

Report No.:

Test Time: 2017/7/12 16:01

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 5W Domenode98 Milky RGB(B)

Luminaire Description: 5W Domenode98 Milky RGB(B)

Luminous Length (mm): 98

Luminous Width (mm): 73

Luminous Height (mm): 65

Voltage: 24.0 V

Current: 0.078 A

Power: 1.86 W

Power Factor: 1.000

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 10.6 lm

Downward Ratio: 89%

Horizontal Diffuse Angle(50%): H143.7

Vertical Diffuse Angle(50%): V145.5

Luminaire Efficacy Rating (LER): 6

Max. Intensity: 2.43 cd

Total Rated Lamp Lumens: 10.6 lm

Efficiency: 100%

Upward Ratio: 11%

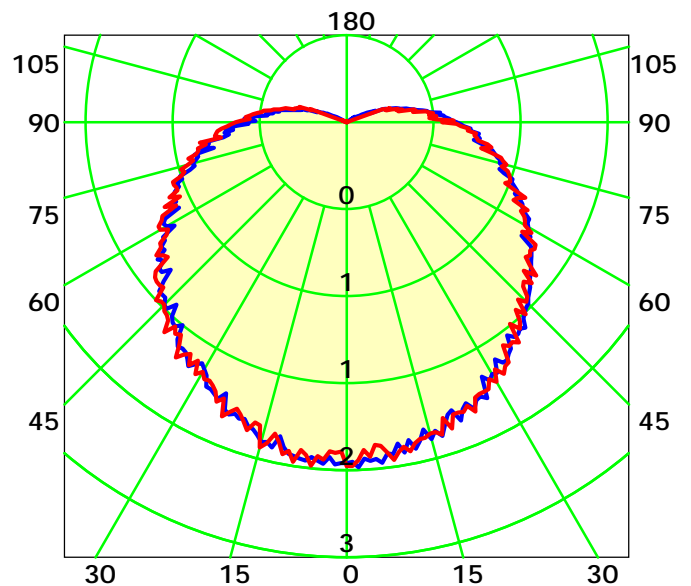
Central Intensity: 2.39 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 144.6° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Roy

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

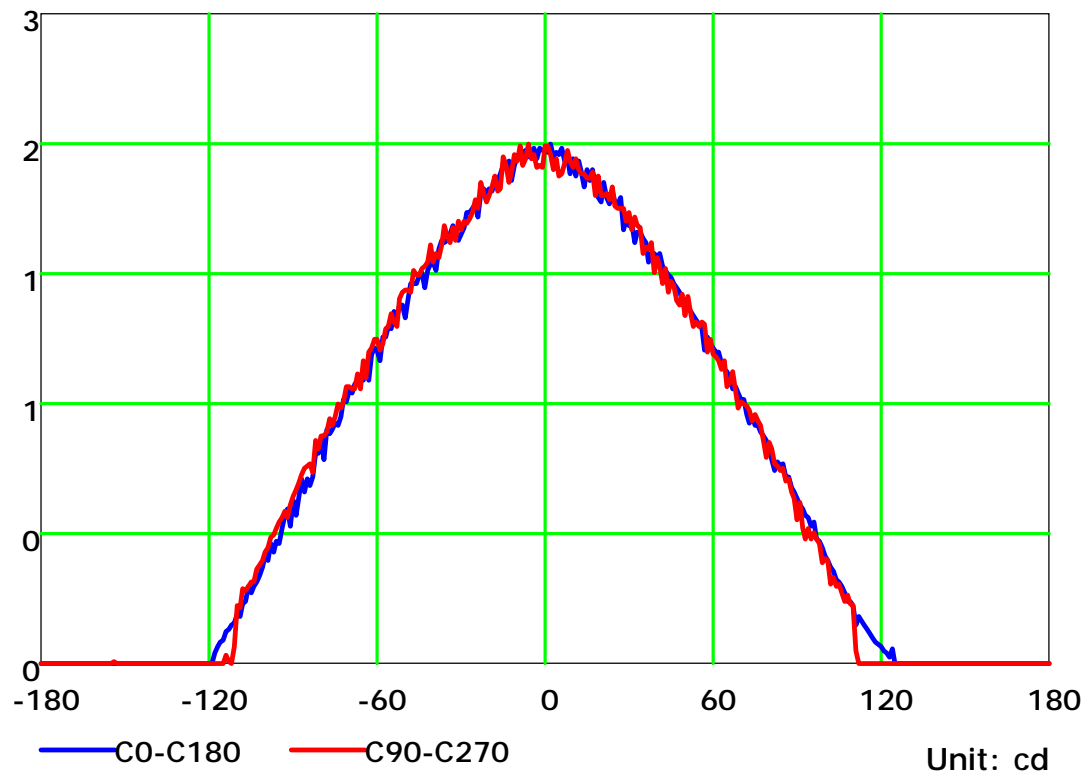
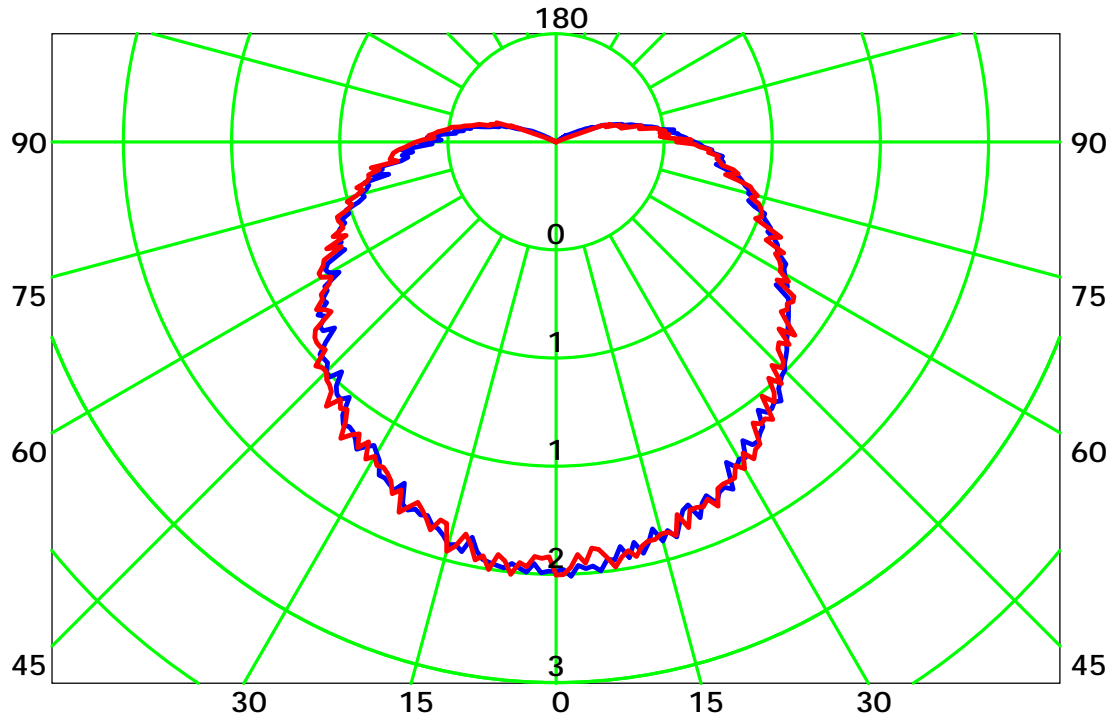
Distance: 9.028 m

Humidity: 60%

Inspector:



## Luminous Intensity Distribution Curve

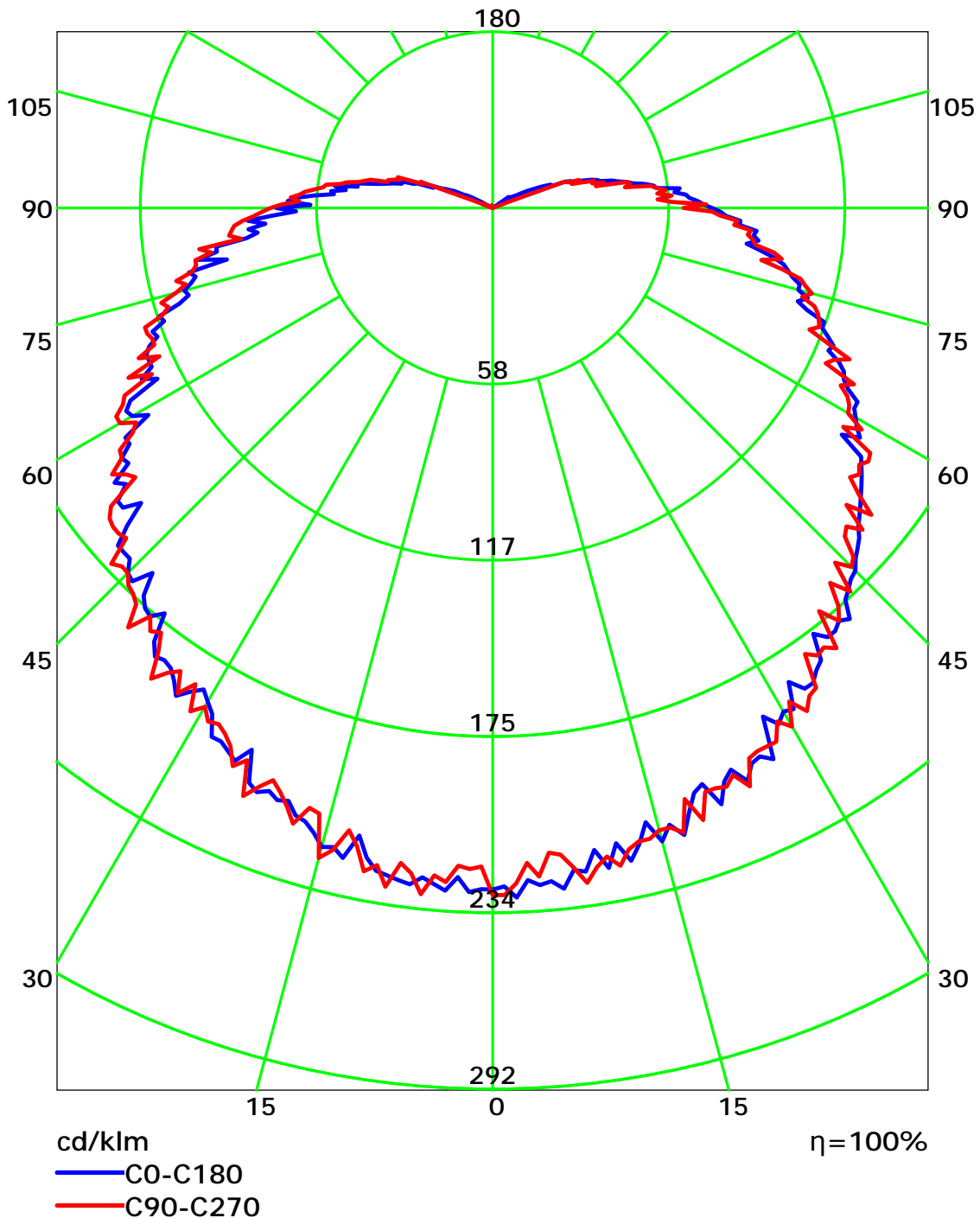


C Plane (°):0.0-360.0: 30.0  
Test Lab: acolyteled  
Test Type: TYPE C  
Temperature: 25°C  
Operator: Roy

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: acolyteled  
Test Type: TYPE C  
Temperature: 25°C  
Operator: Roy

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

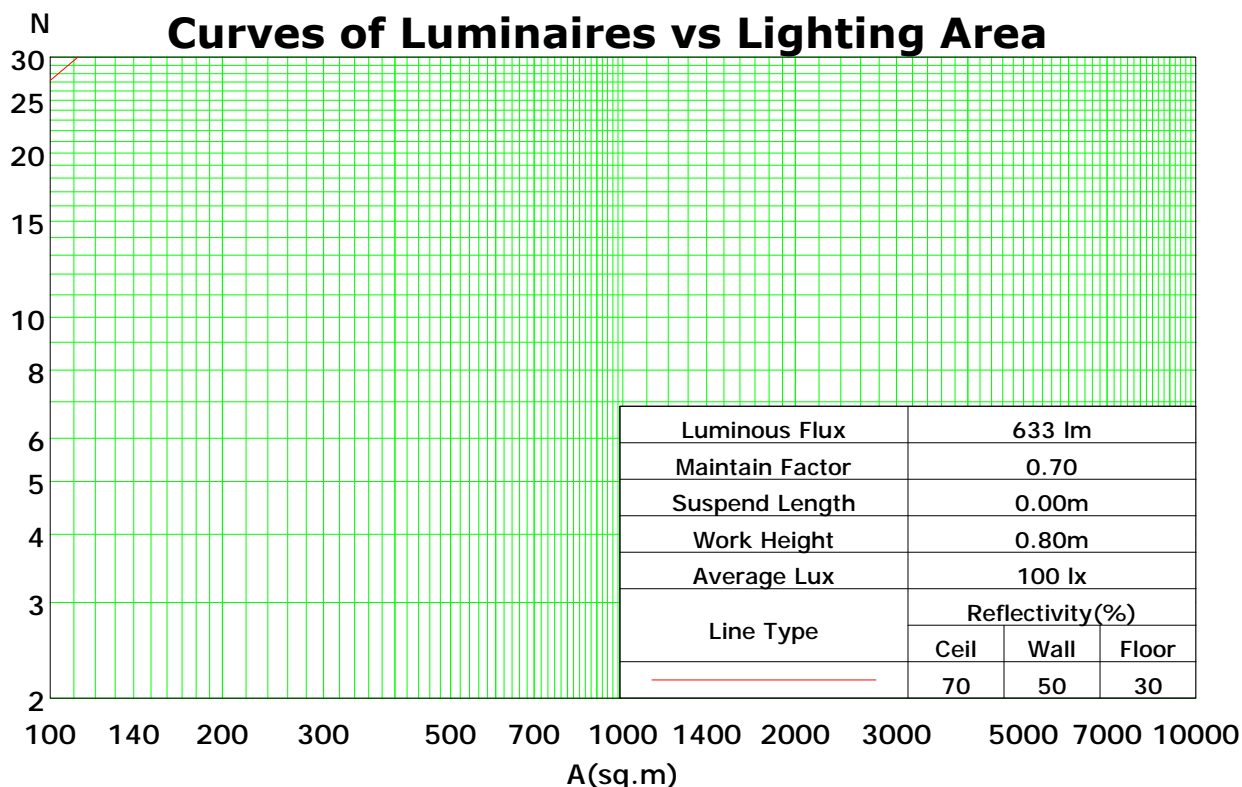
## Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	102	96	90	85	98	92	87	82	86	82	78	80	77	73	75	72	69	66
2	91	81	73	66	88	79	71	64	73	67	61	68	63	58	63	59	55	52
3	83	70	61	53	79	68	59	52	63	56	50	59	53	47	55	50	45	42
4	75	62	52	44	72	60	50	43	55	48	42	52	45	40	48	43	38	35
5	69	55	45	37	66	53	44	37	49	41	35	46	39	34	43	37	32	30
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	26
7	59	44	35	28	56	43	34	28	40	32	27	38	31	26	35	29	25	23
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	32	27	22	20
9	51	37	28	22	49	36	27	22	34	26	21	32	25	20	30	24	20	18
10	47	34	25	20	46	33	25	20	31	24	19	29	23	18	28	22	18	16

Spacing Criteria (0-180): 1.30

Spacing Criteria (90-270): 1.29

Spacing Criteria (Diagonal): 1.45



C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Roy

Gamma Plane (°):0.0-180.0:1.0

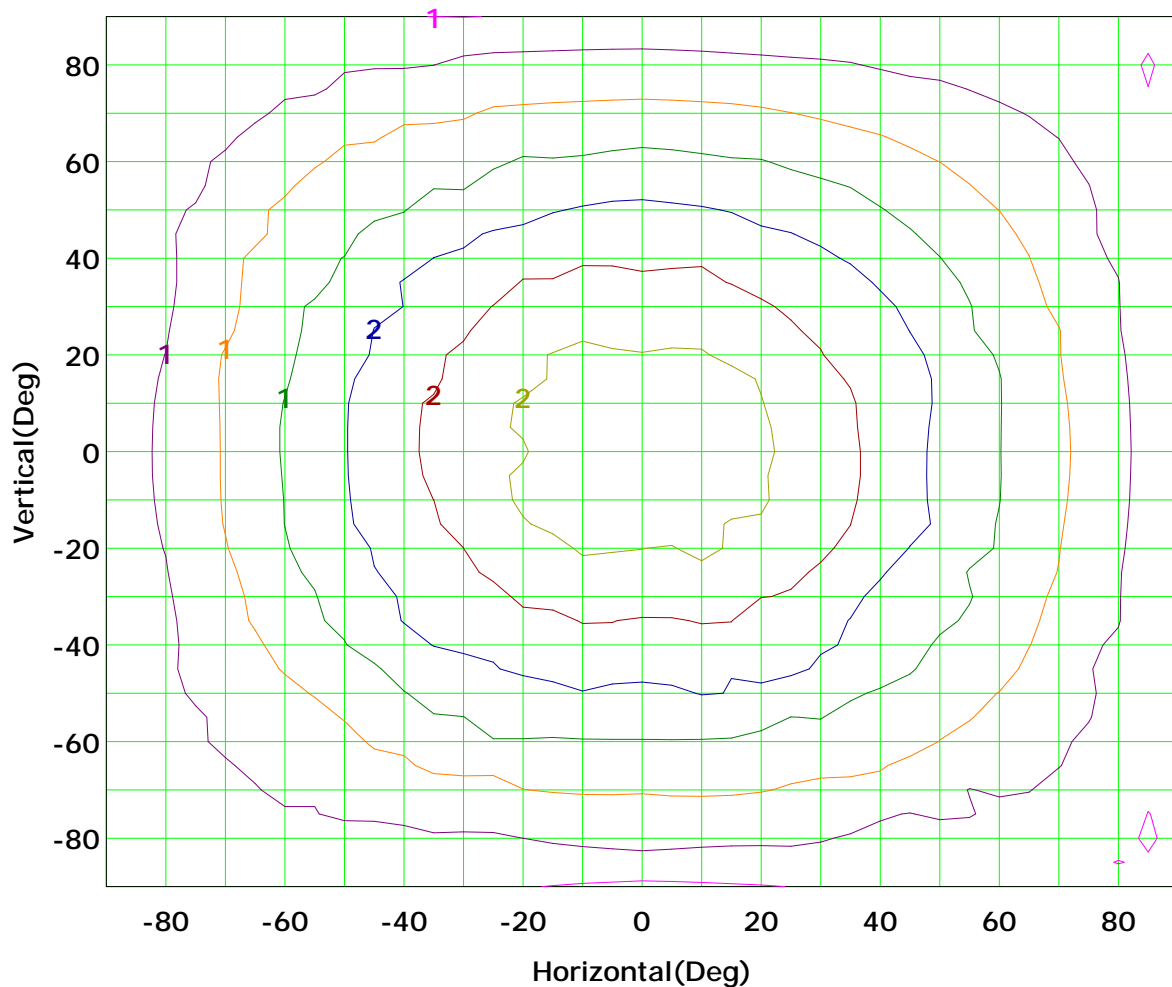
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 2 cd

( 10%):	0 cd	( 20%):	0 cd
( 25%):	1 cd	( 30%):	1 cd
( 40%):	1 cd	( 50%):	1 cd
( 60%):	1 cd	( 70%):	2 cd
( 80%):	2 cd	( 90%):	2 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Roy

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

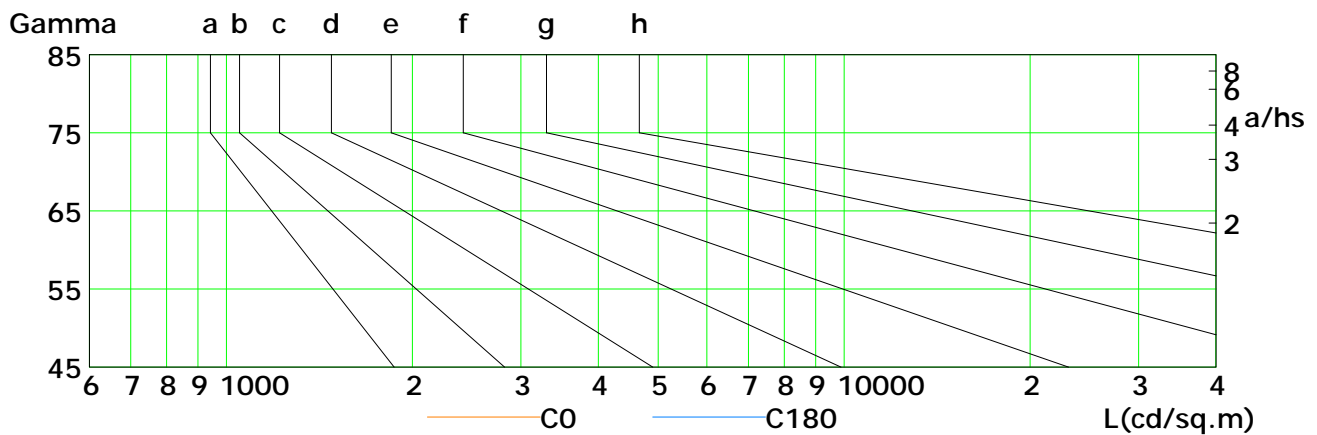
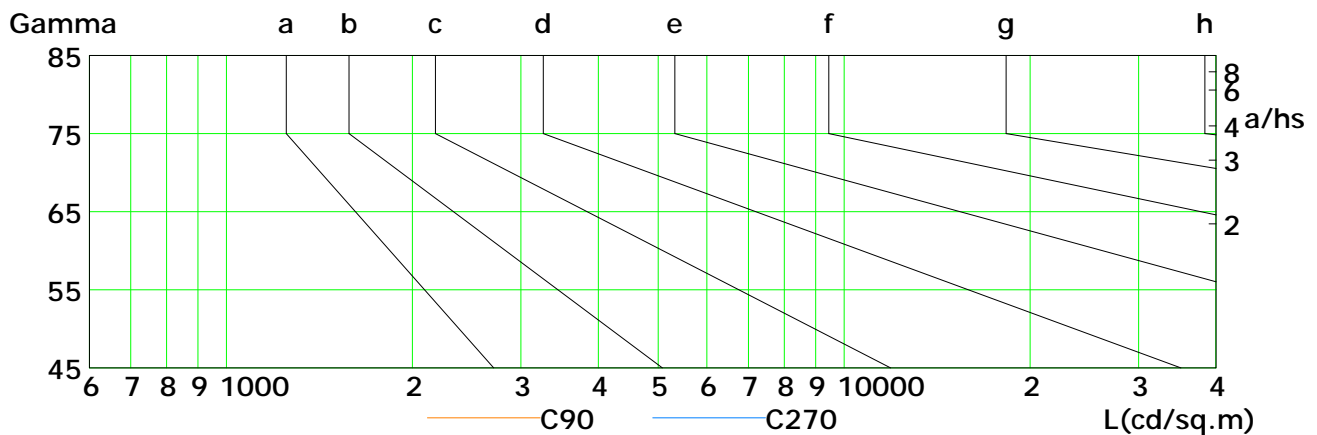
Inspector:

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	188	177	170	162	155	146	139	133	133
C90	212	197	196	187	176	177	180	174	170
C180	189	170	167	161	150	151	140	140	123
C270	215	211	204	196	193	187	179	179	172

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Roy

Gamma Plane (°):0.0-180.0:1.0

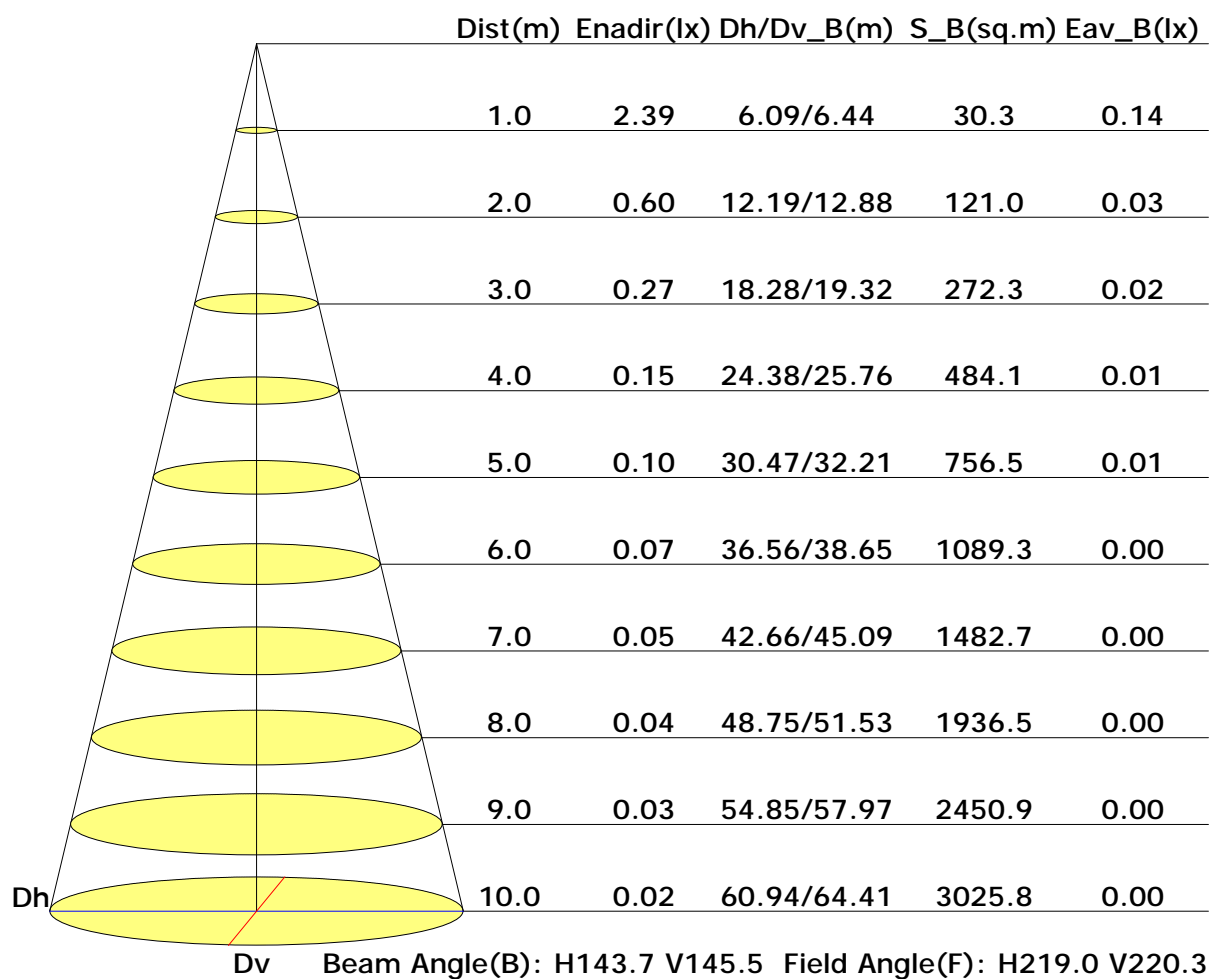
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

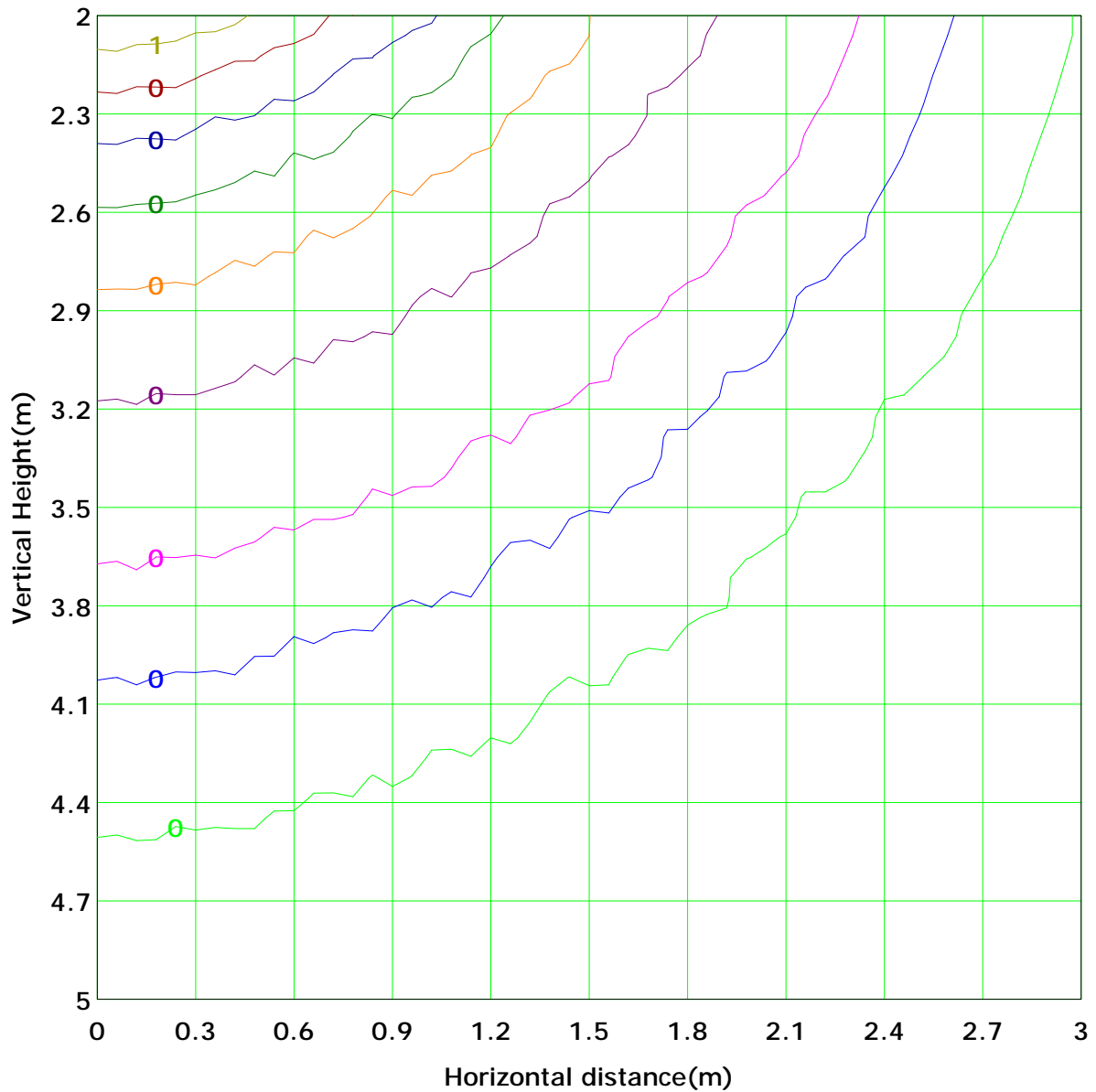
## Illuminance at a Distance







## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 0.6 lx
( 10%): 0.1 lx	( 20%): 0.1 lx	( 30%): 0.2 lx
( 25%): 0.2 lx	( 40%): 0.2 lx	( 50%): 0.3 lx
( 60%): 0.4 lx	( 70%): 0.4 lx	( 80%): 0.5 lx
( 90%): 0.5 lx		

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

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



## Area Flux Table

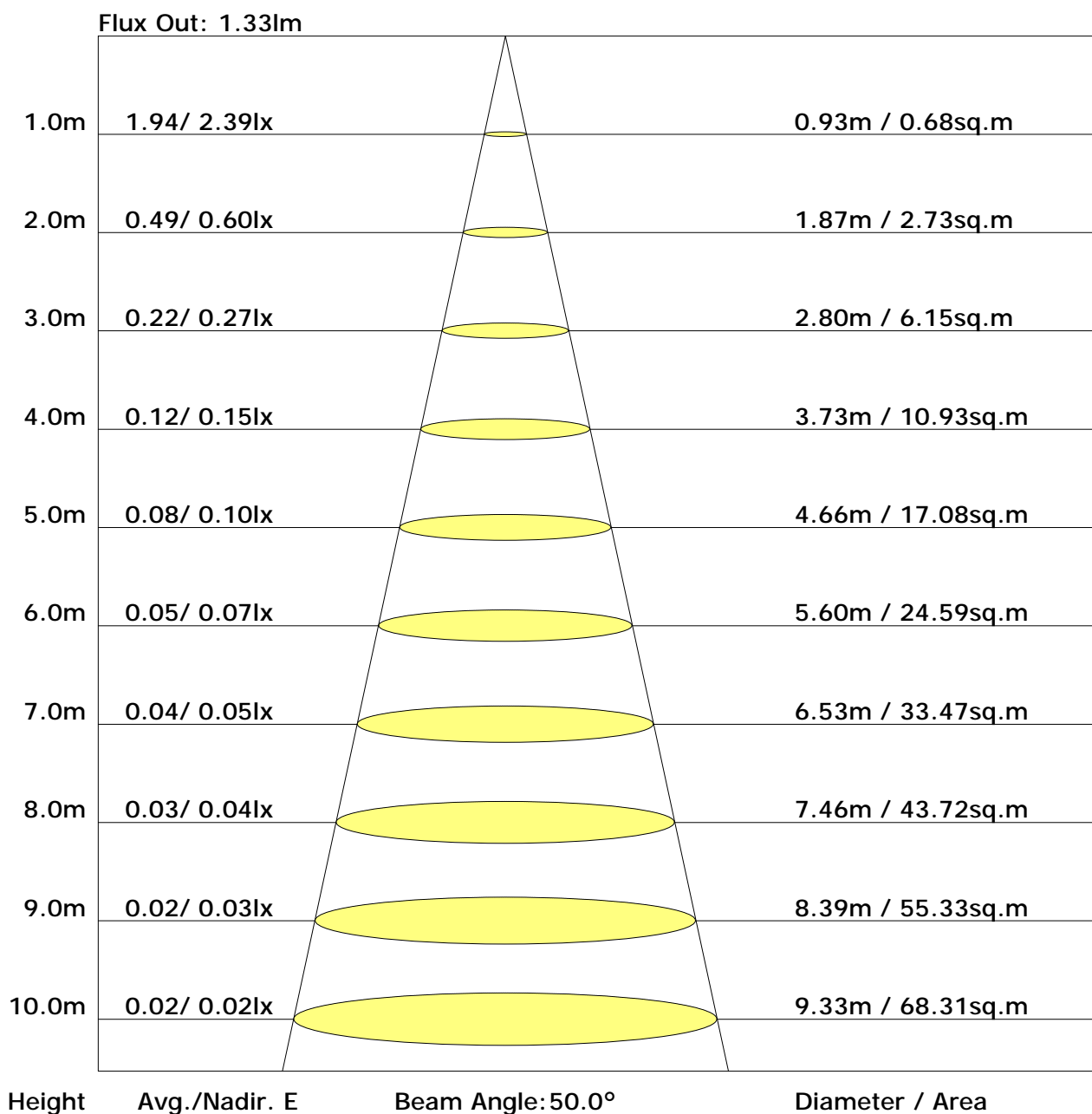
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Flux(T)Flux(E)	
		0.1	0.1	0.3	0.4	0.5	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.5	0.4	0.3	0.1		
-90	-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	9	9
-80	-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	9	9
-70	-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	9	9
-60	-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	9	9
-50	-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	9	9
-40	-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	9	9
-30	-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	9	9
-20	-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	9	9
-10	-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	9	9
0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	9
10	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	9	9
20	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	9	9
30	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	9	9
40	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	9	9
50	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	9	9
60	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	9	9
70	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	9	9
80	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	9	9
90	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	9	9

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

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

## The Average Illuminance Effective Figure



## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	20.7	22.2	21.2	22.7	23.3	20.3	21.8	20.8	22.4	22.9
3H	23.0	24.4	23.5	24.9	25.6	22.5	23.9	23.0	24.5	25.1
4H	24.1	25.5	24.7	26.0	26.6	23.6	24.9	24.1	25.5	26.1
6H	25.2	26.4	25.7	27.0	27.6	24.6	25.9	25.2	26.4	27.1
8H	25.6	26.8	26.2	27.4	28.1	25.0	26.3	25.6	26.8	27.5
12H	26.1	27.3	26.7	27.9	28.5	25.5	26.7	26.1	27.2	27.9
X=4H Y=2H	21.3	22.7	21.9	23.2	23.8	21.0	22.4	21.6	22.9	23.5
3H	23.8	25.0	24.4	25.6	26.2	23.5	24.6	24.0	25.2	25.9
4H	25.1	26.2	25.7	26.8	27.5	24.7	25.8	25.3	26.4	27.0
6H	26.3	27.3	26.9	27.9	28.6	25.9	26.8	26.5	27.4	28.1
8H	26.9	27.8	27.5	28.4	29.1	26.4	27.3	27.0	27.9	28.6
12H	27.5	28.3	28.1	29.0	29.7	26.9	27.8	27.6	28.4	29.1
X=8H Y=4H	25.5	26.4	26.1	27.0	27.7	25.1	26.1	25.7	26.7	27.4
6H	26.9	27.7	27.5	28.4	29.1	26.5	27.3	27.1	27.9	28.6
8H	27.6	28.3	28.2	29.0	29.7	27.1	27.9	27.8	28.5	29.2
12H	28.3	29.0	29.0	29.6	30.4	27.8	28.5	28.5	29.1	29.9
X=12H Y=4H	25.6	26.4	26.2	27.1	27.8	25.2	26.1	25.9	26.7	27.4
6H	27.0	27.8	27.7	28.4	29.2	26.6	27.4	27.3	28.0	28.8
8H	27.8	28.4	28.4	29.1	29.9	27.4	28.0	28.0	28.7	29.5

Calculate in accordance with CIE 190:2010

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

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	0.49	0.57	0.64	0.69	0.76	0.82	0.85	0.91	0.94
	0.30		0.41	0.48	0.56	0.61	0.69	0.75	0.79	0.85	0.89
	0.20		0.35	0.42	0.49	0.54	0.63	0.69	0.73	0.80	0.85
0.50	0.50	0.20	0.46	0.53	0.60	0.65	0.71	0.76	0.80	0.84	0.88
	0.30		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.80	0.84
	0.20		0.34	0.40	0.47	0.52	0.60	0.65	0.70	0.76	0.80
0.30	0.50	0.20	0.44	0.50	0.56	0.61	0.67	0.71	0.74	0.79	0.82
	0.30		0.37	0.44	0.50	0.55	0.62	0.66	0.70	0.75	0.79
	0.20		0.33	0.39	0.45	0.50	0.57	0.62	0.66	0.72	0.76
0.00	0.00	0.00	0.29	0.35	0.41	0.45	0.52	0.56	0.60	0.65	0.68
<p>Rating:2W 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 = 1.50								
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	1.06	0.92	0.80	0.72	0.59	0.51	0.45	0.36	0.30
	0.30		0.88	0.79	0.70	0.63	0.54	0.47	0.41	0.34	0.29
	0.20		0.76	0.69	0.62	0.57	0.49	0.43	0.39	0.32	0.27
0.50	0.50	0.20	1.00	0.87	0.76	0.68	0.56	0.51	0.42	0.34	0.29
	0.30		0.85	0.76	0.67	0.61	0.51	0.44	0.39	0.32	0.27
	0.20		0.73	0.67	0.60	0.55	0.47	0.41	0.37	0.31	0.26
0.30	0.50	0.20	0.95	0.82	0.71	0.64	0.53	0.45	0.40	0.32	0.27
	0.30		0.81	0.72	0.64	0.58	0.49	0.42	0.38	0.31	0.26
	0.20		0.71	0.65	0.58	0.53	0.45	0.40	0.36	0.29	0.25
0.00	0.00	0.00	0.60	0.55	0.48	0.44	0.38	0.33	0.30	0.25	0.21
<p>Rating: 2W 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(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	0.28	0.29	0.30	0.31	0.32	0.32	0.32	0.33	0.33
	0.30		0.20	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.30
	0.20		0.15	0.16	0.18	0.19	0.21	0.22	0.23	0.25	0.26
0.50	0.50	0.20	0.27	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32
	0.30		0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.28
	0.20		0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25
0.30	0.50	0.20	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.30	0.30
	0.30		0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.27
	0.20		0.15	0.16	0.17	0.18	0.20	0.21	0.22	0.24	0.25
0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
<p>Rating:2W 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>											