GENLED Brands
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Report No.: **Test Time: 2023/2/21 11:37**

Luminaire Property

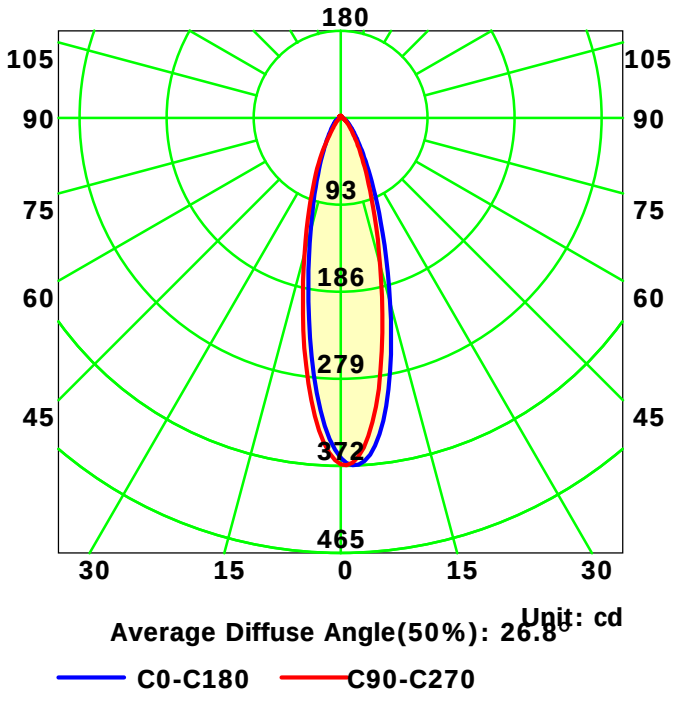
Luminaire Manufacturer:
Luminaire Category: 大炮 **Luminaire Description :**25
Lamp Catalog: B **Luminous Length (mm): 270**
Luminous Width (mm): 70 **Luminous Height (mm): 20**
Voltage: 219.3 V **Current: 0.107 A**
Power: 9.62 W **Power Factor: 0.410**

Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 157.1 lm**
Measurement Flux: 157.1 lm **Efficiency: 100%**
Downward Ratio: 93% **Upward Ratio: 7%**
Horizontal Diffuse Angle(10%,50%): H63.4,H27.2
Vertical Diffuse Angle(10%,50%): V60.6,V26.3
Luminaire Efficacy Rating (LER): 16 **Central Intensity: 363.45 cd**
Max. Intensity: 372.34 cd **Pos of Max. Intensity: H150 V0**

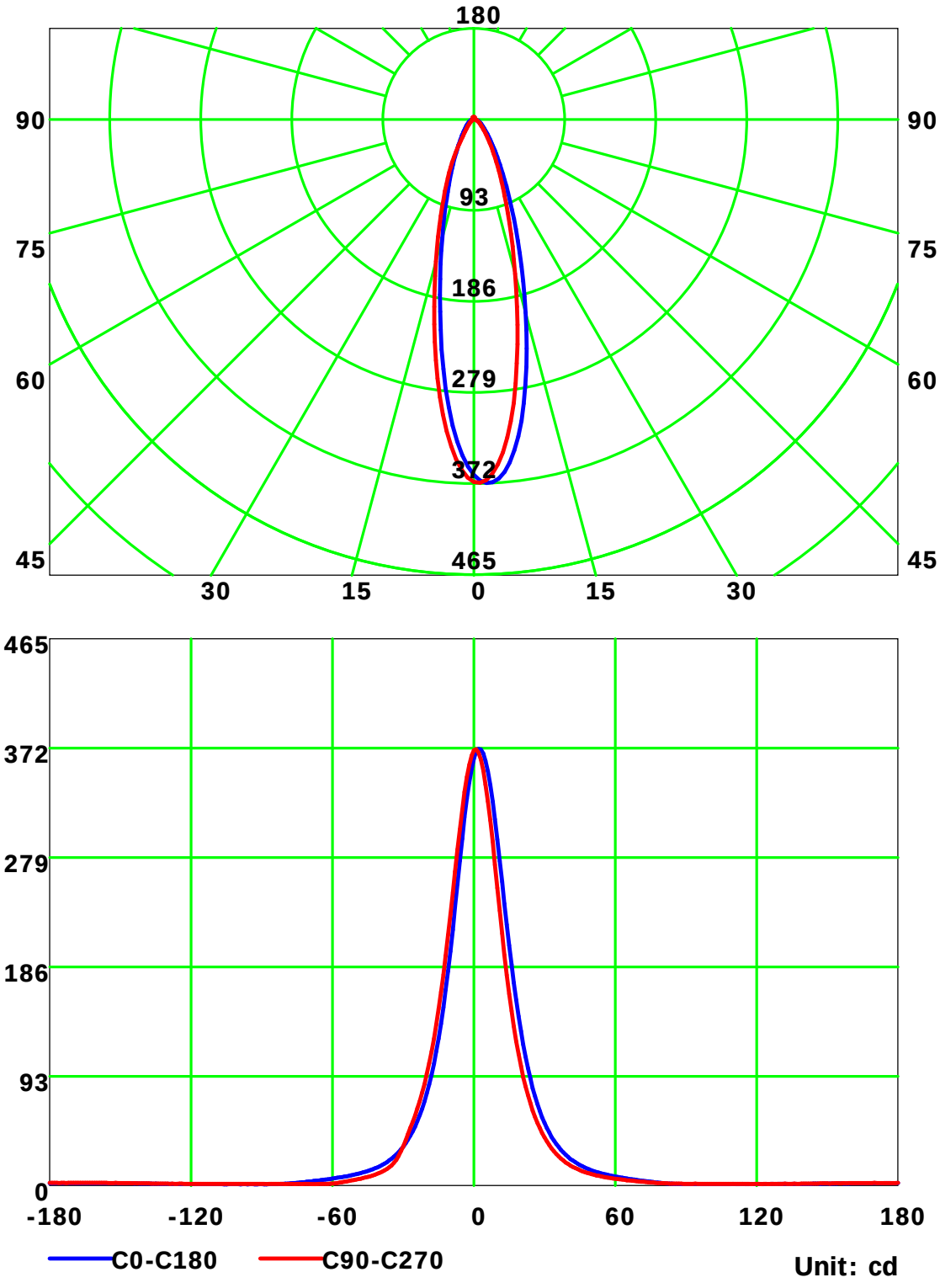
Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0 **Gamma Plane (°):0.0-180.0:1.0**
Test Lab: **Test Device: GPM-1800B**
Test Type: TYPE C **Distance: 9.028 m**
Temperature: 25 **Humidity: 60%**
Operator: Jacky **Inspector:**

