

Report No.:

Test Time: 2018/4/18 15:20

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGBW (G)

Luminaire Description: DMX RIBBONLYTE RGBW (G)

Luminous Length (mm): 1000

Luminous Width (mm): 18

Luminous Height (mm): 6

Voltage: 24.0 V

Current: 0.231 A

Power: 5.55 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 209.5 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H124.5

Vertical Diffuse Angle(50%): V118.6

Luminaire Efficacy Rating (LER): 38

Max. Intensity: 59.91 cd

Total Rated Lamp Lumens: 209.5 lm

Efficiency: 100%

Upward Ratio: 8%

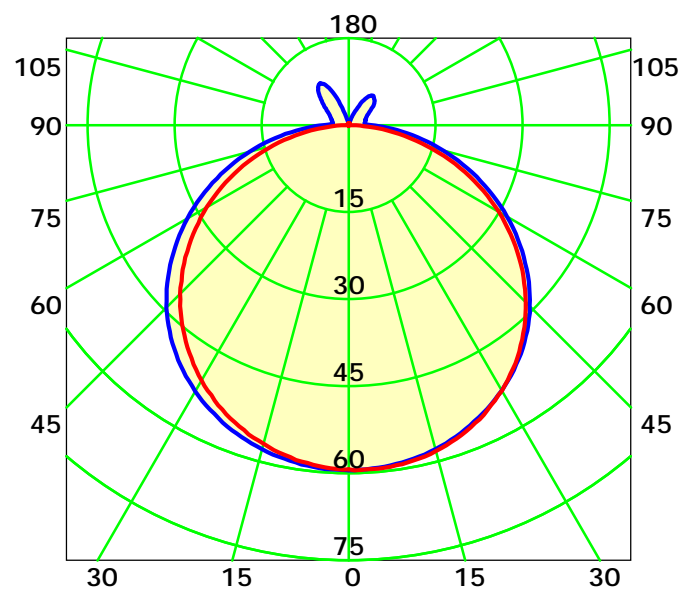
Central Intensity: 59.86 cd

Pos of Max. Intensity: H60 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 121.5° 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

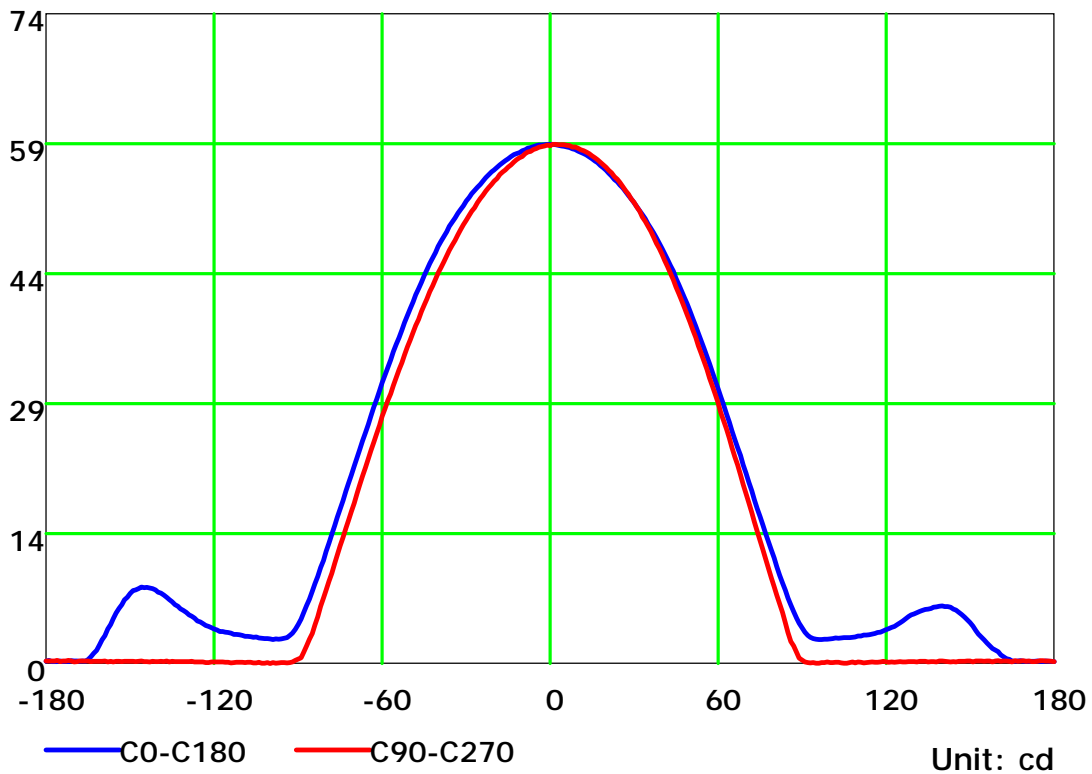
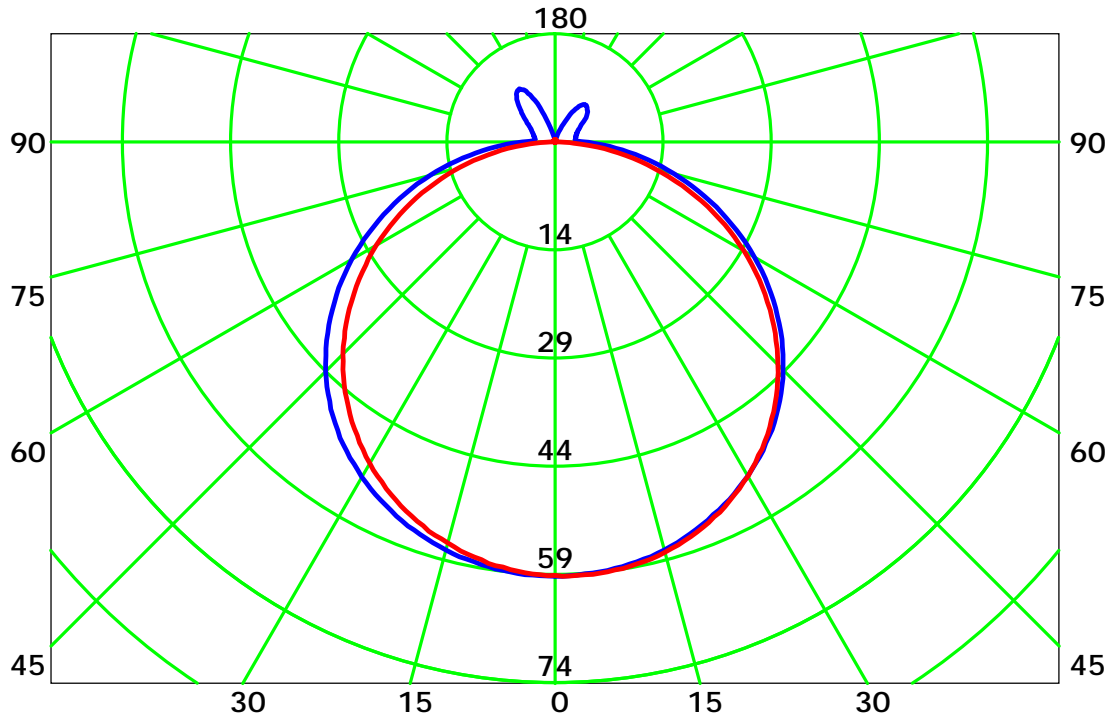
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

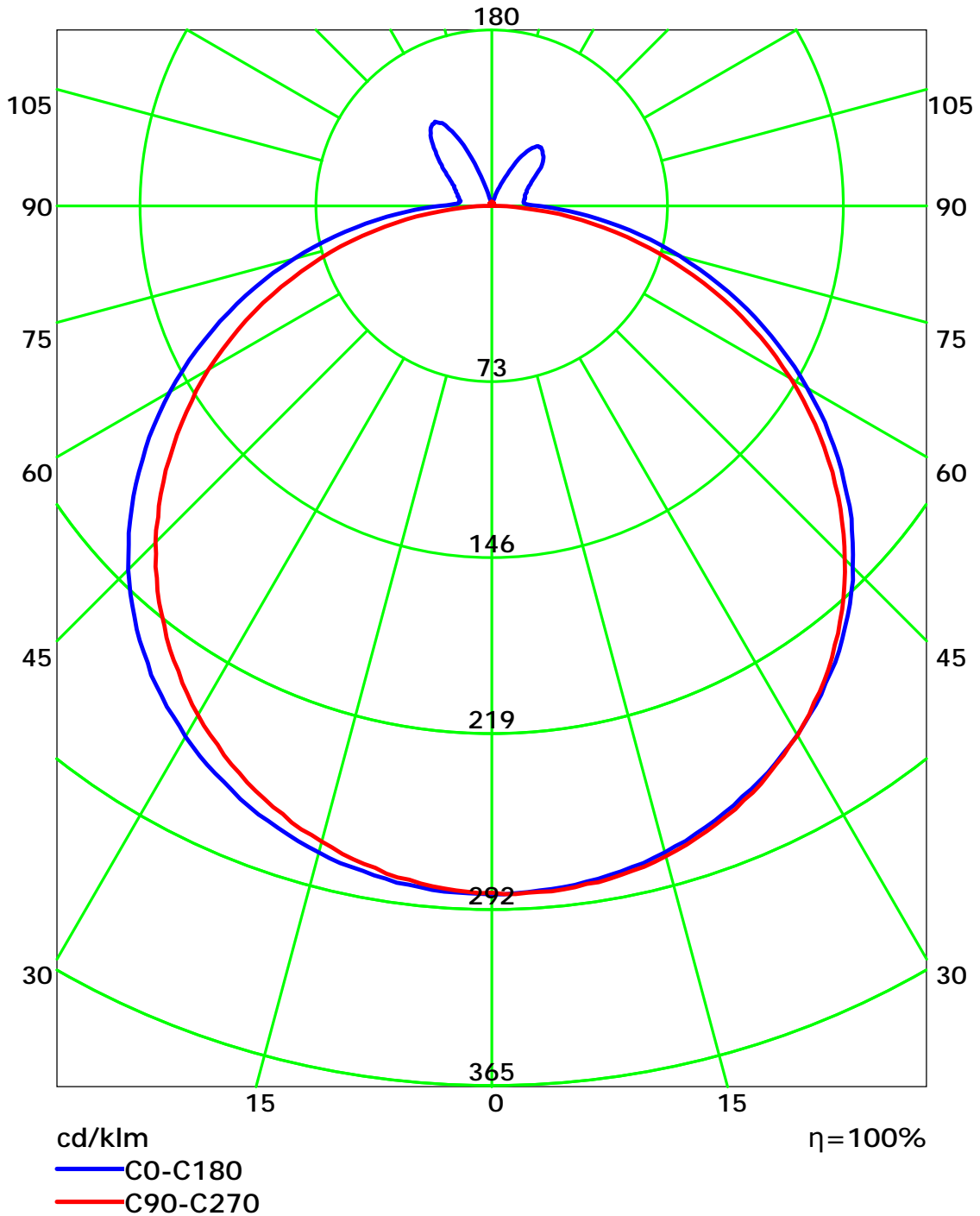
## Luminous Intensity Distribution Curve



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:

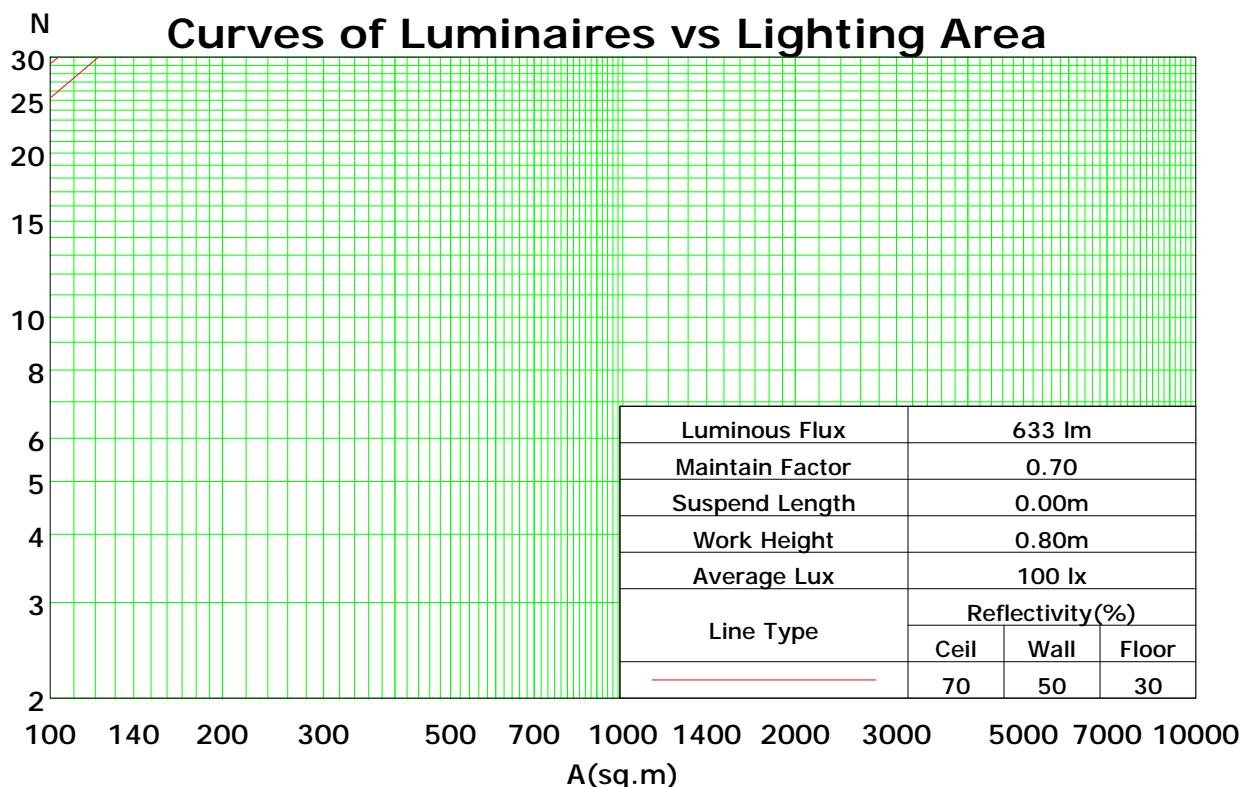
## Coefficients Of Utilization - Zonal Cavity Method

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	101	101	101	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	69	75	71	67	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	62	58	54	51
4	79	67	58	51	76	65	57	50	62	54	49	58	52	47	55	50	46	43
5	73	60	50	44	70	58	49	43	55	48	42	52	46	41	50	44	39	37
6	67	53	44	38	65	52	44	37	50	42	36	47	40	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	31	26	36	30	25	34	29	24	23
10	50	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): 1.30

Spacing Criteria (Diagonal): 1.44



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

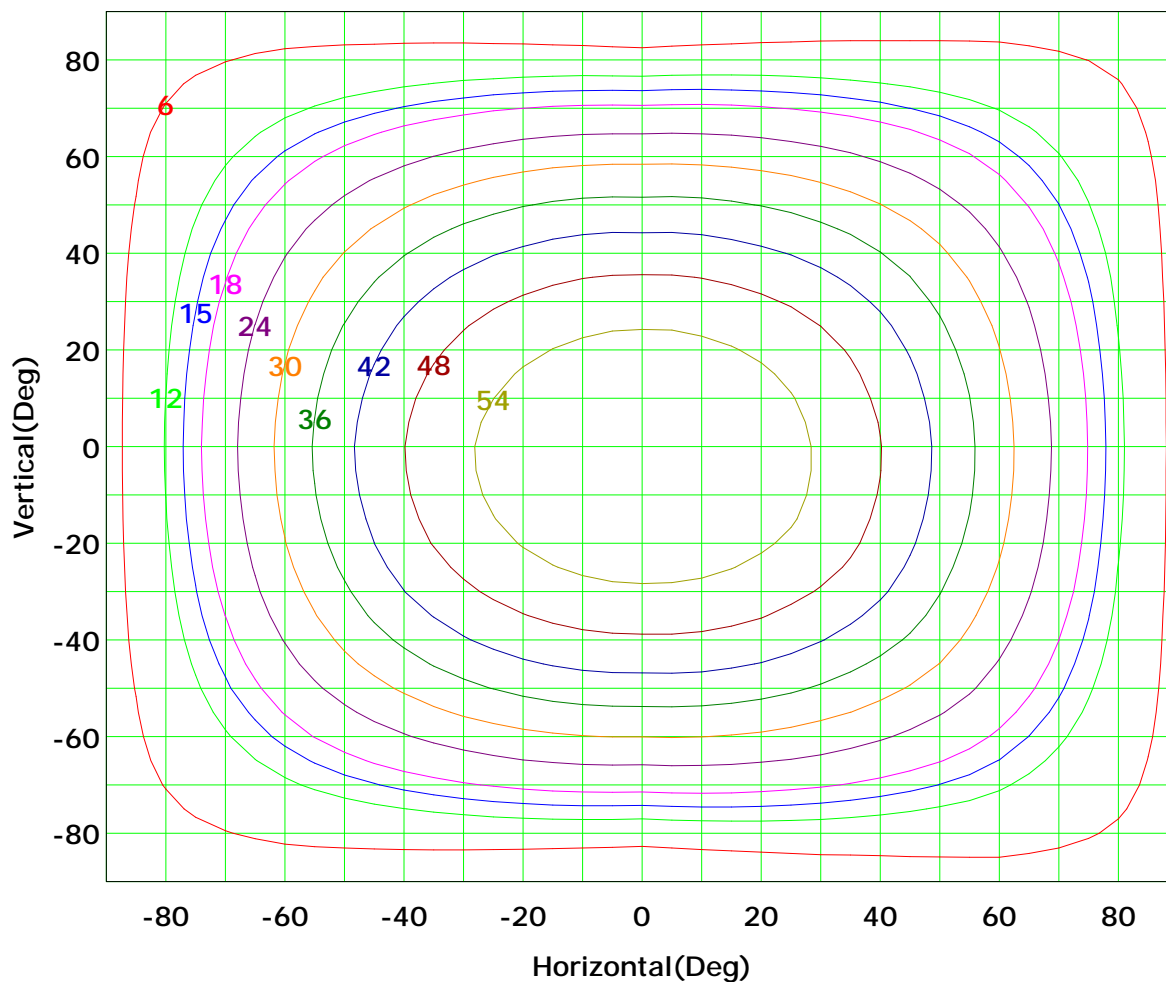
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 60 cd

( 10%):	6 cd	( 20%):	12 cd
( 25%):	15 cd	( 30%):	18 cd
( 40%):	24 cd	( 50%):	30 cd
( 60%):	36 cd	( 70%):	42 cd
( 80%):	48 cd	( 90%):	54 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

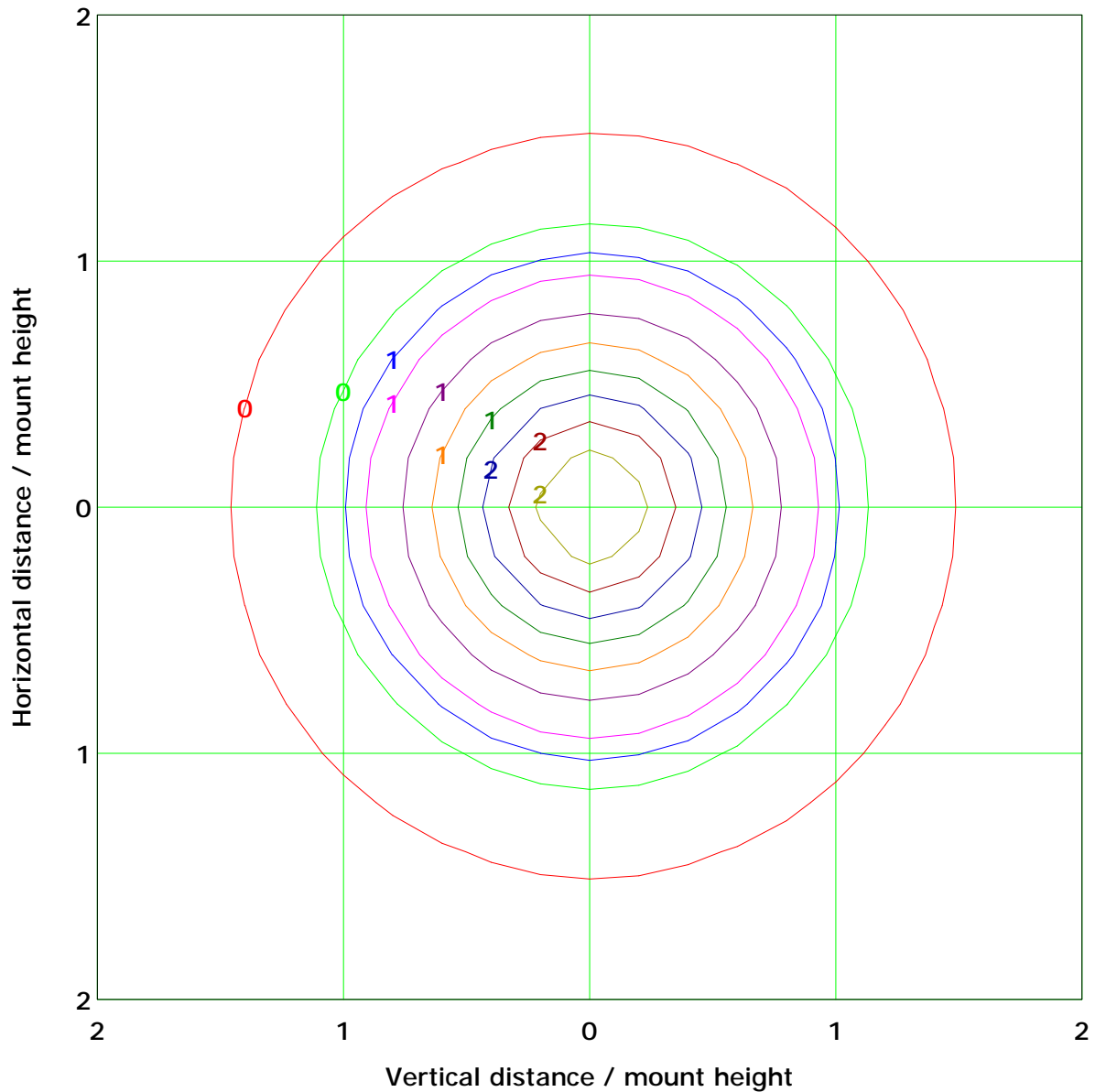
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.4 lx

( 10%): 0.2 lx	( 20%): 0.5 lx
( 25%): 0.6 lx	( 30%): 0.7 lx
( 40%): 1.0 lx	( 50%): 1.2 lx
( 60%): 1.4 lx	( 70%): 1.7 lx
( 80%): 1.9 lx	( 90%): 2.2 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

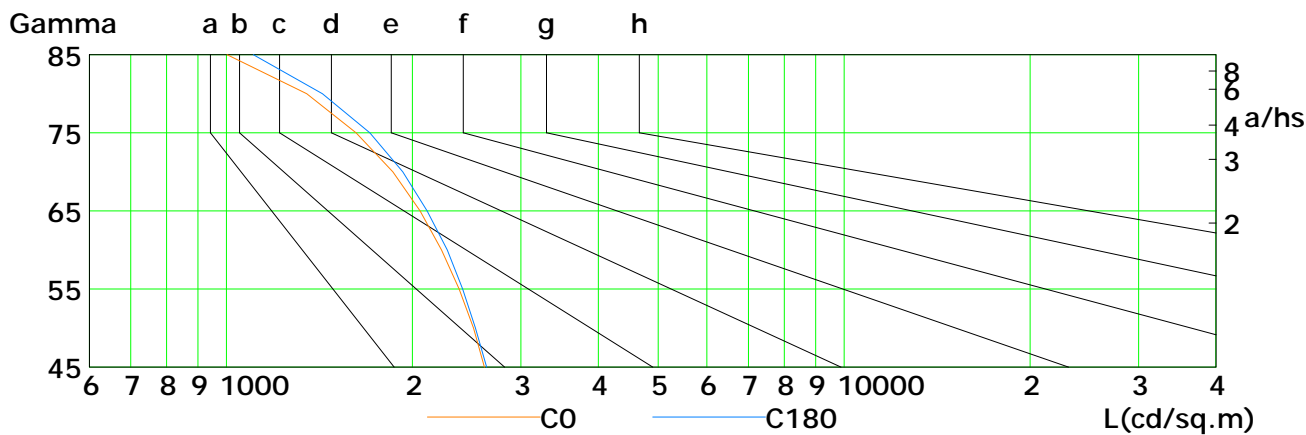
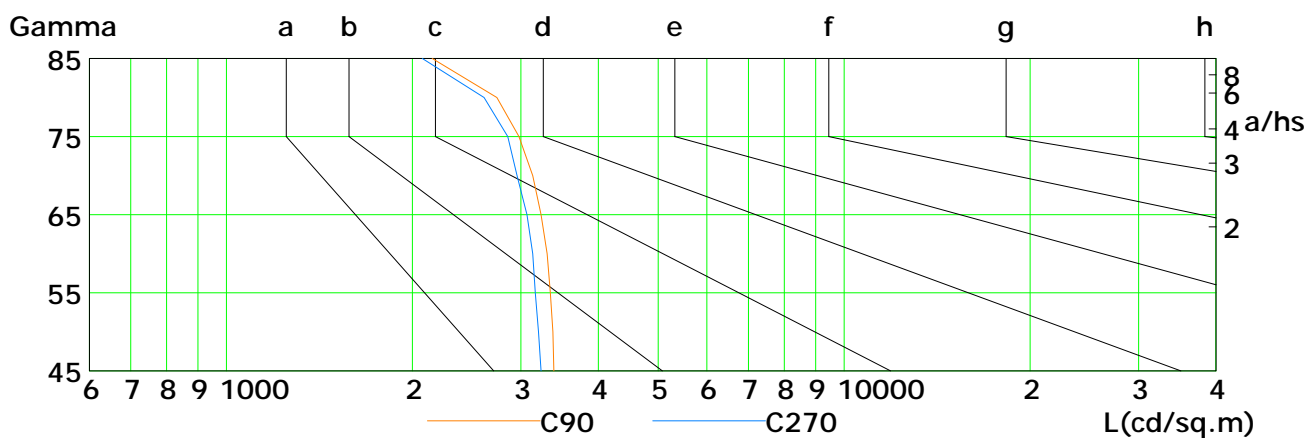
Humidity: 60%

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	2617	2513	2383	2232	2058	1861	1622	1350	1003
C90	3391	3378	3346	3306	3232	3134	2977	2741	2153
C180	2638	2531	2414	2279	2114	1931	1706	1431	1105
C270	3231	3201	3164	3133	3066	2956	2855	2614	2076

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

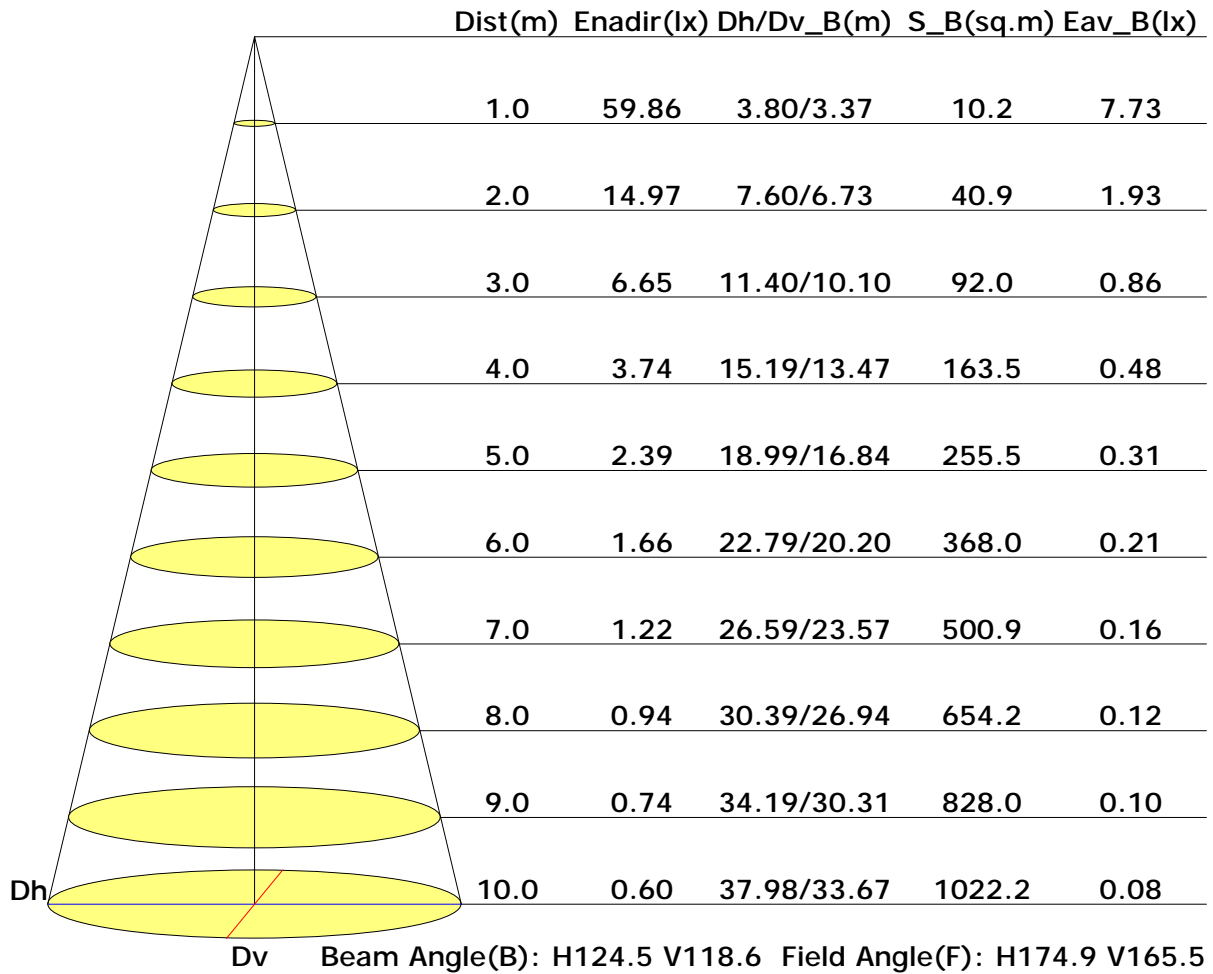
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

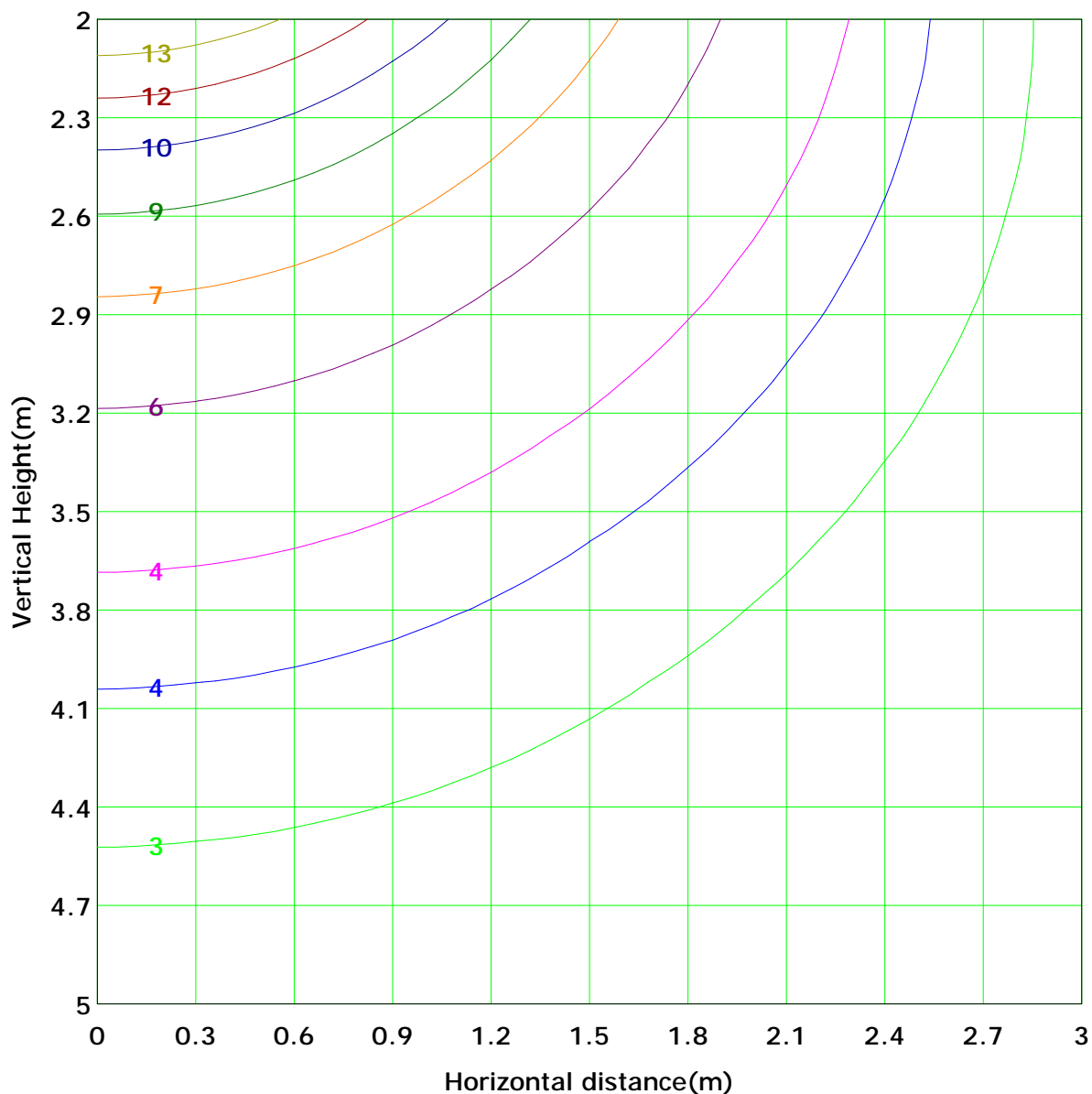
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 15.0 lx
( 10%): 1.5 lx	( 20%): 3.0 lx	( 30%): 4.5 lx
( 25%): 3.7 lx	( 40%): 6.0 lx	( 50%): 7.5 lx
( 60%): 9.0 lx	( 70%): 10.5 lx	( 80%): 12.0 lx
( 90%): 13.5 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

		Orbit: int																					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	$\phi$	Flux(T)	Flux(E)
		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	0.7	
		0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	4.2	4.1	
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	6.8	6.8	
		0.0	0.1	0.2	0.4	0.5	0.7	0.8	1.0	1.0	1.0	0.9	0.8	0.7	0.5	0.4	0.4	0.2	0.1	0.0	9.4	9.4	
		0.0	0.1	0.3	0.4	0.7	0.9	1.1	1.2	1.3	1.3	1.2	1.1	0.9	0.7	0.4	0.2	0.1	0.1	0.0	11.7	11.7	
		0.0	0.1	0.3	0.5	0.8	1.0	1.2	1.4	1.5	1.5	1.4	1.2	1.0	0.8	0.5	0.3	0.1	0.0	13.6	13.6		
		0.0	0.1	0.3	0.6	0.9	1.1	1.4	1.5	1.6	1.6	1.5	1.4	1.1	0.9	0.6	0.3	0.1	0.0	15.1	15.1		
		0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.6	1.7	1.7	1.6	1.5	1.2	0.9	0.6	0.3	0.1	0.0	16.1	16.1		
		0.0	0.1	0.4	0.6	1.0	1.3	1.5	1.7	1.8	1.8	1.7	1.5	1.3	0.9	0.6	0.3	0.1	0.0	16.7	16.7		
		0.0	0.1	0.4	0.6	1.0	1.3	1.5	1.7	1.8	1.8	1.7	1.5	1.3	1.0	0.6	0.3	0.1	0.0	16.8	16.8		
		0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.8	1.7	1.5	1.2	0.9	0.6	0.3	0.1	0.0	16.4	16.4		
		0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.4	1.5	1.5	1.4	1.3	1.0	0.8	0.5	0.3	0.1	0.0	14.1	14.1		
		0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.2	1.1	0.9	0.7	0.4	0.2	0.1	0.0	12.2	12.2		
		0.0	0.1	0.2	0.4	0.6	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.5	0.4	0.2	0.1	0.0	9.8	9.8		
		0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	7.2	7.2		
		0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	4.4	4.3		
		0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.8	0.9		
		0.4	1.8	4.3	7.6	11.2	14.6	17.5	19.6	20.6	20.5	19.4	17.3	14.4	10.9	7.3	4.1	1.7	0.3	193			
		0.3	1.7	4.2	7.5	11.0	14.5	17.4	19.4	20.4	20.4	19.3	17.2	14.2	10.7	7.2	4.0	1.6	0.2		191		

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

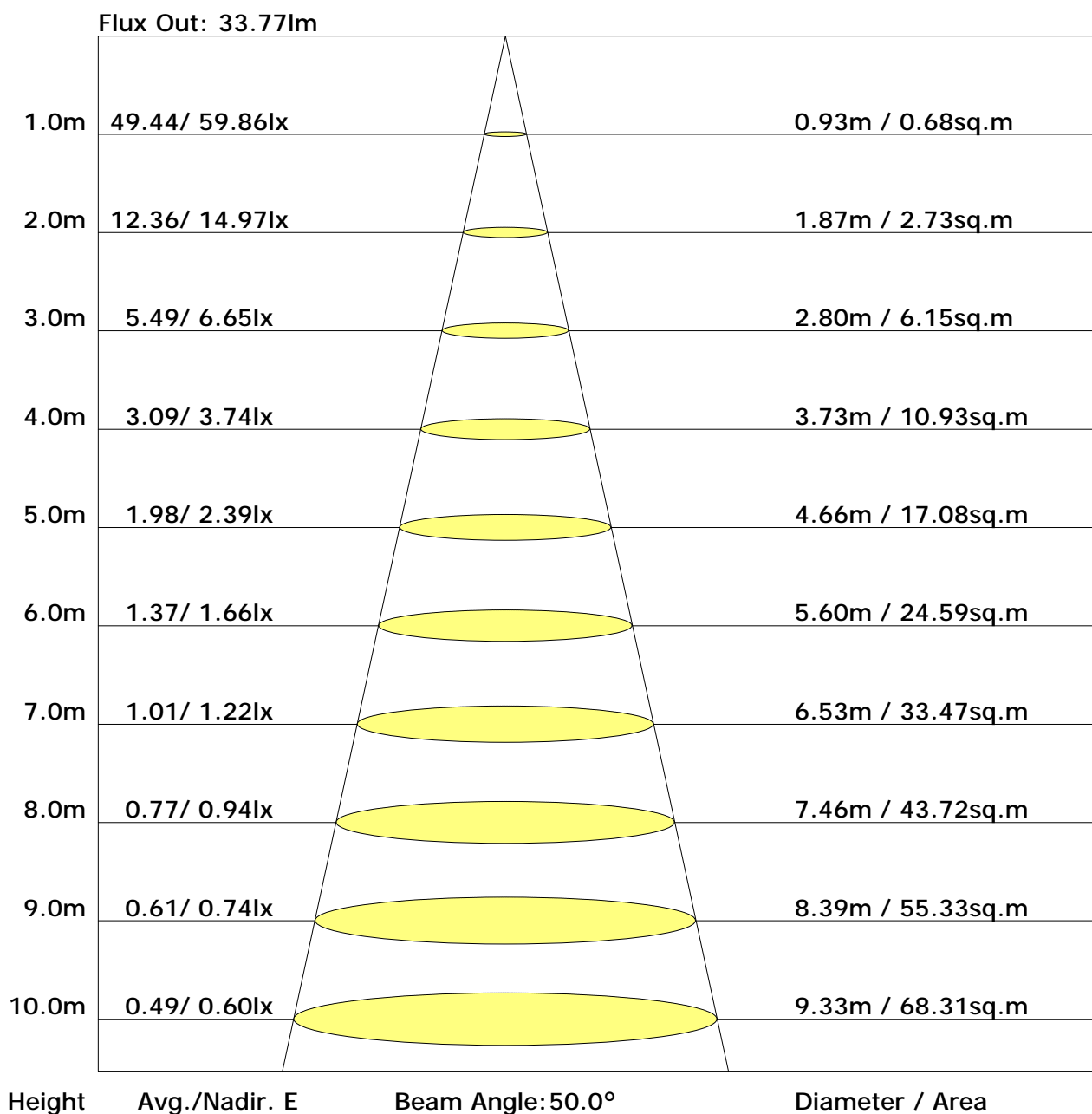
Test Device: GPM-1800B

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	20.0	21.5	20.5	22.0	22.5
3H	23.1	24.4	23.6	24.9	25.5	21.6	23.0	22.1	23.5	24.0
4H	24.0	25.3	24.5	25.8	26.3	22.2	23.5	22.7	24.0	24.6
6H	24.8	26.0	25.3	26.5	27.0	22.6	23.8	23.1	24.3	24.9
8H	25.1	26.3	25.6	26.8	27.4	22.7	23.8	23.2	24.4	25.0
12H	25.4	26.5	26.0	27.0	27.7	22.7	23.8	23.3	24.4	25.0
X=4H Y=2H	21.4	22.7	22.0	23.2	23.8	20.7	22.0	21.2	22.5	23.1
3H	23.7	24.8	24.3	25.4	26.0	22.6	23.7	23.1	24.2	24.8
4H	24.8	25.8	25.3	26.3	26.9	23.3	24.3	23.8	24.8	25.4
6H	25.7	26.6	26.3	27.1	27.8	23.8	24.7	24.3	25.2	25.9
8H	26.1	26.9	26.7	27.5	28.1	23.9	24.7	24.5	25.3	25.9
12H	26.5	27.2	27.1	27.8	28.5	24.0	24.7	24.6	25.3	26.0
X=8H Y=4H	25.0	25.8	25.5	26.4	27.0	23.7	24.5	24.3	25.1	25.7
6H	26.0	26.7	26.6	27.3	28.0	24.3	25.0	24.9	25.6	26.3
8H	26.5	27.1	27.1	27.8	28.4	24.5	25.1	25.1	25.8	26.4
12H	27.0	27.6	27.6	28.2	28.9	24.6	25.2	25.3	25.8	26.5
X=12H Y=4H	25.0	25.7	25.6	26.3	27.0	23.8	24.5	24.4	25.1	25.8
6H	26.0	26.7	26.7	27.3	28.0	24.4	25.1	25.1	25.7	26.4
8H	26.6	27.1	27.2	27.7	28.5	24.7	25.2	25.3	25.9	26.6

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	0.63	0.69	0.77	0.83	0.87	0.92	0.96
	0.20		0.42	0.50	0.58	0.63	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	0.61	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		0.40	0.47	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	0.55	0.62	0.67	0.70	0.75	0.78
<p>Rating: 6W 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	0.98	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	0.39	0.34	0.27	0.22	
	0.20		0.70	0.62	0.55	0.50	0.41	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.93	0.79	0.67	0.59	0.47	0.43	0.34	0.27	0.22	
	0.30		0.78	0.69	0.59	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.68	0.61	0.53	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.88	0.75	0.63	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.66	0.57	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.66	0.59	0.51	0.46	0.38	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.55	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
<p>Rating:6W 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	0.26	0.27	0.28	0.28	0.29	0.29
	0.30		0.17	0.18	0.20	0.21	0.22	0.24	0.24	0.26	0.26
	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	0.26	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	0.25
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.30	0.50	0.20	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.26	0.27
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24
	0.20		0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											