

Report No.:

Test Time: 2024-05-31 10:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 5000K

Number of Lamps:

Luminous Length (mm): 90

Luminous Height (mm):

Current: 0.0290 A

Power Factor: 0.7430

Luminaire Description: RAV6FHJ21

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 90

Voltage: 231.00 V

Power: 5.01 W

Photometric Results

CIE Class: Direct

Measurement Flux: 658.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H57.2

Vertical Diffuse Angle(50%): V53.6

Luminous Efficacy (lm/w): 131.52

Max. Intensity: 581.31 cd

S/MH(C0/C180): 0.84

Total Rated Lamp Lumens: 658.9 lm

Efficiency: 100%

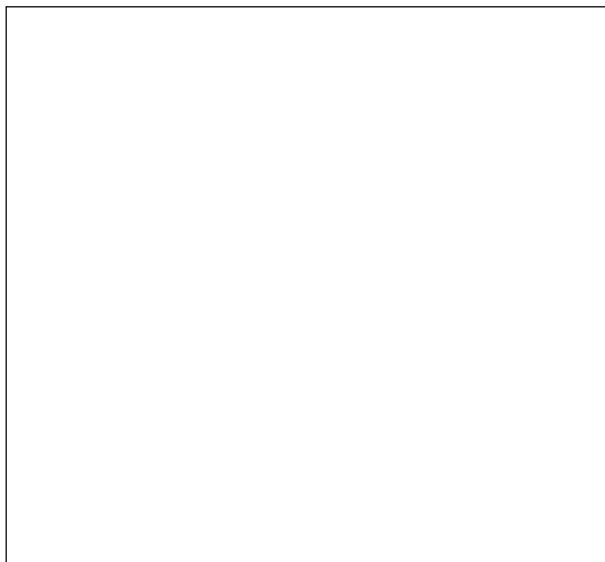
Upward Ratio: 0%

C0r0 Intensity: 580.82 cd

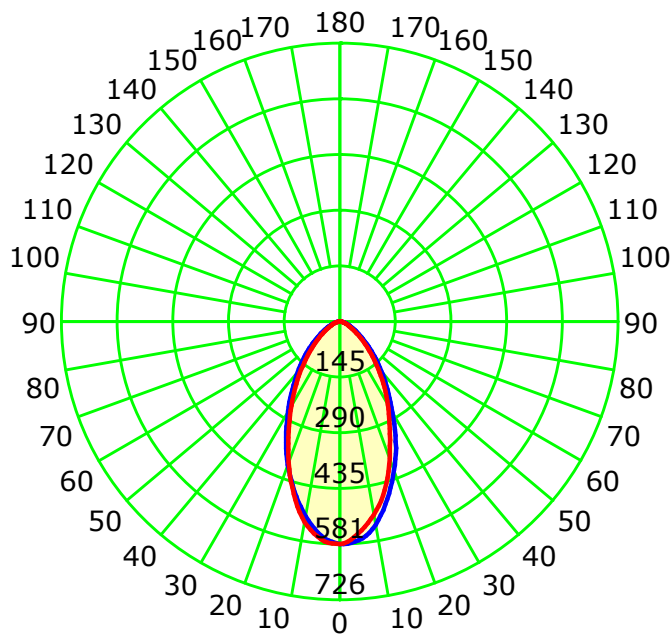
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.79

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 55.4°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

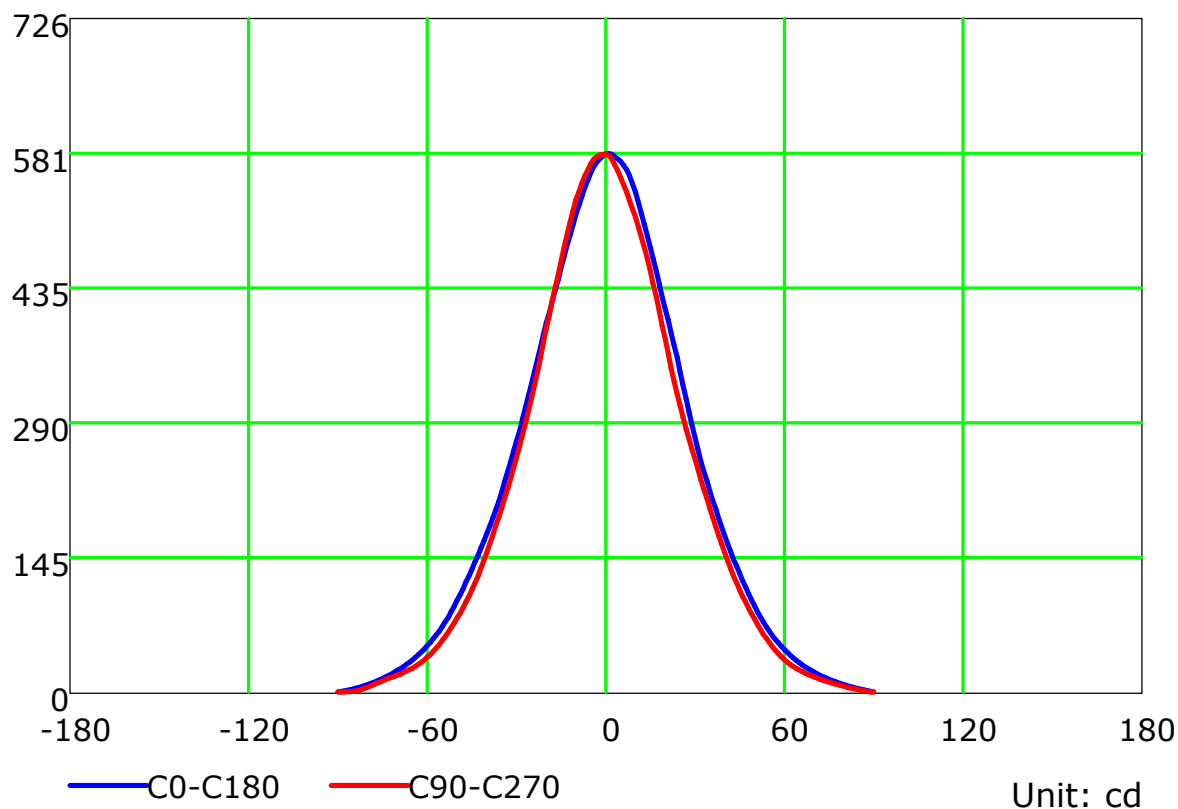
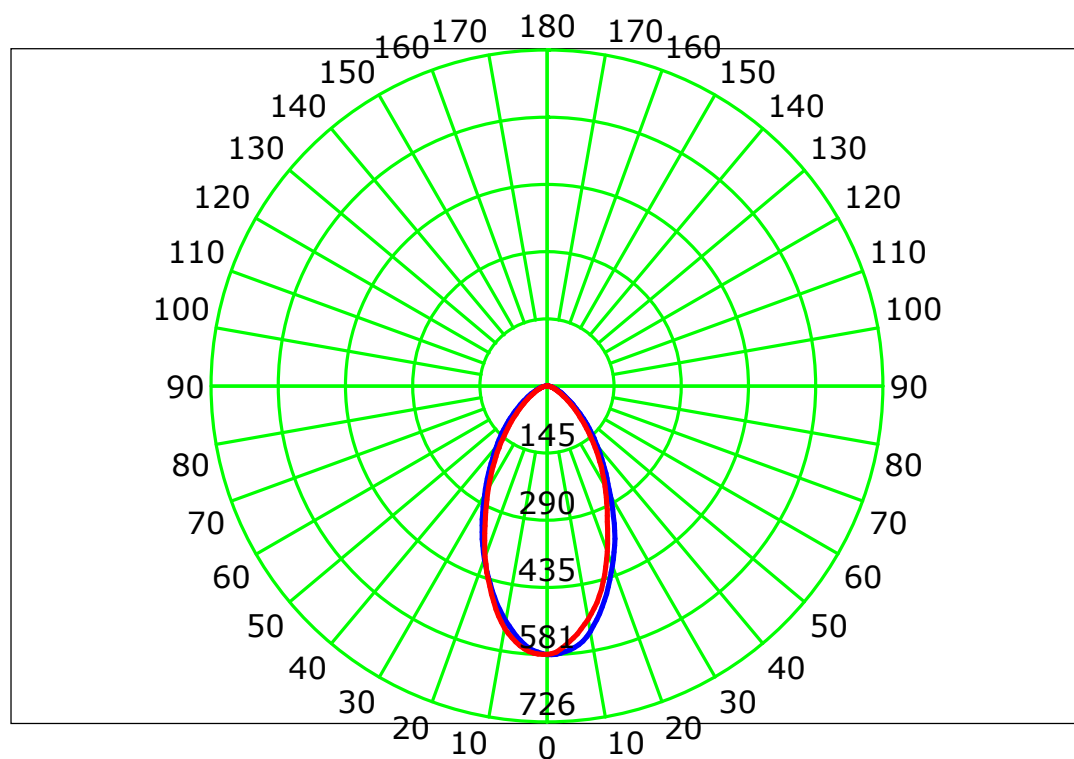
Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



