



Acolyte LED  
www.acolyteled.com  
Tel: +86 755 85290710  
Fax: +86 755 85290710

Complete Integrated LED Lighting Solutions

Page 1 of 15 Pages

Report No.:

Test Time: 2018/1/8 11:34

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGB (R)

Luminaire Description: DMX RIBBONLYTE RGB (R)

Luminous Length (mm): 1000

Luminous Width (mm): 18

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.231 A

Power: 5.54 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 83.7 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H119.8

Vertical Diffuse Angle(50%): V115.3

Luminaire Efficacy Rating (LER): 15

Max. Intensity: 26.35 cd

Total Rated Lamp Lumens: 83.7 lm

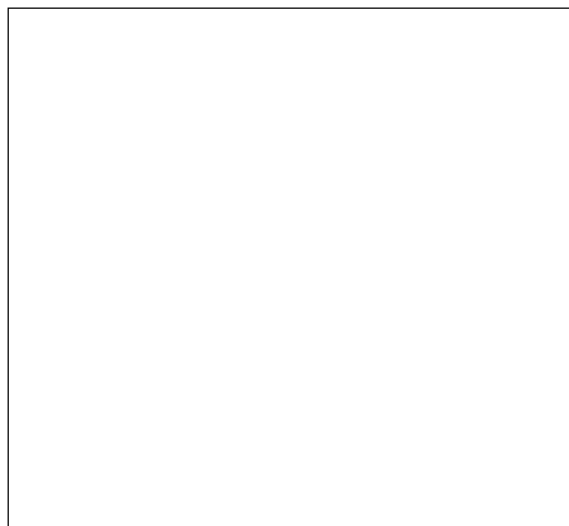
Efficiency: 100%

Upward Ratio: 2%

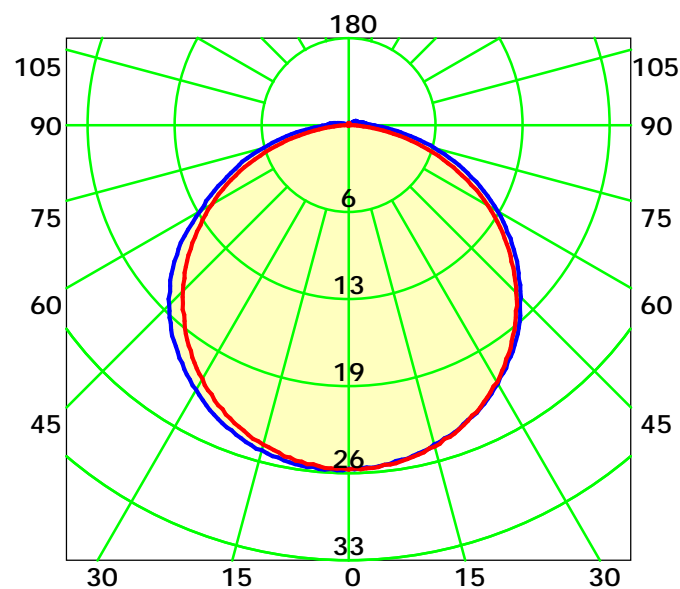
Central Intensity: 26.21 cd

Pos of Max. Intensity: H180 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 117.6° 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

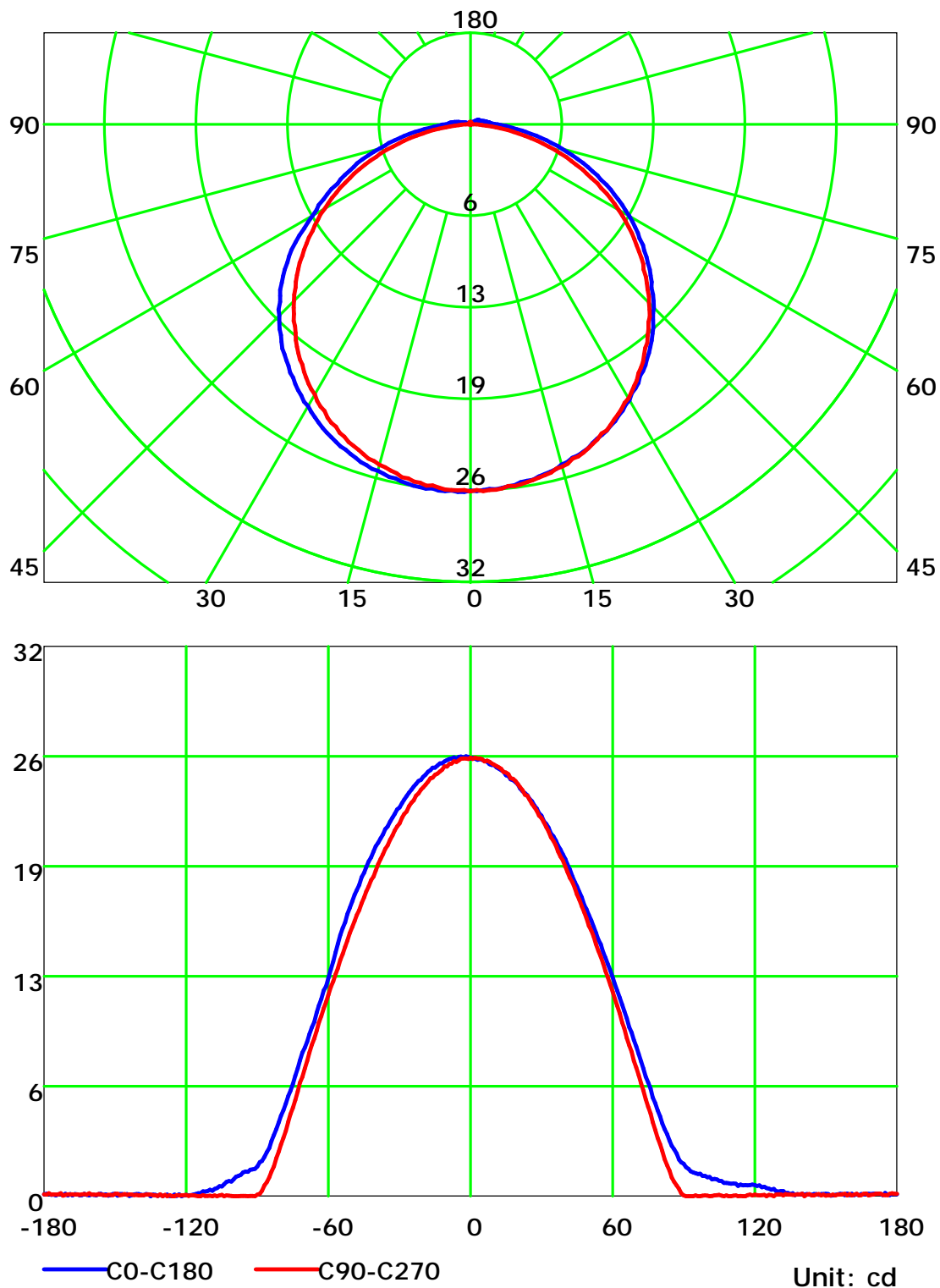
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

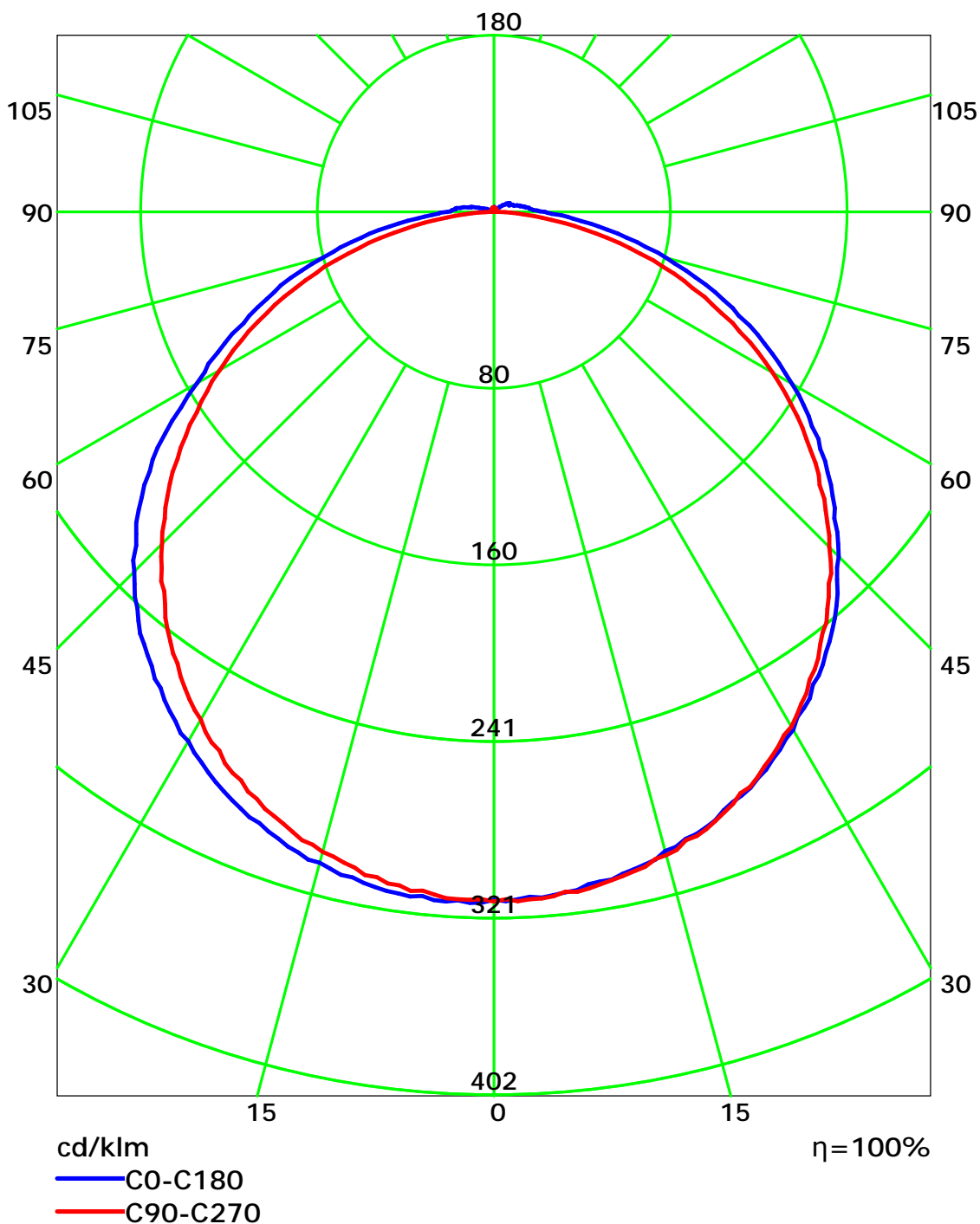
## Luminous Intensity Distribution Curve



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:



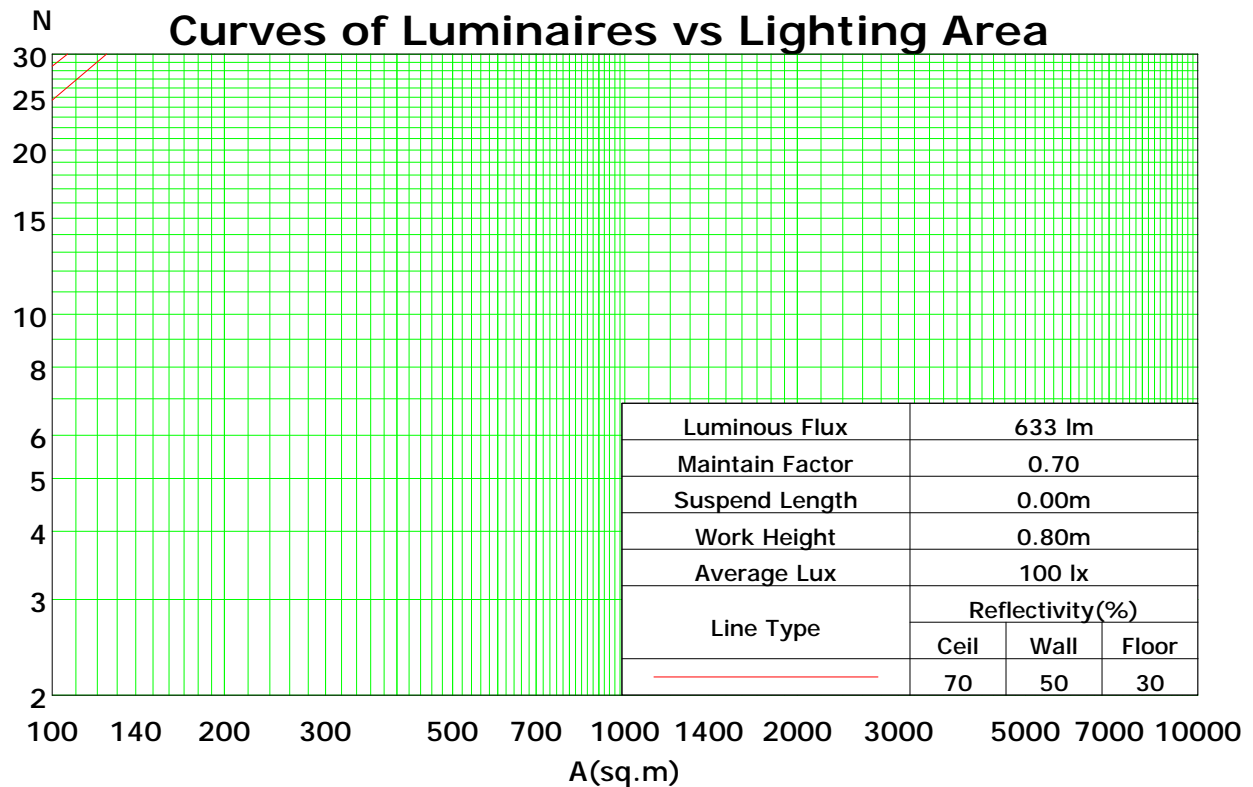
## Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	107	102	98	93	104	100	95	92	95	92	88	91	88	85	87	84	82	80
2	97	88	81	75	94	86	80	74	82	77	72	79	74	70	75	72	68	66
3	88	77	69	62	86	76	68	61	72	65	60	69	63	59	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	47
5	74	61	52	45	72	60	51	44	57	49	44	55	48	43	53	47	42	40
6	68	55	45	39	66	54	45	39	51	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	37	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.31

