

Report No.:

Test Time: 2026-01-17 08:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 3000K

Number of Lamps:

Luminous Length (mm): 1500

Luminous Height (mm): 27

Current: 0.1920 A

Power Factor: 0.9470

Luminaire Description: X系列1.5米线条灯

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 130

Voltage: 231.80 V

Power: 42.24 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4900 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H92.8

Vertical Diffuse Angle(50%): V86.7

Luminous Efficacy (lm/w): 116.00

Max. Intensity: 465.29 cd/klm

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 4900.0 lm

Efficiency: 100%

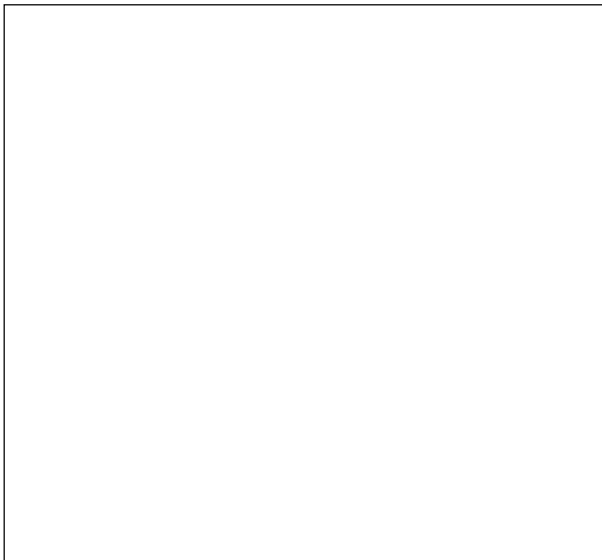
Upward Ratio: 0%

C0r0 Intensity: 462.75 cd/klm

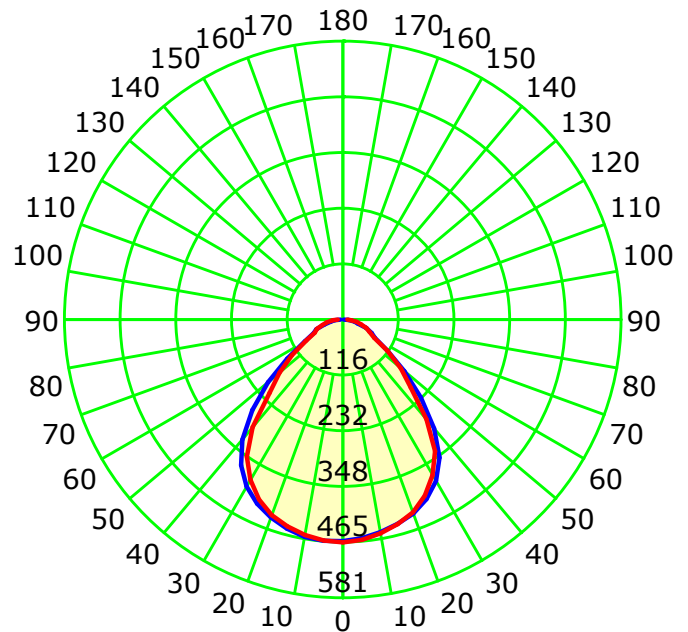
Pos of Max. Intensity: H90 V0

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 89.8°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:5.0

Test Device: GPM-1600L

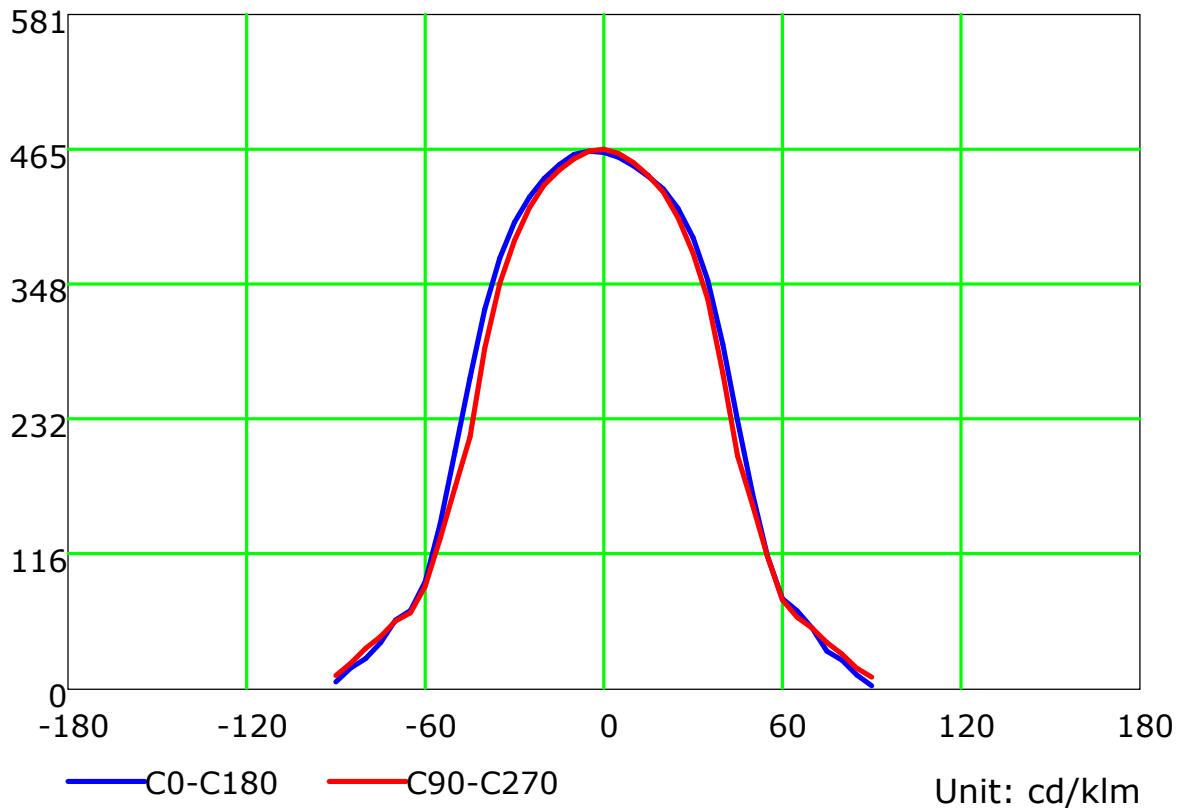
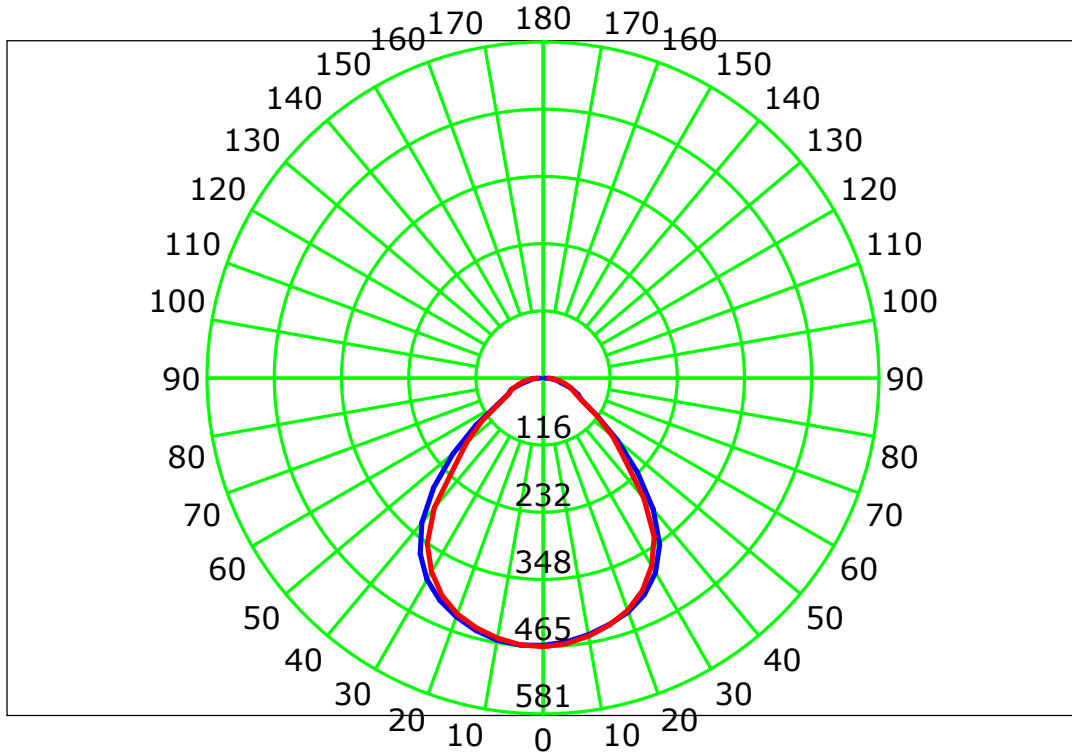
Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



Luminous Intensity Distribution Curve

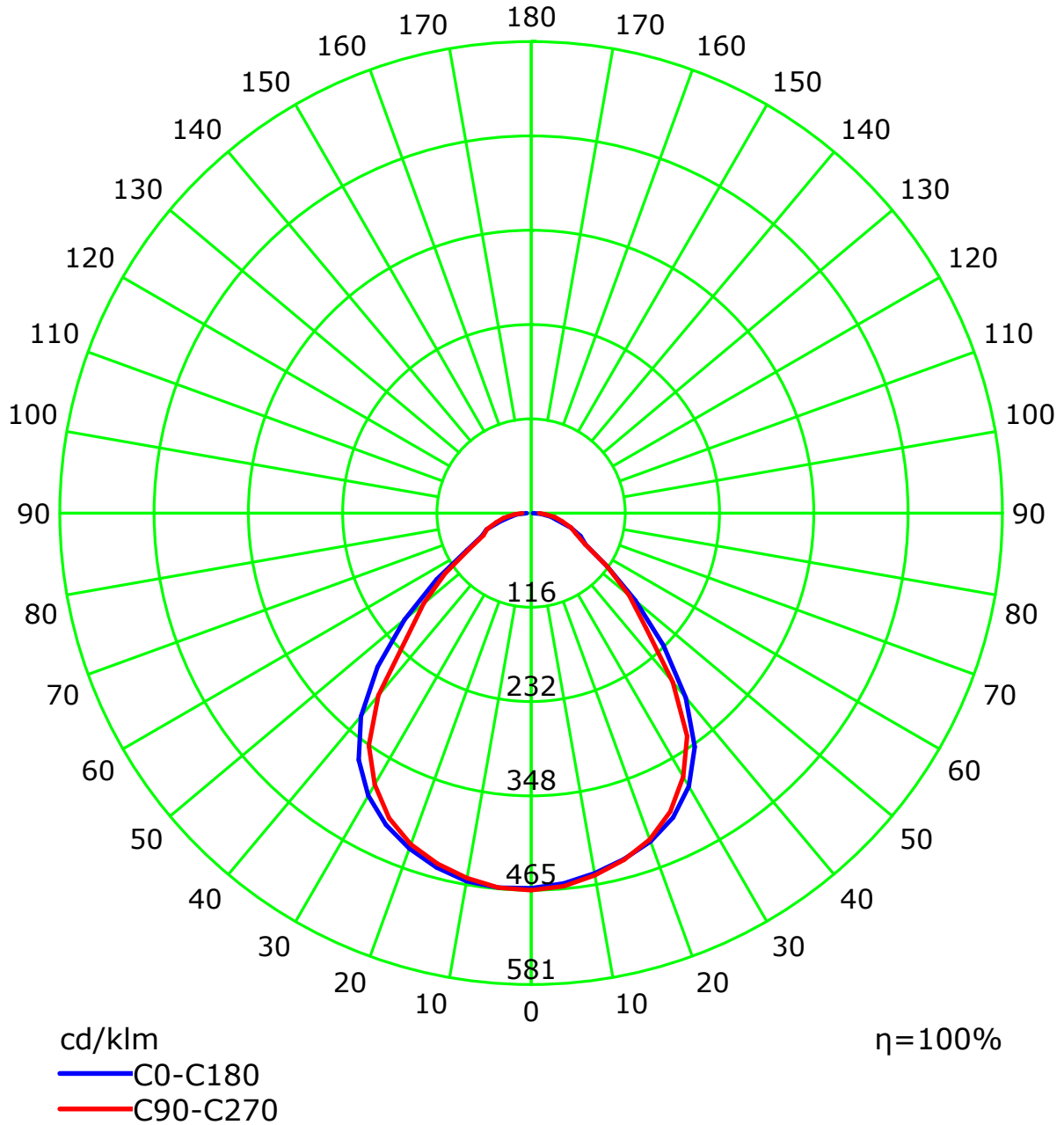


C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:



Luminous Intensity Distribution Curve(cd/klm)



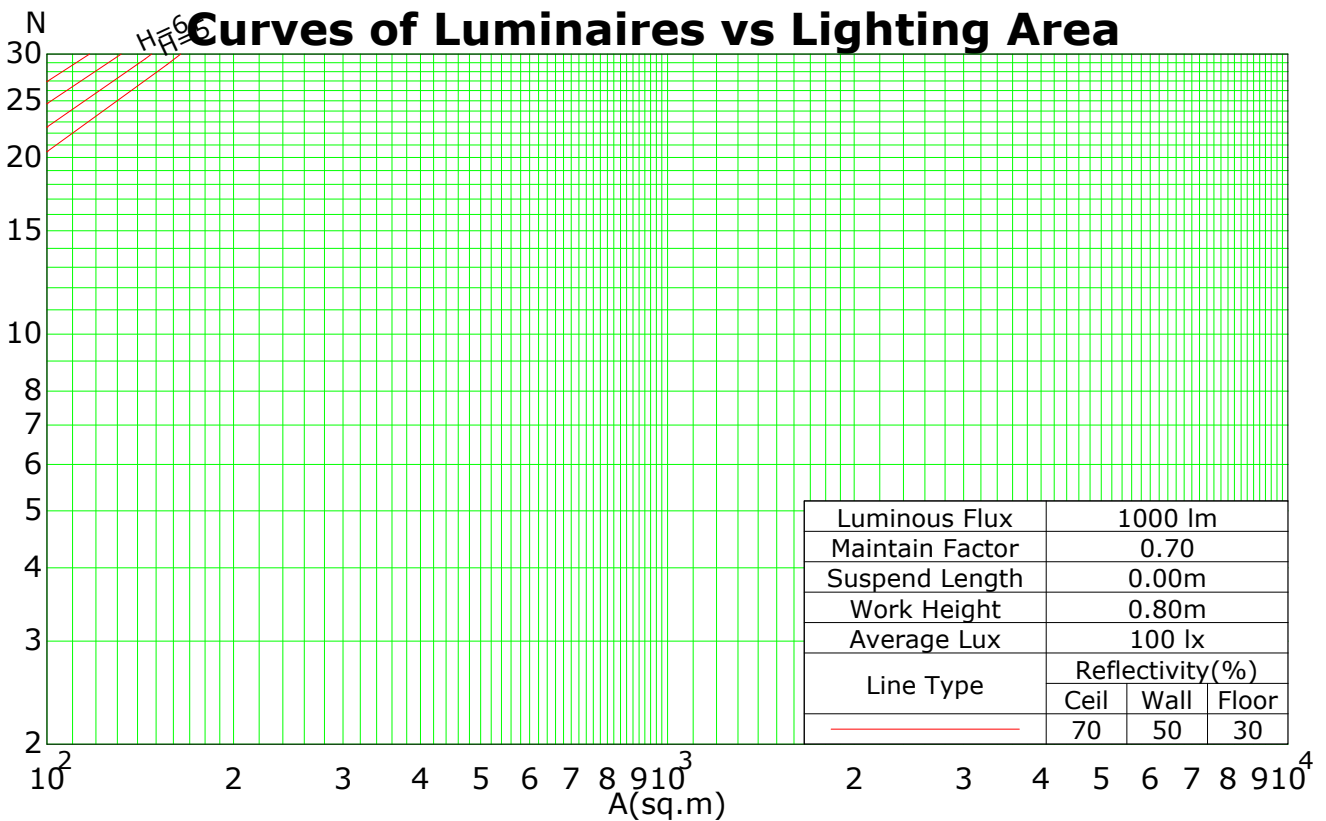
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.06	1.02	0.99	1.07	1.04	1.00	0.97	0.99	0.97	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	1.01	0.94	0.88	0.83	0.99	0.92	0.87	0.82	0.89	0.84	0.80	0.86	0.82	0.78	0.83	0.79	0.77	0.75
3	0.94	0.84	0.77	0.71	0.91	0.83	0.76	0.71	0.80	0.74	0.69	0.77	0.72	0.68	0.75	0.71	0.67	0.65
4	0.87	0.76	0.68	0.62	0.84	0.74	0.67	0.61	0.72	0.66	0.61	0.70	0.64	0.60	0.68	0.63	0.59	0.57
5	0.80	0.69	0.60	0.54	0.78	0.67	0.60	0.54	0.65	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
6	0.75	0.62	0.54	0.48	0.73	0.61	0.54	0.48	0.60	0.53	0.48	0.58	0.52	0.47	0.57	0.51	0.47	0.45
7	0.70	0.57	0.49	0.43	0.68	0.56	0.49	0.43	0.55	0.48	0.43	0.53	0.47	0.43	0.52	0.47	0.42	0.40
8	0.65	0.52	0.45	0.39	0.64	0.52	0.44	0.39	0.51	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.38	0.37
9	0.61	0.48	0.41	0.36	0.60	0.48	0.40	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33
10	0.57	0.45	0.37	0.32	0.56	0.44	0.37	0.32	0.43	0.37	0.32	0.43	0.36	0.32	0.42	0.36	0.32	0.30

Spacing Criteria (0-180): 1.26
 Spacing Criteria (90-270): 1.21
 Spacing Criteria (Diagonal): 1.25

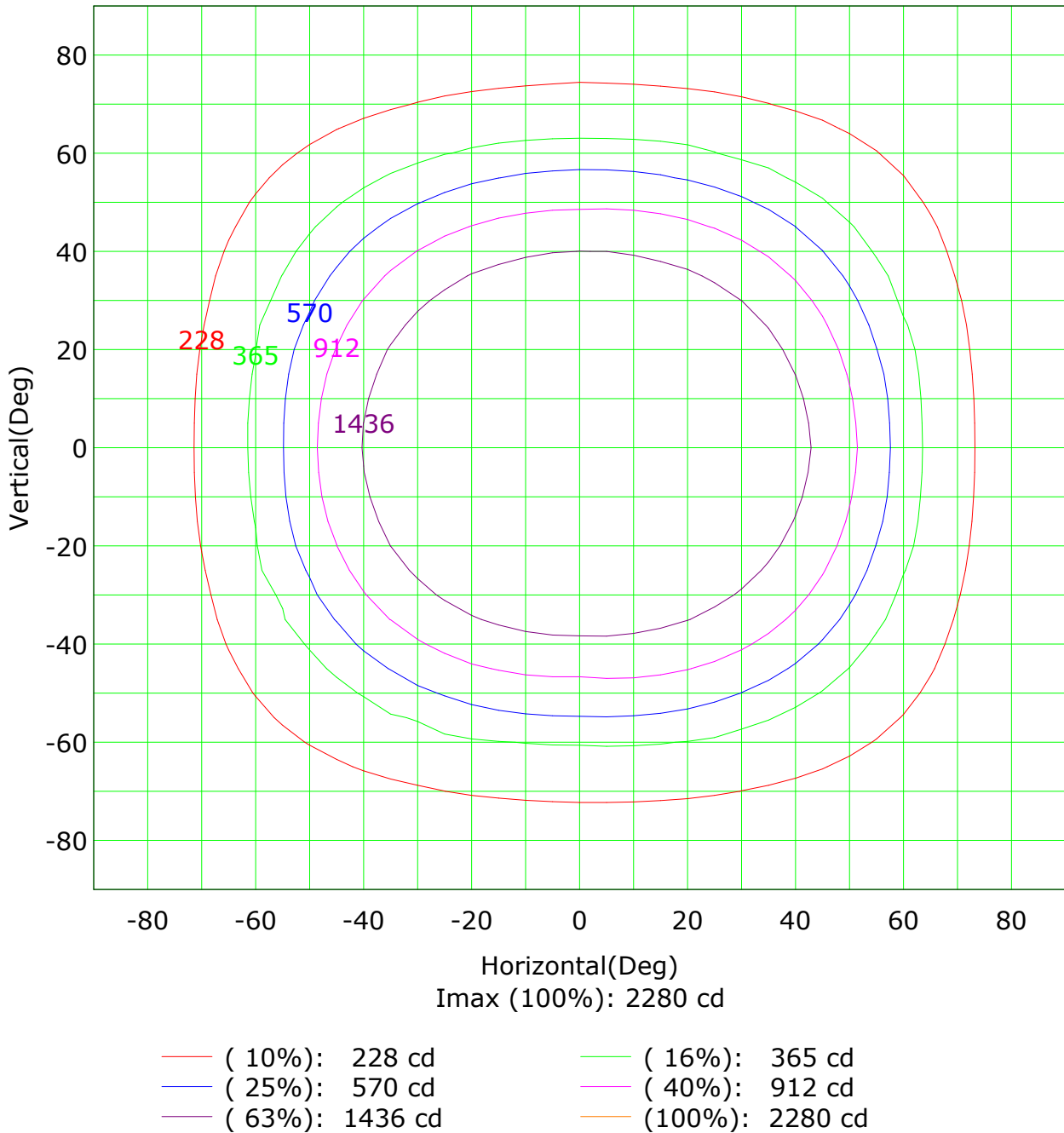


C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



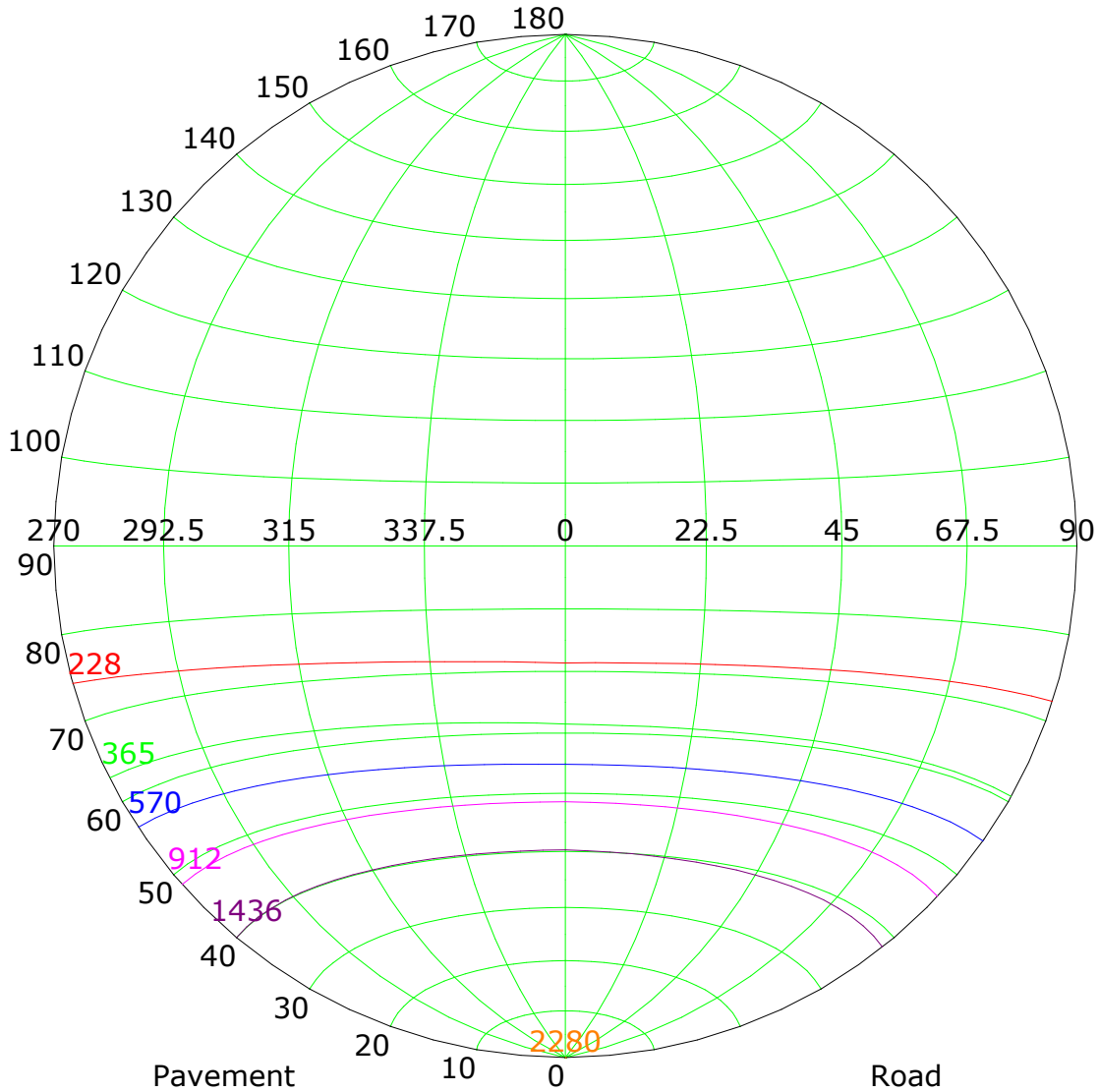
Isocandela (rectangle)



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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 2280 cd

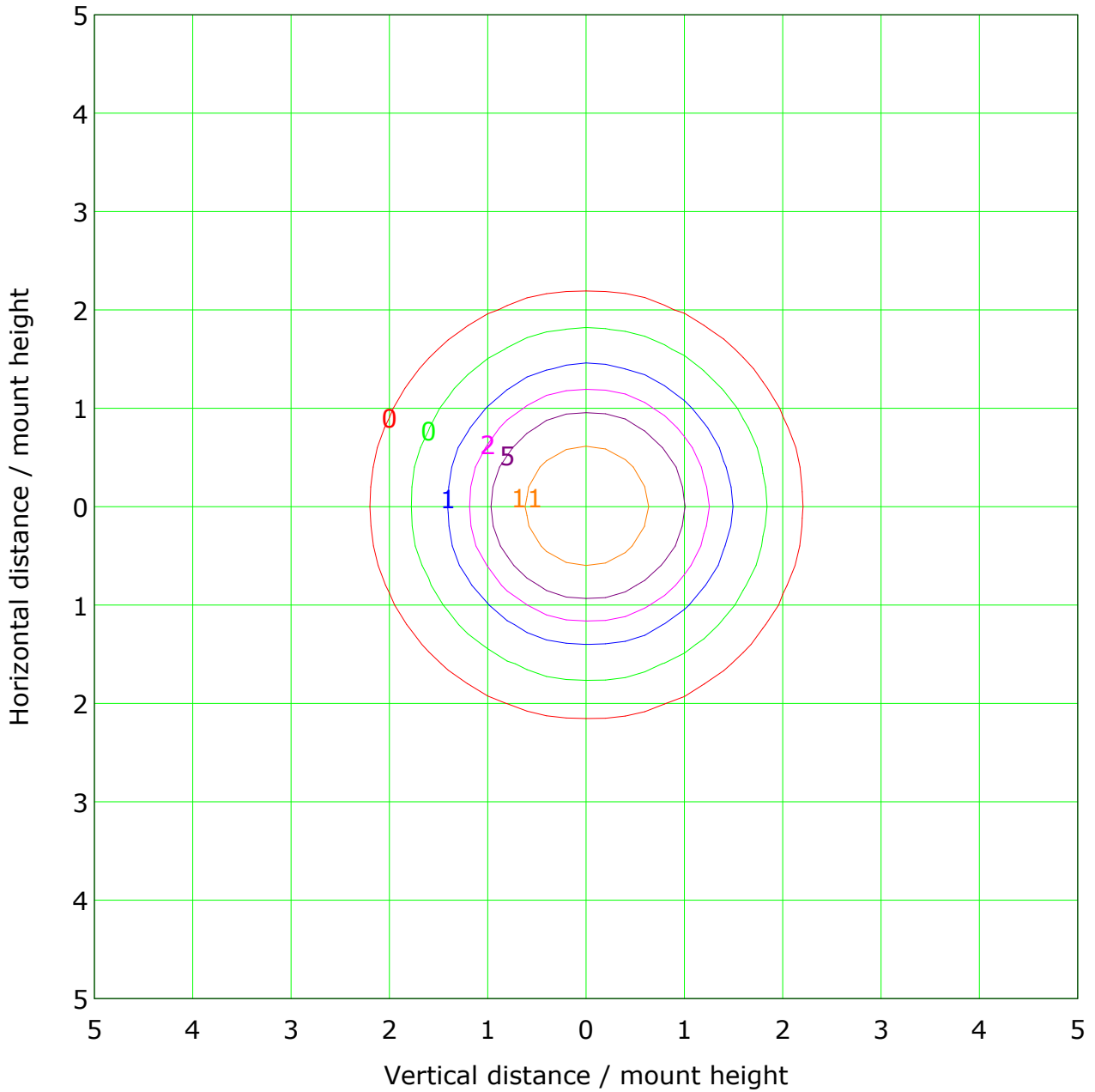
- | | |
|-------------------|-------------------|
| — (10%): 228 cd | — (16%): 365 cd |
| — (25%): 570 cd | — (40%): 912 cd |
| — (63%): 1436 cd | — (100%): 2280 cd |

CIE: narrow - short
 CIE: Semi-cut-off luminaire
 Max.At90: 10.612 cd/klm

IES: Cut-off
 Max.At80: 87.993 cd/klm
 Max.80-90: 2964696076199373800000000000.00



IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 22.8 lx

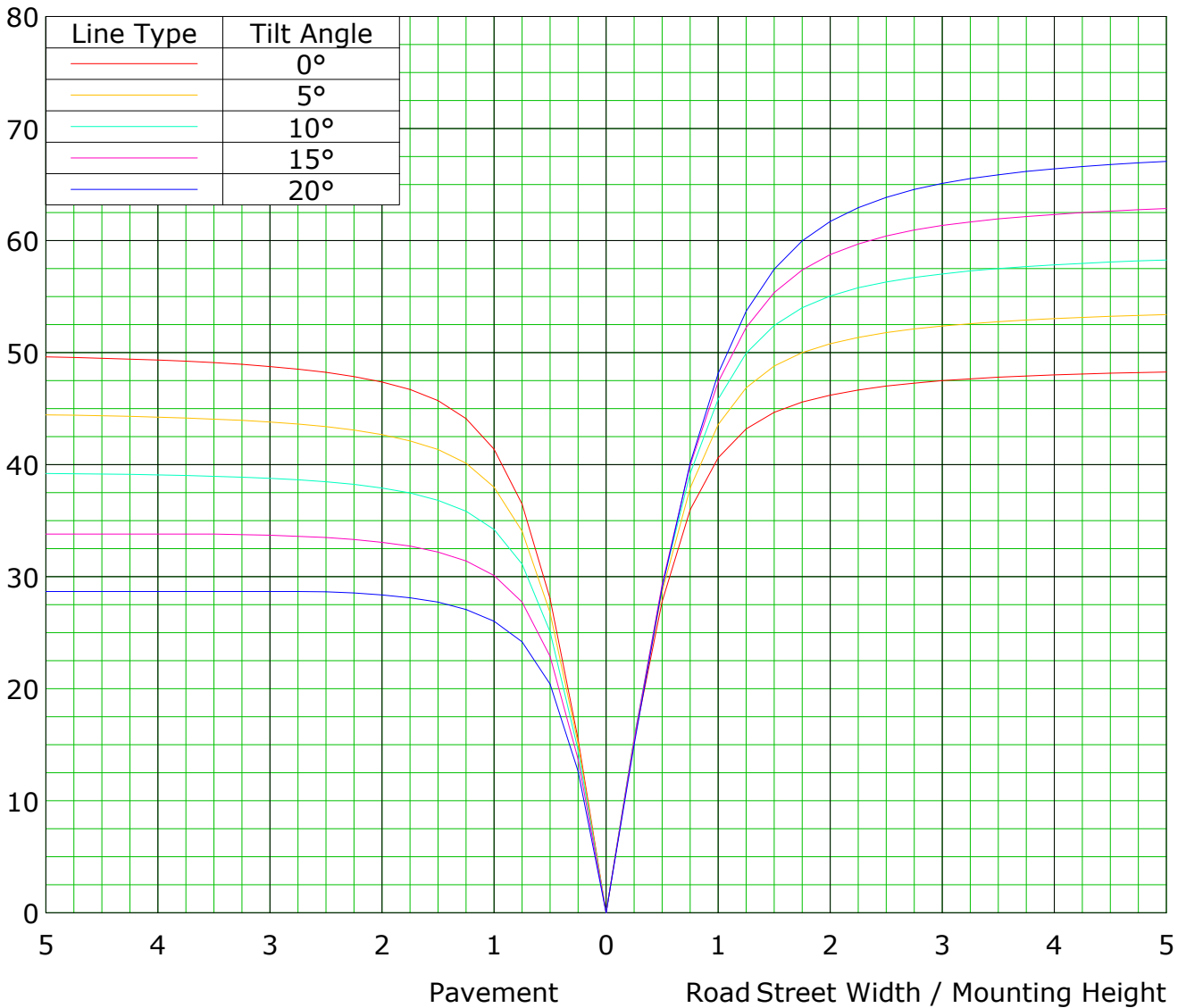
— (1%): 0.2 lx	— (2%): 0.5 lx
— (5%): 1.1 lx	— (10%): 2.3 lx
— (20%): 4.6 lx	— (50%): 11.4 lx
— (100%): 22.8 lx	

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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



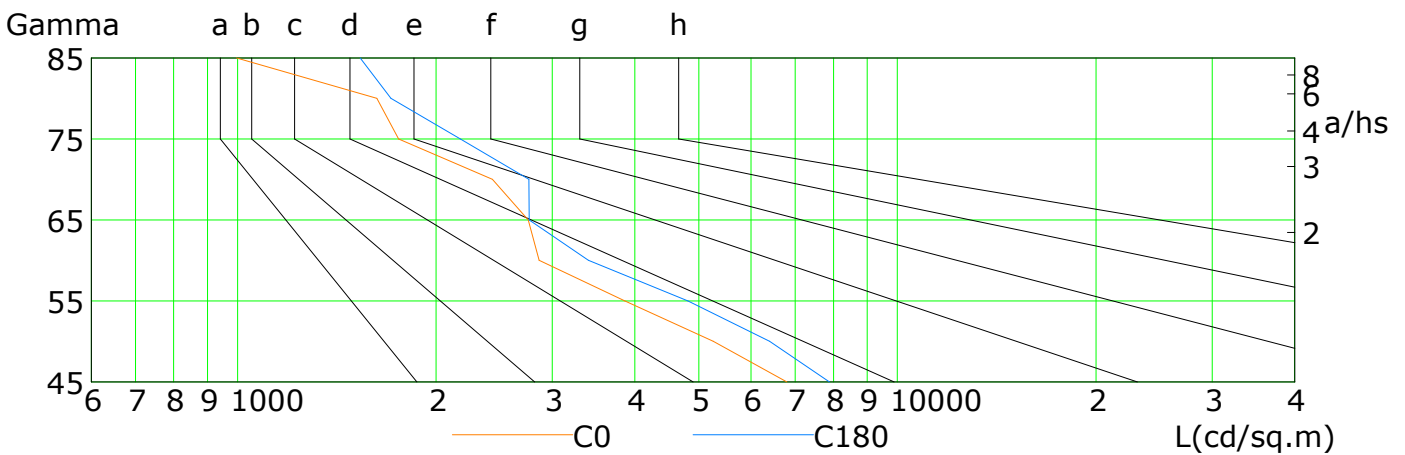
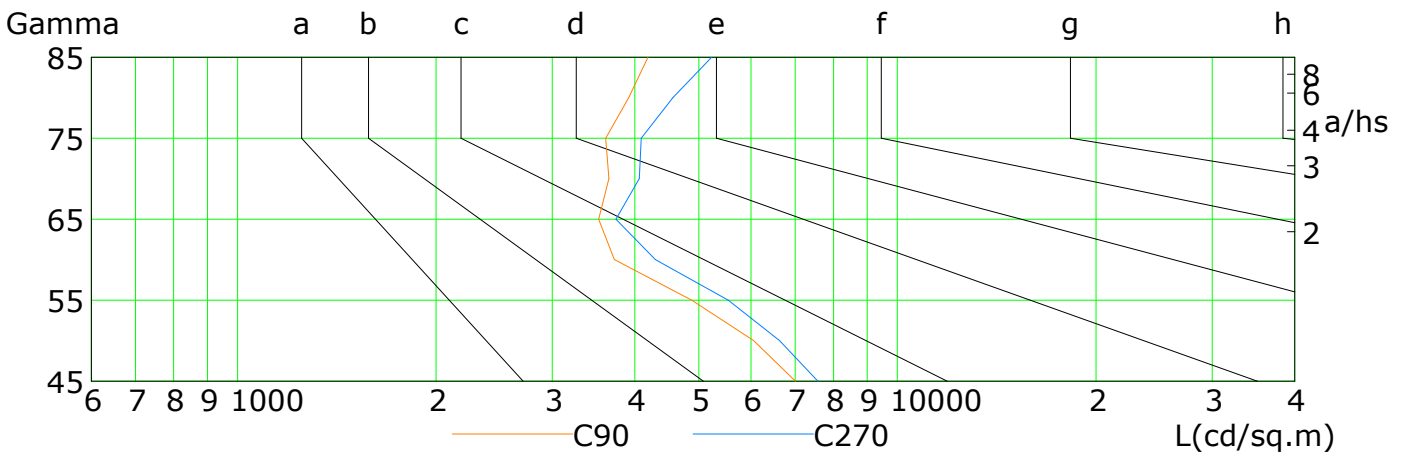
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Lum Limit Curve

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

a b c d e f g h

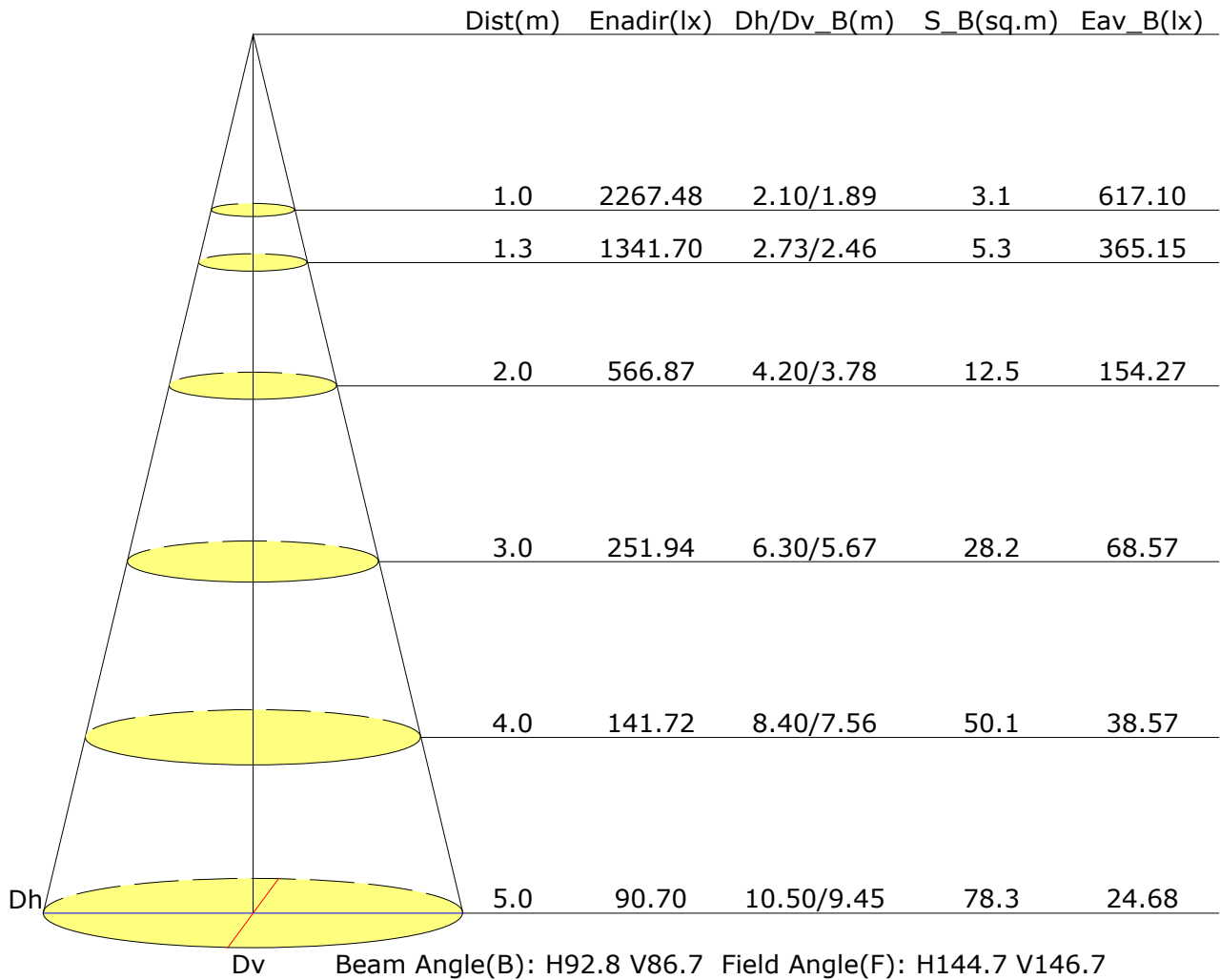


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6800	5260	3865	2863	2759	2432	1753	1626	997
C90	7006	6050	4878	3723	3527	3656	3615	3917	4187
C180	7892	6401	4817	3402	2767	2763	2176	1708	1534
C270	7580	6630	5545	4297	3745	4064	4092	4570	5229

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

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Illuminance at a Distance

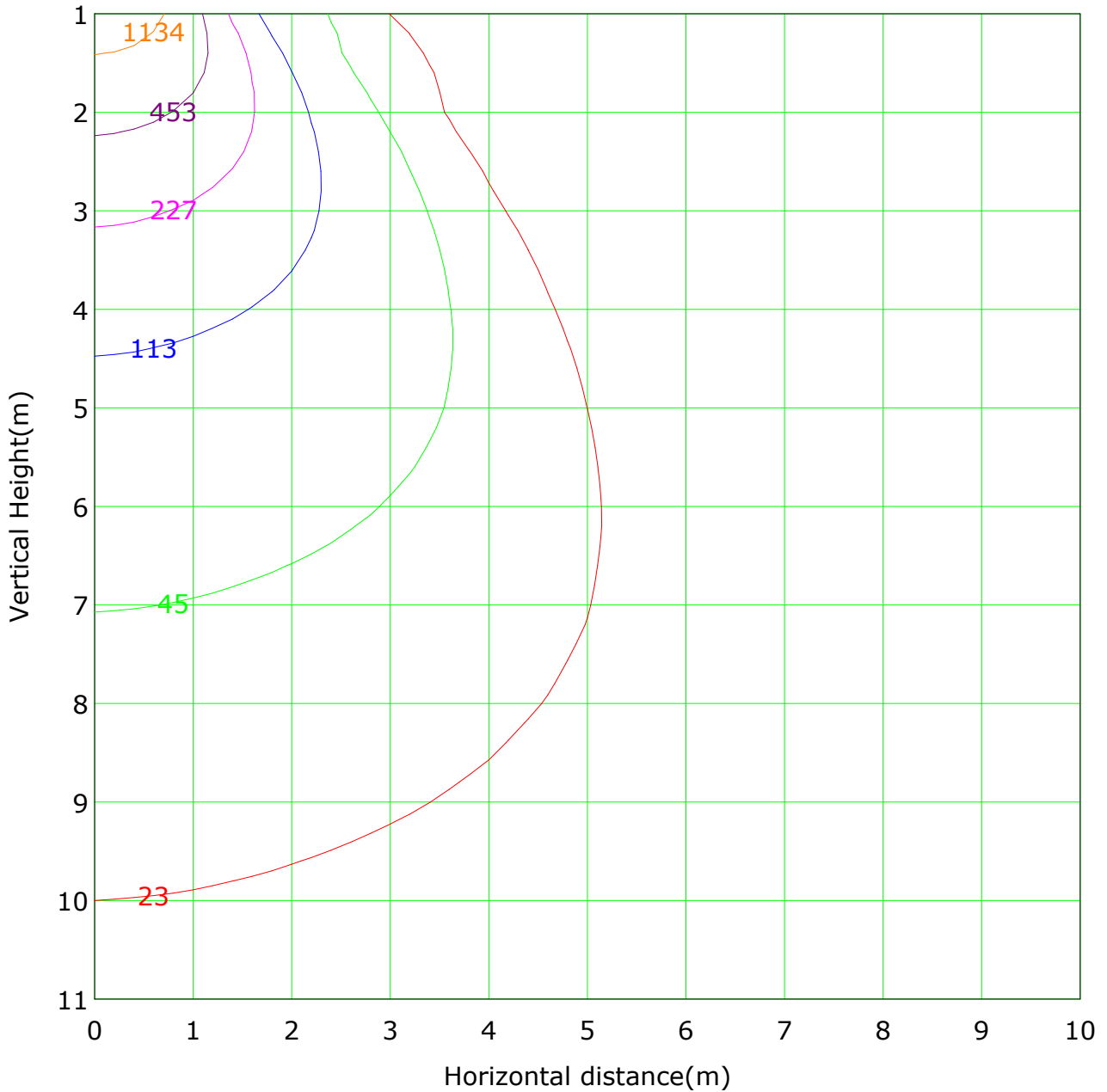


C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2267.5 lx
 (1%): 22.7 lx (2%): 45.3 lx
 (5%): 113.4 lx (10%): 226.7 lx
 (20%): 453.5 lx (50%): 1133.7 lx
 (100%): 2267.5 lx

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

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



Area Flux Table

Unit: lm/klm

-90	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.0	6.0	0.0	
-80	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.4	1.4	1.3	1.1	0.9	0.6	0.4	0.2	0.1	0.0	12.2	2.8	
-70	0.0	0.2	0.4	0.7	1.1	1.4	1.7	2.0	2.1	2.1	1.9	1.7	1.4	1.0	0.6	0.4	0.1	0.0	18.8	15.5	
-60	0.0	0.2	0.5	1.0	1.4	2.0	2.9	3.6	3.9	3.9	3.4	2.7	1.9	1.4	0.9	0.4	0.2	0.0	30.4	28.8	
-50	0.0	0.2	0.6	1.2	2.0	3.5	5.0	6.2	6.8	6.7	6.0	4.7	3.2	1.9	1.1	0.6	0.2	0.0	50.1	49.1	
-40	0.0	0.3	0.7	1.5	3.1	5.3	7.7	9.5	10.4	10.3	9.3	7.3	4.8	2.7	1.3	0.7	0.2	0.0	75.4	74.6	
-30	0.1	0.3	0.8	1.9	4.2	7.2	9.9	11.6	12.5	12.4	11.5	9.6	6.6	3.7	1.6	0.8	0.3	0.0	94.9	94.4	
-20	0.1	0.3	0.9	2.3	5.1	8.5	11.1	12.7	13.5	13.4	12.6	10.8	8.0	4.5	1.9	0.8	0.3	0.0	106.6	106.1	
-10	0.1	0.3	0.9	2.5	5.7	9.1	11.6	13.2	14.0	13.9	12.9	11.3	8.6	4.9	2.1	0.9	0.3	0.0	112.1	111.6	
0	0.1	0.3	0.9	2.5	5.6	9.0	11.5	13.1	13.9	13.8	12.9	11.3	8.6	4.9	2.1	0.9	0.3	0.0	111.8	111.3	
10	0.1	0.3	0.9	2.3	5.1	8.4	11.0	12.6	13.4	13.3	12.5	10.7	7.9	4.4	1.9	0.8	0.3	0.0	105.6	105.1	
20	0.1	0.3	0.8	1.8	4.1	7.0	9.7	11.4	12.2	12.2	11.3	9.4	6.5	3.6	1.6	0.8	0.3	0.0	93.1	92.5	
30	0.0	0.3	0.7	1.4	3.0	5.2	7.4	9.2	10.0	9.9	8.9	7.0	4.7	2.6	1.3	0.7	0.2	0.0	72.5	71.8	
40	0.0	0.2	0.6	1.1	2.0	3.3	4.8	5.9	6.3	6.3	5.6	4.4	3.0	1.8	1.1	0.6	0.2	0.0	47.2	46.2	
50	0.0	0.2	0.5	0.9	1.4	1.9	2.6	3.2	3.5	3.5	3.1	2.5	1.8	1.3	0.9	0.4	0.2	0.0	28.0	26.3	
60	0.0	0.2	0.4	0.7	1.0	1.4	1.6	1.8	1.9	1.9	1.8	1.6	1.3	0.9	0.6	0.3	0.1	0.0	17.6	13.9	
70	0.0	0.1	0.3	0.4	0.6	0.8	1.0	1.2	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	11.1	1.2	
80	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	5.2	0.0	
90	0.7	4.0	10.6	23.1	46.8	75.8	101.6	119.6	128.3	127.4	117.2	97.9	70.6	41.3	20.2	9.6	3.4	0.5	999		
Flux(T)	0.0	0.7	7.7	20.4	44.0	73.1	98.8	116.8	125.4	124.5	114.4	95.1	67.8	38.5	17.3	6.5	0.2	0.0		951	
Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

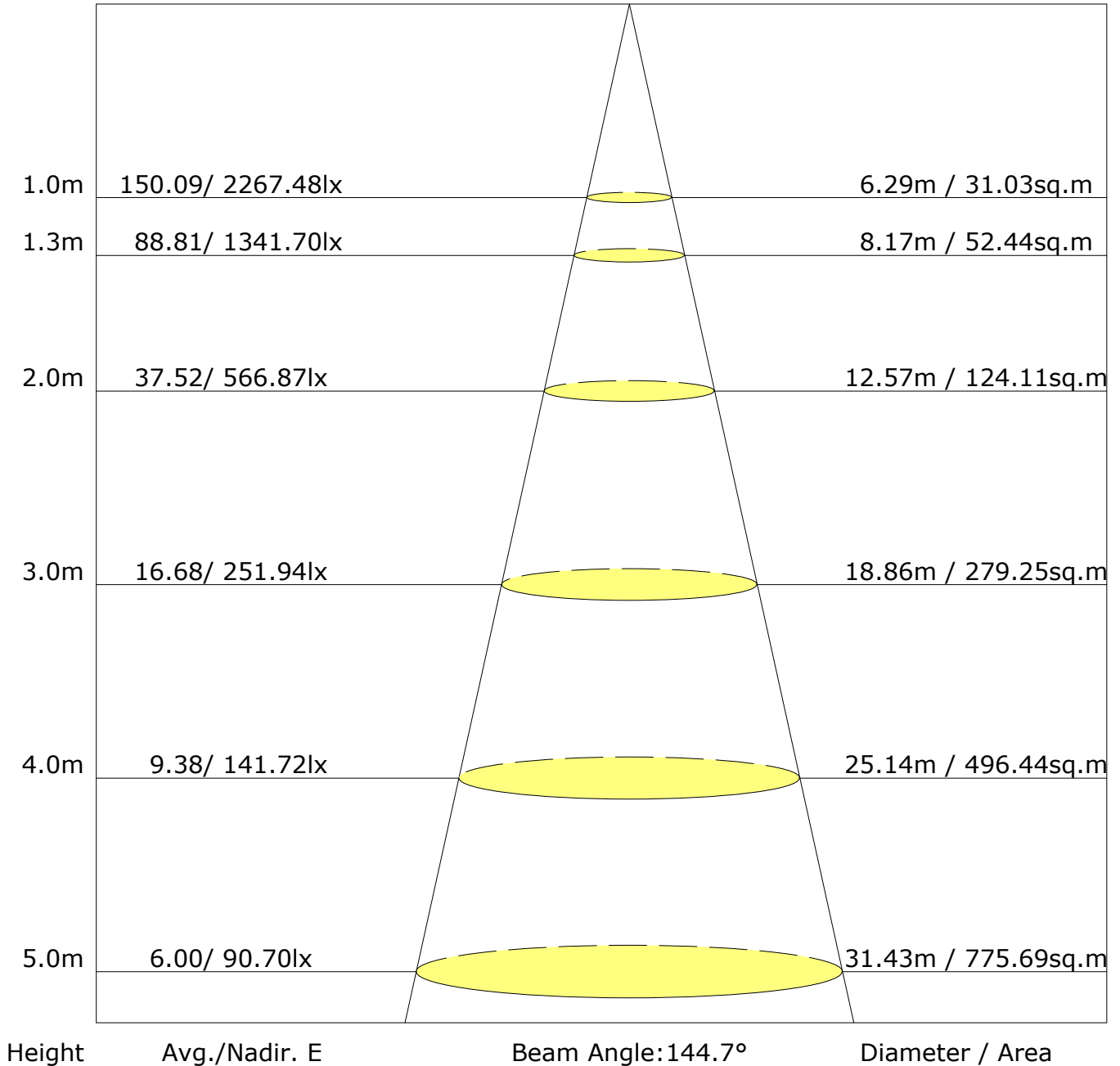
Gamma Plane (°): 0.0-90.0: 5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

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



The Average Illuminance Effective Figure

Flux Out: 4656.93lm



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

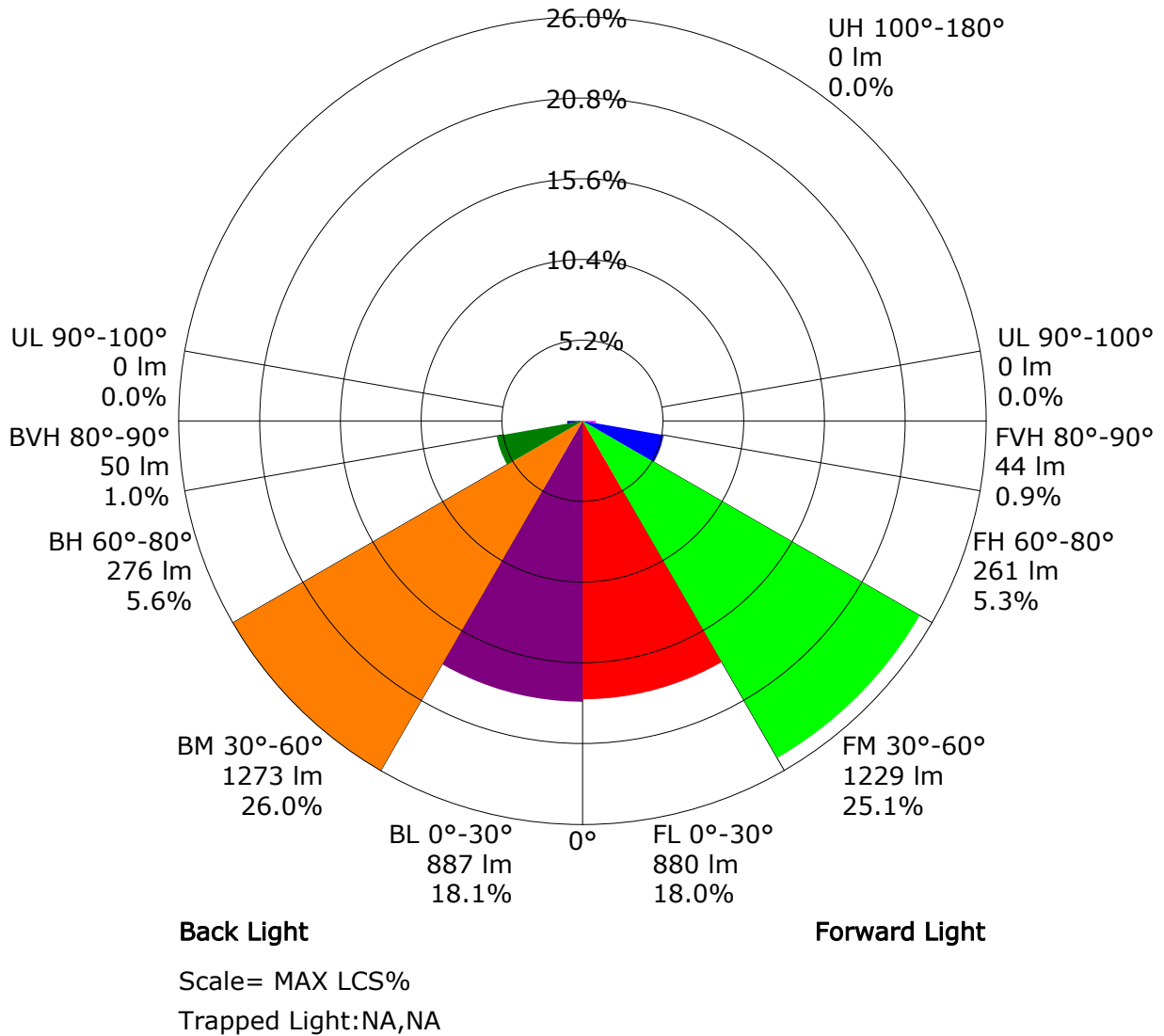
Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

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	16.8	18.0	17.1	18.3	18.5	17.2	18.4	17.5	18.7	18.9
3H	17.5	18.7	17.9	18.9	19.2	18.1	19.3	18.4	19.5	19.8
4H	17.8	18.9	18.1	19.2	19.4	18.6	19.7	19.0	20.0	20.3
6H	18.0	19.0	18.4	19.3	19.6	19.2	20.2	19.5	20.5	20.8
8H	18.1	19.1	18.5	19.4	19.7	19.5	20.4	19.8	20.7	21.0
12H	18.1	19.1	18.5	19.4	19.7	19.7	20.6	20.1	20.9	21.3
X=4H Y=2H	17.1	18.2	17.4	18.4	18.7	17.4	18.5	17.8	18.8	19.1
3H	18.1	19.0	18.4	19.3	19.6	18.6	19.5	19.0	19.8	20.2
4H	18.4	19.3	18.8	19.6	20.0	19.3	20.1	19.7	20.4	20.8
6H	18.8	19.5	19.2	19.9	20.3	20.0	20.7	20.4	21.1	21.5
8H	18.9	19.6	19.4	20.0	20.4	20.3	21.0	20.7	21.4	21.8
12H	19.0	19.6	19.5	20.0	20.5	20.6	21.2	21.1	21.6	22.1
X=8H Y=4H	18.7	19.3	19.1	19.7	20.2	19.4	20.1	19.8	20.5	20.9
6H	19.2	19.7	19.6	20.1	20.6	20.3	20.8	20.7	21.2	21.7
8H	19.4	19.8	19.9	20.3	20.8	20.7	21.2	21.2	21.6	22.1
12H	19.5	19.9	20.0	20.4	20.9	21.1	21.5	21.6	22.0	22.5
X=12H Y=4H	18.7	19.3	19.2	19.7	20.2	19.4	20.0	19.9	20.4	20.9
6H	19.2	19.7	19.7	20.2	20.7	20.3	20.8	20.8	21.2	21.7
8H	19.5	19.9	20.0	20.4	20.9	20.8	21.2	21.3	21.7	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.3/-0.4				
S=1.5H	+0.9/-1.4					+0.7/-1.0				
S=2.0H	+1.9/-1.6					+1.5/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 4900lm ($8\log(F/F_0) = 5.5$).

LCS Graph



Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.66	0.75	0.81	0.86	0.92	0.96	0.99	1.03	1.05
	0.30		0.59	0.69	0.75	0.80	0.87	0.91	0.95	0.99	1.02
	0.20		0.54	0.64	0.70	0.75	0.83	0.88	0.91	0.96	0.99
0.50	0.50	0.20	0.64	0.73	0.79	0.83	0.89	0.93	0.95	0.99	1.01
	0.30		0.58	0.67	0.74	0.78	0.85	0.89	0.92	0.96	0.99
	0.20		0.54	0.63	0.69	0.74	0.81	0.86	0.89	0.93	0.96
0.30	0.50	0.20	0.63	0.71	0.77	0.81	0.86	0.90	0.92	0.95	0.97
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.89	0.93	0.95
	0.20		0.53	0.62	0.69	0.73	0.79	0.84	0.87	0.91	0.93
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.86	0.89
Rating:42W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.86	0.70	0.59	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.72	0.60	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.61	0.52	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.39	0.36	0.28	0.21	0.18	
	0.30		0.70	0.58	0.50	0.44	0.35	0.30	0.26	0.20	0.17	
	0.20		0.61	0.51	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.64	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.30		0.68	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
	0.20		0.60	0.50	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
Rating:42W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20
	0.30		0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rating:42W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Zonal Lumen (Continue 1)

cone flux(90°): 3310.55 lm

%lum = 67.6%
%lamp = 67.6%

cone flux(120°): 4268.95 lm

%lum = 87.1%
%lamp = 87.1%

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	3993.54
L 0-180(75) av	3487.44
L 0-180(85) av	4268.52
L 90-270(65) av	3776.34
L 90-270(75) av	4112.17
L 90-270(85) av	5677.14
L 45(65) av	3884.94
L 45(75) av	3799.80
L 45(85) av	4972.83

Standard: GB/T 29293-2012