

Report No.:

Test Time: 2018/4/18 15:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGBW (ALL)

Luminaire Description: DMX RIBBONLYTE RGBW (ALL)

Luminous Length (mm): 1000

Luminous Width (mm): 18

Luminous Height (mm): 6

Voltage: 24.0 V

Current: 0.733 A

Power: 17.59 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 537.4 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H123.8

Vertical Diffuse Angle(50%): V116.3

Luminaire Efficacy Rating (LER): 31

Max. Intensity: 157.81 cd

Total Rated Lamp Lumens: 537.4 lm

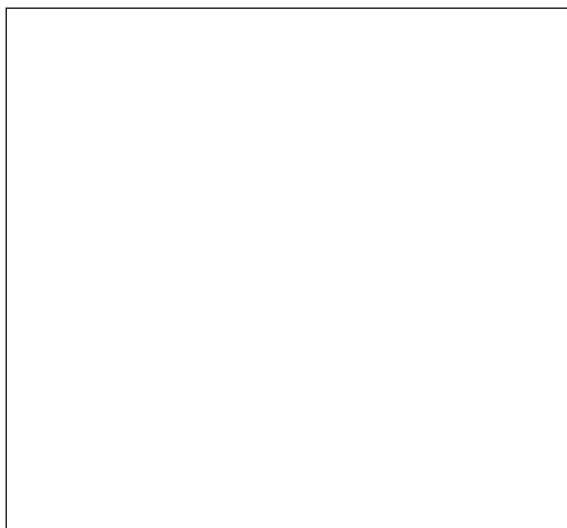
Efficiency: 100%

Upward Ratio: 8%

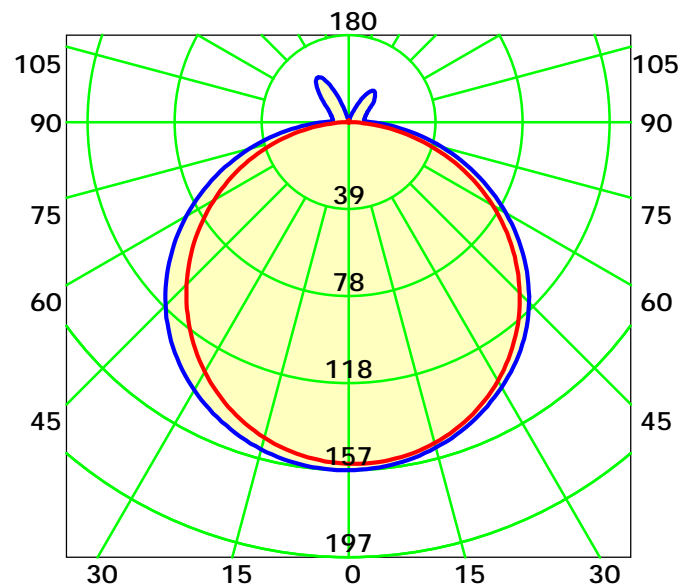
Central Intensity: 157.81 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 120.1° Unit: cd

— C0-C180 — C90-C270

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

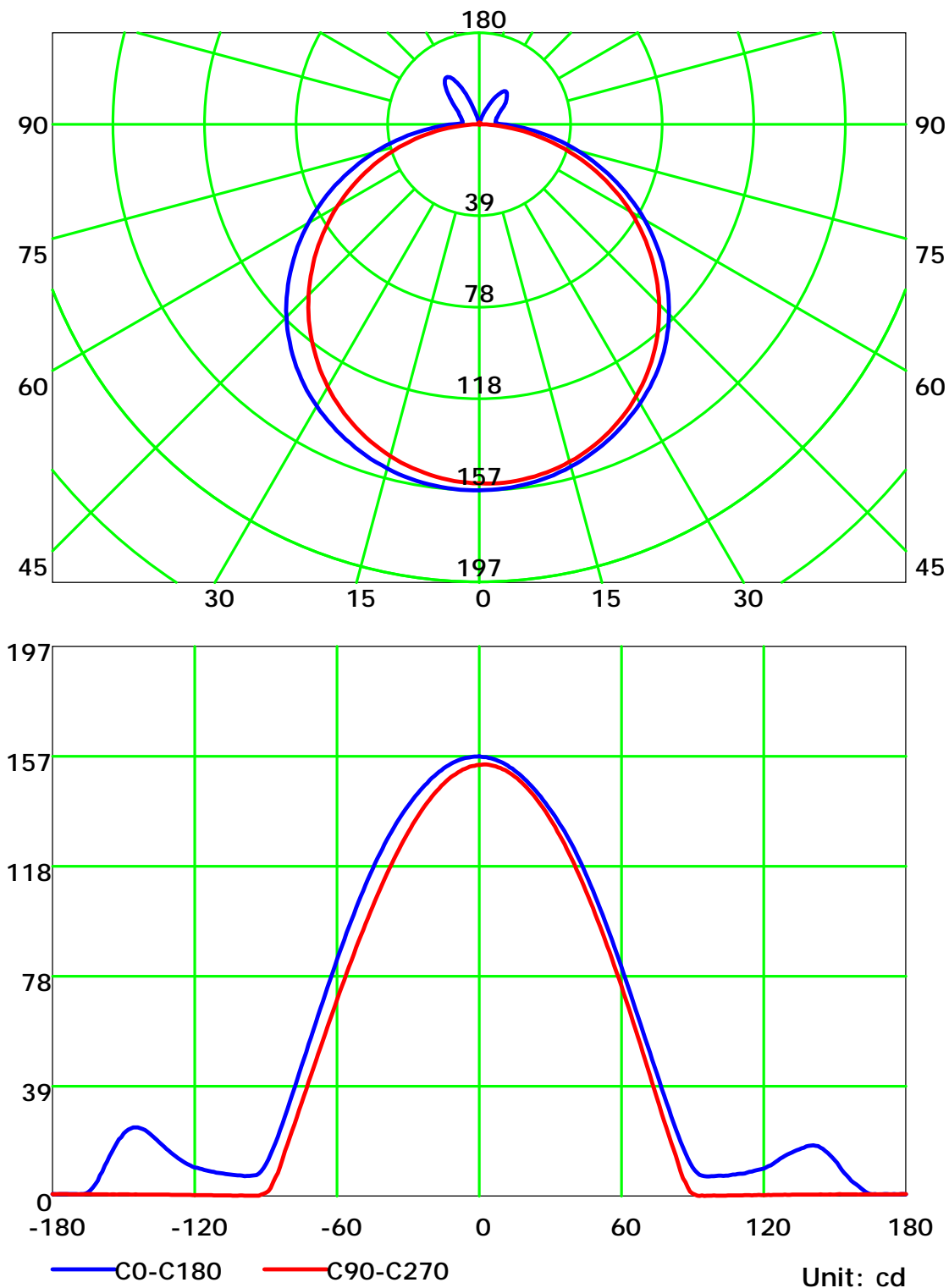
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

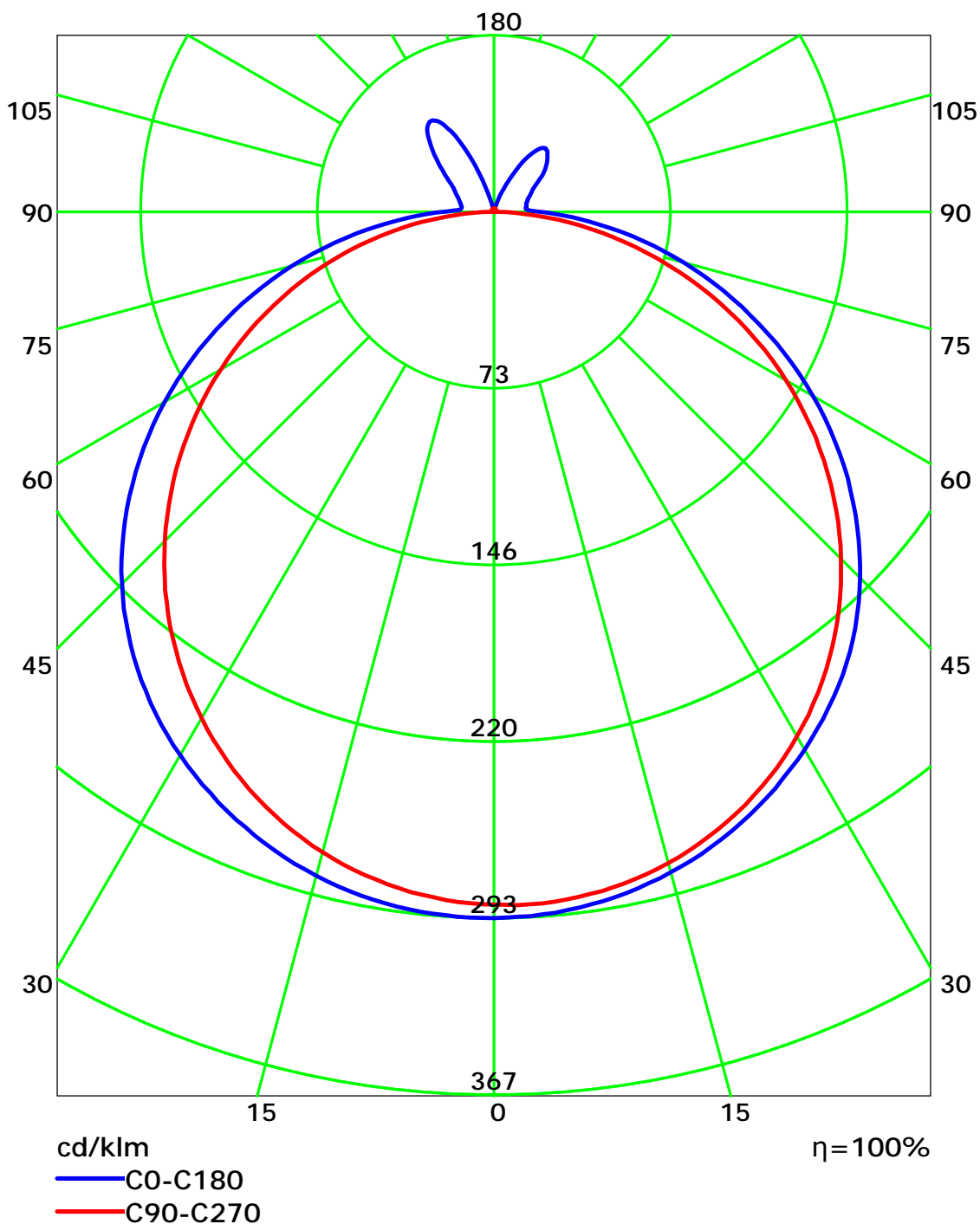
Luminous Intensity Distribution Curve



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:

Luminous Intensity Distribution Curve(cd/klm)



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:

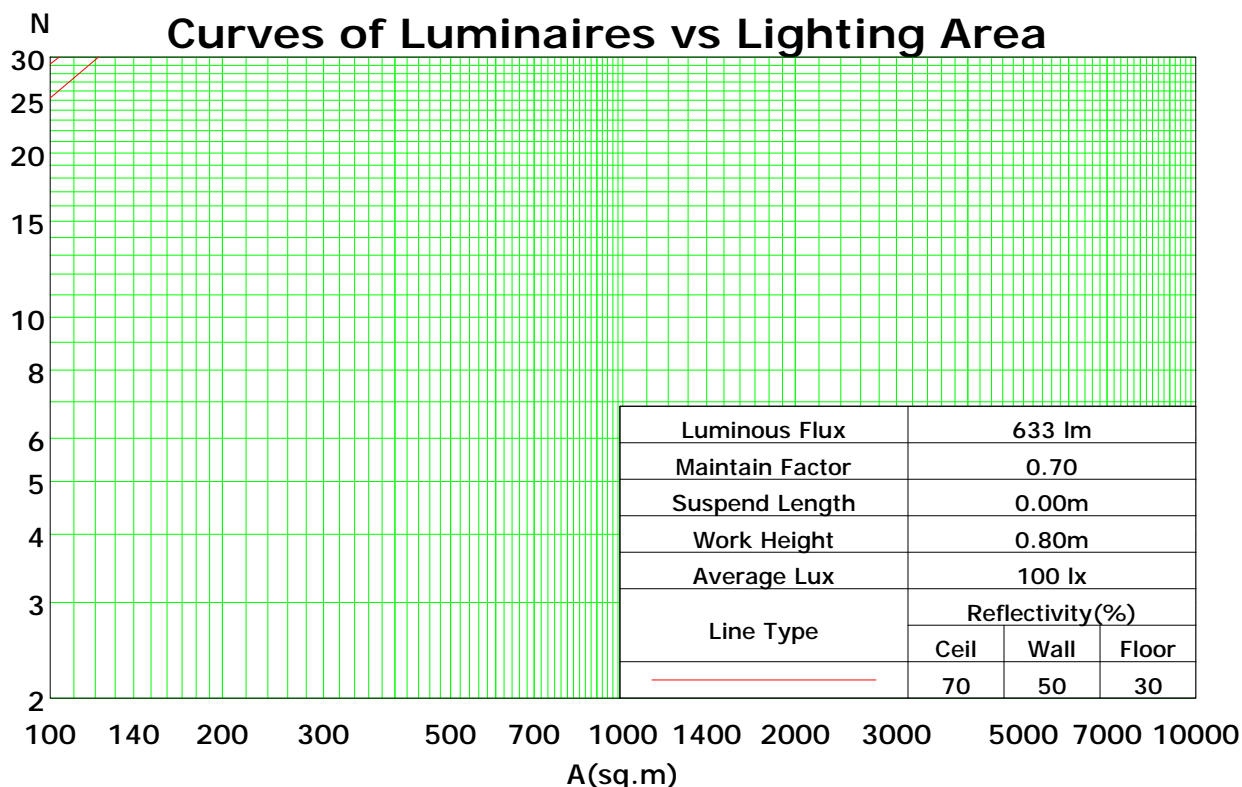
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	114	114	114	114	107	107	107	100	100	100	95	95	95	92
1	106	101	96	92	102	98	94	90	92	89	85	87	84	81	82	80	78	75
2	96	87	80	74	92	85	78	72	80	74	70	75	71	67	71	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	56	62	58	54	51
4	79	67	58	51	77	65	57	50	62	54	49	58	52	47	55	50	46	43
5	73	60	51	44	70	58	50	43	55	48	42	52	46	41	50	44	40	37
6	67	54	44	38	65	52	44	37	50	42	36	47	41	36	45	39	35	32
7	62	48	40	33	60	47	39	33	45	38	32	43	36	31	41	35	31	28
8	58	44	35	30	56	43	35	29	41	34	29	39	33	28	37	32	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

Spacing Criteria (0-180): 1.32

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.41



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

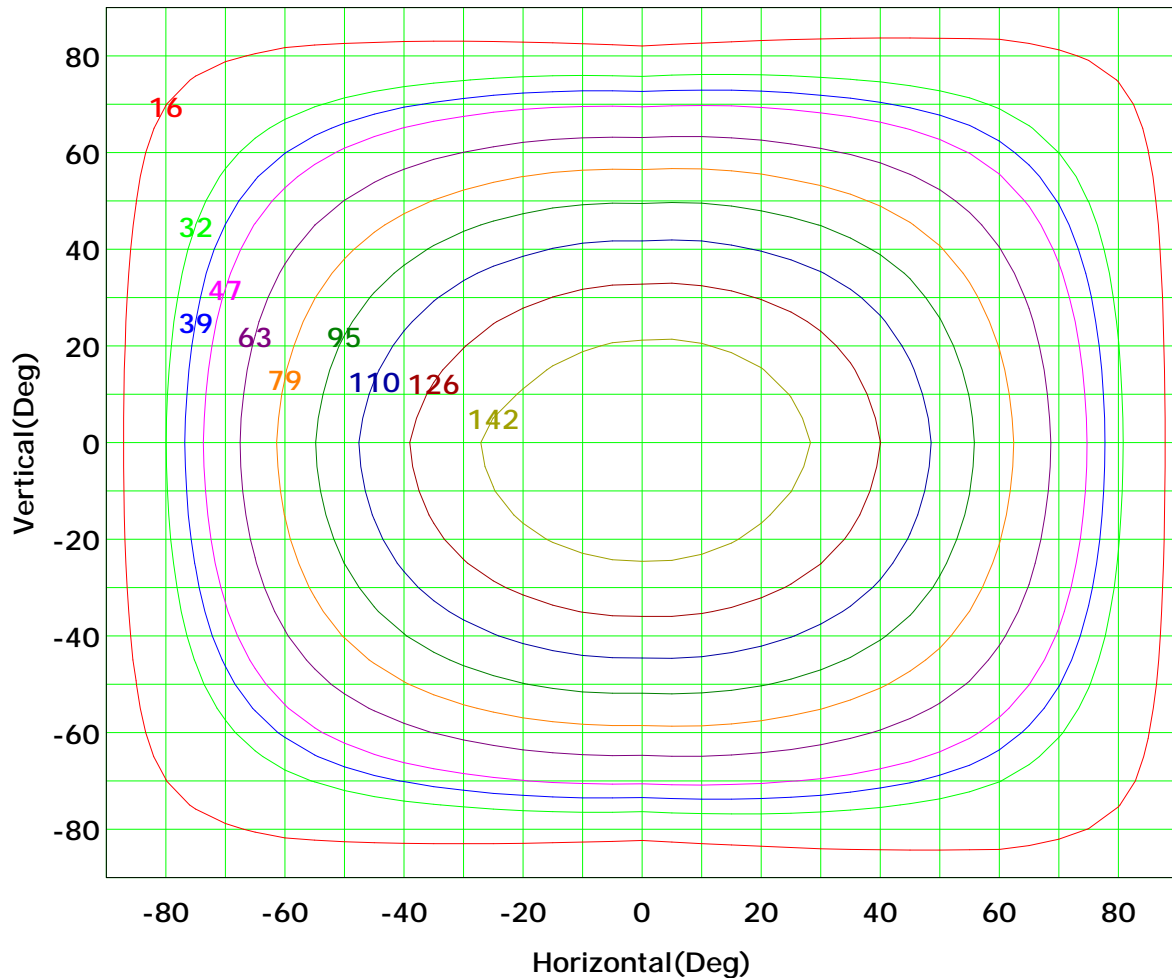
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 158 cd

(10%): 16 cd	(20%): 32 cd
(25%): 39 cd	(30%): 47 cd
(40%): 63 cd	(50%): 79 cd
(60%): 95 cd	(70%): 110 cd
(80%): 126 cd	(90%): 142 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

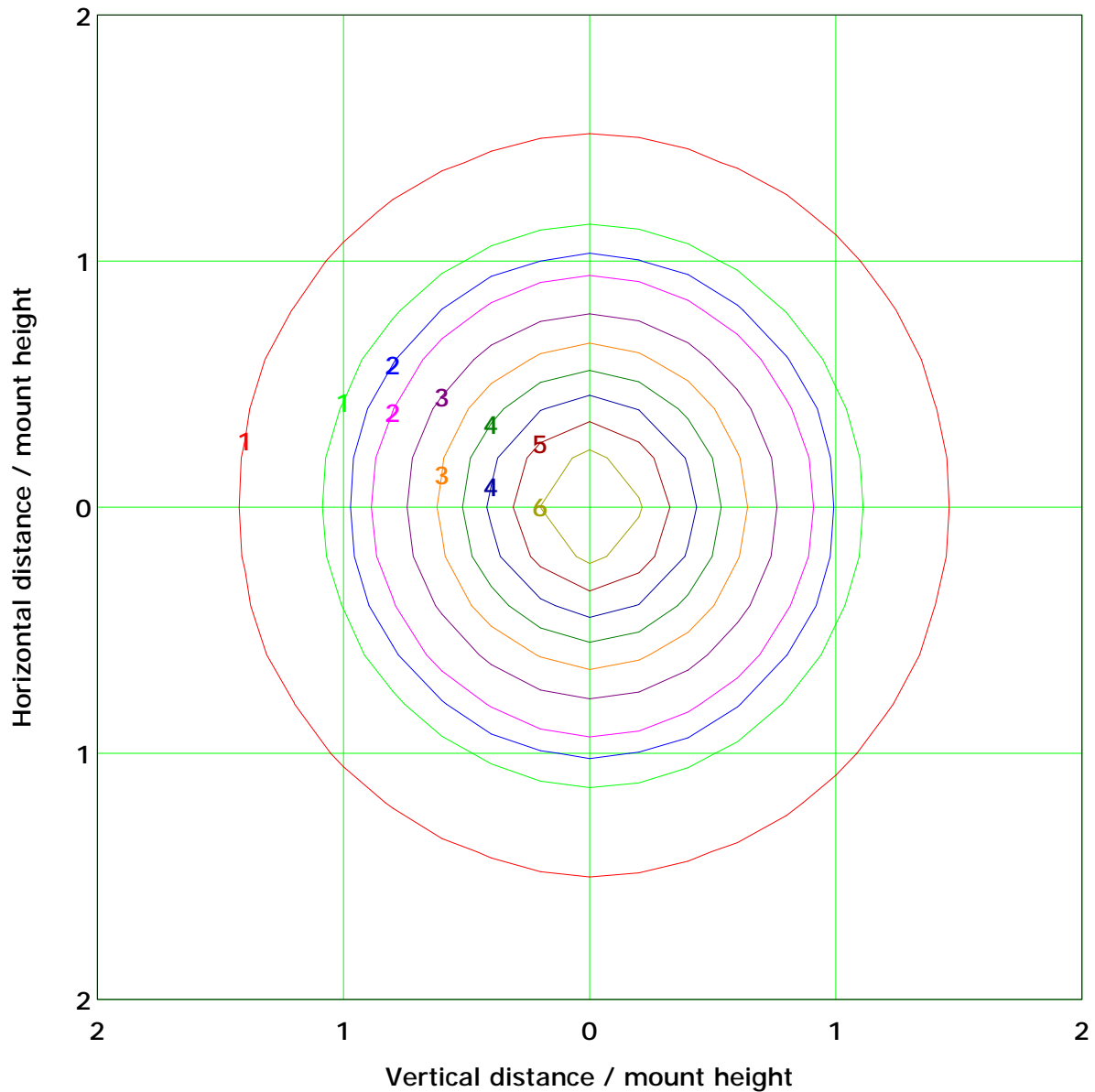
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 6.3 lx

(10%): 0.6 lx	(20%): 1.3 lx
(25%): 1.6 lx	(30%): 1.9 lx
(40%): 2.5 lx	(50%): 3.2 lx
(60%): 3.8 lx	(70%): 4.4 lx
(80%): 5.0 lx	(90%): 5.7 lx

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

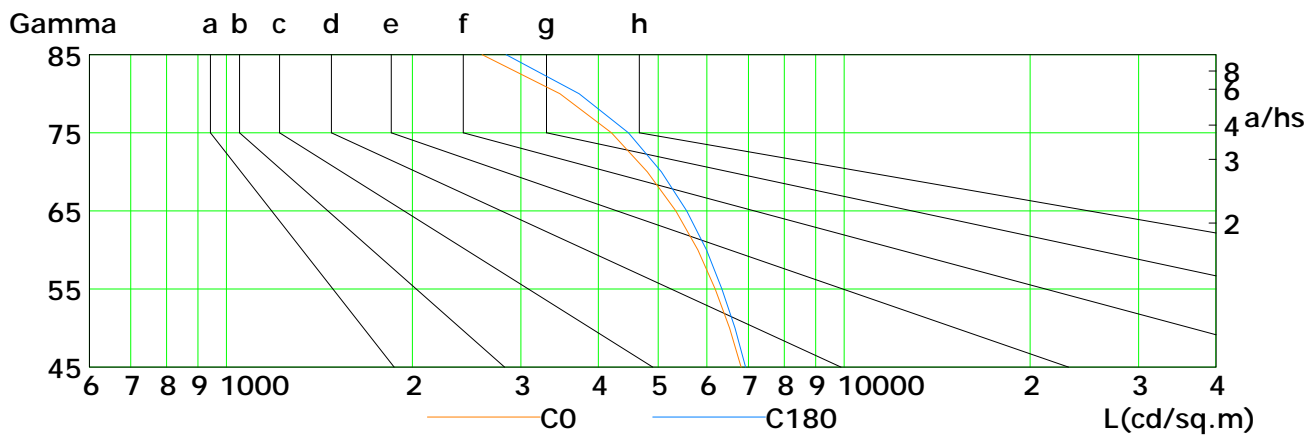
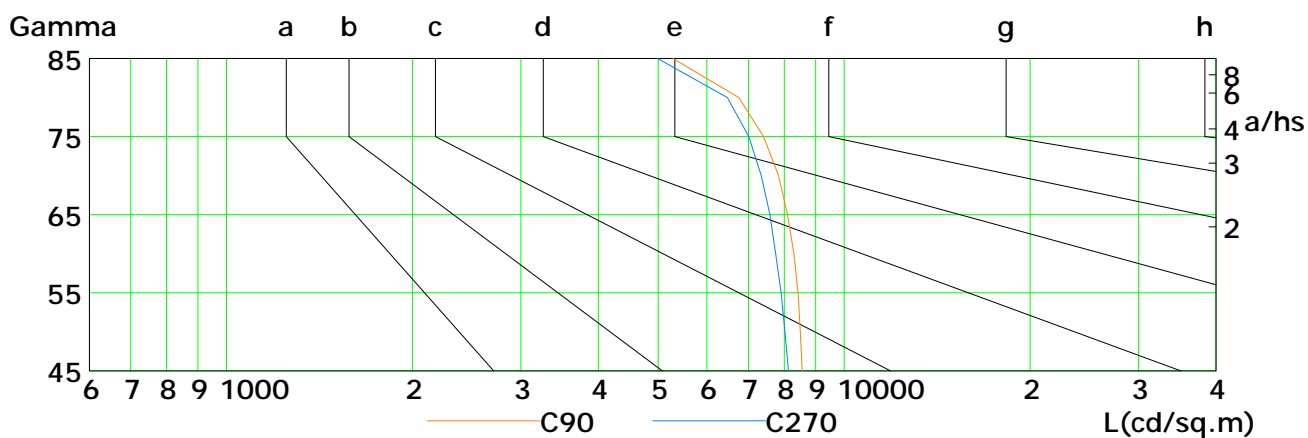
Humidity: 60%

Inspector:

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	6817	6526	6189	5797	5345	4804	4203	3470	2595
C90	8562	8495	8423	8296	8101	7832	7403	6757	5285
C180	6925	6661	6345	5987	5565	5065	4475	3723	2840
C270	8126	8025	7906	7753	7589	7349	7014	6470	4993

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

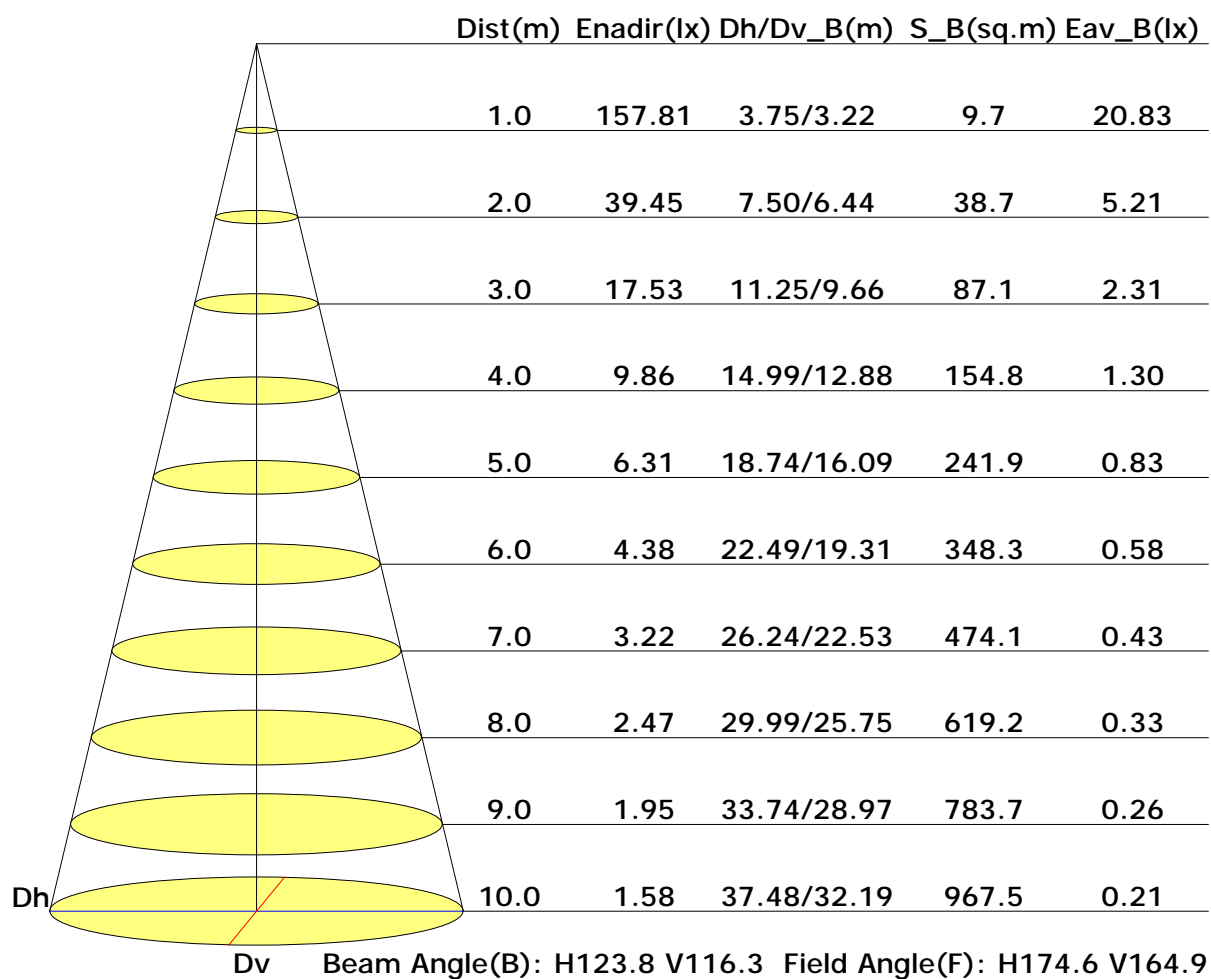
Test Device: GPM-1800B

Distance: 9.028 m

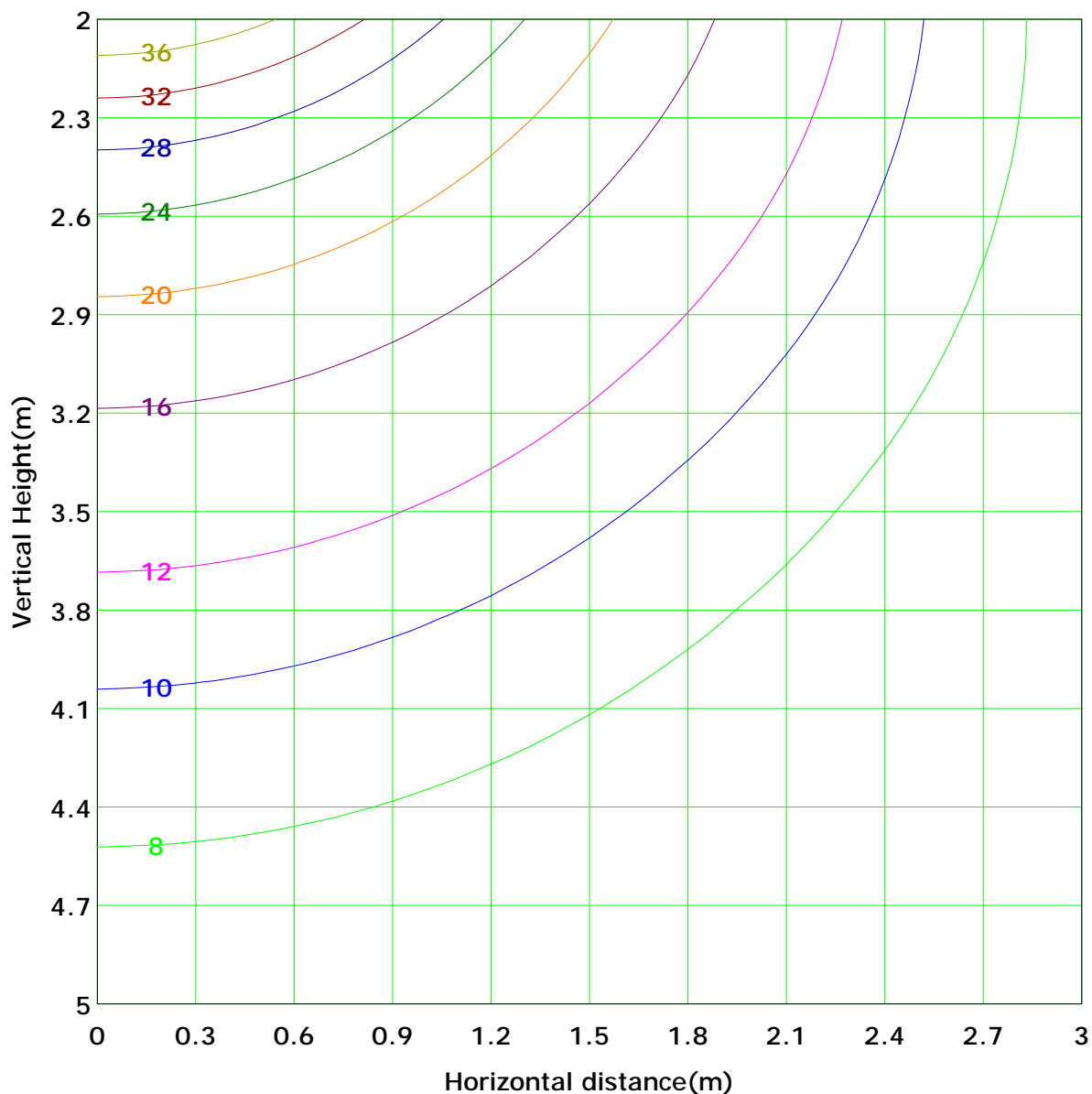
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 39.5 lx
(10%): 3.9 lx	(20%): 7.9 lx	
(25%): 9.9 lx	(30%): 11.8 lx	
(40%): 15.8 lx	(50%): 19.7 lx	
(60%): 23.7 lx	(70%): 27.6 lx	
(80%): 31.6 lx	(90%): 35.5 lx	

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:

Area Flux Table

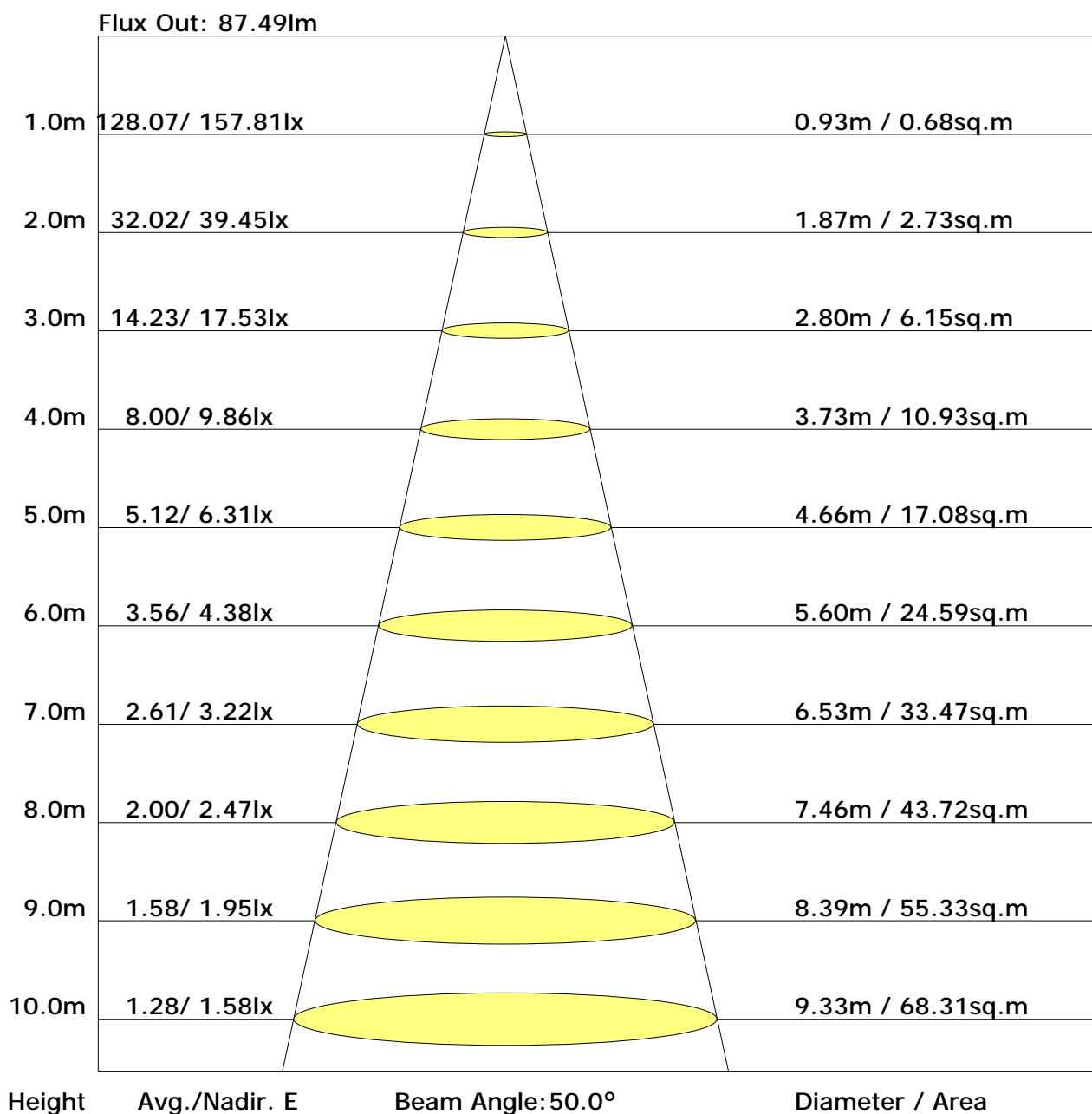
Unit: lm

		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	0.1	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.0	0.0	4.3	1.7
		0.0	0.1	0.3	0.5	0.6	0.8	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.4	0.3	0.1	0.0	10.4	10.3
0.0	0.2	0.4	0.7	1.0	1.3	1.5	1.7	1.8	1.8	1.7	1.5	1.3	1.0	0.7	0.4	0.2	0.1	0.0	0.0	17.1	17.1	
0.0	0.2	0.5	0.9	1.4	1.8	2.1	2.4	2.5	2.5	2.4	2.1	1.7	1.3	0.9	0.6	0.4	0.3	0.2	0.0	23.6	23.6	
0.1	0.3	0.7	1.2	1.7	2.2	2.7	3.0	3.2	3.1	3.0	2.7	2.4	2.1	1.7	1.3	0.9	0.5	0.2	0.0	29.6	29.6	
0.1	0.3	0.8	1.3	2.0	2.6	3.2	3.5	3.7	3.7	3.5	3.1	2.6	2.2	1.6	1.1	0.6	0.3	0.3	0.0	34.7	34.7	
0.1	0.3	0.8	1.5	2.2	3.0	3.5	4.0	4.2	4.1	3.9	3.5	2.9	2.2	1.4	0.8	0.3	0.3	0.1	0.1	38.8	38.8	
0.1	0.4	0.9	1.6	2.4	3.2	3.8	4.3	4.5	4.5	4.2	3.7	3.1	2.3	1.6	0.9	0.3	0.3	0.3	0.1	41.7	41.7	
0.1	0.4	0.9	1.7	2.5	3.3	4.0	4.5	4.7	4.6	4.4	4.0	3.3	2.5	1.6	0.9	0.4	0.4	0.4	0.1	43.5	43.5	
0.1	0.4	0.9	1.7	2.5	3.3	4.0	4.5	4.7	4.7	4.4	4.0	3.3	2.5	1.6	0.9	0.4	0.4	0.4	0.1	43.8	43.7	
0.1	0.4	0.9	1.6	2.4	3.2	3.8	4.3	4.5	4.5	4.3	4.0	3.3	2.4	1.6	0.9	0.3	0.3	0.3	0.1	42.3	42.3	
0.1	0.3	0.9	1.5	2.3	3.0	3.6	4.0	4.3	4.3	4.0	3.6	3.0	2.2	1.5	0.8	0.3	0.3	0.3	0.1	39.8	39.8	
0.1	0.3	0.8	1.4	2.1	2.7	3.3	3.7	3.9	3.9	3.6	3.2	2.7	2.0	1.3	0.7	0.3	0.3	0.1	0.1	35.9	35.9	
0.1	0.3	0.7	1.2	1.8	2.3	2.8	3.2	3.3	3.3	3.1	2.8	2.3	1.7	1.1	0.6	0.3	0.3	0.3	0.0	30.9	30.9	
0.0	0.2	0.6	1.0	1.4	1.9	2.3	2.5	2.7	2.6	2.5	2.2	1.8	1.4	0.9	0.5	0.2	0.2	0.0	0.0	24.9	24.9	
0.0	0.2	0.4	0.7	1.1	1.4	1.6	1.8	1.9	1.9	1.8	1.6	1.3	1.0	0.7	0.4	0.2	0.2	0.0	0.0	18.1	18.0	
0.0	0.1	0.3	0.5	0.7	0.8	1.0	1.1	1.1	1.1	1.0	0.9	0.8	0.6	0.4	0.3	0.1	0.1	0.0	0.0	10.9	10.8	
0.0	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	4.5	1.9	
0.9	4.7	11.1	19.5	28.7	37.6	44.9	50.1	52.5	52.3	49.6	44.1	36.7	27.8	18.7	10.5	4.4	0.9	0.9	0.9	495		
0.7	4.5	10.9	19.2	28.4	37.2	44.5	49.7	52.1	51.9	49.2	43.8	36.3	27.5	18.4	10.2	4.1	0.6	0.6	0.6	489		

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	21.0	22.5	21.4	22.9	23.4	19.9	21.4	20.3	21.8	22.3
3H	23.1	24.4	23.6	24.9	25.5	21.5	22.9	22.0	23.3	23.9
4H	24.0	25.3	24.5	25.8	26.3	22.1	23.4	22.6	23.9	24.4
6H	24.8	26.0	25.3	26.5	27.1	22.4	23.6	23.0	24.1	24.7
8H	25.1	26.3	25.7	26.8	27.4	22.5	23.7	23.1	24.2	24.8
12H	25.4	26.5	26.0	27.1	27.7	22.6	23.7	23.1	24.2	24.8
X=4H Y=2H	21.4	22.7	21.9	23.2	23.8	20.6	21.9	21.1	22.4	22.9
3H	23.7	24.8	24.3	25.4	25.9	22.5	23.5	23.0	24.1	24.7
4H	24.7	25.7	25.3	26.3	26.9	23.1	24.1	23.7	24.7	25.3
6H	25.7	26.6	26.3	27.1	27.8	23.6	24.5	24.2	25.1	25.7
8H	26.1	26.9	26.7	27.5	28.1	23.7	24.6	24.3	25.1	25.8
12H	26.5	27.2	27.1	27.8	28.5	23.8	24.6	24.4	25.2	25.8
X=8H Y=4H	24.9	25.8	25.5	26.3	27.0	23.6	24.4	24.1	25.0	25.6
6H	26.0	26.7	26.6	27.3	27.9	24.1	24.8	24.8	25.5	26.1
8H	26.5	27.1	27.1	27.7	28.4	24.4	25.0	25.0	25.6	26.3
12H	27.0	27.5	27.6	28.2	28.9	24.5	25.0	25.1	25.6	26.4
X=12H Y=4H	24.9	25.7	25.5	26.3	26.9	23.6	24.4	24.2	25.0	25.6
6H	26.0	26.6	26.7	27.2	27.9	24.3	24.9	24.9	25.5	26.2
8H	26.6	27.1	27.2	27.7	28.4	24.5	25.1	25.1	25.7	26.4

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25
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	0.55	0.64	0.71	0.76	0.83	0.88	0.92	0.97	1.00
	0.30		0.48	0.56	0.64	0.69	0.77	0.83	0.87	0.92	0.96
	0.20		0.42	0.50	0.58	0.64	0.72	0.78	0.82	0.88	0.92
0.50	0.50	0.20	0.53	0.61	0.68	0.72	0.79	0.84	0.87	0.91	0.94
	0.30		0.46	0.54	0.61	0.66	0.74	0.79	0.83	0.88	0.91
	0.20		0.41	0.49	0.56	0.62	0.69	0.75	0.79	0.84	0.88
0.30	0.50	0.20	0.51	0.58	0.64	0.69	0.75	0.79	0.82	0.86	0.89
	0.30		0.45	0.52	0.59	0.64	0.71	0.75	0.79	0.83	0.86
	0.20		0.41	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84
0.00	0.00	0.00	0.38	0.44	0.51	0.56	0.62	0.67	0.70	0.75	0.78
<p>Rating: 18W 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	0.97	0.83	0.71	0.62	0.50	0.42	0.36	0.28	0.23
	0.30		0.81	0.71	0.62	0.55	0.45	0.38	0.33	0.27	0.22
	0.20		0.70	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21
0.50	0.50	0.20	0.92	0.79	0.67	0.58	0.47	0.42	0.34	0.27	0.22
	0.30		0.78	0.68	0.59	0.52	0.43	0.36	0.32	0.25	0.21
	0.20		0.68	0.60	0.53	0.47	0.40	0.34	0.30	0.24	0.20
0.30	0.50	0.20	0.88	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.21
	0.30		0.75	0.65	0.56	0.50	0.41	0.35	0.30	0.24	0.20
	0.20		0.66	0.58	0.51	0.46	0.38	0.33	0.28	0.23	0.19
0.00	0.00	0.00	0.55	0.48	0.41	0.37	0.30	0.26	0.22	0.18	0.15
<p>Rating: 18W 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	0.24	0.25	0.26	0.27	0.28	0.28	0.28	0.29	0.29
	0.30		0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27
	0.20		0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.23	0.24
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.23
0.30	0.50	0.20	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
<p>Rating: 18W 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>											