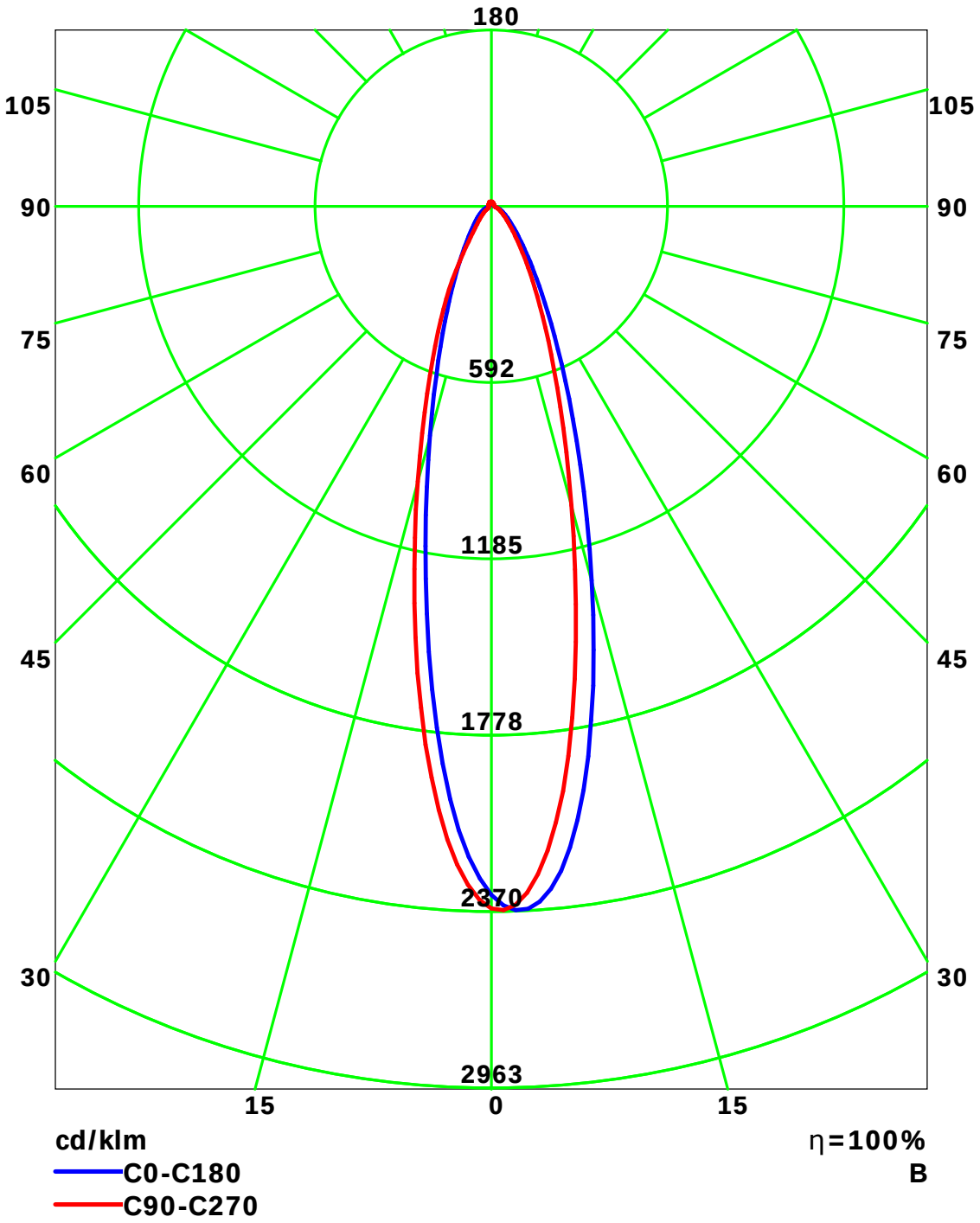
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

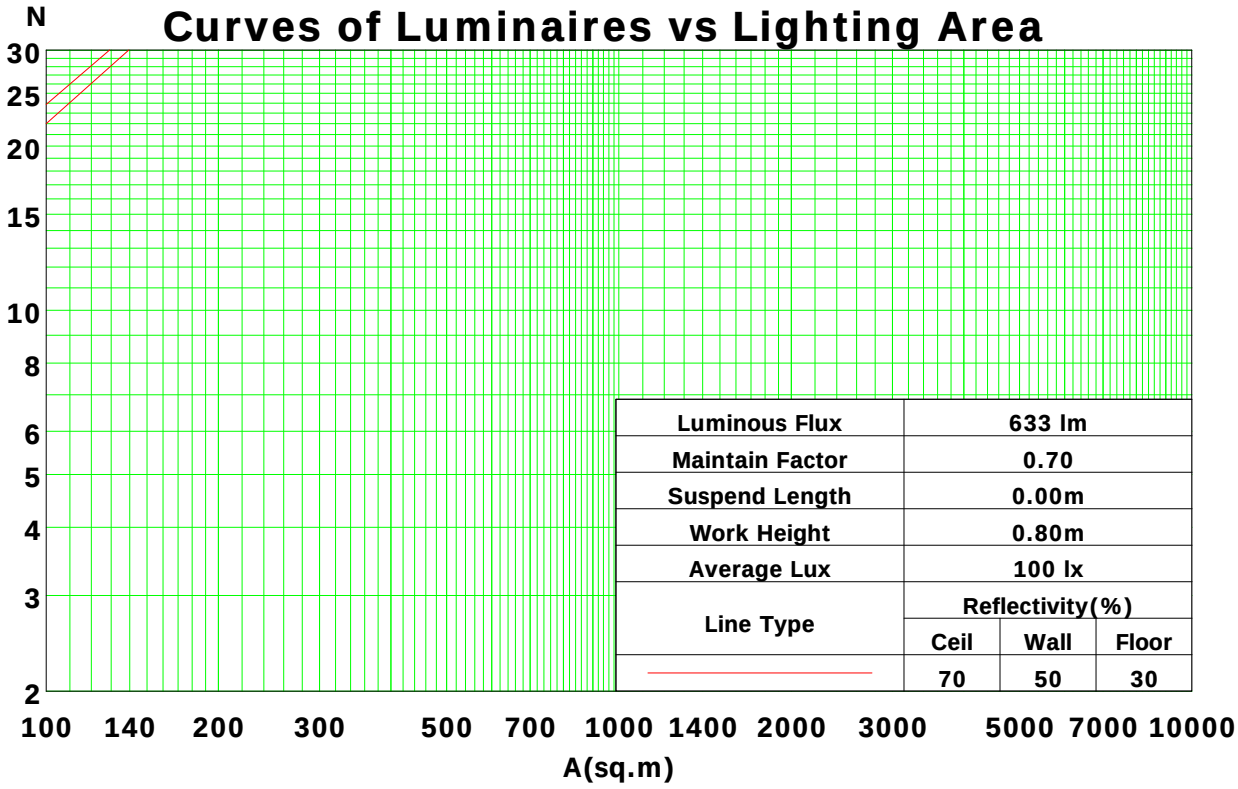
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	111	108	105	102	108	105	102	100	99	97	95	94	93	91	90	89	87	85
2	105	99	95	91	102	97	93	90	93	89	86	88	86	84	85	83	81	79
3	99	92	87	83	97	90	85	82	87	83	79	83	80	77	80	77	75	73
4	94	86	80	76	92	85	79	75	81	77	73	79	75	72	76	73	70	68
5	90	81	75	71	87	80	74	70	77	72	69	75	70	67	72	69	66	64
6	85	76	70	66	83	75	70	65	73	68	64	71	67	63	69	65	62	61
7	82	72	66	62	80	71	66	62	69	64	61	67	63	60	66	62	59	58
8	78	69	63	59	76	68	62	58	66	61	58	64	60	57	63	59	56	55
9	75	65	60	56	73	65	59	55	63	58	55	62	57	54	60	57	54	52
10	72	62	57	53	70	62	56	53	60	56	52	59	55	52	58	54	51	50

