

Report No.:

Test Time: 2018/4/18 15:06

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGBW (R)

Luminaire Description: DMX RIBBONLYTE RGBW (R)

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: 85.4 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H122.9

Vertical Diffuse Angle(50%): V110.7

Luminaire Efficacy Rating (LER): 15

Max. Intensity: 25.64 cd

Total Rated Lamp Lumens: 85.4 lm

Efficiency: 100%

Upward Ratio: 8%

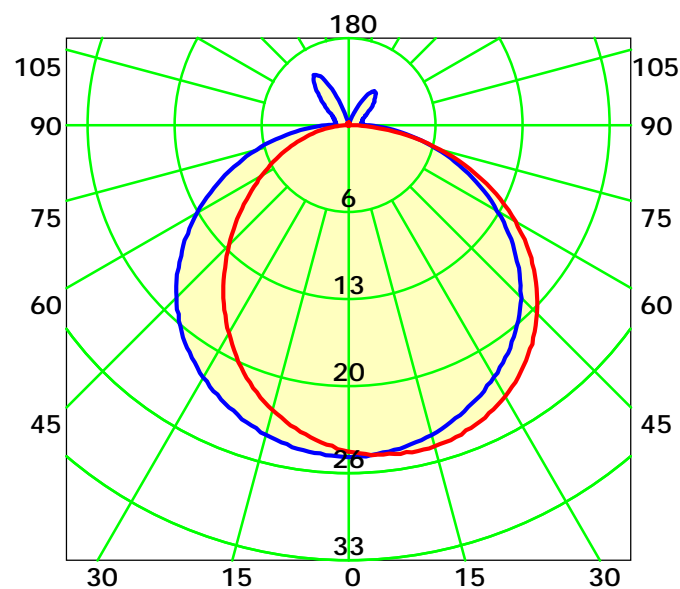
Central Intensity: 25.53 cd

Pos of Max. Intensity: H90 V11

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 116.8° 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

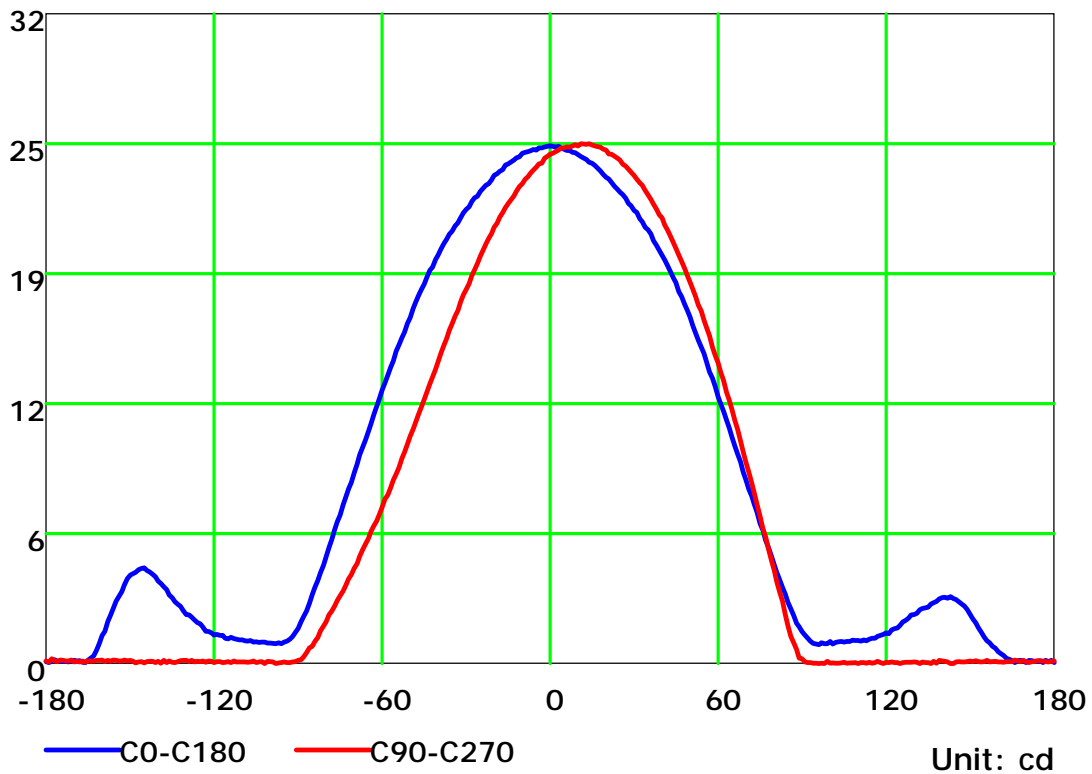
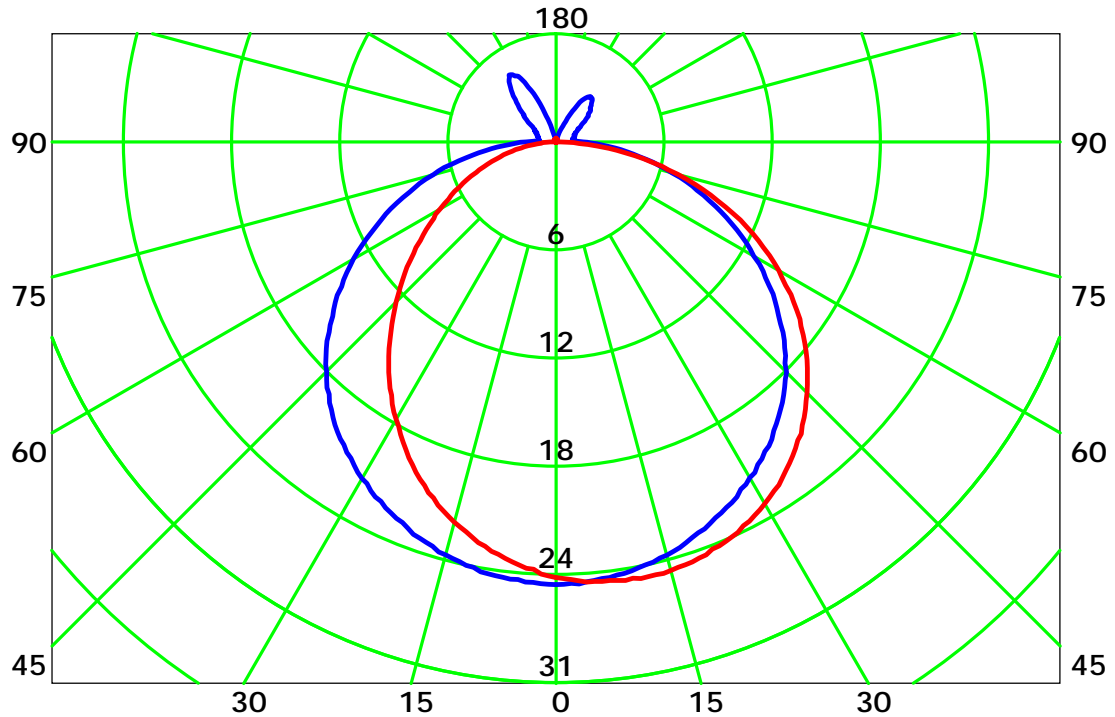
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

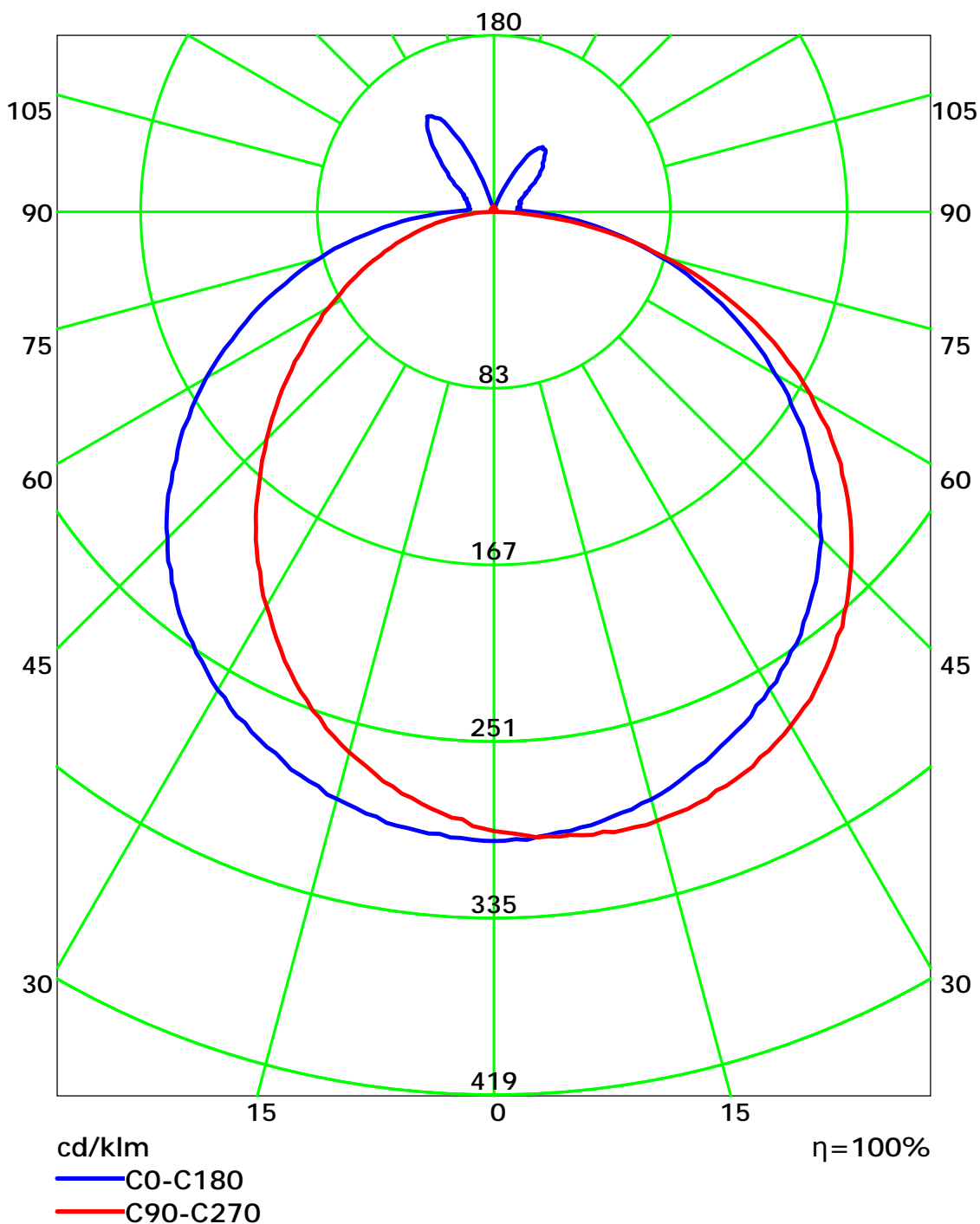
## Luminous Intensity Distribution Curve



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:

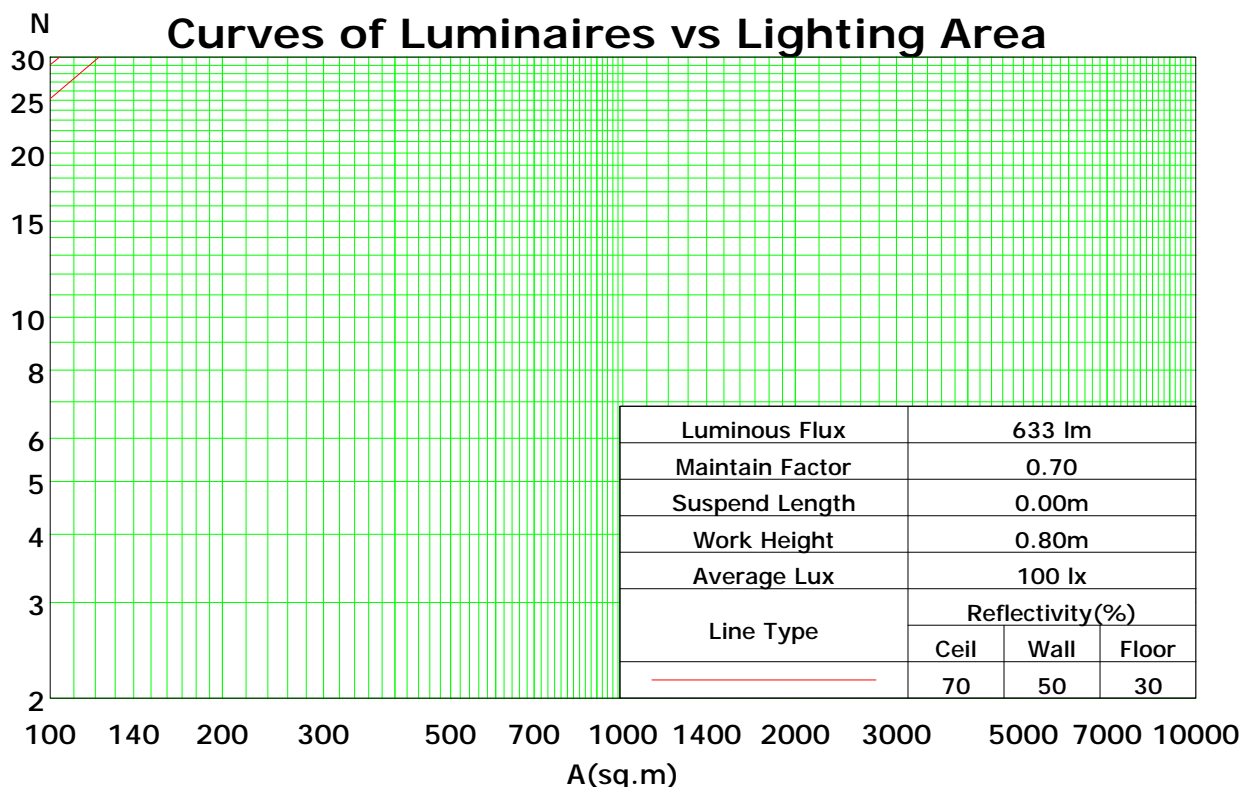
## Coefficients Of Utilization - Zonal Cavity Method

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	113	113	113	113	107	107	107	100	100	100	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	93	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	63	58	54	51
4	80	67	58	51	77	65	57	51	62	55	49	59	52	48	56	50	46	44
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	33
7	62	49	40	34	60	47	39	33	45	38	32	43	36	32	41	35	31	29
8	58	44	36	30	56	43	35	29	41	34	29	39	33	28	38	32	28	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	27	22	21

Spacing Criteria (0-180): 1.31

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.40



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

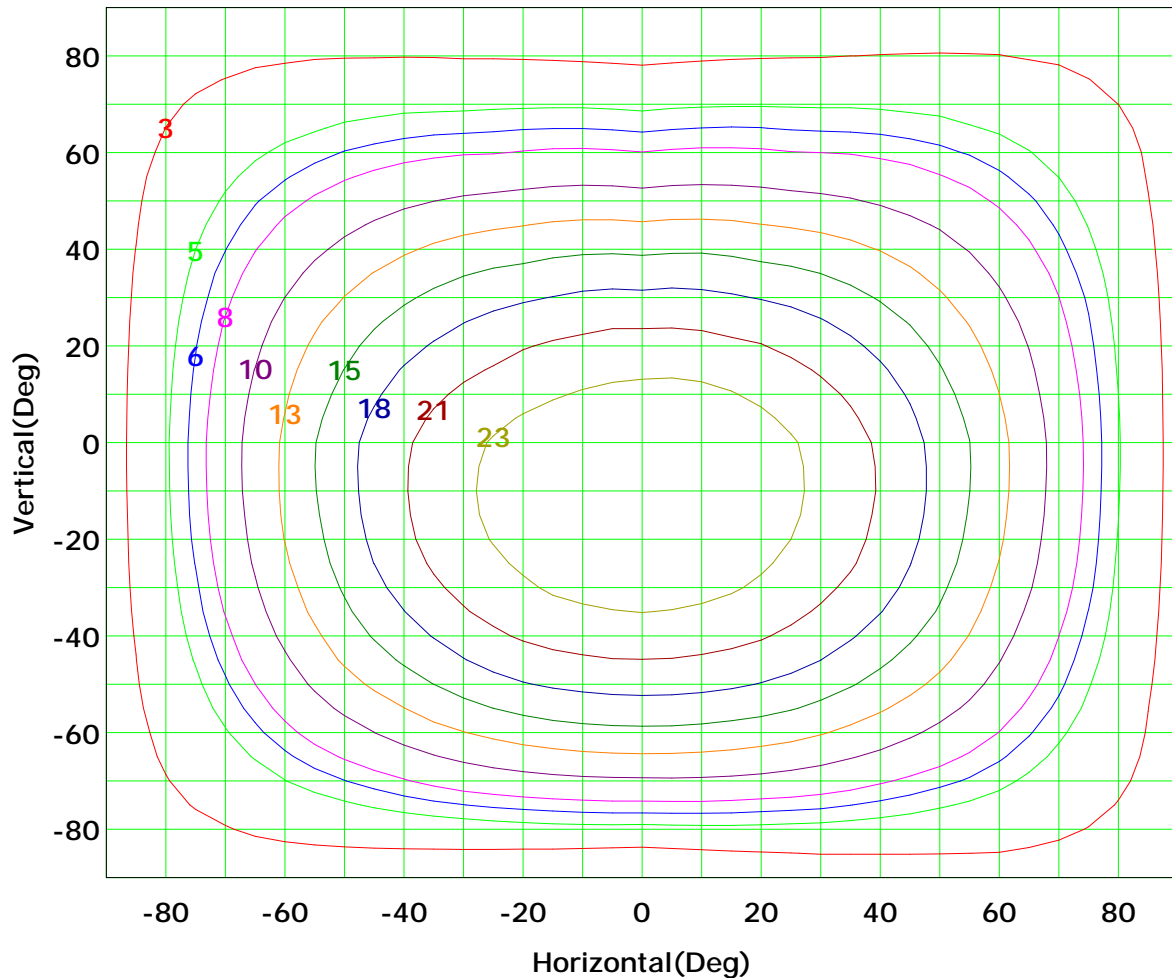
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



Imax (100%): 26 cd

( 10%):	3 cd	( 20%):	5 cd
( 25%):	6 cd	( 30%):	8 cd
( 40%):	10 cd	( 50%):	13 cd
( 60%):	15 cd	( 70%):	18 cd
( 80%):	21 cd	( 90%):	23 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

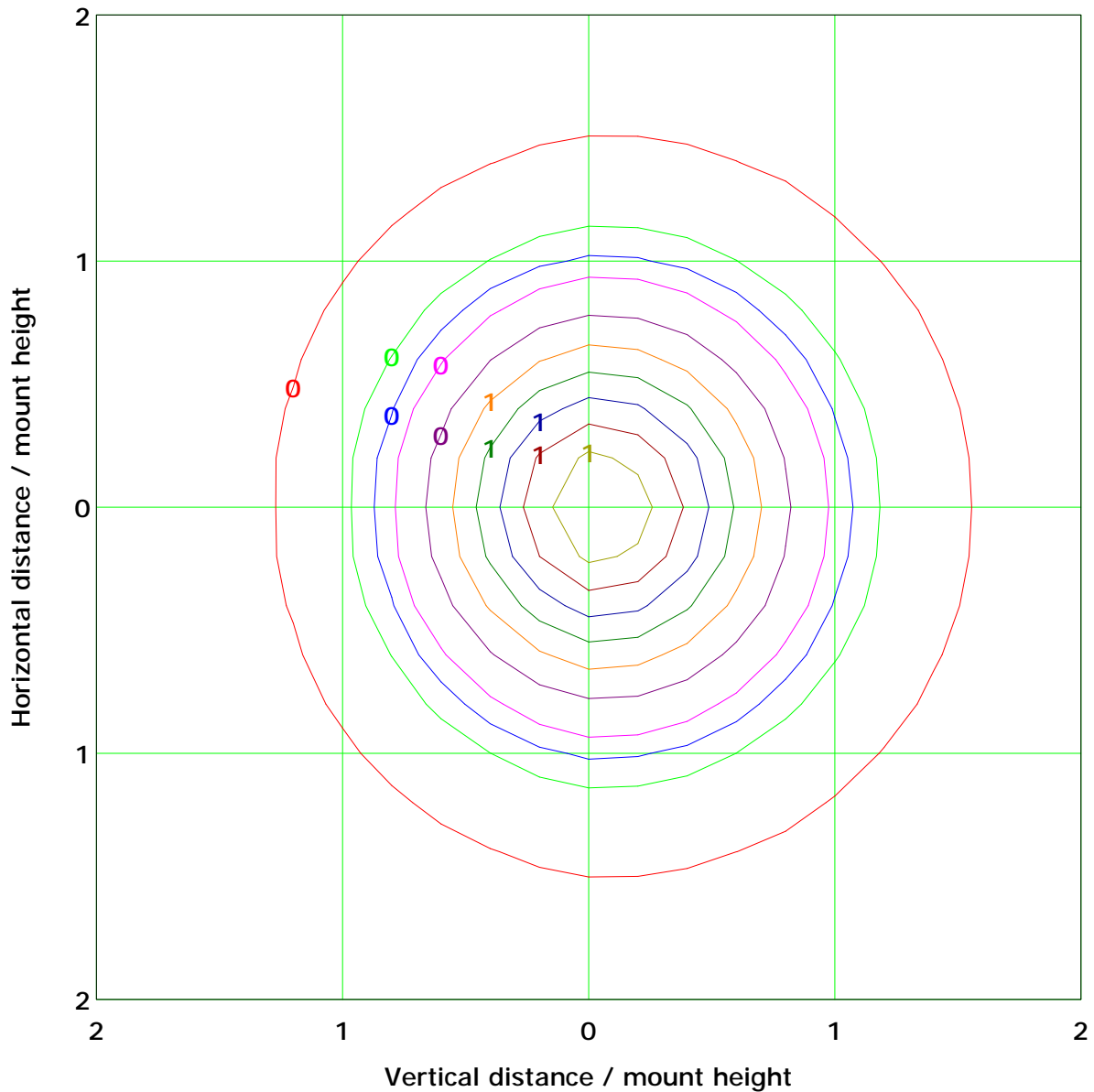
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 1.0 lx

( 10%): 0.1 lx	( 20%): 0.2 lx
( 25%): 0.3 lx	( 30%): 0.3 lx
( 40%): 0.4 lx	( 50%): 0.5 lx
( 60%): 0.6 lx	( 70%): 0.7 lx
( 80%): 0.8 lx	( 90%): 0.9 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

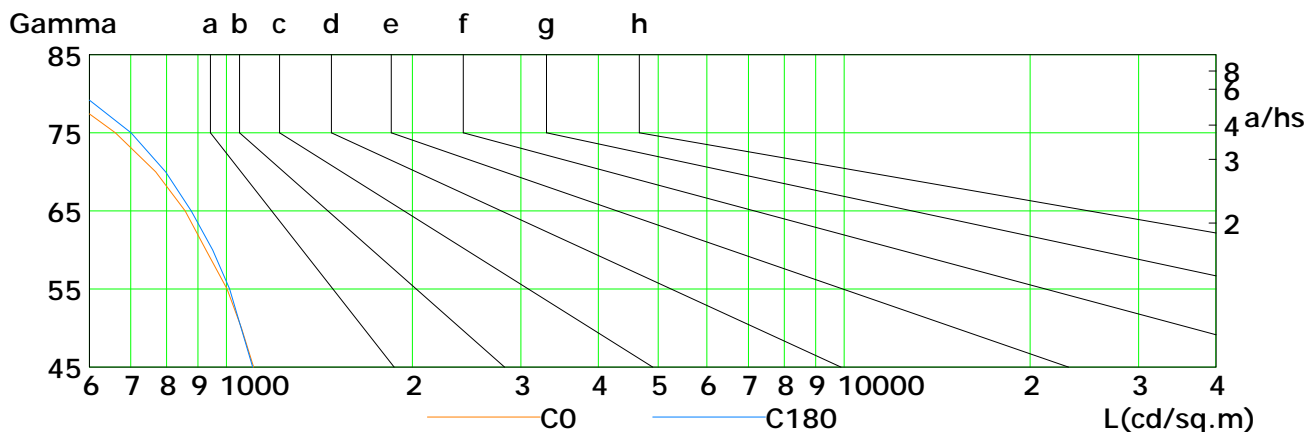
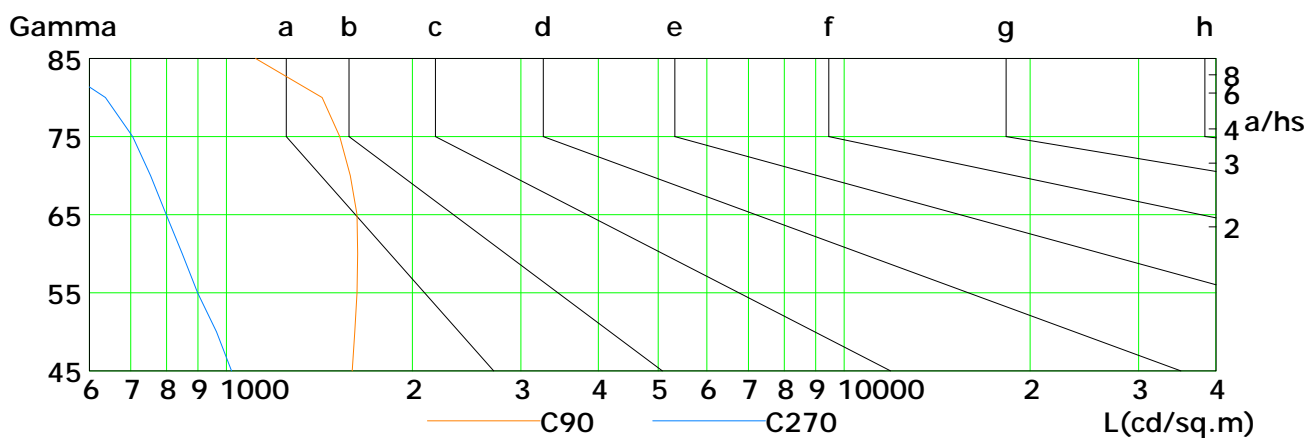
Humidity: 60%

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	1108	1058	1003	927	858	768	661	541	400
C90	1599	1615	1627	1632	1628	1587	1526	1429	1115
C180	1104	1057	1012	950	877	798	701	582	453
C270	1019	964	899	849	799	754	705	637	513

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

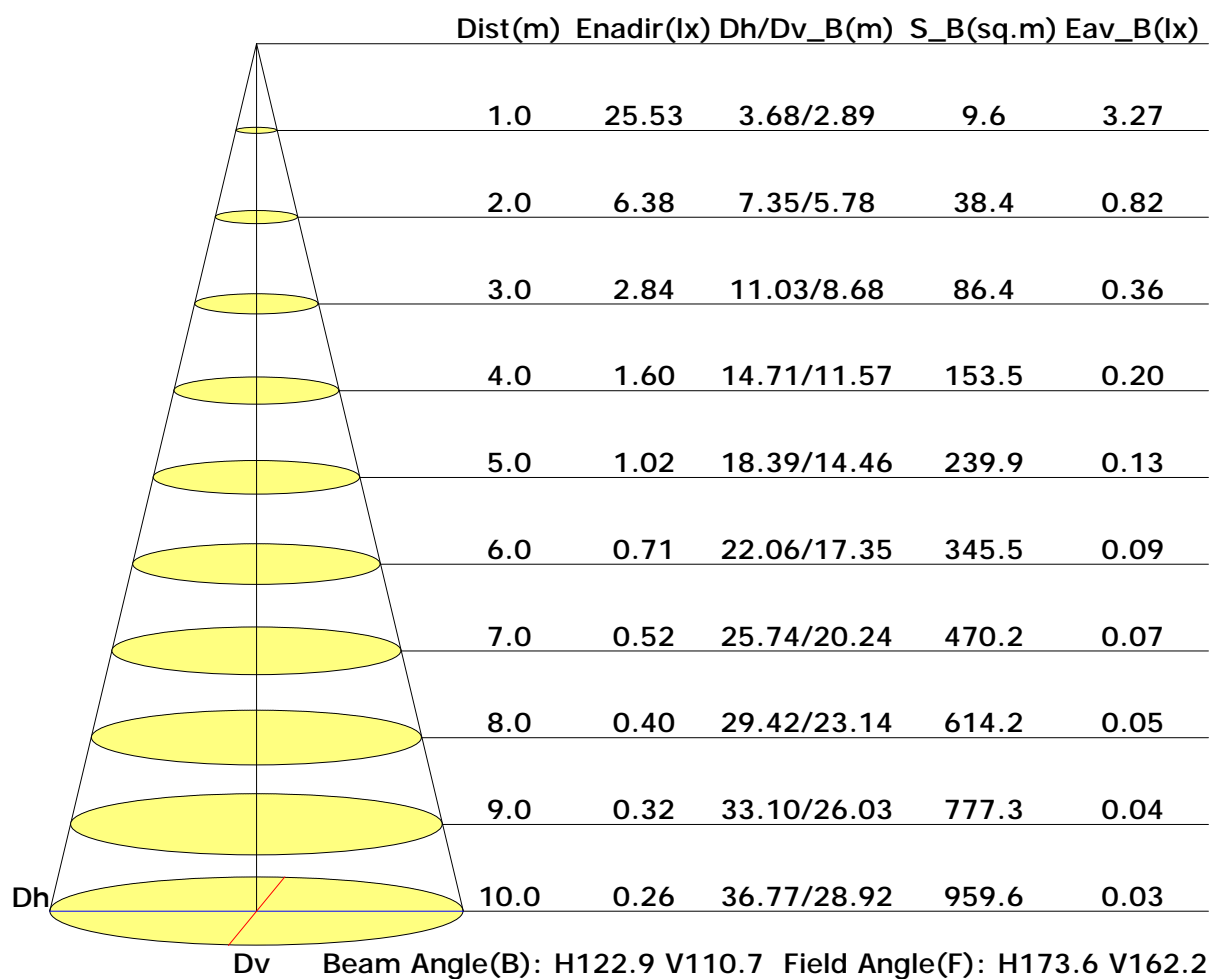
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

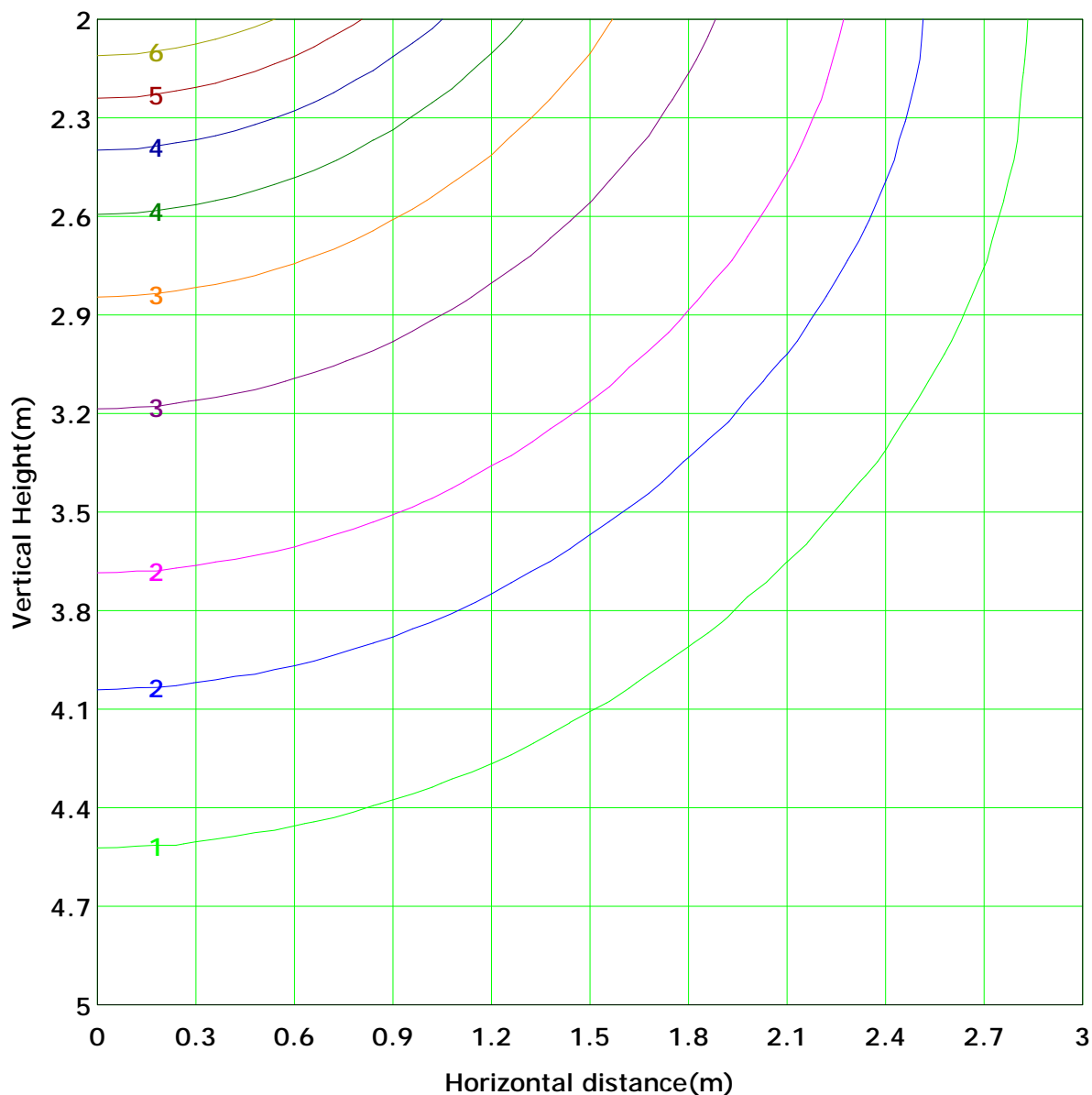
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 6.4 lx
( 10%): 0.6 lx	( 20%): 1.3 lx	( 30%): 1.9 lx
( 25%): 1.6 lx	( 50%): 3.2 lx	( 70%): 4.5 lx
( 40%): 2.6 lx	( 90%): 5.7 lx	
( 60%): 3.8 lx		
( 80%): 5.1 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(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	0.1
	-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	0.1	0.7
	-70	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	0.7	1.7
	-60	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	1.7	3.0
	-50	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	3.1	4.5
	-40	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	4.5	5.9
	-30	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	5.9	7.0
	-20	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	7.0	7.9
	-10	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	7.9	8.3
	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	8.3	8.3
	10	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	8.3	7.8
	20	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	7.8	7.0
	30	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	7.0	5.8
	40	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	5.8	4.4
	50	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	4.4	2.9
	60	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	2.9	1.6
	70	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	1.6	0.6
	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	0.6	0.1
	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	0.1
	Flux(T)	0.1	0.7	1.7	3.1	4.5	5.9	7.0	7.9	8.3	8.3	7.8	7.0	5.8	4.4	2.9	1.6	0.6	0.1	0.1	79	78
	Flux(E)	0.1	0.7	1.7	3.0	4.5	5.9	7.0	7.9	8.3	8.3	7.8	7.0	5.8	4.4	2.9	1.6	0.6	0.1	0.1		

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

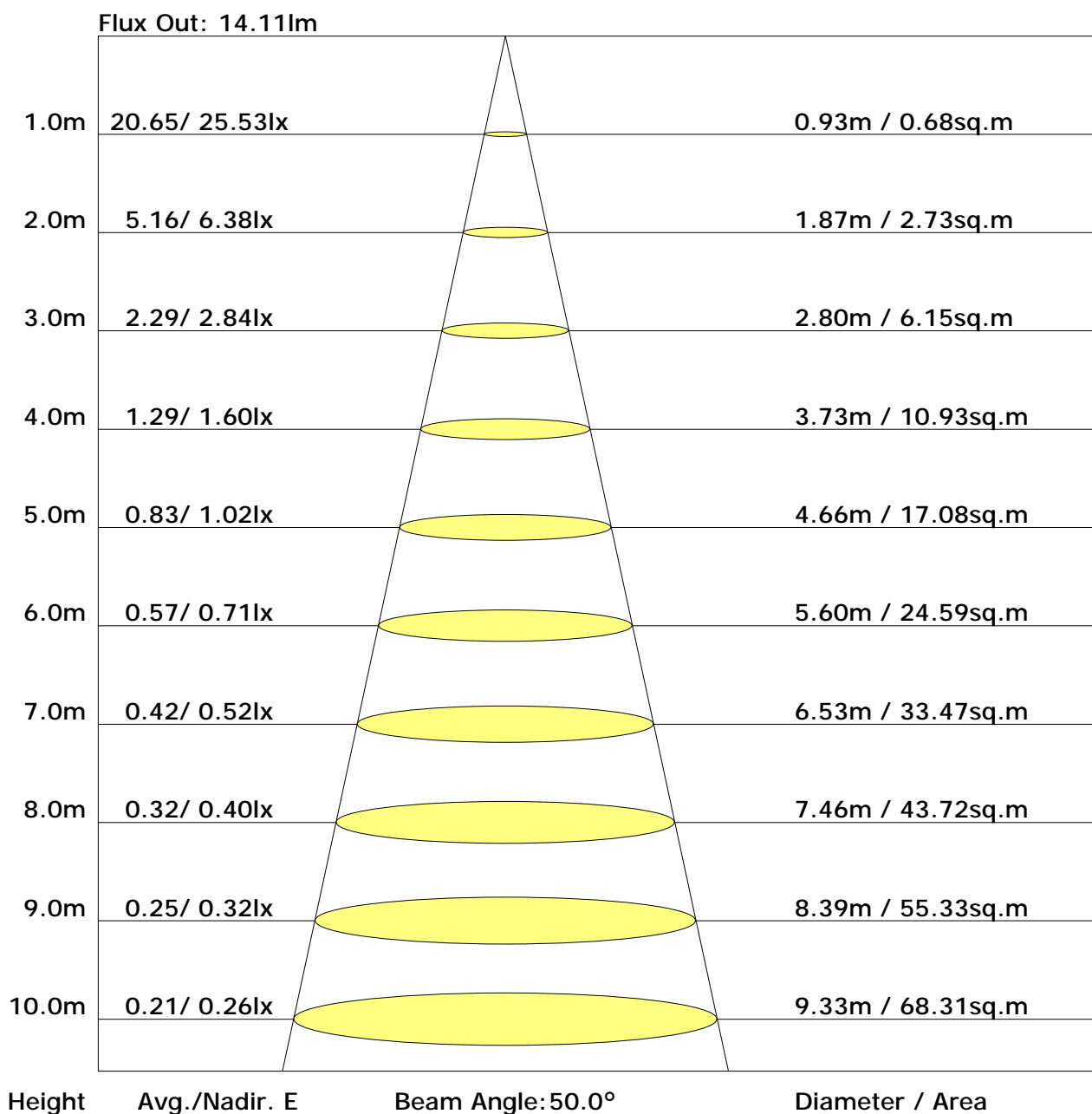
Test Device: GPM-1800B

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	21.5	23.0	23.5	21.2	22.7	21.6	23.1	23.6
3H	23.1	24.5	23.6	25.0	25.5	22.9	24.3	23.4	24.7	25.3
4H	24.0	25.3	24.5	25.8	26.4	23.5	24.8	24.0	25.3	25.9
6H	24.8	26.0	25.3	26.5	27.1	23.9	25.1	24.5	25.6	26.2
8H	25.1	26.3	25.7	26.8	27.4	24.0	25.2	24.6	25.7	26.3
12H	25.4	26.5	26.0	27.1	27.7	24.1	25.2	24.6	25.7	26.3
X=4H Y=2H	21.5	22.8	22.0	23.3	23.8	21.8	23.1	22.4	23.6	24.2
3H	23.8	24.9	24.3	25.4	26.0	23.8	24.9	24.3	25.4	26.0
4H	24.8	25.8	25.4	26.3	27.0	24.5	25.5	25.1	26.1	26.7
6H	25.7	26.6	26.3	27.2	27.8	25.1	25.9	25.6	26.5	27.2
8H	26.1	26.9	26.7	27.5	28.1	25.2	26.0	25.8	26.6	27.3
12H	26.5	27.2	27.1	27.8	28.5	25.3	26.0	25.9	26.6	27.3
X=8H Y=4H	25.0	25.8	25.6	26.4	27.0	24.9	25.7	25.5	26.3	27.0
6H	26.0	26.7	26.6	27.3	28.0	25.6	26.3	26.2	26.9	27.5
8H	26.5	27.1	27.1	27.7	28.4	25.8	26.4	26.4	27.0	27.7
12H	27.0	27.5	27.6	28.1	28.9	25.9	26.5	26.5	27.1	27.8
X=12H Y=4H	25.0	25.7	25.6	26.3	27.0	25.0	25.7	25.6	26.3	27.0
6H	26.1	26.7	26.7	27.3	28.0	25.7	26.3	26.3	26.9	27.6
8H	26.6	27.1	27.2	27.7	28.5	25.9	26.5	26.6	27.1	27.8

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	0.77	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		0.43	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	0.62	0.67	0.74	0.79	0.83	0.88	0.91
	0.20		0.42	0.49	0.57	0.62	0.70	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	0.53	0.59	0.64	0.71	0.76	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	0.45	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	0.70	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.81	0.71	0.61	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.69	0.62	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.92	0.78	0.66	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	0.31	0.25	0.21	
	0.20		0.67	0.60	0.52	0.47	0.39	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.87	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	0.34	0.30	0.24	0.20	
	0.20		0.65	0.58	0.51	0.45	0.38	0.32	0.28	0.23	0.19	
0.00	0.00	0.00	0.54	0.48	0.41	0.36	0.30	0.25	0.22	0.17	0.14	
<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	0.29	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	0.17	0.19	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	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.23
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	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	0.14	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: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>											