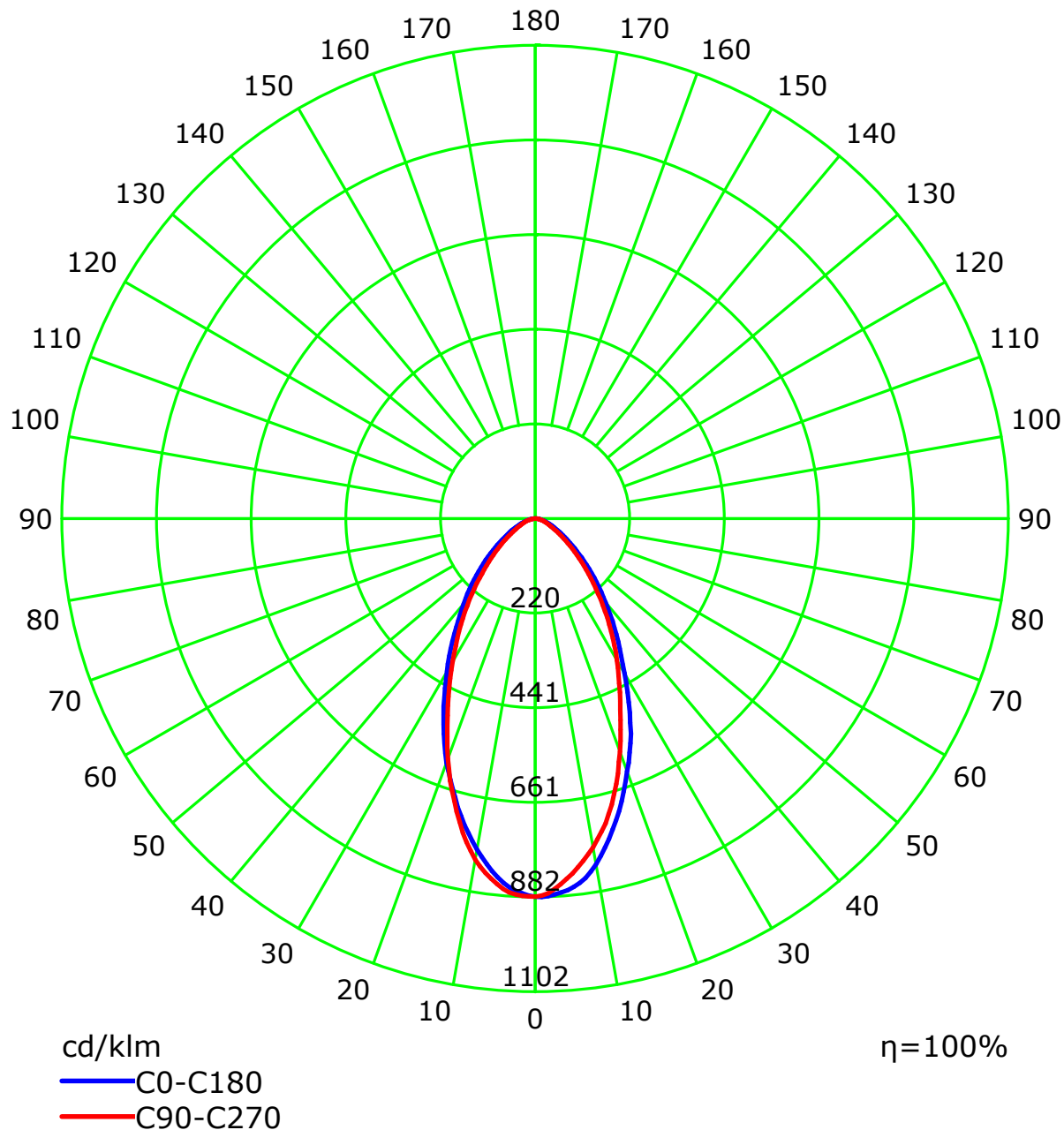
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



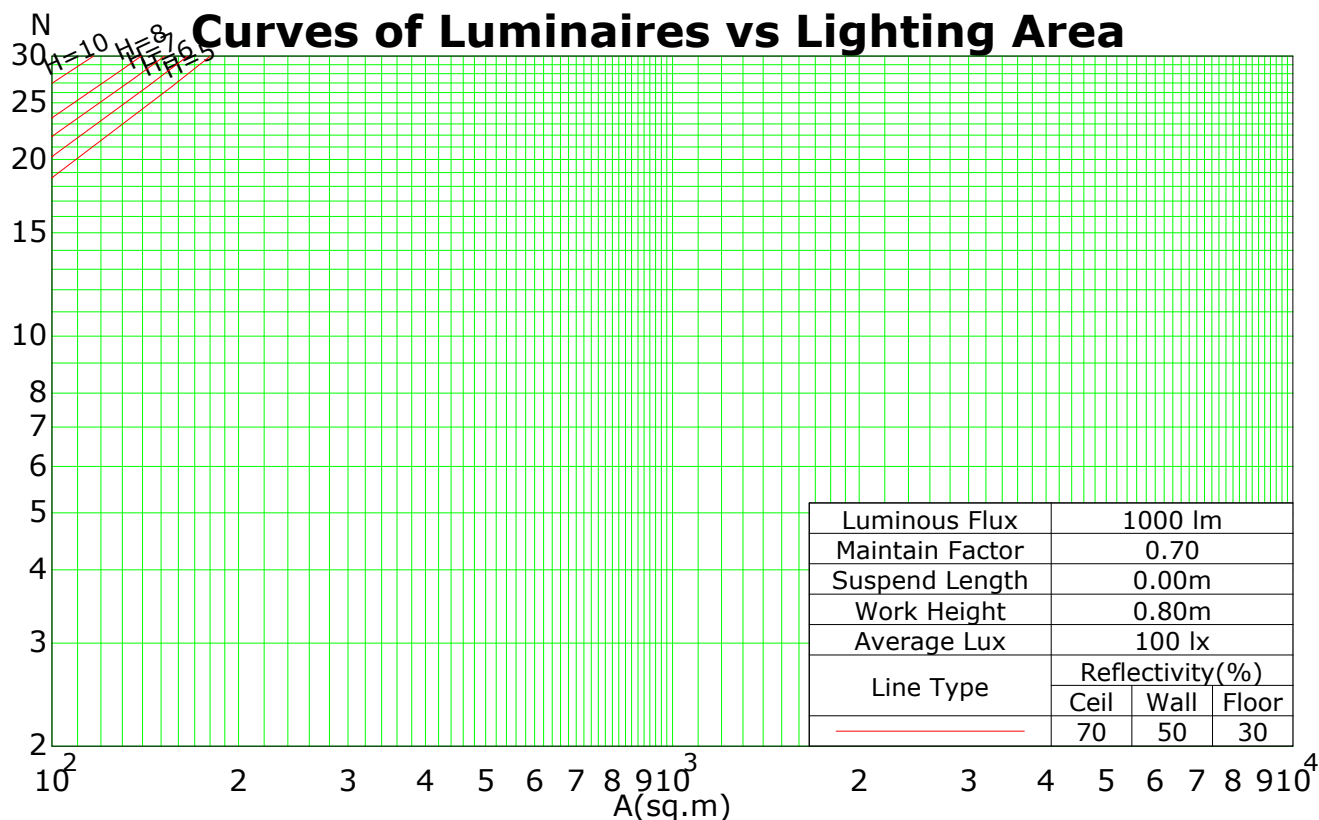
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 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	1.12	1.08	1.05	1.02	1.09	1.06	1.03	1.01	1.02	1.00	0.97	0.98	0.96	0.94	0.95	0.93	0.92	0.90
2	1.04	0.98	0.93	0.89	1.02	0.96	0.92	0.88	0.93	0.89	0.86	0.90	0.87	0.84	0.87	0.84	0.82	0.80
3	0.97	0.89	0.83	0.78	0.95	0.88	0.82	0.77	0.85	0.80	0.76	0.83	0.78	0.75	0.80	0.77	0.74	0.72
4	0.91	0.82	0.75	0.70	0.89	0.80	0.74	0.69	0.78	0.73	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.65
5	0.85	0.75	0.68	0.63	0.84	0.74	0.67	0.62	0.72	0.66	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.59
6	0.80	0.69	0.62	0.57	0.78	0.68	0.62	0.57	0.67	0.61	0.56	0.65	0.60	0.56	0.64	0.59	0.55	0.54
7	0.75	0.64	0.57	0.52	0.74	0.64	0.57	0.52	0.62	0.56	0.52	0.61	0.55	0.51	0.60	0.55	0.51	0.49
8	0.71	0.60	0.53	0.48	0.70	0.59	0.52	0.48	0.58	0.52	0.48	0.57	0.51	0.47	0.56	0.51	0.47	0.45
9	0.67	0.56	0.49	0.44	0.66	0.55	0.49	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.47	0.44	0.42
10	0.64	0.52	0.46	0.41	0.63	0.52	0.45	0.41	0.51	0.45	0.41	0.50	0.45	0.41	0.49	0.44	0.41	0.39

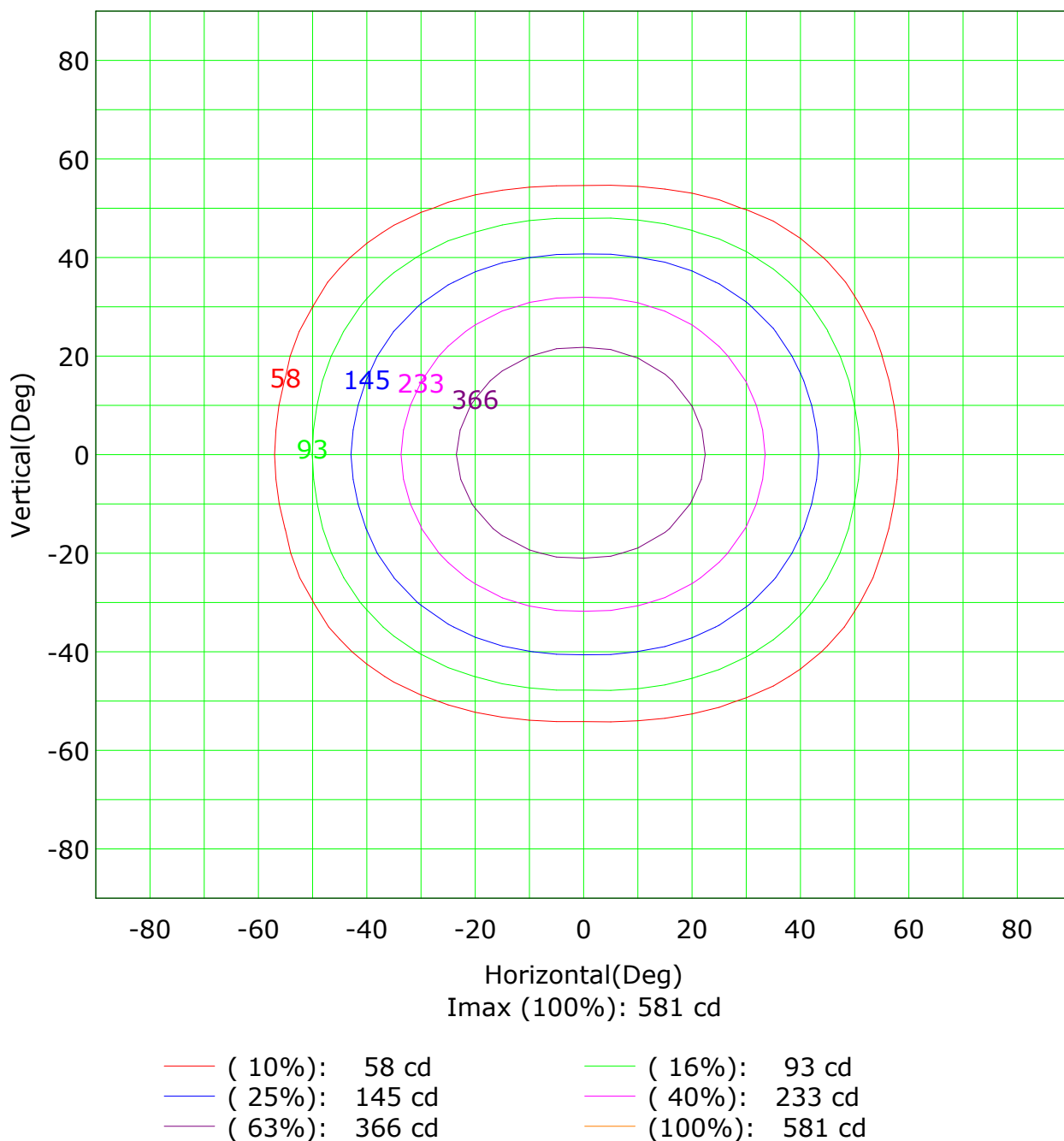
Spacing Criteria (0-180): 0.84
 Spacing Criteria (90-270): 0.79
 Spacing Criteria (Diagonal): 0.89



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

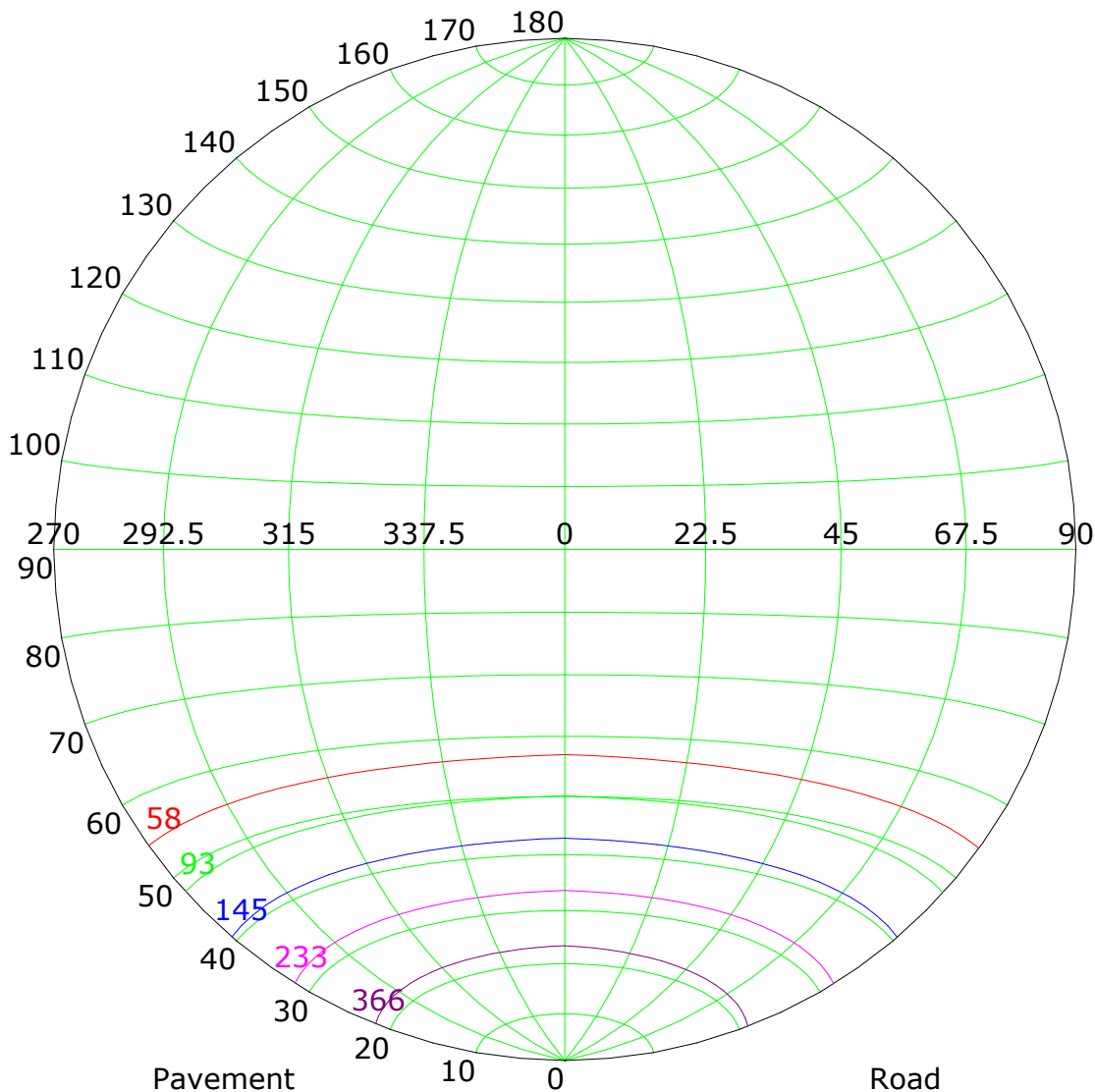
Isocandela (rectangle)



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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 581 cd

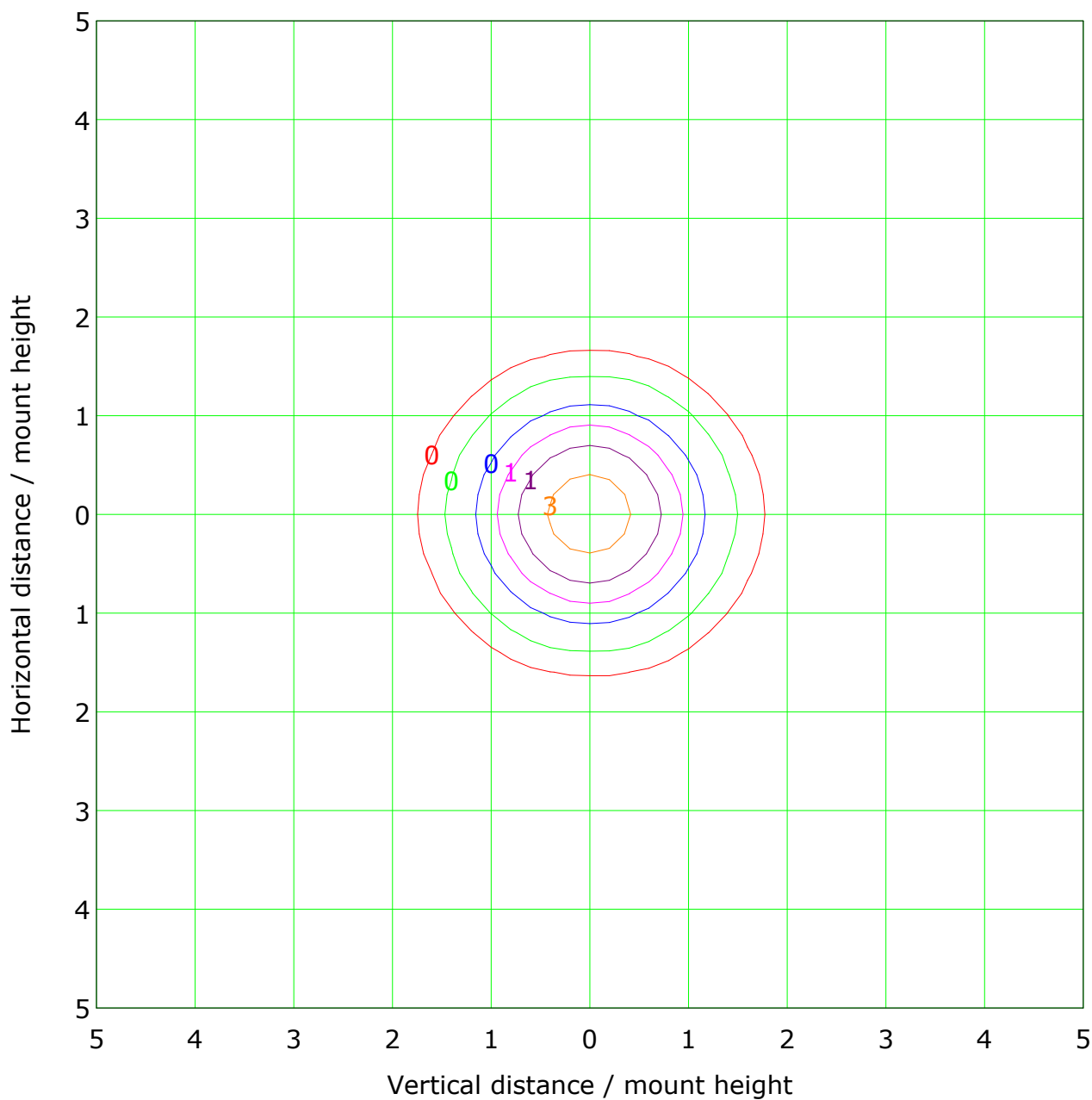
(10%): 58 cd
 (25%): 145 cd
 (63%): 366 cd

(16%): 93 cd
 (40%): 233 cd
 (100%): 581 cd

CIE: narrow - short
 CIE: Full-cut-off luminaire
 Max.At90: 0.895 cd/klm

IES: Cut-off
 Max.At80: 12.975 cd/klm
 Max.80-90: 12.975 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 5.8 lx

— (1%): 0.1 lx	— (2%): 0.1 lx
— (5%): 0.3 lx	— (10%): 0.6 lx
— (20%): 1.2 lx	— (50%): 2.9 lx
— (100%): 5.8 lx	

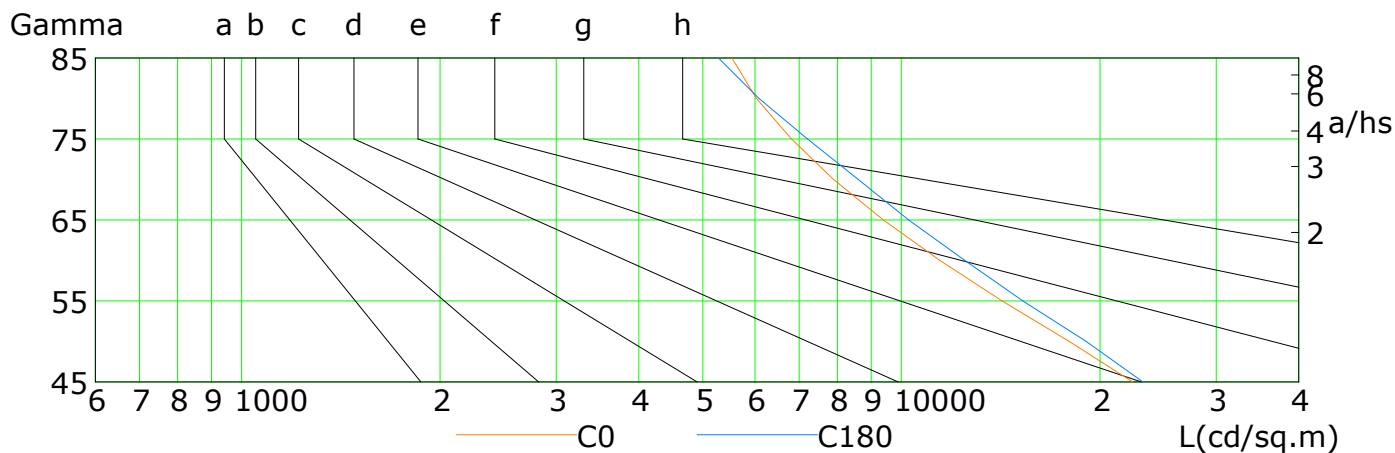
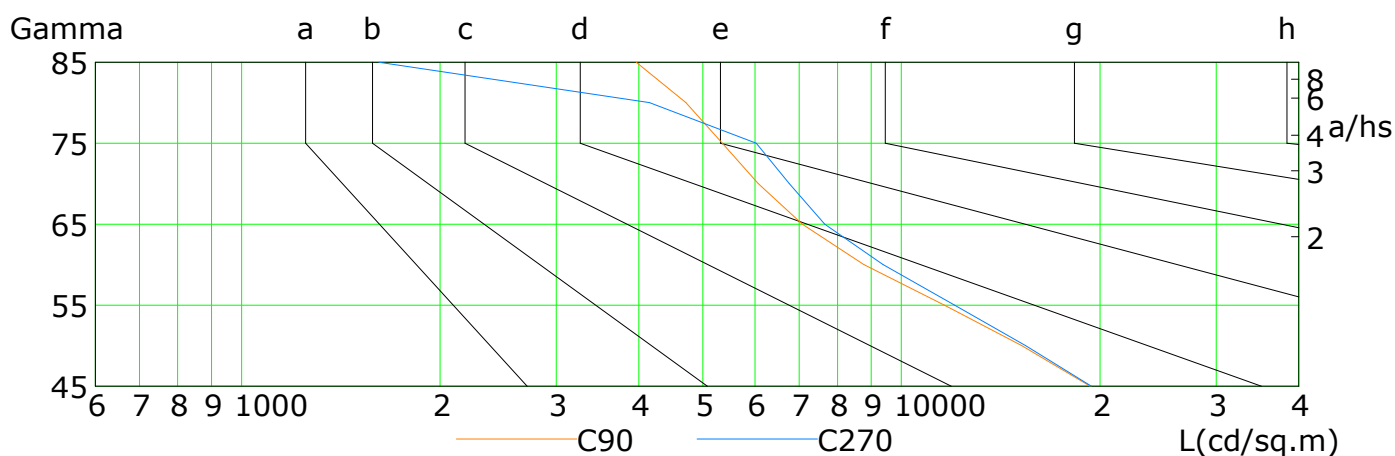
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

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	22425	17950	14208	11432	9392	7891	6812	6029	5539
C90	19322	15208	11619	8775	7075	6064	5352	4714	3966
C180	23238	19045	15289	12474	10256	8598	7207	6079	5284
C270	19401	15417	12051	9383	7651	6764	6025	4152	1615

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

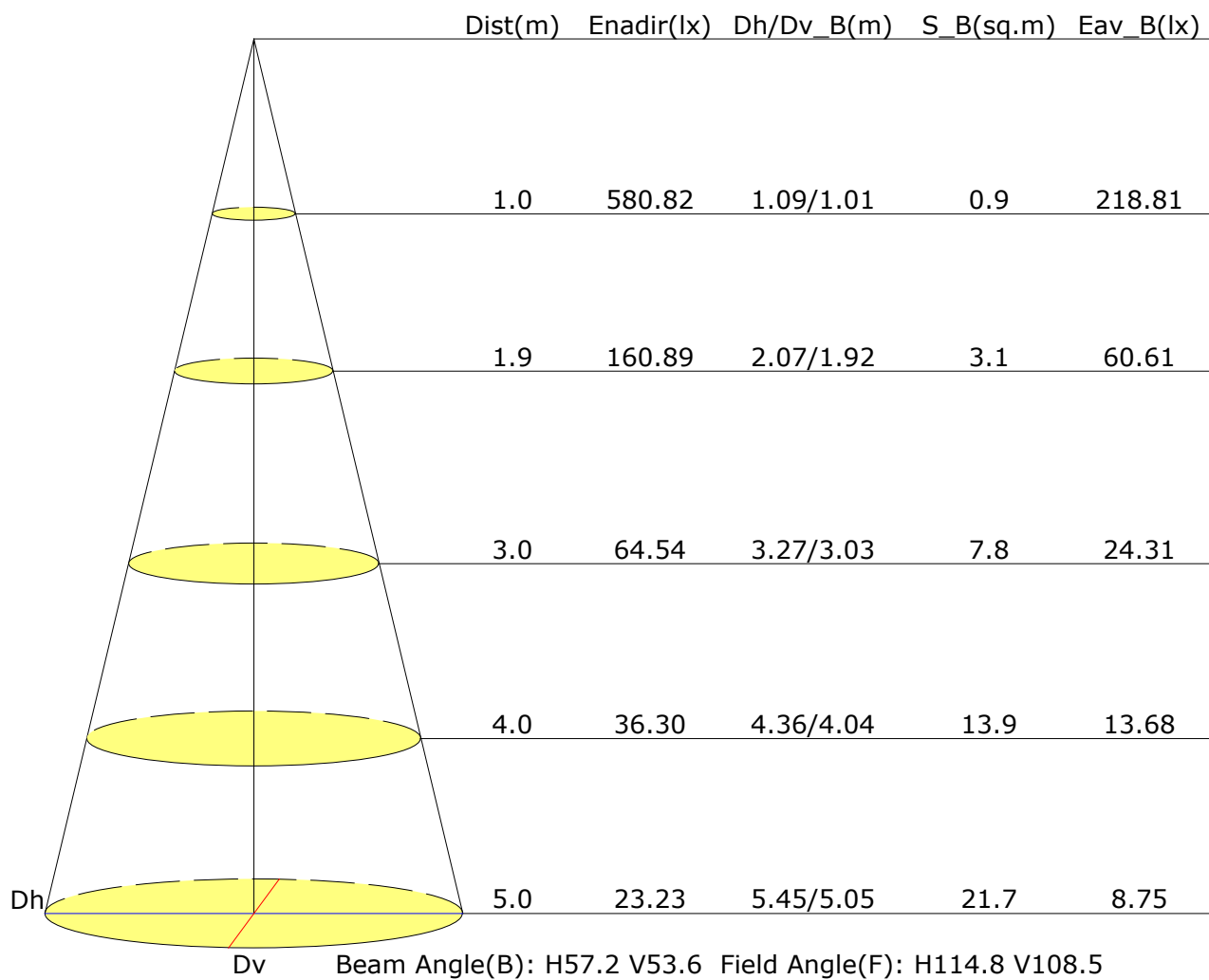
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

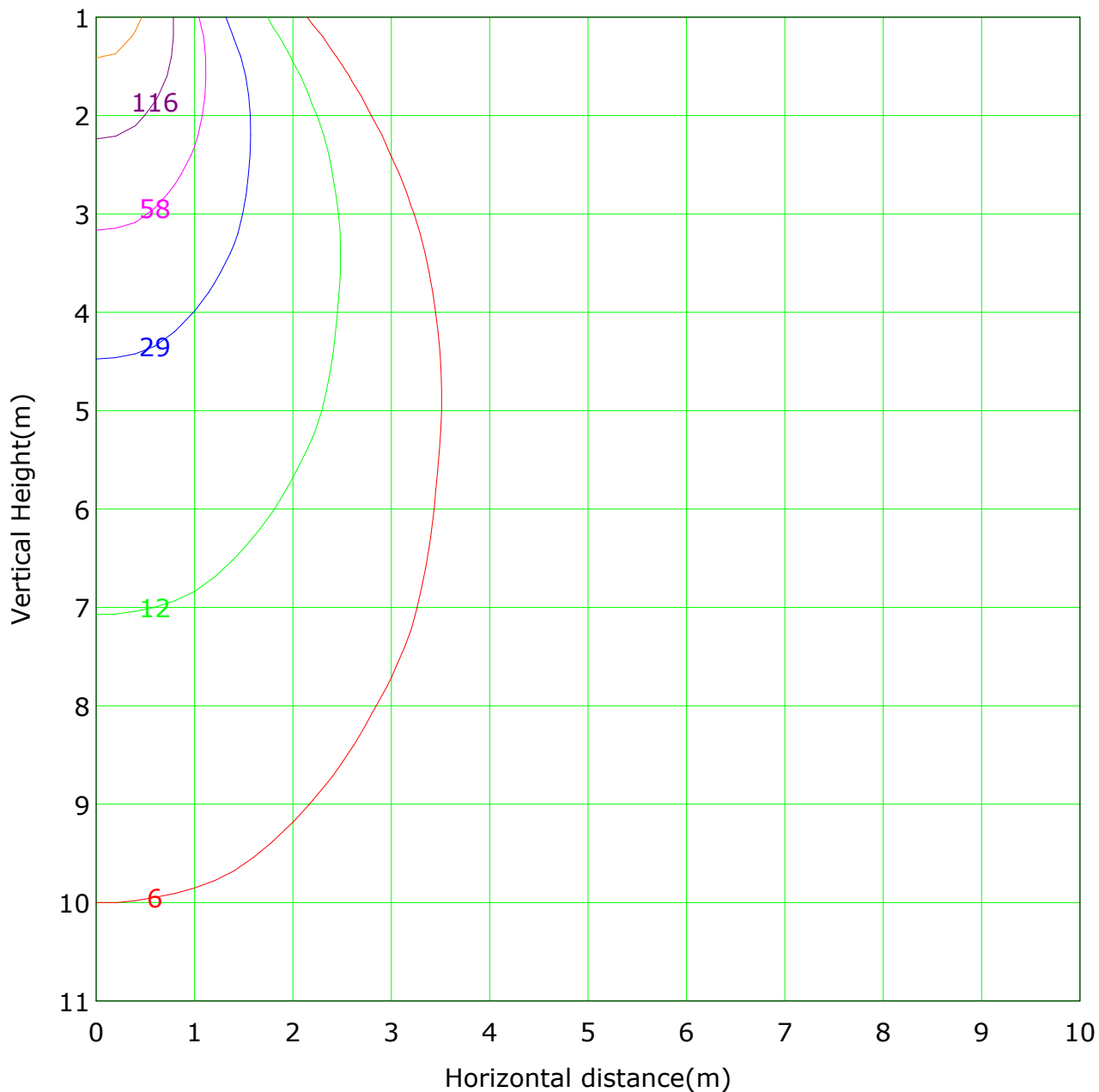
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 580.8 lx
— (1%): 5.8 lx — (2%): 11.6 lx
— (5%): 29.0 lx — (10%): 58.1 lx
— (20%): 116.2 lx — (50%): 290.4 lx
— (100%): 580.8 lx

Area Flux Table

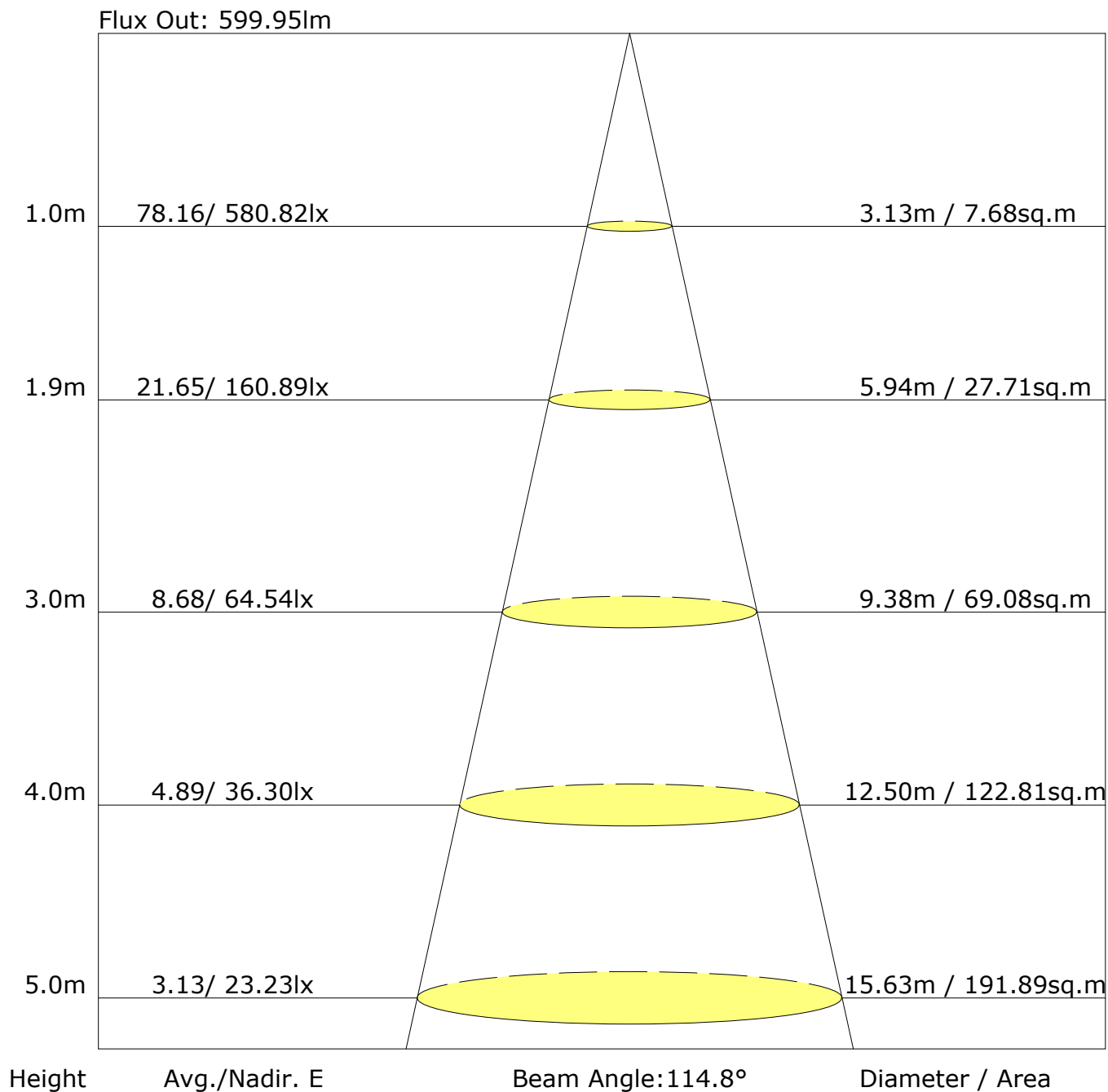
Unit: lm

		Unit: lm																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Vertical plane	-90	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
	-80	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	3.3	0.0	
	-70	0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	0.0	0.0	7.1	0.0	
	-60	0.0	0.1	0.2	0.4	0.6	1.0	1.3	1.6	1.7	1.7	1.6	1.3	0.9	0.6	0.3	0.2	0.1	0.0	13.4	3.7	
	-50	0.0	0.1	0.2	0.5	1.0	1.6	2.4	3.1	3.4	3.4	3.0	2.3	1.6	0.9	0.5	0.2	0.1	0.0	24.4	20.1	
	-40	0.0	0.1	0.3	0.7	1.5	2.6	4.0	5.2	6.0	6.0	5.2	3.9	2.5	1.4	0.7	0.3	0.1	0.0	40.6	37.8	
	-30	0.0	0.1	0.4	0.9	2.0	3.7	5.8	8.0	9.5	9.5	8.1	5.8	3.6	1.9	0.9	0.3	0.1	0.0	60.9	58.8	
	-20	0.0	0.1	0.4	1.1	2.5	4.7	7.7	11.1	13.6	13.7	11.3	7.8	4.7	2.4	1.1	0.4	0.1	0.0	82.8	81.1	
	-10	0.0	0.1	0.5	1.3	2.8	5.3	9.0	13.1	16.4	16.7	13.6	9.2	5.3	2.7	1.2	0.4	0.1	0.0	97.9	96.2	
	0	0.0	0.1	0.5	1.2	2.8	5.3	8.9	13.1	16.2	16.5	13.5	9.2	5.3	2.7	1.2	0.4	0.1	0.0	97.2	95.5	
	10	0.0	0.1	0.4	1.1	2.5	4.7	7.7	10.9	13.3	13.4	11.2	7.8	4.7	2.4	1.1	0.4	0.1	0.0	81.8	80.0	
	20	0.0	0.1	0.4	0.9	2.0	3.7	5.8	8.0	9.3	9.3	8.0	5.8	3.6	1.9	0.9	0.3	0.1	0.0	60.3	58.2	
	30	0.0	0.1	0.3	0.7	1.5	2.6	3.9	5.2	6.0	6.0	5.2	3.9	2.5	1.4	0.7	0.3	0.1	0.0	40.4	37.6	
	40	0.0	0.1	0.2	0.5	1.0	1.6	2.4	3.0	3.4	3.4	3.0	2.3	1.6	0.9	0.5	0.2	0.1	0.0	24.2	19.9	
	50	0.0	0.1	0.2	0.4	0.6	0.9	1.3	1.5	1.7	1.7	1.5	1.2	0.9	0.6	0.3	0.2	0.1	0.0	13.0	3.2	
	60	0.0	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	6.7	0.0	
	70	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	3.2	0.0	
	80	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.9	0.0	
	90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.9	0.0	
Flux(T)	0.2	1.3	4.3	10.6	22.1	39.4	62.2	86.2	103.0	103.8	87.6	62.6	38.9	21.2	10.0	4.1	1.2	0.2	659			
Flux(E)	0.0	0.0	0.0	4.6	17.5	35.1	58.0	82.1	98.9	99.7	83.4	58.4	34.5	16.4	3.6	0.0	0.0	0.0		592		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		Horizontal plane																				

Gamma Plane (°):0.0-90.0:1.0
 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



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

Gamma Plane (°):0.0-90.0:1.0
 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	20.5	21.5	20.7	21.8	22.0	19.8	20.9	20.1	21.1	21.3
3H	21.0	22.0	21.3	22.2	22.5	20.3	21.3	20.6	21.5	21.8
4H	21.2	22.1	21.5	22.4	22.7	20.5	21.4	20.8	21.7	21.9
6H	21.4	22.2	21.7	22.5	22.8	20.6	21.4	20.9	21.7	22.0
8H	21.4	22.3	21.8	22.6	22.9	20.6	21.4	21.0	21.7	22.0
12H	21.5	22.2	21.8	22.6	22.9	20.6	21.4	21.0	21.7	22.0
X=4H Y=2H	20.6	21.5	21.0	21.8	22.1	20.1	21.0	20.4	21.3	21.5
3H	21.3	22.1	21.7	22.4	22.8	20.7	21.5	21.1	21.8	22.1
4H	21.7	22.4	22.0	22.7	23.1	21.0	21.7	21.4	22.0	22.4
6H	21.9	22.5	22.3	22.9	23.3	21.2	21.8	21.6	22.2	22.6
8H	22.0	22.6	22.4	23.0	23.4	21.2	21.8	21.7	22.2	22.6
12H	22.1	22.6	22.5	23.0	23.4	21.2	21.7	21.7	22.2	22.6
X=8H Y=4H	21.7	22.3	22.2	22.7	23.1	21.1	21.7	21.5	22.1	22.5
6H	22.1	22.5	22.5	22.9	23.4	21.4	21.8	21.8	22.3	22.7
8H	22.2	22.6	22.7	23.0	23.5	21.5	21.9	21.9	22.3	22.8
12H	22.3	22.7	22.8	23.1	23.6	21.5	21.8	22.0	22.3	22.8
X=12H Y=4H	21.7	22.2	22.1	22.6	23.1	21.1	21.6	21.5	22.0	22.4
6H	22.1	22.5	22.5	22.9	23.4	21.4	21.8	21.9	22.2	22.7
8H	22.2	22.6	22.7	23.0	23.5	21.5	21.8	22.0	22.3	22.8
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.8					+0.5/-0.9				
S=1.5H	+1.1/-1.5					+1.2/-1.8				
S=2.0H	+2.2/-2.3					+2.3/-2.5				

Calculate in accordance with CIE Pub.117. The table is revised with 659lm ($8\log(F/F_0) = -1.4$).

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.70	0.79	0.85	0.89	0.95	0.99	1.02	1.05	1.08	
	0.30		0.63	0.73	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.20		0.59	0.68	0.75	0.80	0.87	0.91	0.95	0.99	1.02	
0.50	0.50	0.20	0.68	0.77	0.83	0.87	0.92	0.96	0.98	1.01	1.03	
	0.30		0.63	0.72	0.78	0.82	0.88	0.92	0.95	0.99	1.01	
	0.20		0.58	0.67	0.74	0.78	0.85	0.89	0.92	0.97	0.99	
0.30	0.50	0.20	0.67	0.75	0.81	0.84	0.90	0.93	0.95	0.98	1.00	
	0.30		0.62	0.71	0.76	0.81	0.86	0.90	0.92	0.96	0.98	
	0.20		0.58	0.67	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
0.00	0.00	0.00	0.56	0.65	0.70	0.75	0.80	0.84	0.86	0.90	0.92	
Rating:5W 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 = 0.75									
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	0.81	0.65	0.55	0.47	0.37	0.31	0.26	0.20	0.16	
	0.30		0.67	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.58	0.49	0.42	0.38	0.31	0.26	0.22	0.18	0.15	
0.50	0.50	0.20	0.77	0.62	0.52	0.45	0.35	0.33	0.24	0.19	0.15	
	0.30		0.65	0.54	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
	0.20		0.57	0.48	0.41	0.36	0.30	0.25	0.21	0.17	0.14	
0.30	0.50	0.20	0.75	0.60	0.50	0.43	0.33	0.27	0.23	0.18	0.14	
	0.30		0.64	0.53	0.45	0.39	0.31	0.25	0.22	0.17	0.14	
	0.20		0.56	0.47	0.40	0.35	0.29	0.24	0.20	0.16	0.13	
0.00	0.00	0.00	0.44	0.36	0.30	0.26	0.20	0.17	0.14	0.11	0.09	
Rating:5W 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 = 0.75									
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	0.19	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	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	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.16	0.17	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	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	580.3	0.6	0.6	0.08	0.08
1.0-2.0	578.9	1.7	2.2	0.25	0.34
2.0-3.0	576.2	2.8	5.0	0.42	0.75
3.0-4.0	572.4	3.8	8.8	0.58	1.34
4.0-5.0	567.8	4.9	13.7	0.74	2.08
5.0-6.0	561.9	5.9	19.6	0.90	2.97
6.0-7.0	555.1	6.9	26.5	1.05	4.02
7.0-8.0	547.4	7.8	34.3	1.19	5.21
8.0-9.0	538.9	8.7	43.1	1.33	6.53
9.0-10.0	529.7	9.6	52.6	1.45	7.99
10.0-11.0	519.3	10.4	63.0	1.57	9.56
11.0-12.0	508.0	11.1	74.1	1.69	11.25
12.0-13.0	496.7	11.8	85.9	1.79	13.04
13.0-14.0	484.4	12.4	98.3	1.88	14.92
14.0-15.0	471.4	12.9	111.3	1.96	16.89
15.0-16.0	458.1	13.4	124.7	2.04	18.92
16.0-17.0	444.5	13.8	138.5	2.10	21.02
17.0-18.0	431.2	14.2	152.8	2.16	23.18
18.0-19.0	417.1	14.5	167.3	2.20	25.38
19.0-20.0	403.0	14.8	182.0	2.24	27.62
20.0-21.0	389.5	15.0	197.0	2.27	29.89
21.0-22.0	375.2	15.1	212.1	2.29	32.18
22.0-23.0	361.0	15.1	227.2	2.30	34.48
23.0-24.0	347.1	15.2	242.4	2.30	36.78
24.0-25.0	333.2	15.2	257.5	2.30	39.08
25.0-26.0	319.9	15.1	272.6	2.29	41.38
26.0-27.0	306.6	15.0	287.6	2.28	43.65
27.0-28.0	293.6	14.9	302.5	2.26	45.91
28.0-29.0	281.2	14.7	317.2	2.23	48.14
29.0-30.0	268.7	14.5	331.7	2.20	50.34
30.0-31.0	256.9	14.3	346.0	2.17	52.51
31.0-32.0	245.5	14.1	360.1	2.13	54.65
32.0-33.0	234.4	13.8	373.9	2.10	56.74
33.0-34.0	224.0	13.6	387.5	2.06	58.80
34.0-35.0	213.3	13.2	400.7	2.01	60.81
35.0-36.0	202.9	12.9	413.6	1.96	62.77

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
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	193.0	12.6	426.2	1.91	64.68
37.0-38.0	183.2	12.2	438.4	1.86	66.54
38.0-39.0	174.1	11.9	450.3	1.80	68.34
39.0-40.0	164.9	11.5	461.8	1.75	70.09
40.0-41.0	155.9	11.1	472.9	1.69	71.77
41.0-42.0	147.9	10.7	483.7	1.63	73.40
42.0-43.0	139.8	10.4	494.0	1.57	74.98
43.0-44.0	131.9	10.0	504.0	1.51	76.49
44.0-45.0	124.5	9.6	513.6	1.45	77.94
45.0-46.0	117.2	9.2	522.7	1.39	79.33
46.0-47.0	110.3	8.8	531.5	1.33	80.66
47.0-48.0	103.5	8.4	539.9	1.27	81.93
48.0-49.0	97.0	8.0	547.8	1.21	83.14
49.0-50.0	91.0	7.6	555.4	1.15	84.29
50.0-51.0	85.0	7.2	562.6	1.09	85.38
51.0-52.0	79.3	6.8	569.4	1.03	86.42
52.0-53.0	73.9	6.4	575.9	0.98	87.39
53.0-54.0	68.7	6.1	581.9	0.92	88.31
54.0-55.0	64.0	5.7	587.6	0.87	89.18
55.0-56.0	59.4	5.4	593.0	0.81	89.99
56.0-57.0	55.1	5.0	598.0	0.77	90.76
57.0-58.0	51.4	4.8	602.8	0.72	91.48
58.0-59.0	47.7	4.5	607.3	0.68	92.16
59.0-60.0	44.2	4.2	611.4	0.63	92.79
60.0-61.0	41.0	3.9	615.3	0.59	93.38
61.0-62.0	38.1	3.7	619.0	0.56	93.94
62.0-63.0	35.5	3.4	622.5	0.52	94.46
63.0-64.0	32.9	3.2	625.7	0.49	94.96
64.0-65.0	30.5	3.0	628.7	0.46	95.41
65.0-66.0	28.4	2.8	631.5	0.43	95.84
66.0-67.0	26.4	2.7	634.2	0.40	96.25
67.0-68.0	24.5	2.5	636.7	0.38	96.62
68.0-69.0	22.7	2.3	639.0	0.35	96.97
69.0-70.0	21.1	2.2	641.2	0.33	97.30
70.0-71.0	19.6	2.0	643.2	0.31	97.61
71.0-72.0	18.1	1.9	645.1	0.29	97.90

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:



Zonal Lumen (Continue 2)

[illegible]

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 513.56 lm

%lum = 77.9%

%lamp = 77.9%

cone flux(120°): 611.43 lm

%lum = 92.8%

%lamp = 92.8%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	580.8	580.6	580.8	580.6	580.8					
G1.0	581.3	579.2	578.8	580.1	581.3					
G2.0	580.3	575.8	575.7	579.7	580.3					
G3.0	578.0	569.6	572.6	578.0	578.0					
G4.0	575.4	562.7	567.8	575.4	575.4					
G5.0	573.0	555.5	561.5	570.8	573.0					
G6.0	568.8	547.9	553.6	564.3	568.8					
G7.0	563.8	539.8	545.2	557.2	563.8					
G8.0	557.4	530.5	536.0	549.8	557.4					
G9.0	548.8	521.7	526.1	540.9	548.8					
G10.0	539.2	512.3	516.2	531.9	539.2					
G11.0	527.9	501.8	504.9	520.1	527.9					
G12.0	516.5	491.1	493.9	508.1	516.5					
G13.0	505.0	480.5	483.4	495.2	505.0					
G14.0	492.1	467.6	470.8	480.3	492.1					
G15.0	480.1	455.0	459.4	466.1	480.1					
G16.0	467.5	440.0	445.8	451.2	467.5					
G17.0	454.1	426.4	434.1	437.3	454.1					
G18.0	440.8	411.6	422.3	423.3	440.8					
G19.0	426.4	395.4	410.1	407.1	426.4					
G20.0	413.2	381.0	398.5	392.7	413.2					
G21.0	401.5	365.9	385.8	377.4	401.5					
G22.0	387.7	349.8	372.4	361.2	387.7					
G23.0	374.9	336.0	359.6	346.1	374.9					
G24.0	361.7	321.4	345.8	331.2	361.7					
G25.0	345.7	309.4	332.9	317.3	345.7					
G26.0	331.7	297.0	320.9	304.3	331.7					
G27.0	316.6	284.3	307.5	290.6	316.6					
G28.0	302.5	273.5	295.3	278.4	302.5					
G29.0	288.6	262.5	282.1	266.4	288.6					
G30.0	274.5	251.3	271.0	253.4	274.5					
G31.0	261.7	240.9	260.3	242.5	261.7					
G32.0	249.1	229.4	249.1	230.8	249.1					
G33.0	238.4	219.5	238.7	220.3	238.4					
G34.0	228.3	209.4	227.7	209.6	228.3					
G35.0	217.1	198.8	216.4	198.9	217.1					
G36.0	207.0	189.0	206.4	189.4	207.0					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

**Candlepower Table (Continue 1)**

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	197.6	178.3	196.5	179.6	197.6					
G38.0	187.3	168.9	188.0	169.6	187.3					
G39.0	178.2	160.1	179.8	160.6	178.2					
G40.0	168.4	150.2	171.1	150.6	168.4					
G41.0	159.9	141.8	163.1	142.3	159.9					
G42.0	152.1	133.9	155.8	134.2	152.1					
G43.0	143.5	125.5	147.9	125.3	143.5					
G44.0	136.1	118.2	140.6	118.0	136.1					
G45.0	128.4	110.7	133.1	111.1	128.4					
G46.0	120.5	103.8	126.0	104.1	120.5					
G47.0	113.7	97.4	119.1	97.6	113.7					
G48.0	106.4	90.9	111.8	91.3	106.4					
G49.0	99.9	85.0	105.6	85.5	99.9					
G50.0	93.5	79.2	99.2	80.3	93.5					
G51.0	86.9	73.5	92.7	74.7	86.9					
G52.0	81.5	68.2	87.2	69.8	81.5					
G53.0	76.1	62.8	81.1	65.0	76.1					
G54.0	70.5	58.2	76.0	60.1	70.5					
G55.0	66.0	54.0	71.0	56.0	66.0					
G56.0	61.2	49.4	66.1	51.5	61.2					
G57.0	57.3	45.5	62.0	48.0	57.3					
G58.0	53.7	42.1	58.2	44.4	53.7					
G59.0	49.8	38.5	54.0	40.9	49.8					
G60.0	46.3	35.5	50.5	38.0	46.3					
G61.0	43.3	32.6	46.8	35.0	43.3					
G62.0	40.2	30.3	43.8	32.6	40.2					
G63.0	37.4	28.0	40.9	30.4	37.4					
G64.0	34.7	26.0	37.7	28.1	34.7					
G65.0	32.2	24.2	35.1	26.2	32.2					
G66.0	29.9	22.5	32.5	24.7	29.9					
G67.0	27.4	20.9	30.1	22.9	27.4					
G68.0	25.6	19.5	27.9	21.5	25.6					
G69.0	23.8	18.0	25.8	19.9	23.8					
G70.0	21.9	16.8	23.8	18.7	21.9					
G71.0	20.3	15.6	21.9	17.5	20.3					
G72.0	18.6	14.4	20.0	16.3	18.6					
G73.0	17.1	13.3	18.3	15.2	17.1					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



Unit: cd

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector: