

Report No.:

Test Time: 2017/7/12 14:41

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 5W Domenode98 Milky RGB(R)

Luminaire Description: 5W Domenode98 Milky RGB(R)

Luminous Length (mm): 98

Luminous Width (mm): 73

Luminous Height (mm): 65

Voltage: 24.0 V

Current: 0.078 A

Power: 1.87 W

Power Factor: 1.000

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 20.9 lm

Downward Ratio: 88%

Horizontal Diffuse Angle(50%): H144.6

Vertical Diffuse Angle(50%): V146

Luminaire Efficacy Rating (LER): 11

Max. Intensity: 4.77 cd

Total Rated Lamp Lumens: 20.9 lm

Efficiency: 100%

Upward Ratio: 12%

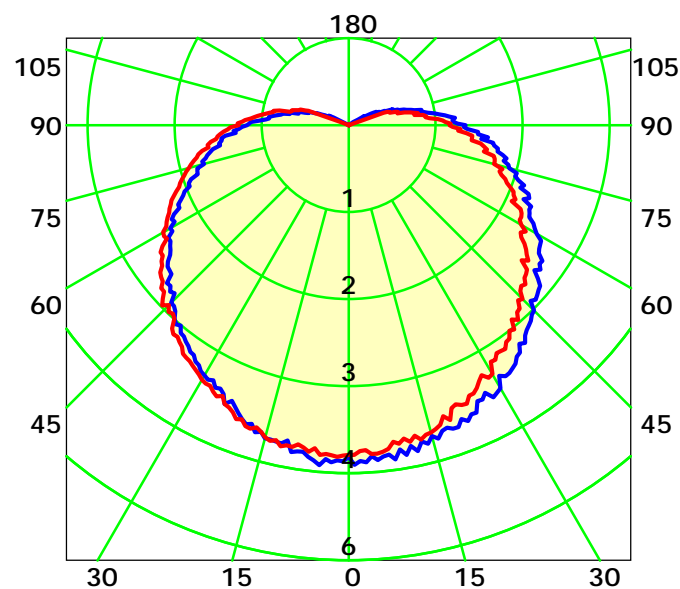
Central Intensity: 4.63 cd

Pos of Max. Intensity: H180 V5

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 145.3° 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

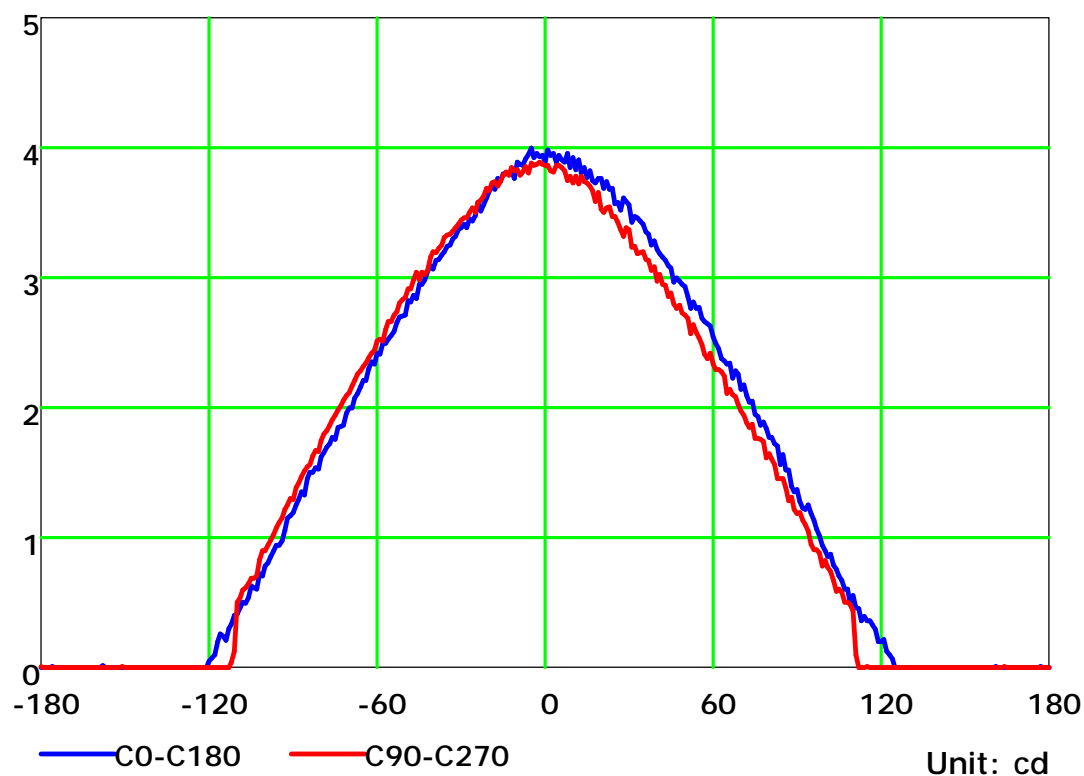
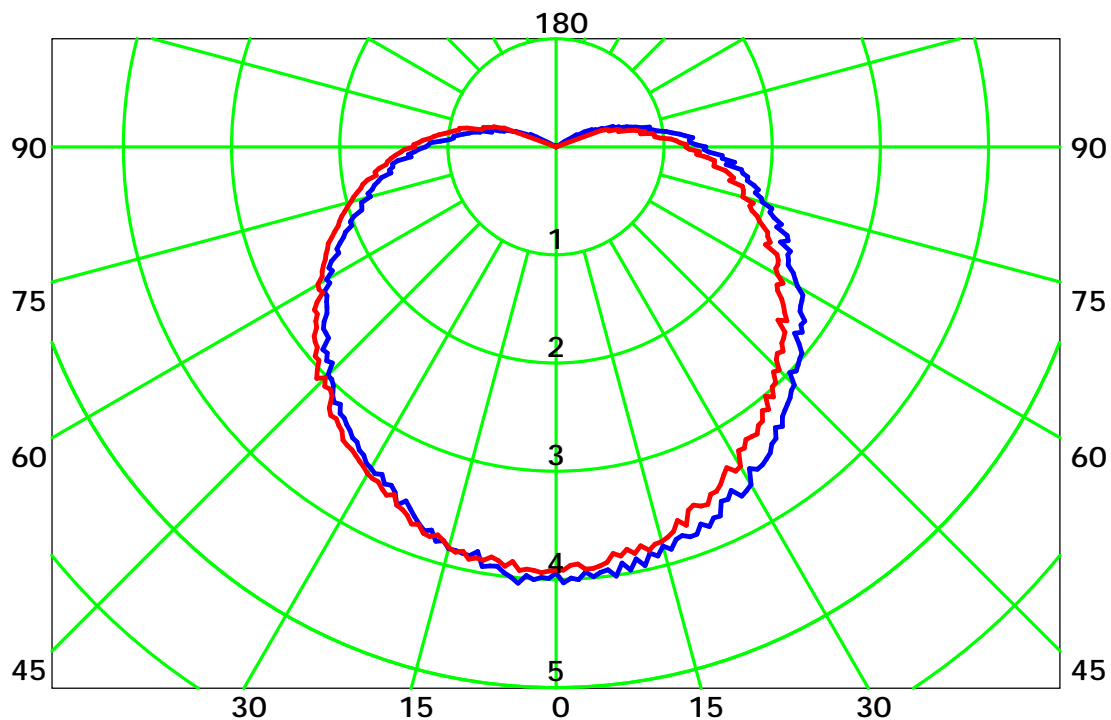
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

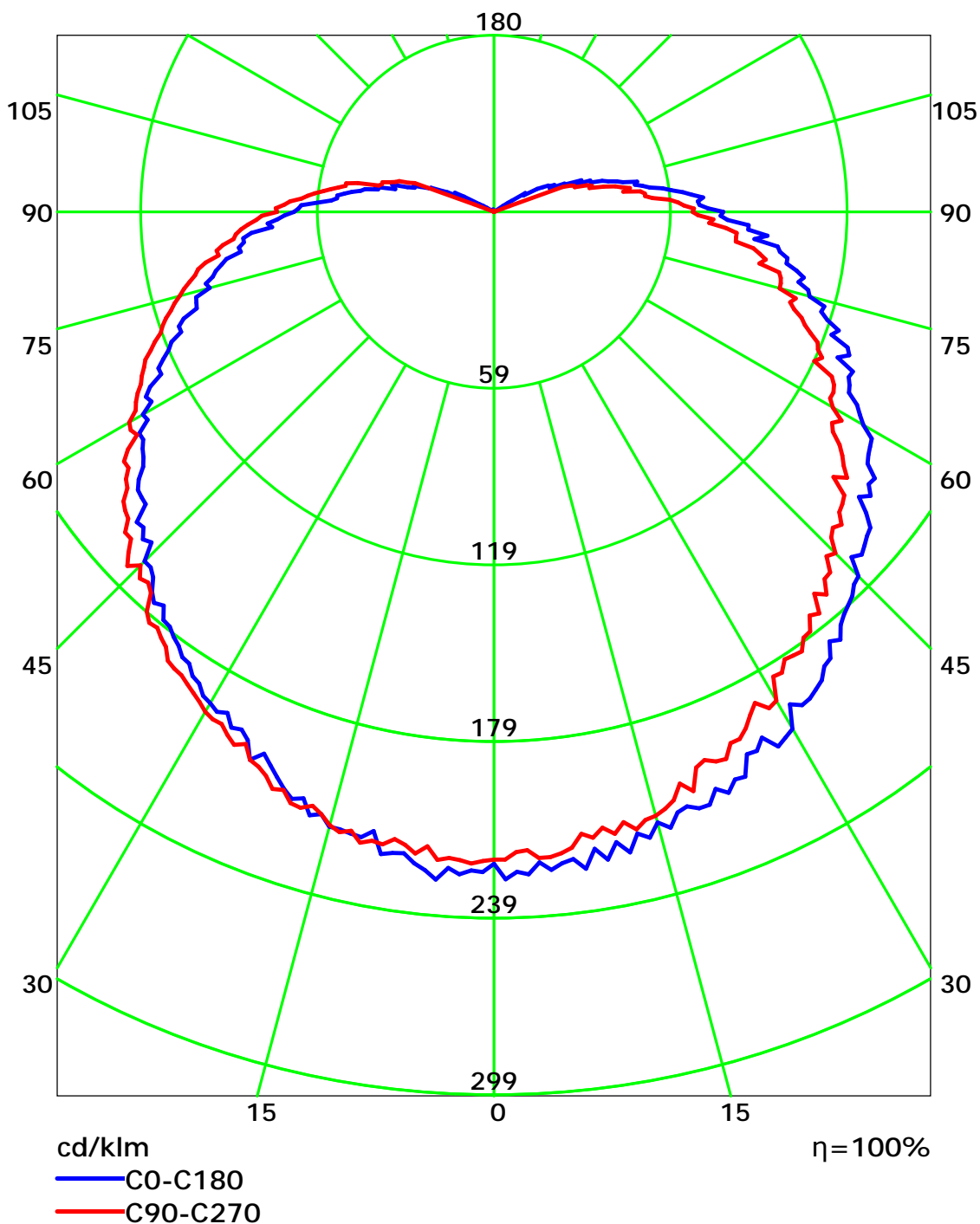
## Luminous Intensity Distribution Curve



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:



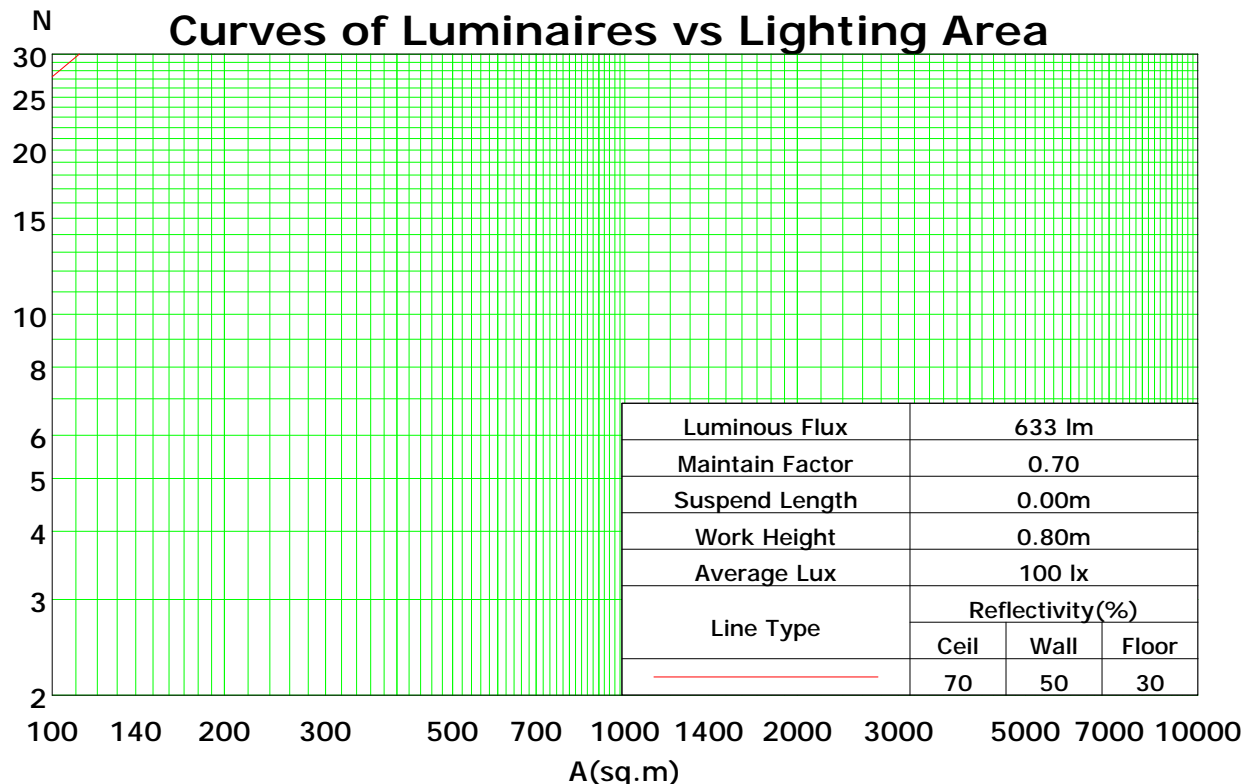
## Coefficients Of Utilization - Zonal Cavity Method

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	91	91	91	88
1	102	96	90	85	98	92	87	82	86	81	77	80	76	73	74	71	69	65
2	91	81	73	66	87	78	71	64	73	66	61	67	62	58	63	58	55	52
3	82	70	61	53	79	68	59	52	63	56	49	58	52	47	54	49	45	42
4	75	62	52	44	72	59	50	43	55	47	41	51	45	39	48	42	38	35
5	69	54	45	37	66	53	43	37	49	41	35	46	39	34	43	37	32	30
6	63	49	39	32	60	47	38	32	44	36	30	41	34	29	39	33	28	25
7	58	44	35	28	56	43	34	28	40	32	27	37	31	26	35	29	25	22
8	54	40	31	25	52	39	30	24	36	29	23	34	28	23	32	26	22	20
9	51	37	28	22	49	35	27	22	33	26	21	31	25	20	30	24	20	18
10	47	34	25	20	45	33	25	20	31	24	19	29	23	18	27	22	18	16

Spacing Criteria (0-180): 1.33

Spacing Criteria (90-270): 1.30

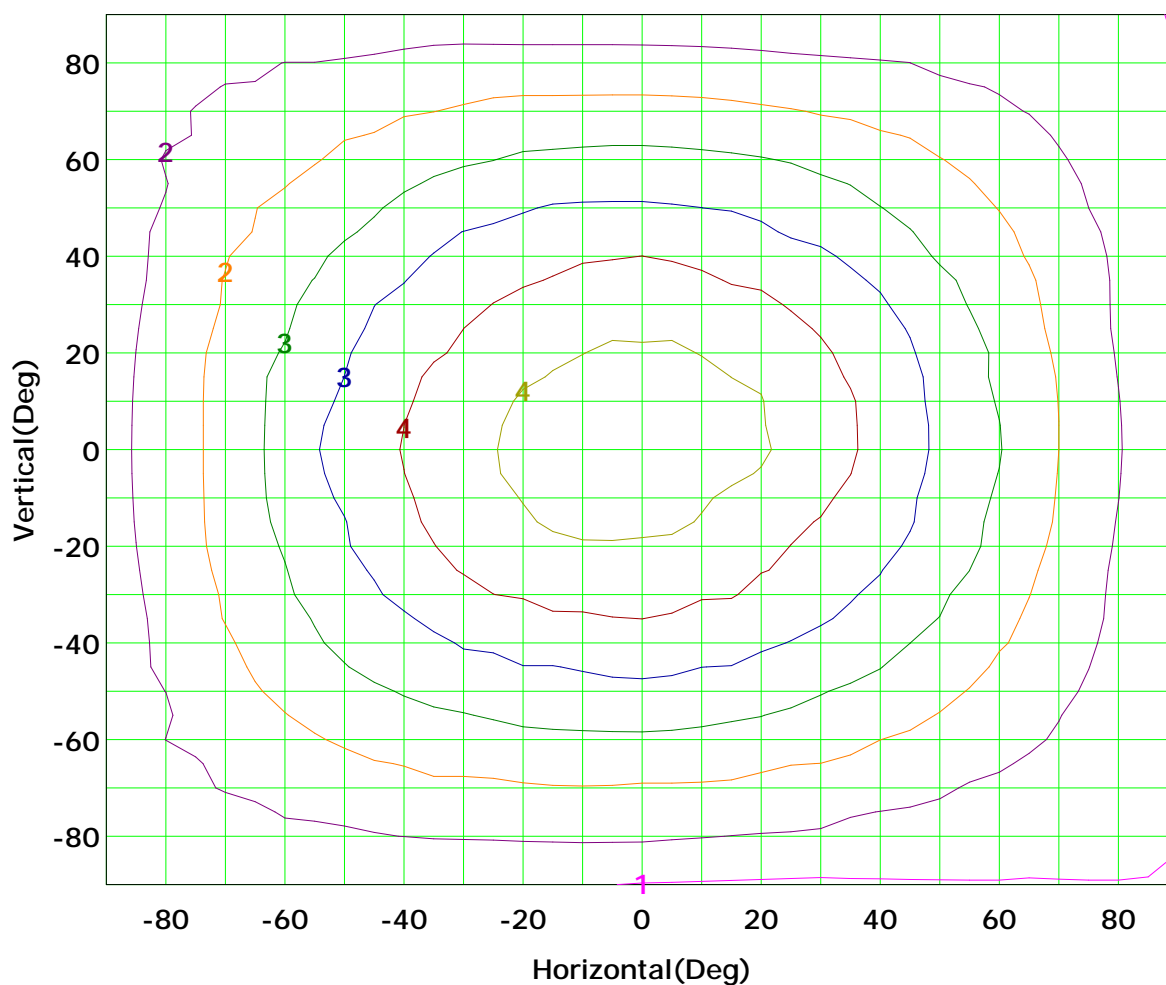
Spacing Criteria (Diagonal): 1.47



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)



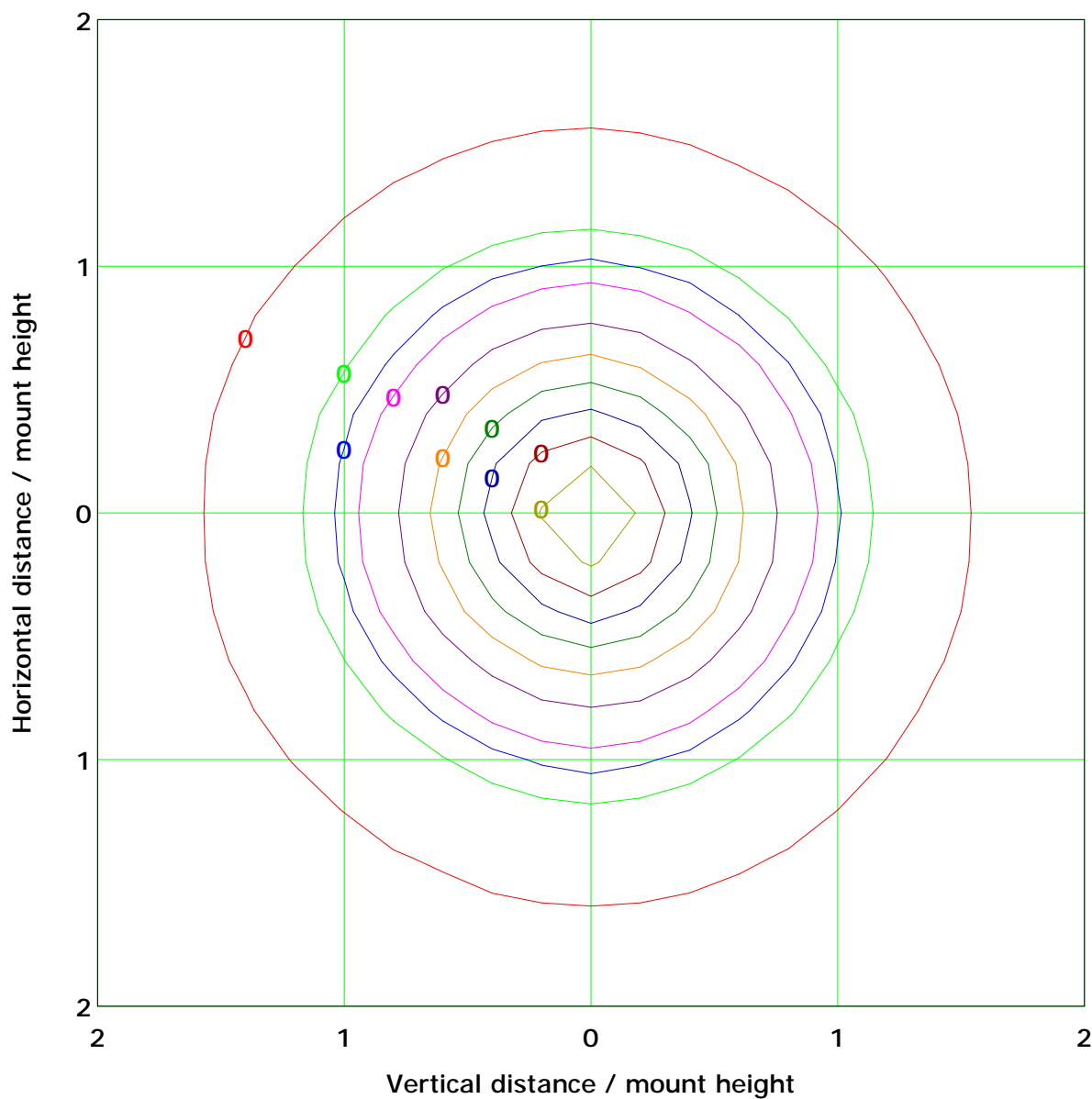
I<sub>max</sub> (100%): 5 cd

( 10%):	0 cd	( 20%):	1 cd
( 25%):	1 cd	( 30%):	1 cd
( 40%):	2 cd	( 50%):	2 cd
( 60%):	3 cd	( 70%):	3 cd
( 80%):	4 cd	( 90%):	4 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:

## IsoLux Plot



Mounting Height: 5.0m    Max Lux(100%): 0.2 lx			
( 10%):	0.0 lx	( 20%):	0.0 lx
( 25%):	0.0 lx	( 30%):	0.1 lx
( 40%):	0.1 lx	( 50%):	0.1 lx
( 60%):	0.1 lx	( 70%):	0.1 lx
( 80%):	0.2 lx	( 90%):	0.2 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:

## 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



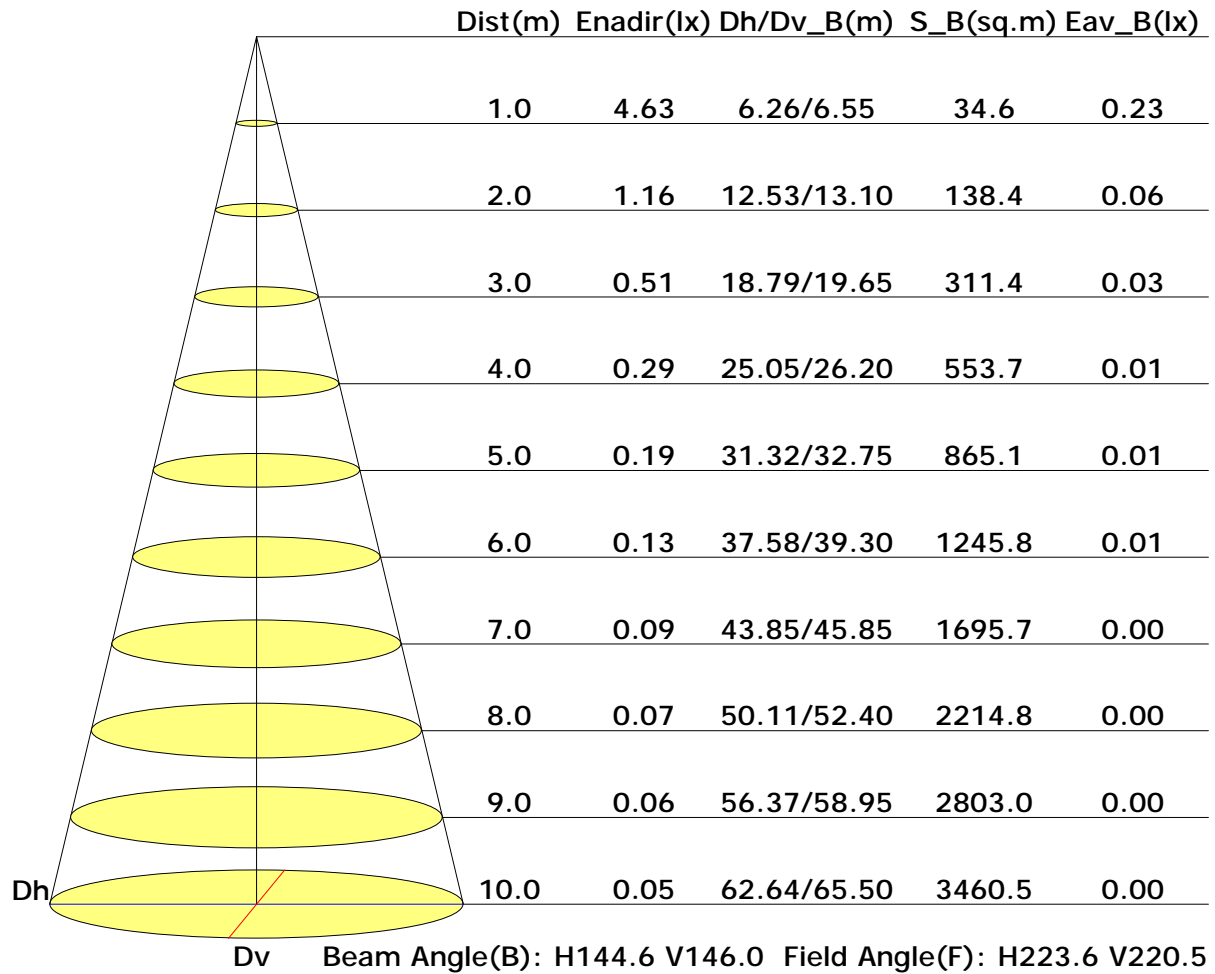
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	383	368	354	333	316	302	290	281	280
C90	408	392	378	362	343	340	326	331	323
C180	367	341	326	317	299	282	261	257	248
C270	422	412	397	389	377	365	359	352	344

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:



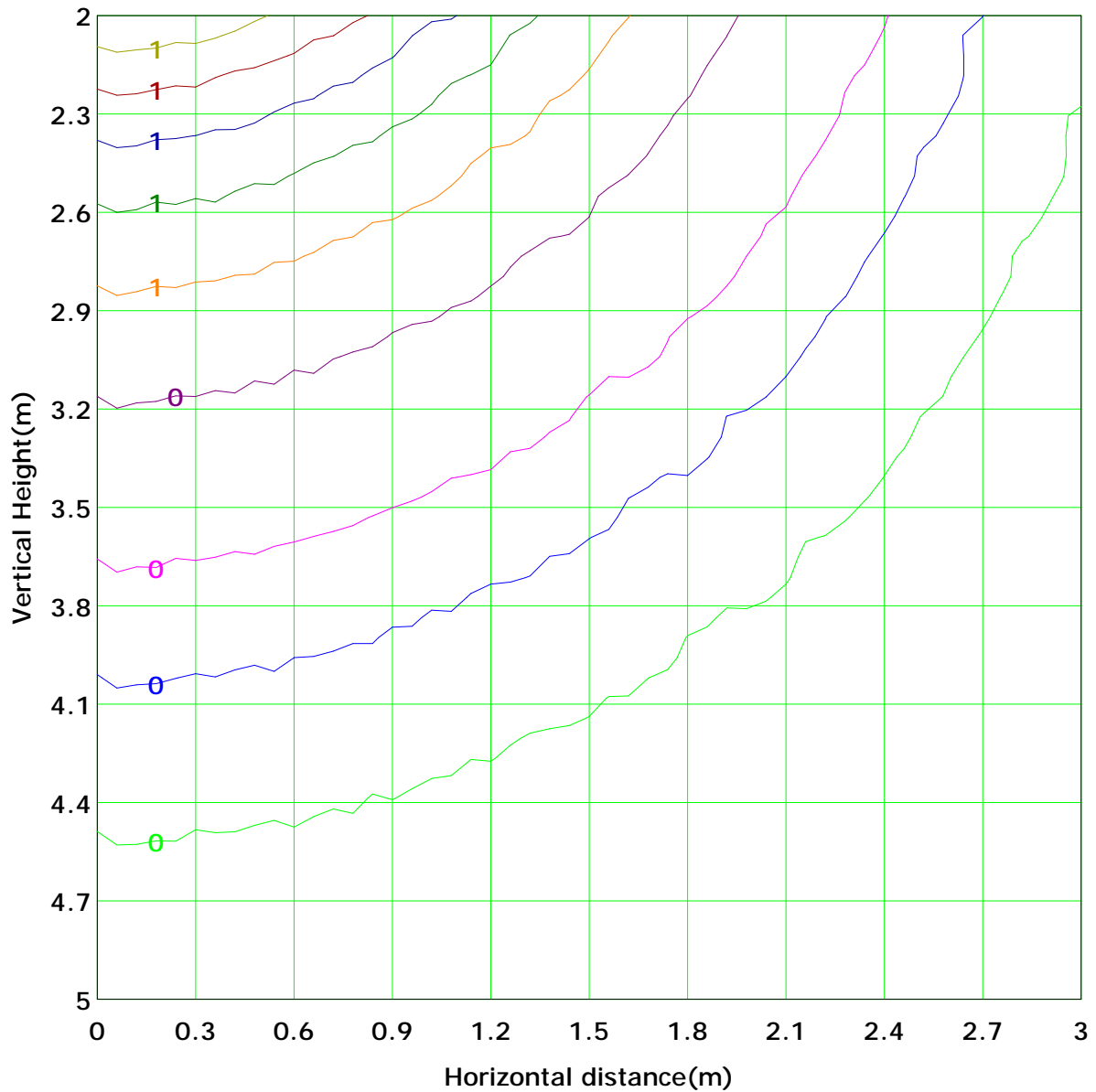
## Illuminance at a Distance







## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 1.2 lx
( 10%): 0.1 lx	( 20%): 0.2 lx	( 30%): 0.4 lx
( 25%): 0.3 lx	( 40%): 0.5 lx	( 50%): 0.6 lx
( 60%): 0.7 lx	( 70%): 0.8 lx	( 90%): 1.1 lx
( 80%): 0.9 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:



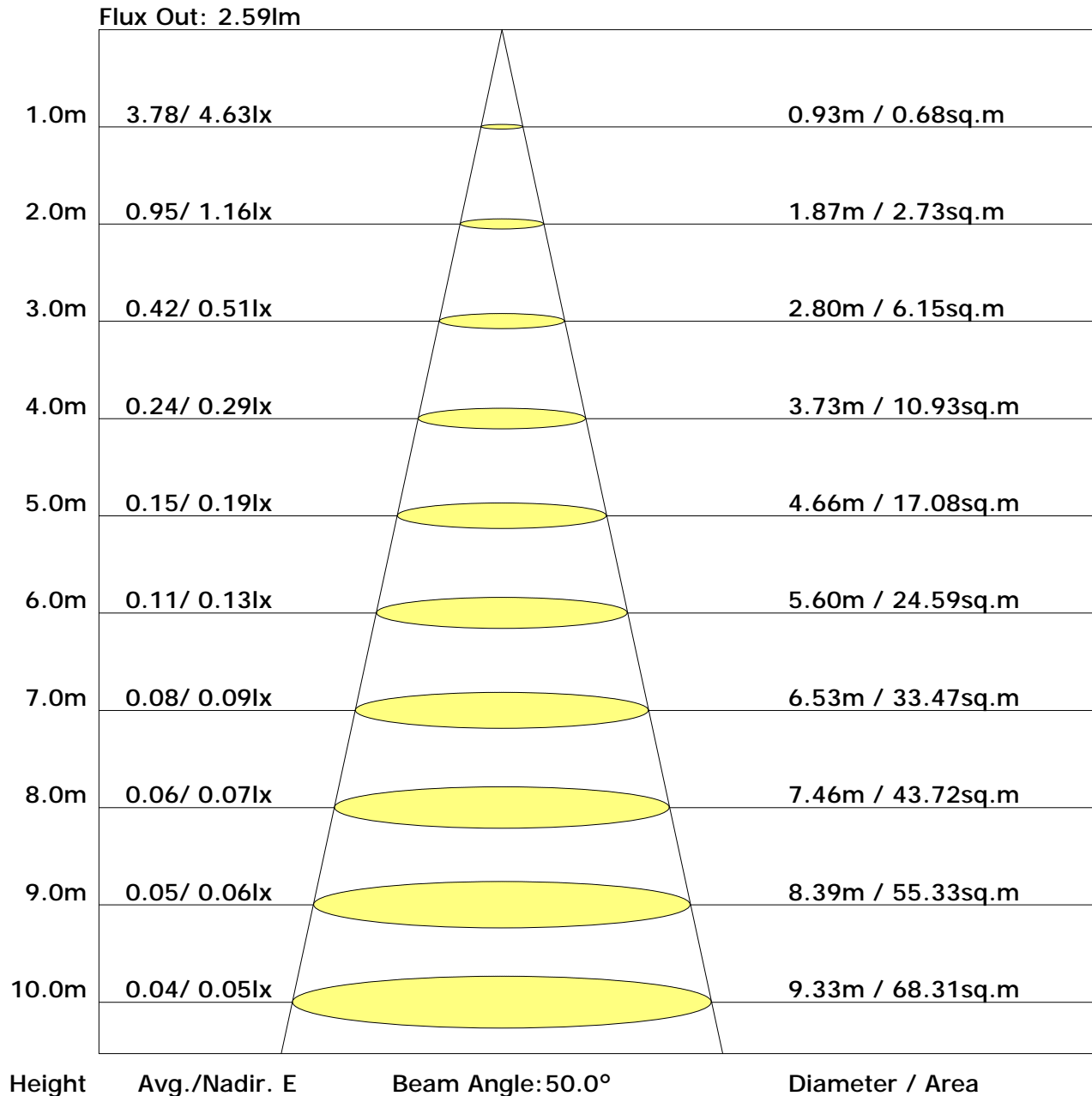
## Unit: Im

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



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:

## UGR Table

<b>Reflectance:</b>										
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
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
X=2H Y=2H	20.9	22.4	21.4	22.9	23.5	20.0	21.5	20.5	22.0	22.6
3H	23.3	24.7	23.8	25.2	25.9	22.3	23.7	22.8	24.3	24.9
4H	24.4	25.8	25.0	26.3	26.9	23.4	24.7	23.9	25.3	25.9
6H	25.5	26.7	26.1	27.3	28.0	24.4	25.7	25.0	26.2	26.9
8H	26.0	27.2	26.6	27.8	28.5	24.9	26.1	25.4	26.7	27.3
12H	26.5	27.6	27.1	28.2	28.9	25.3	26.5	25.9	27.0	27.7
X=4H Y=2H	21.5	22.8	22.0	23.4	24.0	20.7	22.1	21.3	22.6	23.2
3H	24.1	25.3	24.7	25.9	26.5	23.2	24.4	23.8	25.0	25.7
4H	25.4	26.4	26.0	27.0	27.7	24.5	25.5	25.0	26.1	26.8
6H	26.6	27.6	27.2	28.2	28.9	25.6	26.6	26.2	27.2	27.9
8H	27.2	28.1	27.8	28.8	29.5	26.2	27.1	26.8	27.7	28.4
12H	27.8	28.6	28.4	29.3	30.0	26.7	27.5	27.4	28.2	28.9
X=8H Y=4H	25.8	26.7	26.4	27.3	28.0	24.9	25.8	25.5	26.5	27.2
6H	27.2	28.0	27.8	28.6	29.3	26.3	27.1	26.9	27.7	28.5
8H	27.9	28.6	28.6	29.3	30.0	27.0	27.7	27.6	28.4	29.1
12H	28.7	29.3	29.3	30.0	30.8	27.6	28.3	28.3	29.0	29.7
X=12H Y=4H	25.8	26.7	26.5	27.3	28.0	25.0	25.9	25.7	26.5	27.2
6H	27.3	28.0	28.0	28.7	29.4	26.5	27.2	27.1	27.8	28.6
8H	28.1	28.8	28.8	29.4	30.2	27.2	27.8	27.9	28.5	29.3

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	0.81	0.85	0.90	0.94	
	0.30		0.40	0.48	0.55	0.61	0.68	0.74	0.78	0.85	0.89	
	0.20		0.34	0.41	0.49	0.54	0.62	0.68	0.73	0.80	0.84	
0.50	0.50	0.20	0.46	0.53	0.60	0.64	0.71	0.76	0.79	0.84	0.87	
	0.30		0.39	0.46	0.52	0.57	0.65	0.70	0.74	0.79	0.83	
	0.20		0.33	0.40	0.47	0.52	0.59	0.65	0.69	0.75	0.80	
0.30	0.50	0.20	0.43	0.50	0.56	0.60	0.66	0.71	0.74	0.78	0.81	
	0.30		0.37	0.43	0.50	0.54	0.61	0.66	0.69	0.74	0.78	
	0.20		0.32	0.38	0.45	0.50	0.56	0.62	0.66	0.71	0.75	
0.00	0.00	0.00	0.29	0.34	0.40	0.45	0.51	0.56	0.59	0.64	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	1.05	0.92	0.80	0.71	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		0.75	0.69	0.62	0.57	0.49	0.43	0.38	0.32	0.27
0.50	0.50	0.20	0.99	0.87	0.75	0.67	0.56	0.50	0.42	0.34	0.29
	0.30		0.84	0.75	0.67	0.60	0.51	0.44	0.39	0.32	0.27
	0.20		0.73	0.66	0.60	0.55	0.47	0.41	0.37	0.31	0.26
0.30	0.50	0.20	0.94	0.82	0.71	0.63	0.53	0.45	0.40	0.32	0.27
	0.30		0.80	0.72	0.64	0.57	0.49	0.42	0.37	0.31	0.26
	0.20		0.71	0.64	0.58	0.53	0.45	0.40	0.35	0.29	0.25
0.00	0.00	0.00	0.60	0.54	0.48	0.44	0.38	0.33	0.29	0.24	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	0.30	0.31	0.31	0.32	0.33	0.33	0.33	0.34
	0.30		0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30
	0.20		0.16	0.17	0.18	0.20	0.21	0.23	0.24	0.26	0.27
0.50	0.50	0.20	0.27	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.32
	0.30		0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29
	0.20		0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26
0.30	0.50	0.20	0.26	0.28	0.29	0.29	0.30	0.30	0.30	0.31	0.31
	0.30		0.20	0.22	0.23	0.23	0.25	0.26	0.26	0.27	0.28
	0.20		0.16	0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25
0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
<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>											