

Report No.:

Test Time: 2024-06-04 14:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 3000K

Number of Lamps:

Luminous Length (mm): 75

Luminous Height (mm):

Current: 0.0810 A

Power Factor: 0.5590

Luminaire Description: DL.Y1075A

Lamp Description: RA90

Lumens per Lamp:

Luminous Width (mm): 75

Voltage: 231.00 V

Power: 10.46 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1059.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H66.9

Vertical Diffuse Angle(50%): V66.7

Luminous Efficacy (lm/w): 101.29

Max. Intensity: 971.17 cd

S/MH(C0/C180): 1.05

Total Rated Lamp Lumens: 1059.5 lm

Efficiency: 100%

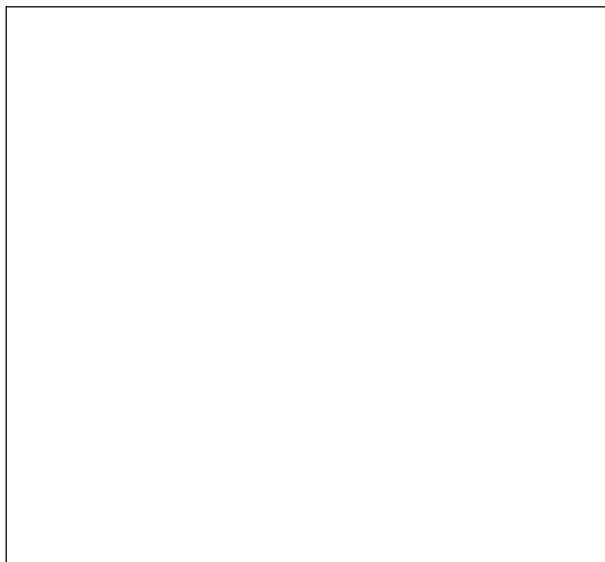
Upward Ratio: 0%

C0r0 Intensity: 971.17 cd

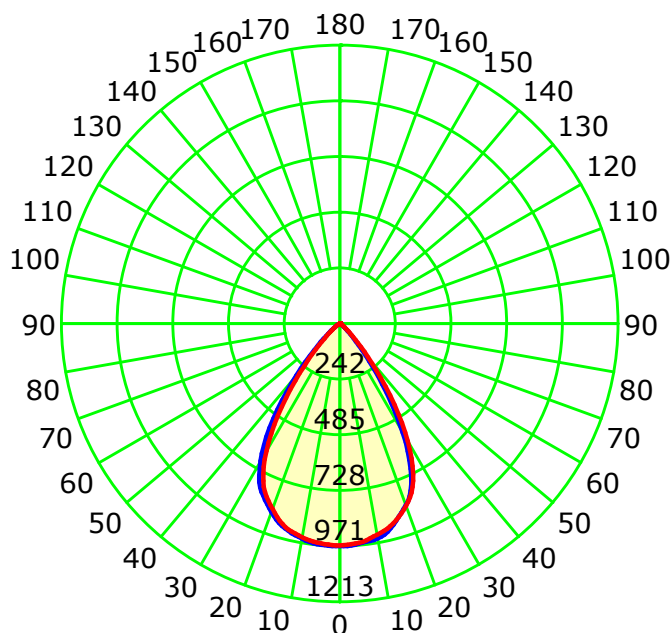
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.05

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 66.8°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

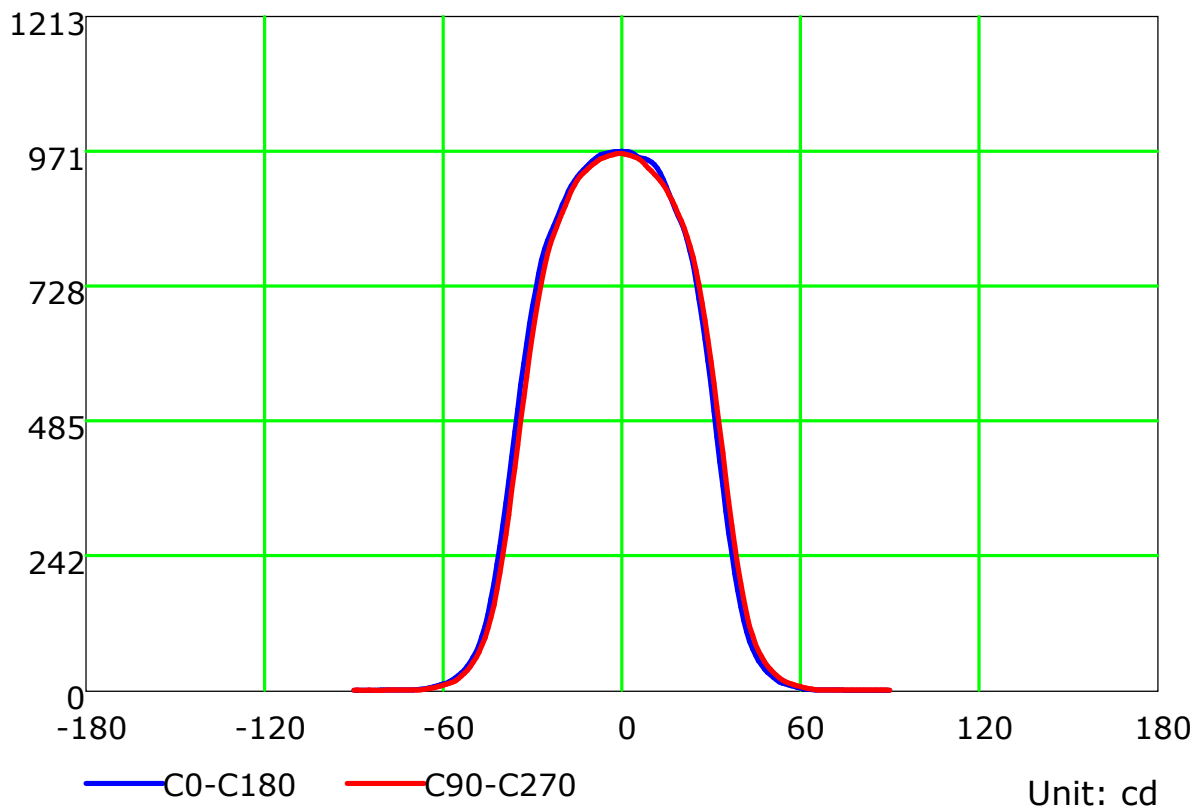
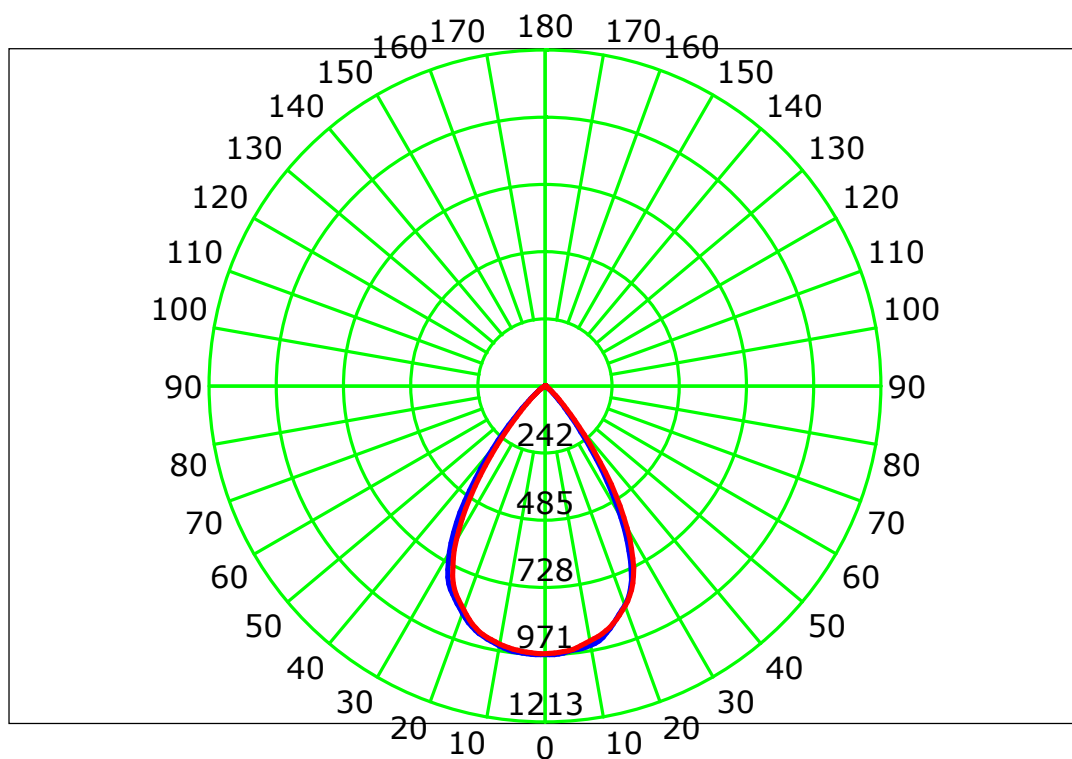
Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



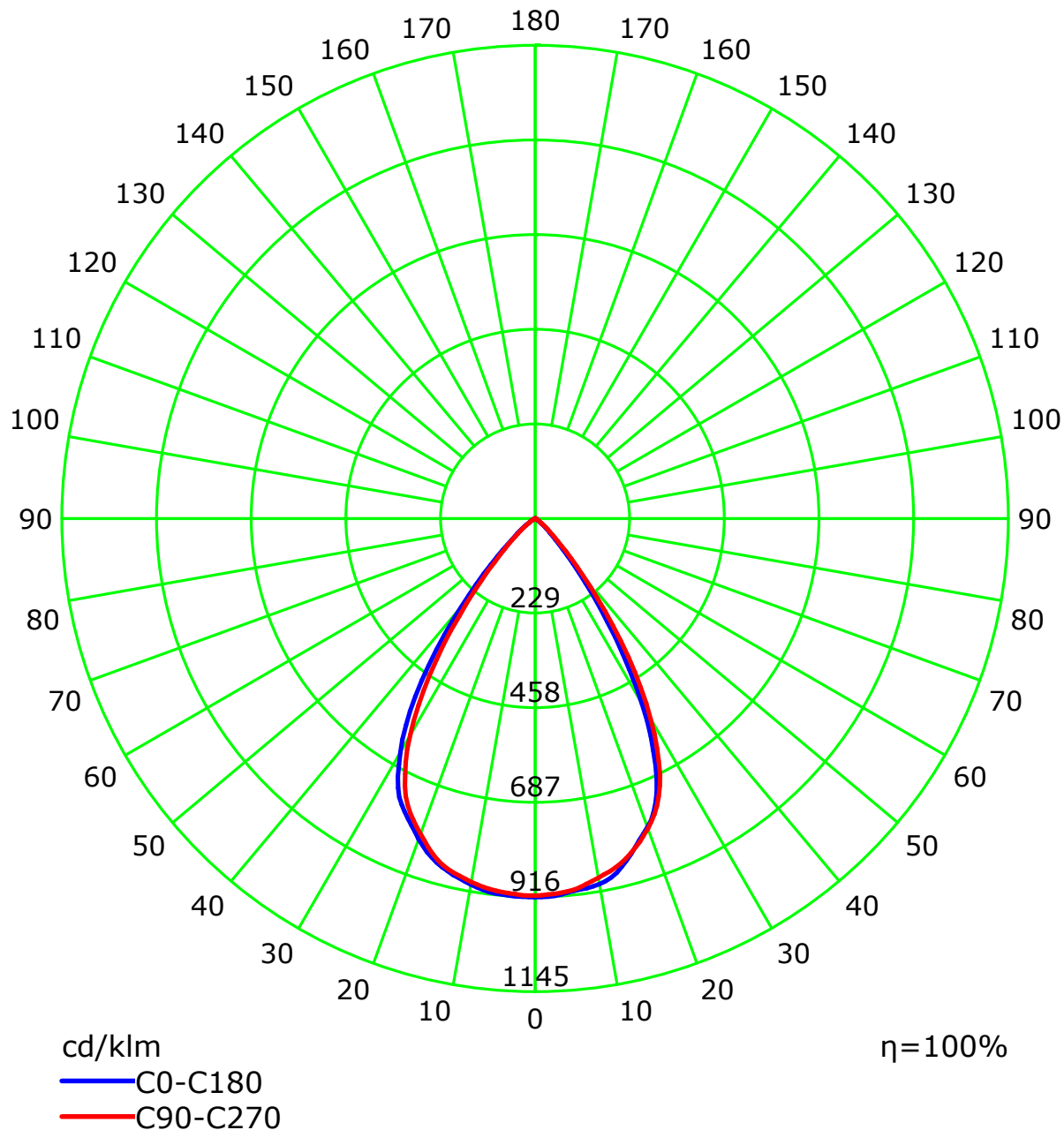
Luminous Intensity Distribution Curve



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)



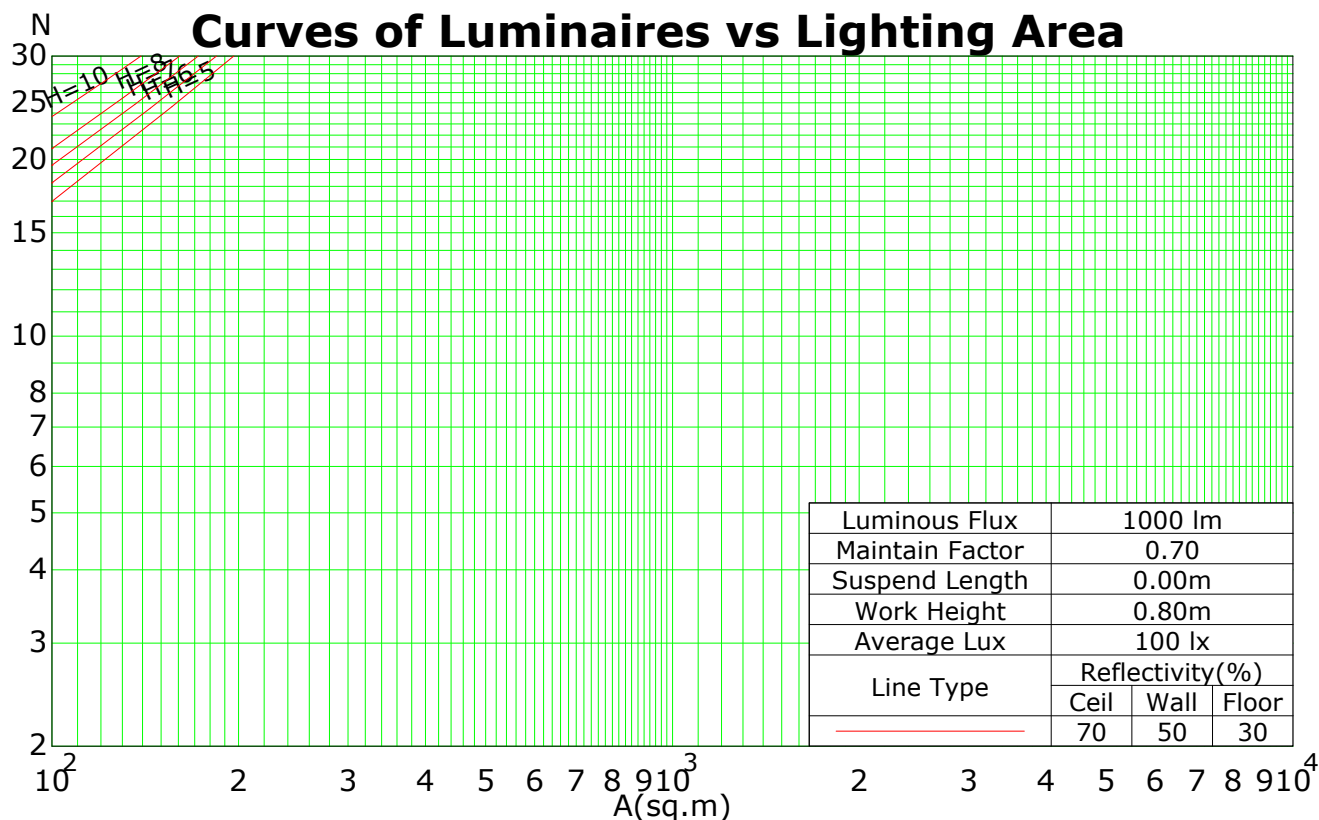
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	1.13	1.10	1.08	1.06	1.11	1.08	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93
2	1.07	1.02	0.98	0.95	1.05	1.01	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.86
3	1.02	0.95	0.90	0.86	1.00	0.94	0.89	0.85	0.91	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.79
4	0.96	0.88	0.83	0.78	0.94	0.87	0.82	0.78	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.73
5	0.91	0.82	0.76	0.72	0.89	0.81	0.76	0.71	0.79	0.75	0.71	0.78	0.73	0.70	0.76	0.72	0.69	0.68
6	0.86	0.77	0.71	0.66	0.85	0.76	0.70	0.66	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.64	0.63
7	0.82	0.72	0.66	0.61	0.80	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.60	0.67	0.63	0.60	0.59
8	0.77	0.67	0.61	0.57	0.76	0.67	0.61	0.57	0.66	0.60	0.56	0.65	0.60	0.56	0.64	0.59	0.56	0.55
9	0.73	0.63	0.57	0.53	0.72	0.63	0.57	0.53	0.62	0.56	0.53	0.61	0.56	0.52	0.60	0.56	0.52	0.51
10	0.70	0.60	0.54	0.49	0.69	0.59	0.53	0.49	0.58	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.48

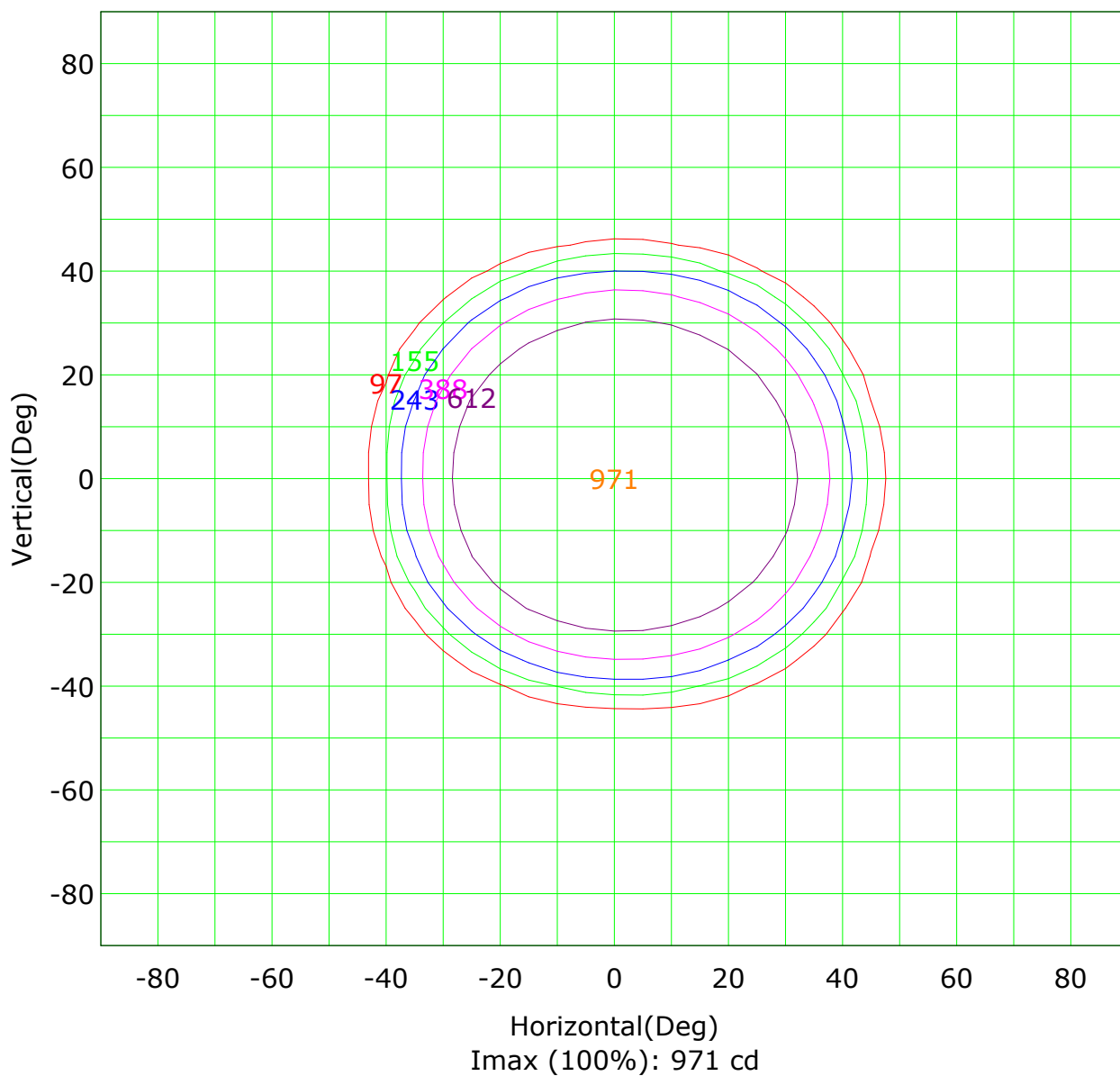
Spacing Criteria (0-180): 1.05
 Spacing Criteria (90-270): 1.05
 Spacing Criteria (Diagonal): 0.97



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:

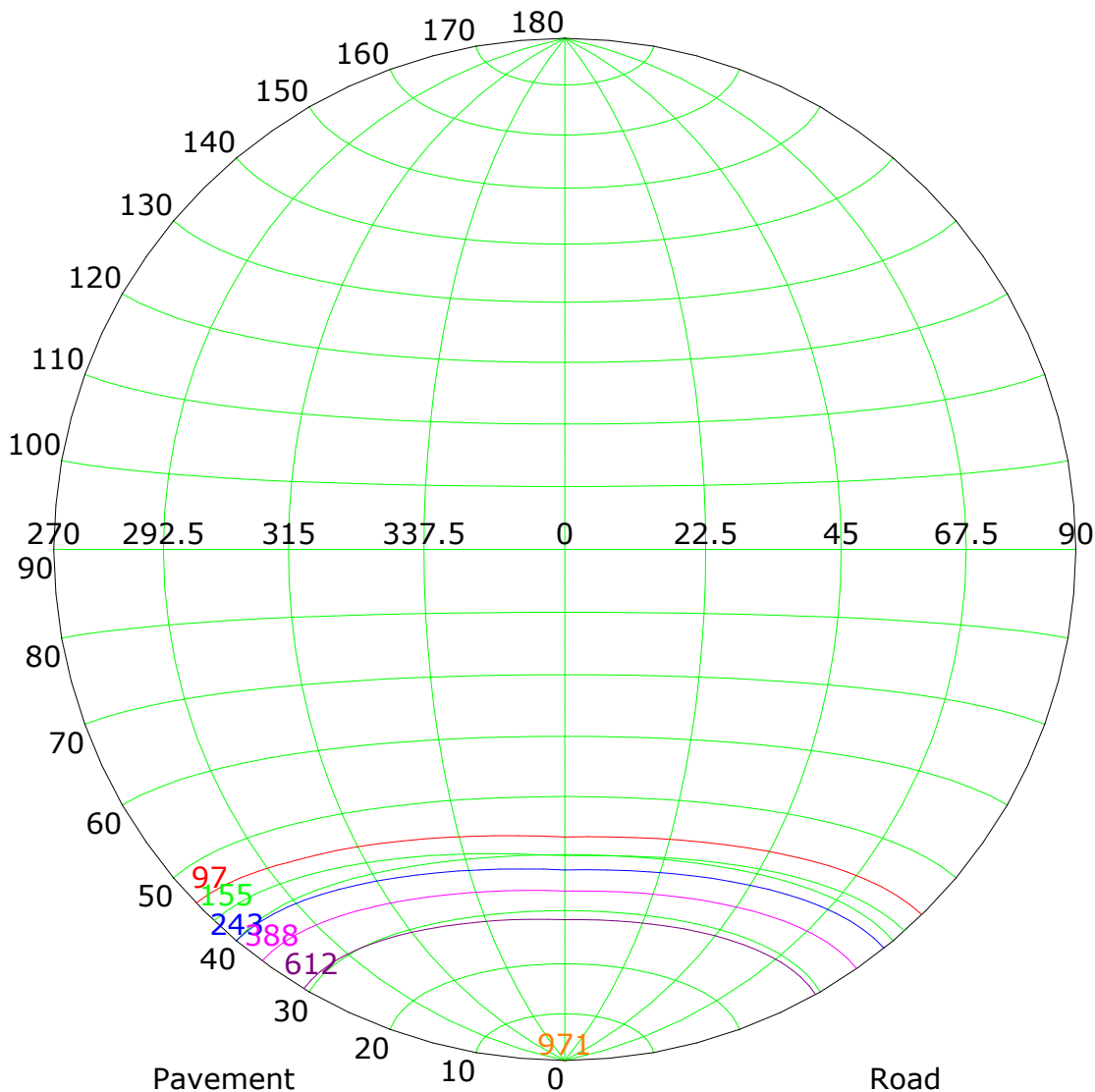
Isocandela (rectangle)



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%): 971 cd

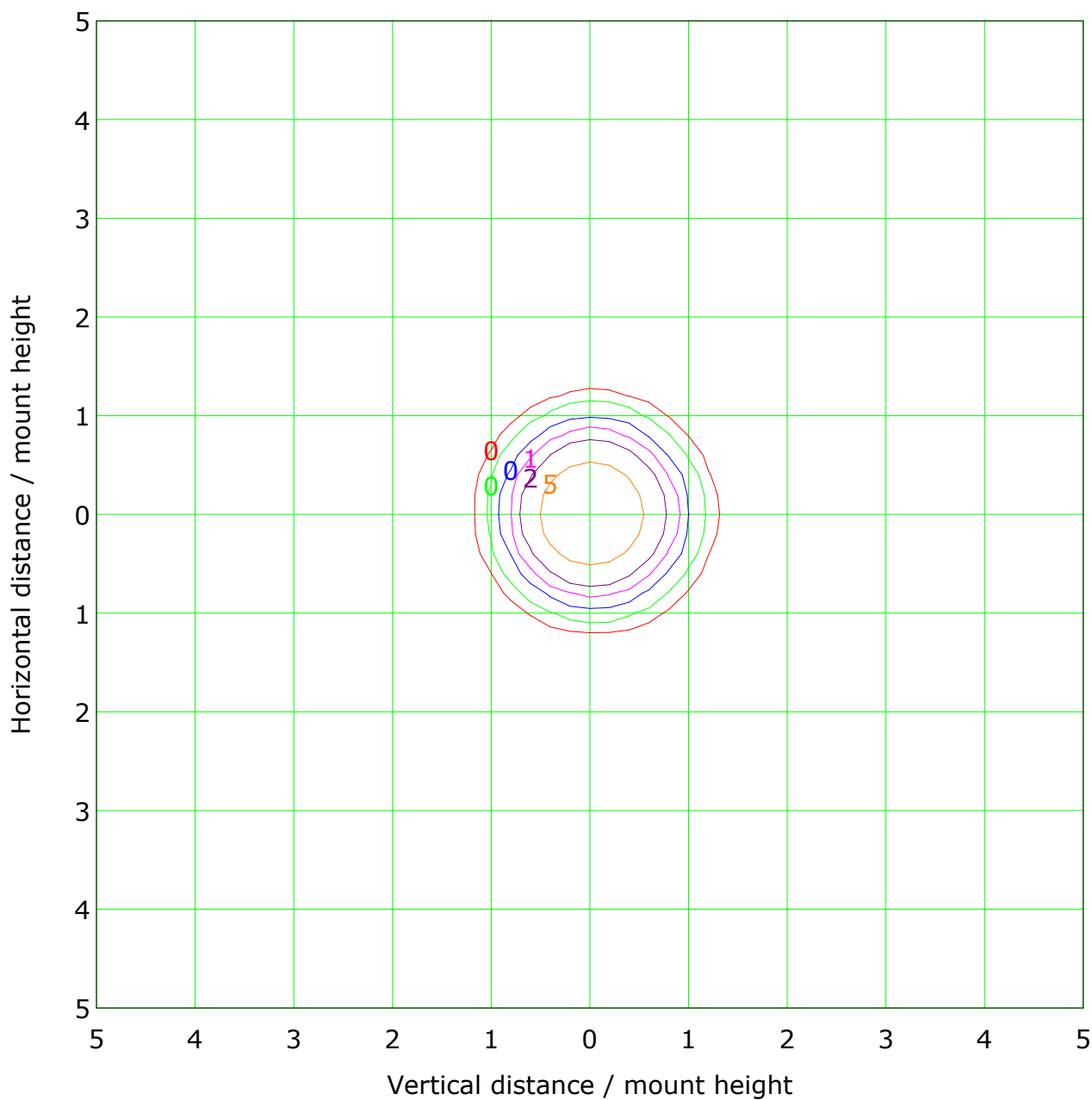
(10%): 97 cd
 (25%): 243 cd
 (63%): 612 cd

(16%): 155 cd
 (40%): 388 cd
 (100%): 971 cd

CIE: narrow - short
 CIE: Full-cut-off luminaire
 Max.At90: 0.491 cd/klm

IES: Cut-off
 Max.At80: 0.585 cd/klm
 Max.80-90: 0.585 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 9.7 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.5 lx	(10%): 1.0 lx
(20%): 1.9 lx	(50%): 4.9 lx
(100%): 9.7 lx	

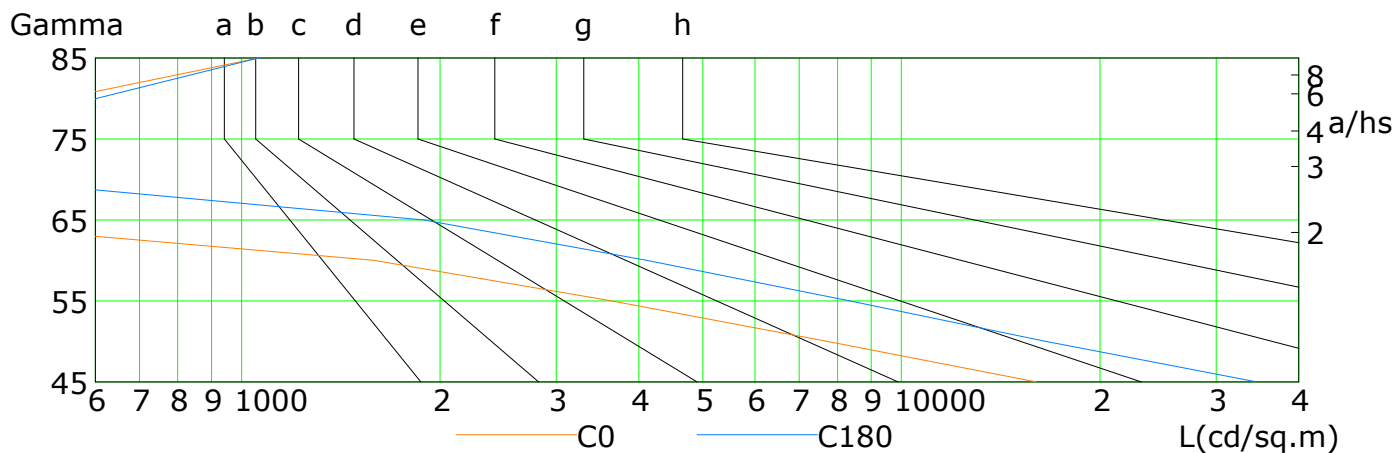
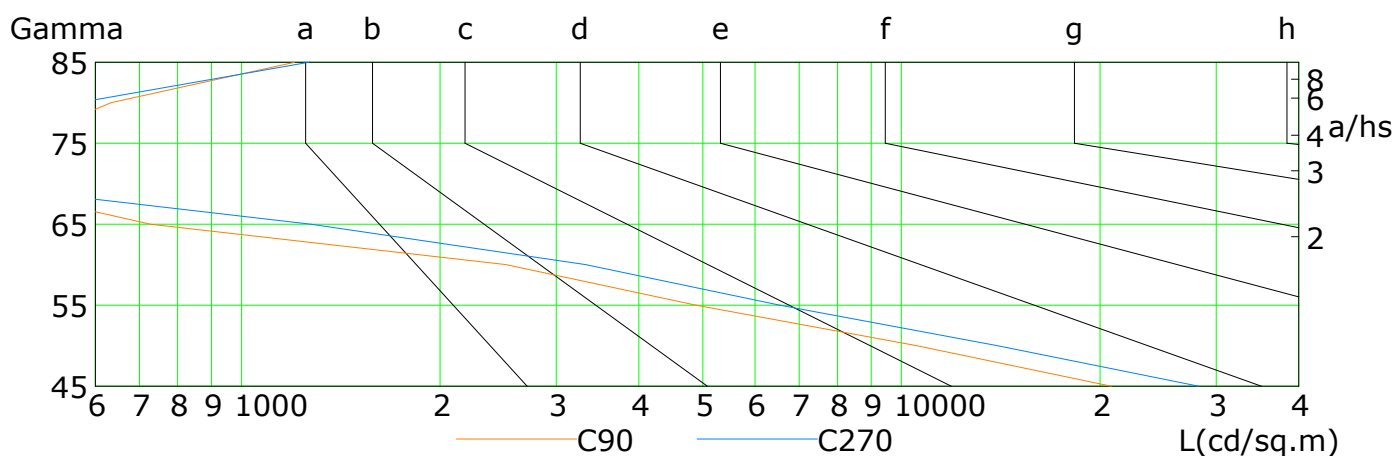
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	16020	7708	3642	1586	315	322	357	532	1061
C90	20807	10518	4885	2514	728	390	446	635	1203
C180	34577	16525	8356	4110	1889	405	467	604	1061
C270	28201	13939	6549	3321	1275	374	426	563	1265

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

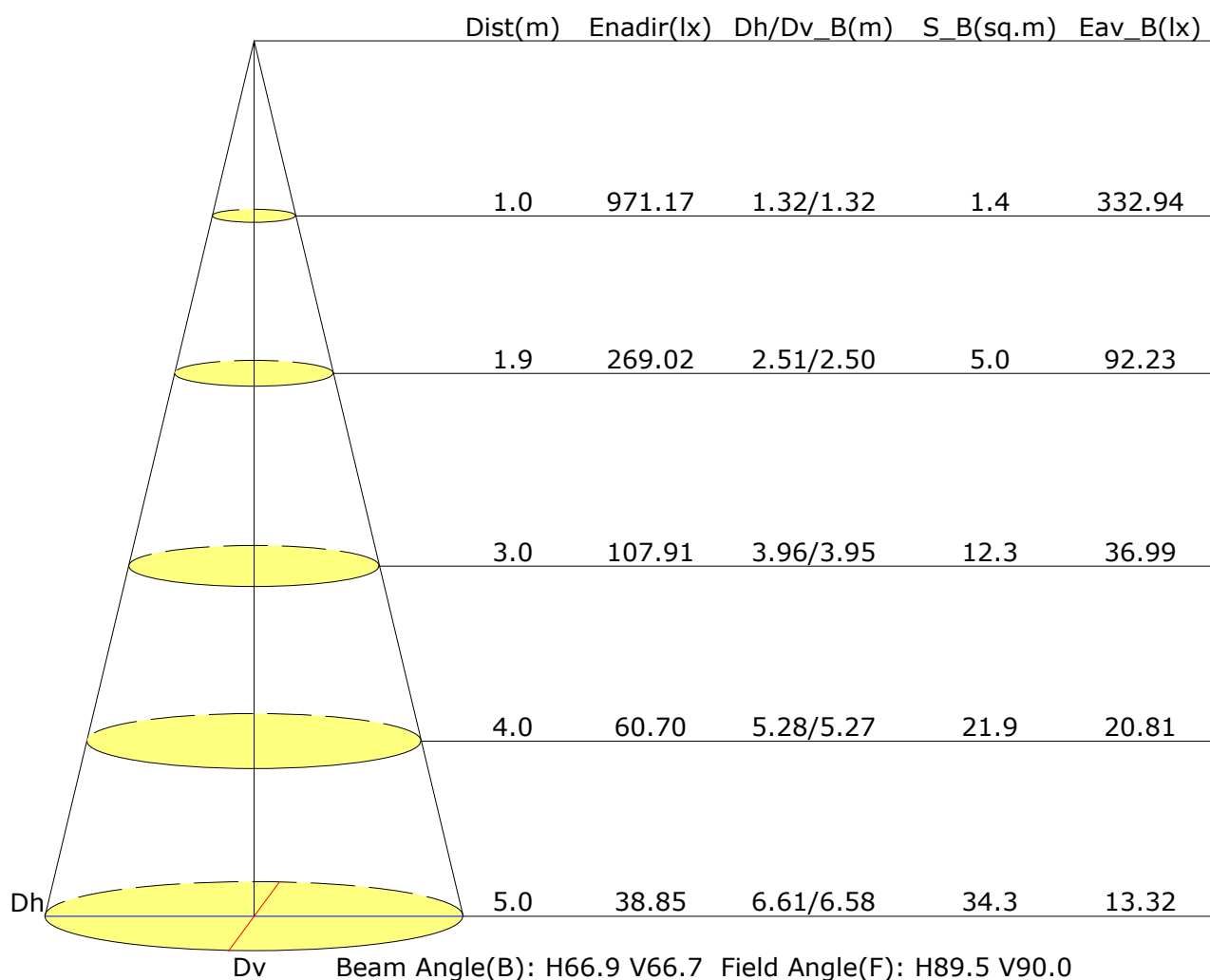
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

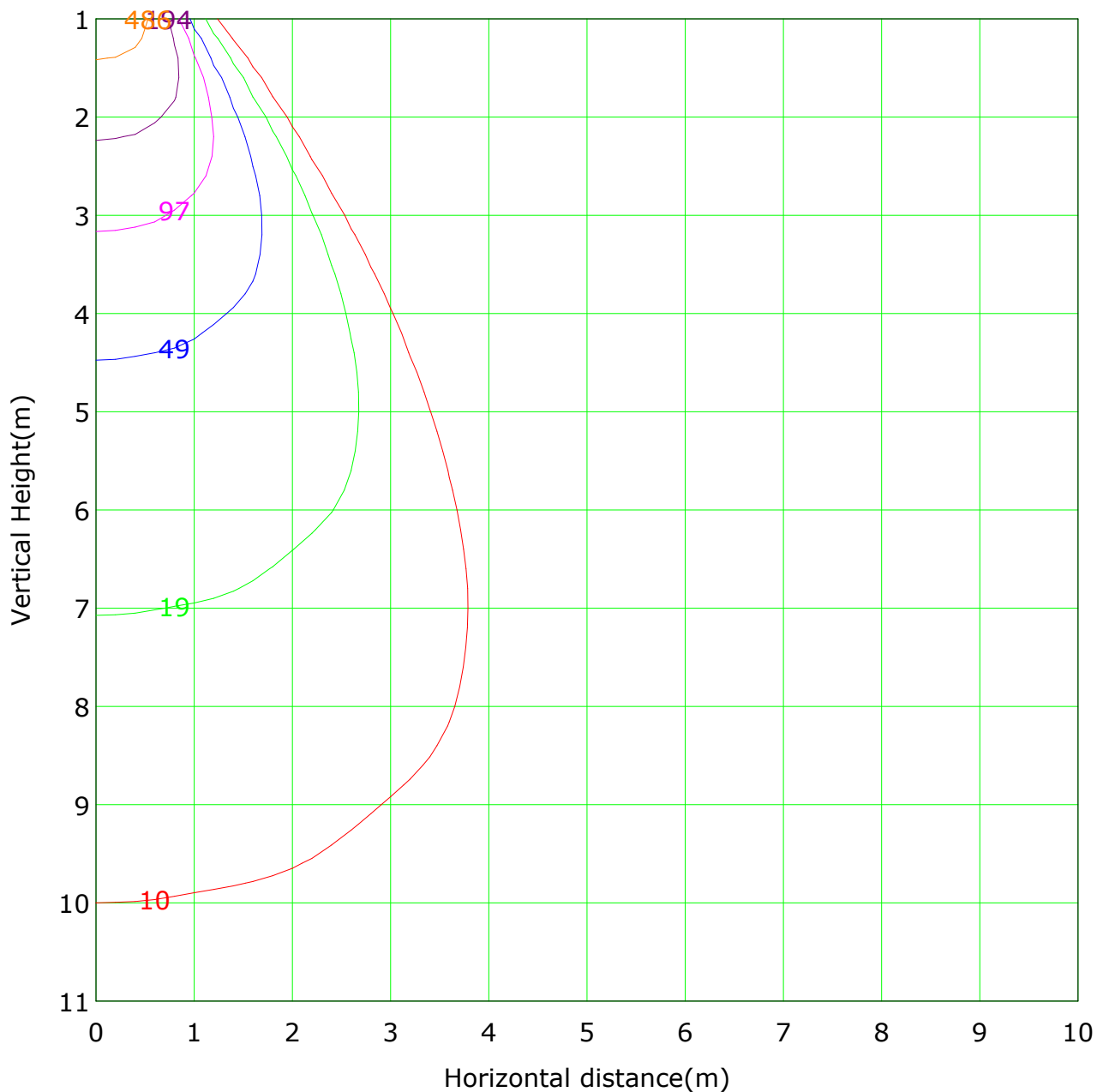
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 971.2 lx

— (1%): 9.7 lx	— (2%): 19.4 lx
— (5%): 48.6 lx	— (10%): 97.1 lx
— (20%): 194.2 lx	— (50%): 485.6 lx
— (100%): 971.2 lx	

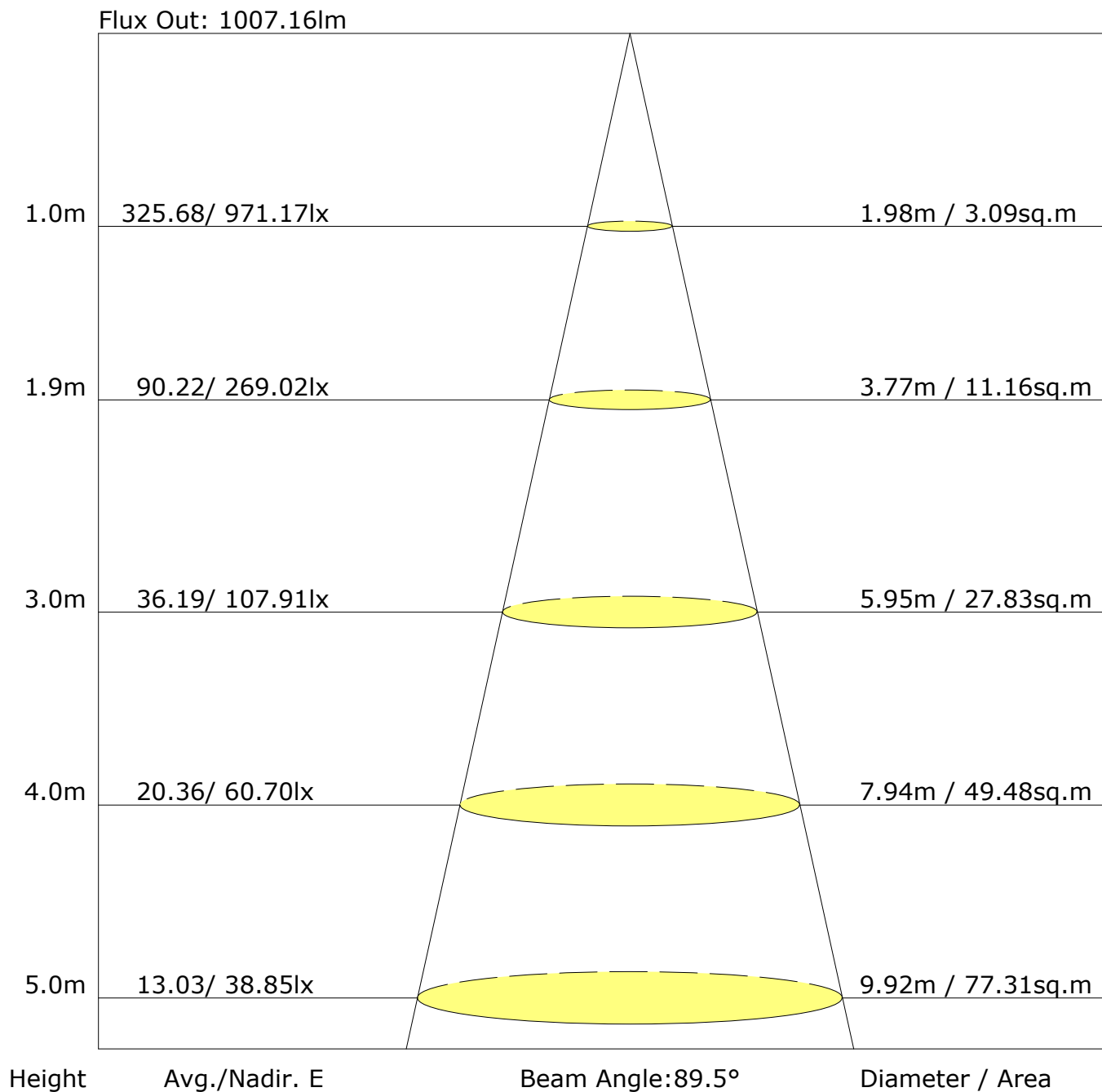
Area Flux Table

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	
	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	
	-60	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0	3.6	0.0	
	-50	0.0	0.0	0.0	0.1	0.2	0.7	1.6	2.8	3.7	3.5	2.4	1.2	0.5	0.1	0.0	0.0	0.0	16.8	8.5	
	-40	0.0	0.0	0.0	0.1	0.6	2.2	5.7	10.3	13.1	12.6	9.0	4.3	1.5	0.4	0.1	0.0	0.0	59.9	55.8	
	-30	0.0	0.0	0.0	0.3	1.3	5.4	13.3	20.0	23.1	22.8	18.7	10.8	3.6	0.8	0.1	0.0	0.0	120.2	117.2	
	-20	0.0	0.0	0.1	0.4	2.3	9.5	19.2	25.0	27.4	27.3	24.3	16.8	6.4	1.3	0.2	0.0	0.0	160.3	157.9	
	-10	0.0	0.0	0.1	0.5	3.2	12.1	21.7	26.8	29.0	28.9	26.3	19.7	8.2	1.6	0.2	0.0	0.0	178.3	176.1	
	0	0.0	0.0	0.1	0.5	3.1	12.0	21.6	26.7	28.9	28.8	26.2	19.6	8.1	1.5	0.2	0.0	0.0	177.4	175.1	
	10	0.0	0.0	0.1	0.4	2.3	9.2	18.8	24.7	27.1	26.9	24.0	16.4	6.1	1.2	0.2	0.0	0.0	157.4	154.9	
	20	0.0	0.0	0.0	0.3	1.3	5.1	12.5	19.2	22.3	22.0	17.8	10.0	3.2	0.7	0.1	0.0	0.0	114.5	111.5	
	30	0.0	0.0	0.0	0.1	0.6	1.9	5.1	9.1	11.5	11.1	7.8	3.7	1.2	0.3	0.1	0.0	0.0	52.7	48.2	
	40	0.0	0.0	0.0	0.1	0.2	0.6	1.3	2.3	2.9	2.7	1.9	1.0	0.4	0.1	0.0	0.0	0.0	13.5	4.9	
	50	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	2.9	0.0	
	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	
	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	
	Flux(T)	0.0	0.1	0.4	2.9	15.4	59.2	121.7	168.1	190.5	188.1	159.5	104.2	39.5	8.1	1.4	0.2	0.1	0.0	1059	
Flux(E)	0.0	0.0	0.0	0.0	9.1	54.9	118.0	164.5	186.9	184.5	155.7	100.2	34.6	1.7	0.0	0.0	0.0	0.0		1010	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
		Horizontal plane																			
		Flux(T)Flux(E)																			

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	18.4	19.4	18.7	19.6	19.8	19.5	20.4	19.8	20.6	20.8
3H	18.3	19.1	18.6	19.4	19.6	19.3	20.2	19.6	20.4	20.7
4H	18.2	19.0	18.5	19.2	19.5	19.3	20.0	19.6	20.3	20.6
6H	18.1	18.9	18.5	19.1	19.4	19.2	19.9	19.5	20.2	20.5
8H	18.1	18.8	18.5	19.1	19.4	19.2	19.8	19.5	20.1	20.4
12H	18.1	18.7	18.4	19.0	19.4	19.1	19.8	19.5	20.1	20.4
X=4H Y=2H	18.2	19.0	18.6	19.3	19.5	19.3	20.0	19.6	20.3	20.6
3H	18.1	18.7	18.4	19.0	19.4	19.1	19.8	19.5	20.1	20.4
4H	18.0	18.6	18.4	18.9	19.3	19.0	19.6	19.4	20.0	20.3
6H	17.9	18.4	18.3	18.8	19.2	19.0	19.5	19.4	19.8	20.2
8H	17.9	18.3	18.3	18.7	19.1	18.9	19.4	19.4	19.8	20.2
12H	17.8	18.3	18.3	18.7	19.1	18.9	19.3	19.3	19.7	20.1
X=8H Y=4H	17.9	18.3	18.3	18.7	19.1	18.9	19.4	19.4	19.8	20.2
6H	17.8	18.2	18.3	18.6	19.1	18.8	19.2	19.3	19.6	20.1
8H	17.8	18.1	18.2	18.5	19.0	18.8	19.1	19.3	19.6	20.1
12H	17.7	18.0	18.2	18.5	19.0	18.8	19.1	19.3	19.5	20.0
X=12H Y=4H	17.8	18.3	18.3	18.7	19.1	18.9	19.3	19.3	19.7	20.1
6H	17.8	18.1	18.2	18.5	19.0	18.8	19.1	19.3	19.6	20.1
8H	17.7	18.0	18.2	18.5	19.0	18.8	19.0	19.3	19.5	20.0
Variations with the observer position at spacings:										
S=1.0H	+4.7/-11.3					+4.4/-10.1				
S=1.5H	+7.5/-17.6					+7.1/-16.3				
S=2.0H	+9.5/-20.7					+9.1/-21.6				

Calculate in accordance with CIE Pub.117. The table is revised with 1059lm ($8\log(F/F_0) = 0.2$).

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
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	0.84	0.91	0.96	0.99	1.03	1.05	1.07	1.09	1.11	
	0.30		0.79	0.87	0.91	0.95	0.99	1.02	1.04	1.07	1.09	
	0.20		0.76	0.83	0.88	0.92	0.97	1.00	1.02	1.05	1.07	
0.50	0.50	0.20	0.83	0.89	0.94	0.96	1.00	1.02	1.04	1.06	1.07	
	0.30		0.79	0.86	0.90	0.93	0.97	1.00	1.01	1.04	1.05	
	0.20		0.76	0.83	0.87	0.90	0.95	0.98	1.00	1.02	1.04	
0.30	0.50	0.20	0.82	0.88	0.92	0.94	0.97	0.99	1.00	1.02	1.03	
	0.30		0.78	0.85	0.89	0.91	0.95	0.97	0.99	1.01	1.02	
	0.20		0.75	0.82	0.86	0.89	0.93	0.95	0.97	0.99	1.01	
0.00	0.00	0.00	0.74	0.80	0.84	0.87	0.90	0.92	0.93	0.95	0.96	
Rating:10W 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 = 1.00									
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	0.59	0.47	0.39	0.33	0.26	0.22	0.18	0.14	0.11	
	0.30		0.49	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
	0.20		0.42	0.35	0.30	0.27	0.22	0.18	0.16	0.12	0.10	
0.50	0.50	0.20	0.56	0.44	0.36	0.31	0.24	0.24	0.17	0.13	0.10	
	0.30		0.47	0.38	0.32	0.28	0.22	0.18	0.16	0.12	0.10	
	0.20		0.41	0.34	0.29	0.25	0.20	0.17	0.15	0.12	0.10	
0.30	0.50	0.20	0.54	0.42	0.34	0.29	0.22	0.18	0.15	0.12	0.10	
	0.30		0.46	0.37	0.31	0.26	0.21	0.17	0.15	0.11	0.09	
	0.20		0.40	0.33	0.28	0.24	0.19	0.16	0.14	0.11	0.09	
0.00	0.00	0.00	0.27	0.20	0.16	0.14	0.11	0.09	0.07	0.05	0.04	
Rating:10W 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 = 1.00									
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	0.13	0.14	0.16	0.16	0.18	0.19	0.19	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.19	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18	
0.50	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	
	0.30		0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	
	0.30		0.08	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:10W 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	969.1	0.9	0.9	0.09	0.09
1.0-2.0	968.6	2.8	3.7	0.26	0.35
2.0-3.0	967.8	4.6	8.3	0.44	0.79
3.0-4.0	966.3	6.5	14.8	0.61	1.40
4.0-5.0	964.4	8.3	23.1	0.78	2.18
5.0-6.0	962.2	10.1	33.2	0.95	3.14
6.0-7.0	959.9	11.9	45.1	1.12	4.26
7.0-8.0	957.0	13.7	58.8	1.29	5.55
8.0-9.0	953.3	15.5	74.3	1.46	7.01
9.0-10.0	949.1	17.2	91.5	1.62	8.63
10.0-11.0	944.4	18.9	110.3	1.78	10.41
11.0-12.0	939.2	20.5	130.9	1.94	12.35
12.0-13.0	933.3	22.2	153.0	2.09	14.44
13.0-14.0	926.2	23.7	176.7	2.24	16.68
14.0-15.0	918.0	25.2	201.9	2.38	19.06
15.0-16.0	908.8	26.6	228.6	2.51	21.57
16.0-17.0	898.3	28.0	256.5	2.64	24.21
17.0-18.0	887.1	29.3	285.8	2.76	26.98
18.0-19.0	874.9	30.4	316.2	2.87	29.85
19.0-20.0	862.3	31.6	347.8	2.98	32.83
20.0-21.0	849.5	32.6	380.4	3.08	35.91
21.0-22.0	835.5	33.6	414.0	3.17	39.08
22.0-23.0	820.3	34.4	448.4	3.25	42.33
23.0-24.0	803.2	35.1	483.6	3.32	45.64
24.0-25.0	783.4	35.6	519.2	3.36	49.00
25.0-26.0	760.8	35.9	555.1	3.39	52.39
26.0-27.0	734.1	35.9	591.0	3.39	55.79
27.0-28.0	704.3	35.7	626.7	3.37	59.15
28.0-29.0	672.6	35.2	661.9	3.32	62.47
29.0-30.0	637.4	34.4	696.3	3.25	65.72
30.0-31.0	599.9	33.4	729.7	3.15	68.87
31.0-32.0	560.3	32.1	761.8	3.03	71.90
32.0-33.0	519.8	30.6	792.4	2.89	74.79
33.0-34.0	479.1	29.0	821.4	2.74	77.53
34.0-35.0	435.8	27.1	848.5	2.56	80.09
35.0-36.0	393.0	25.0	873.5	2.36	82.45

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	352.0	23.0	896.5	2.17	84.61
37.0-38.0	311.4	20.8	917.3	1.96	86.58
38.0-39.0	273.7	18.7	935.9	1.76	88.34
39.0-40.0	238.3	16.6	952.6	1.57	89.91
40.0-41.0	205.3	14.6	967.2	1.38	91.29
41.0-42.0	176.8	12.8	980.0	1.21	92.50
42.0-43.0	150.8	11.2	991.2	1.05	93.56
43.0-44.0	127.7	9.6	1000.8	0.91	94.47
44.0-45.0	108.2	8.3	1009.1	0.78	95.25
45.0-46.0	91.5	7.2	1016.3	0.68	95.93
46.0-47.0	77.7	6.2	1022.5	0.58	96.51
47.0-48.0	65.8	5.3	1027.8	0.50	97.01
48.0-49.0	55.8	4.6	1032.4	0.43	97.44
49.0-50.0	47.8	4.0	1036.4	0.38	97.82
50.0-51.0	40.5	3.4	1039.8	0.32	98.14
51.0-52.0	34.2	2.9	1042.7	0.28	98.42
52.0-53.0	28.9	2.5	1045.2	0.24	98.66
53.0-54.0	24.3	2.1	1047.4	0.20	98.86
54.0-55.0	20.6	1.8	1049.2	0.17	99.03
55.0-56.0	17.3	1.6	1050.8	0.15	99.18
56.0-57.0	14.6	1.3	1052.1	0.13	99.31
57.0-58.0	12.5	1.2	1053.3	0.11	99.42
58.0-59.0	10.5	1.0	1054.3	0.09	99.51
59.0-60.0	8.8	0.8	1055.1	0.08	99.59
60.0-61.0	7.4	0.7	1055.8	0.07	99.65
61.0-62.0	6.1	0.6	1056.4	0.06	99.71
62.0-63.0	4.9	0.5	1056.9	0.04	99.75
63.0-64.0	3.8	0.4	1057.2	0.04	99.79
64.0-65.0	2.9	0.3	1057.5	0.03	99.82
65.0-66.0	2.2	0.2	1057.7	0.02	99.84
66.0-67.0	1.7	0.2	1057.9	0.02	99.85
67.0-68.0	1.2	0.1	1058.0	0.01	99.86
68.0-69.0	1.0	0.1	1058.1	0.01	99.87
69.0-70.0	0.8	0.1	1058.2	0.01	99.88
70.0-71.0	0.7	0.1	1058.3	0.01	99.89
71.0-72.0	0.7	0.1	1058.4	0.01	99.89

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:



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°): 1009.14 lm

%lum = 95.3%

%lamp = 95.3%

cone flux(120°): 1055.10 lm

%lum = 99.6%

%lamp = 99.6%



Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	971.2	967.2	971.2	967.2	971.2					
G1.0	970.7	966.4	971.1	967.6	970.7					
G2.0	970.7	965.2	970.8	966.7	970.7					
G3.0	969.5	963.8	970.5	965.0	969.5					
G4.0	966.7	961.9	969.2	964.1	966.7					
G5.0	963.1	960.1	968.2	962.2	963.1					
G6.0	960.1	957.1	967.1	960.0	960.1					
G7.0	958.7	952.5	965.8	958.0	958.7					
G8.0	957.4	946.5	962.4	954.9	957.4					
G9.0	955.1	940.8	958.1	950.9	955.1					
G10.0	952.0	935.7	953.4	946.6	952.0					
G11.0	947.3	930.1	948.1	941.9	947.3					
G12.0	941.0	925.0	942.9	936.9	941.0					
G13.0	932.0	918.6	938.0	932.2	932.0					
G14.0	919.8	911.0	931.5	926.5	919.8					
G15.0	907.3	902.6	925.4	919.7	907.3					
G16.0	894.3	892.6	918.0	910.1	894.3					
G17.0	880.6	882.1	909.1	899.7	880.6					
G18.0	867.1	871.3	899.4	887.4	867.1					
G19.0	854.8	858.3	887.0	873.8	854.8					
G20.0	842.9	846.2	875.2	860.5	842.9					
G21.0	829.6	832.8	861.2	847.9	829.6					
G22.0	812.2	817.7	848.8	834.1	812.2					
G23.0	791.8	800.7	836.3	821.0	791.8					
G24.0	768.0	780.4	823.3	804.5	768.0					
G25.0	737.6	756.9	810.4	786.3	737.6					
G26.0	705.0	731.2	795.5	763.6	705.0					
G27.0	668.7	698.1	775.2	735.5	668.7					
G28.0	632.1	666.8	750.5	707.4	632.1					
G29.0	593.2	632.1	721.4	677.3	593.2					
G30.0	549.3	592.5	692.3	640.8	549.3					
G31.0	503.3	553.8	661.4	605.8	503.3					
G32.0	456.4	511.0	625.5	565.2	456.4					
G33.0	412.3	470.9	589.8	526.9	412.3					
G34.0	368.1	428.5	550.2	485.8	368.1					
G35.0	323.0	382.0	506.9	442.1	323.0					
G36.0	282.7	340.2	466.0	401.0	282.7					

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	247.4	297.5	420.6	360.5	247.4					
G38.0	210.2	260.1	378.2	316.4	210.2					
G39.0	180.2	225.8	338.4	280.0	180.2					
G40.0	150.1	192.4	296.5	243.1	150.1					
G41.0	126.1	163.8	259.5	210.6	126.1					
G42.0	105.9	138.8	227.4	182.1	105.9					
G43.0	88.5	115.9	193.9	154.0	88.5					
G44.0	74.6	99.0	164.5	130.9	74.6					
G45.0	63.7	82.8	137.5	112.2	63.7					
G46.0	53.3	71.0	116.5	94.9	53.3					
G47.0	45.6	60.7	97.8	81.5	45.6					
G48.0	38.5	51.4	81.8	68.8	38.5					
G49.0	32.8	44.3	69.7	59.2	32.8					
G50.0	27.9	38.0	59.8	50.4	27.9					
G51.0	23.1	32.2	50.4	42.3	23.1					
G52.0	19.1	27.5	43.3	36.0	19.1					
G53.0	15.4	22.9	36.6	30.6	15.4					
G54.0	13.1	18.9	31.5	25.4	13.1					
G55.0	11.8	15.8	27.0	21.1	11.8					
G56.0	10.1	13.5	22.7	16.9	10.1					
G57.0	8.5	11.9	19.0	14.5	8.5					
G58.0	7.1	10.3	15.7	12.9	7.1					
G59.0	5.7	8.5	13.0	11.0	5.7					
G60.0	4.5	7.1	11.6	9.3	4.5					
G61.0	3.5	5.6	9.9	7.8	3.5					
G62.0	2.5	4.4	8.4	6.4	2.5					
G63.0	1.8	3.3	7.0	5.1	1.8					
G64.0	1.2	2.4	5.6	4.0	1.2					
G65.0	0.8	1.7	4.5	3.0	0.8					
G66.0	0.7	1.1	3.5	2.3	0.7					
G67.0	0.7	0.9	2.7	1.5	0.7					
G68.0	0.7	0.8	1.9	0.8	0.7					
G69.0	0.6	0.8	1.3	0.8	0.6					
G70.0	0.6	0.8	0.8	0.7	0.6					
G71.0	0.6	0.7	0.7	0.6	0.6					
G72.0	0.6	0.7	0.6	0.6	0.6					
G73.0	0.6	0.7	0.7	0.6	0.6					

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

[illegible]

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