

Report No.:

Test Time: 2022/1/4 10:02

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Double Row Ribbonlyte

Luminaire Description: DRRB0VWS22012.0VW

Lamp Catalog: 3527-2100+6200K

Number of Lamps: 280/M

Luminous Width (mm): 22

Voltage: 24.0 V

Power: 9.41 W

Lamp Description: 2100K

Luminous Length (mm): 500

Luminous Height (mm): 2

Current: 0.392 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 658.2 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H159.9,H112.7

Vertical Diffuse Angle(10%,50%): V159.7,V113

Luminaire Efficacy Rating (LER): 70

Max. Intensity: 229.03 cd

Total Rated Lamp Lumens: 658.2 lm

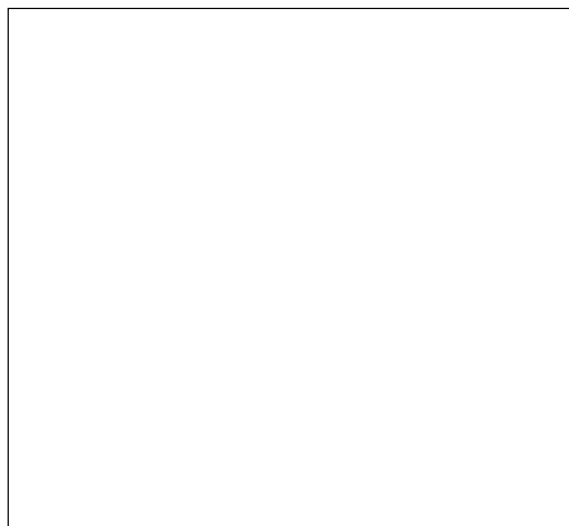
Efficiency: 100%

Upward Ratio: 1%

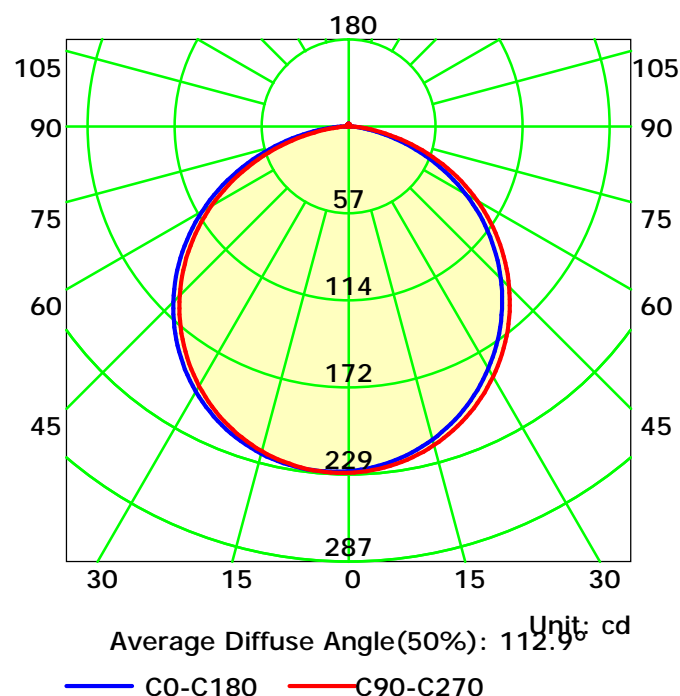
Central Intensity: 227.6 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



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

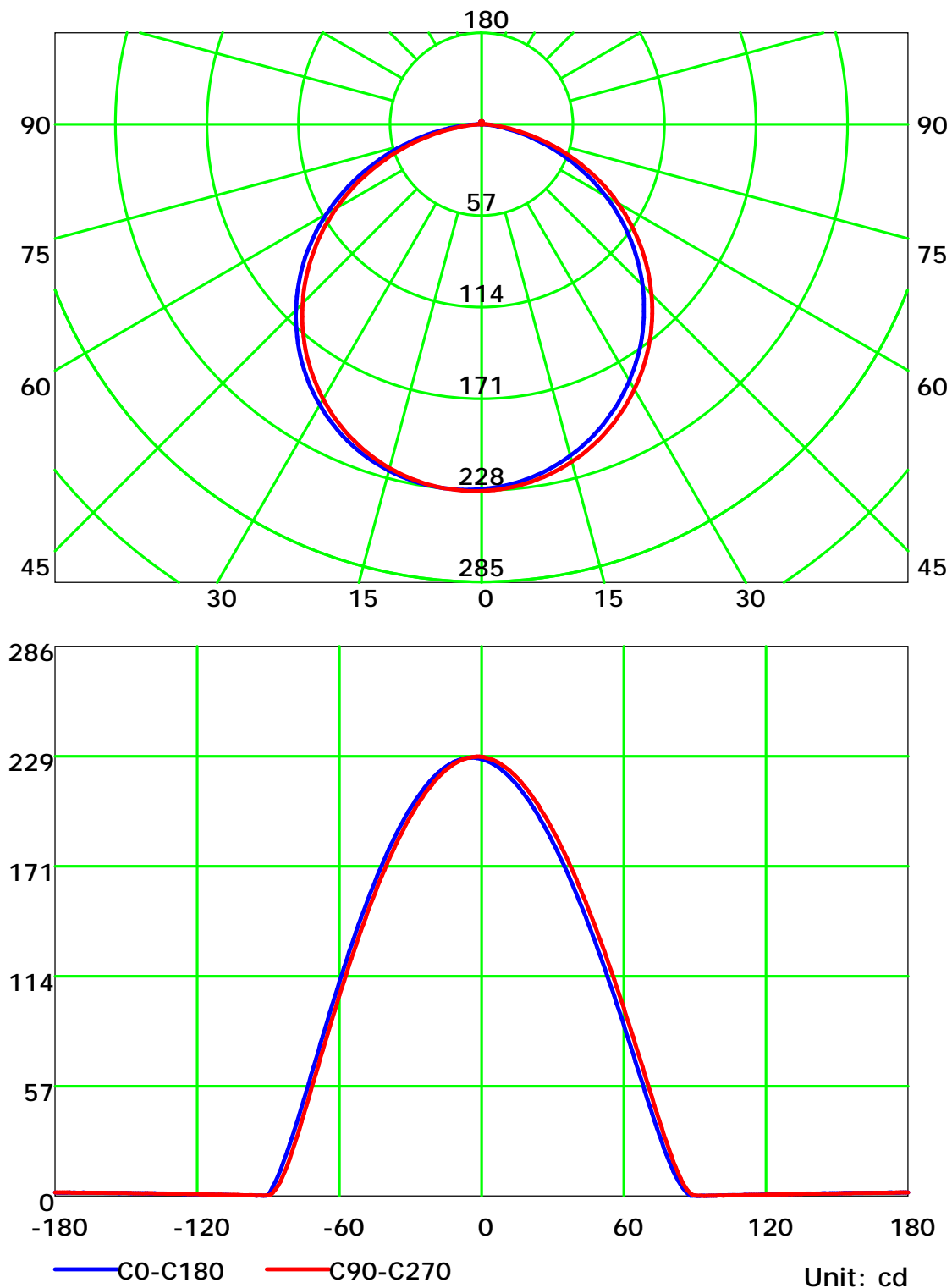
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

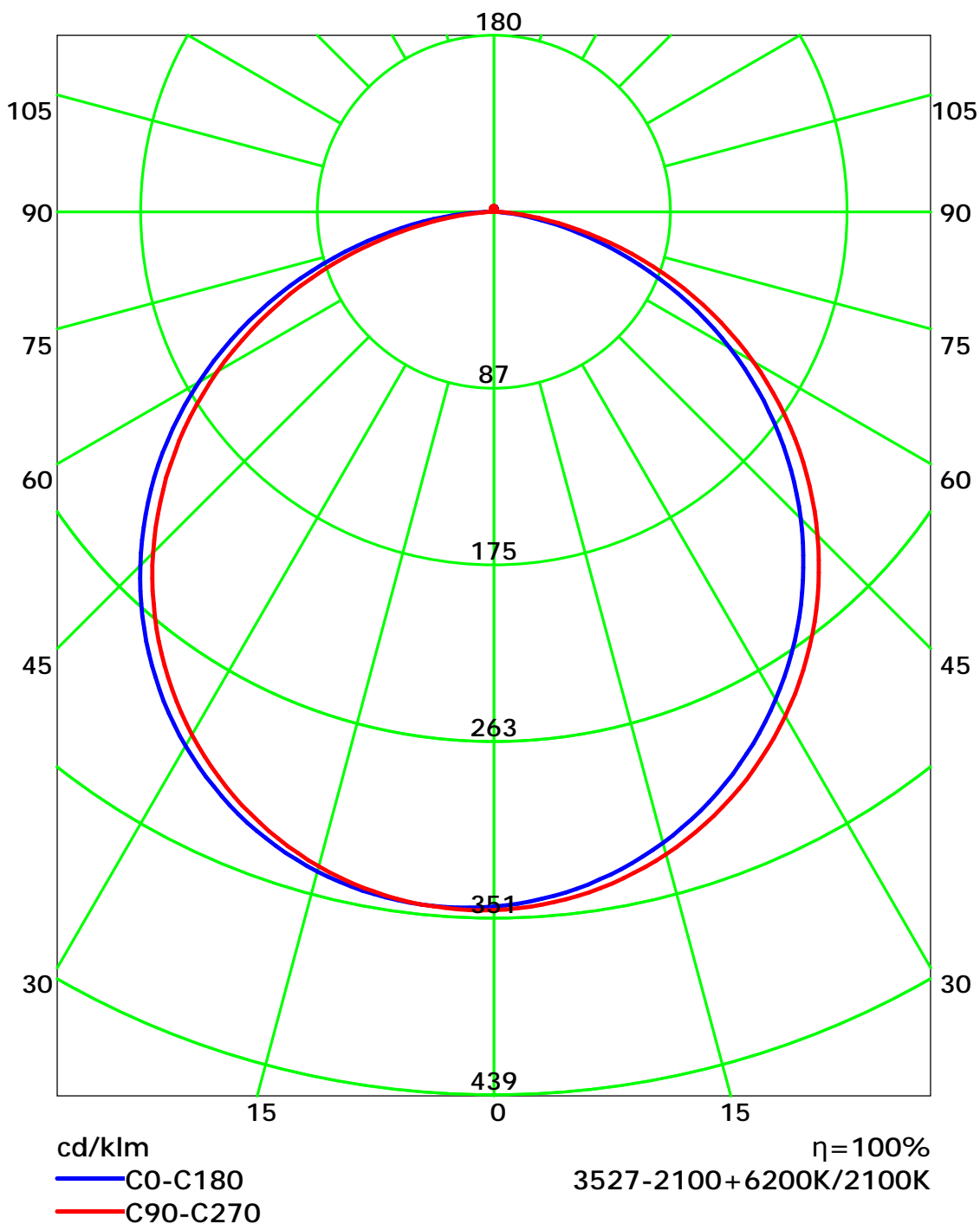
## Luminous Intensity Distribution Curve



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:

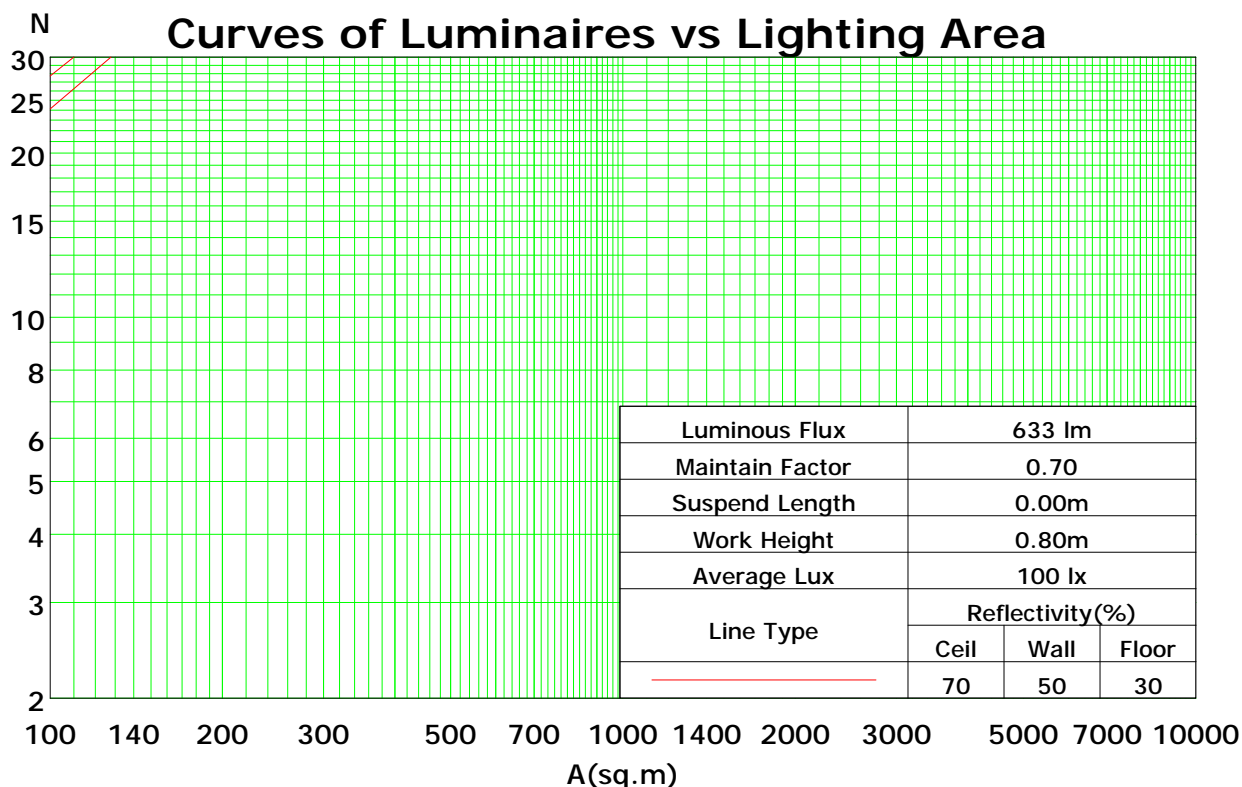
## Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	48	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

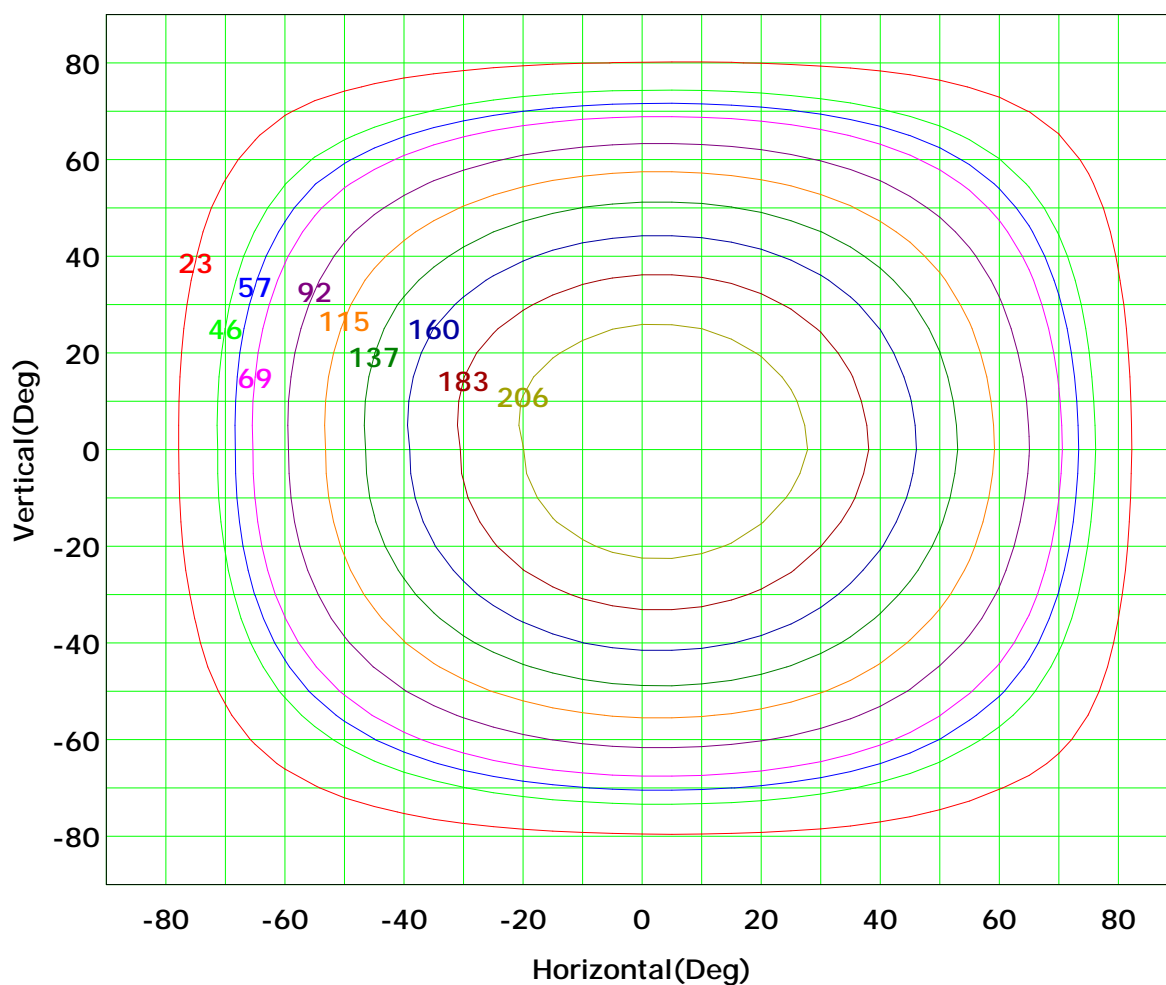
Spacing Criteria (Diagonal): 1.38



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)



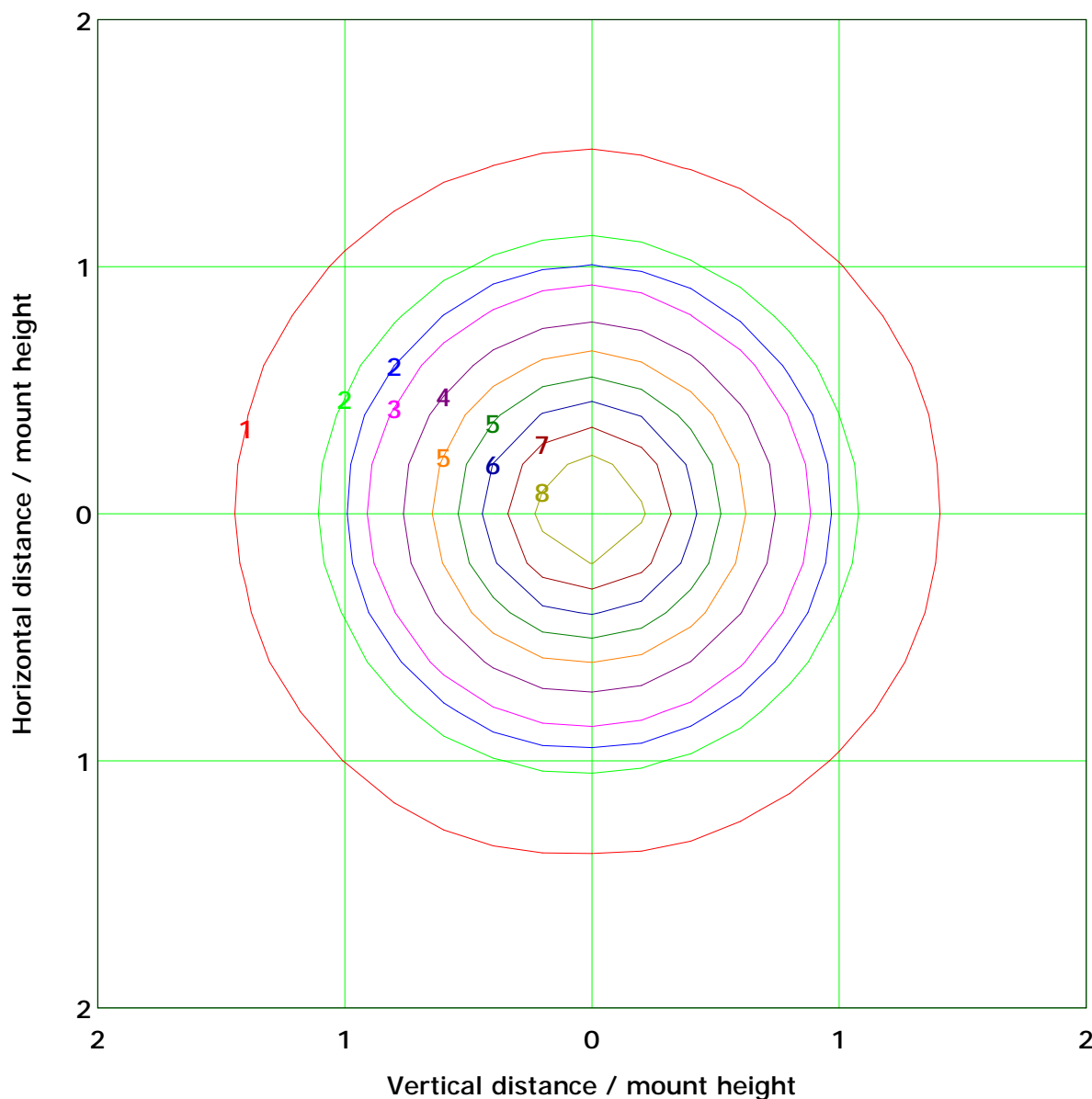
I<sub>max</sub> (100%): 229 cd

( 10%):	23 cd	( 20%):	46 cd
( 25%):	57 cd	( 30%):	69 cd
( 40%):	92 cd	( 50%):	115 cd
( 60%):	137 cd	( 70%):	160 cd
( 80%):	183 cd	( 90%):	206 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%): 9.2 lx

( 10%): 0.9 lx	( 20%): 1.8 lx
( 25%): 2.3 lx	( 30%): 2.7 lx
( 40%): 3.7 lx	( 50%): 4.6 lx
( 60%): 5.5 lx	( 70%): 6.4 lx
( 80%): 7.3 lx	( 90%): 8.2 lx

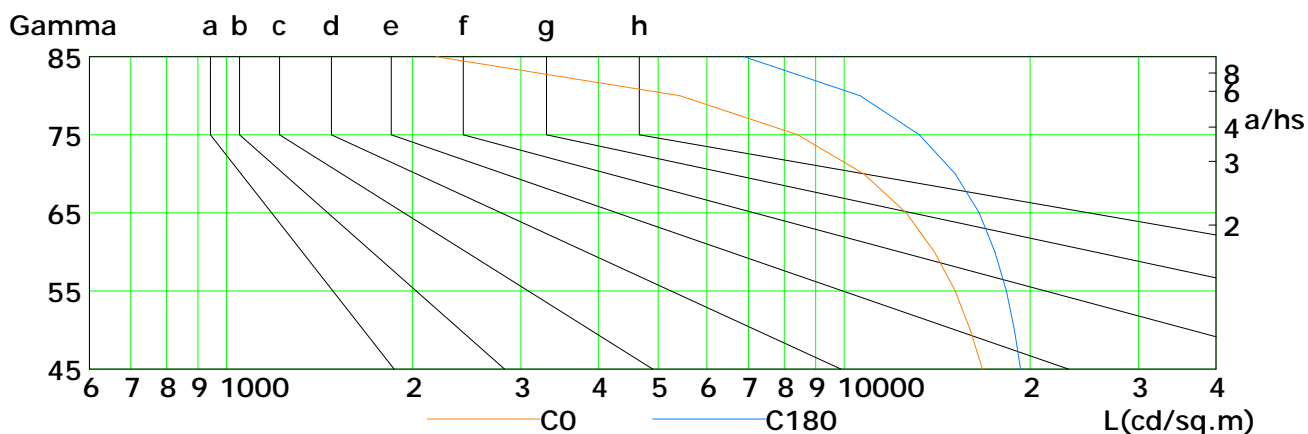
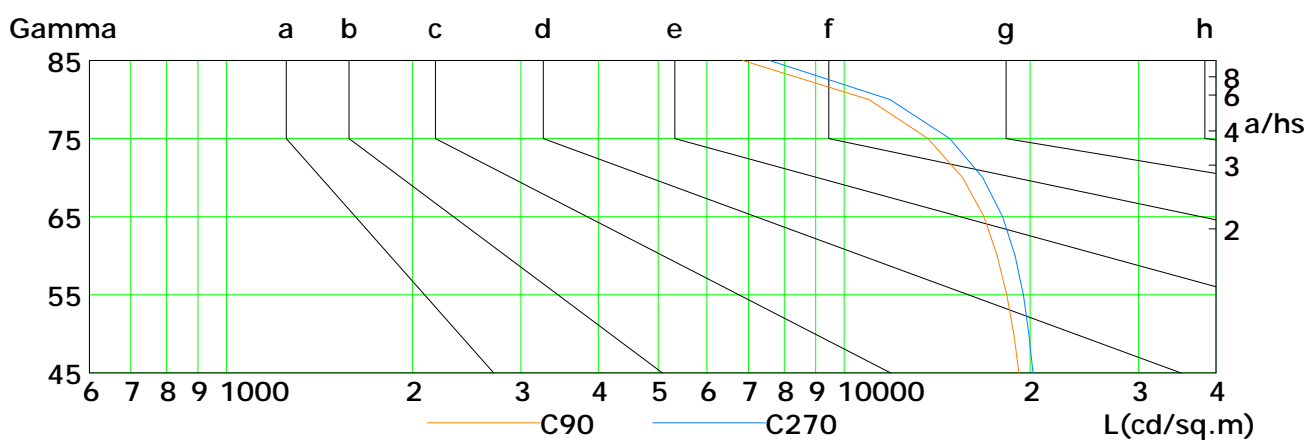
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: JACKY

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



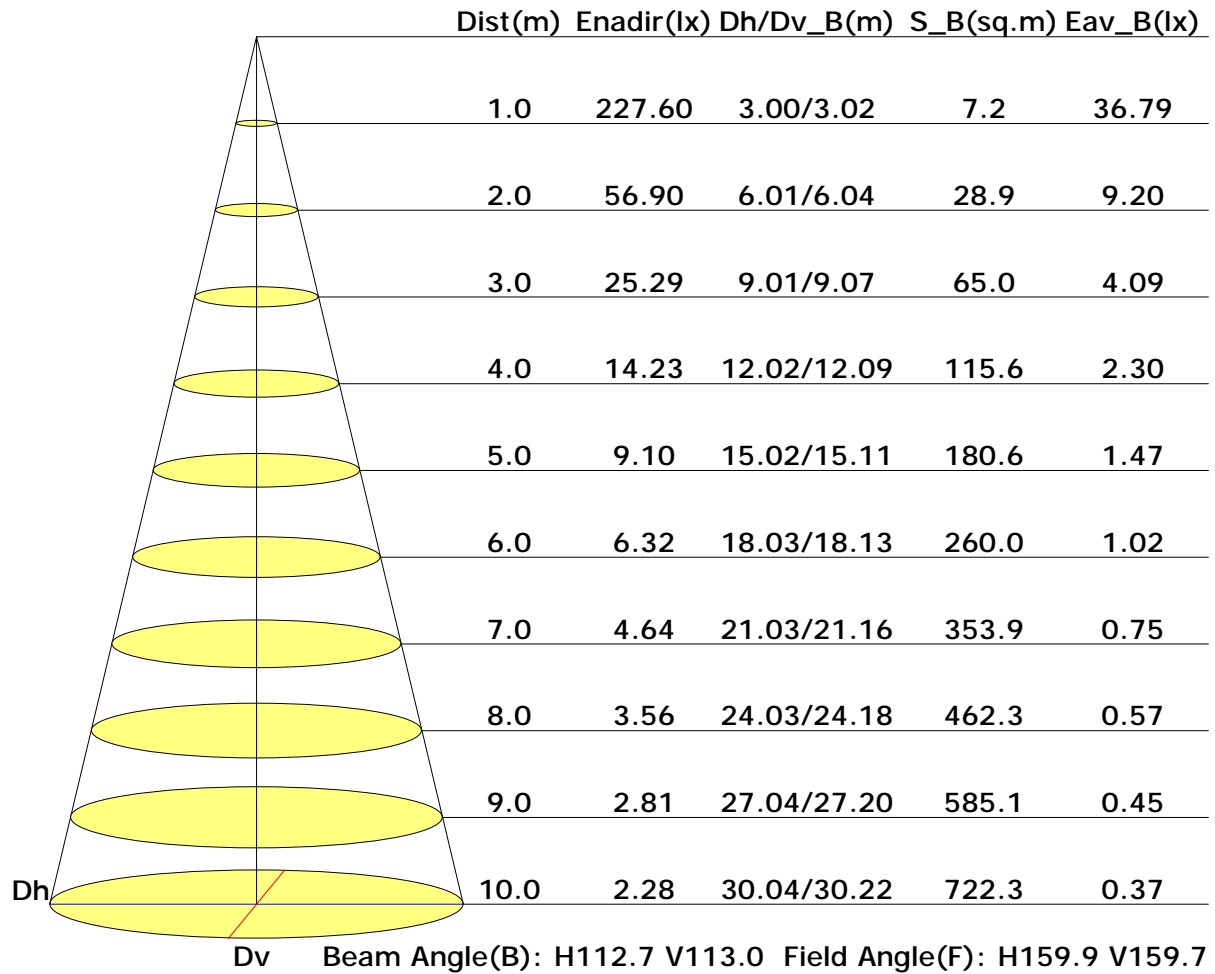
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16750	16016	15142	14013	12614	10755	8419	5423	2189
C90	19196	18822	18344	17705	16843	15551	13677	10970	6853
C180	19317	18879	18311	17540	16545	15136	13239	10619	6885
C270	20222	19915	19509	18909	18065	16766	14840	11861	7581

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Temperature: 25  
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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

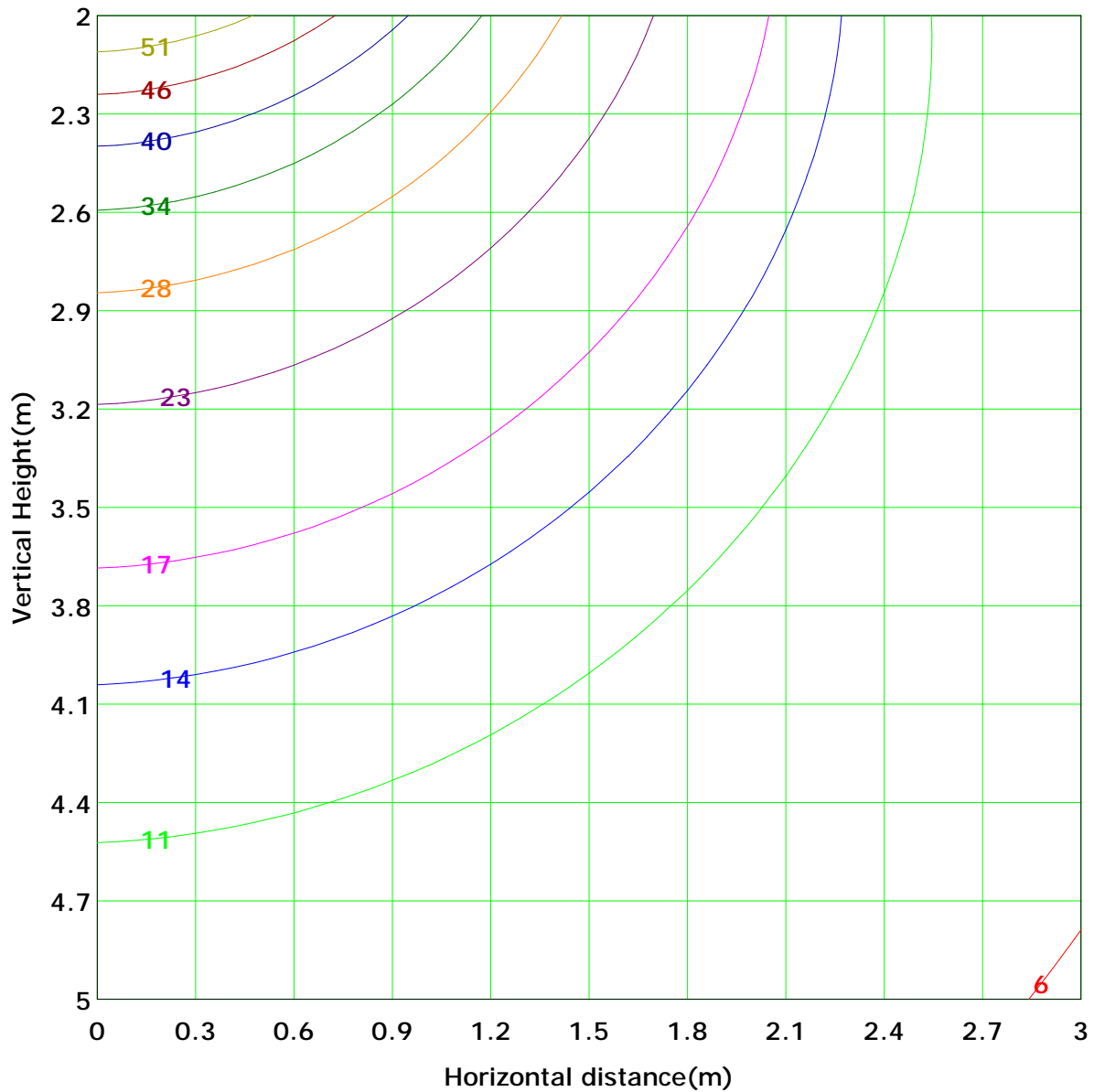


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 56.9 lx
( 10%): 5.7 lx	( 20%): 11.4 lx	
( 25%): 14.2 lx	( 30%): 17.1 lx	
( 40%): 22.8 lx	( 50%): 28.5 lx	
( 60%): 34.1 lx	( 70%): 39.8 lx	
( 80%): 45.5 lx	( 90%): 51.2 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

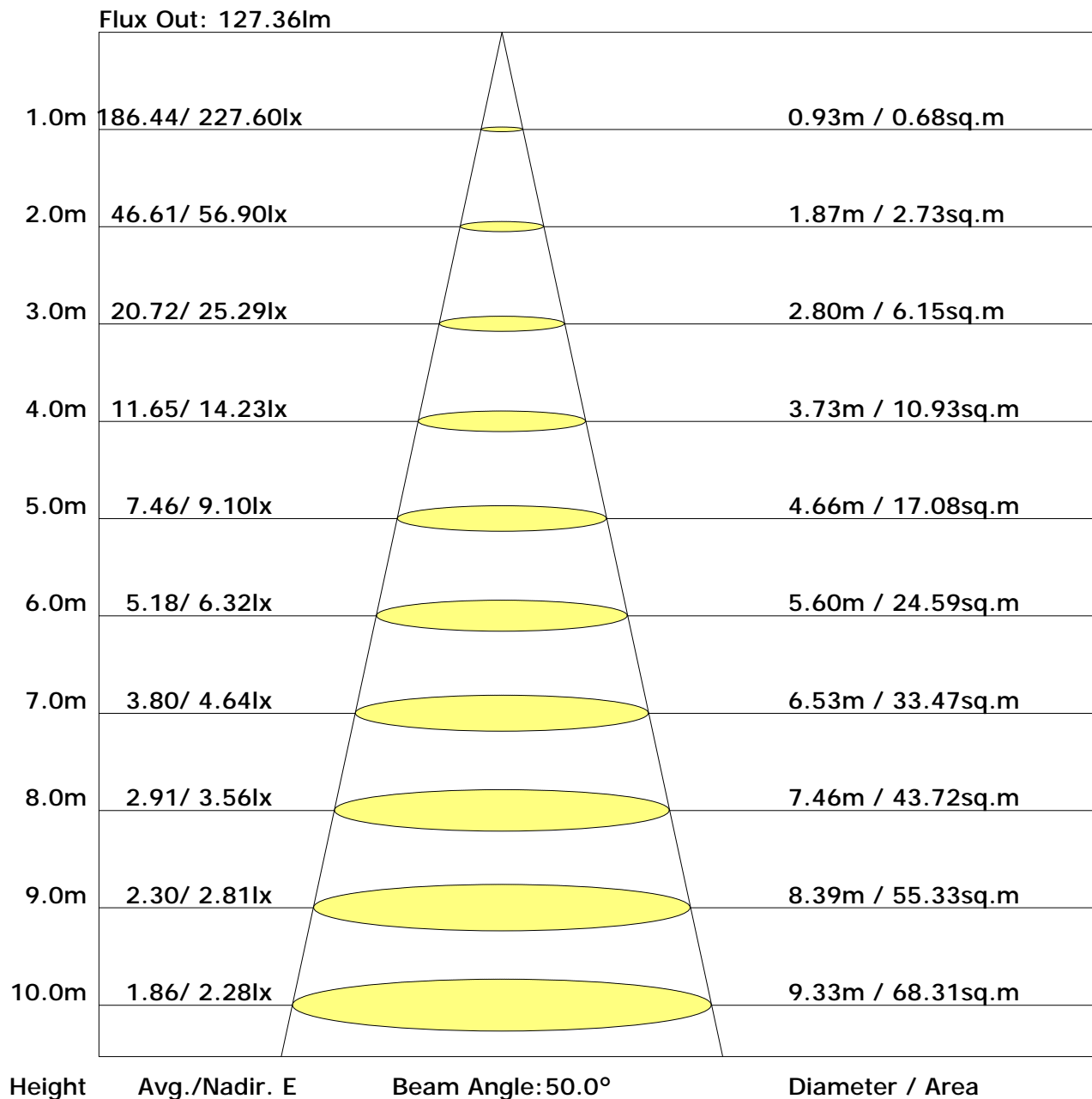
Flux(E)	Vertical plane																	Flux(T)	Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.1
0.6	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	0.6
12.3	0.0	0.1	0.4	0.8	1.2	1.7	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	12.3	0.6
23.3	0.0	0.2	0.6	1.2	1.8	2.5	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	23.3	0.6
36.7	0.0	0.3	0.9	1.8	2.8	3.8	4.7	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	36.7	0.6
50.2	0.0	0.4	1.1	2.0	3.2	4.3	5.2	5.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	50.2	0.6
61.9	0.0	0.4	1.1	2.2	3.4	4.6	5.6	6.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	61.9	0.6
70.4	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	70.4	0.6
74.5	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	74.5	0.6
73.7	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	73.7	0.6
68.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	68.0	0.6
58.4	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	58.4	0.6
46.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	46.0	0.6
32.5	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	32.5	0.6
19.5	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	19.5	0.6
8.9	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.9	0.6
1.8	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	1.8	0.6
0.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0.0	0.6
2.6	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	2.6	0.6
9.7	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.7	0.6
21.5	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	21.5	0.6
32.1	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	32.1	0.6
41.4	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	41.4	0.6
49.1	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	49.1	0.6
55.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	55.0	0.6
58.8	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	58.8	0.6
60.4	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	60.4	0.6
60.5	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	60.5	0.6
59.9	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	59.9	0.6
57.4	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	57.4	0.6
53.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	53.0	0.6
46.8	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	46.8	0.6
38.9	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	38.9	0.6
29.8	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	29.8	0.6
20.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	20.0	0.6
19.5	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	19.5	0.6
8.1	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.1	0.6
2.1	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	2.1	0.6
0.0	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0.0	0.6
651	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	651	0.6
641	0.0	0.4	1.2	2.3	3.5	4.7	5.8	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	641	0.6

C Plane (°): 0.0-360.0: 30.0  
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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



C Plane (°):0.0-360.0: 30.0  
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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	23.1	24.7	23.5	25.1	25.4	23.1	24.8	23.5	25.1	25.4
3H	24.7	26.1	25.1	26.5	26.9	24.8	26.2	25.2	26.6	27.0
4H	25.2	26.5	25.6	26.9	27.3	25.3	26.7	25.7	27.0	27.4
6H	25.5	26.7	25.9	27.1	27.5	25.6	26.9	26.0	27.3	27.7
8H	25.5	26.7	25.9	27.1	27.5	25.7	26.9	26.1	27.3	27.7
12H	25.5	26.7	26.0	27.1	27.5	25.7	26.9	26.1	27.3	27.7
X=4H Y=2H	23.7	25.1	24.1	25.5	25.9	23.8	25.1	24.2	25.5	25.9
3H	25.5	26.7	25.9	27.1	27.5	25.6	26.7	26.0	27.1	27.6
4H	26.1	27.2	26.6	27.6	28.0	26.2	27.3	26.7	27.7	28.1
6H	26.5	27.4	27.0	27.9	28.3	26.6	27.5	27.1	28.0	28.5
8H	26.6	27.4	27.0	27.9	28.4	26.7	27.6	27.2	28.0	28.5
12H	26.6	27.3	27.1	27.8	28.3	26.7	27.5	27.2	28.0	28.5
X=8H Y=4H	26.4	27.2	26.8	27.7	28.2	26.5	27.3	26.9	27.8	28.3
6H	26.8	27.5	27.3	28.0	28.5	26.9	27.7	27.5	28.2	28.7
8H	26.9	27.6	27.5	28.1	28.6	27.1	27.7	27.6	28.2	28.7
12H	27.0	27.5	27.5	28.1	28.6	27.1	27.7	27.7	28.2	28.8
X=12H Y=4H	26.4	27.1	26.9	27.6	28.1	26.5	27.2	27.0	27.7	28.2
6H	26.8	27.5	27.4	28.0	28.5	27.0	27.6	27.5	28.1	28.7
8H	27.0	27.5	27.5	28.1	28.6	27.1	27.7	27.7	28.2	28.8

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 = 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	0.67	0.74	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.48	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.43	0.53	0.61	0.67	0.76	0.82	0.86	0.92	0.97
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.47	0.58	0.65	0.71	0.78	0.84	0.88	0.93	0.96
	0.20		0.42	0.53	0.60	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.89	0.92
	0.20		0.42	0.52	0.59	0.65	0.72	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.40	0.49	0.56	0.62	0.69	0.74	0.78	0.82	0.85
<p>Rating:9W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

## 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	1.00	0.82	0.70	0.61	0.48	0.40	0.34	0.26	0.22	
	0.30		0.83	0.70	0.61	0.54	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	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.46	0.42	0.33	0.25	0.20	
	0.30		0.81	0.69	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.36	0.31	0.24	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
Rating: 9W 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	0.17	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	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	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating:9W 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	228.3	0.2	0.2	0.03	0.03
1.0-2.0	228.3	0.7	0.9	0.10	0.13
2.0-3.0	228.1	1.1	2.0	0.17	0.30
3.0-4.0	227.9	1.5	3.5	0.23	0.53
4.0-5.0	227.6	2.0	5.4	0.30	0.83
5.0-6.0	227.2	2.4	7.8	0.36	1.19
6.0-7.0	226.7	2.8	10.7	0.43	1.62
7.0-8.0	226.2	3.2	13.9	0.49	2.11
8.0-9.0	225.5	3.7	17.5	0.56	2.67
9.0-10.0	224.8	4.1	21.6	0.62	3.28
10.0-11.0	224.1	4.5	26.1	0.68	3.96
11.0-12.0	223.2	4.9	31.0	0.74	4.71
12.0-13.0	222.3	5.3	36.2	0.80	5.51
13.0-14.0	221.3	5.7	41.9	0.86	6.37
14.0-15.0	220.2	6.0	48.0	0.92	7.29
15.0-16.0	219.0	6.4	54.4	0.98	8.26
16.0-17.0	217.8	6.8	61.2	1.03	9.29
17.0-18.0	216.5	7.1	68.3	1.08	10.38
18.0-19.0	215.1	7.5	75.8	1.14	11.51
19.0-20.0	213.7	7.8	83.6	1.19	12.70
20.0-21.0	212.1	8.1	91.7	1.24	13.94
21.0-22.0	210.5	8.5	100.2	1.29	15.22
22.0-23.0	208.8	8.8	109.0	1.33	16.56
23.0-24.0	207.1	9.1	118.0	1.38	17.93
24.0-25.0	205.3	9.3	127.4	1.42	19.35
25.0-26.0	203.3	9.6	137.0	1.46	20.81
26.0-27.0	201.4	9.9	146.8	1.50	22.30
27.0-28.0	199.4	10.1	156.9	1.53	23.84
28.0-29.0	197.3	10.3	167.2	1.57	25.41
29.0-30.0	195.1	10.5	177.8	1.60	27.01
30.0-31.0	192.9	10.7	188.5	1.63	28.64
31.0-32.0	190.6	10.9	199.4	1.66	30.30
32.0-33.0	188.3	11.1	210.5	1.69	31.98
33.0-34.0	185.8	11.2	221.8	1.71	33.69
34.0-35.0	183.3	11.4	233.2	1.73	35.42
35.0-36.0	180.8	11.5	244.7	1.75	37.17

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	178.2	11.6	256.3	1.77	38.94
37.0-38.0	175.5	11.7	268.0	1.78	40.72
38.0-39.0	172.8	11.8	279.8	1.79	42.51
39.0-40.0	170.0	11.9	291.7	1.80	44.31
40.0-41.0	167.2	11.9	303.6	1.81	46.12
41.0-42.0	164.2	11.9	315.5	1.81	47.93
42.0-43.0	161.3	11.9	327.5	1.82	49.75
43.0-44.0	158.3	11.9	339.4	1.82	51.56
44.0-45.0	155.2	11.9	351.3	1.81	53.38
45.0-46.0	152.1	11.9	363.2	1.81	55.18
46.0-47.0	148.9	11.8	375.1	1.80	56.98
47.0-48.0	145.6	11.8	386.8	1.79	58.77
48.0-49.0	142.3	11.7	398.5	1.78	60.55
49.0-50.0	139.0	11.6	410.1	1.76	62.31
50.0-51.0	135.6	11.5	421.6	1.74	64.05
51.0-52.0	132.2	11.3	432.9	1.72	65.77
52.0-53.0	128.7	11.2	444.1	1.70	67.47
53.0-54.0	125.1	11.0	455.2	1.68	69.15
54.0-55.0	121.6	10.9	466.0	1.65	70.80
55.0-56.0	117.9	10.7	476.7	1.62	72.42
56.0-57.0	114.2	10.4	487.1	1.59	74.01
57.0-58.0	110.5	10.2	497.3	1.55	75.56
58.0-59.0	106.8	10.0	507.3	1.52	77.07
59.0-60.0	103.0	9.7	517.1	1.48	78.55
60.0-61.0	99.1	9.5	526.5	1.44	79.99
61.0-62.0	95.3	9.2	535.7	1.40	81.39
62.0-63.0	91.4	8.9	544.6	1.35	82.74
63.0-64.0	87.4	8.6	553.2	1.30	84.04
64.0-65.0	83.5	8.3	561.4	1.26	85.29
65.0-66.0	79.5	7.9	569.4	1.20	86.50
66.0-67.0	75.4	7.6	576.9	1.15	87.65
67.0-68.0	71.4	7.2	584.2	1.10	88.75
68.0-69.0	67.4	6.9	591.0	1.04	89.79
69.0-70.0	63.3	6.5	597.5	0.99	90.78
70.0-71.0	59.3	6.1	603.7	0.93	91.71
71.0-72.0	55.3	5.7	609.4	0.87	92.59

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	51.2	5.4	614.8	0.81	93.40
73.0-74.0	47.2	5.0	619.7	0.75	94.15
74.0-75.0	43.3	4.6	624.3	0.69	94.85
75.0-76.0	39.3	4.2	628.5	0.63	95.48
76.0-77.0	35.5	3.8	632.3	0.57	96.06
77.0-78.0	31.7	3.4	635.7	0.52	96.57
78.0-79.0	28.1	3.0	638.7	0.46	97.03
79.0-80.0	24.5	2.6	641.3	0.40	97.43
80.0-81.0	21.1	2.3	643.6	0.35	97.78
81.0-82.0	17.9	1.9	645.6	0.29	98.07
82.0-83.0	14.9	1.6	647.2	0.25	98.32
83.0-84.0	12.0	1.3	648.5	0.20	98.52
84.0-85.0	9.4	1.0	649.5	0.16	98.67
85.0-86.0	7.1	0.8	650.3	0.12	98.79
86.0-87.0	5.1	0.6	650.8	0.08	98.88
87.0-88.0	3.3	0.4	651.2	0.06	98.93
88.0-89.0	2.0	0.2	651.4	0.03	98.97
89.0-90.0	1.1	0.1	651.5	0.02	98.98
90.0-91.0	0.7	0.1	651.6	0.01	98.99
91.0-92.0	0.5	0.1	651.7	0.01	99.00
92.0-93.0	0.5	0.1	651.7	0.01	99.01
93.0-94.0	0.5	0.1	651.8	0.01	99.02
94.0-95.0	0.5	0.1	651.8	0.01	99.03
95.0-96.0	0.5	0.1	651.9	0.01	99.04
96.0-97.0	0.6	0.1	652.0	0.01	99.05
97.0-98.0	0.6	0.1	652.0	0.01	99.06
98.0-99.0	0.6	0.1	652.1	0.01	99.07
99.0-100.0	0.6	0.1	652.1	0.01	99.08
100.0-101.0	0.6	0.1	652.2	0.01	99.09
101.0-102.0	0.6	0.1	652.3	0.01	99.10
102.0-103.0	0.6	0.1	652.3	0.01	99.10
103.0-104.0	0.6	0.1	652.4	0.01	99.11
104.0-105.0	0.6	0.1	652.5	0.01	99.13
105.0-106.0	0.7	0.1	652.5	0.01	99.14
106.0-107.0	0.7	0.1	652.6	0.01	99.15
107.0-108.0	0.7	0.1	652.7	0.01	99.16

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	0.7	0.1	652.8	0.01	99.17
109.0-110.0	0.7	0.1	652.8	0.01	99.18
110.0-111.0	0.8	0.1	652.9	0.01	99.19
111.0-112.0	0.8	0.1	653.0	0.01	99.20
112.0-113.0	0.8	0.1	653.1	0.01	99.22
113.0-114.0	0.8	0.1	653.2	0.01	99.23
114.0-115.0	0.9	0.1	653.2	0.01	99.24
115.0-116.0	0.9	0.1	653.3	0.01	99.26
116.0-117.0	0.9	0.1	653.4	0.01	99.27
117.0-118.0	0.9	0.1	653.5	0.01	99.28
118.0-119.0	1.0	0.1	653.6	0.01	99.30
119.0-120.0	1.0	0.1	653.7	0.01	99.31
120.0-121.0	1.0	0.1	653.8	0.01	99.33
121.0-122.0	1.0	0.1	653.9	0.01	99.34
122.0-123.0	1.1	0.1	654.0	0.01	99.35
123.0-124.0	1.1	0.1	654.1	0.01	99.37
124.0-125.0	1.1	0.1	654.2	0.02	99.38
125.0-126.0	1.1	0.1	654.3	0.02	99.40
126.0-127.0	1.2	0.1	654.4	0.02	99.42
127.0-128.0	1.2	0.1	654.5	0.02	99.43
128.0-129.0	1.2	0.1	654.6	0.02	99.45
129.0-130.0	1.2	0.1	654.7	0.02	99.46
130.0-131.0	1.3	0.1	654.8	0.02	99.48
131.0-132.0	1.3	0.1	654.9	0.02	99.49
132.0-133.0	1.3	0.1	655.0	0.02	99.51
133.0-134.0	1.3	0.1	655.1	0.02	99.53
134.0-135.0	1.3	0.1	655.2	0.02	99.54
135.0-136.0	1.4	0.1	655.3	0.02	99.56
136.0-137.0	1.4	0.1	655.4	0.02	99.57
137.0-138.0	1.4	0.1	655.5	0.02	99.59
138.0-139.0	1.4	0.1	655.6	0.02	99.61
139.0-140.0	1.5	0.1	655.7	0.02	99.62
140.0-141.0	1.5	0.1	655.8	0.02	99.64
141.0-142.0	1.5	0.1	655.9	0.02	99.65
142.0-143.0	1.5	0.1	656.0	0.02	99.67
143.0-144.0	1.5	0.1	656.1	0.02	99.68

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	1.5	0.1	656.2	0.01	99.70
145.0-146.0	1.6	0.1	656.3	0.01	99.71
146.0-147.0	1.6	0.1	656.4	0.01	99.73
147.0-148.0	1.6	0.1	656.5	0.01	99.74
148.0-149.0	1.6	0.1	656.6	0.01	99.76
149.0-150.0	1.7	0.1	656.7	0.01	99.77
150.0-151.0	1.7	0.1	656.8	0.01	99.78
151.0-152.0	1.7	0.1	656.9	0.01	99.80
152.0-153.0	1.7	0.1	657.0	0.01	99.81
153.0-154.0	1.7	0.1	657.1	0.01	99.82
154.0-155.0	1.7	0.1	657.1	0.01	99.84
155.0-156.0	1.7	0.1	657.2	0.01	99.85
156.0-157.0	1.7	0.1	657.3	0.01	99.86
157.0-158.0	1.8	0.1	657.4	0.01	99.87
158.0-159.0	1.8	0.1	657.4	0.01	99.88
159.0-160.0	1.8	0.1	657.5	0.01	99.89
160.0-161.0	1.8	0.1	657.6	0.01	99.90
161.0-162.0	1.8	0.1	657.6	0.01	99.91
162.0-163.0	1.8	0.1	657.7	0.01	99.92
163.0-164.0	1.9	0.1	657.8	0.01	99.93
164.0-165.0	1.9	0.1	657.8	0.01	99.94
165.0-166.0	1.9	0.1	657.9	0.01	99.95
166.0-167.0	1.9	0.0	657.9	0.01	99.95
167.0-168.0	1.9	0.0	658.0	0.01	99.96
168.0-169.0	1.9	0.0	658.0	0.01	99.97
169.0-170.0	1.9	0.0	658.0	0.01	99.97
170.0-171.0	1.9	0.0	658.1	0.01	99.98
171.0-172.0	1.9	0.0	658.1	0.00	99.98
172.0-173.0	1.9	0.0	658.1	0.00	99.99
173.0-174.0	1.9	0.0	658.2	0.00	99.99
174.0-175.0	2.0	0.0	658.2	0.00	99.99
175.0-176.0	2.0	0.0	658.2	0.00	100.00
176.0-177.0	2.0	0.0	658.2	0.00	100.00
177.0-178.0	2.0	0.0	658.2	0.00	100.00
178.0-179.0	2.0	0.0	658.2	0.00	100.00
179.0-180.0	2.0	0.0	658.2	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: