

Report No.:

Test Time: 2017/7/12 15:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 5W Domenode98 Milky RGB(G)

Luminaire Description: 5W Domenode98 Milky RGB(G)

Luminous Length (mm): 98

Luminous Width (mm): 73

Luminous Height (mm): 65

Voltage: 24.0 V

Current: 0.078 A

Power: 1.88 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 47.9 lm

Downward Ratio: 88%

Horizontal Diffuse Angle(50%): H146.4

Vertical Diffuse Angle(50%): V146

Luminaire Efficacy Rating (LER): 25

Max. Intensity: 10.5 cd

Total Rated Lamp Lumens: 47.9 lm

Efficiency: 100%

Upward Ratio: 12%

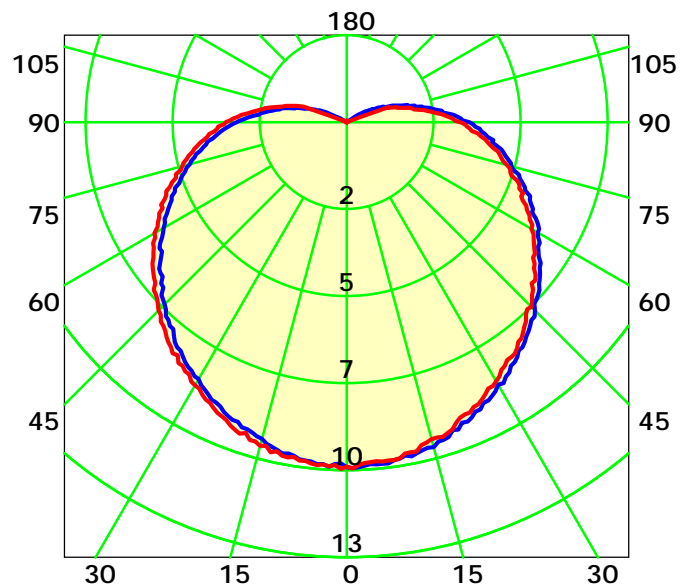
Central Intensity: 10.45 cd

Pos of Max. Intensity: H270 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 146.2° 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

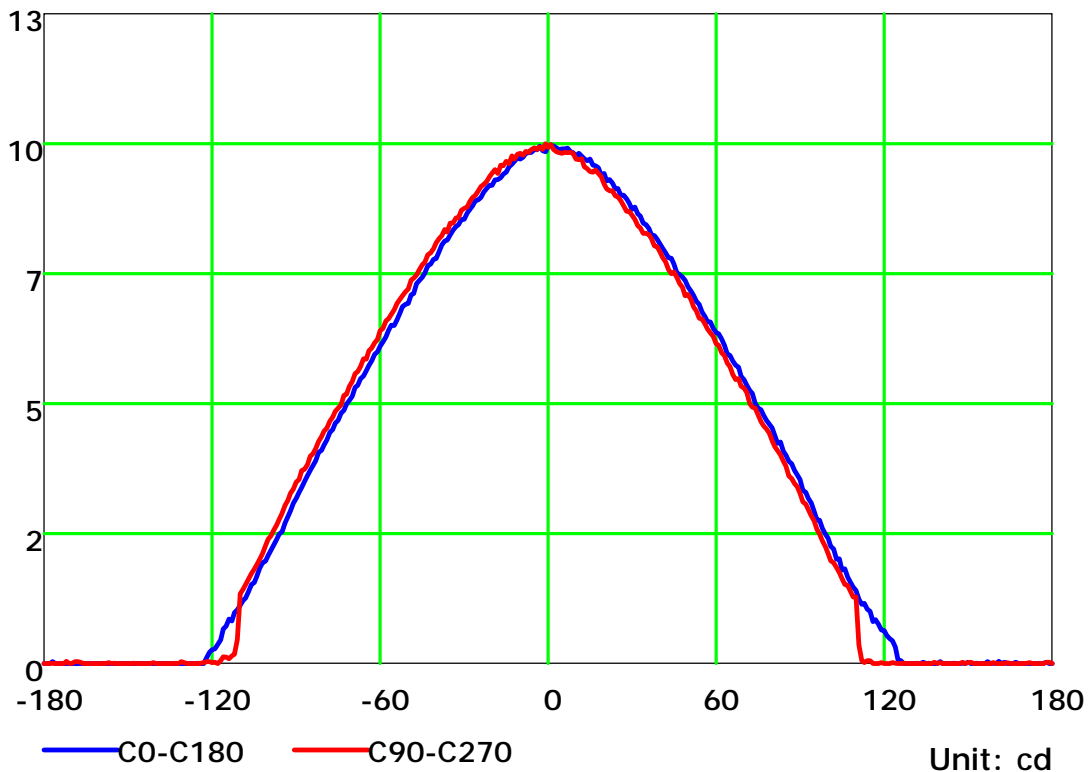
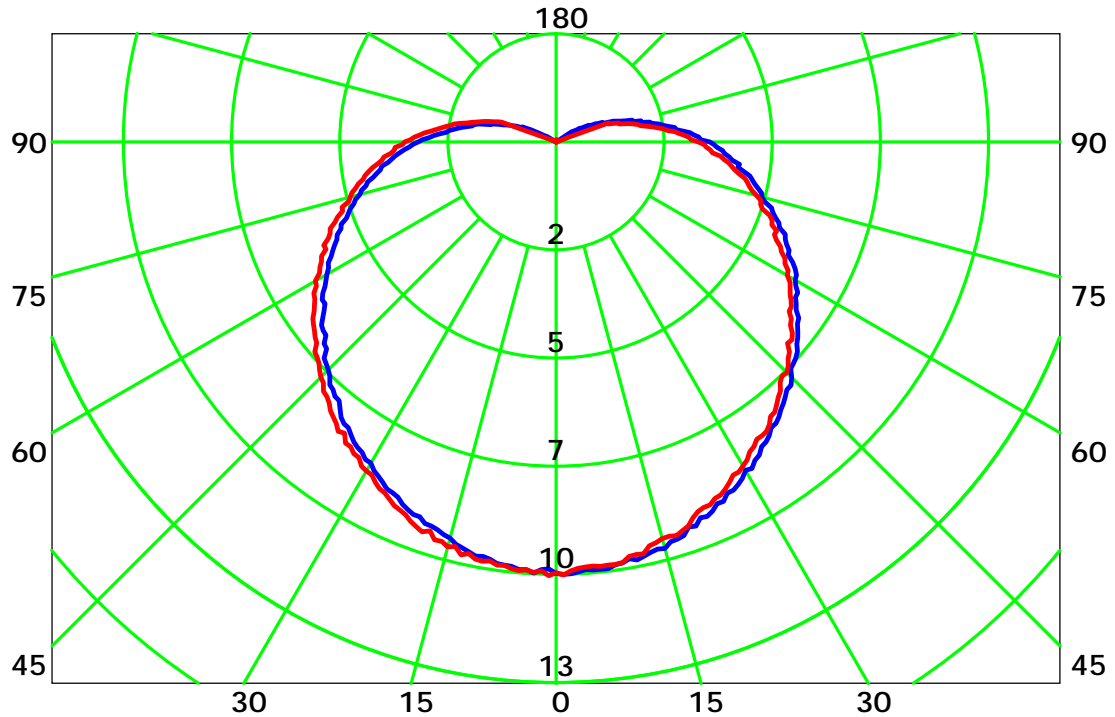
Distance: 9.028 m

Humidity: 60%

Inspector:



Luminous Intensity Distribution Curve

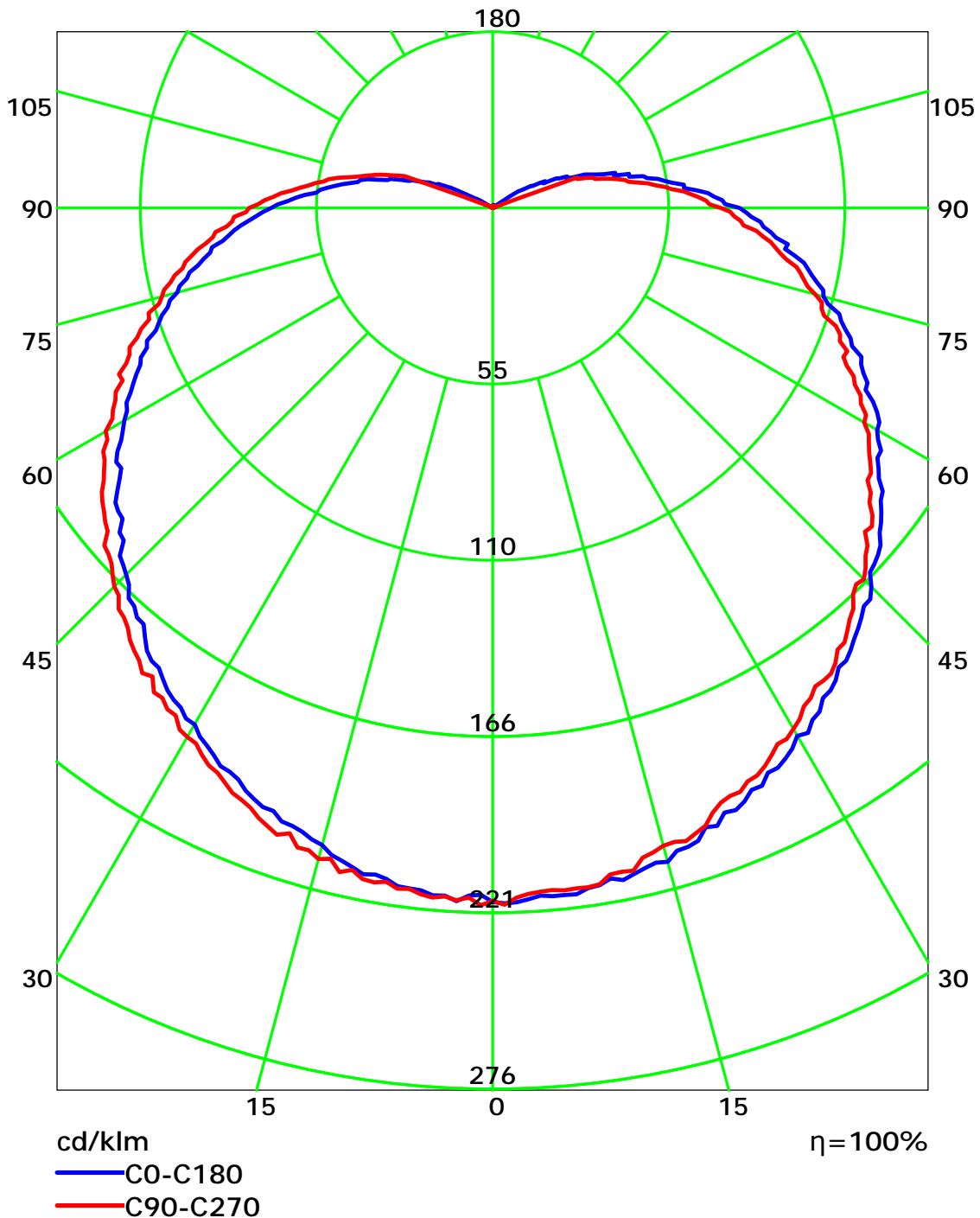


C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25°C
Operator: Roy

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:

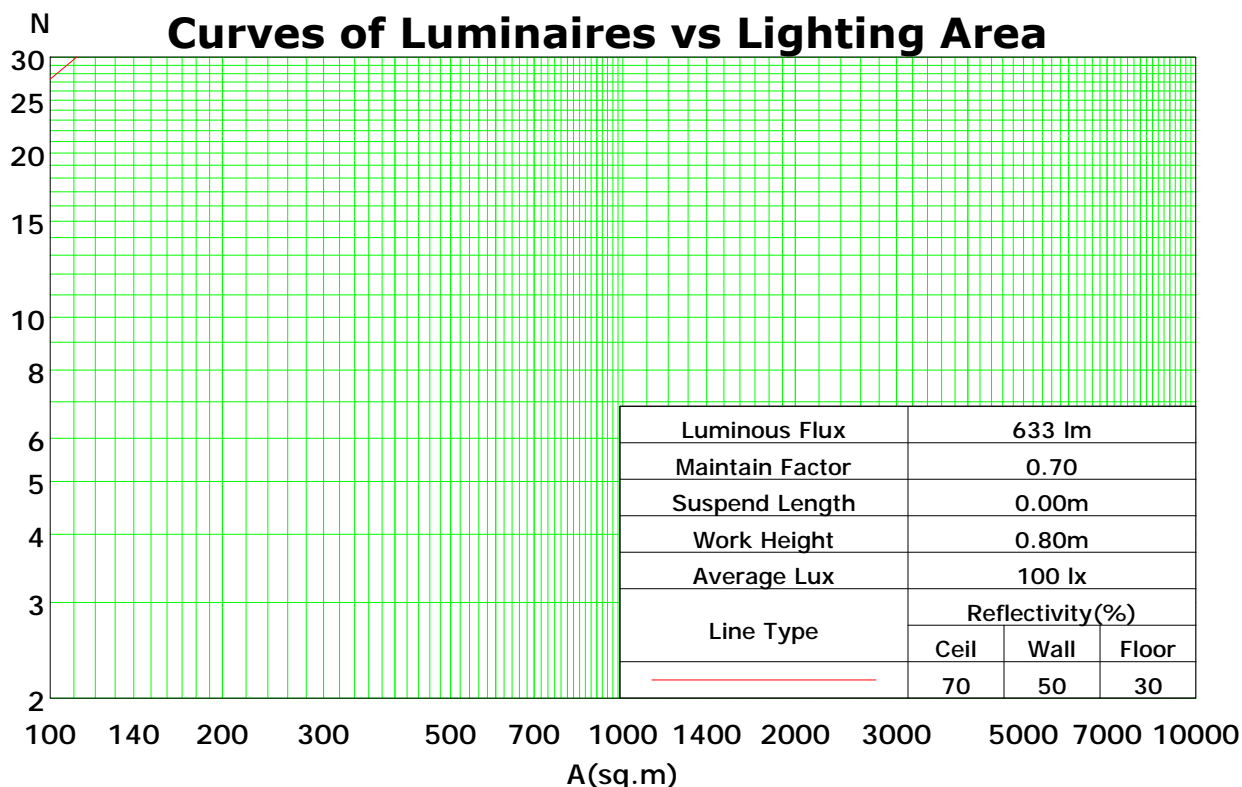
Coefficients Of Utilization - Zonal Cavity Method

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	104	104	104	97	97	97	91	91	91	88
1	102	95	90	85	98	92	87	82	85	81	77	79	76	72	73	71	68	65
2	91	81	73	66	87	78	70	64	72	66	61	67	62	57	62	58	54	51
3	82	70	61	53	79	67	59	52	63	55	49	58	52	47	54	49	44	41
4	75	61	52	44	71	59	50	43	55	47	41	51	44	39	47	42	37	34
5	68	54	45	37	65	52	43	36	49	41	35	46	39	33	42	37	32	29
6	63	49	39	32	60	47	38	31	44	36	30	41	34	29	38	32	28	25
7	58	44	35	28	56	42	34	27	40	32	26	37	30	25	35	29	24	22
8	54	40	31	25	52	39	30	24	36	29	23	34	27	22	32	26	22	19
9	50	36	28	22	48	35	27	22	33	26	21	31	25	20	29	24	19	17
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	27	22	18	16

Spacing Criteria (0-180): 1.31

Spacing Criteria (90-270): 1.31

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

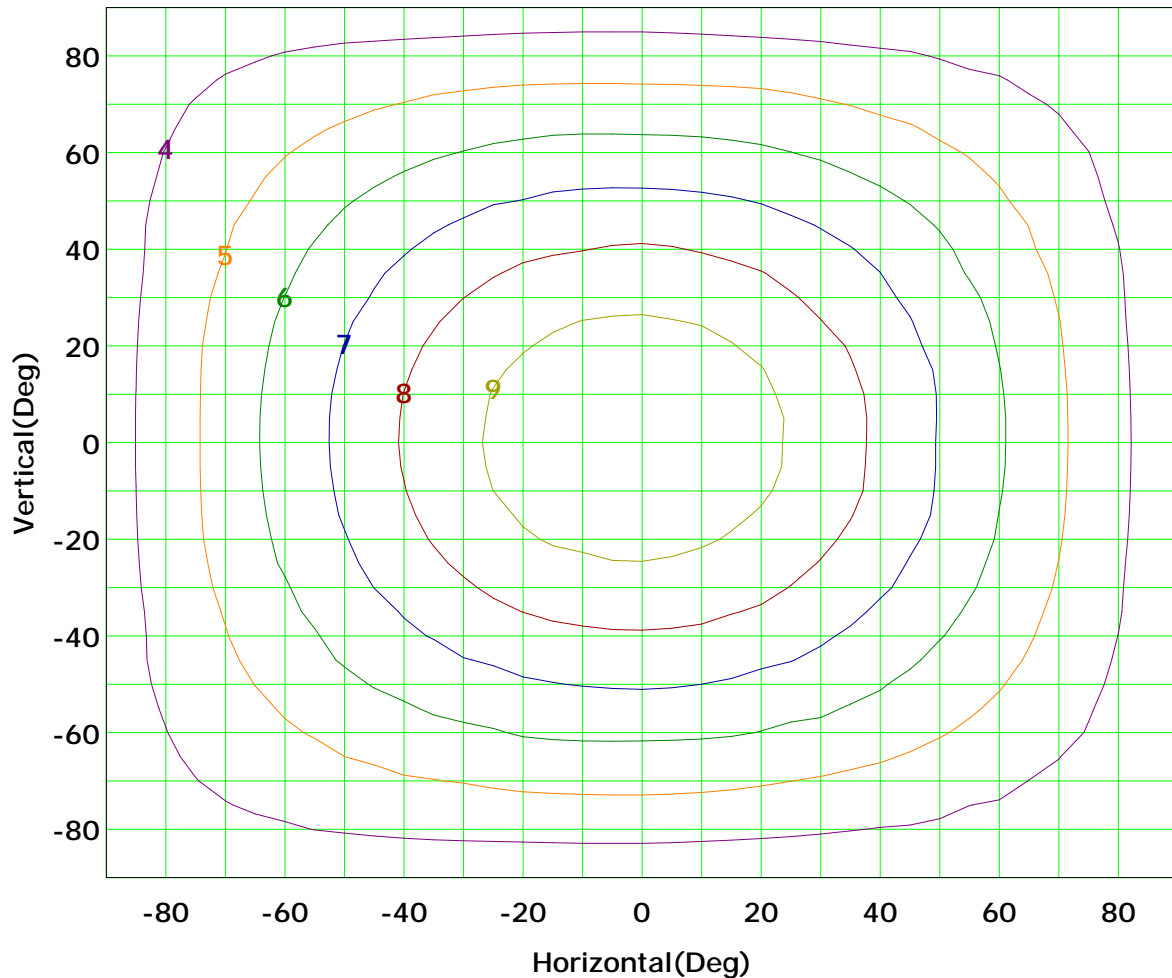
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 11 cd

(10%):	1 cd	(20%):	2 cd
(25%):	3 cd	(30%):	3 cd
(40%):	4 cd	(50%):	5 cd
(60%):	6 cd	(70%):	7 cd
(80%):	8 cd	(90%):	9 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

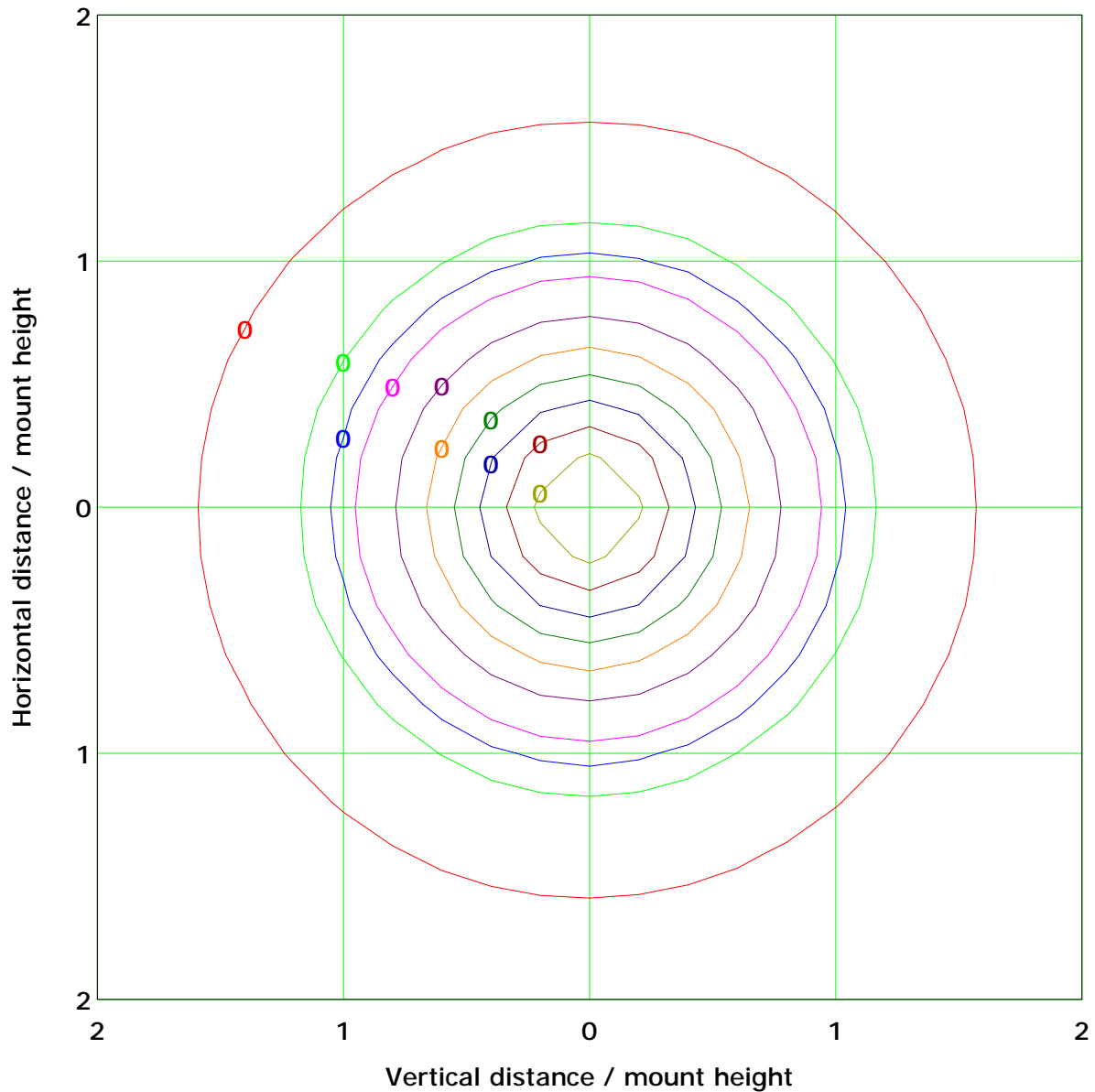
Distance: 9.028 m

Humidity: 60%

Inspector:



IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 0.4 lx

(10%): 0.0 lx	(20%): 0.1 lx
(25%): 0.1 lx	(30%): 0.1 lx
(40%): 0.2 lx	(50%): 0.2 lx
(60%): 0.3 lx	(70%): 0.3 lx
(80%): 0.3 lx	(90%): 0.4 lx

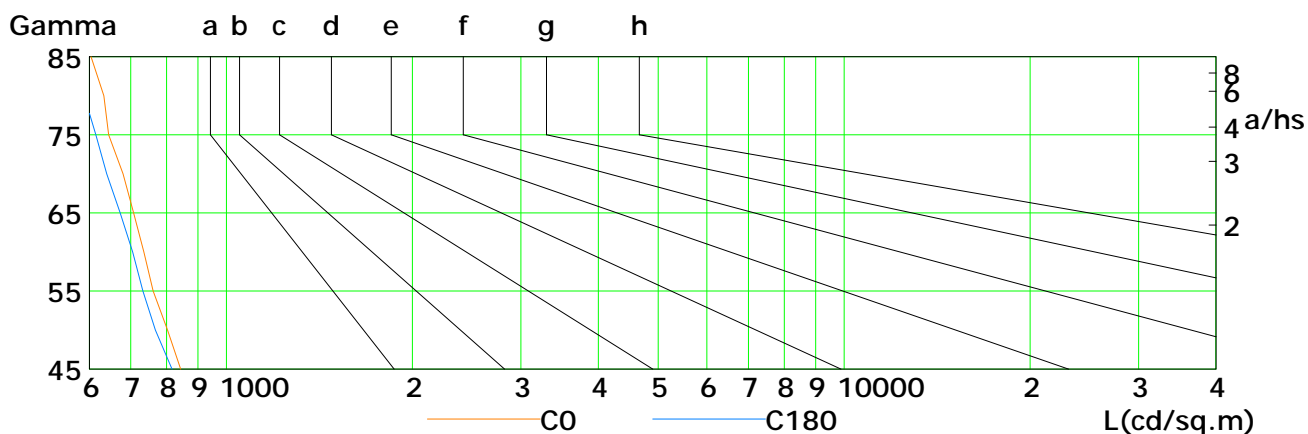
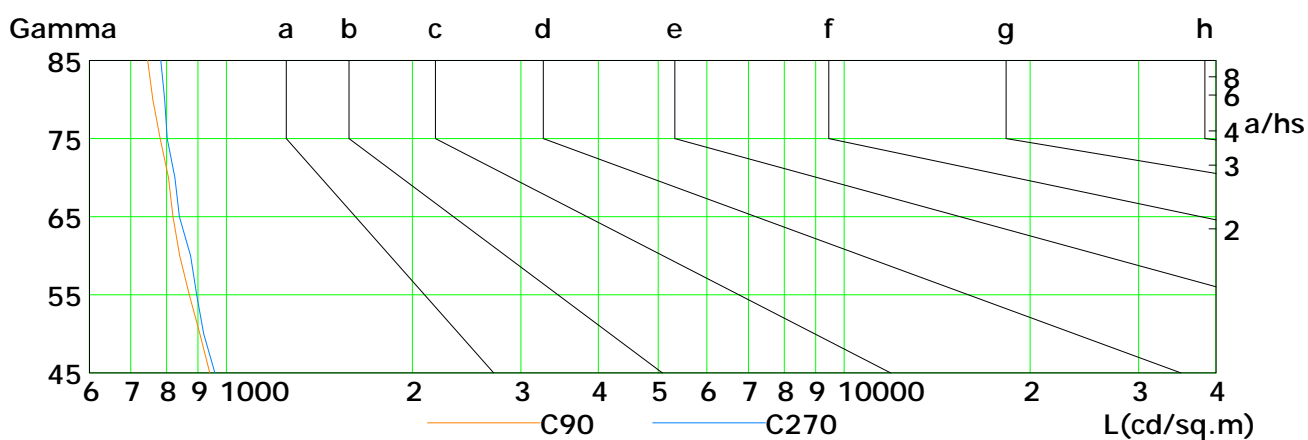
C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25°C
Operator: Roy

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	844	803	762	736	708	681	645	633	604
C90	940	906	871	840	819	807	782	761	746
C180	817	768	733	705	673	640	615	588	561
C270	958	919	895	876	840	825	802	795	783

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

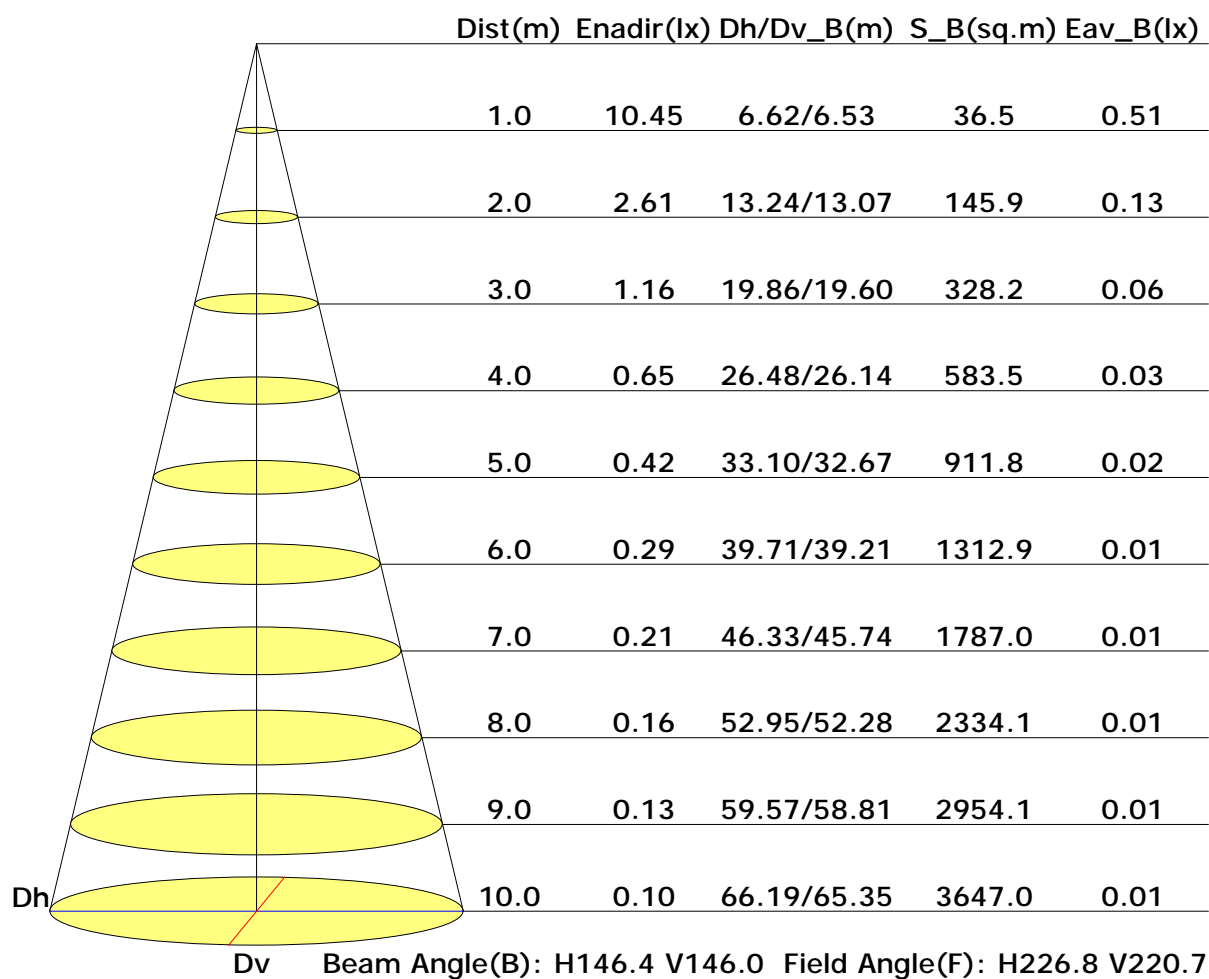
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

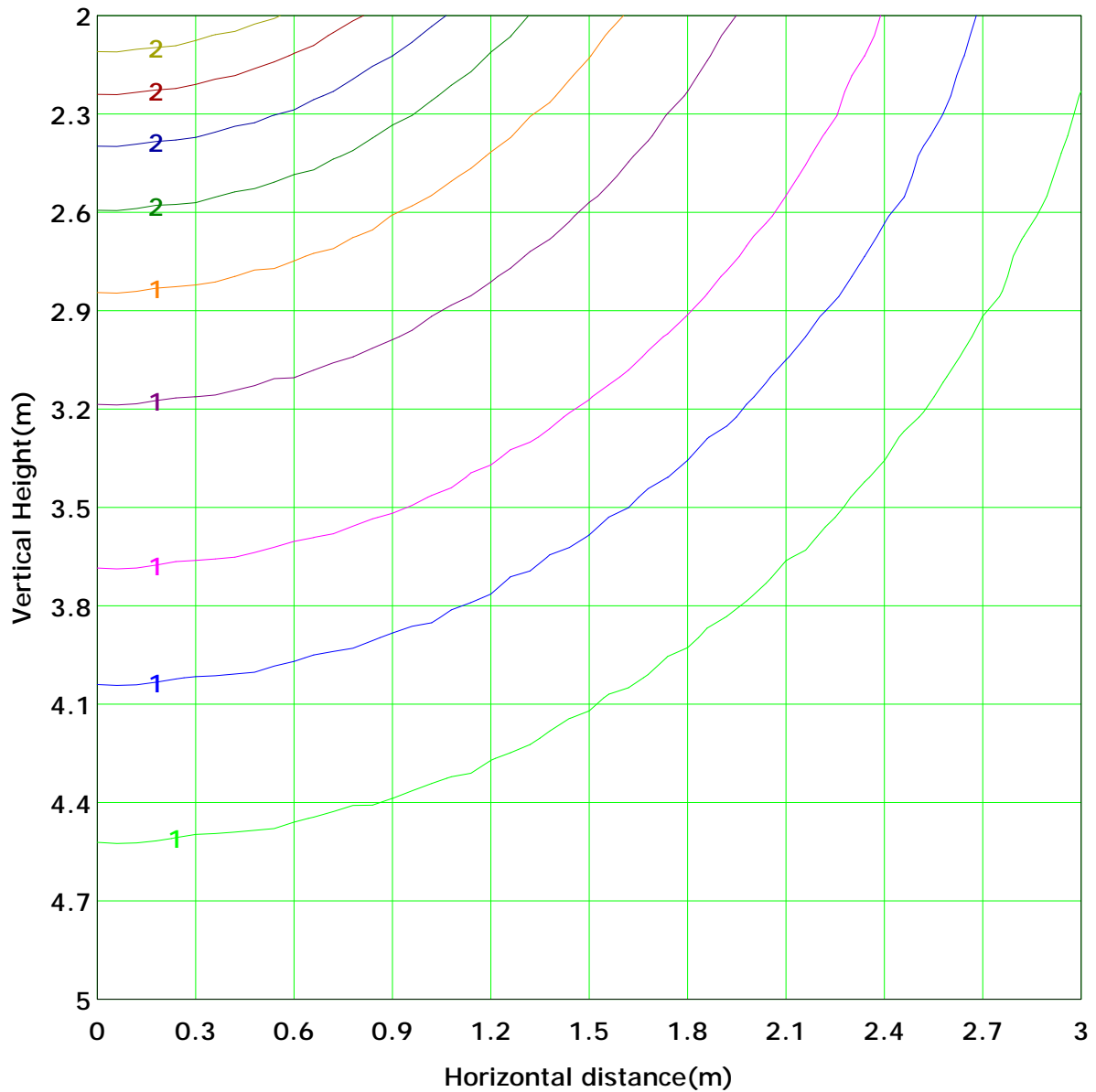
Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 2.6 lx
(10%): 0.3 lx	(20%): 0.5 lx	(30%): 0.8 lx
(25%): 0.7 lx	(50%): 1.3 lx	(70%): 1.8 lx
(40%): 1.0 lx	(80%): 2.1 lx	(90%): 2.4 lx
(60%): 1.6 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

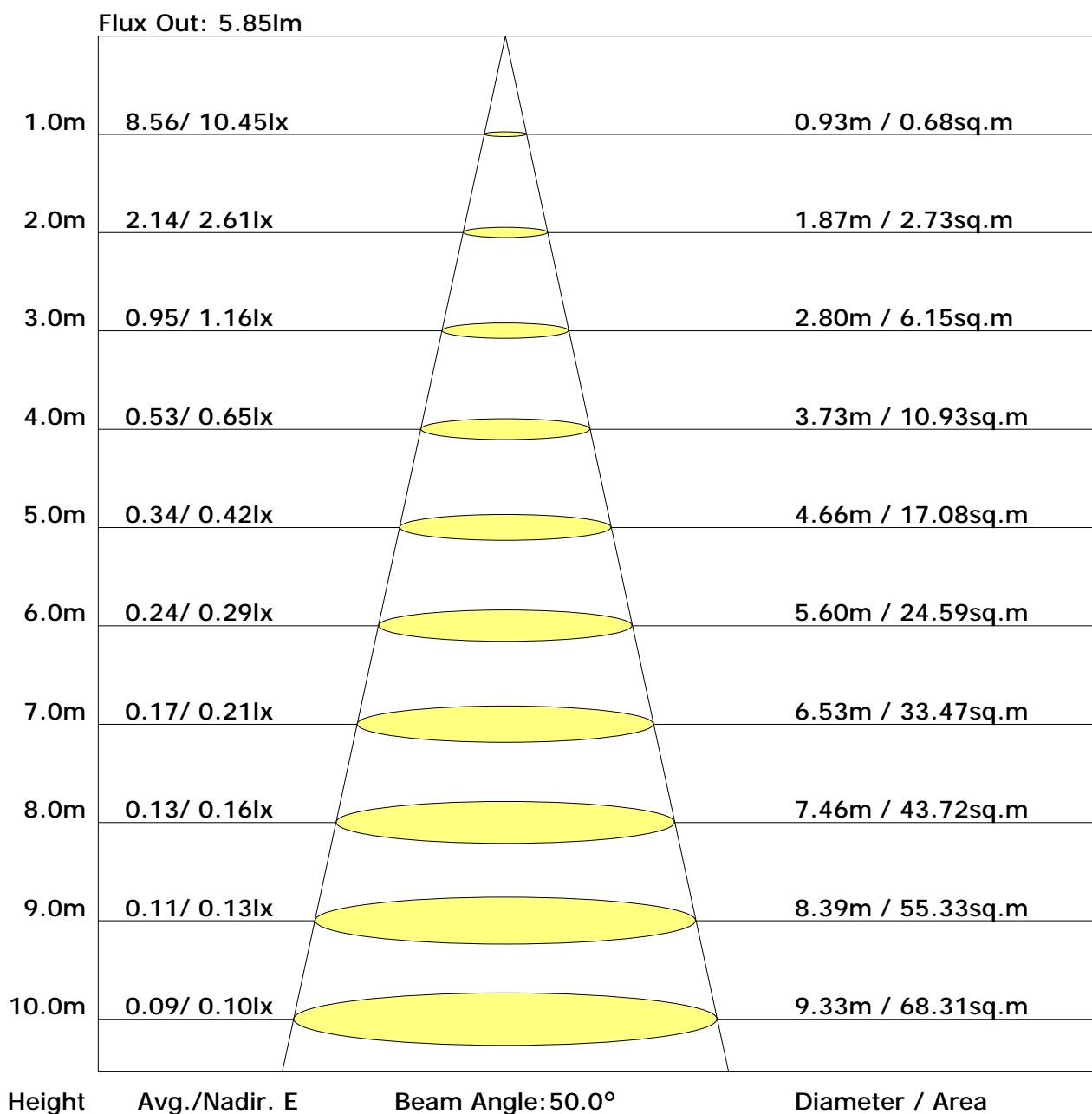
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Orbit, m	
Flux(E)	-90	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.4	1.4
	-80	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.7	1.7
	-70	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	2.0	2.0
	-60	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	2.2	2.2
	-50	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	2.5	2.5
	-40	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.0	0.0	2.7	2.7
	-30	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.0	0.0	2.8	2.8
	-20	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	3.0	3.0
	-10	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	2.9	2.9
	0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	2.8	2.8
Flux(T)	-90	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	2.6	2.6
	-80	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	2.4	2.4
	-70	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	2.2	2.2
	-60	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	1.9	1.9
	-50	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.6	1.6
	-40	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.4	1.4
	-30	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.4	1.4
	-20	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.4	1.4
	-10	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.4	1.4
	0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.4	1.4
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)lm	Flux(E)lm
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	42	42

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	20.1	21.7	20.7	22.2	22.8
3H	23.1	24.5	23.6	25.0	25.6	22.4	23.8	23.0	24.4	25.0
4H	24.2	25.5	24.7	26.1	26.7	23.5	24.8	24.1	25.4	26.1
6H	25.3	26.5	25.8	27.1	27.8	24.5	25.8	25.1	26.3	27.0
8H	25.8	27.0	26.4	27.6	28.2	25.0	26.2	25.6	26.8	27.4
12H	26.3	27.4	26.9	28.0	28.7	25.4	26.6	26.0	27.2	27.9
X=4H Y=2H	21.3	22.6	21.8	23.2	23.8	20.8	22.2	21.4	22.7	23.4
3H	23.9	25.1	24.5	25.7	26.3	23.4	24.5	23.9	25.1	25.8
4H	25.2	26.2	25.8	26.9	27.5	24.6	25.6	25.2	26.3	27.0
6H	26.4	27.4	27.0	28.0	28.7	25.7	26.7	26.4	27.3	28.0
8H	27.0	27.9	27.6	28.6	29.3	26.3	27.2	26.9	27.8	28.6
12H	27.6	28.5	28.3	29.1	29.8	26.8	27.7	27.5	28.3	29.1
X=8H Y=4H	25.6	26.5	26.2	27.1	27.8	25.0	25.9	25.7	26.6	27.3
6H	27.0	27.8	27.7	28.5	29.2	26.4	27.2	27.0	27.8	28.6
8H	27.7	28.5	28.4	29.1	29.9	27.1	27.8	27.7	28.5	29.2
12H	28.5	29.1	29.2	29.8	30.6	27.8	28.4	28.4	29.1	29.9
X=12H Y=4H	25.7	26.5	26.3	27.1	27.9	25.1	26.0	25.8	26.6	27.4
6H	27.2	27.9	27.8	28.5	29.3	26.6	27.3	27.2	27.9	28.7
8H	28.0	28.6	28.6	29.3	30.1	27.3	28.0	28.0	28.6	29.4

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	0.48	0.56	0.63	0.68	0.76	0.81	0.85	0.90	0.93
	0.30		0.40	0.48	0.55	0.60	0.68	0.74	0.78	0.84	0.88
	0.20		0.34	0.41	0.48	0.54	0.62	0.68	0.72	0.79	0.84
0.50	0.50	0.20	0.46	0.53	0.59	0.64	0.71	0.75	0.79	0.83	0.87
	0.30		0.38	0.45	0.52	0.57	0.64	0.69	0.73	0.79	0.83
	0.20		0.33	0.40	0.46	0.51	0.59	0.64	0.69	0.75	0.79
0.30	0.50	0.20	0.43	0.49	0.55	0.60	0.66	0.70	0.73	0.78	0.81
	0.30		0.37	0.43	0.49	0.54	0.61	0.65	0.69	0.74	0.77
	0.20		0.32	0.38	0.44	0.49	0.56	0.61	0.65	0.70	0.74
0.00	0.00	0.00	0.29	0.34	0.40	0.44	0.50	0.55	0.59	0.63	0.67
<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	0.86	0.75	0.67	0.56	0.50	0.42	0.34	0.29
	0.30		0.84	0.75	0.66	0.60	0.51	0.44	0.39	0.32	0.27
	0.20		0.73	0.66	0.59	0.54	0.47	0.41	0.37	0.31	0.26
0.30	0.50	0.20	0.94	0.81	0.71	0.63	0.52	0.45	0.40	0.32	0.27
	0.30		0.80	0.72	0.63	0.57	0.48	0.42	0.37	0.31	0.26
	0.20		0.70	0.64	0.57	0.52	0.45	0.40	0.35	0.29	0.25
0.00	0.00	0.00	0.59	0.54	0.48	0.44	0.37	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	0.29	0.30	0.31	0.32	0.33	0.33	0.33	0.34	0.34
	0.30		0.21	0.23	0.24	0.25	0.27	0.28	0.29	0.30	0.30
	0.20		0.16	0.17	0.19	0.20	0.22	0.23	0.24	0.26	0.27
0.50	0.50	0.20	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.32	0.33
	0.30		0.21	0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.29
	0.20		0.16	0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.26
0.30	0.50	0.20	0.27	0.28	0.29	0.29	0.30	0.31	0.31	0.31	0.31
	0.30		0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.28
	0.20		0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26
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>											