

Report No.: 大炮

Test Time: 2023/3/22 15:35

## Luminaire Property

Luminaire Manufacturer:  
Luminaire Category: LDK40°  
Luminous Length (mm): 270  
Luminous Height (mm): 20  
Current: 0.152 A  
Power Factor: 0.975

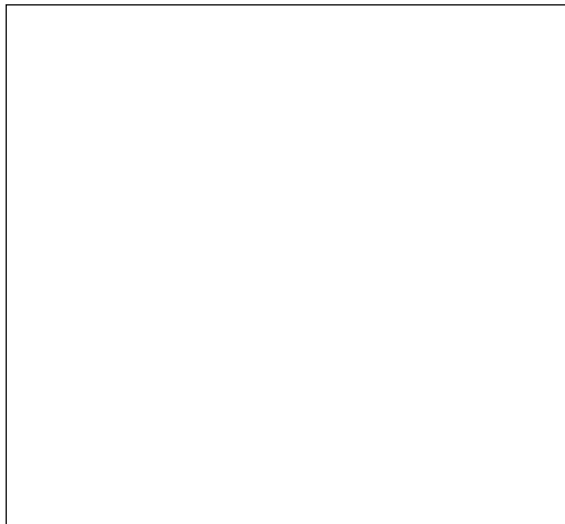
Lamp Description: 3000K  
Luminous Width (mm): 70  
Voltage: 219.1 V  
Power: 32.50 W

## Photometric Results

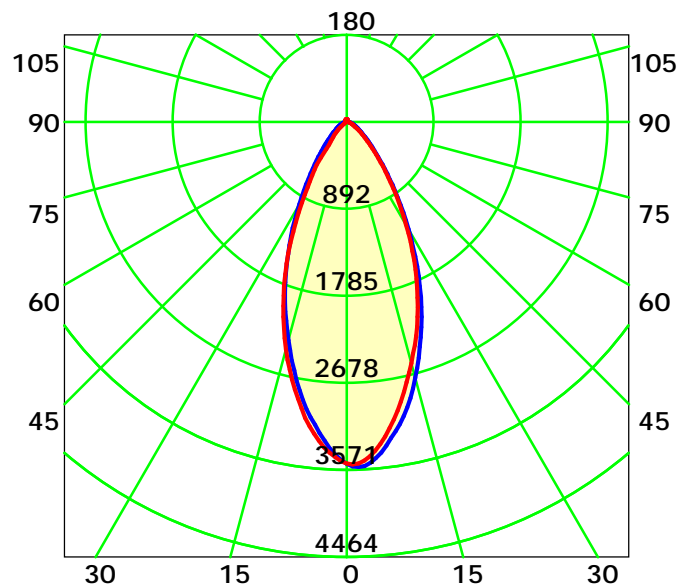
CIE Class: Direct  
Measurement Flux: 2731.6 lm  
Downward Ratio: 96%  
Horizontal Diffuse Angle(10%,50%): H88.5,H45.9  
Vertical Diffuse Angle(10%,50%): V81.9,V45.5  
Luminaire Efficacy Rating (LER): 84  
Max. Intensity: 3542.4 cd

Total Rated Lamp Lumens: 2731.6 lm  
Efficiency: 100%  
Upward Ratio: 4%  
Central Intensity: 3507.01 cd  
Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



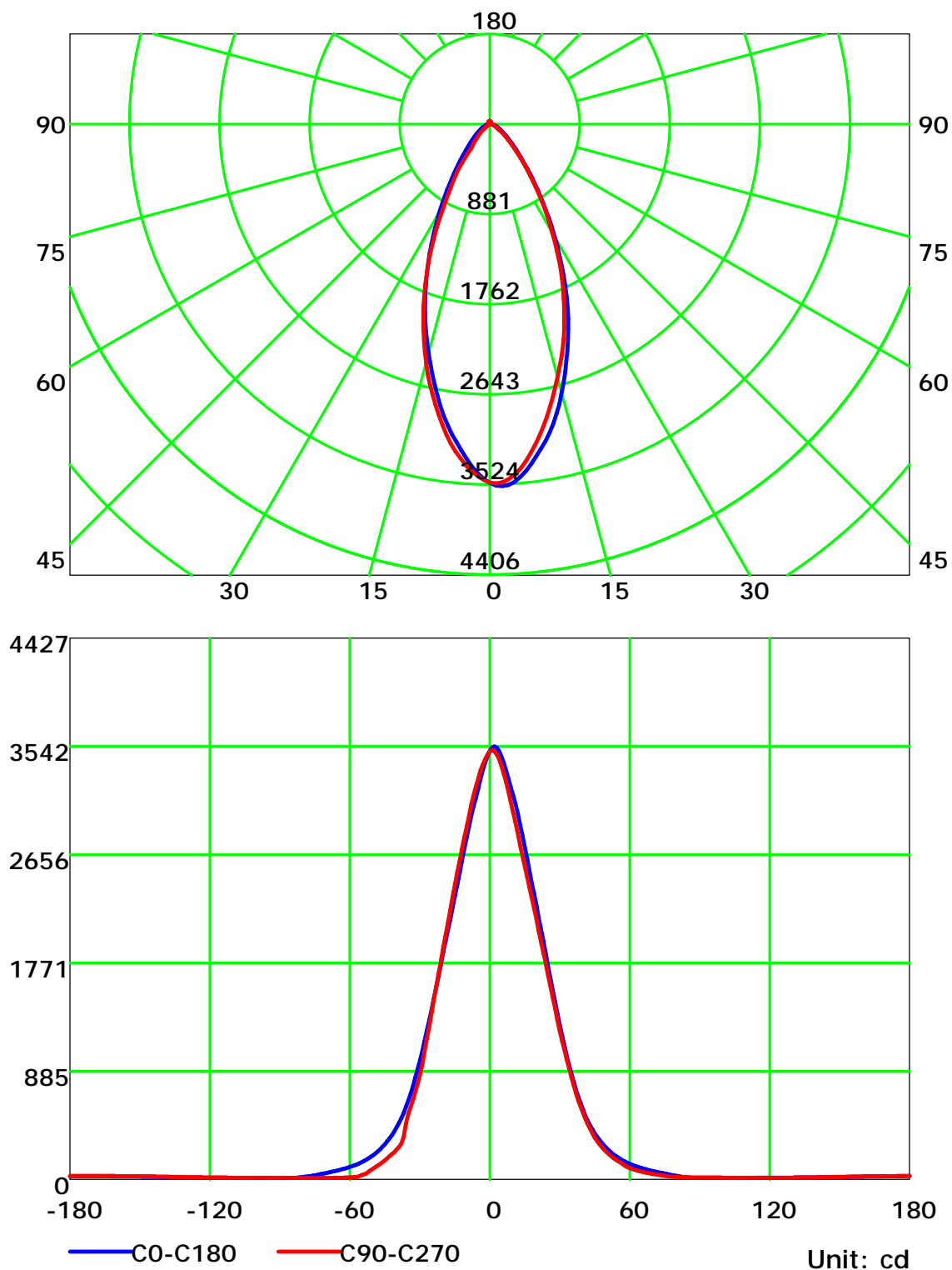
Average Diffuse Angle(50%): 45.7° Unit: cd

— C0-C180 — C90-C270

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

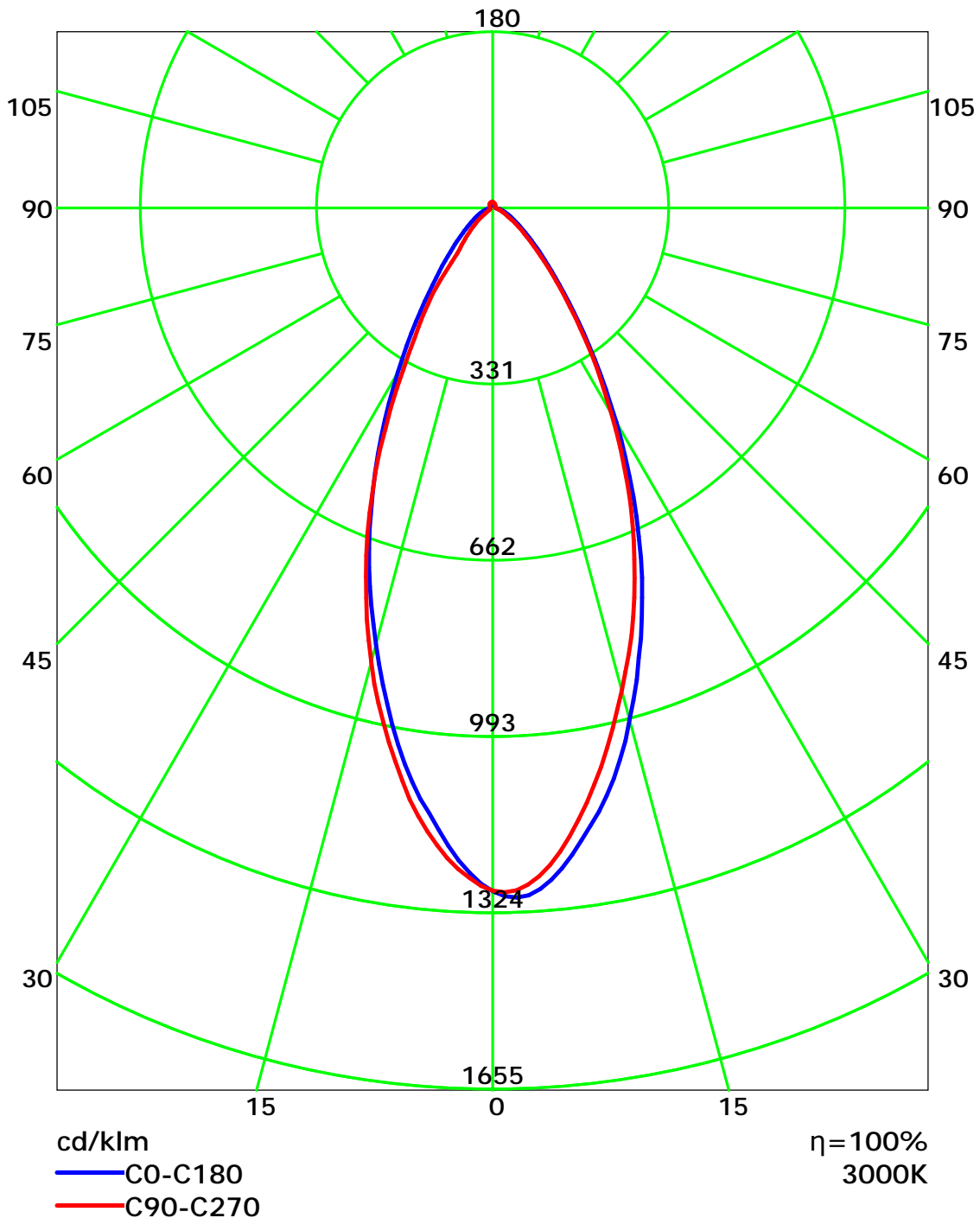


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

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:

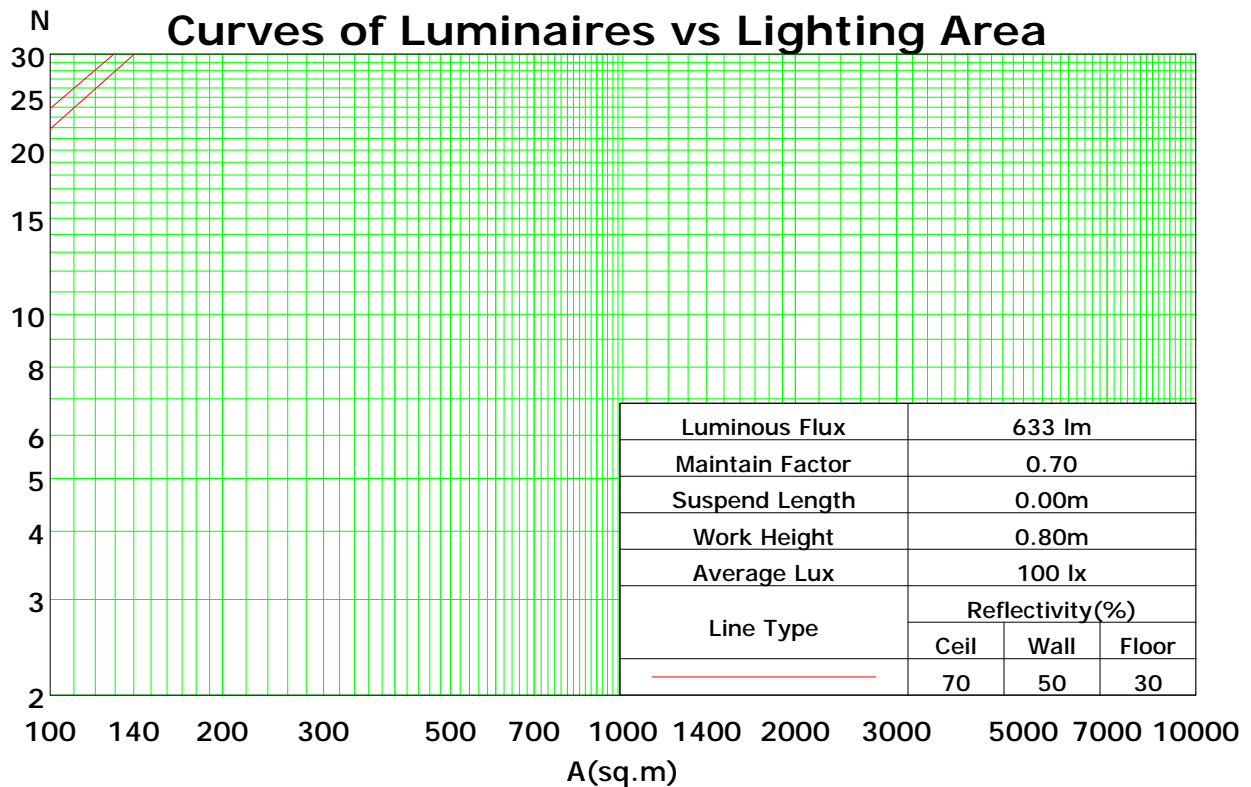
## Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	111	108	105	103	109	106	103	101	101	99	97	96	95	93	92	91	90	88
2	105	100	95	91	102	98	93	90	94	90	87	90	87	85	86	84	82	80
3	99	92	87	82	97	90	85	81	87	83	79	84	80	78	81	78	76	74
4	94	85	79	75	91	84	78	74	81	76	73	79	75	71	76	73	70	68
5	89	80	73	69	87	78	72	68	76	71	67	74	69	66	72	68	65	63
6	84	74	68	63	82	73	67	63	71	66	62	69	65	61	68	64	61	59
7	80	70	63	59	78	69	63	58	67	62	58	65	61	57	64	60	57	55
8	76	66	59	55	74	65	59	55	63	58	54	62	57	54	61	56	53	52
9	72	62	56	51	71	61	55	51	60	55	51	59	54	50	57	53	50	49
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	50	47	46

Spacing Criteria (0-180): 0.71

Spacing Criteria (90-270): 0.70

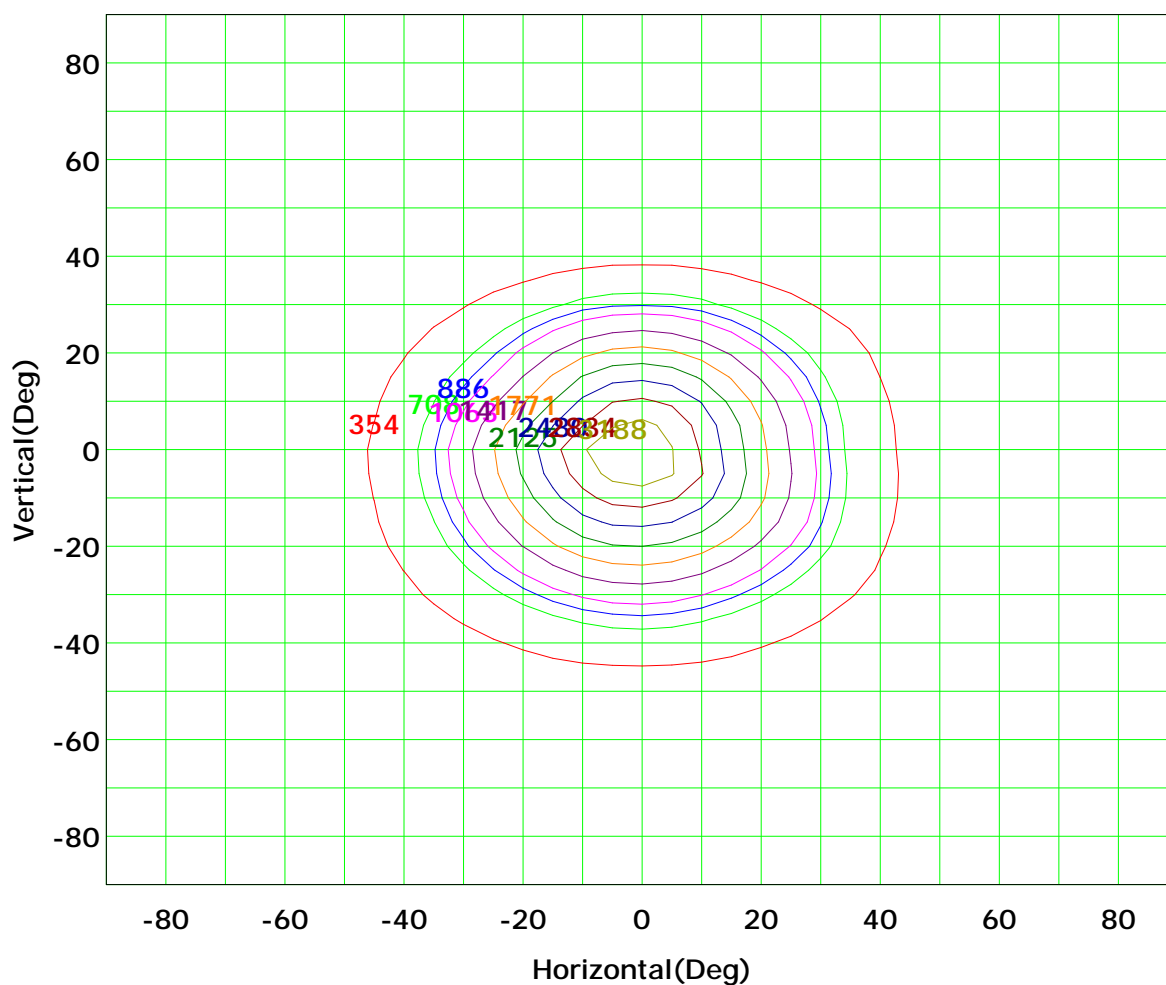
Spacing Criteria (Diagonal): 0.75



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%): 3542 cd

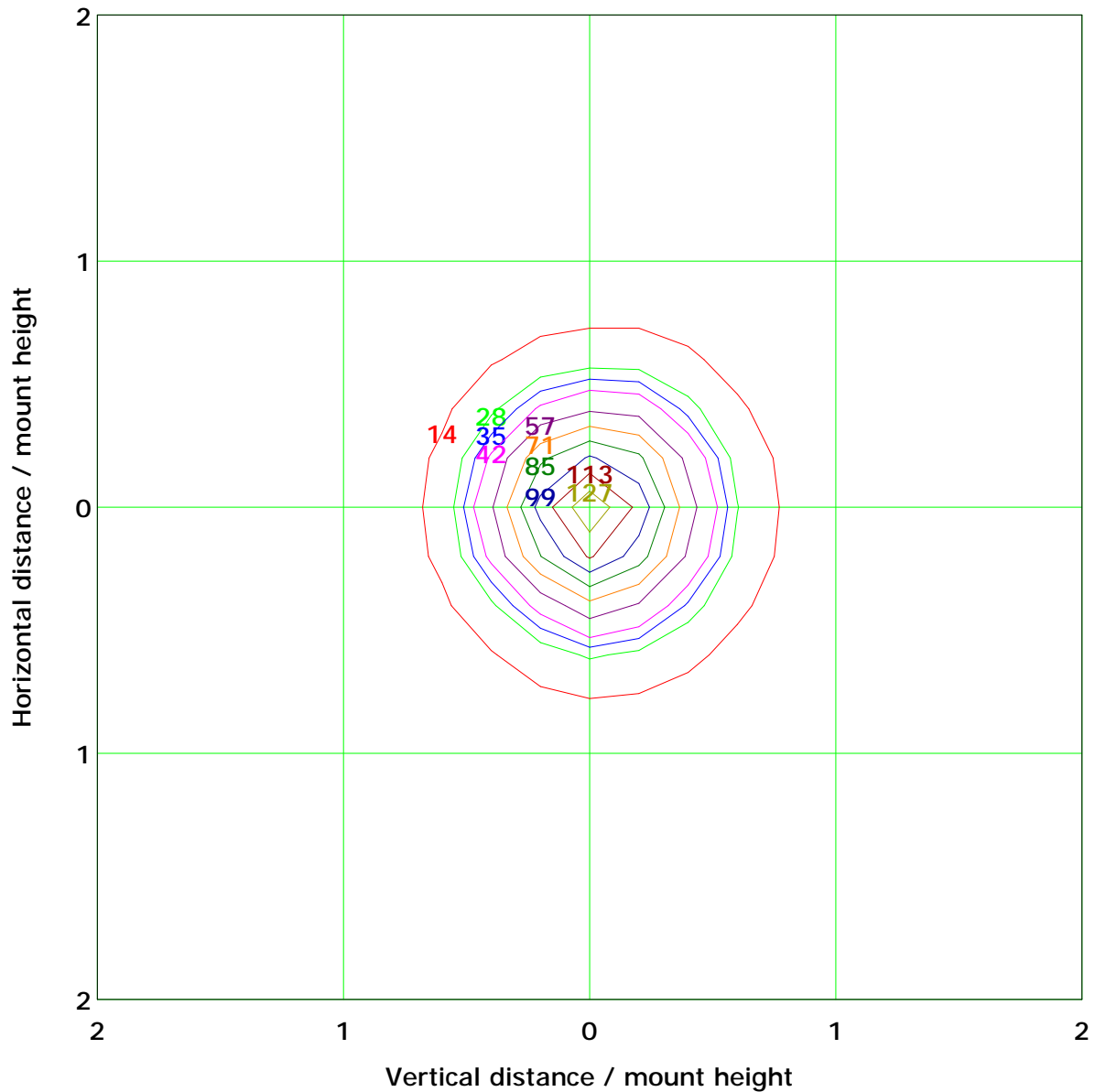
( 10%): 354 cd	( 20%): 708 cd
( 25%): 886 cd	( 30%): 1063 cd
( 40%): 1417 cd	( 50%): 1771 cd
( 60%): 2125 cd	( 70%): 2480 cd
( 80%): 2834 cd	( 90%): 3188 cd

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%): 141.4 lx
( 10%): 14.1 lx	( 20%): 28.3 lx	
( 25%): 35.4 lx	( 30%): 42.4 lx	
( 40%): 56.6 lx	( 50%): 70.7 lx	
( 60%): 84.9 lx	( 70%): 99.0 lx	
( 80%): 113.1 lx	( 90%): 127.3 lx	

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

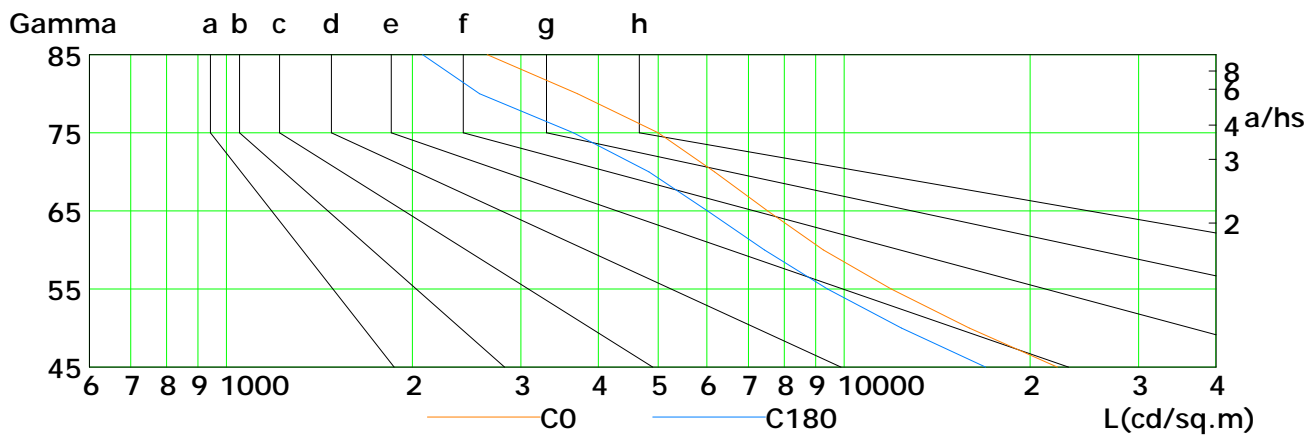
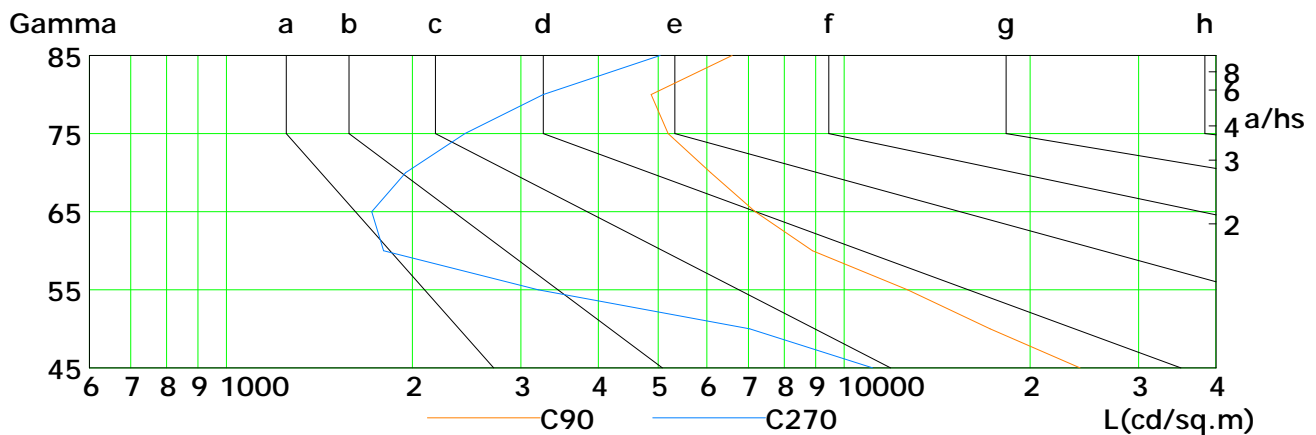
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## 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



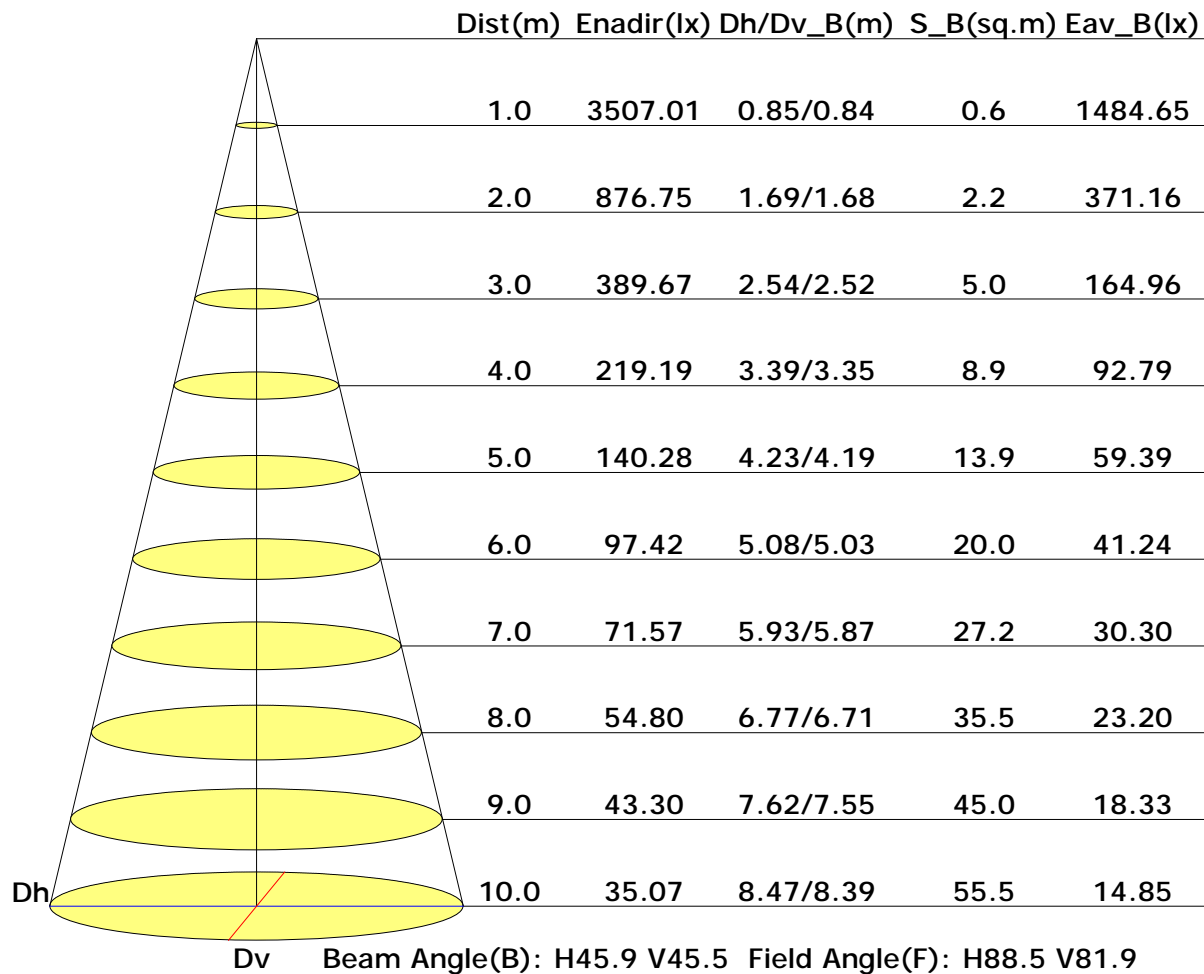
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	22154	15951	11919	9257	7519	6172	5003	3702	2644
C90	24115	17228	12667	8891	7183	6082	5194	4871	6591
C180	16946	12384	9407	7431	6009	4830	3647	2571	2078
C270	11123	7036	3198	1798	1720	1953	2433	3259	5040

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



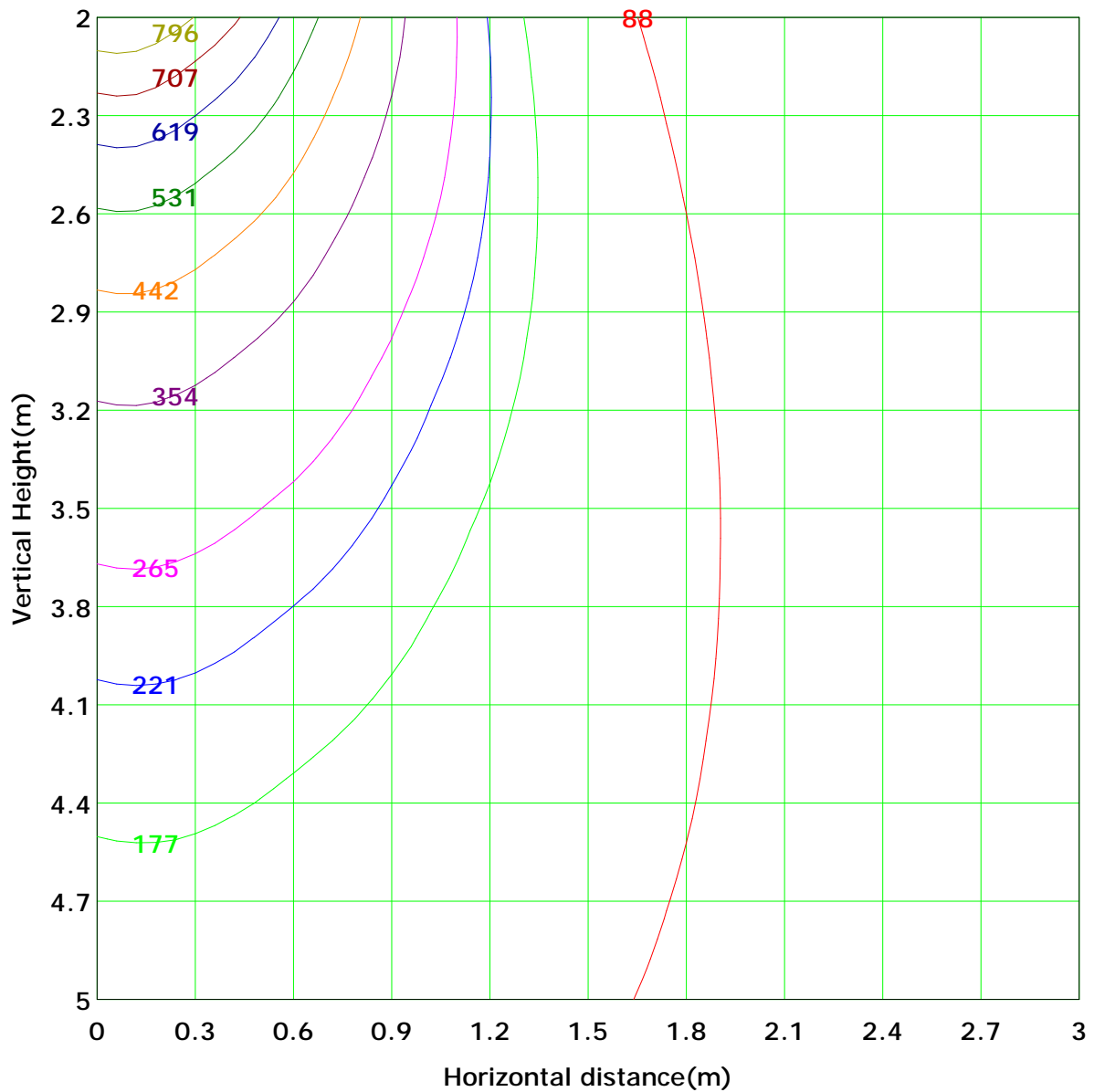
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

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: 884.2 lx
( 10%): 88.4 lx	( 20%): 176.8 lx	
( 25%): 221.0 lx	( 30%): 265.3 lx	
( 40%): 353.7 lx	( 50%): 442.1 lx	
( 60%): 530.5 lx	( 70%): 618.9 lx	
( 80%): 707.4 lx	( 90%): 795.8 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:

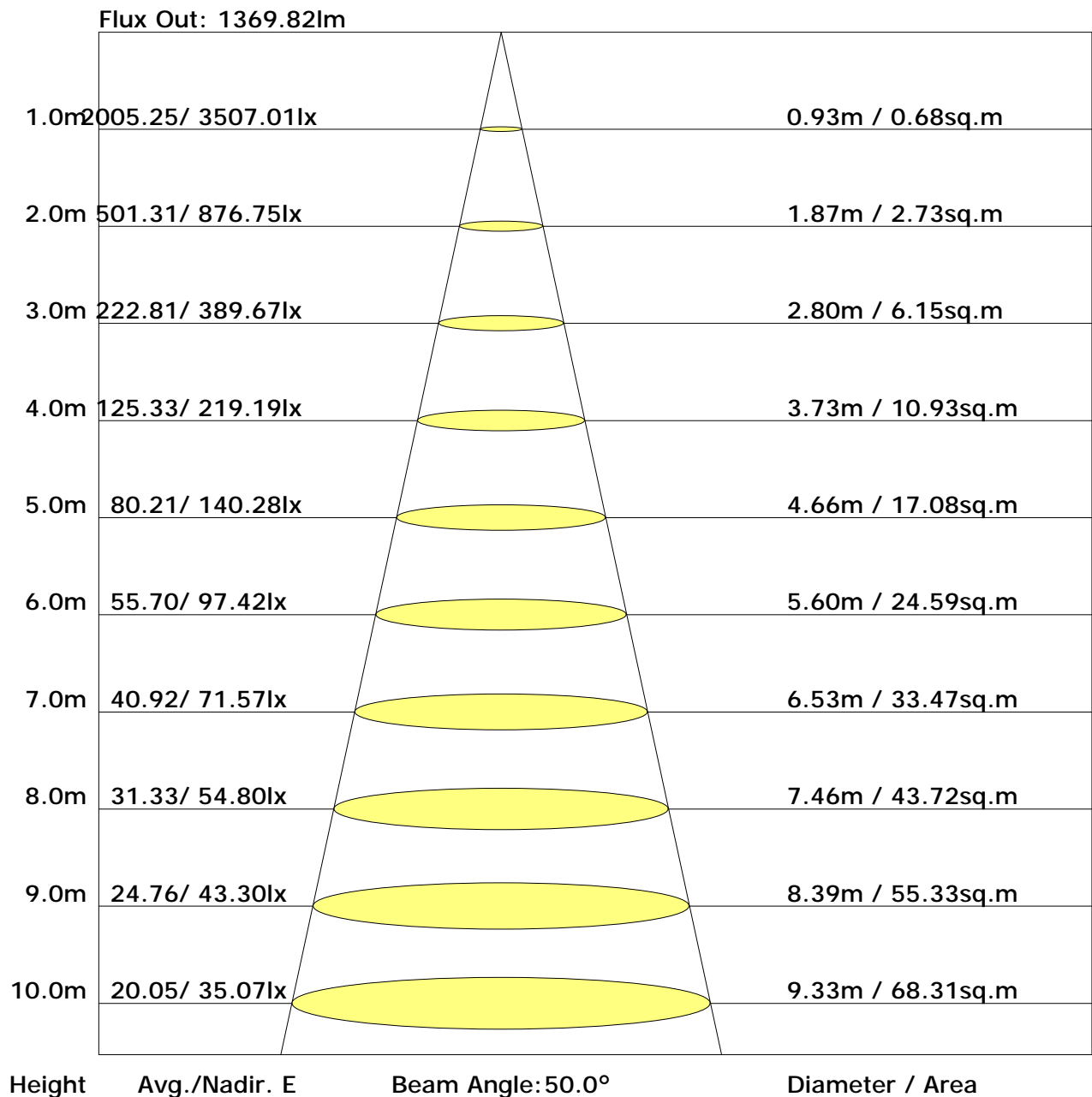
## Area Flux Table

Unit: lm

		Orbit: III																			
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\phi_{\text{Flux(T)}}^{\text{Flux(E)}}$	$\phi_{\text{Flux(T)}}^{\text{Flux(E)}}$
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(E)
	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0
	10	0.0	0.3	1.0	2.6	6.6	17.2	39.4	68.9	94.9	97.9	76.0	46.5	21.5	8.4	3.3	1.3	0.4	0.1	0.0	486.3470.6
	20	0.0	0.3	1.0	2.5	6.3	15.7	34.6	57.8	74.6	76.2	60.8	37.3	17.8	7.3	3.0	1.2	0.4	0.1	0.0	397.0380.3
	30	0.0	0.3	0.9	2.2	5.2	11.7	23.1	37.5	48.5	49.4	39.2	24.4	12.5	5.7	2.5	1.1	0.4	0.1	0.0	264.8245.4
	40	0.0	0.3	0.8	1.8	3.9	7.3	12.7	19.4	24.8	25.1	20.0	13.3	7.7	4.1	2.0	0.9	0.3	0.1	0.0	144.3116.3
	50	0.0	0.2	0.7	1.4	2.6	4.2	6.3	8.8	10.6	10.7	9.0	6.6	4.4	2.7	1.5	0.7	0.3	0.0	0.0	70.919.0
	60	0.0	0.2	0.5	1.0	1.7	2.4	3.1	4.0	4.6	4.6	4.1	3.2	2.5	1.7	1.1	0.6	0.2	0.0	0.0	35.60.0
	70	0.0	0.1	0.4	0.7	1.0	1.4	1.6	1.9	2.1	2.1	2.0	1.7	1.4	1.1	0.8	0.4	0.2	0.0	0.0	18.90.0
	80	0.0	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.5	0.3	0.1	0.0	0.0	10.20.0
	90	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	6.70.0
	Flux(T)	0.7	3.6	10.3	23.0	49.8	108.4	218.8	364.9	485.6	495.6	386.6	239.7	122.8	56.6	26.3	12.1	4.6	0.9	0.0	2610
	Flux(E)	0.0	0.0	0.0	0.0	6.3	78.8	193.9	341.7	462.2	472.3	363.6	215.1	94.2	16.7	0.0	0.0	0.0	0.0	0.0	2245
Horizontal plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(E)



## The Average Illuminance Effective Figure



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	12.9	12.2	13.3	13.7
3H	14.3	15.2	14.7	15.6	16.1	12.6	13.5	13.0	13.9	14.4
4H	14.7	15.6	15.2	16.1	16.6	12.8	13.7	13.3	14.1	14.6
6H	15.1	15.9	15.6	16.4	16.9	13.0	13.8	13.5	14.2	14.8
8H	15.2	16.0	15.8	16.5	17.0	13.1	13.8	13.6	14.3	14.8
12H	15.4	16.1	15.9	16.5	17.1	13.2	13.9	13.7	14.4	14.9
X=4H Y=2H	13.1	13.9	13.6	14.4	14.9	12.2	13.0	12.7	13.5	14.0
3H	14.4	15.1	14.9	15.6	16.1	13.1	13.8	13.6	14.3	14.8
4H	15.0	15.6	15.5	16.1	16.7	13.4	14.1	14.0	14.6	15.1
6H	15.5	16.0	16.0	16.6	17.1	13.7	14.3	14.2	14.8	15.4
8H	15.7	16.2	16.2	16.7	17.3	13.8	14.3	14.4	14.9	15.4
12H	15.8	16.3	16.4	16.9	17.4	14.0	14.4	14.5	15.0	15.6
X=8H Y=4H	15.0	15.5	15.5	16.0	16.6	13.6	14.2	14.2	14.7	15.3
6H	15.5	16.0	16.1	16.5	17.1	14.0	14.4	14.6	15.0	15.6
8H	15.8	16.2	16.4	16.8	17.4	14.2	14.5	14.8	15.1	15.7
12H	16.1	16.4	16.7	17.0	17.6	14.4	14.8	15.0	15.3	16.0
X=12H Y=4H	14.9	15.4	15.5	15.9	16.5	13.6	14.1	14.2	14.7	15.2
6H	15.5	15.9	16.1	16.4	17.1	14.0	14.4	14.6	14.9	15.6
8H	15.8	16.1	16.4	16.7	17.4	14.3	14.6	14.9	15.2	15.8

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	0.77	0.84	0.89	0.93	0.98	1.01	1.03	1.06	1.08
	0.30		0.71	0.79	0.84	0.88	0.94	0.97	1.00	1.03	1.06
	0.20		0.67	0.75	0.80	0.85	0.90	0.94	0.97	1.01	1.03
0.50	0.50	0.20	0.75	0.82	0.87	0.90	0.94	0.97	0.99	1.01	1.03
	0.30		0.70	0.77	0.82	0.86	0.91	0.94	0.96	0.99	1.01
	0.20		0.67	0.74	0.79	0.83	0.88	0.91	0.94	0.97	0.99
0.30	0.50	0.20	0.73	0.80	0.84	0.87	0.91	0.93	0.95	0.97	0.98
	0.30		0.69	0.76	0.81	0.84	0.88	0.91	0.93	0.95	0.97
	0.20		0.66	0.73	0.78	0.81	0.86	0.89	0.91	0.94	0.96
0.00	0.00	0.00	0.64	0.70	0.75	0.78	0.82	0.84	0.86	0.89	0.90
Rating: 33W 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	0.68	0.55	0.47	0.40	0.32	0.26	0.22	0.17	0.14
	0.30		0.57	0.47	0.41	0.36	0.29	0.24	0.21	0.16	0.14
	0.20		0.49	0.41	0.36	0.32	0.26	0.22	0.19	0.15	0.13
0.50	0.50	0.20	0.65	0.52	0.44	0.37	0.29	0.28	0.21	0.16	0.13
	0.30		0.55	0.45	0.38	0.34	0.27	0.22	0.19	0.15	0.12
	0.20		0.47	0.40	0.34	0.30	0.25	0.21	0.18	0.14	0.12
0.30	0.50	0.20	0.61	0.49	0.41	0.35	0.27	0.22	0.19	0.15	0.12
	0.30		0.52	0.43	0.36	0.32	0.25	0.21	0.18	0.14	0.11
	0.20		0.46	0.38	0.33	0.29	0.23	0.20	0.17	0.13	0.11
0.00	0.00	0.00	0.33	0.26	0.22	0.19	0.15	0.12	0.10	0.08	0.06
Rating: 33W 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	0.18	0.20	0.21	0.21	0.23	0.23	0.24	0.25	0.25
	0.30		0.13	0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24
	0.20		0.10	0.12	0.13	0.15	0.17	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.24
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.23
	0.20		0.10	0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.21
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22
	0.20		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Rating: 33W 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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3499.2	3.3	3.3	0.12	0.12
1.0-2.0	3484.2	10.0	13.4	0.37	0.49
2.0-3.0	3454.4	16.5	29.9	0.60	1.09
3.0-4.0	3412.3	22.8	52.7	0.84	1.93
4.0-5.0	3359.8	28.9	81.6	1.06	2.99
5.0-6.0	3298.9	34.7	116.3	1.27	4.26
6.0-7.0	3231.1	40.1	156.4	1.47	5.73
7.0-8.0	3157.0	45.2	201.6	1.65	7.38
8.0-9.0	3077.7	49.9	251.5	1.83	9.21
9.0-10.0	2995.3	54.2	305.7	1.98	11.19
10.0-11.0	2911.2	58.2	363.9	2.13	13.32
11.0-12.0	2824.0	61.7	425.6	2.26	15.58
12.0-13.0	2734.1	64.9	490.5	2.38	17.96
13.0-14.0	2642.9	67.7	558.2	2.48	20.43
14.0-15.0	2548.7	70.0	628.1	2.56	23.00
15.0-16.0	2453.5	71.9	700.0	2.63	25.63
16.0-17.0	2359.0	73.5	773.5	2.69	28.32
17.0-18.0	2262.9	74.6	848.1	2.73	31.05
18.0-19.0	2166.3	75.4	923.5	2.76	33.81
19.0-20.0	2069.3	75.7	999.3	2.77	36.58
20.0-21.0	1970.6	75.7	1074.9	2.77	39.35
21.0-22.0	1871.9	75.2	1150.2	2.75	42.11
22.0-23.0	1774.1	74.5	1224.6	2.73	44.83
23.0-24.0	1676.9	73.3	1298.0	2.68	47.52
24.0-25.0	1580.1	71.9	1369.8	2.63	50.15
25.0-26.0	1484.2	70.1	1439.9	2.57	52.71
26.0-27.0	1390.0	68.0	1507.9	2.49	55.20
27.0-28.0	1297.6	65.7	1573.6	2.41	57.61
28.0-29.0	1207.7	63.2	1636.8	2.31	59.92
29.0-30.0	1121.3	60.6	1697.4	2.22	62.14
30.0-31.0	1038.5	57.8	1755.2	2.12	64.25
31.0-32.0	960.7	55.0	1810.2	2.02	66.27
32.0-33.0	886.8	52.3	1862.4	1.91	68.18
33.0-34.0	816.6	49.4	1911.9	1.81	69.99
34.0-35.0	751.0	46.6	1958.5	1.71	71.70
35.0-36.0	689.0	43.9	2002.4	1.61	73.30

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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	629.4	41.1	2043.4	1.50	74.81
37.0-38.0	574.2	38.3	2081.8	1.40	76.21
38.0-39.0	525.0	35.8	2117.6	1.31	77.52
39.0-40.0	479.2	33.4	2151.0	1.22	78.75
40.0-41.0	435.5	31.0	2182.1	1.14	79.88
41.0-42.0	396.6	28.8	2210.9	1.05	80.94
42.0-43.0	363.5	26.9	2237.8	0.99	81.92
43.0-44.0	334.1	25.2	2263.0	0.92	82.85
44.0-45.0	307.1	23.6	2286.6	0.86	83.71
45.0-46.0	282.5	22.1	2308.7	0.81	84.52
46.0-47.0	260.0	20.7	2329.4	0.76	85.28
47.0-48.0	239.0	19.3	2348.7	0.71	85.98
48.0-49.0	219.8	18.0	2366.8	0.66	86.64
49.0-50.0	202.0	16.8	2383.6	0.62	87.26
50.0-51.0	185.2	15.7	2399.3	0.57	87.83
51.0-52.0	169.7	14.6	2413.9	0.53	88.37
52.0-53.0	155.5	13.5	2427.4	0.50	88.86
53.0-54.0	142.7	12.6	2440.0	0.46	89.32
54.0-55.0	131.1	11.7	2451.7	0.43	89.75
55.0-56.0	120.2	10.9	2462.5	0.40	90.15
56.0-57.0	110.1	10.1	2472.6	0.37	90.52
57.0-58.0	101.2	9.4	2482.0	0.34	90.86
58.0-59.0	93.6	8.8	2490.7	0.32	91.18
59.0-60.0	86.8	8.2	2498.9	0.30	91.48
60.0-61.0	80.8	7.7	2506.6	0.28	91.76
61.0-62.0	75.5	7.3	2513.9	0.27	92.03
62.0-63.0	70.6	6.9	2520.8	0.25	92.28
63.0-64.0	66.0	6.5	2527.2	0.24	92.52
64.0-65.0	61.8	6.1	2533.4	0.22	92.74
65.0-66.0	57.8	5.8	2539.1	0.21	92.95
66.0-67.0	54.0	5.4	2544.6	0.20	93.15
67.0-68.0	50.4	5.1	2549.7	0.19	93.34
68.0-69.0	46.9	4.8	2554.4	0.18	93.51
69.0-70.0	43.7	4.5	2558.9	0.16	93.68
70.0-71.0	40.8	4.2	2563.2	0.15	93.83
71.0-72.0	38.3	4.0	2567.1	0.15	93.98

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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	36.0	3.8	2570.9	0.14	94.12
73.0-74.0	33.9	3.6	2574.5	0.13	94.25
74.0-75.0	31.8	3.4	2577.8	0.12	94.37
75.0-76.0	29.7	3.2	2581.0	0.12	94.49
76.0-77.0	27.6	2.9	2583.9	0.11	94.59
77.0-78.0	25.6	2.7	2586.7	0.10	94.69
78.0-79.0	23.8	2.6	2589.2	0.09	94.79
79.0-80.0	22.3	2.4	2591.6	0.09	94.88
80.0-81.0	21.1	2.3	2593.9	0.08	94.96
81.0-82.0	20.0	2.2	2596.1	0.08	95.04
82.0-83.0	19.1	2.1	2598.2	0.08	95.12
83.0-84.0	18.3	2.0	2600.2	0.07	95.19
84.0-85.0	17.6	1.9	2602.1	0.07	95.26
85.0-86.0	17.0	1.9	2604.0	0.07	95.33
86.0-87.0	16.7	1.8	2605.8	0.07	95.39
87.0-88.0	16.4	1.8	2607.6	0.07	95.46
88.0-89.0	16.2	1.8	2609.4	0.07	95.52
89.0-90.0	16.1	1.8	2611.1	0.06	95.59
90.0-91.0	16.0	1.8	2612.9	0.06	95.65
91.0-92.0	16.0	1.7	2614.6	0.06	95.72
92.0-93.0	15.9	1.7	2616.4	0.06	95.78
93.0-94.0	15.9	1.7	2618.1	0.06	95.85
94.0-95.0	15.9	1.7	2619.9	0.06	95.91
95.0-96.0	15.9	1.7	2621.6	0.06	95.97
96.0-97.0	15.8	1.7	2623.3	0.06	96.04
97.0-98.0	15.9	1.7	2625.0	0.06	96.10
98.0-99.0	15.9	1.7	2626.8	0.06	96.16
99.0-100.0	15.8	1.7	2628.5	0.06	96.22
100.0-101.0	15.7	1.7	2630.2	0.06	96.29
101.0-102.0	15.7	1.7	2631.9	0.06	96.35
102.0-103.0	15.7	1.7	2633.5	0.06	96.41
103.0-104.0	15.7	1.7	2635.2	0.06	96.47
104.0-105.0	15.7	1.7	2636.9	0.06	96.53
105.0-106.0	15.7	1.7	2638.5	0.06	96.59
106.0-107.0	15.7	1.7	2640.2	0.06	96.65
107.0-108.0	15.8	1.6	2641.8	0.06	96.71

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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	15.8	1.6	2643.5	0.06	96.77
109.0-110.0	15.9	1.6	2645.1	0.06	96.83
110.0-111.0	15.9	1.6	2646.8	0.06	96.89
111.0-112.0	16.0	1.6	2648.4	0.06	96.95
112.0-113.0	16.1	1.6	2650.0	0.06	97.01
113.0-114.0	16.2	1.6	2651.7	0.06	97.07
114.0-115.0	16.3	1.6	2653.3	0.06	97.13
115.0-116.0	16.5	1.6	2654.9	0.06	97.19
116.0-117.0	16.6	1.6	2656.5	0.06	97.25
117.0-118.0	16.7	1.6	2658.2	0.06	97.31
118.0-119.0	16.8	1.6	2659.8	0.06	97.37
119.0-120.0	17.0	1.6	2661.4	0.06	97.43
120.0-121.0	17.2	1.6	2663.0	0.06	97.49
121.0-122.0	17.3	1.6	2664.7	0.06	97.55
122.0-123.0	17.5	1.6	2666.3	0.06	97.61
123.0-124.0	17.7	1.6	2667.9	0.06	97.67
124.0-125.0	17.9	1.6	2669.5	0.06	97.73
125.0-126.0	18.1	1.6	2671.1	0.06	97.79
126.0-127.0	18.3	1.6	2672.7	0.06	97.84
127.0-128.0	18.5	1.6	2674.3	0.06	97.90
128.0-129.0	18.8	1.6	2675.9	0.06	97.96
129.0-130.0	19.0	1.6	2677.6	0.06	98.02
130.0-131.0	19.3	1.6	2679.2	0.06	98.08
131.0-132.0	19.5	1.6	2680.8	0.06	98.14
132.0-133.0	19.8	1.6	2682.4	0.06	98.20
133.0-134.0	20.0	1.6	2684.0	0.06	98.26
134.0-135.0	20.3	1.6	2685.5	0.06	98.31
135.0-136.0	20.6	1.6	2687.1	0.06	98.37
136.0-137.0	20.9	1.6	2688.7	0.06	98.43
137.0-138.0	21.2	1.6	2690.3	0.06	98.49
138.0-139.0	21.5	1.6	2691.8	0.06	98.54
139.0-140.0	21.8	1.6	2693.4	0.06	98.60
140.0-141.0	22.2	1.5	2694.9	0.06	98.66
141.0-142.0	22.5	1.5	2696.5	0.06	98.71
142.0-143.0	22.8	1.5	2698.0	0.06	98.77
143.0-144.0	23.1	1.5	2699.5	0.06	98.83

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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	23.5	1.5	2701.0	0.05	98.88
145.0-146.0	23.8	1.5	2702.5	0.05	98.93
146.0-147.0	24.1	1.5	2703.9	0.05	98.99
147.0-148.0	24.4	1.4	2705.4	0.05	99.04
148.0-149.0	24.8	1.4	2706.8	0.05	99.09
149.0-150.0	25.1	1.4	2708.2	0.05	99.14
150.0-151.0	25.4	1.4	2709.6	0.05	99.19
151.0-152.0	25.7	1.3	2710.9	0.05	99.24
152.0-153.0	26.0	1.3	2712.2	0.05	99.29
153.0-154.0	26.3	1.3	2713.5	0.05	99.34
154.0-155.0	26.6	1.3	2714.8	0.05	99.38
155.0-156.0	26.8	1.2	2716.0	0.04	99.43
156.0-157.0	27.1	1.2	2717.2	0.04	99.47
157.0-158.0	27.4	1.2	2718.3	0.04	99.51
158.0-159.0	27.7	1.1	2719.4	0.04	99.55
159.0-160.0	27.9	1.1	2720.5	0.04	99.59
160.0-161.0	28.1	1.0	2721.5	0.04	99.63
161.0-162.0	28.3	1.0	2722.5	0.04	99.67
162.0-163.0	28.6	0.9	2723.5	0.03	99.70
163.0-164.0	28.8	0.9	2724.4	0.03	99.73
164.0-165.0	29.0	0.8	2725.2	0.03	99.77
165.0-166.0	29.1	0.8	2726.0	0.03	99.80
166.0-167.0	29.3	0.8	2726.8	0.03	99.82
167.0-168.0	29.5	0.7	2727.5	0.03	99.85
168.0-169.0	29.7	0.6	2728.1	0.02	99.87
169.0-170.0	29.8	0.6	2728.7	0.02	99.89
170.0-171.0	30.0	0.5	2729.2	0.02	99.91
171.0-172.0	30.1	0.5	2729.7	0.02	99.93
172.0-173.0	30.3	0.4	2730.2	0.02	99.95
173.0-174.0	30.4	0.4	2730.5	0.01	99.96
174.0-175.0	30.5	0.3	2730.9	0.01	99.97
175.0-176.0	30.6	0.3	2731.1	0.01	99.98
176.0-177.0	30.7	0.2	2731.3	0.01	99.99
177.0-178.0	30.8	0.1	2731.5	0.01	100.00
178.0-179.0	30.9	0.1	2731.6	0.00	100.00
179.0-180.0	30.9	0.0	2731.6	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: