

Report No.: 20230628

Test Time: 2023/6/29 15:22

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Pixel Bar

Luminaire Description: Pixel Bar 1200mm Round Milky GREEN

Lamp Catalog: RGBW30

Luminous Width (mm): 40

Voltage: 219.3 V

Power: 8.08 W

Luminous Length (mm): 1200

Luminous Height (mm): 30

Current: 0.056 A

Power Factor: 0.654

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 168 lm

Downward Ratio: 78%

Horizontal Diffuse Angle(10%,50%): H360,H118.3

Vertical Diffuse Angle(10%,50%): V293.8,V184

Luminaire Efficacy Rating (LER): 21

Max. Intensity: 35.21 cd

Total Rated Lamp Lumens: 168.0 lm

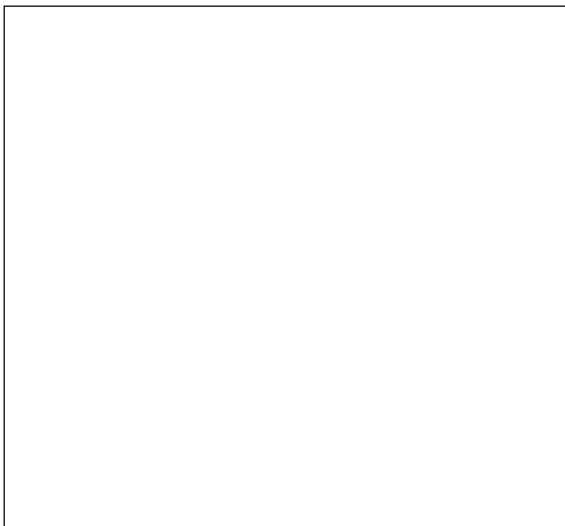
Efficiency: 100%

Upward Ratio: 22%

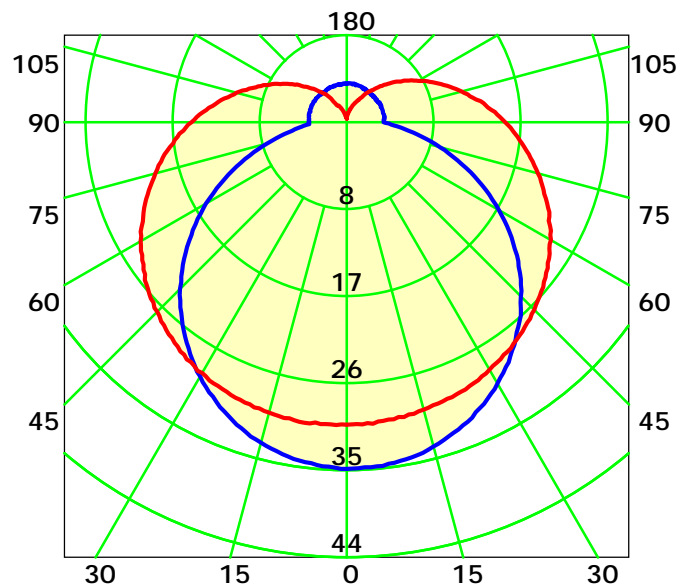
Central Intensity: 35.19 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 151.1° 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

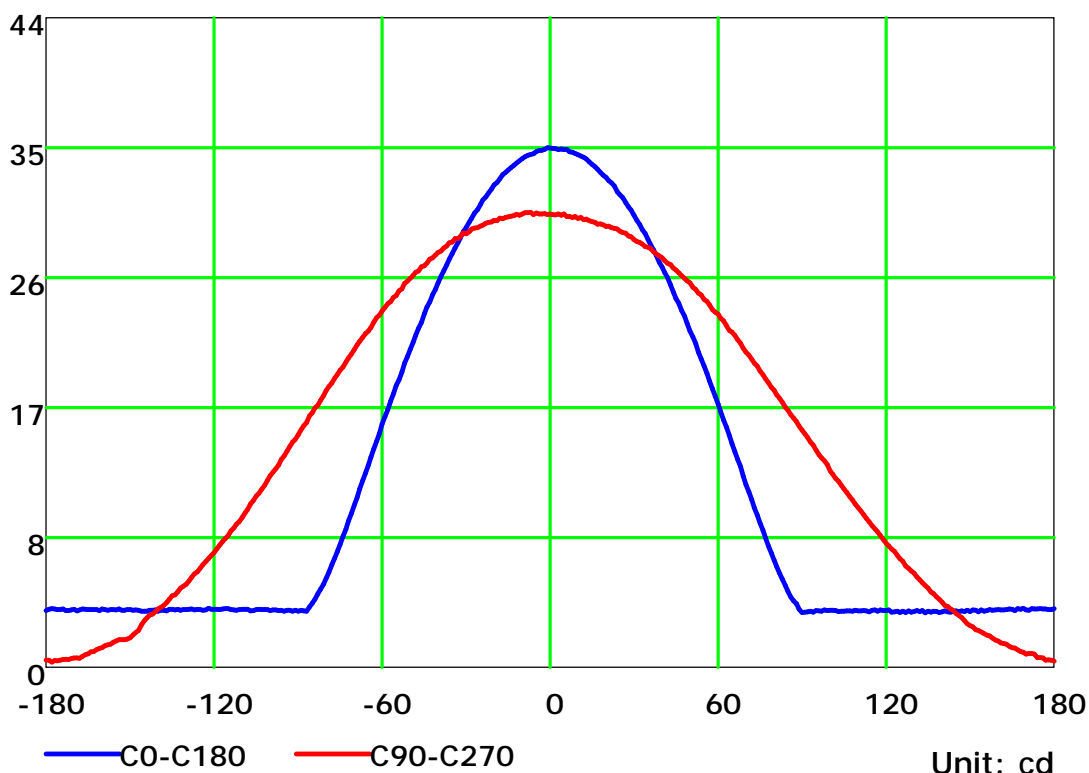
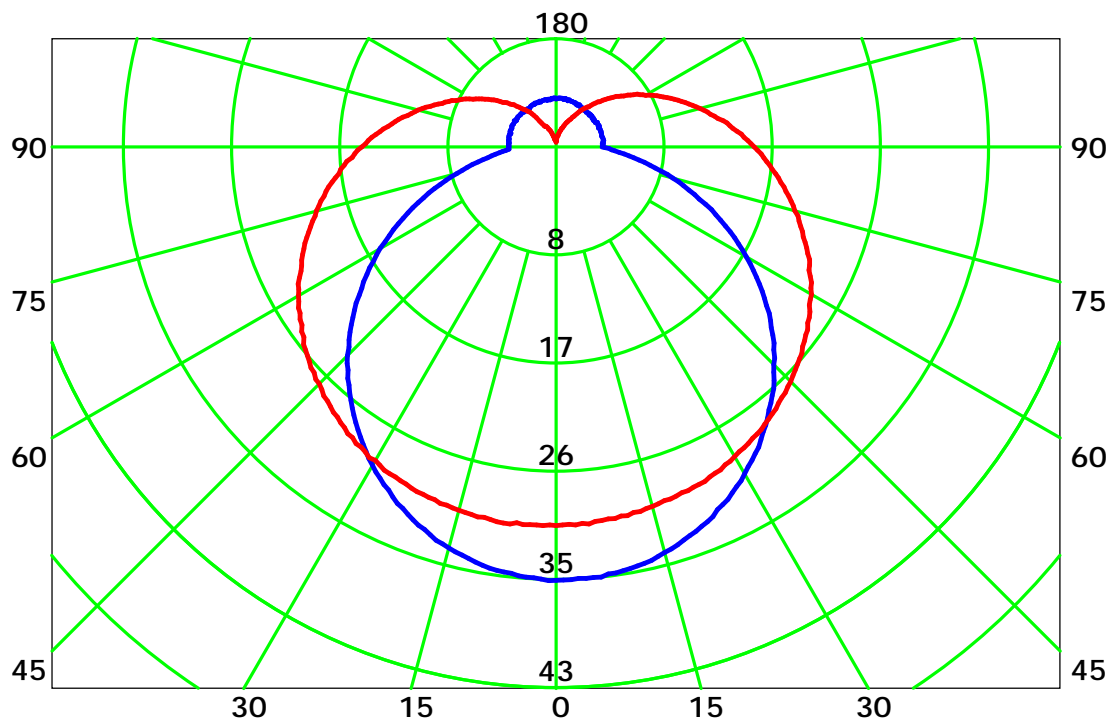
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

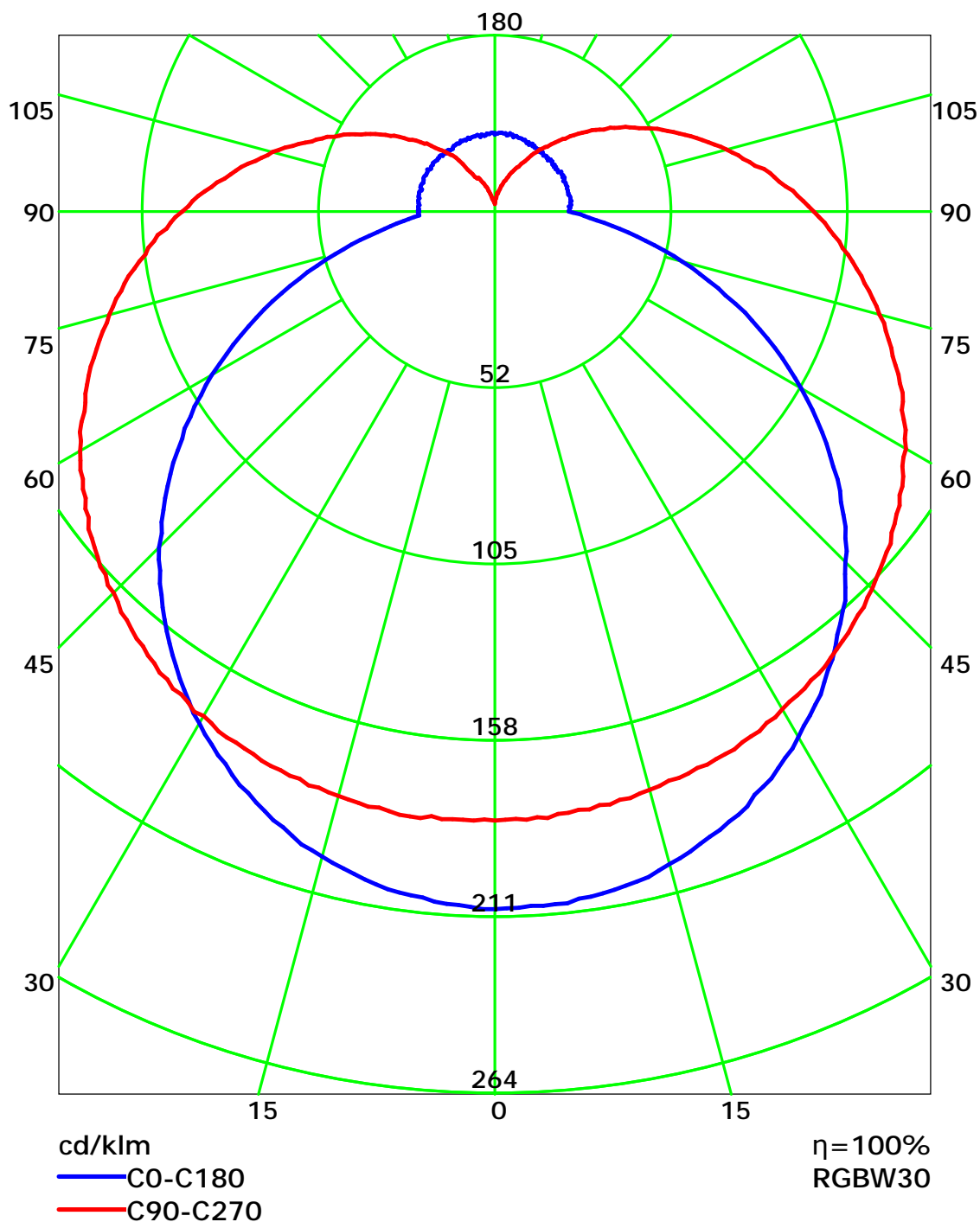
## Luminous Intensity Distribution Curve



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:

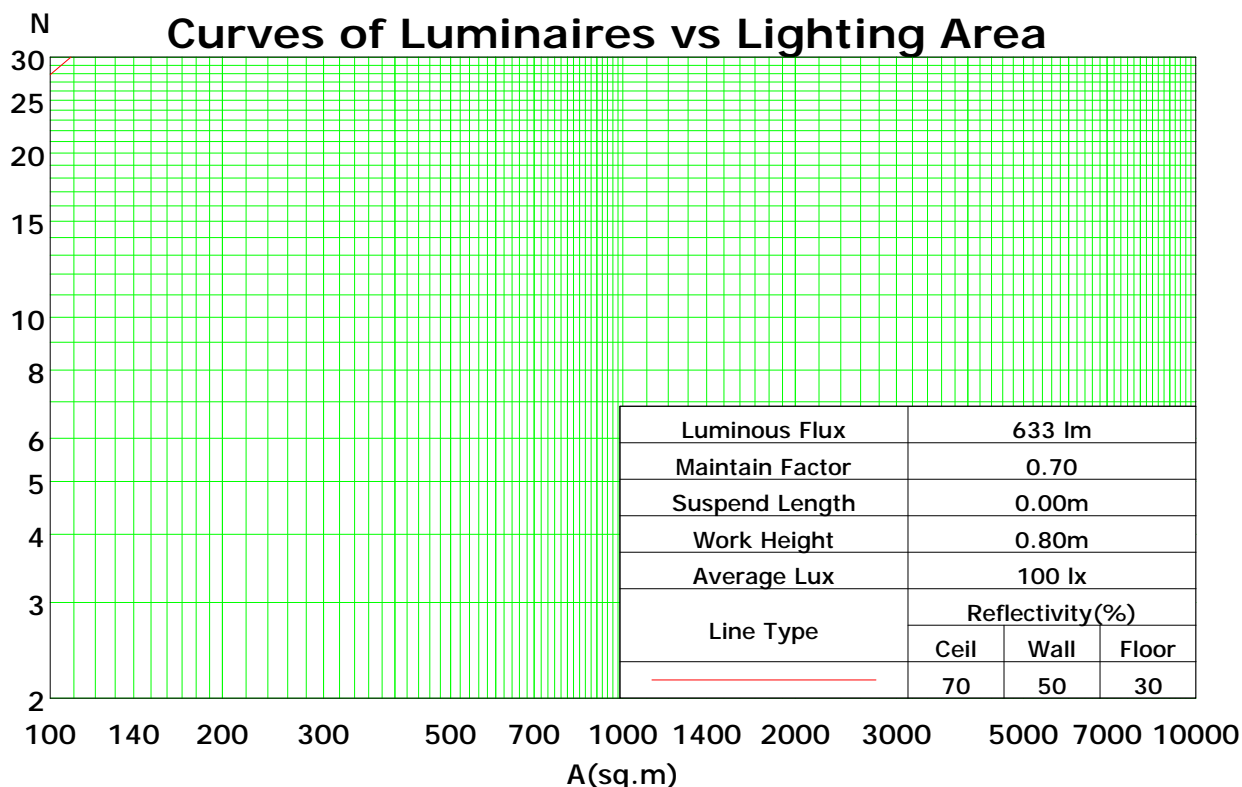
## Coefficients Of Utilization - Zonal Cavity Method

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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	100	94	89	84	95	90	85	81	81	78	74	74	71	68	67	64	62	58
2	90	80	73	66	85	77	69	63	69	64	59	63	58	54	57	53	50	46
3	81	70	61	53	77	66	58	51	60	53	48	54	49	44	49	45	41	37
4	74	61	52	44	70	58	50	43	53	46	40	48	42	37	43	38	34	31
5	68	54	45	37	64	52	43	36	47	40	34	43	36	31	39	33	29	26
6	62	48	39	32	59	46	38	31	42	35	29	38	32	27	35	29	25	23
7	58	44	34	28	54	42	33	27	38	31	26	35	29	24	32	26	22	20
8	53	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	18
9	50	36	28	22	47	35	27	21	32	25	20	29	23	19	27	22	18	16
10	47	33	25	20	44	32	24	19	29	23	18	27	21	17	25	20	16	14

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.43

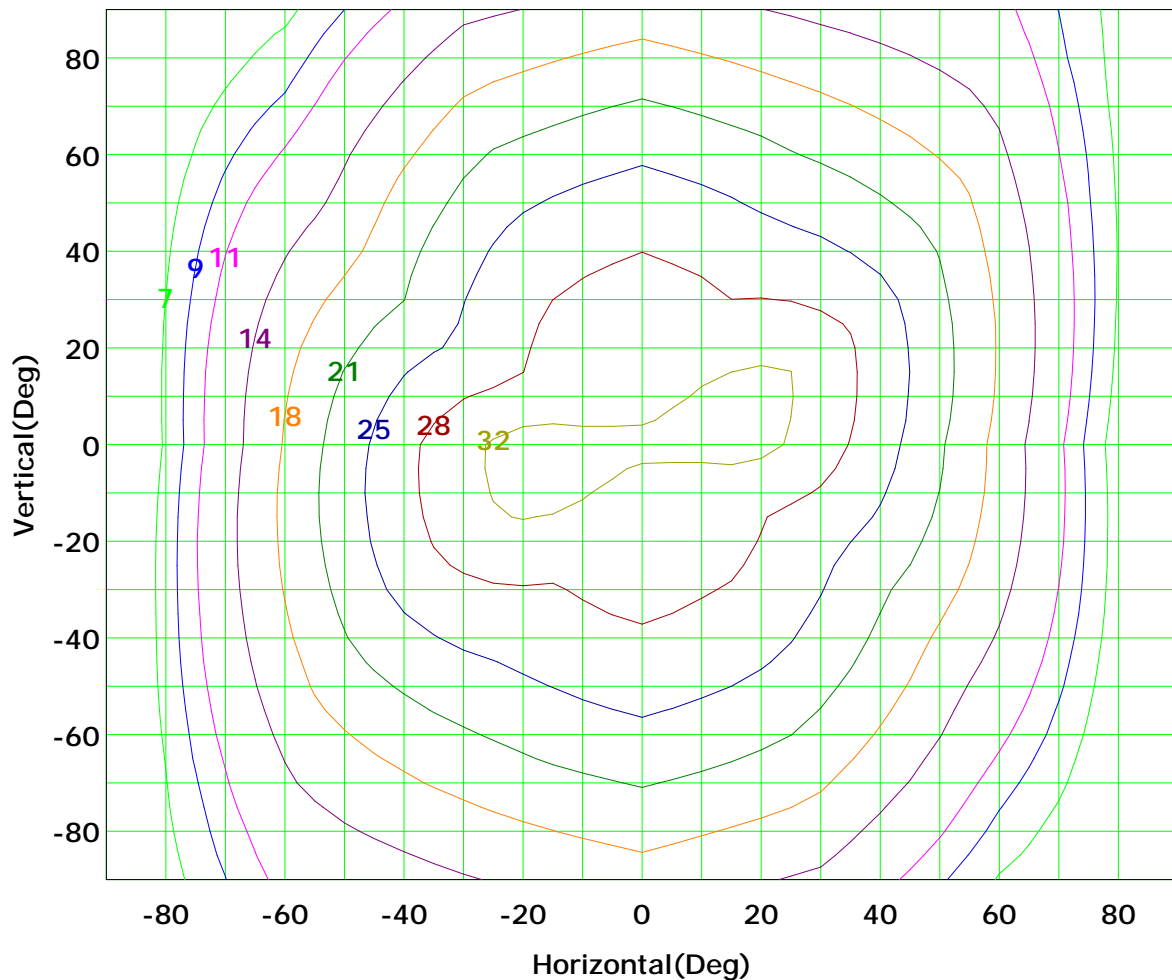
Spacing Criteria (Diagonal): 1.42



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)



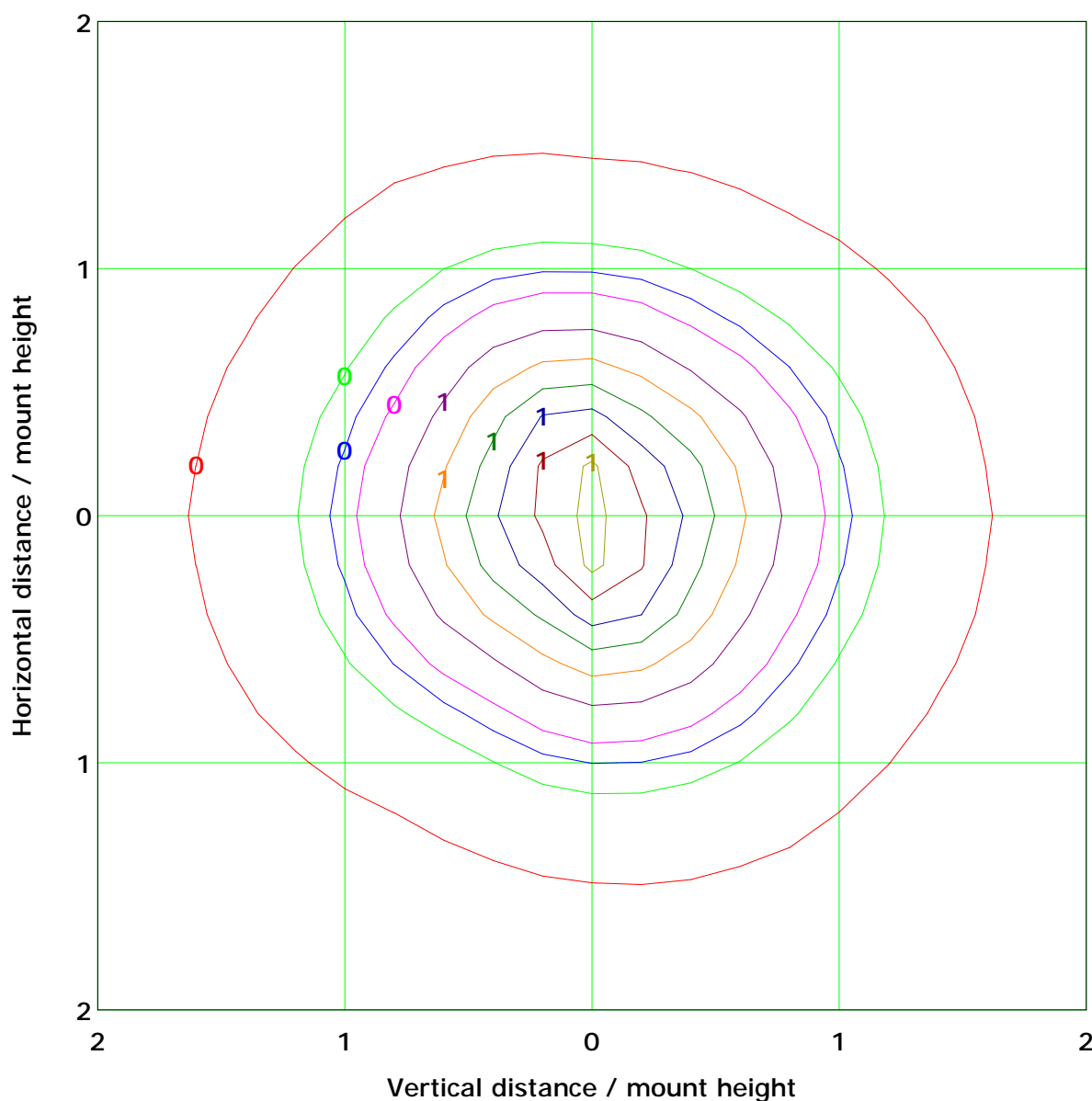
I<sub>max</sub> (100%): 35 cd

( 10%):	4 cd	( 20%):	7 cd
( 25%):	9 cd	( 30%):	11 cd
( 40%):	14 cd	( 50%):	18 cd
( 60%):	21 cd	( 70%):	25 cd
( 80%):	28 cd	( 90%):	32 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%): 1.4 lx	
( 10%):	0.1 lx	( 20%):	0.3 lx
( 25%):	0.4 lx	( 30%):	0.4 lx
( 40%):	0.6 lx	( 50%):	0.7 lx
( 60%):	0.8 lx	( 70%):	1.0 lx
( 80%):	1.1 lx	( 90%):	1.3 lx

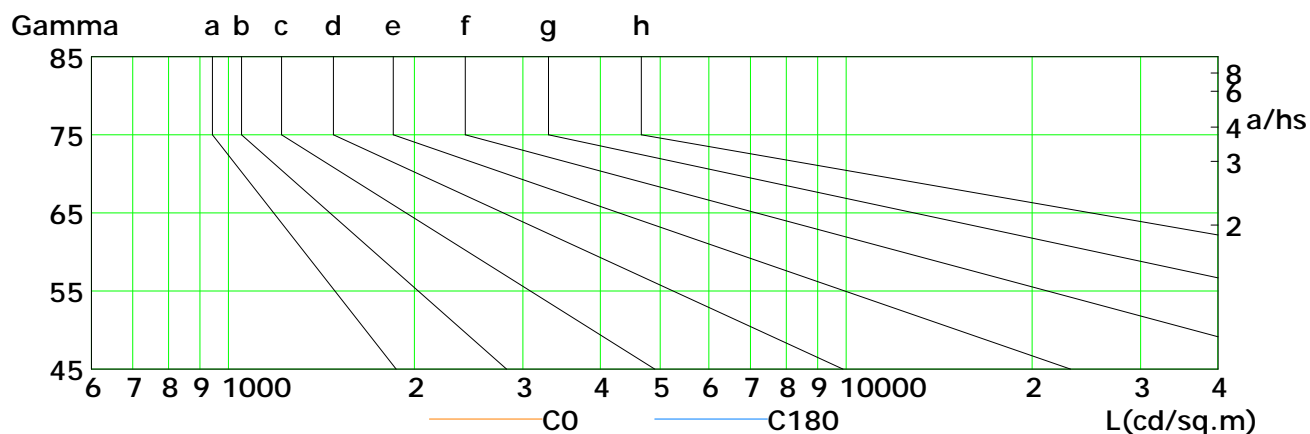
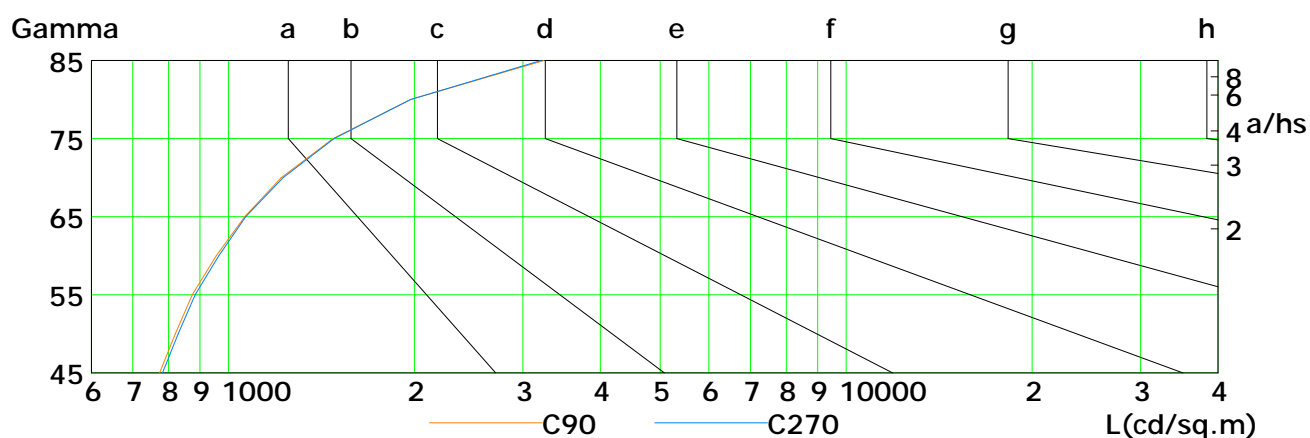
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

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

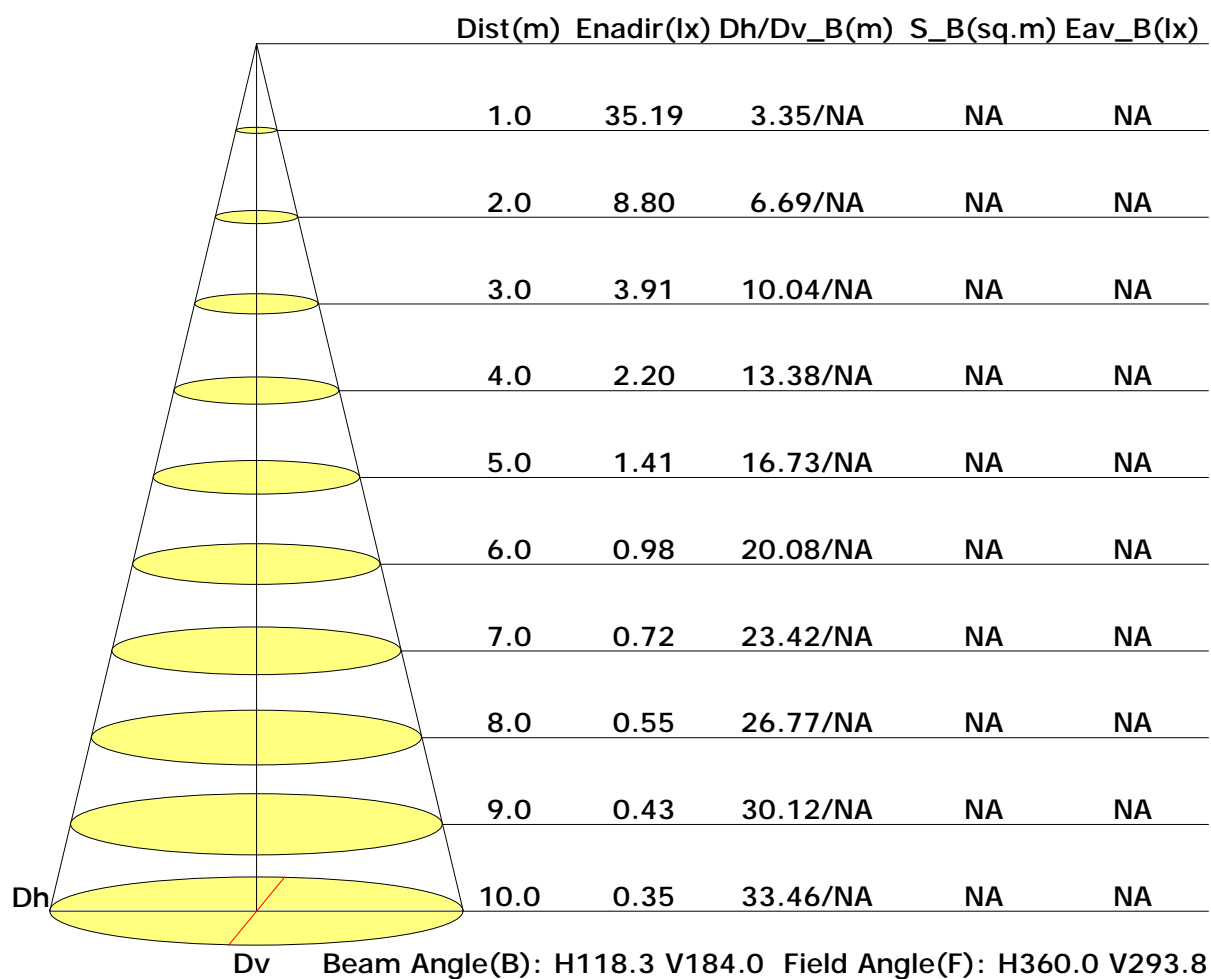


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	421	390	358	323	287	246	207	166	129
C90	774	821	874	956	1063	1217	1478	1973	3242
C180	404	369	335	299	259	219	177	138	109
C270	782	830	884	965	1067	1227	1483	1972	3209

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

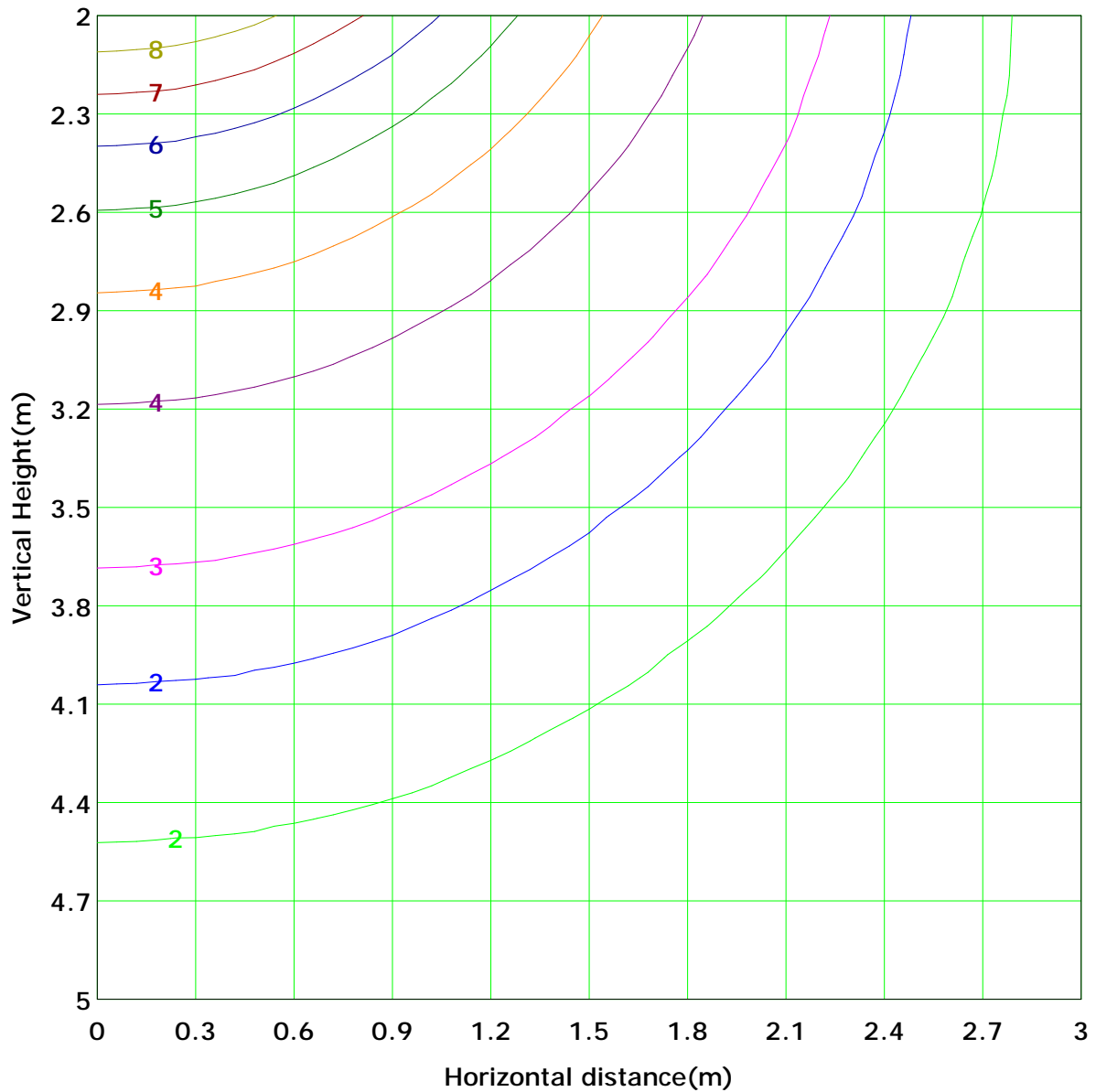
Gamma Plane (°):0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 8.8 lx
( 10%): 0.9 lx	( 20%): 1.8 lx	
( 25%): 2.2 lx	( 30%): 2.6 lx	
( 40%): 3.5 lx	( 50%): 4.4 lx	
( 60%): 5.3 lx	( 70%): 6.2 lx	
( 80%): 7.0 lx	( 90%): 7.9 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

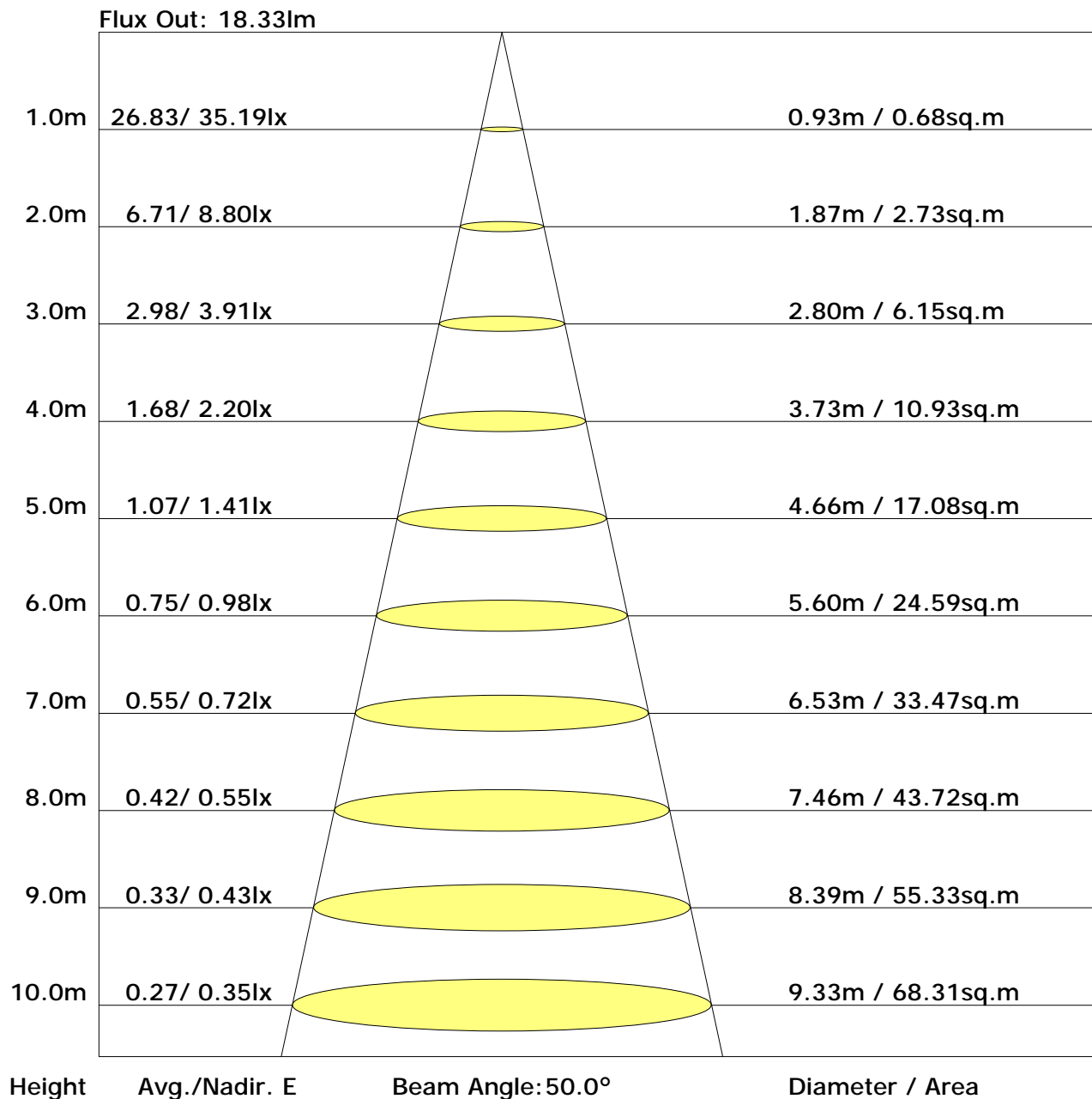
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.3	131
	-80	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	-70	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	-60	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.3	131
	-50	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.3	131
	-40	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	-30	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	-20	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	-10	0.0	0.1	0.2	0.3	0.5	0.7	0.9	0.9	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.3	131
	0	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.3	131
	10	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	20	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	30	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	40	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.3	131
	50	0.0	0.1	0.1	0.3	0.4	0.5	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.3	131
	60	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.3	131
	70	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.6	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.3	131
	80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.3	131
	90	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.3	131
	Flux(T)	0.2	1.2	2.8	5.0	7.4	9.8	11.8	13.2	14.0	14.0	13.2	11.8	9.8	7.4	5.1	2.9	1.3	0.3		131	
	Flux(E)	0.2	1.2	2.8	5.0	7.4	9.8	11.8	13.2	14.0	14.0	13.2	11.8	9.8	7.4	5.1	2.9	1.3	0.3		131	

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



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	14.2	15.5	14.9	16.2	17.0	14.0	15.3	14.6	16.0	16.8
3H	16.5	17.7	17.1	18.4	19.2	16.5	17.7	17.1	18.4	19.2
4H	17.4	18.6	18.1	19.3	20.1	17.7	18.8	18.3	19.5	20.4
6H	18.3	19.4	19.0	20.1	21.0	18.8	19.9	19.5	20.6	21.5
8H	18.7	19.7	19.4	20.5	21.3	19.4	20.4	20.1	21.1	22.0
12H	19.1	20.1	19.8	20.8	21.7	19.9	20.9	20.6	21.6	22.5
X=4H Y=2H	14.9	16.0	15.6	16.7	17.6	14.7	15.8	15.4	16.5	17.4
3H	17.3	18.3	18.0	19.0	19.9	17.4	18.4	18.1	19.2	20.0
4H	18.4	19.4	19.2	20.1	21.0	18.8	19.7	19.5	20.4	21.3
6H	19.5	20.3	20.2	21.1	22.0	20.1	20.9	20.8	21.7	22.6
8H	20.0	20.8	20.7	21.5	22.4	20.7	21.5	21.5	22.3	23.2
12H	20.5	21.2	21.2	22.0	22.9	21.4	22.1	22.1	22.9	23.8
X=8H Y=4H	18.9	19.7	19.7	20.5	21.4	19.2	20.0	19.9	20.7	21.7
6H	20.2	20.8	21.0	21.6	22.6	20.7	21.4	21.5	22.2	23.1
8H	20.8	21.4	21.6	22.2	23.1	21.6	22.2	22.3	23.0	23.9
12H	21.4	22.0	22.2	22.8	23.8	22.4	22.9	23.2	23.7	24.7
X=12H Y=4H	19.0	19.7	19.8	20.5	21.4	19.3	20.0	20.0	20.8	21.7
6H	20.4	21.0	21.2	21.8	22.7	20.9	21.5	21.7	22.3	23.3
8H	21.1	21.6	21.9	22.4	23.4	21.8	22.3	22.6	23.1	24.1

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 = 1.50									
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	0.47	0.55	0.62	0.67	0.74	0.79	0.83	0.88	0.91	
	0.30		0.39	0.47	0.54	0.59	0.67	0.73	0.77	0.82	0.87	
	0.20		0.33	0.41	0.48	0.53	0.61	0.67	0.71	0.78	0.82	
0.50	0.50	0.20	0.44	0.50	0.57	0.61	0.68	0.72	0.75	0.80	0.83	
	0.30		0.37	0.43	0.50	0.55	0.62	0.67	0.70	0.76	0.79	
	0.20		0.32	0.39	0.45	0.49	0.57	0.62	0.66	0.72	0.76	
0.30	0.50	0.20	0.40	0.46	0.52	0.56	0.62	0.65	0.68	0.72	0.75	
	0.30		0.34	0.40	0.46	0.51	0.57	0.61	0.64	0.69	0.72	
	0.20		0.30	0.36	0.42	0.46	0.53	0.57	0.61	0.66	0.70	
0.00	0.00	0.00	0.26	0.31	0.36	0.40	0.45	0.49	0.53	0.57	0.60	
Rating:8W 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 = 1.50									
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	1.02	0.88	0.77	0.68	0.56	0.48	0.42	0.34	0.28	
	0.30		0.85	0.76	0.67	0.60	0.51	0.44	0.39	0.32	0.27	
	0.20		0.73	0.66	0.59	0.54	0.46	0.41	0.36	0.30	0.26	
0.50	0.50	0.20	0.94	0.81	0.70	0.63	0.52	0.47	0.39	0.31	0.26	
	0.30		0.79	0.71	0.62	0.56	0.47	0.41	0.36	0.30	0.25	
	0.20		0.69	0.62	0.56	0.51	0.44	0.38	0.34	0.28	0.24	
0.30	0.50	0.20	0.87	0.75	0.65	0.58	0.48	0.41	0.36	0.29	0.24	
	0.30		0.74	0.66	0.58	0.52	0.44	0.38	0.34	0.28	0.23	
	0.20		0.65	0.59	0.52	0.48	0.41	0.36	0.32	0.26	0.23	
0.00	0.00	0.00	0.52	0.47	0.42	0.38	0.33	0.29	0.25	0.21	0.18	
Rating:8W 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 = 1.50								
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	0.38	0.39	0.40	0.41	0.42	0.42	0.42	0.43	0.43
	0.30		0.31	0.32	0.34	0.35	0.36	0.37	0.38	0.39	0.40
	0.20		0.26	0.27	0.29	0.30	0.31	0.33	0.34	0.36	0.37
0.50	0.50	0.20	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41
	0.30		0.30	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38
	0.20		0.26	0.27	0.28	0.29	0.31	0.32	0.33	0.34	0.35
0.30	0.50	0.20	0.35	0.37	0.37	0.38	0.39	0.39	0.39	0.39	0.40
	0.30		0.30	0.31	0.32	0.33	0.34	0.35	0.35	0.36	0.37
	0.20		0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.34	0.34
0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Rating:8W 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	32.2	0.0	0.0	0.02	0.02
1.0-2.0	32.2	0.1	0.1	0.05	0.07
2.0-3.0	32.2	0.2	0.3	0.09	0.16
3.0-4.0	32.1	0.2	0.5	0.13	0.29
4.0-5.0	32.1	0.3	0.8	0.16	0.46
5.0-6.0	32.1	0.3	1.1	0.20	0.66
6.0-7.0	32.0	0.4	1.5	0.24	0.89
7.0-8.0	32.0	0.5	2.0	0.27	1.17
8.0-9.0	31.9	0.5	2.5	0.31	1.48
9.0-10.0	31.9	0.6	3.1	0.34	1.82
10.0-11.0	31.8	0.6	3.7	0.38	2.20
11.0-12.0	31.7	0.7	4.4	0.41	2.61
12.0-13.0	31.7	0.8	5.1	0.45	3.06
13.0-14.0	31.6	0.8	5.9	0.48	3.54
14.0-15.0	31.5	0.9	6.8	0.51	4.05
15.0-16.0	31.4	0.9	7.7	0.55	4.60
16.0-17.0	31.2	1.0	8.7	0.58	5.18
17.0-18.0	31.1	1.0	9.7	0.61	5.79
18.0-19.0	31.0	1.1	10.8	0.64	6.43
19.0-20.0	30.9	1.1	11.9	0.67	7.11
20.0-21.0	30.8	1.2	13.1	0.70	7.81
21.0-22.0	30.6	1.2	14.4	0.73	8.54
22.0-23.0	30.5	1.3	15.6	0.76	9.30
23.0-24.0	30.3	1.3	17.0	0.79	10.09
24.0-25.0	30.1	1.4	18.3	0.82	10.91
25.0-26.0	30.0	1.4	19.7	0.84	11.75
26.0-27.0	29.8	1.5	21.2	0.87	12.62
27.0-28.0	29.6	1.5	22.7	0.89	13.51
28.0-29.0	29.4	1.5	24.2	0.92	14.43
29.0-30.0	29.2	1.6	25.8	0.94	15.36
30.0-31.0	29.0	1.6	27.4	0.96	16.33
31.0-32.0	28.8	1.7	29.1	0.98	17.31
32.0-33.0	28.6	1.7	30.8	1.00	18.31
33.0-34.0	28.4	1.7	32.5	1.02	19.33
34.0-35.0	28.1	1.7	34.2	1.04	20.37
35.0-36.0	27.9	1.8	36.0	1.06	21.43

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	27.7	1.8	37.8	1.07	22.50
37.0-38.0	27.4	1.8	39.6	1.09	23.59
38.0-39.0	27.2	1.9	41.5	1.10	24.70
39.0-40.0	26.9	1.9	43.4	1.12	25.81
40.0-41.0	26.7	1.9	45.3	1.13	26.94
41.0-42.0	26.4	1.9	47.2	1.14	28.09
42.0-43.0	26.1	1.9	49.1	1.15	29.24
43.0-44.0	25.8	1.9	51.1	1.16	30.40
44.0-45.0	25.5	2.0	53.0	1.17	31.57
45.0-46.0	25.3	2.0	55.0	1.18	32.74
46.0-47.0	25.0	2.0	57.0	1.18	33.92
47.0-48.0	24.7	2.0	59.0	1.19	35.11
48.0-49.0	24.4	2.0	61.0	1.19	36.30
49.0-50.0	24.1	2.0	63.0	1.19	37.50
50.0-51.0	23.7	2.0	65.0	1.20	38.69
51.0-52.0	23.4	2.0	67.0	1.20	39.89
52.0-53.0	23.1	2.0	69.0	1.20	41.08
53.0-54.0	22.8	2.0	71.0	1.19	42.28
54.0-55.0	22.5	2.0	73.0	1.19	43.47
55.0-56.0	22.1	2.0	75.0	1.19	44.66
56.0-57.0	21.8	2.0	77.0	1.19	45.85
57.0-58.0	21.4	2.0	79.0	1.18	47.03
58.0-59.0	21.1	2.0	81.0	1.17	48.20
59.0-60.0	20.8	2.0	83.0	1.17	49.37
60.0-61.0	20.4	2.0	84.9	1.16	50.53
61.0-62.0	20.1	1.9	86.8	1.15	51.68
62.0-63.0	19.7	1.9	88.8	1.14	52.83
63.0-64.0	19.4	1.9	90.7	1.13	53.96
64.0-65.0	19.0	1.9	92.5	1.12	55.08
65.0-66.0	18.7	1.9	94.4	1.11	56.19
66.0-67.0	18.3	1.8	96.2	1.10	57.28
67.0-68.0	18.0	1.8	98.1	1.08	58.36
68.0-69.0	17.6	1.8	99.9	1.07	59.43
69.0-70.0	17.2	1.8	101.6	1.05	60.49
70.0-71.0	16.9	1.7	103.4	1.04	61.52
71.0-72.0	16.5	1.7	105.1	1.02	62.55

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	16.2	1.7	106.8	1.01	63.55
73.0-74.0	15.8	1.7	108.4	0.99	64.54
74.0-75.0	15.5	1.6	110.1	0.97	65.52
75.0-76.0	15.1	1.6	111.7	0.96	66.47
76.0-77.0	14.8	1.6	113.3	0.94	67.41
77.0-78.0	14.4	1.5	114.8	0.92	68.33
78.0-79.0	14.1	1.5	116.3	0.90	69.23
79.0-80.0	13.8	1.5	117.8	0.88	70.11
80.0-81.0	13.4	1.5	119.3	0.87	70.98
81.0-82.0	13.1	1.4	120.7	0.85	71.82
82.0-83.0	12.8	1.4	122.1	0.83	72.65
83.0-84.0	12.5	1.4	123.4	0.81	73.47
84.0-85.0	12.2	1.3	124.8	0.79	74.26
85.0-86.0	11.9	1.3	126.1	0.78	75.04
86.0-87.0	11.6	1.3	127.4	0.76	75.79
87.0-88.0	11.4	1.2	128.6	0.74	76.54
88.0-89.0	11.1	1.2	129.8	0.73	77.26
89.0-90.0	10.9	1.2	131.0	0.71	77.97
90.0-91.0	10.7	1.2	132.2	0.70	78.67
91.0-92.0	10.5	1.1	133.3	0.68	79.35
92.0-93.0	10.3	1.1	134.5	0.67	80.02
93.0-94.0	10.1	1.1	135.6	0.66	80.68
94.0-95.0	9.9	1.1	136.6	0.64	81.32
95.0-96.0	9.7	1.1	137.7	0.63	81.95
96.0-97.0	9.5	1.0	138.7	0.61	82.56
97.0-98.0	9.3	1.0	139.7	0.60	83.16
98.0-99.0	9.1	1.0	140.7	0.59	83.75
99.0-100.0	8.9	1.0	141.7	0.57	84.32
100.0-101.0	8.7	0.9	142.6	0.56	84.88
101.0-102.0	8.6	0.9	143.5	0.55	85.43
102.0-103.0	8.4	0.9	144.4	0.53	85.96
103.0-104.0	8.2	0.9	145.3	0.52	86.49
104.0-105.0	8.0	0.9	146.2	0.51	86.99
105.0-106.0	7.9	0.8	147.0	0.50	87.49
106.0-107.0	7.7	0.8	147.8	0.48	87.97
107.0-108.0	7.5	0.8	148.6	0.47	88.44

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	7.4	0.8	149.4	0.46	88.90
109.0-110.0	7.2	0.7	150.1	0.44	89.34
110.0-111.0	7.1	0.7	150.8	0.43	89.78
111.0-112.0	6.9	0.7	151.6	0.42	90.20
112.0-113.0	6.8	0.7	152.2	0.41	90.61
113.0-114.0	6.6	0.7	152.9	0.40	91.00
114.0-115.0	6.5	0.6	153.6	0.39	91.39
115.0-116.0	6.4	0.6	154.2	0.38	91.76
116.0-117.0	6.2	0.6	154.8	0.36	92.13
117.0-118.0	6.1	0.6	155.4	0.35	92.48
118.0-119.0	5.9	0.6	156.0	0.34	92.82
119.0-120.0	5.8	0.6	156.5	0.33	93.15
120.0-121.0	5.7	0.5	157.1	0.32	93.47
121.0-122.0	5.6	0.5	157.6	0.31	93.78
122.0-123.0	5.4	0.5	158.1	0.30	94.08
123.0-124.0	5.3	0.5	158.6	0.29	94.37
124.0-125.0	5.1	0.5	159.0	0.28	94.64
125.0-126.0	5.0	0.5	159.5	0.27	94.91
126.0-127.0	4.9	0.4	159.9	0.26	95.17
127.0-128.0	4.8	0.4	160.3	0.25	95.42
128.0-129.0	4.7	0.4	160.7	0.24	95.65
129.0-130.0	4.5	0.4	161.1	0.23	95.88
130.0-131.0	4.4	0.4	161.5	0.22	96.10
131.0-132.0	4.3	0.4	161.8	0.21	96.31
132.0-133.0	4.2	0.3	162.2	0.20	96.52
133.0-134.0	4.1	0.3	162.5	0.20	96.71
134.0-135.0	4.0	0.3	162.8	0.19	96.90
135.0-136.0	3.9	0.3	163.1	0.18	97.08
136.0-137.0	3.9	0.3	163.4	0.17	97.26
137.0-138.0	3.8	0.3	163.7	0.17	97.42
138.0-139.0	3.7	0.3	164.0	0.16	97.58
139.0-140.0	3.6	0.3	164.2	0.15	97.73
140.0-141.0	3.5	0.2	164.5	0.14	97.88
141.0-142.0	3.4	0.2	164.7	0.14	98.02
142.0-143.0	3.3	0.2	164.9	0.13	98.15
143.0-144.0	3.2	0.2	165.1	0.12	98.27

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	3.1	0.2	165.3	0.12	98.39
145.0-146.0	3.0	0.2	165.5	0.11	98.50
146.0-147.0	2.9	0.2	165.7	0.11	98.61
147.0-148.0	2.9	0.2	165.9	0.10	98.71
148.0-149.0	2.8	0.2	166.0	0.09	98.80
149.0-150.0	2.7	0.2	166.2	0.09	98.89
150.0-151.0	2.7	0.1	166.3	0.09	98.98
151.0-152.0	2.6	0.1	166.4	0.08	99.06
152.0-153.0	2.5	0.1	166.6	0.08	99.13
153.0-154.0	2.5	0.1	166.7	0.07	99.21
154.0-155.0	2.5	0.1	166.8	0.07	99.28
155.0-156.0	2.4	0.1	166.9	0.06	99.34
156.0-157.0	2.3	0.1	167.0	0.06	99.40
157.0-158.0	2.3	0.1	167.1	0.06	99.46
158.0-159.0	2.3	0.1	167.2	0.05	99.51
159.0-160.0	2.2	0.1	167.3	0.05	99.56
160.0-161.0	2.2	0.1	167.4	0.05	99.61
161.0-162.0	2.1	0.1	167.4	0.04	99.66
162.0-163.0	2.1	0.1	167.5	0.04	99.70
163.0-164.0	2.0	0.1	167.6	0.04	99.73
164.0-165.0	2.0	0.1	167.6	0.04	99.77
165.0-166.0	2.0	0.1	167.7	0.03	99.80
166.0-167.0	1.9	0.0	167.7	0.03	99.83
167.0-168.0	1.9	0.0	167.8	0.03	99.86
168.0-169.0	1.8	0.0	167.8	0.02	99.88
169.0-170.0	1.8	0.0	167.9	0.02	99.90
170.0-171.0	1.8	0.0	167.9	0.02	99.92
171.0-172.0	1.8	0.0	167.9	0.02	99.94
172.0-173.0	1.7	0.0	167.9	0.01	99.95
173.0-174.0	1.7	0.0	168.0	0.01	99.97
174.0-175.0	1.7	0.0	168.0	0.01	99.98
175.0-176.0	1.7	0.0	168.0	0.01	99.99
176.0-177.0	1.6	0.0	168.0	0.01	99.99
177.0-178.0	1.6	0.0	168.0	0.00	100.00
178.0-179.0	1.6	0.0	168.0	0.00	100.00
179.0-180.0	1.6	0.0	168.0	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: