

Report No.:

Test Time: 2024-04-15 10:41

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 4000K

Number of Lamps:

Luminous Length (mm): 300

Luminous Height (mm):

Current: 0.1010 A

Power Factor: 0.9540

Luminaire Description: RAVOLI2300A

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 300

Voltage: 231.30 V

Power: 22.22 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2664.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H114.7

Vertical Diffuse Angle(50%): V110.1

Luminous Efficacy (lm/w): 119.93

Max. Intensity: 924.87 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 2664.8 lm

Efficiency: 100%

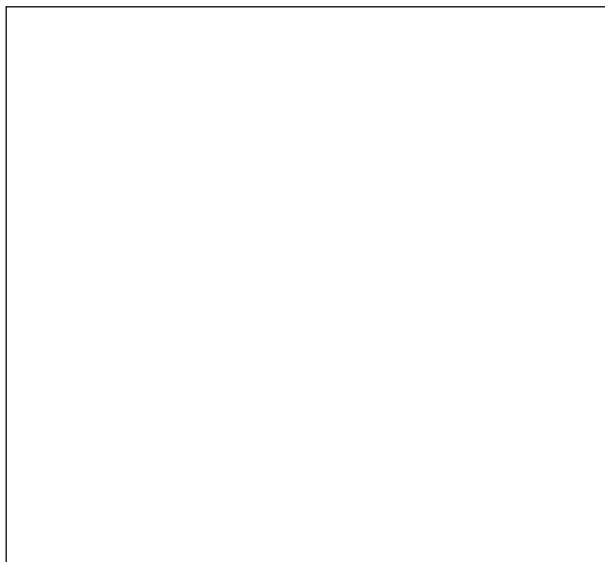
Upward Ratio: 0%

C0r0 Intensity: 924.74 cd

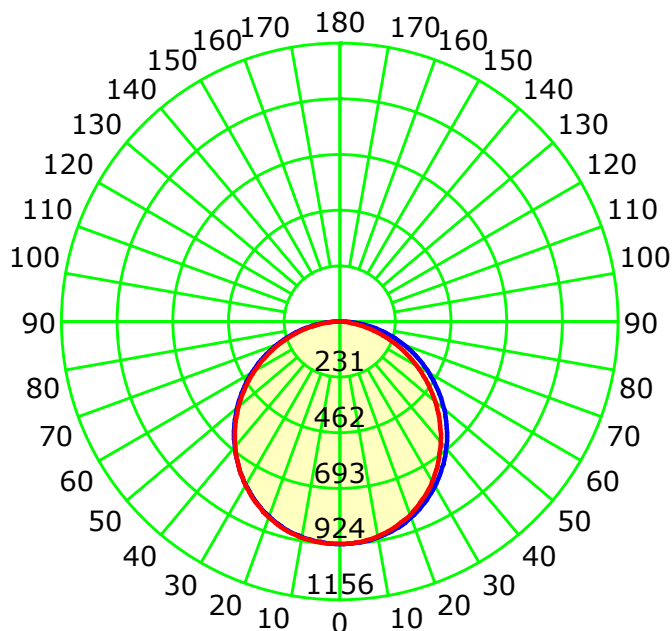
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.25

Picture Of Luminaire

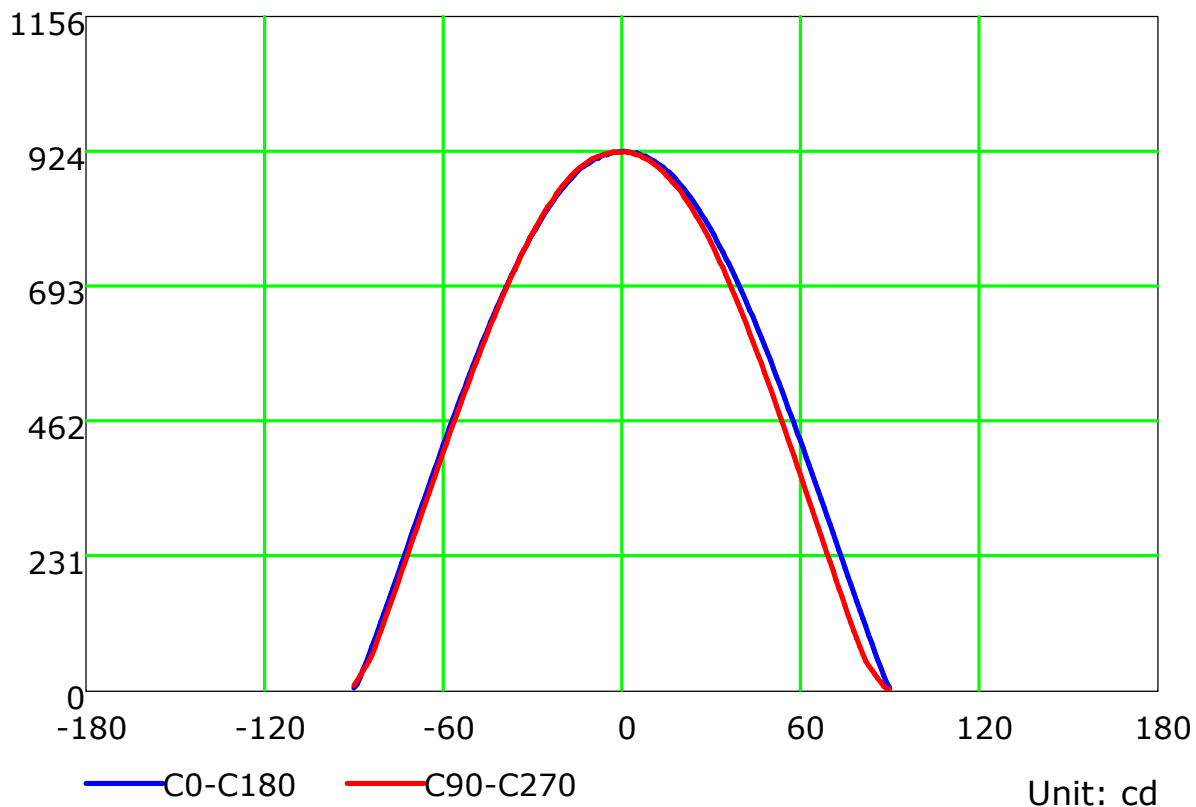
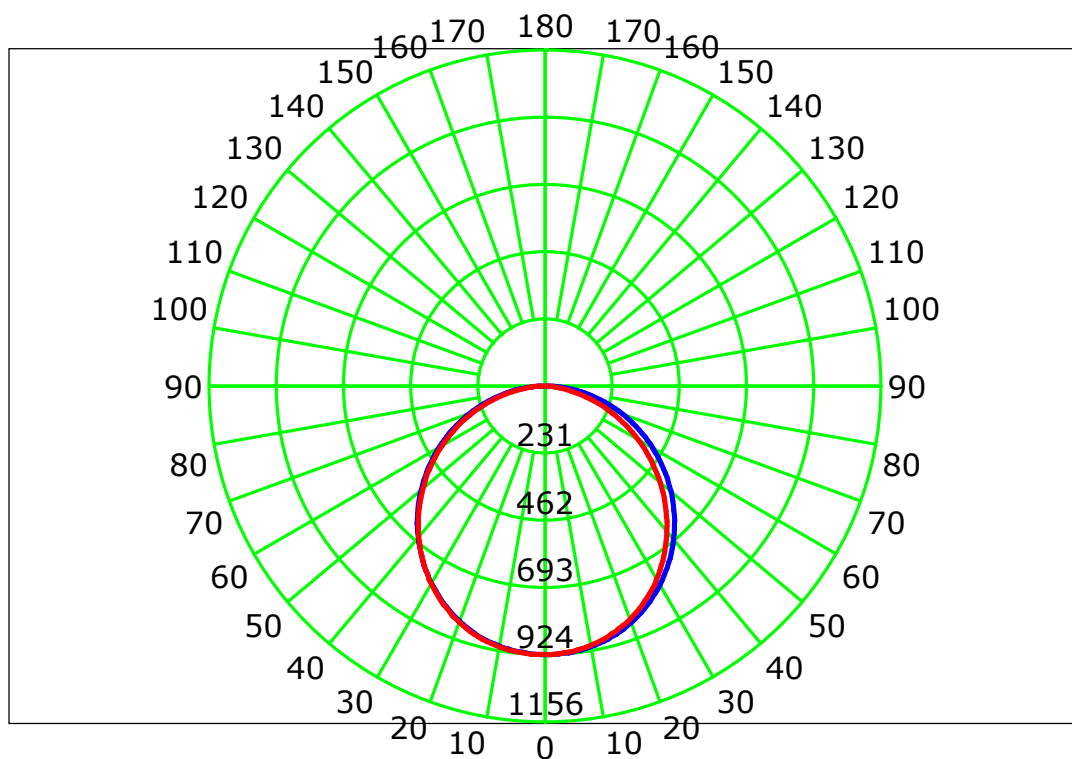


Luminous Intensity Distribution Curve





Luminous Intensity Distribution Curve

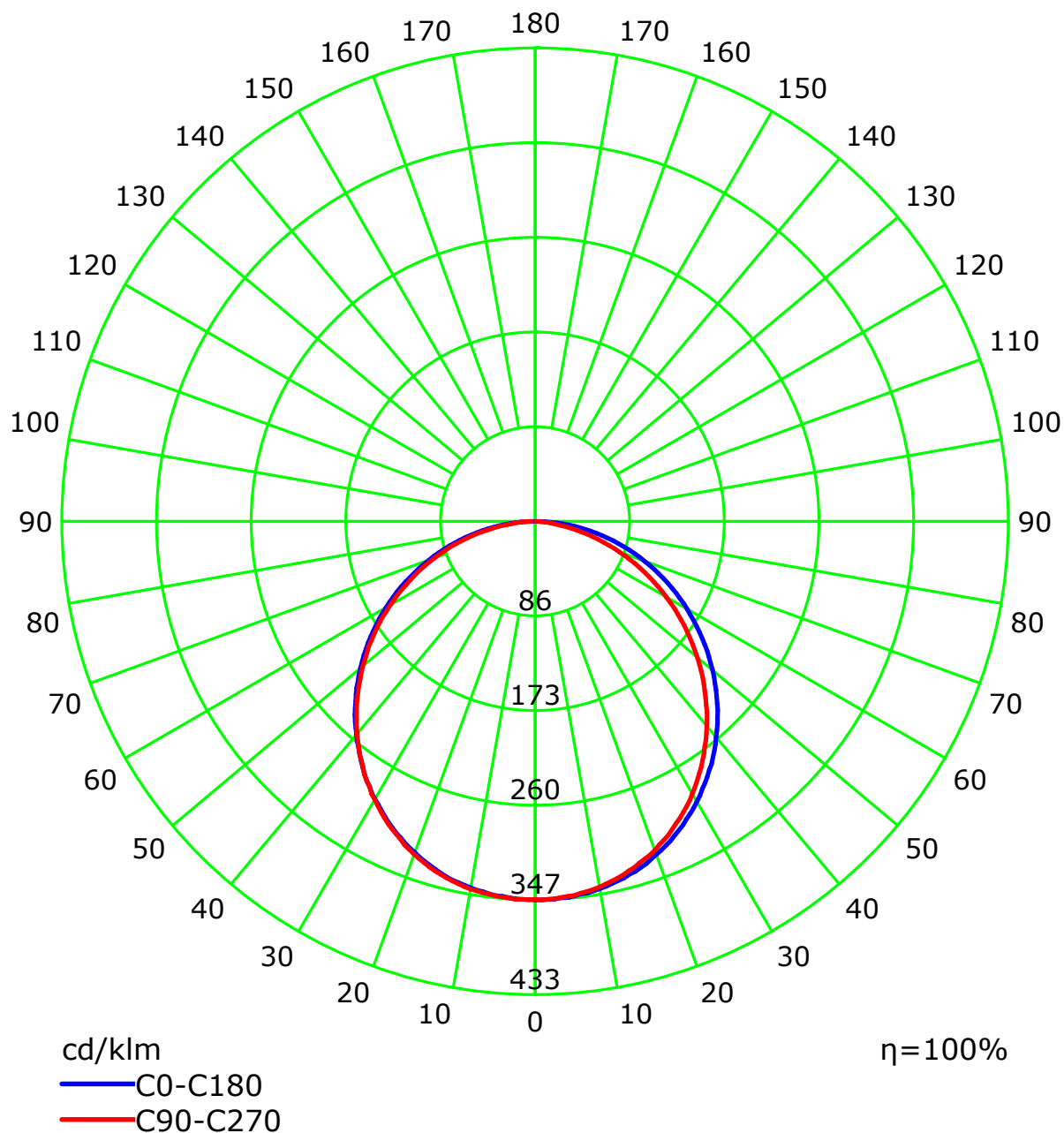


C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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:

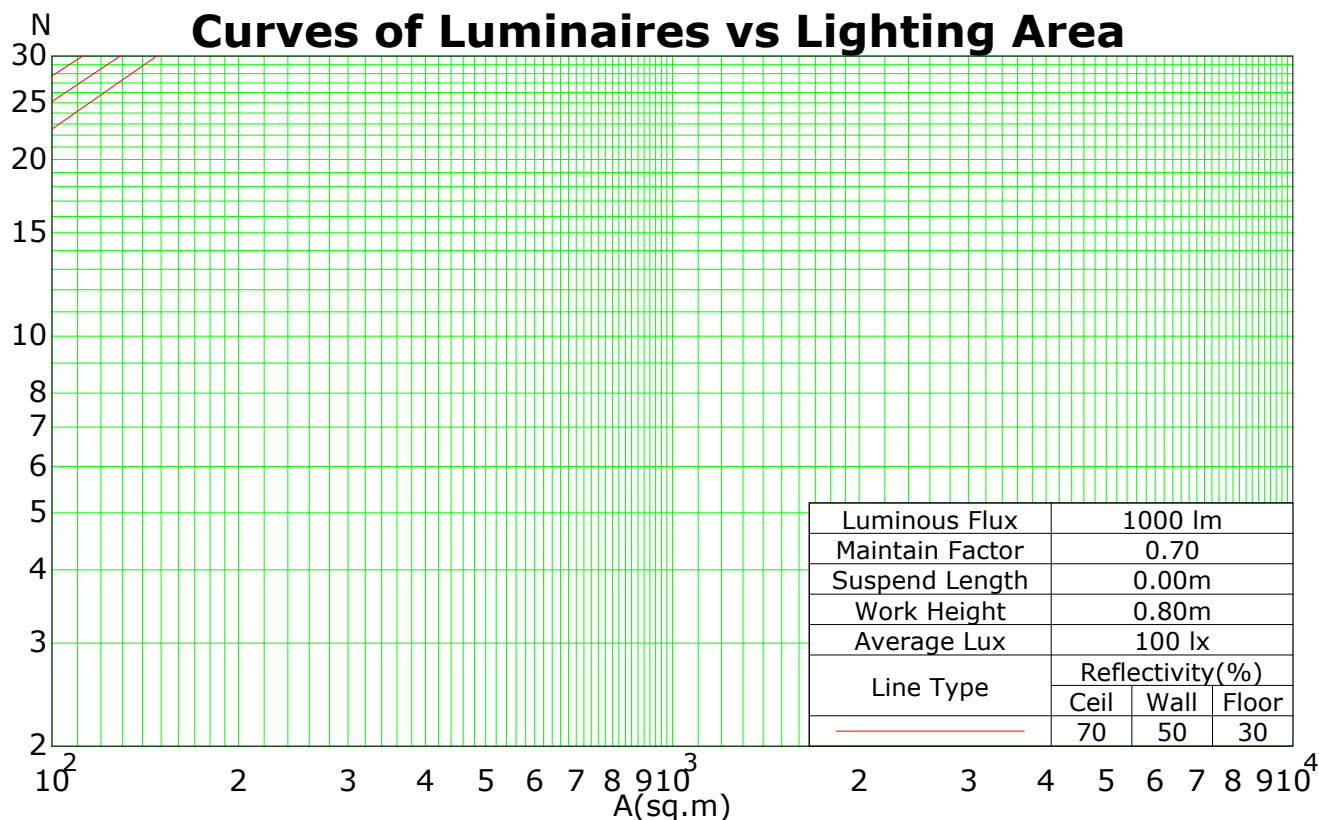
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:



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	1.08	1.04	0.99	0.95	1.06	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.98	0.90	0.83	0.77	0.96	0.88	0.82	0.76	0.85	0.79	0.75	0.81	0.77	0.73	0.78	0.75	0.71	0.69
3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.63	0.74	0.68	0.62	0.72	0.66	0.61	0.69	0.64	0.60	0.58
4	0.82	0.70	0.61	0.54	0.80	0.69	0.60	0.54	0.66	0.59	0.53	0.64	0.57	0.52	0.61	0.56	0.52	0.49
5	0.75	0.62	0.53	0.47	0.73	0.61	0.53	0.46	0.59	0.52	0.46	0.57	0.50	0.45	0.55	0.49	0.45	0.43
6	0.70	0.56	0.47	0.41	0.68	0.55	0.47	0.40	0.53	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.39	0.37
7	0.65	0.51	0.42	0.36	0.63	0.50	0.42	0.36	0.49	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.33
8	0.60	0.46	0.38	0.32	0.59	0.46	0.38	0.32	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.29
9	0.56	0.43	0.34	0.29	0.55	0.42	0.34	0.29	0.41	0.34	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.26
10	0.53	0.39	0.31	0.26	0.51	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.26	0.24

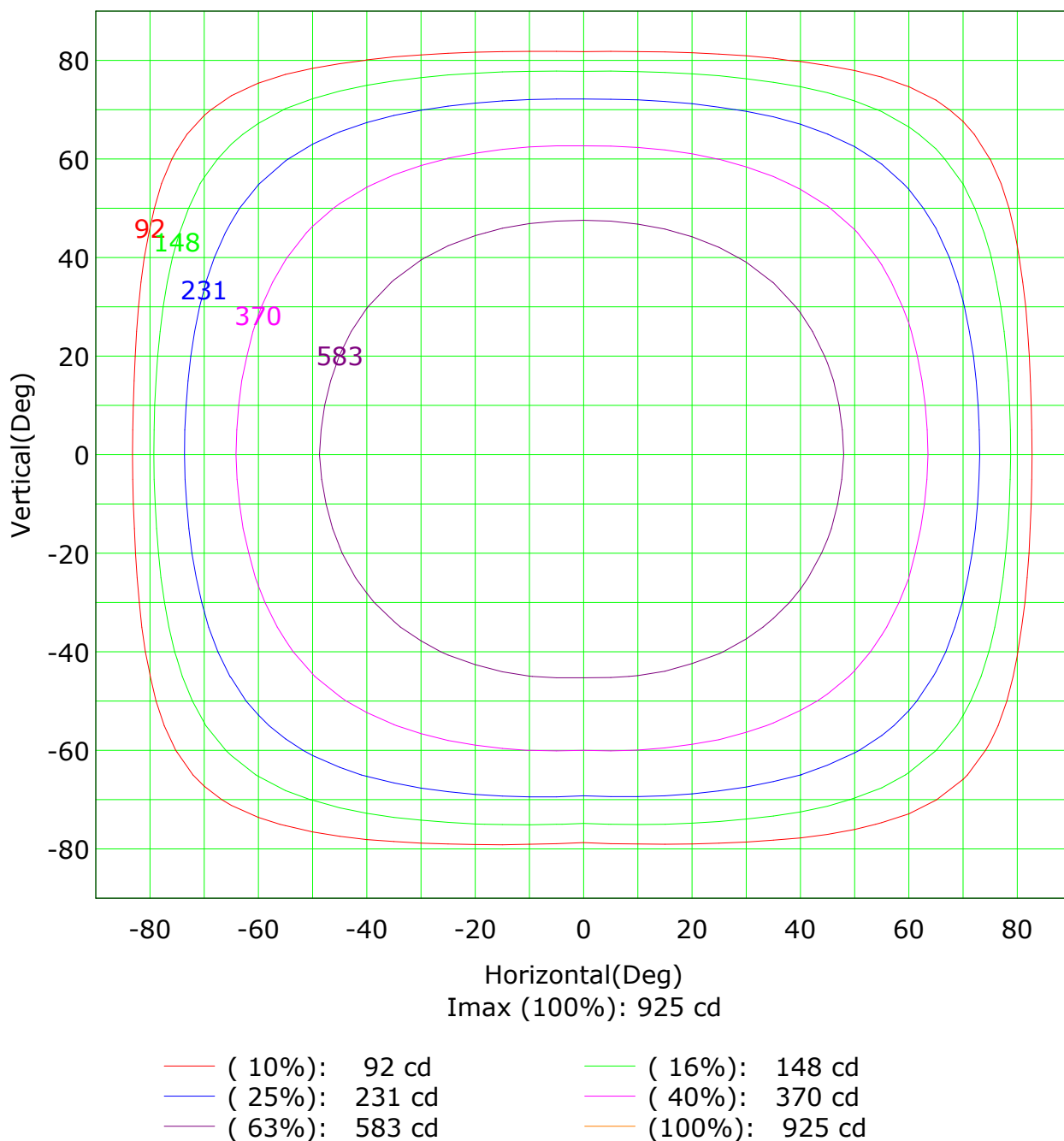
Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.25
Spacing Criteria (Diagonal): 1.37



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:

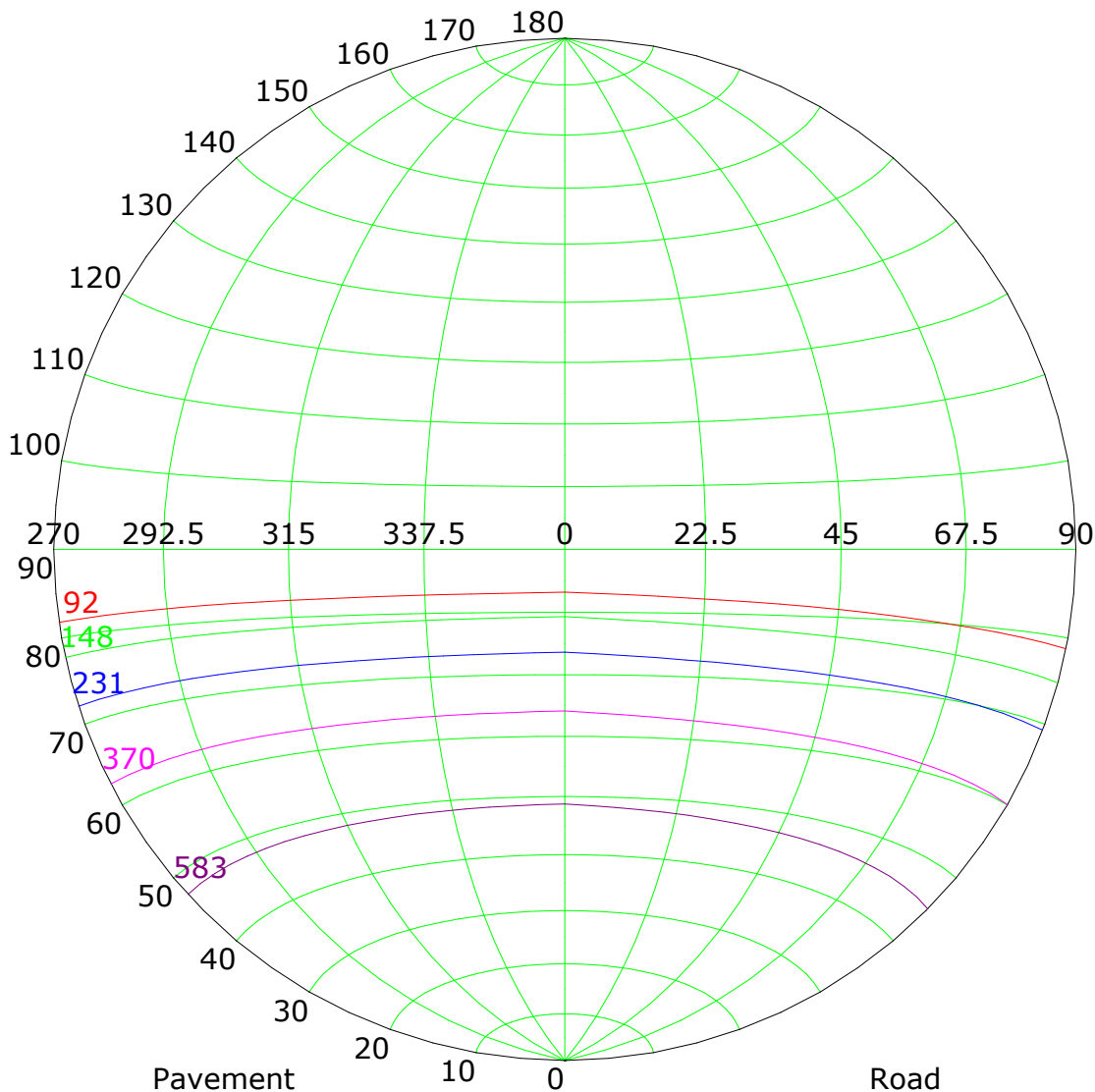
Isocandela (rectangle)



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%): 925 cd

(10%): 92 cd	(16%): 148 cd
(25%): 231 cd	(40%): 370 cd
(63%): 583 cd	(100%): 925 cd

CIE: narrow - short
 CIE: Semi-cut-off luminaire
 Max.At90: 3.276 cd/klm

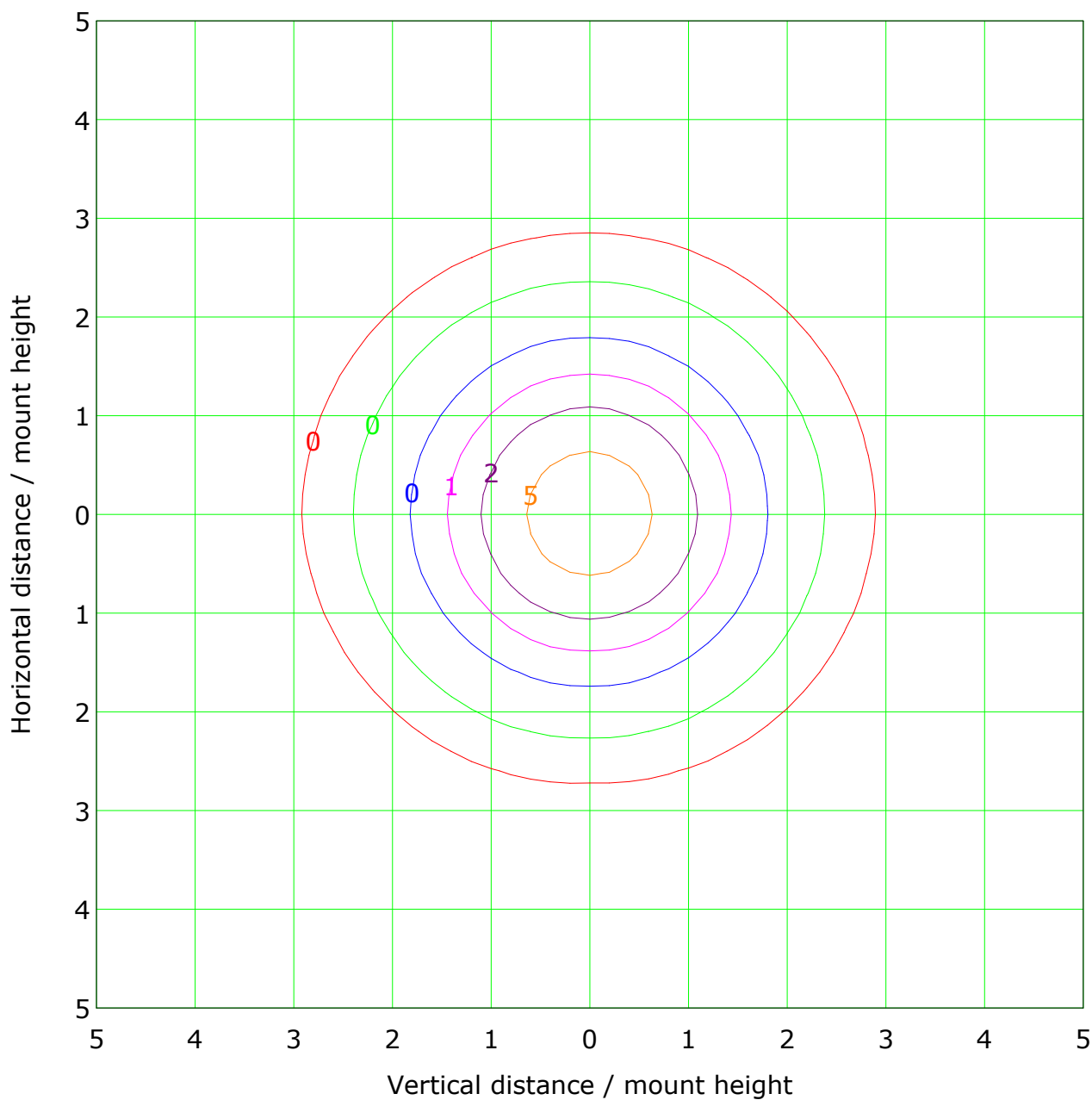
IES: Cut-off
 Max.At80: 51.609 cd/klm
 Max.80-90: 51.609 cd/klm

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:



IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 9.2 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.5 lx	(10%): 0.9 lx
(20%): 1.8 lx	(50%): 4.6 lx
(100%): 9.2 lx	

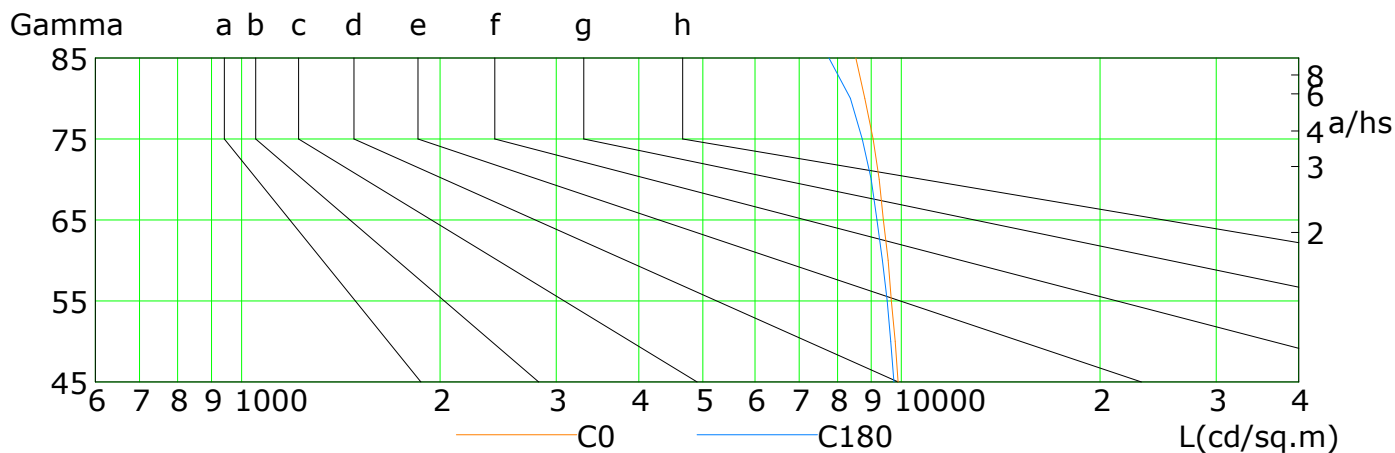
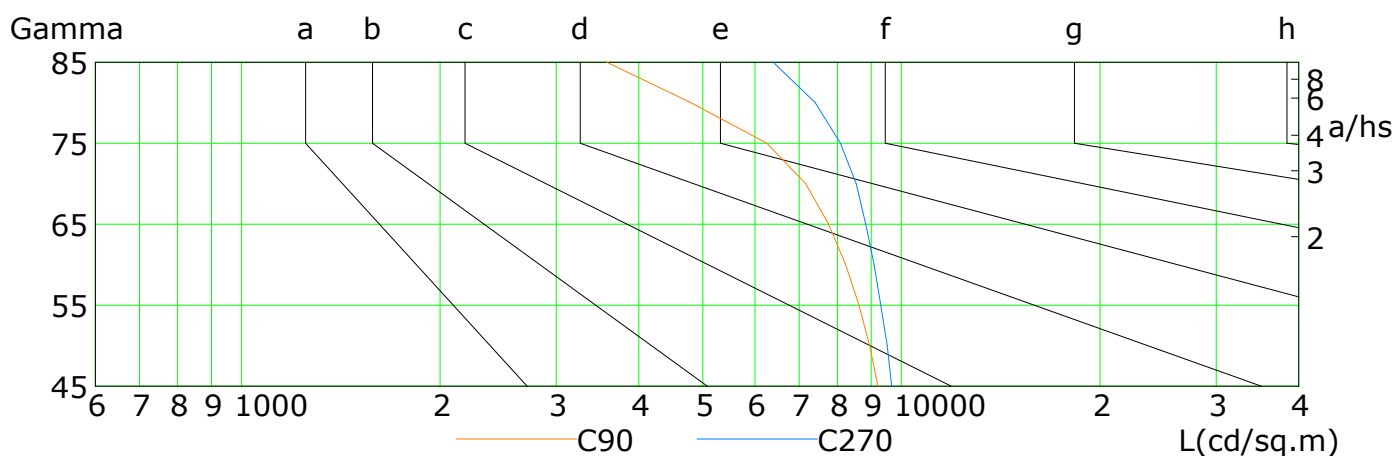
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	9890	9789	9658	9543	9392	9250	9057	8800	8526
C90	9216	8949	8624	8234	7758	7156	6254	4796	3579
C180	9748	9633	9515	9362	9182	8995	8722	8371	7766
C270	9670	9512	9304	9089	8827	8538	8080	7398	6392

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

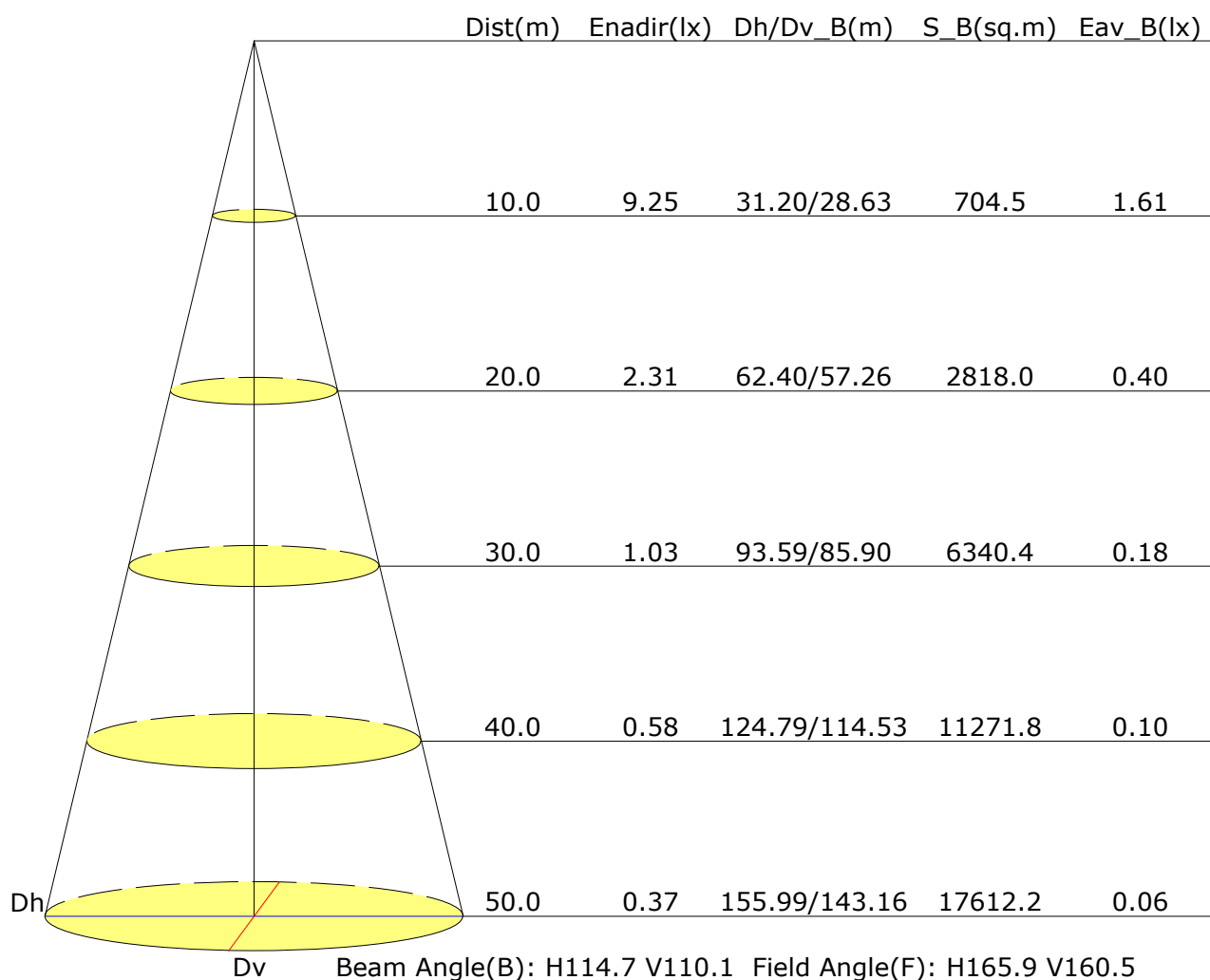
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

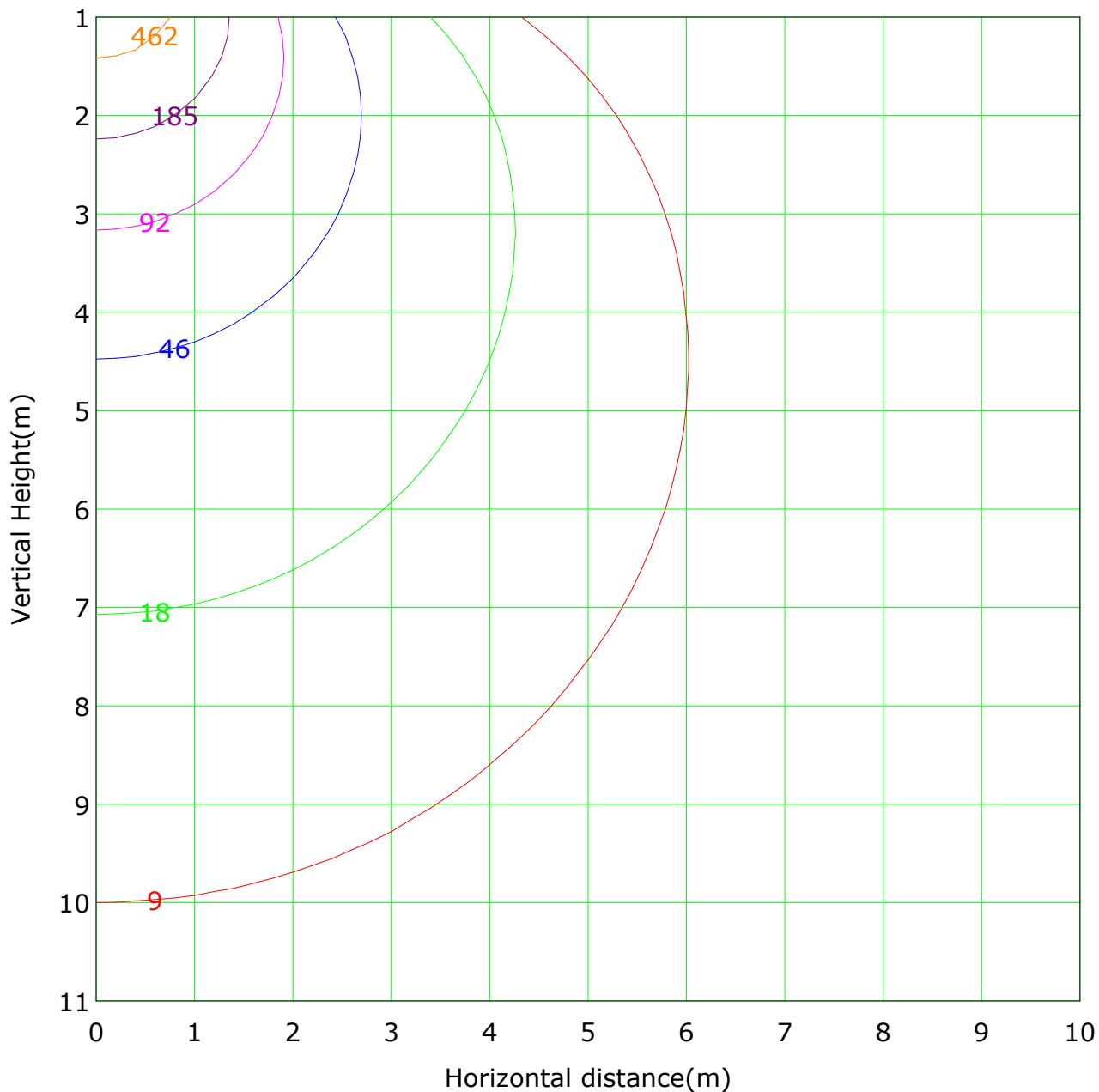
Illuminance at a Distance



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: 924.7 lx

— (1%): 9.2 lx	— (2%): 18.5 lx
— (5%): 46.2 lx	— (10%): 92.5 lx
— (20%): 184.9 lx	— (50%): 462.4 lx
— (100%): 924.7 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:

Area Flux Table

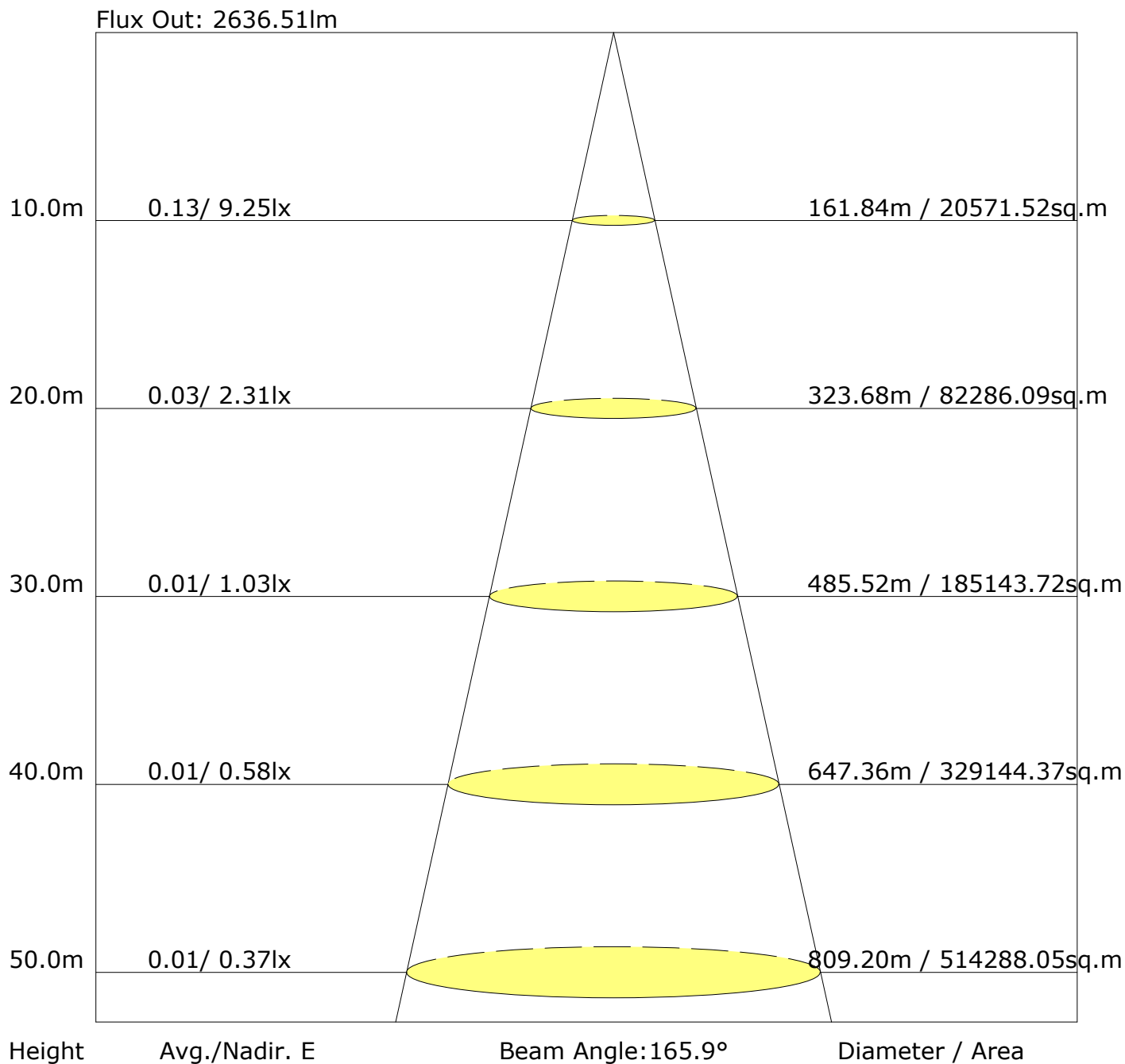
Unit: lm

Vertical plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(T)	2.5	18.1	49.3	93.1	144.4	197.1	244.4	279.8	298.2	298.5	280.8	246.0	199.0	146.4	94.8	50.7	19.0	2.7	2665
Flux(E)	0.8	15.9	47.1	90.8	142.1	194.7	242.0	277.5	295.9	296.2	278.5	243.6	196.7	144.1	92.6	48.6	16.8	1.0	2625
Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
0	0.2	1.6	4.5	8.5	13.3	18.2	22.6	25.9	27.7	27.7	26.0	22.7	18.3	13.4	8.7	4.6	1.7	0.2	245.9
10	0.2	1.6	4.5	8.5	13.3	18.2	22.6	25.9	27.7	27.7	26.0	22.7	18.3	13.4	8.7	4.6	1.7	0.2	245.9
20	0.2	1.6	4.3	8.2	12.7	17.4	21.7	24.9	26.6	26.6	25.0	21.8	17.6	12.9	8.3	4.4	1.6	0.2	236.1
30	0.2	1.5	4.0	7.5	11.7	16.1	20.0	23.0	24.6	24.6	23.0	20.1	16.2	11.9	7.6	4.1	1.5	0.2	217.8
40	0.2	1.3	3.5	6.7	10.4	14.2	17.6	20.2	21.5	21.5	20.2	17.7	14.3	10.5	6.8	3.6	1.3	0.2	191.5
50	0.1	1.1	2.9	5.6	8.6	11.8	14.6	16.7	17.7	17.8	16.7	14.7	11.9	8.7	5.7	3.0	1.1	0.2	158.9
60	0.1	0.8	2.3	4.3	6.7	9.1	11.2	12.7	13.5	13.5	12.8	11.3	9.2	6.8	4.4	2.4	0.9	0.1	122.0
70	0.1	0.6	1.6	3.0	4.6	6.2	7.6	8.6	9.0	9.0	8.6	7.6	6.3	4.6	3.0	1.6	0.6	0.1	82.6
80	0.0	0.3	0.9	1.6	2.4	3.2	3.9	4.4	4.5	4.5	4.4	4.0	3.3	2.5	1.7	0.9	0.4	0.1	43.0
90	0.0	0.1	0.3	0.5	0.7	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.7	0.5	0.3	0.1	0.0	10.9

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	21.9	20.8	22.2	22.4	20.2	21.6	20.5	21.9	22.1
3H	22.3	23.5	22.6	23.8	24.1	21.8	23.0	22.1	23.3	23.6
4H	23.0	24.2	23.4	24.5	24.8	22.4	23.6	22.7	23.9	24.2
6H	23.6	24.8	24.0	25.1	25.4	22.8	23.9	23.2	24.2	24.6
8H	23.9	25.0	24.2	25.3	25.6	22.9	24.0	23.3	24.3	24.7
12H	24.0	25.1	24.4	25.4	25.8	23.0	24.1	23.4	24.4	24.7
X=4H Y=2H	21.2	22.4	21.5	22.7	23.0	21.0	22.2	21.3	22.5	22.8
3H	23.1	24.2	23.5	24.5	24.8	22.7	23.7	23.1	24.1	24.4
4H	24.0	24.9	24.4	25.3	25.7	23.5	24.4	23.9	24.7	25.1
6H	24.8	25.6	25.2	26.0	26.4	24.0	24.8	24.4	25.2	25.6
8H	25.1	25.8	25.5	26.2	26.6	24.2	24.9	24.6	25.3	25.8
12H	25.3	26.0	25.7	26.4	26.8	24.3	25.0	24.8	25.4	25.9
X=8H Y=4H	24.3	25.1	24.8	25.5	25.9	23.8	24.6	24.3	25.0	25.4
6H	25.2	25.8	25.7	26.3	26.7	24.5	25.1	25.0	25.6	26.0
8H	25.6	26.2	26.1	26.6	27.1	24.8	25.3	25.3	25.8	26.3
12H	25.9	26.4	26.4	26.9	27.4	25.0	25.5	25.5	25.9	26.4
X=12H Y=4H	24.3	25.0	24.8	25.4	25.9	23.9	24.5	24.3	25.0	25.4
6H	25.3	25.8	25.8	26.3	26.8	24.6	25.2	25.1	25.6	26.1
8H	25.7	26.2	26.2	26.7	27.2	24.9	25.4	25.4	25.9	26.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.3/-0.4					+0.3/-0.4				
S=2.0H	+0.5/-0.7					+0.5/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 2665lm ($8\log(F/F_0) = 3.4$).

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	0.56	0.66	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.92	0.96	0.99	
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.96	
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.30		0.47	0.56	0.63	0.69	0.76	0.81	0.85	0.89	0.92	
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.69	0.74	0.77	0.82	0.85	
Rating:22W 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	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:22W 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	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	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		0.04	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.04	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:22W 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	924.2	0.9	0.9	0.03	0.03
1.0-2.0	923.9	2.7	3.5	0.10	0.13
2.0-3.0	923.4	4.4	8.0	0.17	0.30
3.0-4.0	922.4	6.2	14.1	0.23	0.53
4.0-5.0	920.9	7.9	22.1	0.30	0.83
5.0-6.0	919.9	9.7	31.7	0.36	1.19
6.0-7.0	918.0	11.4	43.1	0.43	1.62
7.0-8.0	915.7	13.1	56.2	0.49	2.11
8.0-9.0	913.6	14.8	71.0	0.56	2.67
9.0-10.0	910.9	16.5	87.5	0.62	3.28
10.0-11.0	907.7	18.1	105.7	0.68	3.96
11.0-12.0	904.2	19.8	125.4	0.74	4.71
12.0-13.0	900.7	21.4	146.8	0.80	5.51
13.0-14.0	897.1	23.0	169.8	0.86	6.37
14.0-15.0	892.4	24.5	194.3	0.92	7.29
15.0-16.0	887.5	26.0	220.3	0.98	8.27
16.0-17.0	882.4	27.5	247.8	1.03	9.30
17.0-18.0	876.8	28.9	276.7	1.09	10.38
18.0-19.0	871.2	30.3	307.0	1.14	11.52
19.0-20.0	865.0	31.7	338.7	1.19	12.71
20.0-21.0	858.4	33.0	371.6	1.24	13.95
21.0-22.0	851.8	34.2	405.9	1.28	15.23
22.0-23.0	844.7	35.4	441.3	1.33	16.56
23.0-24.0	836.8	36.6	477.9	1.37	17.93
24.0-25.0	829.1	37.7	515.6	1.41	19.35
25.0-26.0	821.5	38.8	554.4	1.46	20.80
26.0-27.0	813.2	39.8	594.2	1.49	22.30
27.0-28.0	804.2	40.7	634.9	1.53	23.83
28.0-29.0	795.5	41.6	676.5	1.56	25.39
29.0-30.0	786.4	42.5	719.0	1.59	26.98
30.0-31.0	777.2	43.3	762.2	1.62	28.60
31.0-32.0	767.2	44.0	806.2	1.65	30.25
32.0-33.0	756.9	44.6	850.8	1.67	31.93
33.0-34.0	747.3	45.2	896.0	1.70	33.62
34.0-35.0	736.4	45.7	941.8	1.72	35.34
35.0-36.0	725.2	46.2	988.0	1.73	37.07

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	714.4	46.6	1034.6	1.75	38.82
37.0-38.0	703.2	46.9	1081.5	1.76	40.58
38.0-39.0	692.0	47.2	1128.7	1.77	42.36
39.0-40.0	680.3	47.5	1176.2	1.78	44.14
40.0-41.0	668.4	47.6	1223.8	1.79	45.92
41.0-42.0	656.8	47.7	1271.5	1.79	47.72
42.0-43.0	644.5	47.8	1319.3	1.79	49.51
43.0-44.0	632.0	47.7	1367.0	1.79	51.30
44.0-45.0	619.5	47.6	1414.6	1.79	53.08
45.0-46.0	606.7	47.4	1462.0	1.78	54.86
46.0-47.0	594.1	47.3	1509.3	1.77	56.64
47.0-48.0	580.8	47.0	1556.3	1.76	58.40
48.0-49.0	567.5	46.6	1602.9	1.75	60.15
49.0-50.0	554.6	46.2	1649.1	1.74	61.88
50.0-51.0	540.8	45.8	1694.9	1.72	63.60
51.0-52.0	526.8	45.2	1740.1	1.70	65.30
52.0-53.0	513.5	44.7	1784.8	1.68	66.98
53.0-54.0	499.8	44.1	1828.8	1.65	68.63
54.0-55.0	485.7	43.4	1872.2	1.63	70.26
55.0-56.0	471.5	42.6	1914.8	1.60	71.85
56.0-57.0	457.3	41.8	1956.6	1.57	73.42
57.0-58.0	443.7	41.0	1997.6	1.54	74.96
58.0-59.0	429.1	40.1	2037.8	1.51	76.47
59.0-60.0	414.4	39.2	2076.9	1.47	77.94
60.0-61.0	400.2	38.2	2115.1	1.43	79.37
61.0-62.0	385.5	37.2	2152.3	1.39	80.77
62.0-63.0	371.3	36.1	2188.4	1.36	82.12
63.0-64.0	356.7	35.0	2223.4	1.31	83.44
64.0-65.0	341.7	33.8	2257.2	1.27	84.70
65.0-66.0	327.2	32.7	2289.9	1.23	85.93
66.0-67.0	312.6	31.4	2321.3	1.18	87.11
67.0-68.0	297.9	30.2	2351.5	1.13	88.24
68.0-69.0	283.2	28.9	2380.4	1.08	89.33
69.0-70.0	268.4	27.6	2408.0	1.03	90.36
70.0-71.0	254.0	26.3	2434.2	0.99	91.35
71.0-72.0	239.1	24.9	2459.1	0.93	92.28

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°): 1414.60 lm

%lum = 53.1%
%lamp = 53.1%

cone flux(120°): 2076.93 lm

%lum = 77.9%
%lamp = 77.9%



Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	924.7	923.3	924.7	923.3	924.7					
G1.0	924.9	924.5	924.2	923.7	924.9					
G2.0	923.4	923.4	923.5	923.5	923.4					
G3.0	923.5	922.8	923.2	924.2	923.5					
G4.0	921.3	920.7	921.5	922.0	921.3					
G5.0	922.3	919.2	919.0	921.3	922.3					
G6.0	920.2	918.3	918.9	919.8	920.2					
G7.0	917.1	914.8	916.8	917.7	917.1					
G8.0	916.8	912.7	913.3	916.2	916.8					
G9.0	913.4	910.3	912.4	913.9	913.4					
G10.0	910.4	906.4	908.9	911.9	910.4					
G11.0	908.2	902.4	905.0	908.5	908.2					
G12.0	904.1	898.8	902.2	904.8	904.1					
G13.0	900.9	894.4	899.0	901.7	900.9					
G14.0	897.8	890.0	895.3	897.7	897.8					
G15.0	891.9	883.2	890.3	893.1	891.9					
G16.0	889.3	879.0	884.5	888.7	889.3					
G17.0	883.9	872.2	878.5	883.2	883.9					
G18.0	879.1	867.0	873.6	877.2	879.1					
G19.0	871.7	861.8	867.6	871.3	871.7					
G20.0	866.0	855.2	860.7	865.5	866.0					
G21.0	860.3	846.2	854.9	858.5	860.3					
G22.0	853.3	839.7	848.6	852.8	853.3					
G23.0	847.3	832.4	840.3	842.8	847.3					
G24.0	839.2	823.3	833.4	835.9	839.2					
G25.0	831.7	814.1	825.9	829.3	831.7					
G26.0	824.8	806.9	818.4	821.3	824.8					
G27.0	815.0	797.8	809.1	812.3	815.0					
G28.0	808.0	788.5	800.2	802.9	808.0					
G29.0	799.5	779.5	791.2	794.2	799.5					
G30.0	790.6	767.9	783.3	784.7	790.6					
G31.0	781.7	758.3	774.9	776.3	781.7					
G32.0	771.0	746.8	764.2	764.5	771.0					
G33.0	761.7	735.3	755.6	756.0	761.7					
G34.0	752.2	725.7	745.8	745.7	752.2					
G35.0	741.3	713.0	734.2	733.5	741.3					
G36.0	732.9	701.5	723.4	722.2	732.9					

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	721.4	688.5	713.2	712.5	721.4					
G38.0	710.9	677.3	701.5	700.3	710.9					
G39.0	700.2	665.6	691.1	689.0	700.2					
G40.0	688.1	652.2	679.5	676.9	688.1					
G41.0	676.9	640.2	668.2	665.0	676.9					
G42.0	665.5	628.2	657.8	652.8	665.5					
G43.0	652.9	613.3	645.8	640.1	652.9					
G44.0	642.3	599.6	633.6	628.5	642.3					
G45.0	629.4	586.5	620.3	615.4	629.4					
G46.0	616.8	573.7	608.6	602.5	616.8					
G47.0	604.4	560.3	596.9	589.5	604.4					
G48.0	591.5	545.3	582.9	575.3	591.5					
G49.0	579.5	532.0	570.8	562.8	579.5					
G50.0	566.3	517.7	557.3	550.3	566.3					
G51.0	552.0	503.5	543.8	535.4	552.0					
G52.0	538.7	488.4	531.3	521.7	538.7					
G53.0	527.1	474.2	516.9	510.1	527.1					
G54.0	512.2	459.7	504.3	494.1	512.2					
G55.0	498.5	445.2	491.2	480.3	498.5					
G56.0	483.7	429.7	476.7	466.4	483.7					
G57.0	470.6	415.1	463.3	452.9	470.6					
G58.0	457.3	401.4	449.9	439.3	457.3					
G59.0	441.7	385.5	435.0	423.1	441.7					
G60.0	429.5	370.5	421.3	409.0	429.5					
G61.0	415.5	355.1	406.6	394.4	415.5					
G62.0	399.9	340.5	391.8	380.3	399.9					
G63.0	386.8	326.1	379.3	365.5	386.8					
G64.0	371.8	310.0	364.0	350.2	371.8					
G65.0	357.2	295.1	349.3	335.8	357.2					
G66.0	343.4	280.7	334.6	321.8	343.4					
G67.0	328.2	264.7	320.0	306.9	328.2					
G68.0	314.3	250.0	306.2	292.4	314.3					
G69.0	299.8	234.5	291.5	277.0	299.8					
G70.0	284.7	220.3	276.9	262.8	284.7					
G71.0	270.3	206.2	262.7	248.3	270.3					
G72.0	255.6	190.0	247.1	232.6	255.6					
G73.0	240.6	175.2	233.0	218.7	240.6					

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

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: