

Report No.:

Test Time: 2017/11/8 17:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RB244.4RGB30 (G)

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.054 A

Power Factor: 1.000

Luminaire Description: RB244.4RGB30 (G)

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 1.28 W

Photometric Results

CIE Class: Direct

Measurement Flux: 63.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H127.4

Vertical Diffuse Angle(50%): V127.3

Luminaire Efficacy Rating (LER): 49

Max. Intensity: 19.04 cd

Total Rated Lamp Lumens: 63.2 lm

Efficiency: 100%

Upward Ratio: 0%

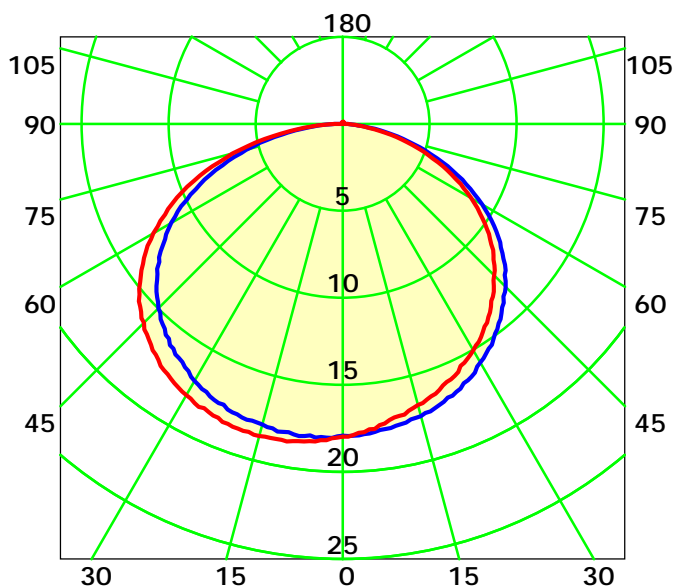
Central Intensity: 18.27 cd

Pos of Max. Intensity: H240 V18

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 127.3° 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: Aaron

Gamma Plane (°):0.0-180.0: 1.0

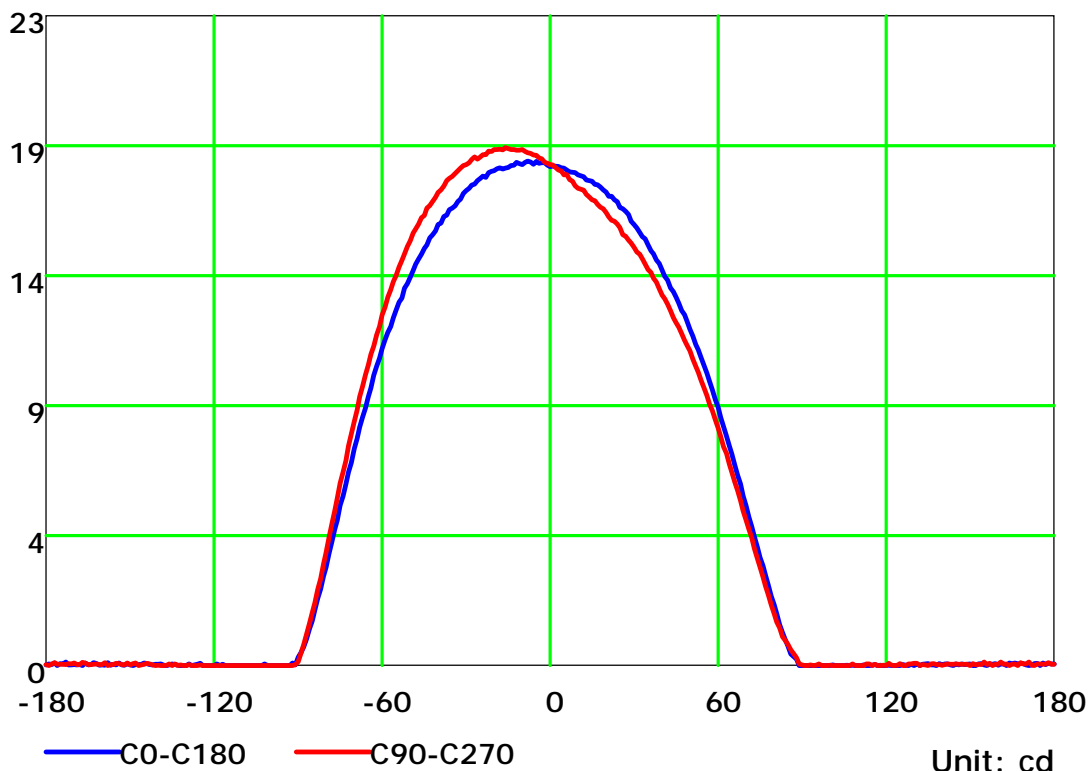
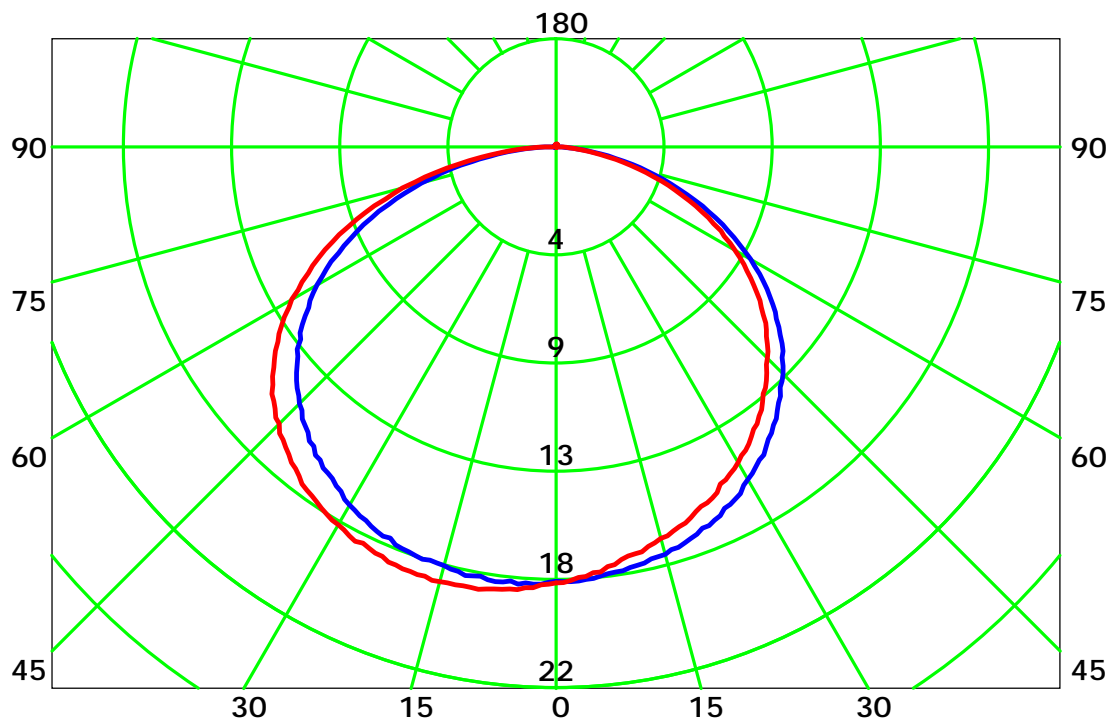
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

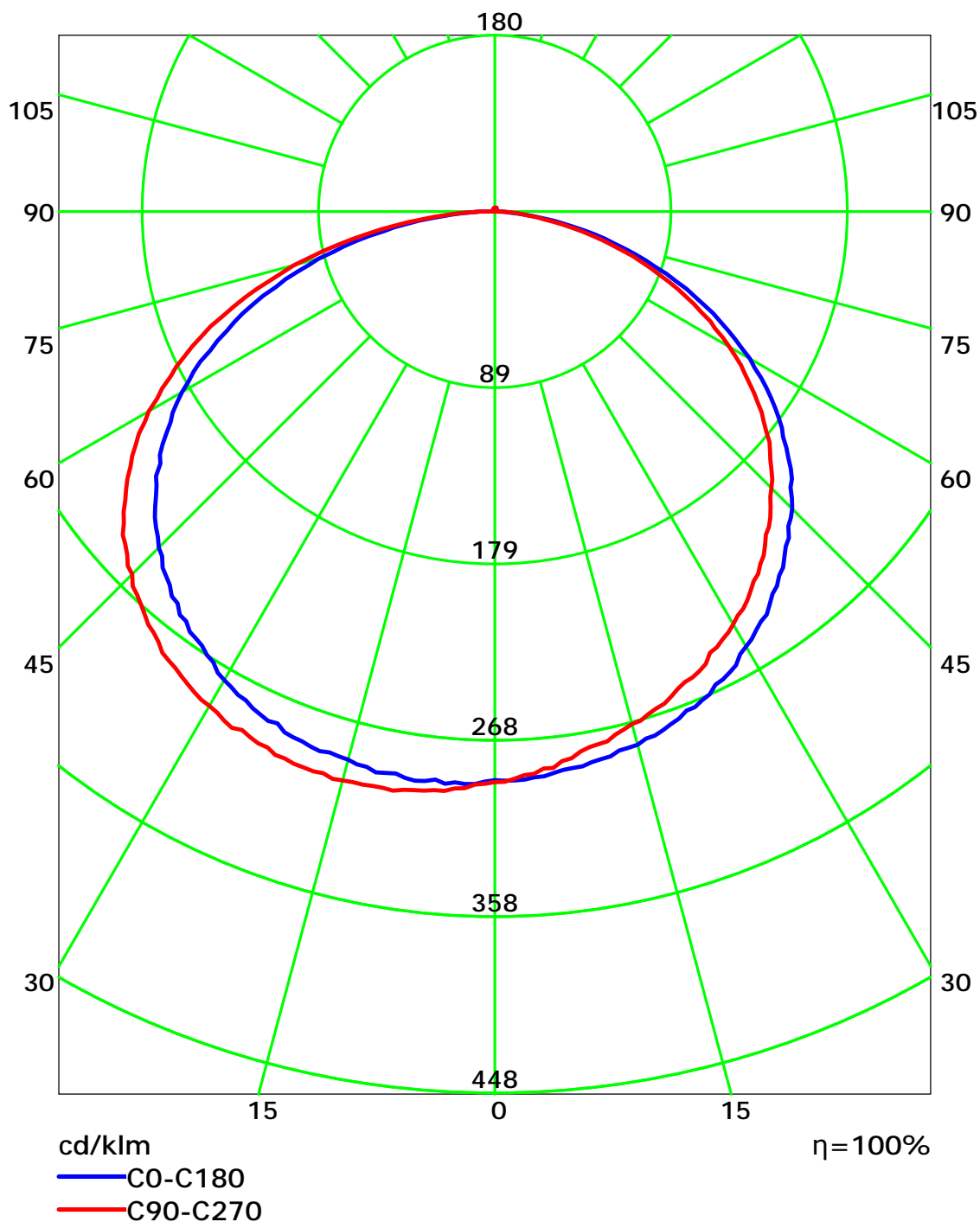
Luminous Intensity Distribution Curve



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

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: Aaron

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

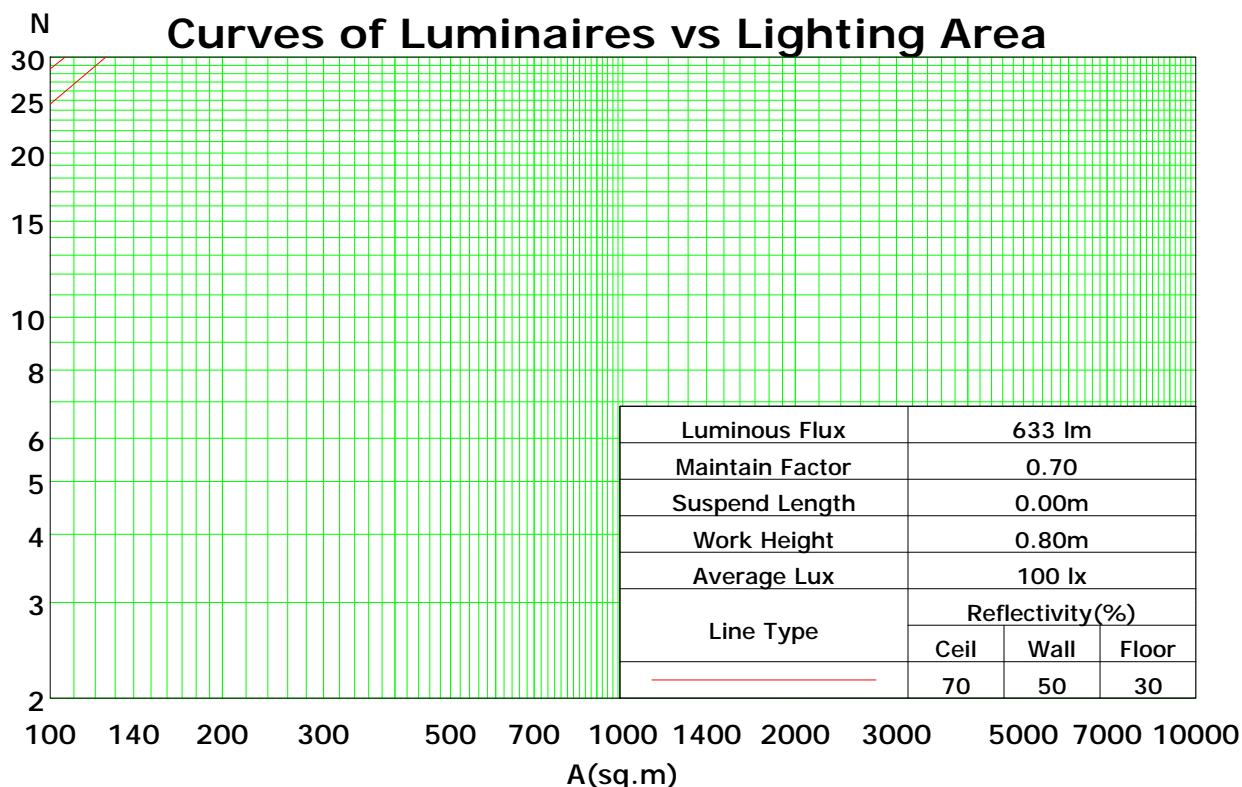
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	59	52	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

Spacing Criteria (0-180): 1.36

Spacing Criteria (90-270): 1.37

Spacing Criteria (Diagonal): 1.51



C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

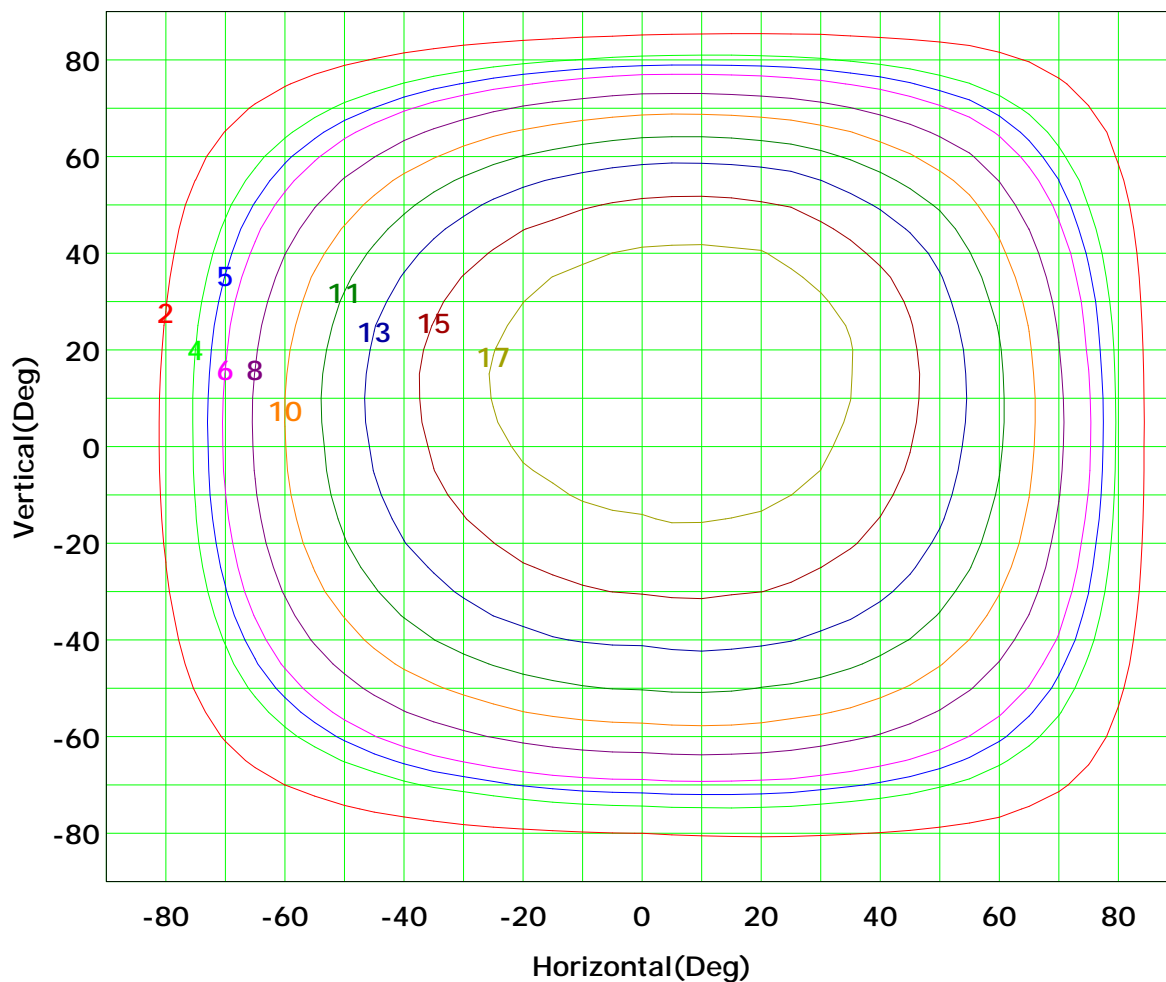
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 19 cd

(10%):	2 cd	(20%):	4 cd
(25%):	5 cd	(30%):	6 cd
(40%):	8 cd	(50%):	10 cd
(60%):	11 cd	(70%):	13 cd
(80%):	15 cd	(90%):	17 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25℃

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

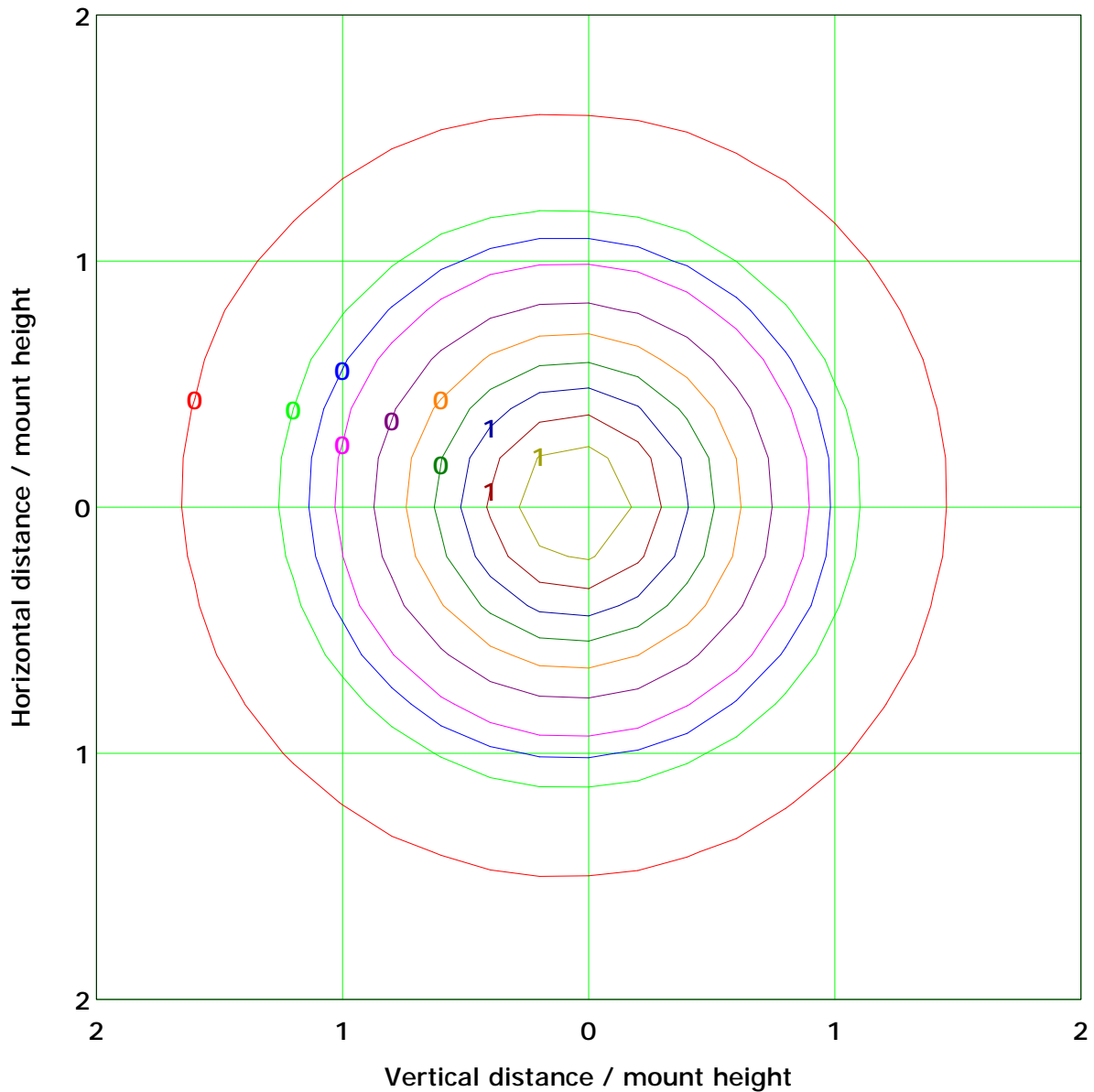
Test Device: GPM-1800B

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%): 0.4 lx
(60%): 0.4 lx	(70%): 0.5 lx
(80%): 0.6 lx	(90%): 0.7 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

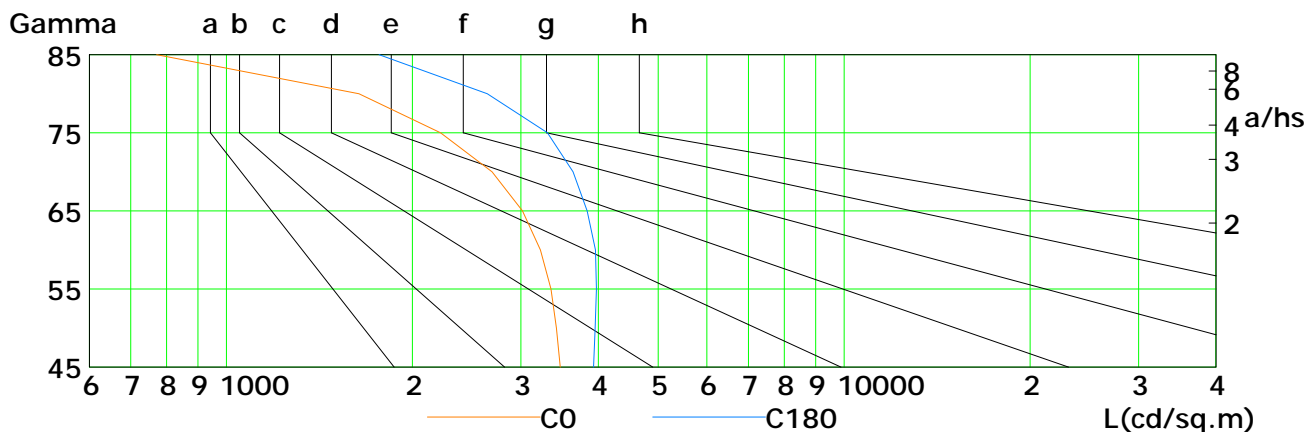
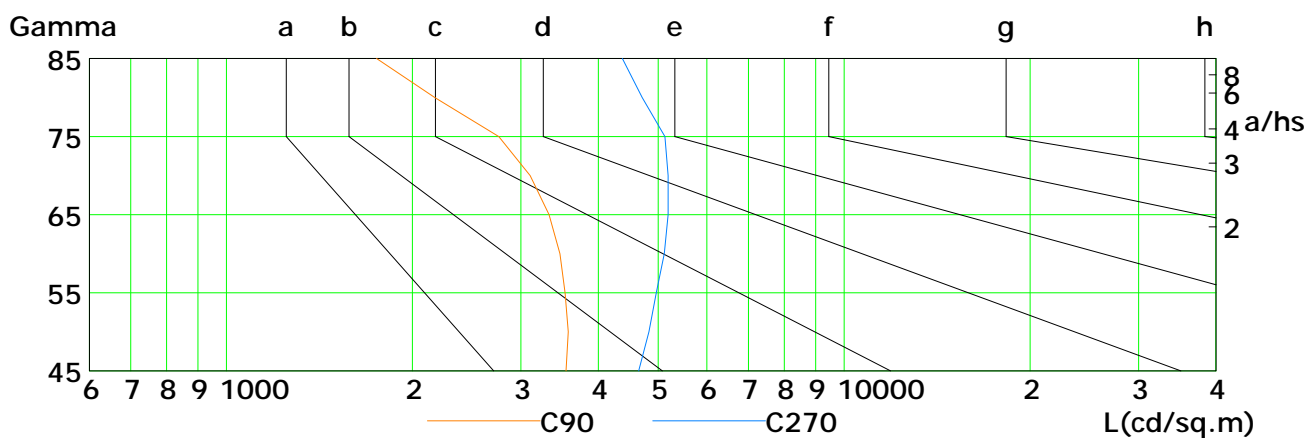
Humidity: 60%

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	3474	3422	3353	3225	3016	2693	2223	1639	771
C90	3548	3576	3536	3468	3332	3106	2761	2175	1750
C180	3929	3953	3976	3958	3838	3642	3309	2646	1767
C270	4652	4830	4969	5118	5188	5193	5131	4715	4375

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25℃

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

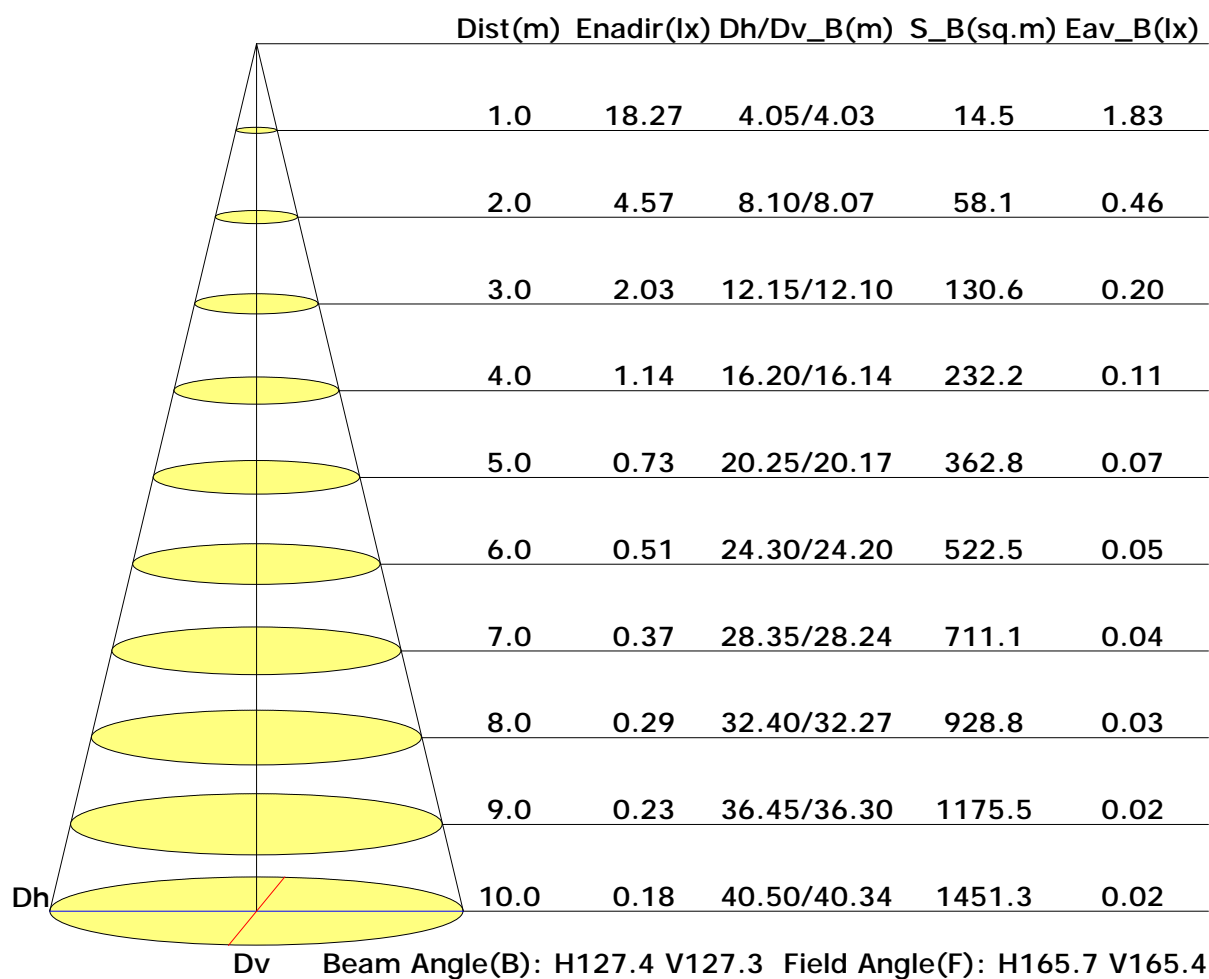
Test Device: GPM-1800B

Distance: 9.028 m

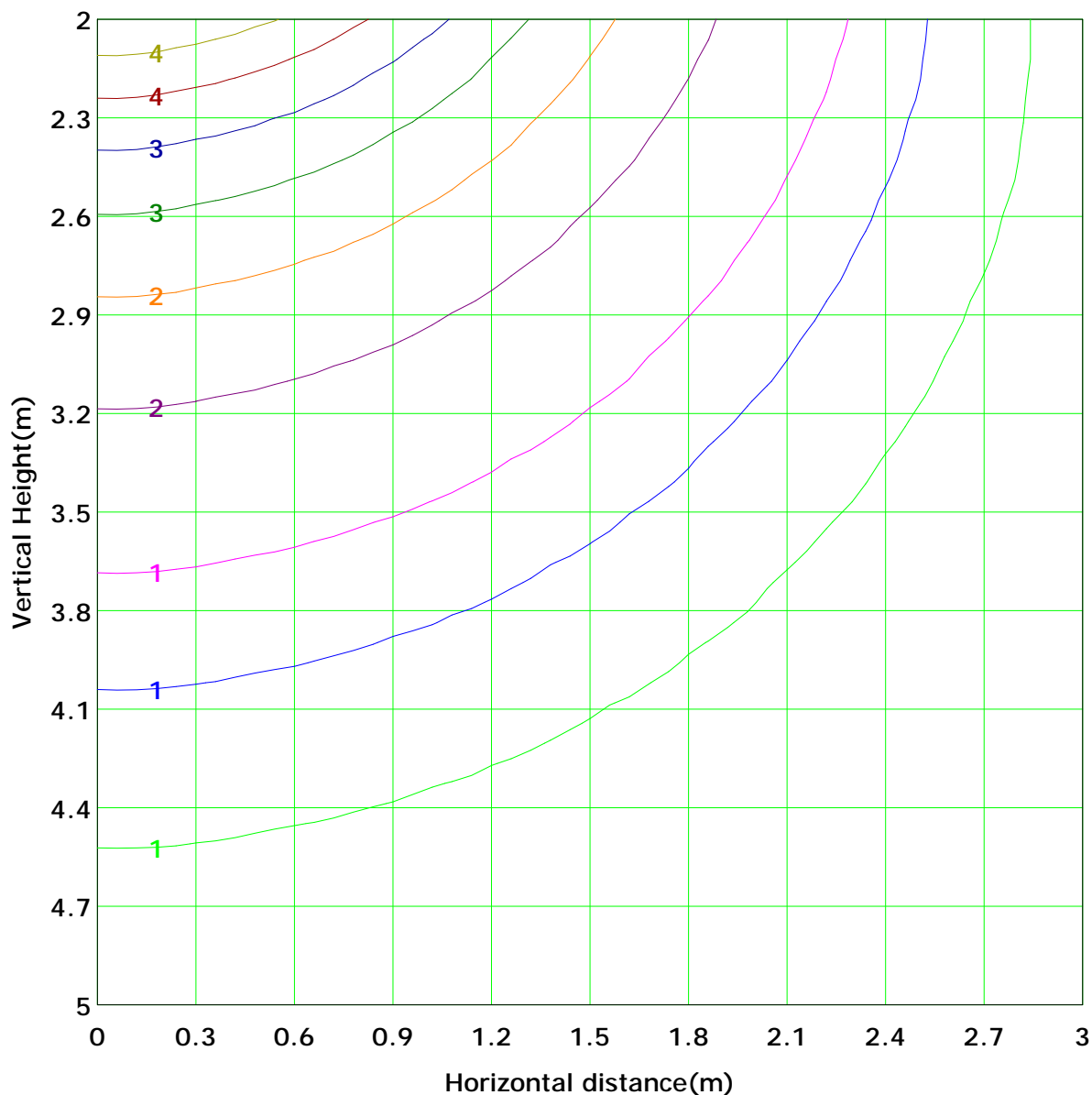
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 4.6 lx
(10%): 0.5 lx	(20%): 0.9 lx	(30%): 1.4 lx
(25%): 1.1 lx	(50%): 2.3 lx	(70%): 3.2 lx
(40%): 1.8 lx	(90%): 4.1 lx	
(60%): 2.7 lx		
(80%): 3.7 lx		

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

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

Area Flux Table

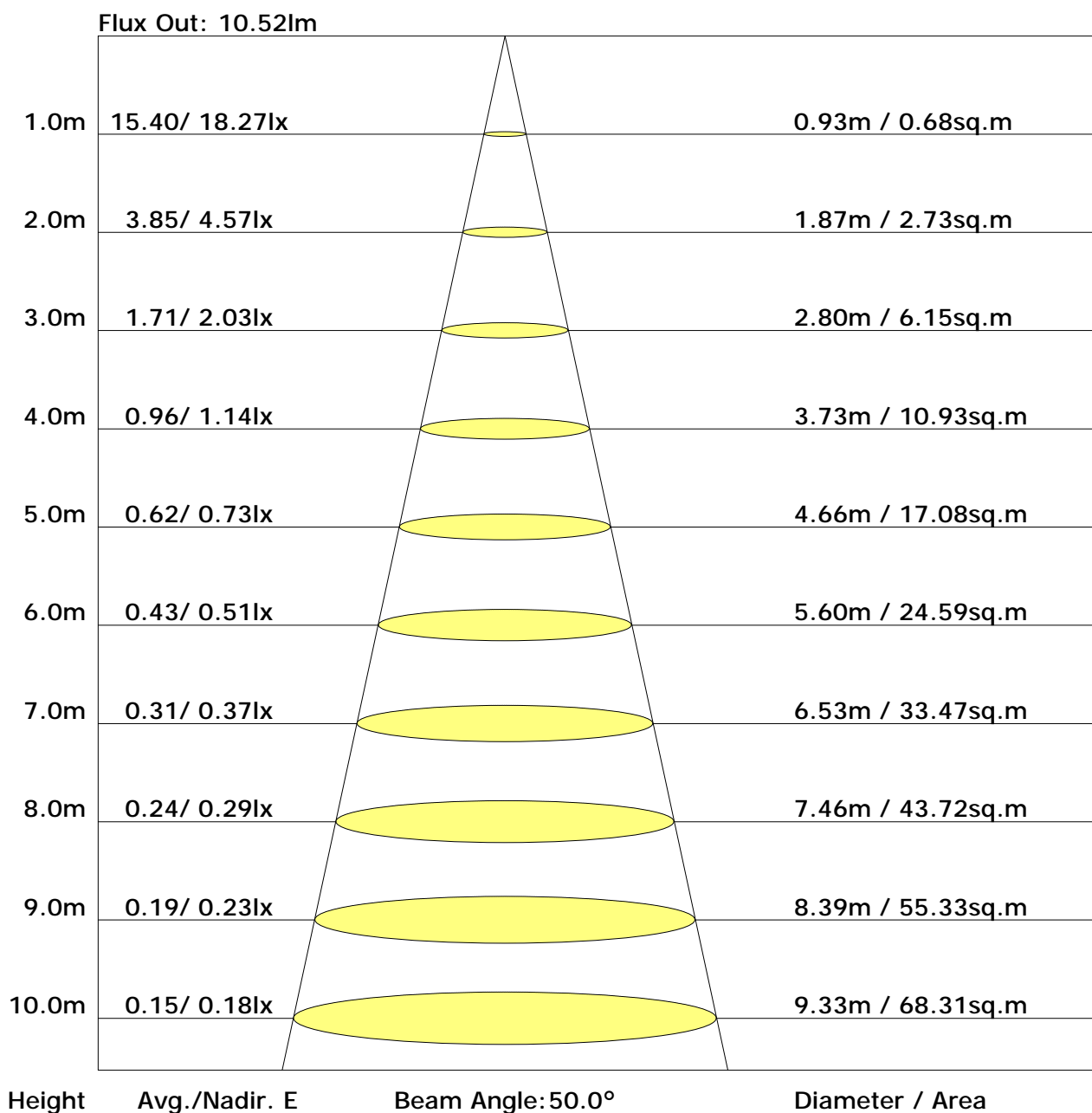
Unit: lm

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	-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	0.5	0.0
	-70	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	1.5	0.5
	-60	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	2.7	1.4
	-50	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	3.9	2.6
	-40	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.1	3.9
	-30	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	6.0	5.0
	-20	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	6.6	6.0
	-10	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	6.6	6.6
	0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	6.8	6.8
	10	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	6.7	6.7
	20	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	6.2	6.2
	30	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	5.5	5.5
	40	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
	50	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
	60	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
	70	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0
	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	0.3	0.3
	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	0.0	0.0
	Flux(T)	0.1	0.5	1.5	2.7	3.9	5.1	6.0	6.6	6.6	6.7	6.2	5.5	4.5	3.3	2.1	1.0	0.3	0.0	0.0	63	62
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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	26.2	27.9	26.6	28.3	28.6	25.4	27.1	25.7	27.4	27.7
3H	28.1	29.6	28.4	29.9	30.3	27.0	28.6	27.4	28.9	29.3
4H	28.7	30.2	29.1	30.5	30.9	27.6	29.0	28.0	29.4	29.8
6H	29.1	30.5	29.5	30.8	31.2	27.9	29.3	28.3	29.6	30.0
8H	29.2	30.5	29.7	30.9	31.3	28.0	29.3	28.4	29.7	30.1
12H	29.3	30.5	29.7	30.9	31.3	28.0	29.2	28.4	29.6	30.1
X=4H Y=2H	26.9	28.4	27.3	28.7	29.1	26.1	27.6	26.5	27.9	28.3
3H	28.9	30.2	29.3	30.6	31.0	28.0	29.2	28.4	29.6	30.0
4H	29.7	30.8	30.1	31.2	31.7	28.6	29.8	29.1	30.2	30.6
6H	30.2	31.2	30.7	31.6	32.1	29.0	30.0	29.5	30.5	30.9
8H	30.3	31.3	30.8	31.7	32.2	29.1	30.1	29.6	30.5	31.0
12H	30.4	31.2	30.9	31.7	32.2	29.2	30.0	29.7	30.5	31.0
X=8H Y=4H	30.0	30.9	30.5	31.4	31.8	29.0	29.9	29.5	30.4	30.8
6H	30.6	31.4	31.1	31.9	32.3	29.5	30.3	30.0	30.8	31.2
8H	30.8	31.5	31.3	32.0	32.5	29.6	30.3	30.1	30.8	31.3
12H	30.9	31.5	31.4	32.0	32.6	29.7	30.3	30.2	30.8	31.4
X=12H Y=4H	30.0	30.9	30.5	31.3	31.8	29.1	29.9	29.5	30.4	30.8
6H	30.7	31.4	31.2	31.8	32.4	29.6	30.3	30.1	30.7	31.3
8H	30.9	31.5	31.4	32.0	32.5	29.7	30.3	30.2	30.8	31.4

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: Aaron

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	0.56	0.65	0.73	0.78	0.86	0.91	0.95	0.99	1.03
	0.30		0.48	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.99
	0.20		0.42	0.51	0.59	0.65	0.74	0.80	0.85	0.91	0.95
0.50	0.50	0.20	0.54	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98
	0.30		0.47	0.55	0.63	0.69	0.77	0.82	0.86	0.92	0.95
	0.20		0.42	0.50	0.58	0.64	0.72	0.78	0.82	0.88	0.92
0.30	0.50	0.20	0.53	0.61	0.68	0.73	0.80	0.84	0.87	0.92	0.94
	0.30		0.47	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92
	0.20		0.42	0.49	0.57	0.63	0.71	0.76	0.80	0.86	0.89
0.00	0.00	0.00	0.40	0.47	0.54	0.60	0.67	0.72	0.76	0.81	0.85
<p>Rating: 1W 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	1.01	0.86	0.73	0.64	0.51	0.42	0.36	0.28	0.23	
	0.30		0.84	0.74	0.64	0.56	0.46	0.39	0.34	0.27	0.22	
	0.20		0.72	0.64	0.56	0.51	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.83	0.70	0.61	0.49	0.44	0.35	0.27	0.22	
	0.30		0.82	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.71	0.63	0.55	0.50	0.41	0.35	0.31	0.24	0.20	
0.30	0.50	0.20	0.94	0.80	0.67	0.59	0.47	0.39	0.33	0.26	0.21	
	0.30		0.81	0.70	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.63	0.55	0.49	0.40	0.34	0.30	0.24	0.19	
0.00	0.00	0.00	0.60	0.53	0.45	0.40	0.33	0.27	0.24	0.19	0.15	
<p>Rating: 1W 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	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.16	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<p>Rating: 1W 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>											