Spacing Criteria (0-180): 0.46
Spacing Criteria (90-270): 0.44
Spacing Criteria (Diagonal): 0.49

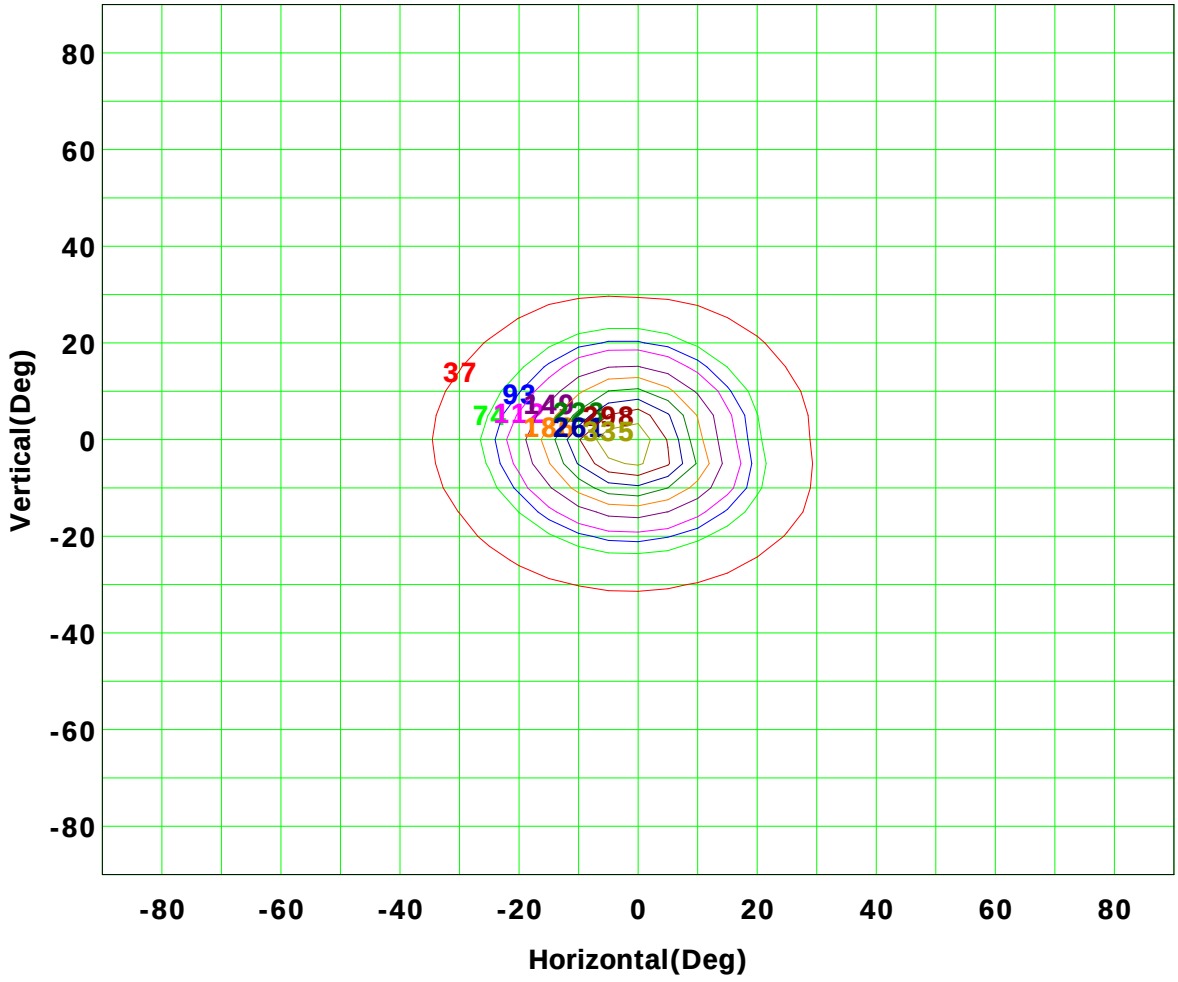
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Isocandela (rectangle)



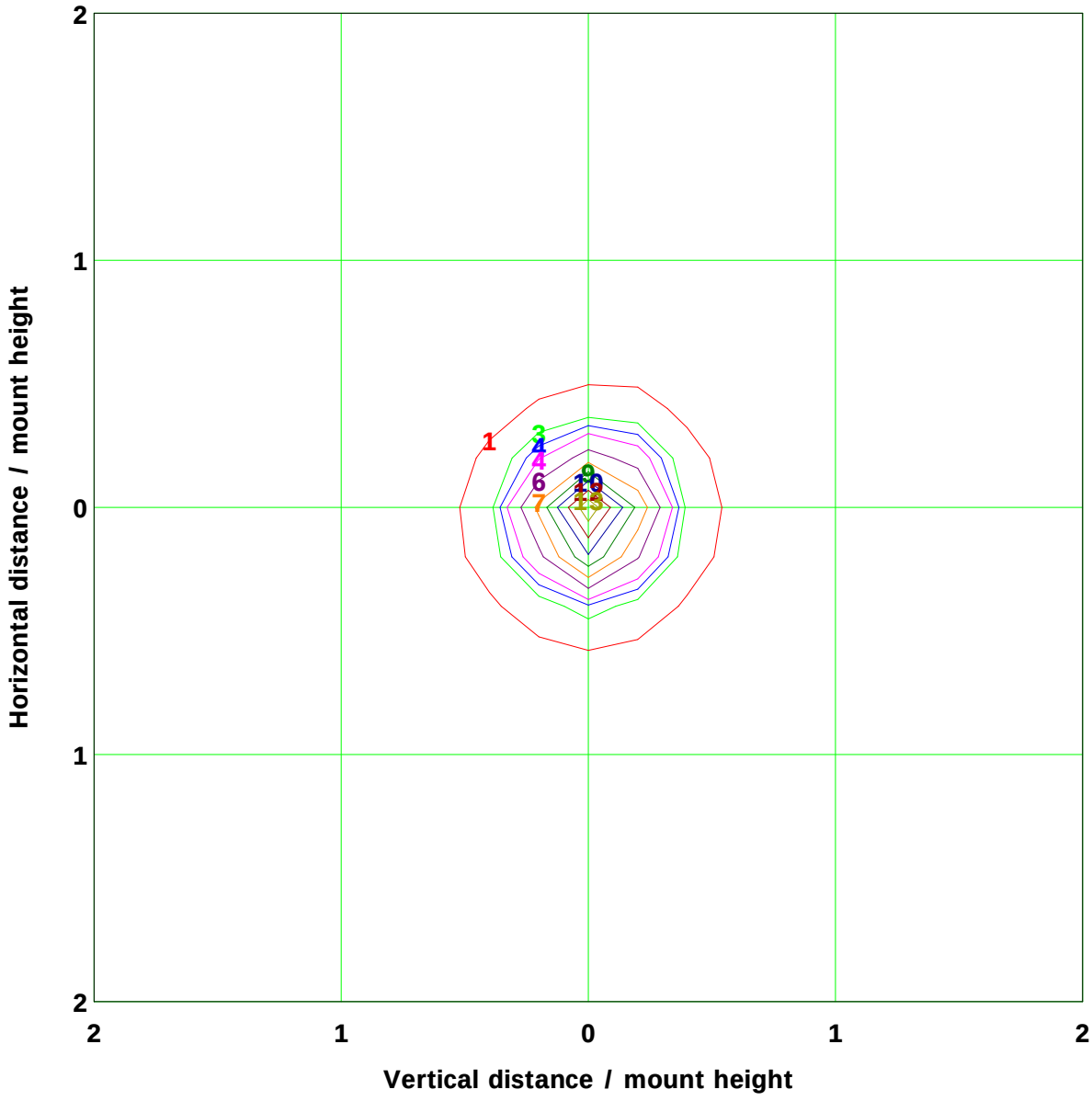
Imax (100%): 372 cd

(10%):	37 cd	(20%):	74 cd
(25%):	93 cd	(30%):	112 cd
(40%):	149 cd	(50%):	186 cd
(60%):	223 cd	(70%):	261 cd
(80%):	298 cd	(90%):	335 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 14.9 lx

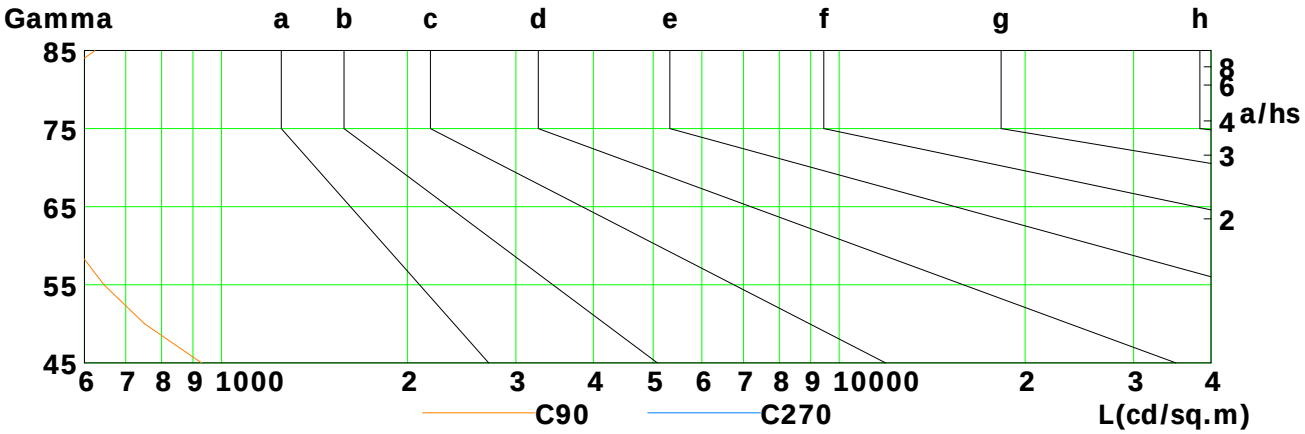
(10%): 1.5 lx	(20%): 3.0 lx
(25%): 3.7 lx	(30%): 4.5 lx
(40%): 6.0 lx	(50%): 7.4 lx
(60%): 8.9 lx	(70%): 10.4 lx
(80%): 11.9 lx	(90%): 13.4 lx

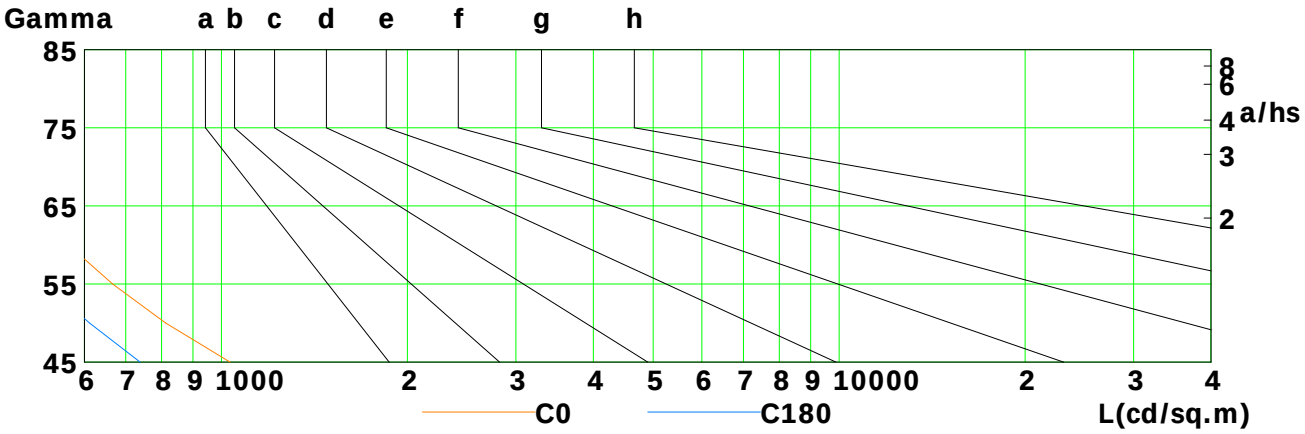
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
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



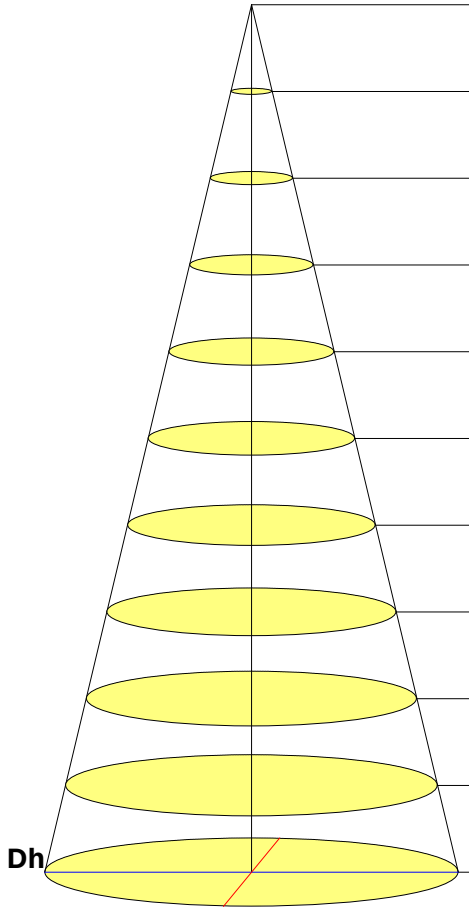


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1034	813	667	566	486	412	351	279	246
C90	929	751	646	578	515	491	464	509	625
C180	739	612	520	446	383	322	259	223	211
C270	540	415	296	184	175	212	267	339	542

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance



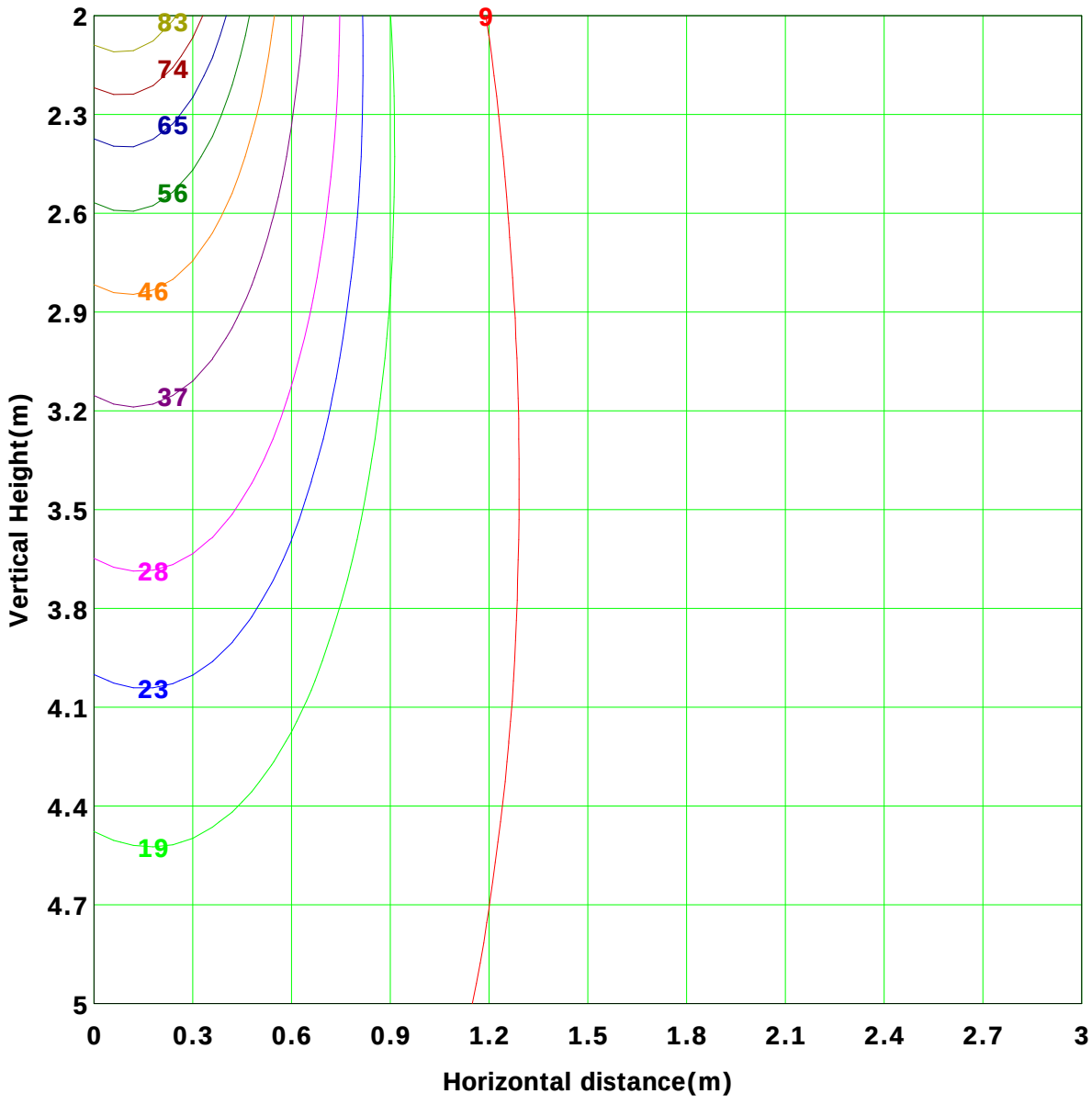
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	363.45	0.48/0.47	0.2	220.03
2.0	90.86	0.97/0.93	0.7	55.01
3.0	40.38	1.45/1.40	1.6	24.45
4.0	22.72	1.94/1.87	2.9	13.75
5.0	14.54	2.42/2.33	4.5	8.80
6.0	10.10	2.91/2.80	6.4	6.11
7.0	7.42	3.39/3.27	8.8	4.49
8.0	5.68	3.87/3.74	11.5	3.44
9.0	4.49	4.36/4.20	14.5	2.72
10.0	3.63	4.84/4.67	17.9	2.20

Beam Angle(B): H27.2 V26.3 Field Angle(F): H63.4 V60.6

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 92.7 lx

(10%): 9.3 lx
(20%): 18.5 lx
(25%): 23.2 lx
(30%): 27.8 lx
(40%): 37.1 lx
(50%): 46.3 lx
(60%): 55.6 lx
(70%): 64.9 lx
(80%): 74.1 lx
(90%): 83.4 lx

C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 9.028 m
Temperature: 25
Humidity: 60%
Operator: Jacky
Inspector:

Area Flux Table

Unit: lm

Vertical plane	Flux(E)	Flux(T)
-90	0.0	0.0
-80	0.0	0.0
-70	0.0	0.0
-60	0.0	0.0
-50	0.0	0.0
-40	0.0	0.0
-30	0.0	0.0
-20	0.0	0.0
-10	0.0	0.0
0	0.0	0.0
10	0.0	0.0
20	0.0	0.0
30	0.0	0.0
40	0.0	0.0
50	0.0	0.0
60	0.0	0.0
70	0.0	0.0
80	0.0	0.0
90	0.0	0.1
-90	0.0	0.3
-80	0.0	0.7
-70	0.0	1.4
-60	0.0	2.6
-50	0.0	4.5
-40	4.3	8.5
-30	14.2	17.4
-20	28.4	31.3
-10	31.4	34.2
0	19.0	21.9
10	7.5	11.0
20	0.9	5.6
30	0.0	3.0
40	0.0	1.7
50	0.0	0.9
60	0.0	0.4
70	0.0	0.1
80		146
90	106	

Horizontal plane

Flux(E) Flux(T)

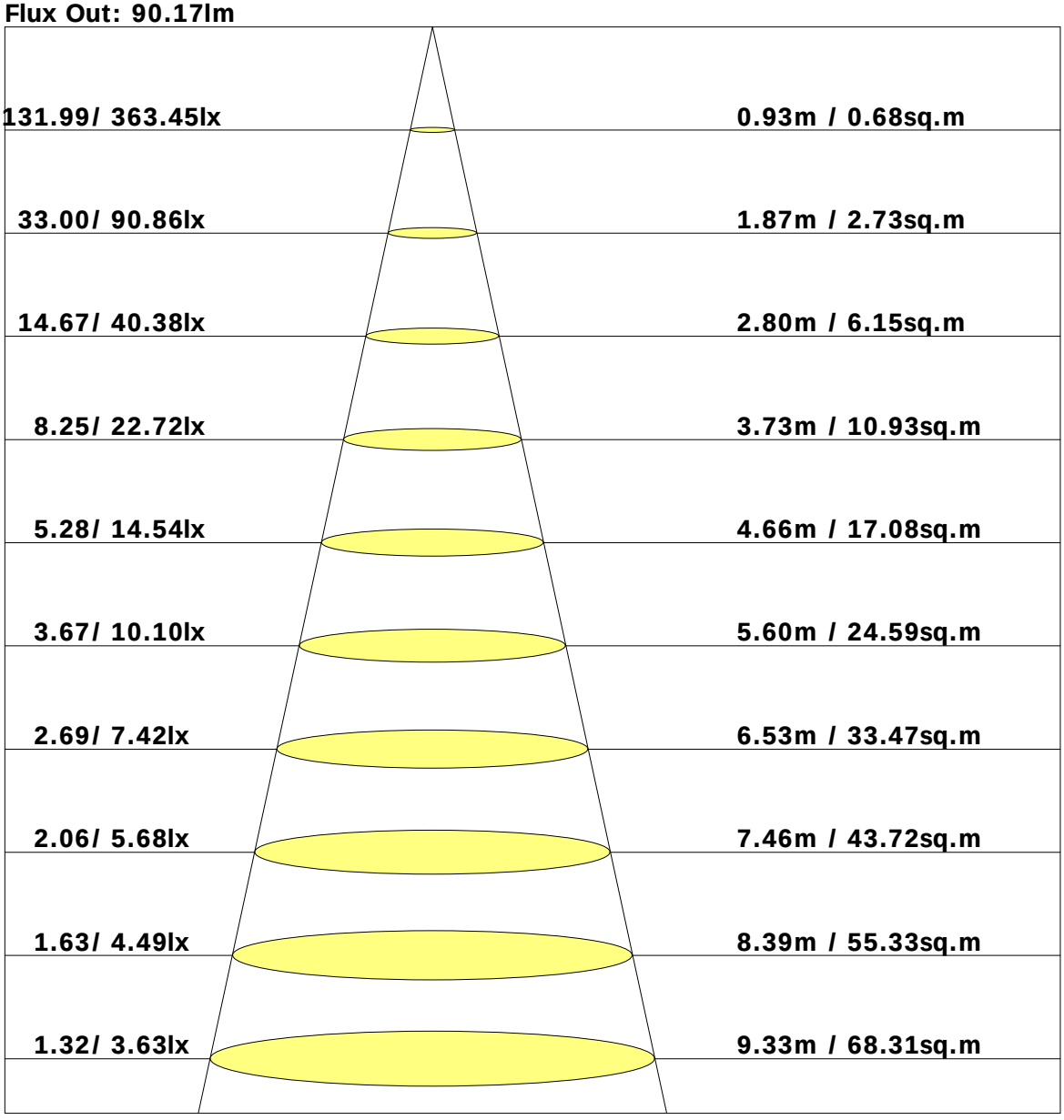
Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60	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	0.0	0.0	0.0	0.0
-50	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	0.0	0.0	0.0	0.0
-40	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	0.0	0.0	0.0	0.0
-30	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	0.0	0.0	0.0	0.0
-20	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	0.0	0.0	0.0	0.0
-10	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	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	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	0.0	0.0	0.0	0.0
20	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	0.0	0.0	0.0	0.0
30	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	0.0	0.0	0.0	0.0
40	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	0.0	0.0	0.0	0.0
50	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	0.0	0.0	0.0	0.0
60	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	0.0	0.0	0.0	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	0.0	0.0	0.0	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	0.0	0.0	0.0	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	0.0	0.0	0.1	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	0.0	0.0	0.3	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	0.0	0.0	0.7	0.0
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.1
-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.1
-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	0.1
-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	0.1
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	0.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.1
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.0	0.0	0.0	0.0
90	0.6	0.6	1.1	2.0	3.9	9.1	18.3	31.2	33.7	20.3	10.2	5.5	3.2	2.1	0.9	1.4	0.7	0.0		146	
-90	0.0	0.0	0.0	0.0	0.0	5.4	15.6	28.8	31.3	17.7	6.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		106

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure

Flux Out: 90.17lm



Height	Avg./Nadir. E	Beam Angle:50.0°	Diameter / Area
1.0m	131.99/ 363.45lx		0.93m / 0.68sq.m
2.0m	33.00/ 90.86lx		1.87m / 2.73sq.m
3.0m	14.67/ 40.38lx		2.80m / 6.15sq.m
4.0m	8.25/ 22.72lx		3.73m / 10.93sq.m
5.0m	5.28/ 14.54lx		4.66m / 17.08sq.m
6.0m	3.67/ 10.10lx		5.60m / 24.59sq.m
7.0m	2.69/ 7.42lx		6.53m / 33.47sq.m
8.0m	2.06/ 5.68lx		7.46m / 43.72sq.m
9.0m	1.63/ 4.49lx		8.39m / 55.33sq.m
10.0m	1.32/ 3.63lx		9.33m / 68.31sq.m

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
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	13.0	14.1	13.5	14.5	15.0	11.8	12.8	12.3	13.3	13.8
3H	14.6	15.5	15.1	16.0	16.6	13.1	14.0	13.6	14.5	15.1
4H	15.3	16.1	15.8	16.6	17.2	13.7	14.5	14.2	15.0	15.6
6H	15.8	16.6	16.4	17.1	17.7	14.1	14.9	14.7	15.4	16.0
8H	16.0	16.8	16.6	17.3	17.9	14.4	15.1	14.9	15.6	16.2
12H	16.3	17.0	16.8	17.5	18.1	14.6	15.3	15.1	15.8	16.4
X=4H Y=2H	13.2	14.0	13.7	14.5	15.1	12.3	13.2	12.9	13.7	14.2
3H	14.9	15.6	15.5	16.2	16.7	13.9	14.6	14.4	15.1	15.7
4H	15.7	16.3	16.2	16.9	17.5	14.5	15.2	15.1	15.7	16.3
6H	16.4	16.9	17.0	17.5	18.1	15.1	15.7	15.7	16.3	16.9
8H	16.7	17.2	17.3	17.8	18.4	15.4	15.9	16.0	16.5	17.1
12H	17.0	17.5	17.7	18.1	18.7	15.7	16.2	16.3	16.8	17.4
X=8H Y=4H	15.7	16.3	16.3	16.8	17.5	14.8	15.4	15.4	15.9	16.6
6H	16.6	17.0	17.2	17.6	18.3	15.6	16.0	16.2	16.6	17.3
8H	17.0	17.4	17.6	18.0	18.7	16.0	16.4	16.6	17.0	17.7
12H	17.5	17.8	18.1	18.4	19.2	16.4	16.7	17.1	17.4	18.1
X=12H Y=4H	15.7	16.2	16.3	16.8	17.4	14.9	15.3	15.5	15.9	16.6
6H	16.6	17.0	17.2	17.6	18.3	15.7	16.1	16.3	16.7	17.4
8H	17.1	17.4	17.7	18.0	18.7	16.2	16.5	16.8	17.1	17.8

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	0.80	0.86	0.91	0.94	0.98	1.01	1.03	1.06	1.08
	0.30		0.75	0.82	0.86	0.89	0.94	0.98	1.00	1.03	1.05
	0.20		0.72	0.78	0.82	0.86	0.91	0.95	0.97	1.01	1.03
0.50	0.50	0.20	0.78	0.84	0.88	0.90	0.94	0.97	0.98	1.01	1.02
	0.30		0.74	0.80	0.84	0.87	0.91	0.94	0.96	0.99	1.00
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.94	0.97	0.99
0.30	0.50	0.20	0.76	0.81	0.85	0.87	0.91	0.93	0.94	0.96	0.97
	0.30		0.73	0.78	0.82	0.84	0.88	0.90	0.92	0.94	0.96
	0.20		0.70	0.75	0.79	0.82	0.86	0.88	0.90	0.93	0.94
0.00	0.00	0.00	0.68	0.72	0.76	0.78	0.81	0.84	0.85	0.87	0.88

Rating:10W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	0.63	0.52	0.44	0.39	0.31	0.26	0.22	0.17	0.14
	0.30		0.52	0.44	0.39	0.34	0.28	0.24	0.20	0.16	0.14
	0.20		0.45	0.39	0.34	0.31	0.25	0.22	0.19	0.15	0.13
0.50	0.50	0.20	0.58	0.48	0.41	0.35	0.28	0.27	0.20	0.16	0.13
	0.30		0.49	0.42	0.36	0.32	0.26	0.22	0.19	0.15	0.12
	0.20		0.43	0.37	0.32	0.29	0.24	0.20	0.18	0.14	0.12
0.30	0.50	0.20	0.55	0.44	0.37	0.32	0.26	0.21	0.18	0.14	0.12
	0.30		0.47	0.39	0.33	0.29	0.24	0.20	0.17	0.13	0.11
	0.20		0.41	0.35	0.30	0.27	0.22	0.19	0.16	0.13	0.11
0.00	0.00	0.00	0.27	0.22	0.19	0.16	0.13	0.11	0.09	0.07	0.06

Rating:10W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.28
	0.30		0.16	0.18	0.19	0.21	0.22	0.24	0.24	0.26	0.27
	0.20		0.13	0.15	0.16	0.18	0.20	0.21	0.22	0.24	0.25
0.50	0.50	0.20	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.27
	0.30		0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26
	0.20		0.13	0.15	0.16	0.17	0.19	0.21	0.22	0.23	0.24
0.30	0.50	0.20	0.19	0.21	0.22	0.22	0.23	0.24	0.25	0.25	0.26
	0.30		0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25
	0.20		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.23	0.23
0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

Rating:10W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	367.7	0.4	0.4	0.22	0.22
1.0-2.0	364.5	1.0	1.4	0.67	0.89
2.0-3.0	358.2	1.7	3.1	1.09	1.98
3.0-4.0	349.0	2.3	5.4	1.49	3.47
4.0-5.0	337.4	2.9	8.4	1.85	5.32
5.0-6.0	323.4	3.4	11.8	2.16	7.48
6.0-7.0	307.6	3.8	15.6	2.43	9.91
7.0-8.0	290.5	4.2	19.7	2.65	12.56
8.0-9.0	272.6	4.4	24.1	2.81	15.37
9.0-10.0	254.2	4.6	28.7	2.93	18.30
10.0-11.0	235.8	4.7	33.5	3.00	21.30
11.0-12.0	217.5	4.8	38.2	3.03	24.33
12.0-13.0	200.0	4.7	43.0	3.02	27.35
13.0-14.0	183.6	4.7	47.7	2.99	30.35
14.0-15.0	168.0	4.6	52.3	2.94	33.28
15.0-16.0	153.3	4.5	56.8	2.86	36.14
16.0-17.0	140.0	4.4	61.1	2.78	38.92
17.0-18.0	127.7	4.2	65.3	2.68	41.60
18.0-19.0	116.4	4.0	69.4	2.58	44.18
19.0-20.0	106.1	3.9	73.3	2.47	46.65
20.0-21.0	96.7	3.7	77.0	2.36	49.02
21.0-22.0	88.1	3.5	80.5	2.26	51.27
22.0-23.0	80.5	3.4	83.9	2.15	53.42
23.0-24.0	73.5	3.2	87.1	2.04	55.47
24.0-25.0	67.0	3.0	90.2	1.94	57.41
25.0-26.0	61.3	2.9	93.1	1.84	59.25
26.0-27.0	56.1	2.7	95.8	1.75	61.00
27.0-28.0	51.2	2.6	98.4	1.65	62.65
28.0-29.0	46.9	2.5	100.8	1.56	64.21
29.0-30.0	42.9	2.3	103.2	1.47	65.69
30.0-31.0	39.2	2.2	105.3	1.39	67.08
31.0-32.0	35.8	2.1	107.4	1.31	68.38
32.0-33.0	32.8	1.9	109.3	1.23	69.61
33.0-34.0	30.0	1.8	111.2	1.16	70.77
34.0-35.0	27.5	1.7	112.9	1.09	71.86
35.0-36.0	25.3	1.6	114.5	1.03	72.89

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	23.3	1.5	116.0	0.97	73.85
37.0-38.0	21.5	1.4	117.4	0.91	74.77
38.0-39.0	19.9	1.4	118.8	0.87	75.63
39.0-40.0	18.5	1.3	120.1	0.82	76.46
40.0-41.0	17.2	1.2	121.3	0.78	77.24
41.0-42.0	16.1	1.2	122.5	0.75	77.98
42.0-43.0	15.1	1.1	123.6	0.71	78.70
43.0-44.0	14.1	1.1	124.7	0.68	79.38
44.0-45.0	13.3	1.0	125.7	0.65	80.02
45.0-46.0	12.5	1.0	126.7	0.62	80.65
46.0-47.0	11.7	0.9	127.6	0.59	81.24
47.0-48.0	11.0	0.9	128.5	0.57	81.81
48.0-49.0	10.4	0.9	129.3	0.55	82.35
49.0-50.0	9.8	0.8	130.2	0.52	82.88
50.0-51.0	9.3	0.8	130.9	0.50	83.37
51.0-52.0	8.7	0.8	131.7	0.48	83.85
52.0-53.0	8.3	0.7	132.4	0.46	84.31
53.0-54.0	7.8	0.7	133.1	0.44	84.75
54.0-55.0	7.4	0.7	133.8	0.42	85.17
55.0-56.0	7.0	0.6	134.4	0.40	85.57
56.0-57.0	6.6	0.6	135.0	0.38	85.96
57.0-58.0	6.2	0.6	135.6	0.37	86.32
58.0-59.0	5.9	0.6	136.1	0.35	86.67
59.0-60.0	5.6	0.5	136.7	0.34	87.01
60.0-61.0	5.3	0.5	137.2	0.32	87.33
61.0-62.0	5.0	0.5	137.7	0.31	87.64
62.0-63.0	4.8	0.5	138.1	0.30	87.94
63.0-64.0	4.5	0.4	138.6	0.28	88.22
64.0-65.0	4.3	0.4	139.0	0.27	88.49
65.0-66.0	4.1	0.4	139.4	0.26	88.75
66.0-67.0	3.9	0.4	139.8	0.25	89.00
67.0-68.0	3.7	0.4	140.2	0.24	89.25
68.0-69.0	3.6	0.4	140.5	0.23	89.48
69.0-70.0	3.4	0.3	140.9	0.22	89.70
70.0-71.0	3.2	0.3	141.2	0.21	89.91
71.0-72.0	3.1	0.3	141.5	0.20	90.11

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	2.9	0.3	141.8	0.19	90.31
73.0-74.0	2.8	0.3	142.1	0.18	90.49
74.0-75.0	2.6	0.3	142.4	0.18	90.67
75.0-76.0	2.5	0.3	142.7	0.17	90.84
76.0-77.0	2.4	0.3	142.9	0.16	91.00
77.0-78.0	2.3	0.2	143.2	0.16	91.16
78.0-79.0	2.2	0.2	143.4	0.15	91.30
79.0-80.0	2.1	0.2	143.6	0.14	91.45
80.0-81.0	2.0	0.2	143.8	0.14	91.59
81.0-82.0	1.9	0.2	144.1	0.13	91.72
82.0-83.0	1.9	0.2	144.3	0.13	91.85
83.0-84.0	1.8	0.2	144.5	0.12	91.97
84.0-85.0	1.8	0.2	144.6	0.12	92.10
85.0-86.0	1.7	0.2	144.8	0.12	92.22
86.0-87.0	1.7	0.2	145.0	0.12	92.33
87.0-88.0	1.7	0.2	145.2	0.12	92.45
88.0-89.0	1.7	0.2	145.4	0.12	92.57
89.0-90.0	1.7	0.2	145.6	0.12	92.69
90.0-91.0	1.7	0.2	145.8	0.12	92.80
91.0-92.0	1.7	0.2	145.9	0.12	92.92
92.0-93.0	1.7	0.2	146.1	0.12	93.04
93.0-94.0	1.7	0.2	146.3	0.12	93.15
94.0-95.0	1.7	0.2	146.5	0.12	93.27
95.0-96.0	1.7	0.2	146.7	0.11	93.38
96.0-97.0	1.7	0.2	146.8	0.11	93.50
97.0-98.0	1.7	0.2	147.0	0.11	93.61
98.0-99.0	1.6	0.2	147.2	0.11	93.73
99.0-100.0	1.6	0.2	147.4	0.11	93.84
100.0-101.0	1.6	0.2	147.6	0.11	93.95
101.0-102.0	1.6	0.2	147.7	0.11	94.06
102.0-103.0	1.6	0.2	147.9	0.11	94.18
103.0-104.0	1.6	0.2	148.1	0.11	94.29
104.0-105.0	1.6	0.2	148.3	0.11	94.40
105.0-106.0	1.6	0.2	148.4	0.11	94.51
106.0-107.0	1.6	0.2	148.6	0.11	94.61
107.0-108.0	1.6	0.2	148.8	0.11	94.72

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.6	0.2	148.9	0.11	94.83
109.0-110.0	1.6	0.2	149.1	0.11	94.94
110.0-111.0	1.6	0.2	149.3	0.11	95.05
111.0-112.0	1.7	0.2	149.4	0.11	95.15
112.0-113.0	1.7	0.2	149.6	0.11	95.26
113.0-114.0	1.7	0.2	149.8	0.11	95.37
114.0-115.0	1.7	0.2	149.9	0.11	95.47
115.0-116.0	1.6	0.2	150.1	0.10	95.58
116.0-117.0	1.7	0.2	150.3	0.10	95.68
117.0-118.0	1.7	0.2	150.4	0.10	95.78
118.0-119.0	1.7	0.2	150.6	0.10	95.88
119.0-120.0	1.7	0.2	150.8	0.10	95.99
120.0-121.0	1.7	0.2	150.9	0.10	96.09
121.0-122.0	1.7	0.2	151.1	0.10	96.19
122.0-123.0	1.7	0.2	151.2	0.10	96.29
123.0-124.0	1.7	0.2	151.4	0.10	96.39
124.0-125.0	1.7	0.2	151.5	0.10	96.49
125.0-126.0	1.7	0.2	151.7	0.10	96.58
126.0-127.0	1.7	0.2	151.8	0.10	96.68
127.0-128.0	1.8	0.2	152.0	0.10	96.78
128.0-129.0	1.8	0.2	152.2	0.10	96.88
129.0-130.0	1.8	0.2	152.3	0.10	96.97
130.0-131.0	1.8	0.1	152.5	0.09	97.07
131.0-132.0	1.8	0.1	152.6	0.09	97.16
132.0-133.0	1.8	0.1	152.8	0.09	97.26
133.0-134.0	1.8	0.1	152.9	0.09	97.35
134.0-135.0	1.9	0.1	153.0	0.09	97.44
135.0-136.0	1.9	0.1	153.2	0.09	97.53
136.0-137.0	1.9	0.1	153.3	0.09	97.63
137.0-138.0	1.9	0.1	153.5	0.09	97.72
138.0-139.0	1.9	0.1	153.6	0.09	97.81
139.0-140.0	2.0	0.1	153.8	0.09	97.90
140.0-141.0	2.0	0.1	153.9	0.09	97.98
141.0-142.0	2.0	0.1	154.0	0.09	98.07
142.0-143.0	2.0	0.1	154.2	0.09	98.16
143.0-144.0	2.1	0.1	154.3	0.09	98.24

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.1	0.1	154.4	0.08	98.33
145.0-146.0	2.1	0.1	154.6	0.08	98.41
146.0-147.0	2.1	0.1	154.7	0.08	98.49
147.0-148.0	2.2	0.1	154.8	0.08	98.57
148.0-149.0	2.2	0.1	154.9	0.08	98.65
149.0-150.0	2.2	0.1	155.1	0.08	98.73
150.0-151.0	2.2	0.1	155.2	0.08	98.81
151.0-152.0	2.2	0.1	155.3	0.07	98.88
152.0-153.0	2.3	0.1	155.4	0.07	98.96
153.0-154.0	2.3	0.1	155.5	0.07	99.03
154.0-155.0	2.3	0.1	155.6	0.07	99.10
155.0-156.0	2.3	0.1	155.7	0.07	99.16
156.0-157.0	2.3	0.1	155.8	0.07	99.23
157.0-158.0	2.4	0.1	155.9	0.06	99.29
158.0-159.0	2.4	0.1	156.0	0.06	99.35
159.0-160.0	2.4	0.1	156.1	0.06	99.41
160.0-161.0	2.4	0.1	156.2	0.06	99.47
161.0-162.0	2.4	0.1	156.3	0.05	99.52
162.0-163.0	2.4	0.1	156.4	0.05	99.57
163.0-164.0	2.4	0.1	156.5	0.05	99.62
164.0-165.0	2.4	0.1	156.5	0.05	99.67
165.0-166.0	2.4	0.1	156.6	0.04	99.71
166.0-167.0	2.5	0.1	156.7	0.04	99.75
167.0-168.0	2.4	0.1	156.7	0.04	99.79
168.0-169.0	2.4	0.1	156.8	0.03	99.82
169.0-170.0	2.5	0.0	156.8	0.03	99.85
170.0-171.0	2.5	0.0	156.9	0.03	99.88
171.0-172.0	2.4	0.0	156.9	0.03	99.90
172.0-173.0	2.4	0.0	156.9	0.02	99.93
173.0-174.0	2.5	0.0	157.0	0.02	99.95
174.0-175.0	2.5	0.0	157.0	0.02	99.96
175.0-176.0	2.5	0.0	157.0	0.01	99.98
176.0-177.0	2.5	0.0	157.0	0.01	99.99
177.0-178.0	2.5	0.0	157.1	0.01	99.99
178.0-179.0	2.5	0.0	157.1	0.00	100.00
179.0-180.0	2.5	0.0	157.1	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector: