	0.29	0.34	0.28	0.23	0.27	0.22	0.17	0.13
4	0.64	0.49	0.38	0.30	0.58	0.45	0.35	0.27	0.37	0.29	0.23	0.29	0.23	0.18	0.23	0.18	0.13	0.09
5	0.58	0.43	0.32	0.24	0.53	0.39	0.30	0.22	0.32	0.24	0.18	0.26	0.19	0.14	0.20	0.15	0.11	0.07
6	0.53	0.38	0.28	0.20	0.48	0.35	0.25	0.19	0.29	0.21	0.15	0.23	0.17	0.12	0.18	0.13	0.09	0.05
7	0.49	0.34	0.24	0.17	0.44	0.31	0.22	0.16	0.26	0.18	0.13	0.21	0.15	0.10	0.16	0.11	0.07	0.04
8	0.45	0.30	0.21	0.15	0.41	0.28	0.19	0.14	0.23	0.16	0.11	0.19	0.13	0.09	0.15	0.10	0.06	0.04
9	0.42	0.28	0.19	0.13	0.38	0.25	0.17	0.12	0.21	0.14	0.10	0.17	0.11	0.07	0.13	0.09	0.05	0.03
10	0.39	0.25	0.17	0.11	0.36	0.23	0.15	0.10	0.19	0.13	0.08	0.16	0.10	0.06	0.12	0.08	0.05	0.02

Spacing Criteria (0-180): 7.85
 Spacing Criteria (90-270): 7.81
 Spacing Criteria (Diagonal): 7.34

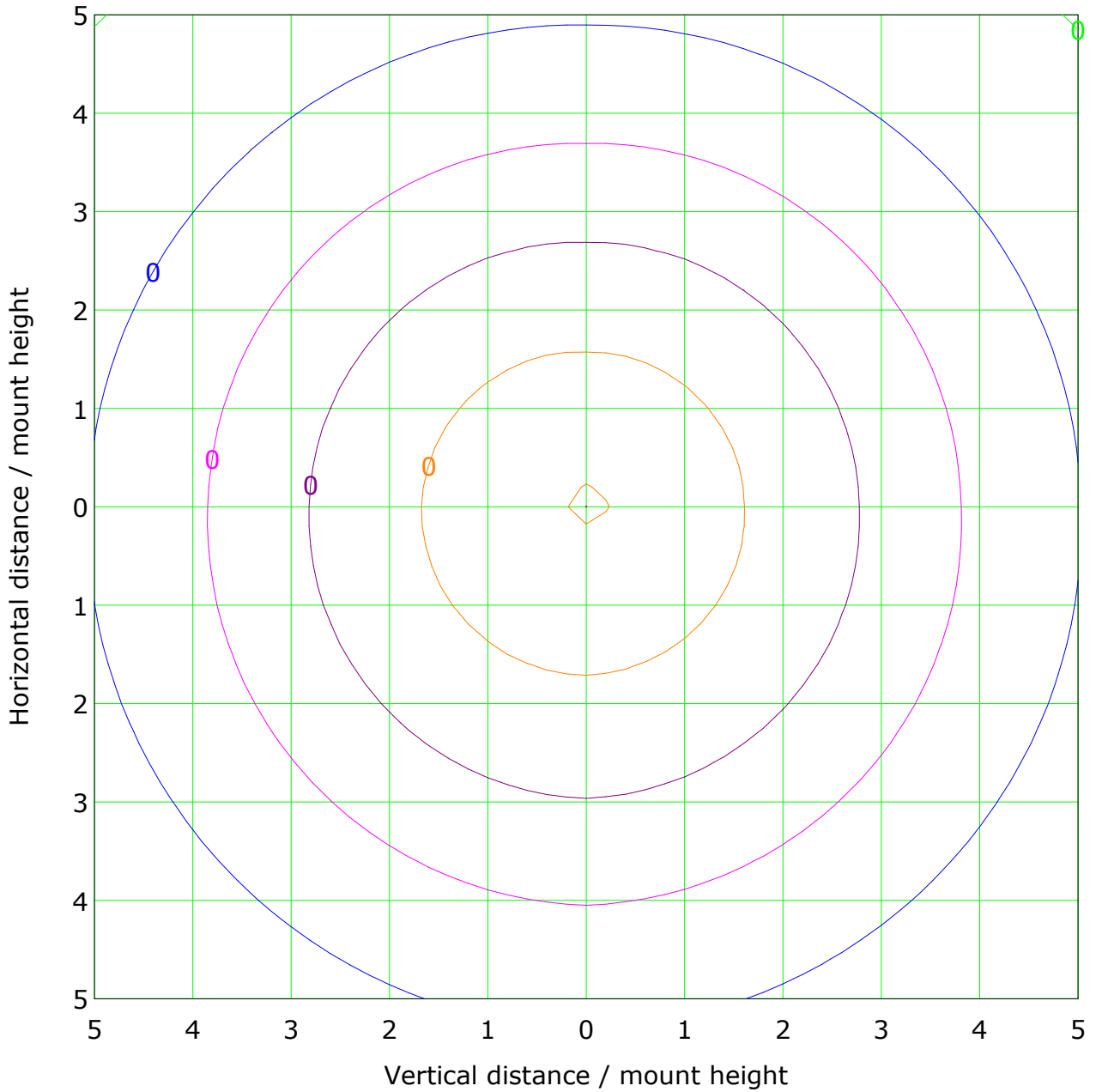
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 90.0
 Test Lab: 工程部
 Test Type: TYPE C
 Temperature: 27°
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 7.943 m [K=1.0000]
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.1 lx

(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.0 lx	(10%): 0.0 lx
(20%): 0.0 lx	(50%): 0.0 lx
(100%): 0.1 lx	

C Plane (°):0.0-360.0: 90.0

Test Lab: 工程部

Test Type: TYPE C

Temperature: 27°

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 7.943 m [K=1.0000]

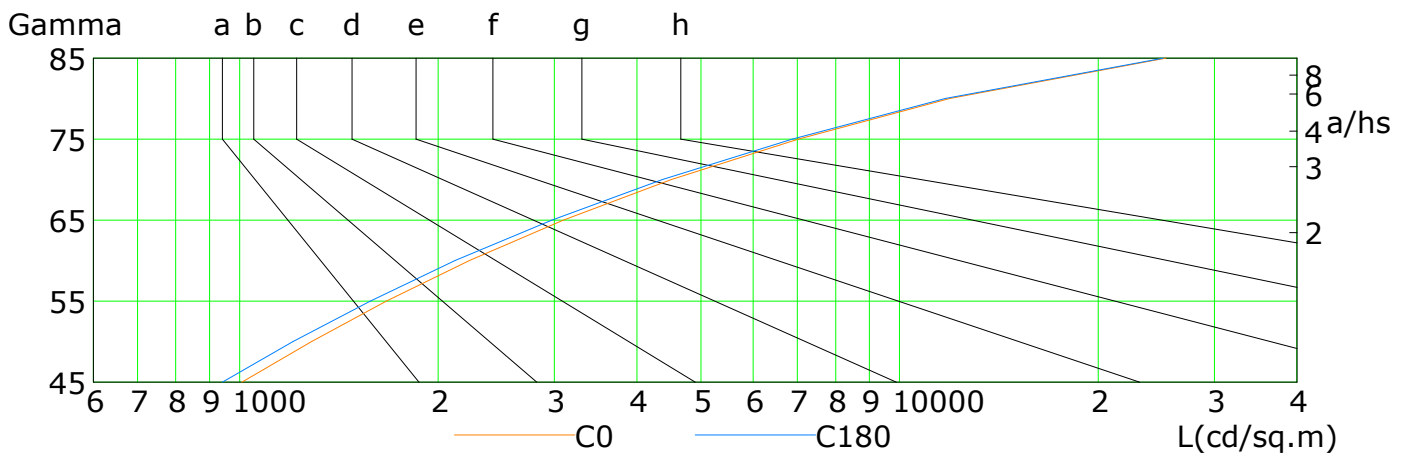
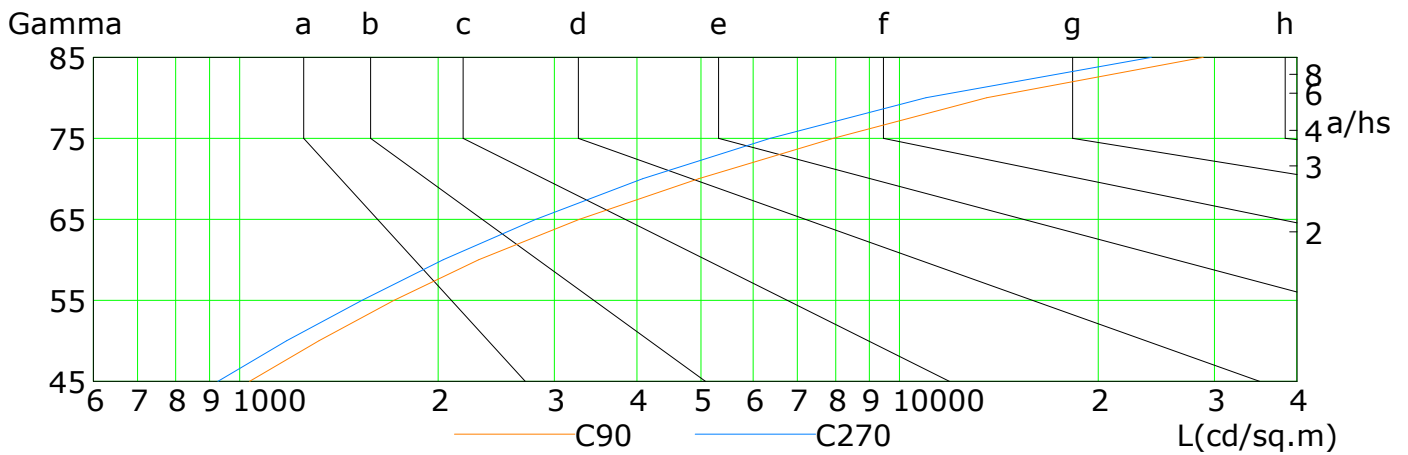
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A								
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

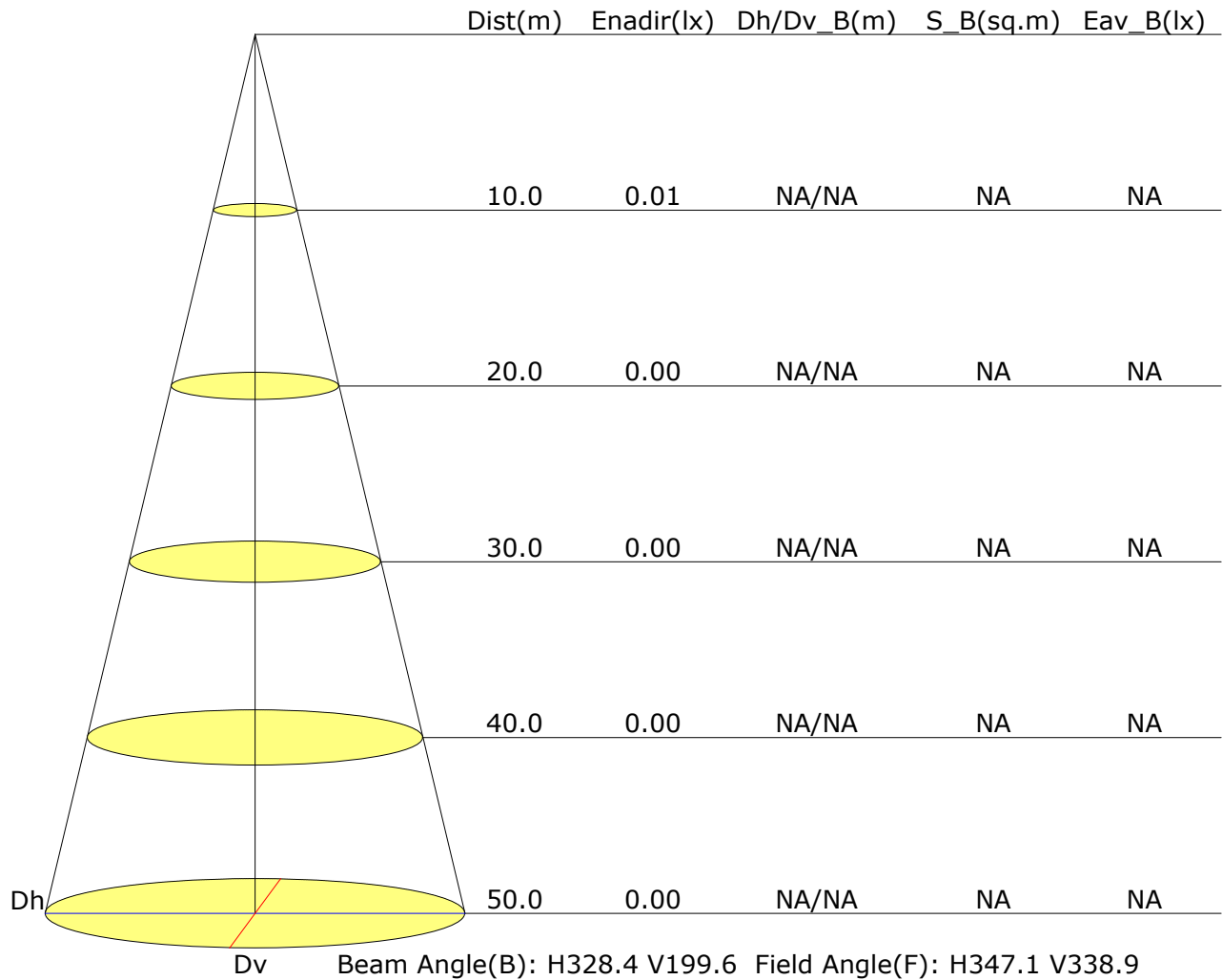


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1008	1286	1668	2230	3093	4512	7023	11914	25309
C90	1036	1319	1713	2303	3271	4960	7932	13563	28841
C180	941	1205	1578	2121	2973	4376	6878	11732	25095
C270	927	1179	1532	2036	2811	4080	6362	10966	24088

C Plane (°):0.0-360.0: 90.0
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Test Type: TYPE C
Temperature: 27°
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 7.943 m [K=1.0000]
Humidity:
Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0

Test Lab: 工程部

Test Type: TYPE C

Temperature: 27°

Operator:

Gamma Plane (°):0.0-180.0:1.0

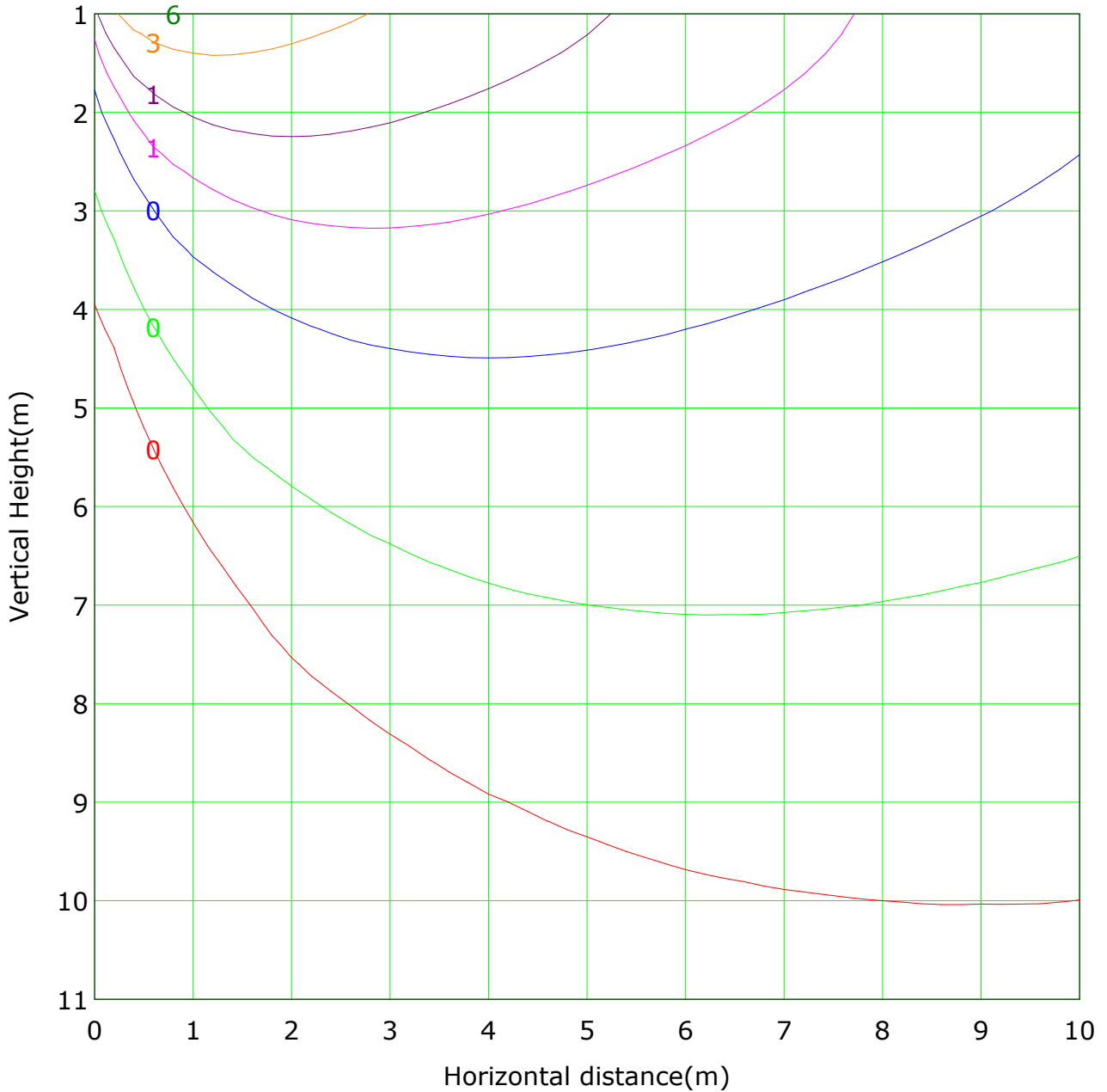
Test Device: GPM-1600L

Distance: 7.943 m [K=1.0000]

Humidity:

Inspector:

Vertical IsoLux Plot

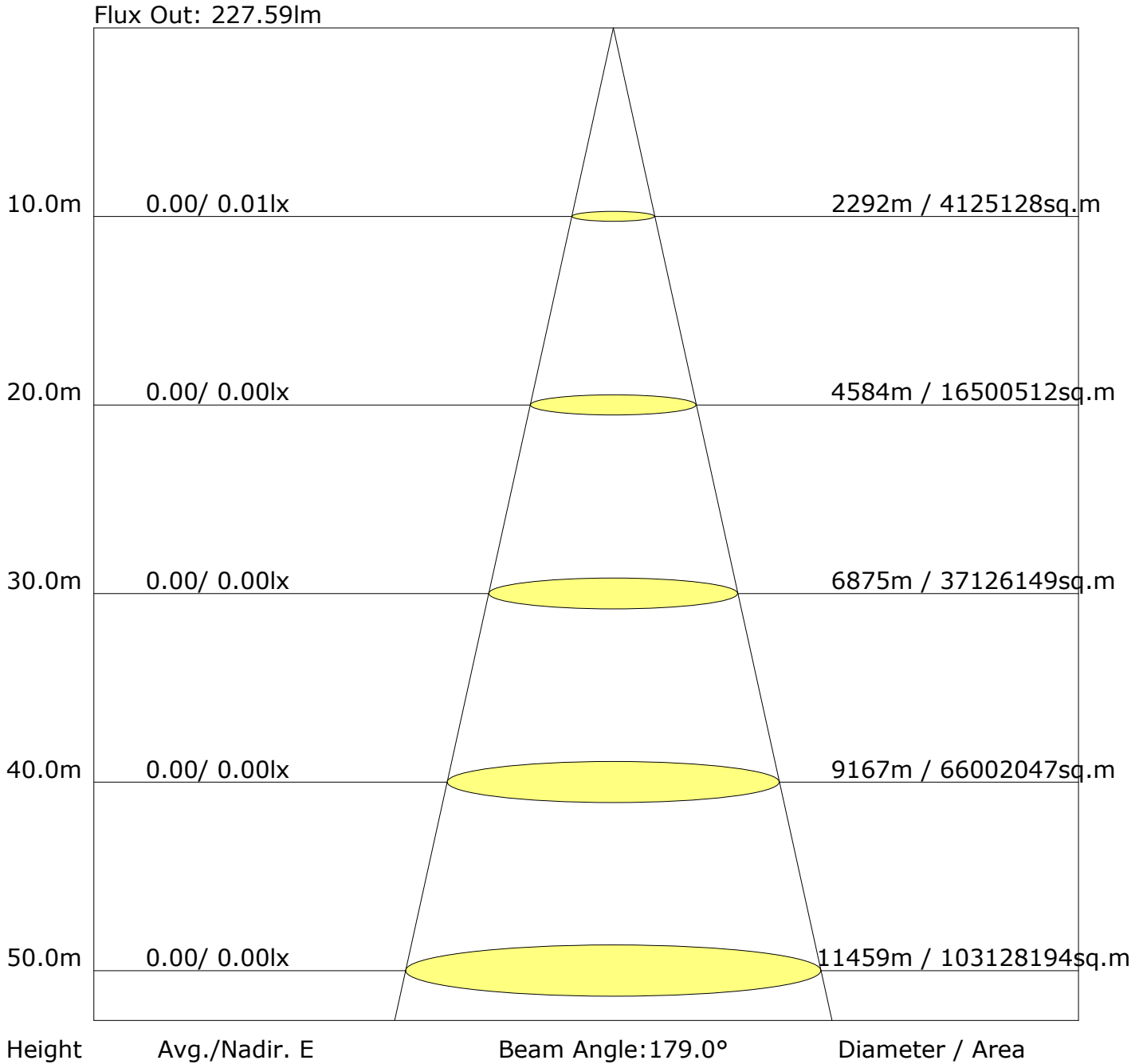


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 6.3 lx
(1%): 0.1 lx	(2%): 0.1 lx	(10%): 0.6 lx
(5%): 0.3 lx	(20%): 1.3 lx	(50%): 3.2 lx
(100%): 6.3 lx		

C Plane (°):0.0-360.0: 90.0
Test Lab: 工程部
Test Type: TYPE C
Temperature: 27°
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 7.943 m [K=1.0000]
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
Test Lab: 工程部
Test Type: TYPE C
Temperature: 27°
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 7.943 m [K=1.0000]
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	11.6	12.7	12.4	13.6	14.7	11.5	12.6	12.3	13.5	14.6
3H	16.4	17.5	17.2	18.4	19.5	16.4	17.5	17.2	18.4	19.5
4H	19.2	20.2	20.1	21.1	22.3	19.3	20.3	20.1	21.2	22.3
6H	22.2	23.2	23.1	24.1	25.2	22.4	23.3	23.2	24.2	25.4
8H	23.8	24.7	24.7	25.7	26.8	24.0	24.9	24.9	25.8	27.0
12H	25.5	26.4	26.4	27.3	28.5	25.7	26.6	26.6	27.5	28.7
X=4H Y=2H	13.1	14.2	14.0	15.0	16.2	13.1	14.1	13.9	15.0	16.1
3H	17.9	18.8	18.8	19.8	20.9	17.9	18.9	18.8	19.8	20.9
4H	20.8	21.6	21.7	22.6	23.7	20.8	21.7	21.7	22.6	23.8
6H	23.9	24.6	24.8	25.6	26.8	24.0	24.8	24.9	25.7	26.9
8H	25.5	26.2	26.4	27.2	28.4	25.7	26.4	26.6	27.3	28.6
12H	27.3	27.9	28.2	28.9	30.1	27.5	28.2	28.4	29.1	30.3
X=8H Y=4H	21.9	22.6	22.8	23.6	24.8	21.9	22.6	22.8	23.6	24.8
6H	25.2	25.8	26.1	26.7	28.0	25.3	25.9	26.2	26.8	28.1
8H	26.9	27.5	27.9	28.5	29.7	27.1	27.6	28.0	28.6	29.9
12H	28.9	29.4	29.8	30.4	31.6	29.1	29.6	30.0	30.6	31.8
X=12H Y=4H	22.3	22.9	23.2	23.9	25.1	22.3	22.9	23.2	23.9	25.1
6H	25.6	26.2	26.6	27.1	28.4	25.7	26.3	26.6	27.2	28.5
8H	27.5	28.0	28.4	29.0	30.2	27.6	28.1	28.6	29.1	30.4
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.5					+0.5/-0.6				
S=1.5H	+0.8/-0.9					+0.8/-1.0				
S=2.0H	+1.0/-1.4					+1.1/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 228lm ($8\log(F/F_0) = -5.1$).

C Plane (°):0.0-360.0: 90.0
 Test Lab: 工程部
 Test Type: TYPE C
 Temperature: 27°
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 7.943 m [K=1.0000]
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	70	30.6
	FL (0°-30°)	2	0.9
	FM (30°-60°)	15	6.8
	FH (60°-80°)	30	13.1
	FVH (80°-90°)	22	9.9
	BACK LIGHT	64	28.1
	BL (0°-30°)	2	0.9
	BM (30°-60°)	15	6.4
	BH (60°-80°)	27	11.9
	BVH (80°-90°)	20	9.0
	UP LIGHT	94	41.3
	UL (90°-100°)	32	14.0
	UH (100°-180°)	62	27.3
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U2 G1

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