

Report No.:

Test Time: 2018/4/18 16:12

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGBW (W)

Luminaire Description: DMX RIBBONLYTE RGBW (W)

Luminous Length (mm): 1000

Luminous Width (mm): 18

Luminous Height (mm): 6

Voltage: 24.0 V

Current: 0.232 A

Power: 5.56 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 213.9 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H123.1

Vertical Diffuse Angle(50%): V115

Luminaire Efficacy Rating (LER): 38

Max. Intensity: 63.09 cd

Total Rated Lamp Lumens: 213.9 lm

Efficiency: 100%

Upward Ratio: 8%

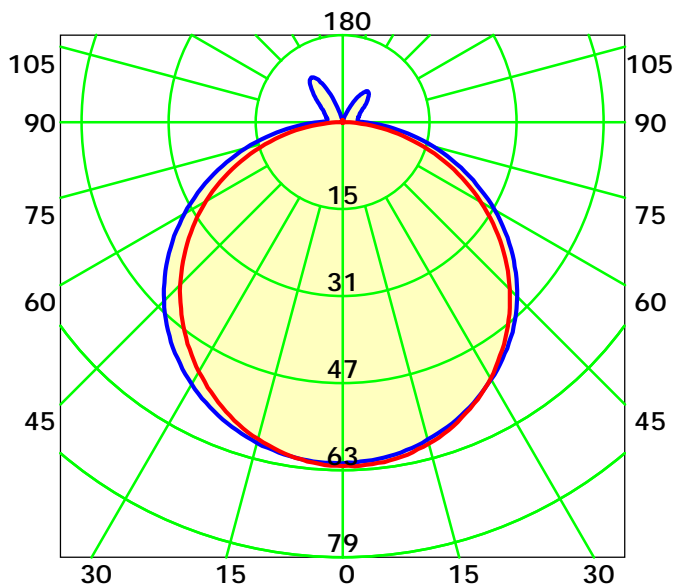
Central Intensity: 62.31 cd

Pos of Max. Intensity: H150 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 119.1° 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

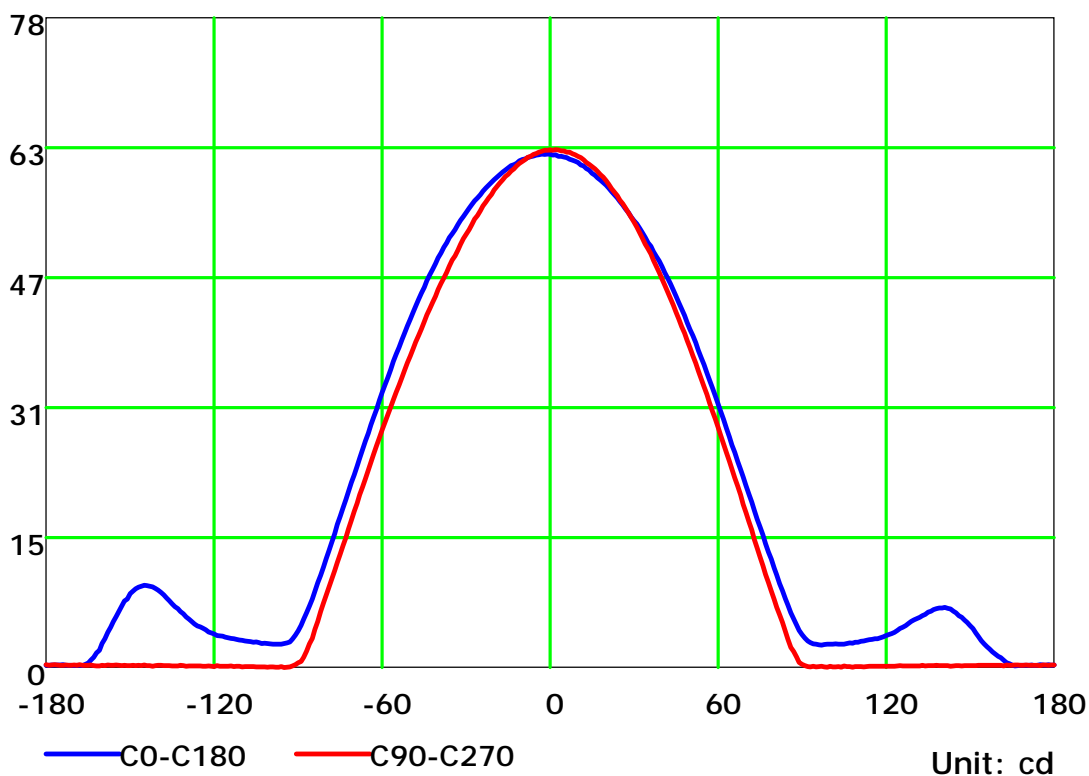
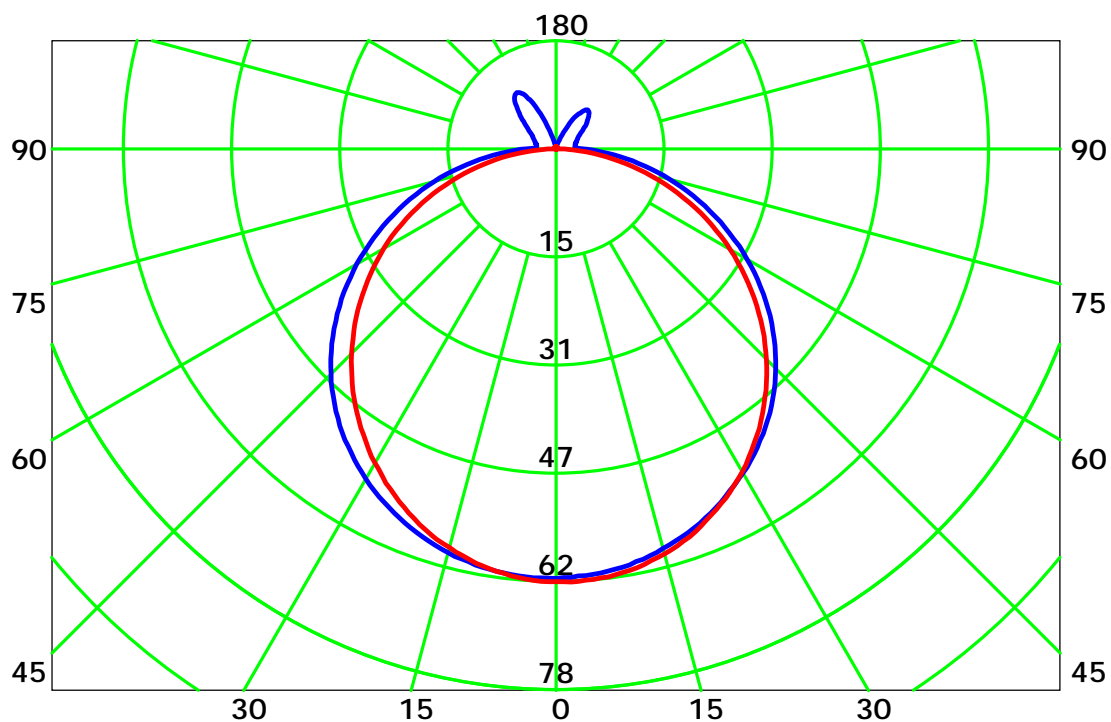
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

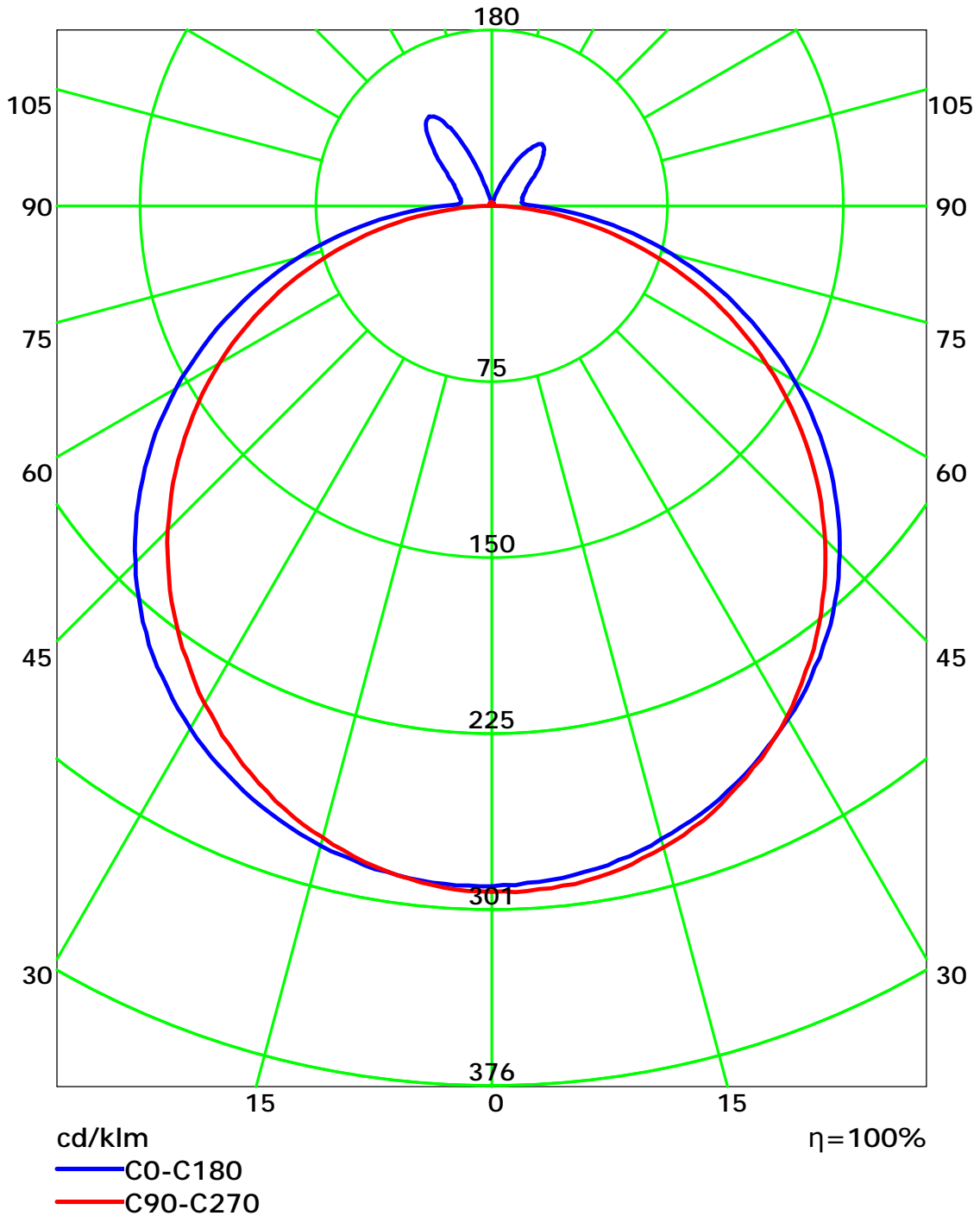
## Luminous Intensity Distribution Curve



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:

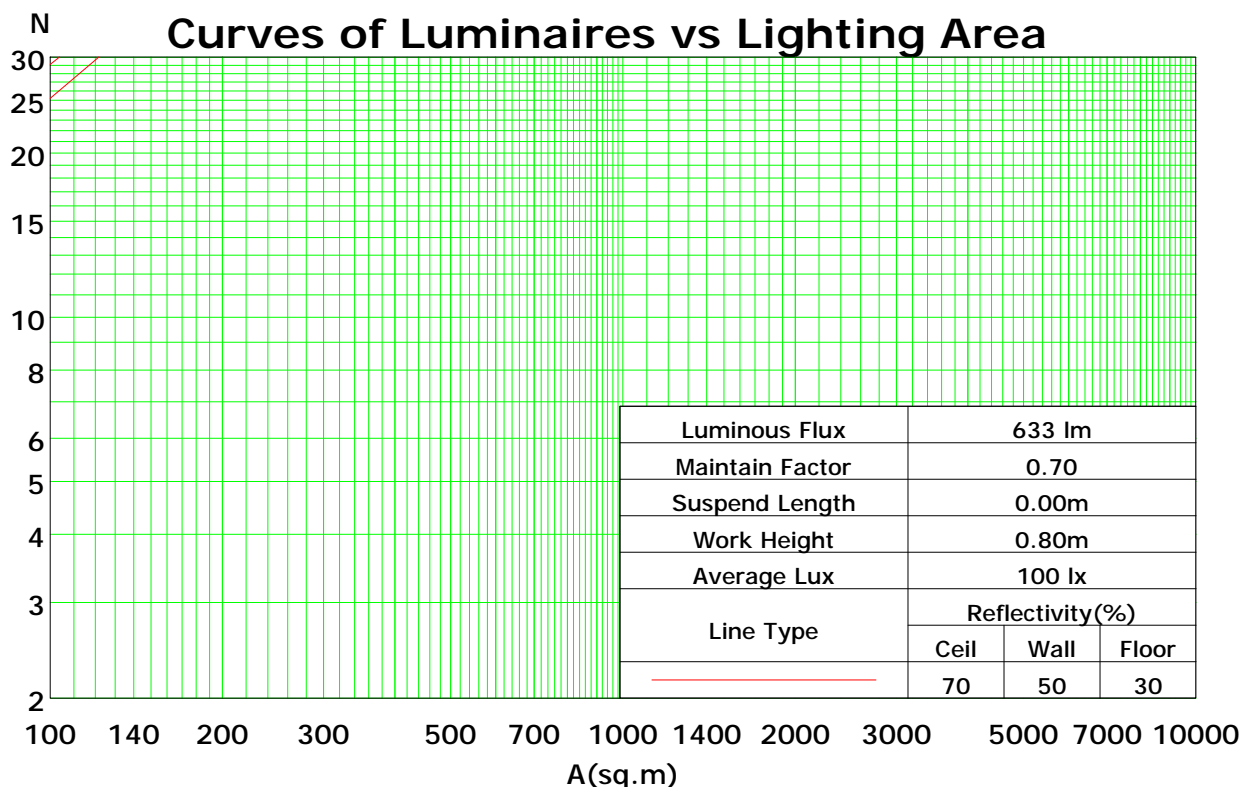
## Coefficients Of Utilization - Zonal Cavity Method

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	101	101	101	95	95	95	92
1	106	101	96	92	102	98	94	90	92	89	86	87	84	82	82	80	78	75
2	96	87	80	74	92	85	78	73	80	74	70	75	71	67	71	68	64	62
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	62	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	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	45	38	65	52	44	38	50	42	37	47	41	36	45	39	35	32
7	62	49	40	33	60	47	39	33	45	38	32	43	36	31	41	35	31	29
8	58	44	36	30	56	43	35	29	41	34	29	39	33	28	38	32	27	25
9	54	41	32	27	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	32	26	22	21

Spacing Criteria (0-180): 1.31

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.42



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

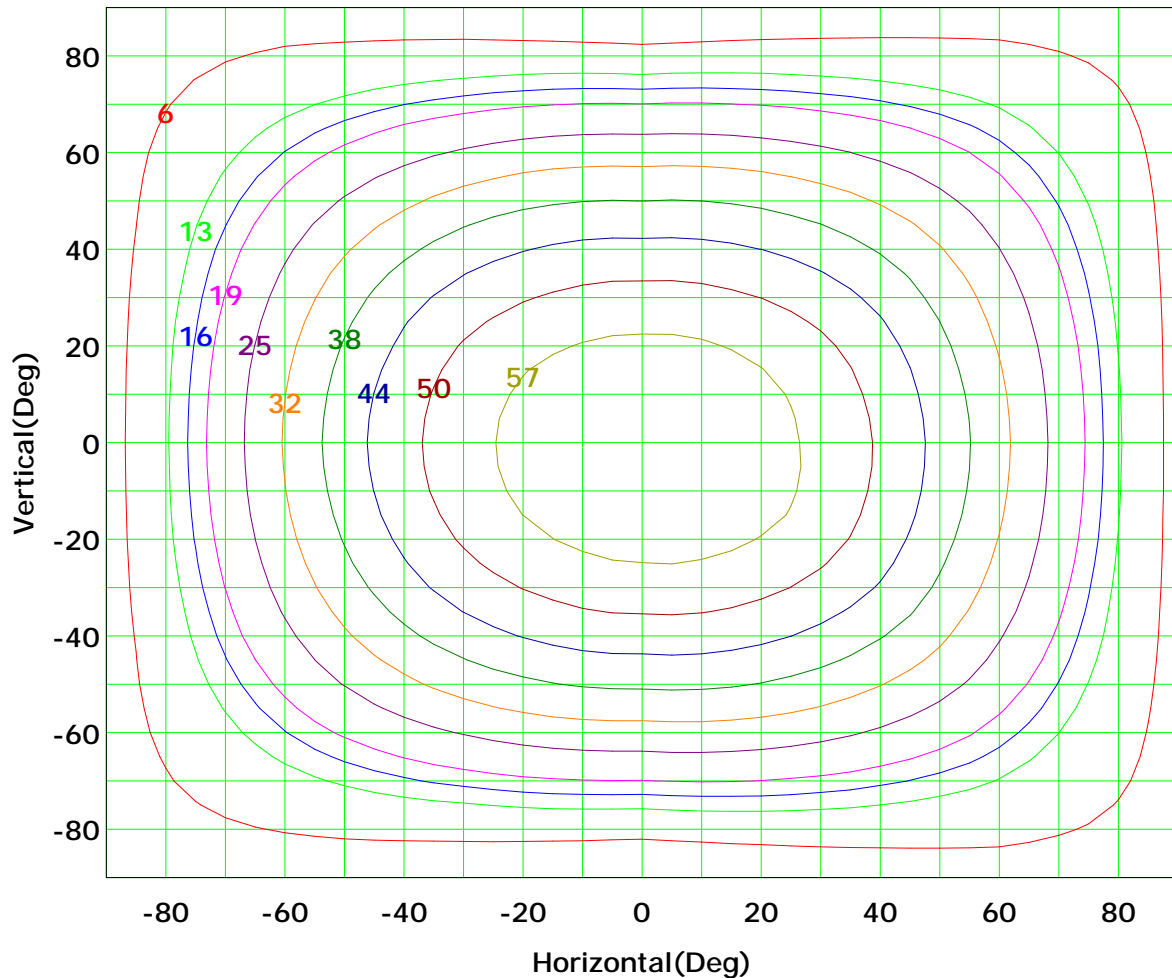
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 63 cd

( 10%):	6 cd	( 20%):	13 cd
( 25%):	16 cd	( 30%):	19 cd
( 40%):	25 cd	( 50%):	32 cd
( 60%):	38 cd	( 70%):	44 cd
( 80%):	50 cd	( 90%):	57 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

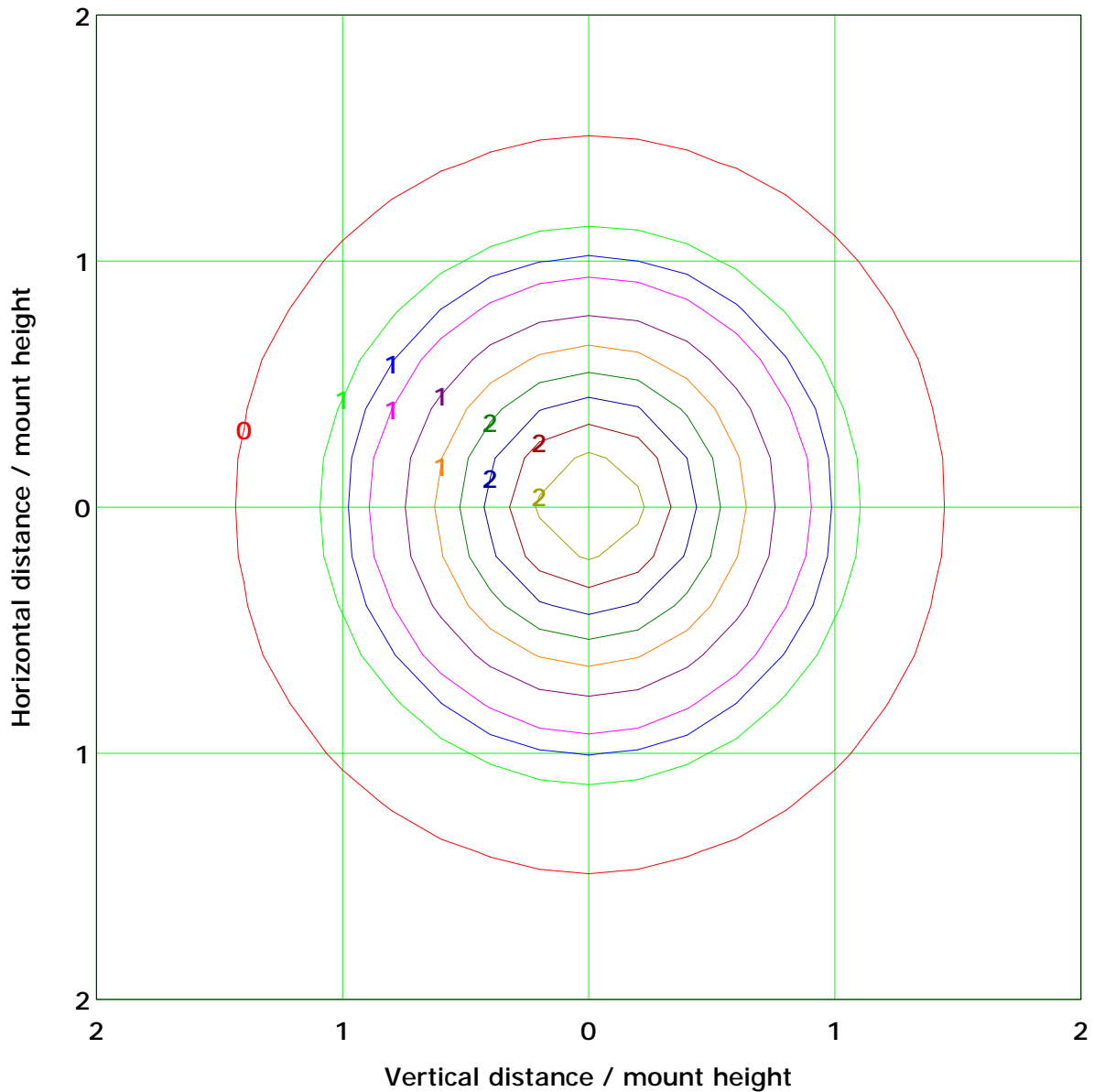
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.5 lx

( 10%): 0.3 lx	( 20%): 0.5 lx
( 25%): 0.6 lx	( 30%): 0.8 lx
( 40%): 1.0 lx	( 50%): 1.3 lx
( 60%): 1.5 lx	( 70%): 1.8 lx
( 80%): 2.0 lx	( 90%): 2.3 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

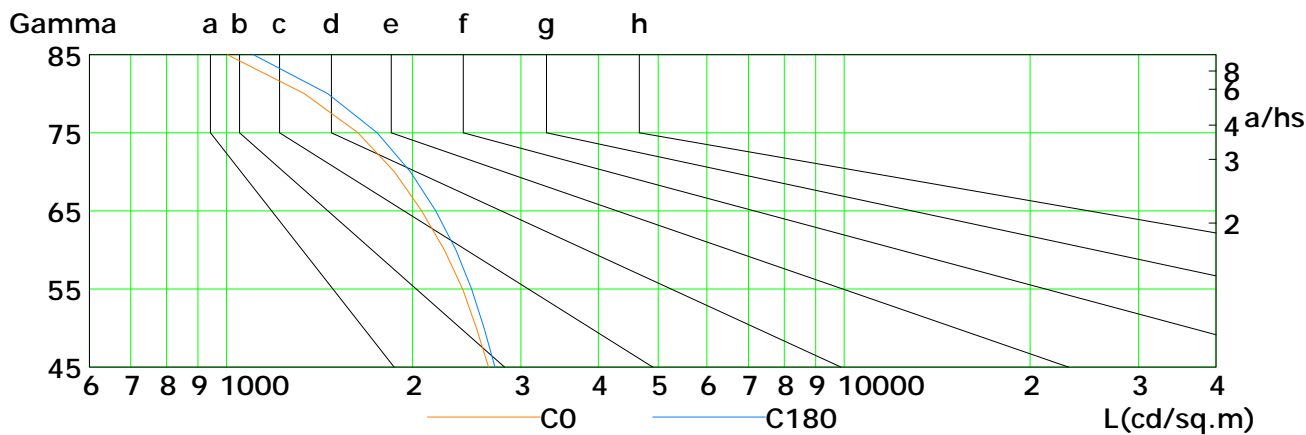
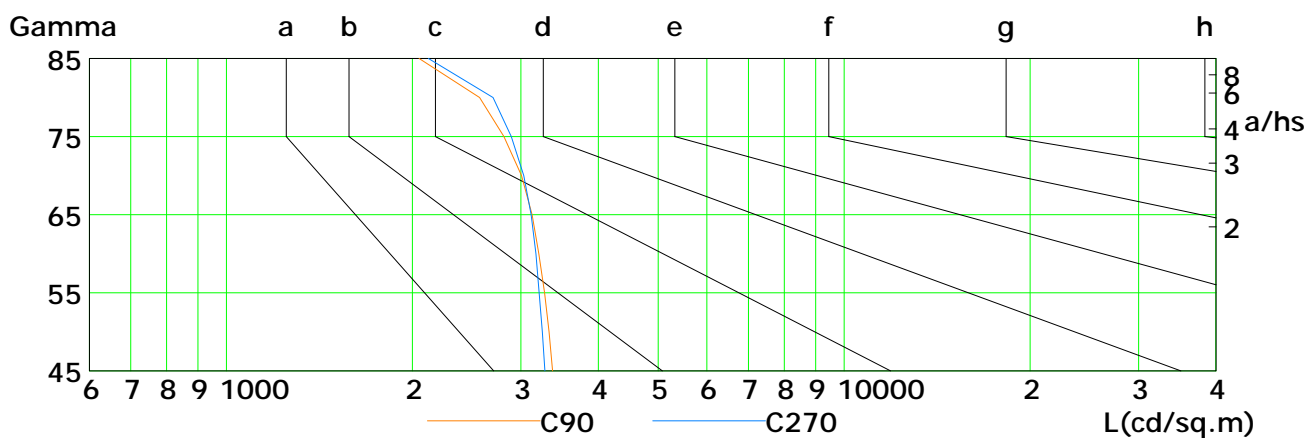
Humidity: 60%

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	2658	2539	2413	2254	2071	1871	1634	1338	1005
C90	3372	3330	3274	3204	3128	3004	2815	2571	2052
C180	2721	2615	2496	2353	2182	1986	1754	1460	1105
C270	3281	3246	3209	3173	3114	3031	2893	2704	2124

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

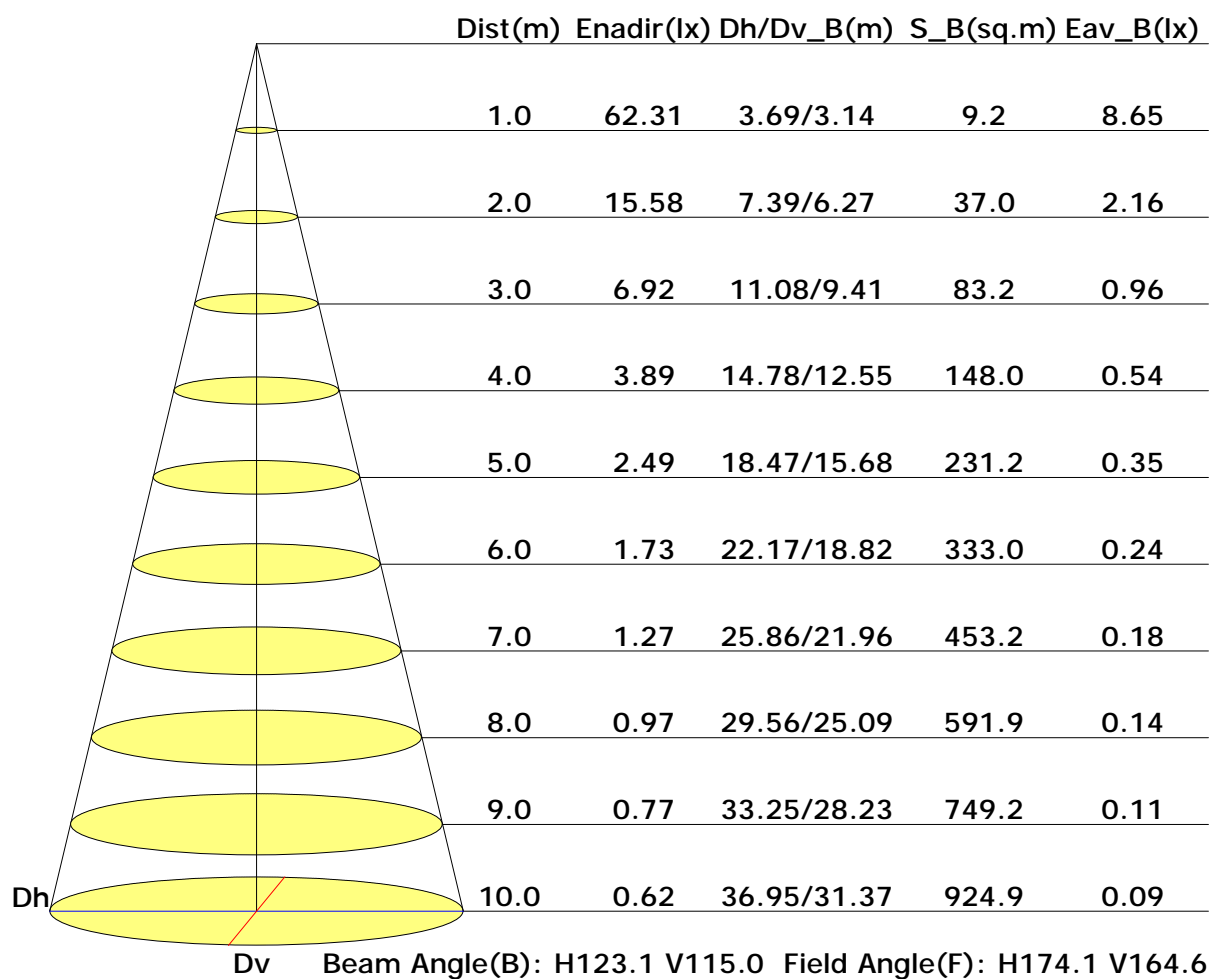
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

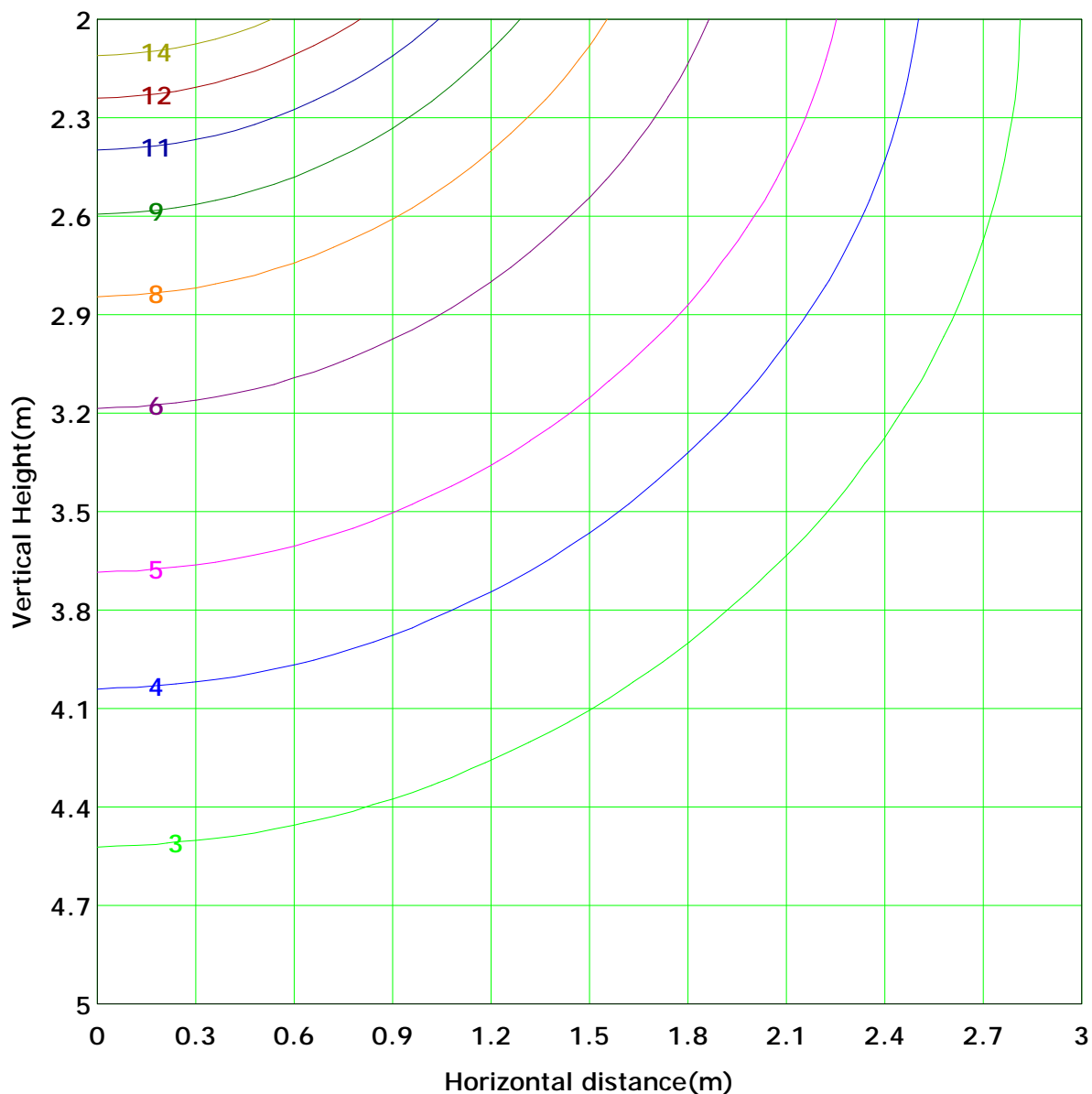
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 15.6 lx
( 10%): 1.6 lx	( 20%): 3.1 lx	
( 25%): 3.9 lx	( 30%): 4.7 lx	
( 40%): 6.2 lx	( 50%): 7.8 lx	
( 60%): 9.3 lx	( 70%): 10.9 lx	
( 80%): 12.5 lx	( 90%): 14.0 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																		Flux(T)		Flux(E)	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80				
Horizontal plane	-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	0.1	0.4	0.3		
	-80	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.8	1.8		
	-70	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	4.4	4.3		
	-60	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	7.7	7.6		
	-50	0.0	0.1	0.2	0.4	0.6	0.7	0.9	0.9	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	11.4	11.3		
	-40	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.3	1.6	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	15.0	14.8		
	-30	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.4	1.6	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	17.9	17.8		
	-20	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.6	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	20.1	19.9		
	-10	0.0	0.1	0.4	0.6	1.0	1.3	1.6	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	21.0	20.9		
	0	0.0	0.1	0.4	0.7	1.0	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	20.9	20.8		
	10	0.0	0.1	0.4	0.7	1.0	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	19.8	19.6		
	20	0.0	0.1	0.4	0.6	1.0	1.3	1.6	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	17.6	17.4		
	30	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	14.5	14.4		
	40	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	11.0	10.8		
	50	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	7.3	7.2		
	60	0.0	0.1	0.2	0.4	0.6	0.7	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.1	4.0		
	70	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.7	1.6		
	80	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2		
	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	0.1	1.7	0.6		
	Flux(T)	0.4	1.8	4.4	7.7	11.4	15.0	17.9	20.1	21.0	20.9	20.9	20.8	19.6	17.4	14.4	10.8	7.2	4.0	1.7	0.3	197	
Flux(E)	0.3	1.8	4.3	7.6	11.3	14.8	17.8	19.9	20.9	20.8	19.6	17.4	14.4	10.8	7.2	4.0	1.6	0.2		195			

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

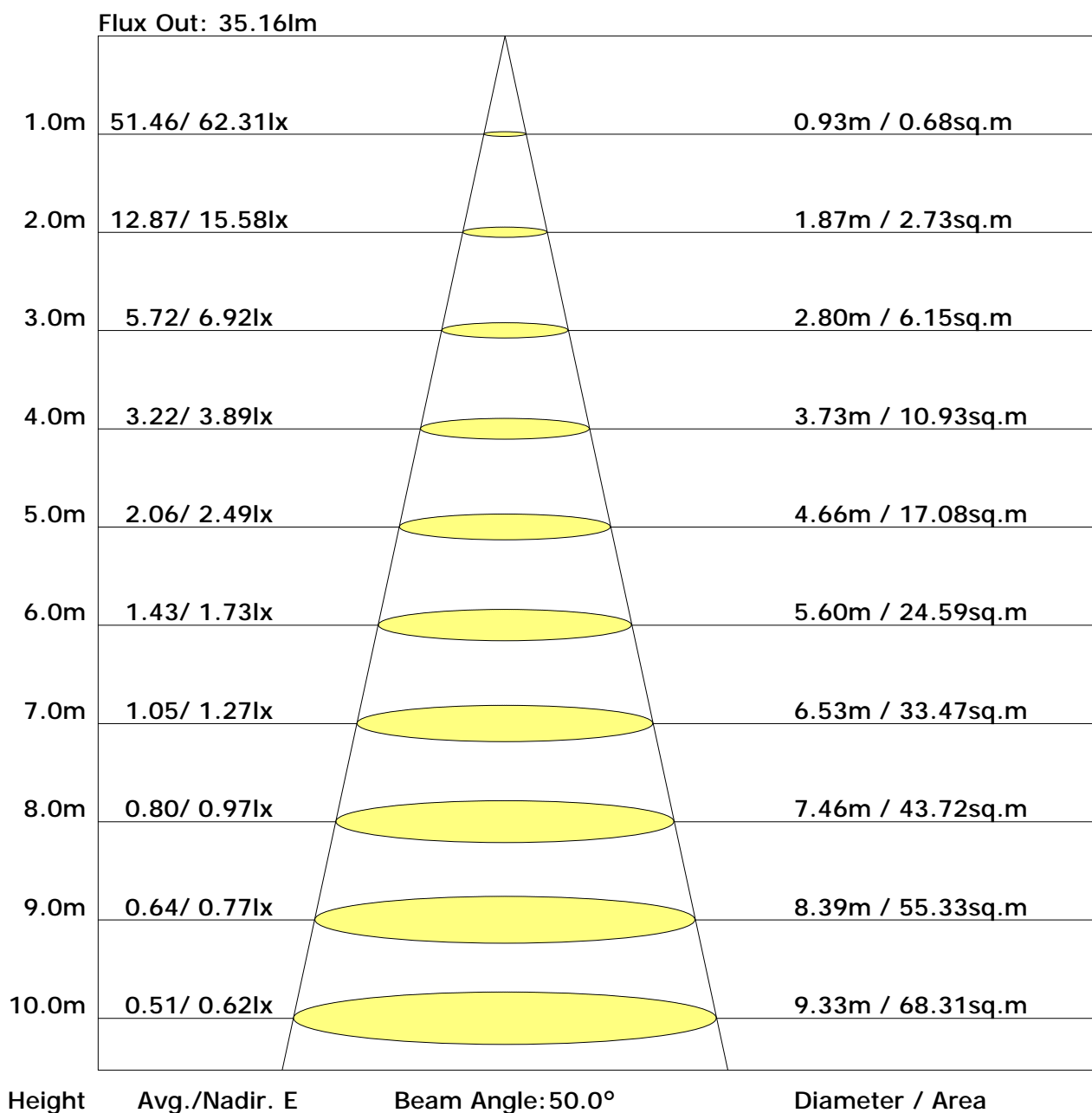
Test Device: GPM-1800B

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	20.9	22.4	21.4	22.9	23.4	19.7	21.2	20.2	21.7	22.2
3H	23.0	24.3	23.5	24.8	25.4	21.3	22.7	21.8	23.2	23.7
4H	23.9	25.2	24.4	25.7	26.2	21.9	23.2	22.4	23.7	24.2
6H	24.7	25.8	25.2	26.4	26.9	22.2	23.4	22.8	23.9	24.5
8H	25.0	26.1	25.5	26.7	27.2	22.3	23.5	22.9	24.0	24.6
12H	25.3	26.4	25.8	26.9	27.5	22.3	23.4	22.9	24.0	24.6
X=4H Y=2H	21.3	22.6	21.9	23.1	23.7	20.5	21.7	21.0	22.2	22.8
3H	23.6	24.7	24.2	25.3	25.9	22.3	23.4	22.8	23.9	24.5
4H	24.7	25.6	25.2	26.2	26.8	22.9	23.9	23.5	24.5	25.1
6H	25.6	26.5	26.1	27.0	27.7	23.4	24.3	24.0	24.9	25.5
8H	26.0	26.8	26.6	27.4	28.0	23.5	24.3	24.1	24.9	25.6
12H	26.4	27.1	27.0	27.7	28.4	23.6	24.3	24.2	24.9	25.6
X=8H Y=4H	24.9	25.7	25.4	26.3	26.9	23.4	24.2	23.9	24.8	25.4
6H	25.9	26.6	26.5	27.2	27.8	23.9	24.6	24.6	25.2	25.9
8H	26.4	27.0	27.0	27.6	28.3	24.1	24.8	24.8	25.4	26.0
12H	26.9	27.4	27.5	28.0	28.8	24.3	24.8	24.9	25.4	26.1
X=12H Y=4H	24.9	25.6	25.5	26.2	26.9	23.4	24.2	24.0	24.8	25.4
6H	25.9	26.5	26.6	27.1	27.8	24.1	24.7	24.7	25.3	26.0
8H	26.5	27.0	27.1	27.6	28.3	24.3	24.8	24.9	25.5	26.2

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	0.56	0.64	0.71	0.76	0.84	0.89	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	0.93
0.50	0.50	0.20	0.53	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94
	0.30		0.47	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.91
	0.20		0.42	0.49	0.56	0.62	0.69	0.75	0.79	0.85	0.88
0.30	0.50	0.20	0.51	0.58	0.65	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: 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	0.97	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		0.69	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.92	0.78	0.67	0.58	0.47	0.42	0.34	0.26	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	0.39	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	0.20	
	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	0.32	0.28	0.23	0.19	
0.00	0.00	0.00	0.54	0.48	0.41	0.37	0.30	0.25	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	0.27	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	0.26	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	0.26
	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
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											