

Report No.:

Test Time: 2017/7/12 16:14

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 5W Domenode98 Milky RGB(ALL)

Luminaire Description: 5W Domenode98 Milky RGB(ALL)

Luminous Length (mm): 98

Luminous Width (mm): 73

Luminous Height (mm): 65

Voltage: 24.0 V

Current: 0.203 A

Power: 4.87 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 75.4 lm

Downward Ratio: 88%

Horizontal Diffuse Angle(50%): H147.3

Vertical Diffuse Angle(50%): V147.6

Luminaire Efficacy Rating (LER): 15

Max. Intensity: 16.64 cd

Total Rated Lamp Lumens: 75.4 lm

Efficiency: 100%

Upward Ratio: 12%

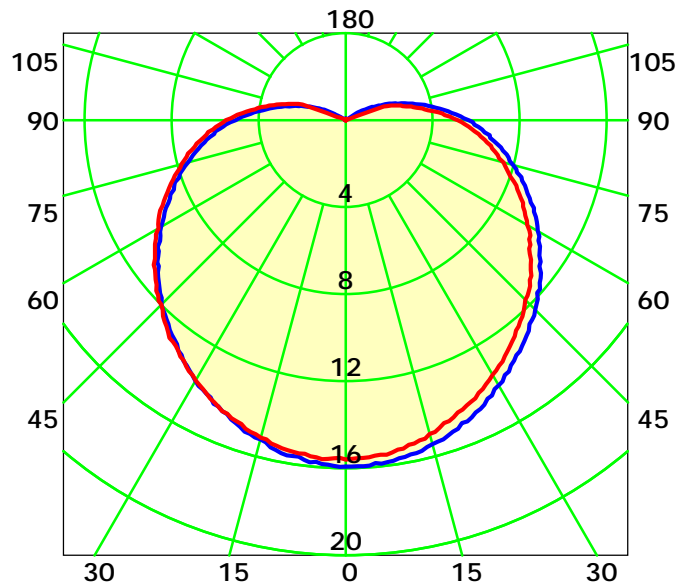
Central Intensity: 16.62 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 147.5° 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

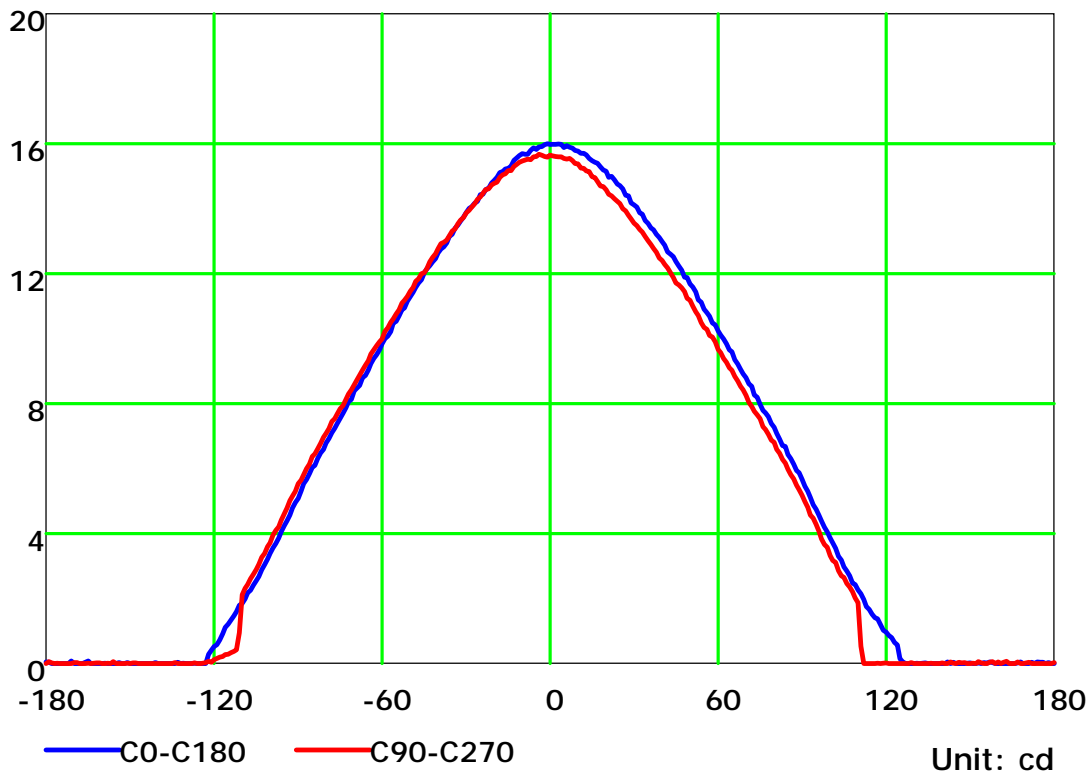
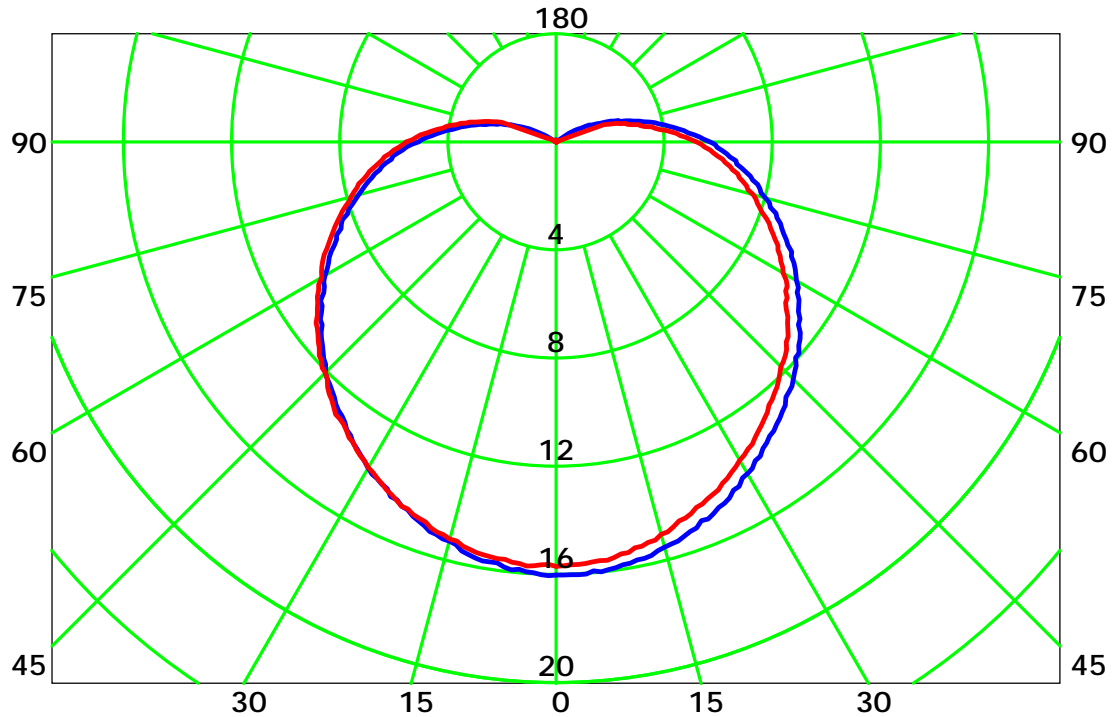
Distance: 9.028 m

Humidity: 60%

Inspector:



Luminous Intensity Distribution Curve

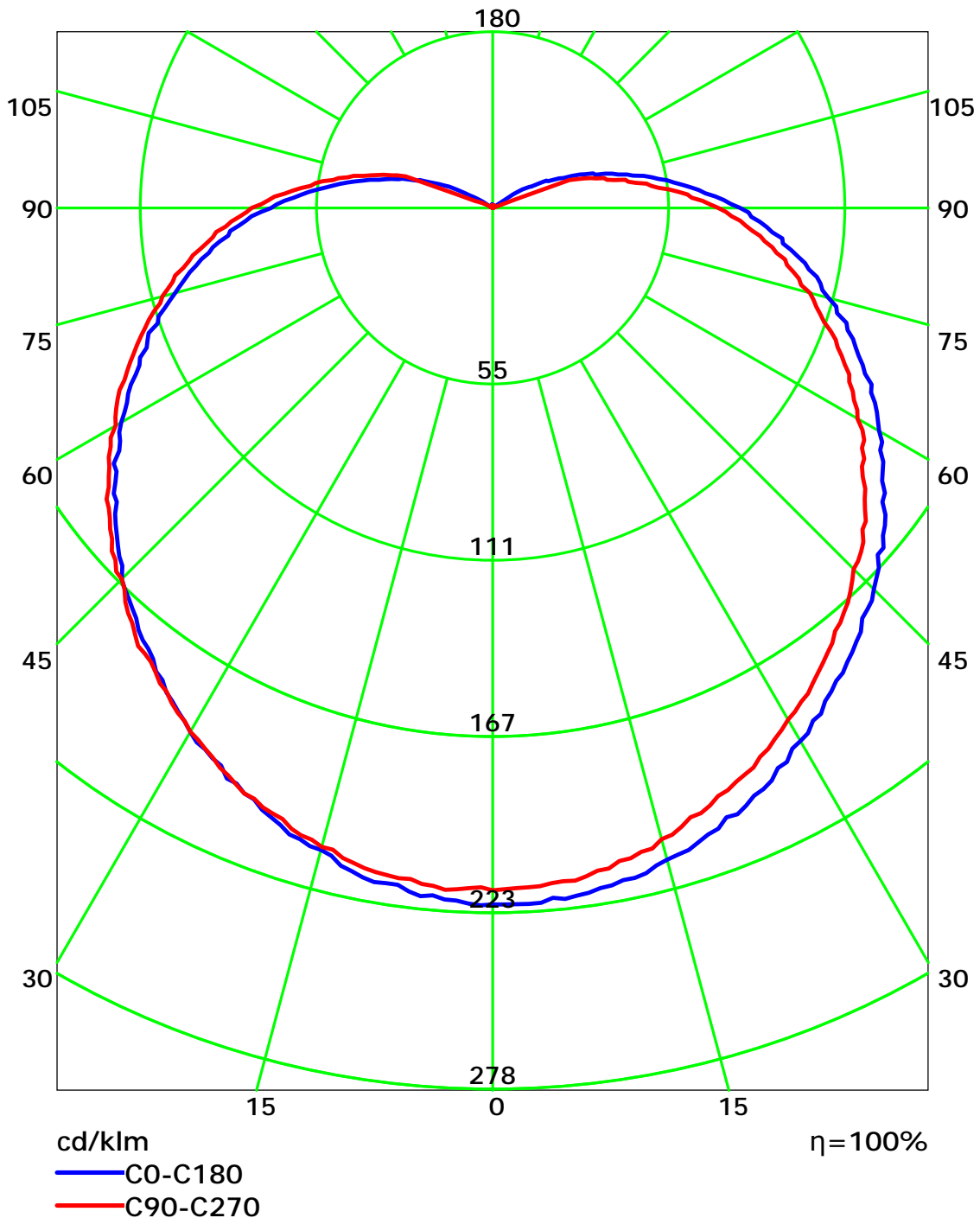


C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25°C
Operator: Roy

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:

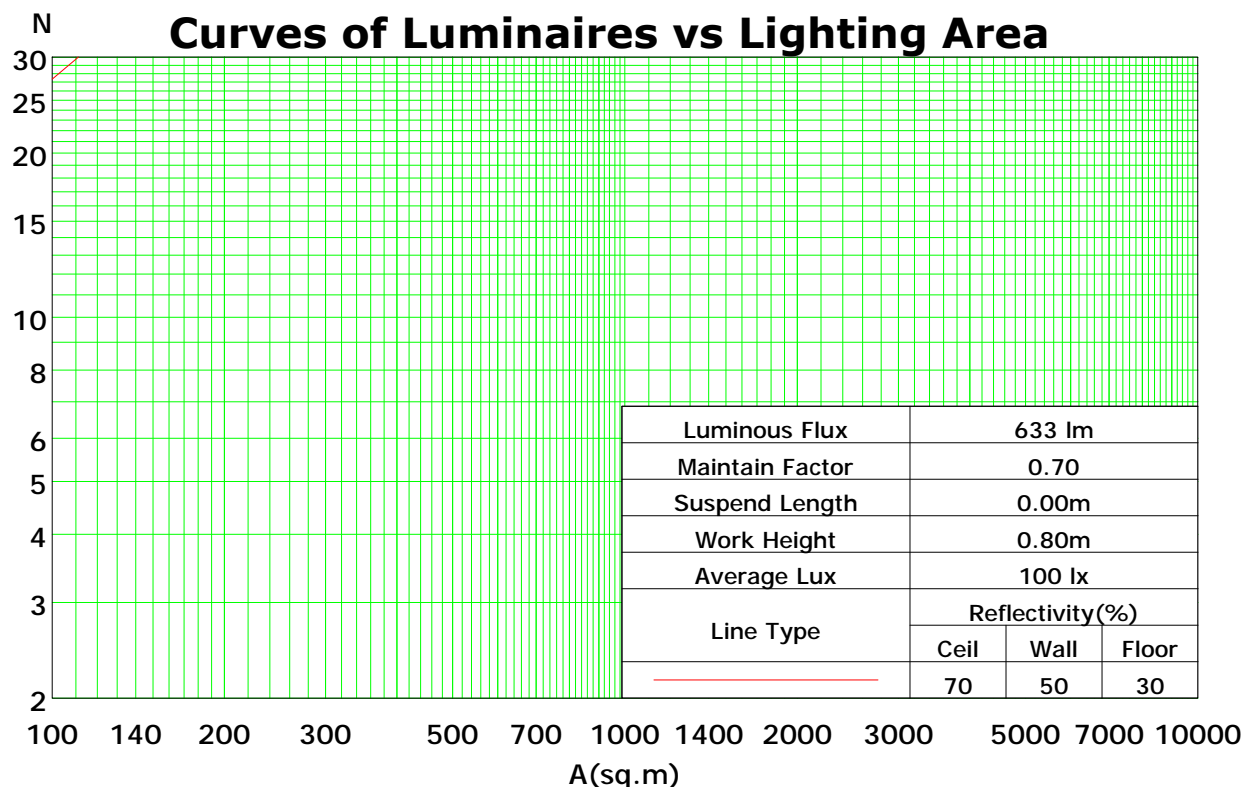
Coefficients Of Utilization - Zonal Cavity Method

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	84	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	78	67	59	52	63	55	49	58	52	47	54	49	44	41
4	75	61	51	44	71	59	50	43	55	47	41	51	44	39	47	42	37	34
5	68	54	44	37	65	52	43	36	49	41	35	45	39	33	42	36	32	29
6	63	49	39	32	60	47	38	31	44	36	30	41	34	29	38	32	28	25
7	58	44	34	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	17	16

Spacing Criteria (0-180): 1.31

Spacing Criteria (90-270): 1.31

Spacing Criteria (Diagonal): 1.46



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

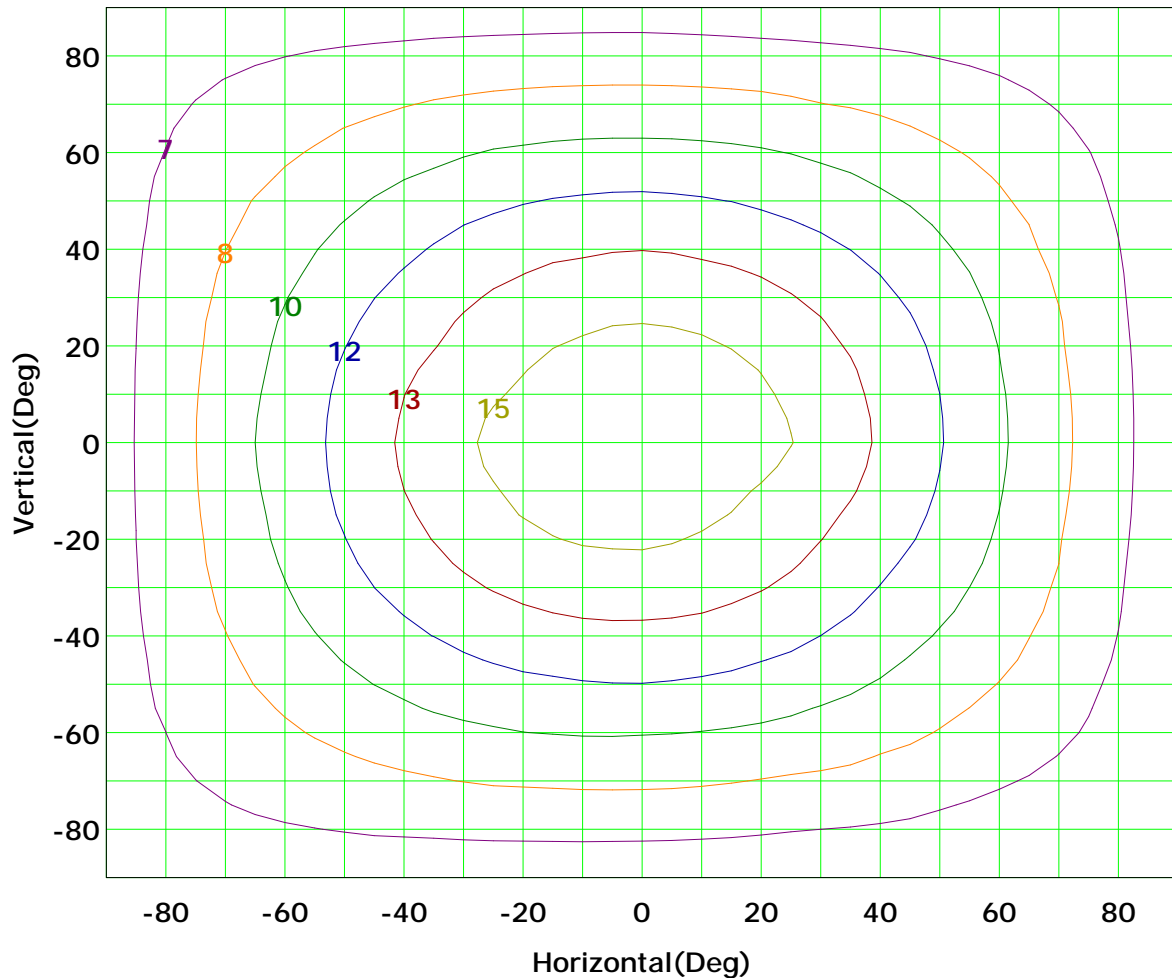
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



I_{max} (100%): 17 cd

(10%):	2 cd	(20%):	3 cd
(25%):	4 cd	(30%):	5 cd
(40%):	7 cd	(50%):	8 cd
(60%):	10 cd	(70%):	12 cd
(80%):	13 cd	(90%):	15 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

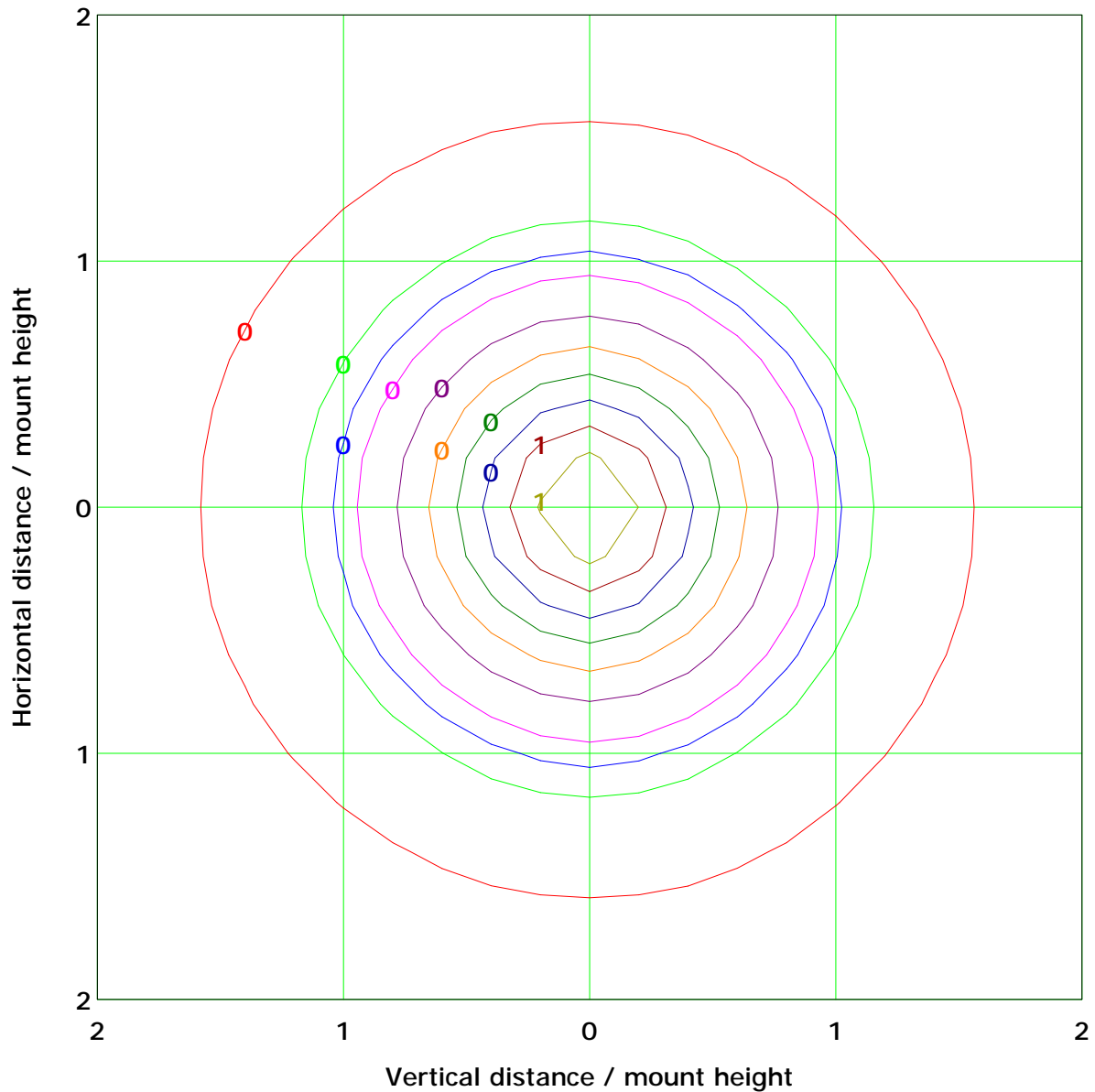
Distance: 9.028 m

Humidity: 60%

Inspector:



IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 0.7 lx

(10%): 0.1 lx	(20%): 0.1 lx
(25%): 0.2 lx	(30%): 0.2 lx
(40%): 0.3 lx	(50%): 0.3 lx
(60%): 0.4 lx	(70%): 0.5 lx
(80%): 0.5 lx	(90%): 0.6 lx

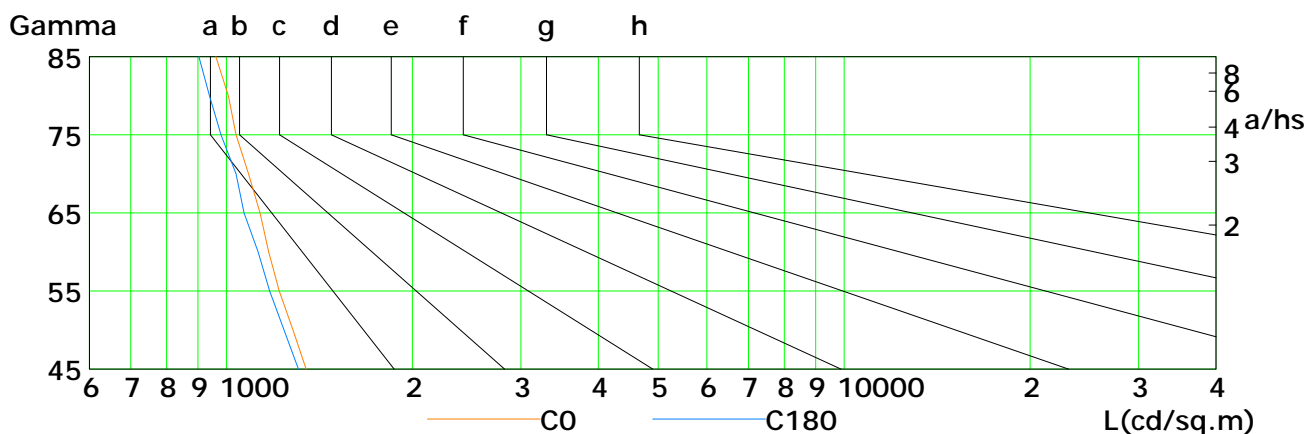
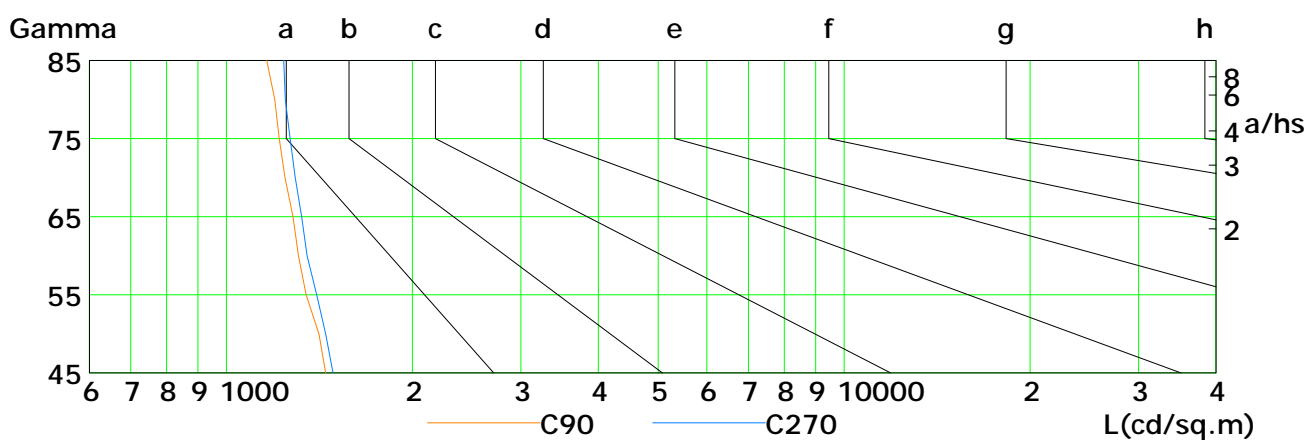
C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25°C
Operator: Roy

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

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	1346	1283	1218	1171	1135	1086	1037	1007	961
C90	1449	1413	1347	1309	1282	1244	1218	1199	1163
C180	1309	1240	1176	1126	1069	1036	981	939	903
C270	1488	1448	1400	1352	1324	1293	1268	1246	1239

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

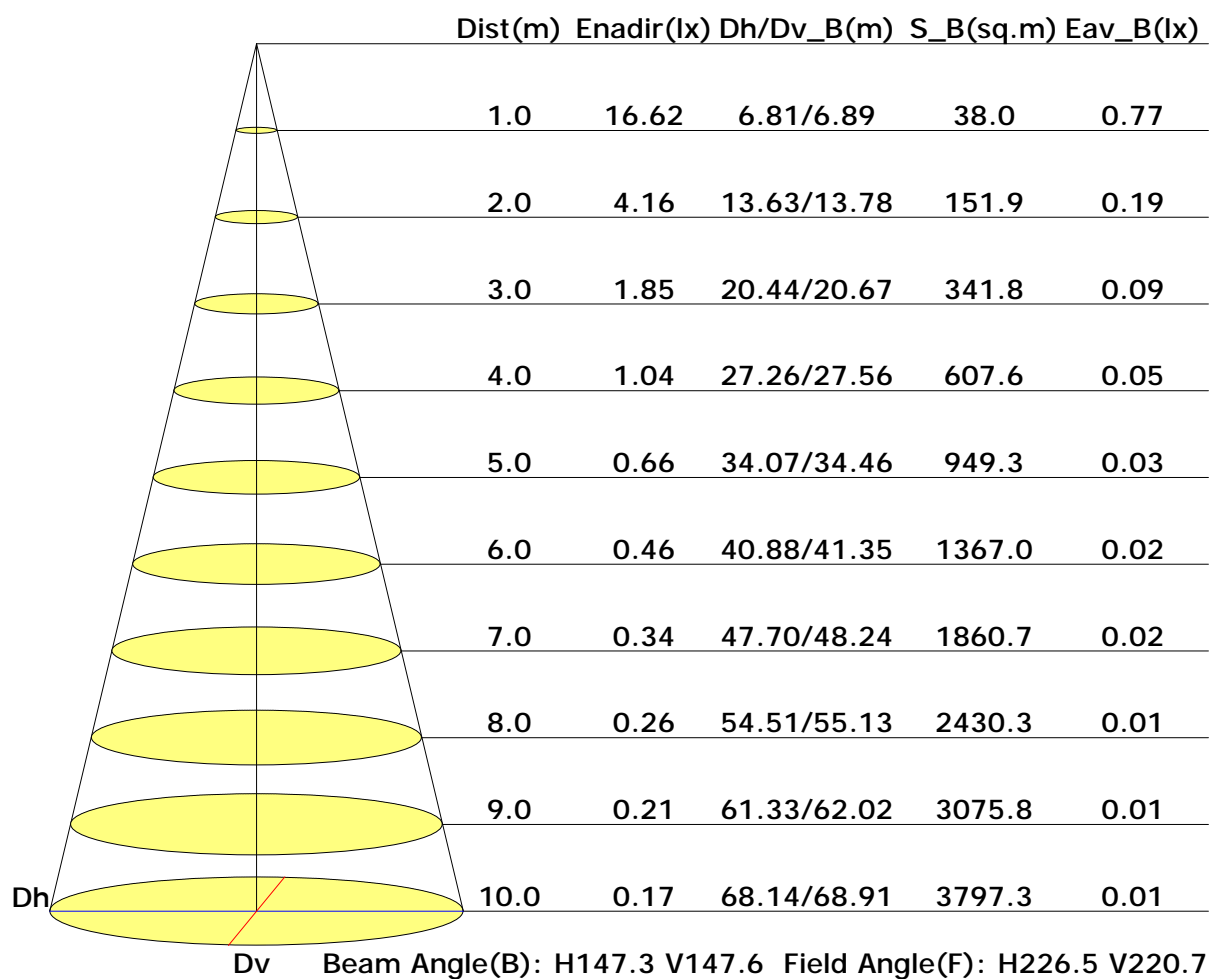
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

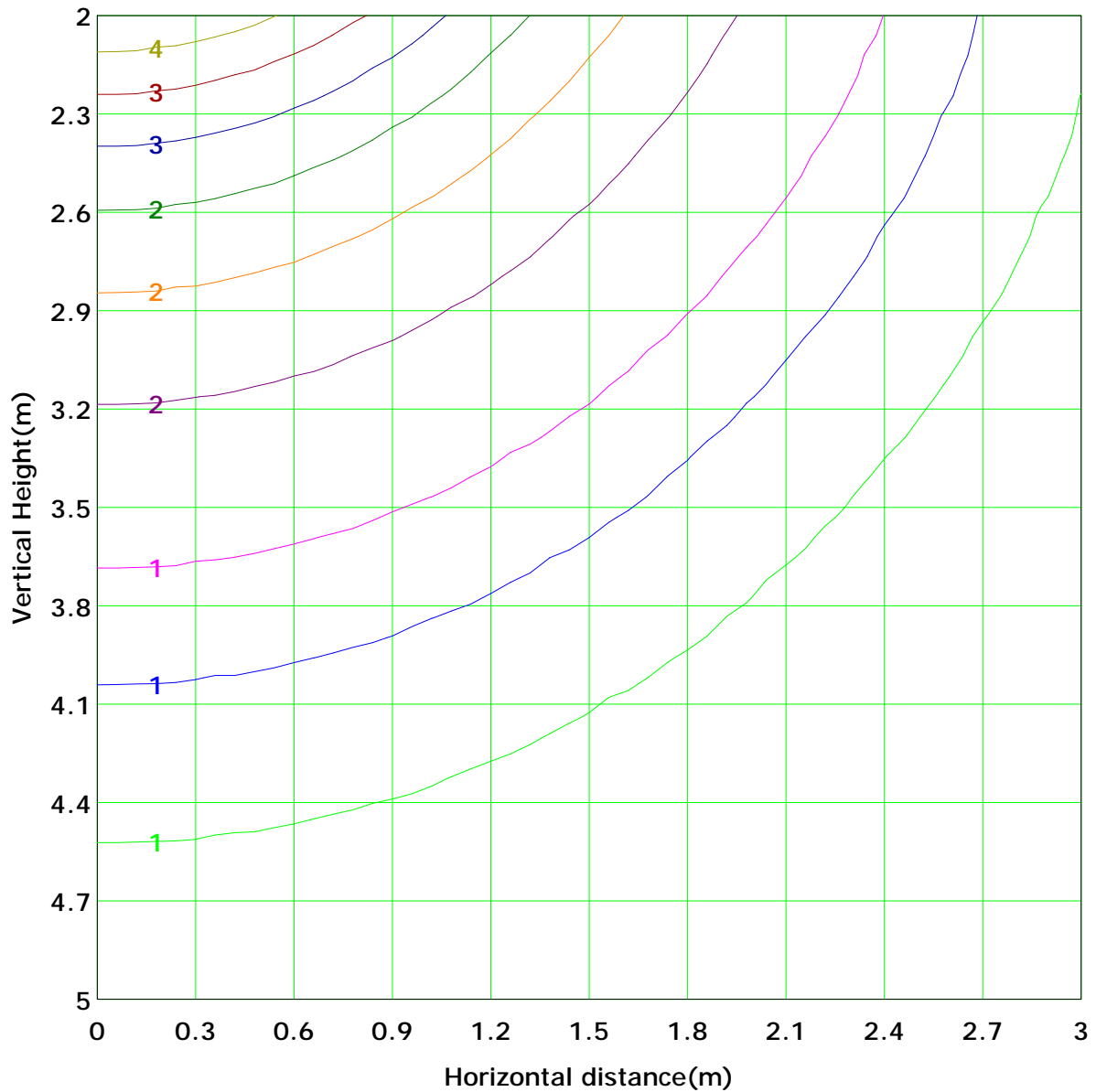
Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 4.2 lx
(10%): 0.4 lx	(20%): 0.8 lx	
(25%): 1.0 lx	(30%): 1.2 lx	
(40%): 1.7 lx	(50%): 2.1 lx	
(60%): 2.5 lx	(70%): 2.9 lx	
(80%): 3.3 lx	(90%): 3.7 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

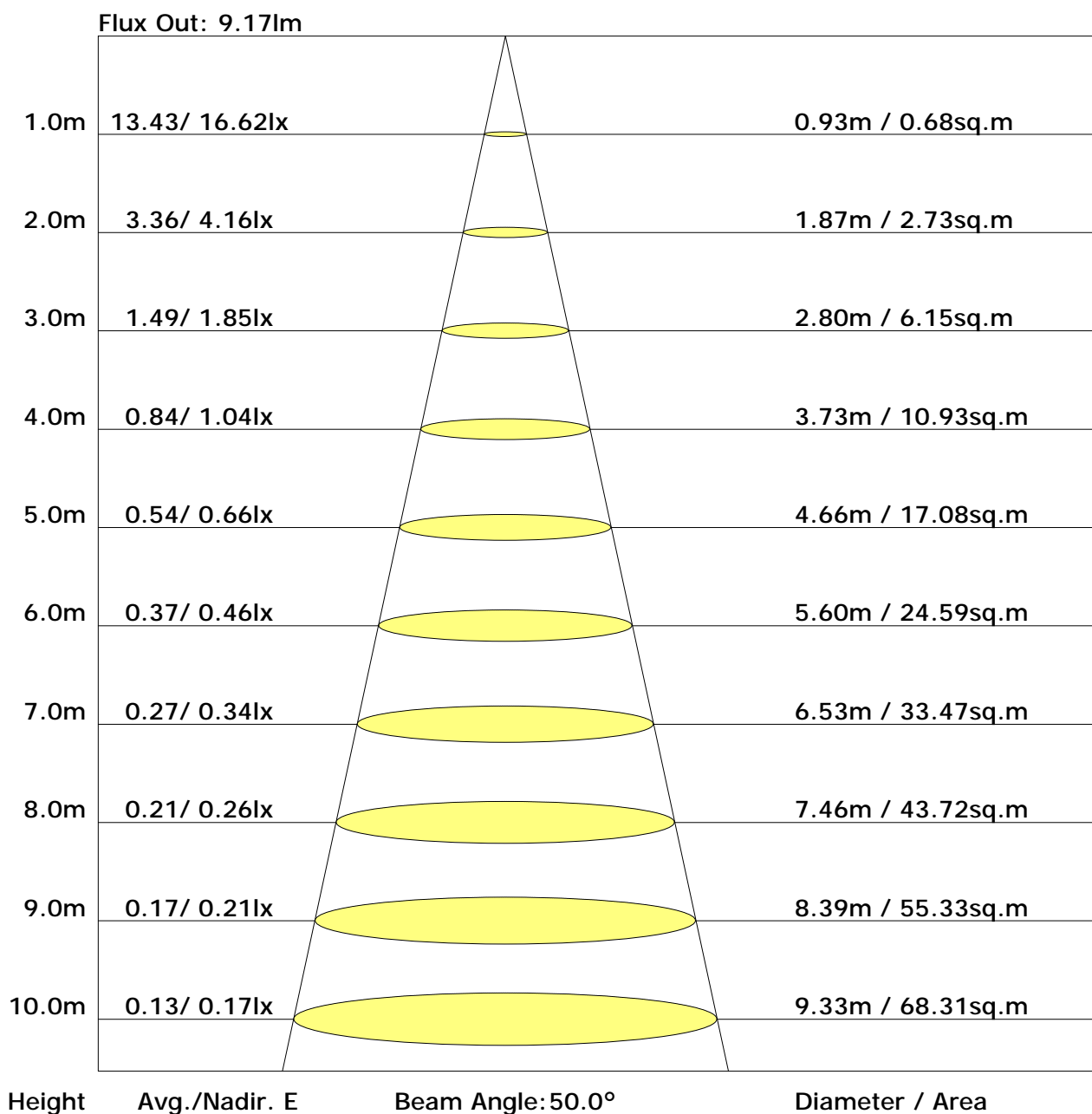
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.3	66
	-80	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	2.1	2.1
	-70	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.0	2.6
	-60	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	3.0
	-50	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	3.4
	-40	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	3.8
	-30	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.1
	-20	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.4
	-10	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.6
	0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	10	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	20	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	30	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	40	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	50	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	60	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	70	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	80	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8
	90	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	4.8

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	21.6	20.6	22.1	22.7
3H	23.1	24.5	23.6	25.0	25.7	22.4	23.8	22.9	24.3	25.0
4H	24.2	25.5	24.8	26.1	26.8	23.4	24.8	24.0	25.3	26.0
6H	25.3	26.6	25.9	27.1	27.8	24.4	25.7	25.0	26.3	26.9
8H	25.8	27.0	26.4	27.6	28.3	24.9	26.1	25.5	26.7	27.4
12H	26.3	27.5	26.9	28.1	28.8	25.3	26.5	25.9	27.1	27.8
X=4H Y=2H	21.3	22.6	21.8	23.2	23.8	20.8	22.1	21.3	22.7	23.3
3H	23.9	25.1	24.5	25.7	26.3	23.3	24.4	23.9	25.1	25.7
4H	25.2	26.3	25.8	26.9	27.6	24.5	25.6	25.1	26.2	26.9
6H	26.5	27.4	27.1	28.1	28.8	25.7	26.6	26.3	27.3	28.0
8H	27.1	28.0	27.7	28.6	29.3	26.2	27.1	26.9	27.8	28.5
12H	27.7	28.5	28.3	29.2	29.9	26.8	27.6	27.4	28.3	29.0
X=8H Y=4H	25.6	26.5	26.2	27.1	27.9	25.0	25.9	25.6	26.5	27.2
6H	27.0	27.8	27.7	28.5	29.2	26.3	27.1	27.0	27.8	28.5
8H	27.8	28.5	28.4	29.2	29.9	27.0	27.7	27.7	28.4	29.1
12H	28.5	29.2	29.2	29.9	30.7	27.7	28.3	28.4	29.0	29.8
X=12H Y=4H	25.7	26.5	26.3	27.2	27.9	25.1	25.9	25.7	26.6	27.3
6H	27.2	27.9	27.9	28.5	29.3	26.5	27.2	27.2	27.9	28.7
8H	28.0	28.6	28.7	29.3	30.1	27.3	27.9	27.9	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	0.70	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	0.77	0.81
	0.30		0.37	0.43	0.49	0.54	0.60	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	0.28	0.34	0.40	0.44	0.50	0.55	0.58	0.63	0.67
<p>Rating:5W 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:5W 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	0.34	0.34	0.34
	0.30		0.22	0.23	0.24	0.25	0.27	0.28	0.29	0.30	0.31
	0.20		0.16	0.18	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	0.33	0.33
	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	0.19	0.20	0.21	0.23	0.24	0.25	0.26
0.30	0.50	0.20	0.27	0.28	0.29	0.30	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:5W 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>											