Spacing Criteria (90-270): 1.27

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

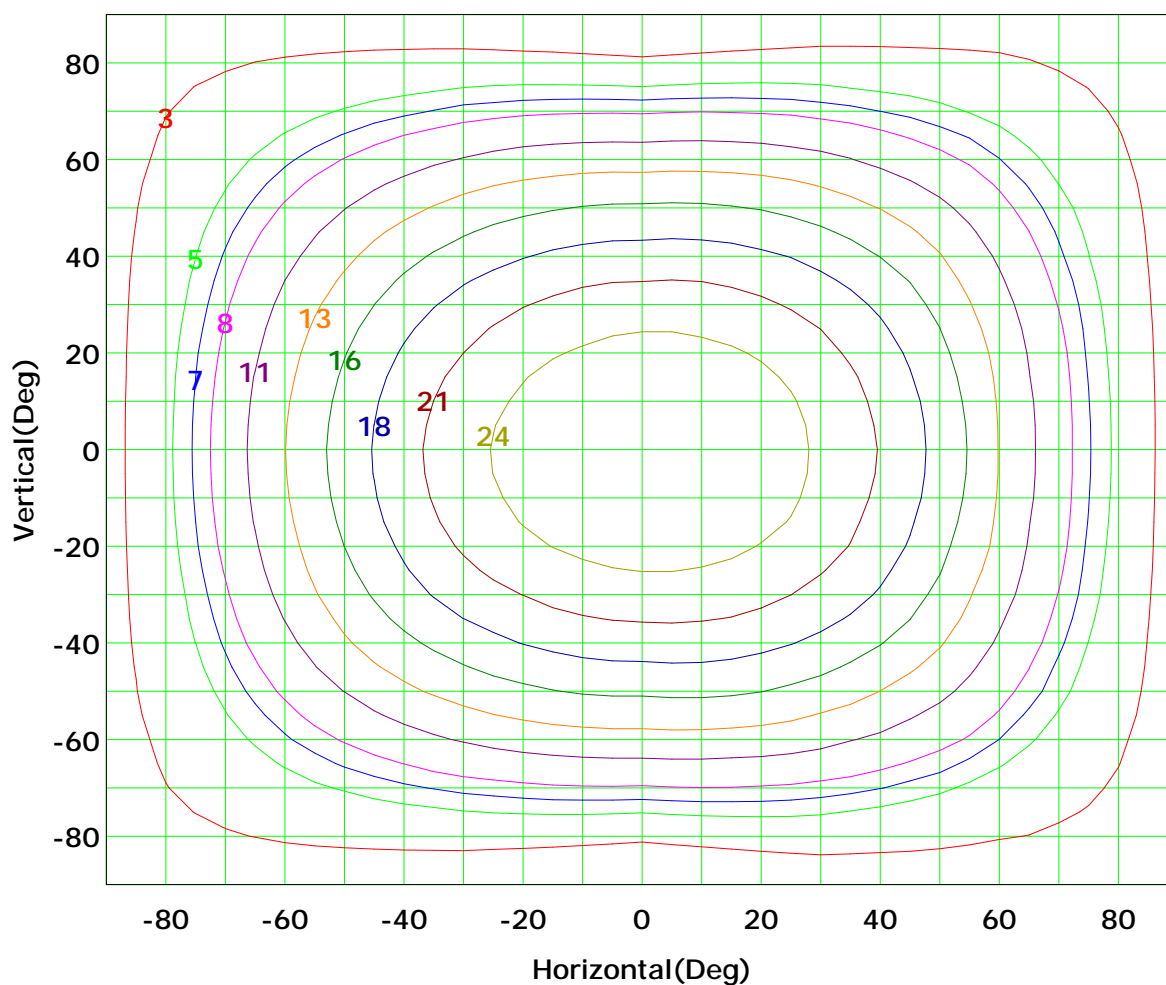
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



Imax (100%): 26 cd

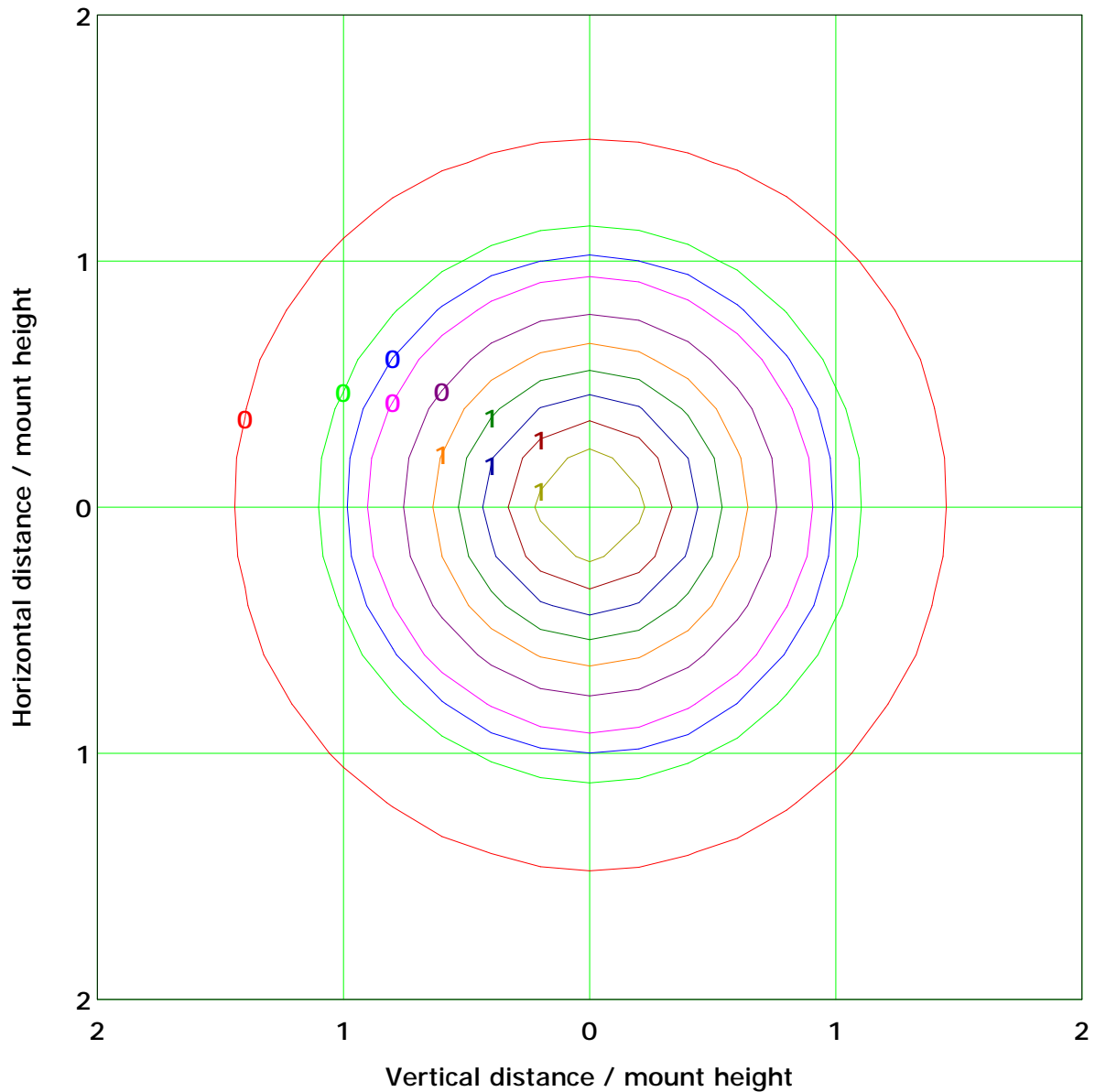
( 10%):	3 cd	( 20%):	5 cd
( 25%):	7 cd	( 30%):	8 cd
( 40%):	11 cd	( 50%):	13 cd
( 60%):	16 cd	( 70%):	18 cd
( 80%):	21 cd	( 90%):	24 cd

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%): 1.1 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

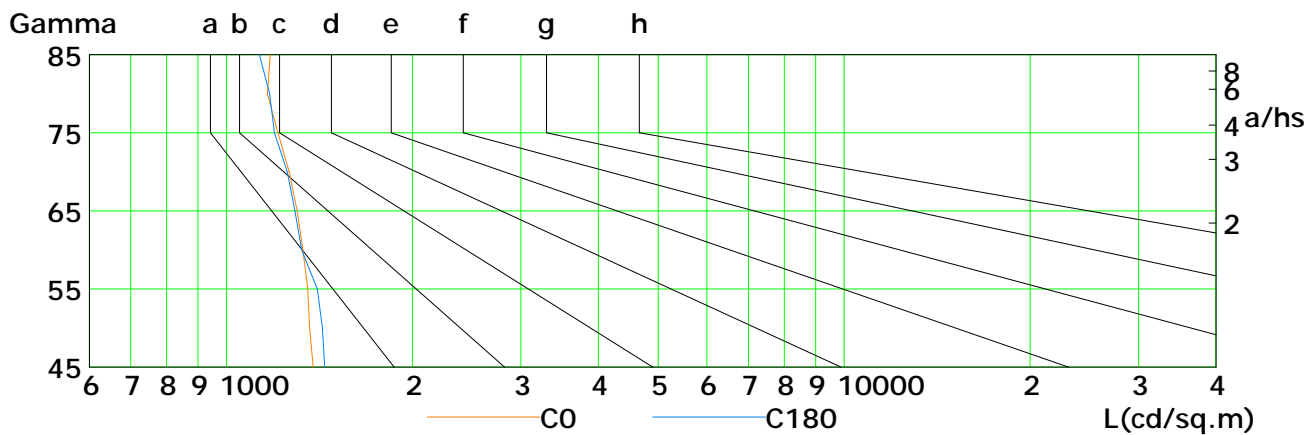
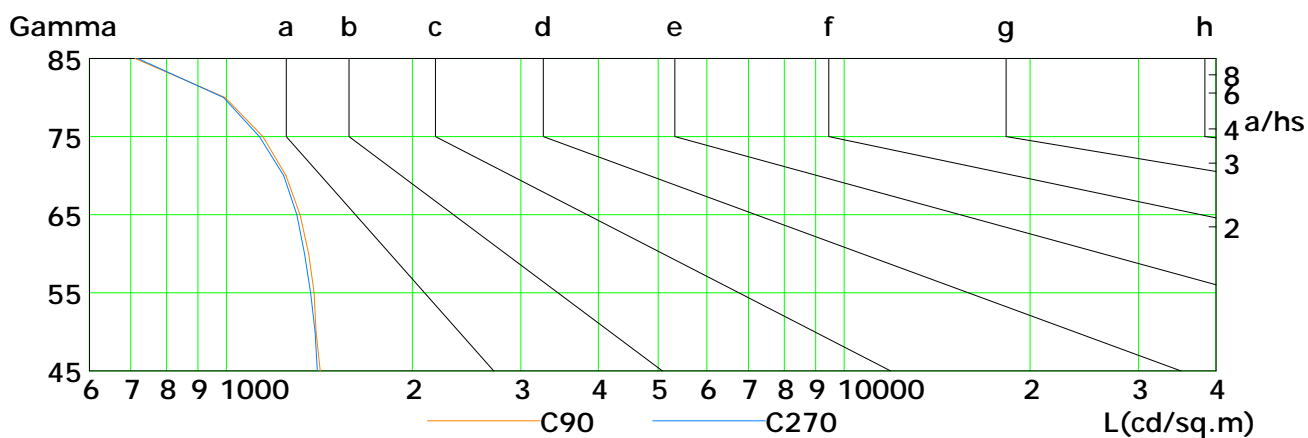
C Plane (°):0.0-360.0: 30.0  
Test Lab: acolyteled  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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



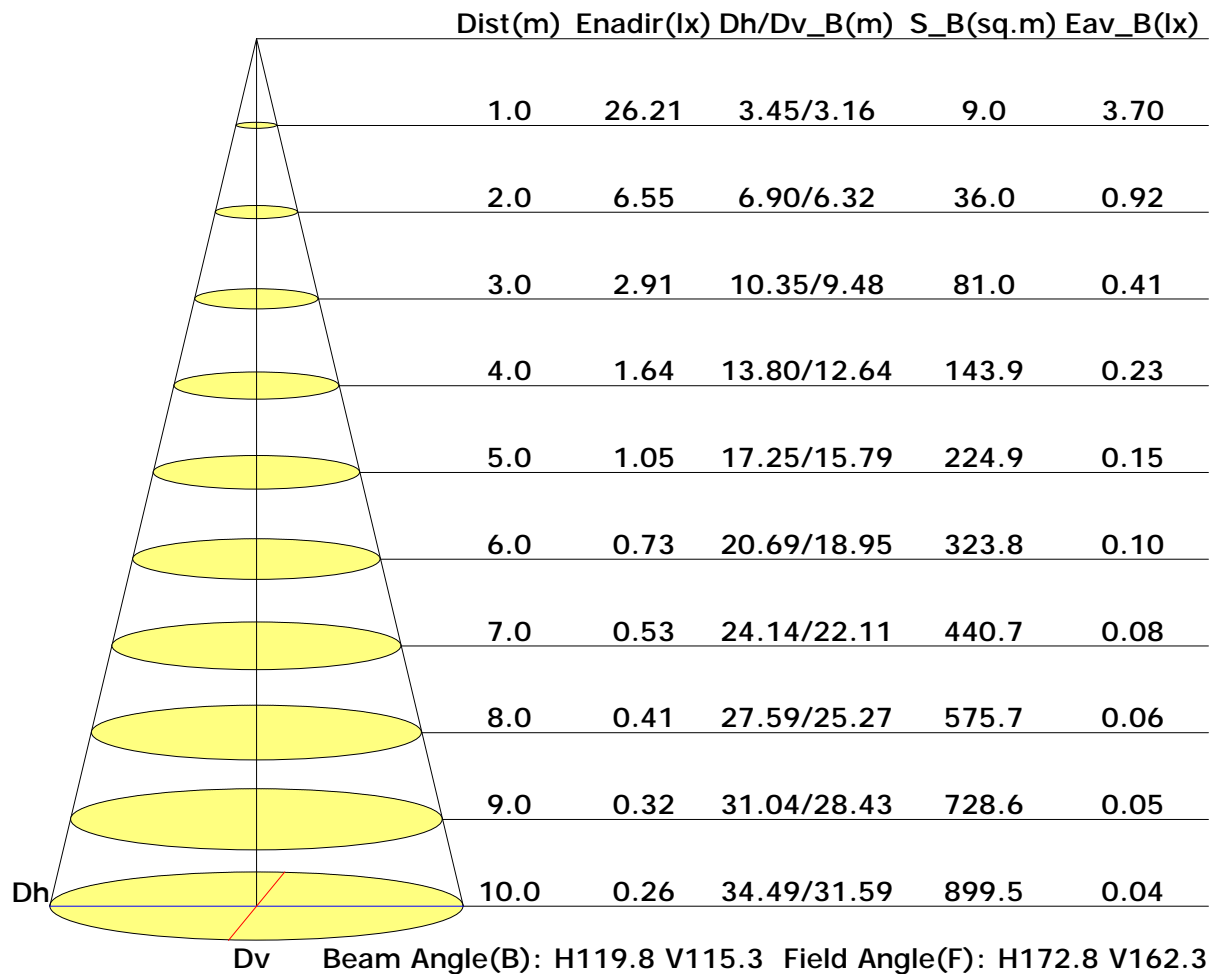
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1382	1365	1354	1330	1303	1264	1213	1165	1177
C90	1418	1398	1387	1360	1317	1249	1146	996	712
C180	1442	1432	1404	1325	1292	1254	1197	1175	1131
C270	1404	1392	1369	1338	1301	1239	1131	989	718

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



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

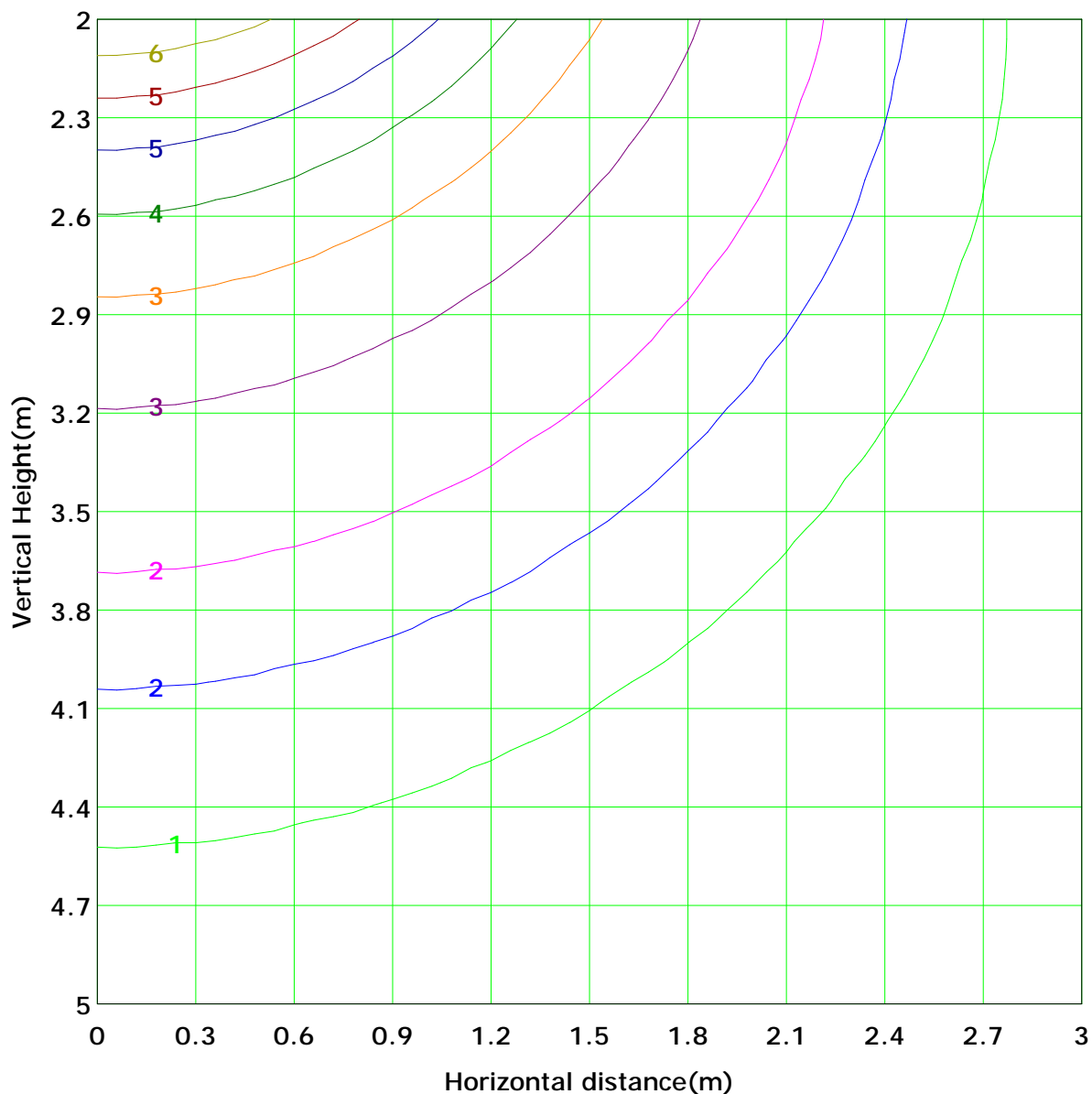
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 6.6 lx
( 10%): 0.7 lx	( 20%): 1.3 lx	
( 25%): 1.6 lx	( 30%): 2.0 lx	
( 40%): 2.6 lx	( 50%): 3.3 lx	
( 60%): 3.9 lx	( 70%): 4.6 lx	
( 80%): 5.2 lx	( 90%): 5.9 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:



A C O L Y T E

Acolyte LED

www.acolyteled.com

Tel: +86 755 85290710

Fax: +86 755 85290710

Complete Integrated LED Lighting Solutions

Page 10 of 15 Pages

## 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	0.7	0.6
	-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	1.7	1.6
	-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	3.1	3.1
	-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	4.7	4.7
	-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	6.3	6.2
	-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	7.6	7.5
	-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	8.4	8.4
	-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	8.8	8.8
	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	8.7
	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	8.2
	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	7.3	7.3
	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	6.0	6.0
	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	4.5
	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	3.0	3.0
	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	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	0.7	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	0.1	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	82	81

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

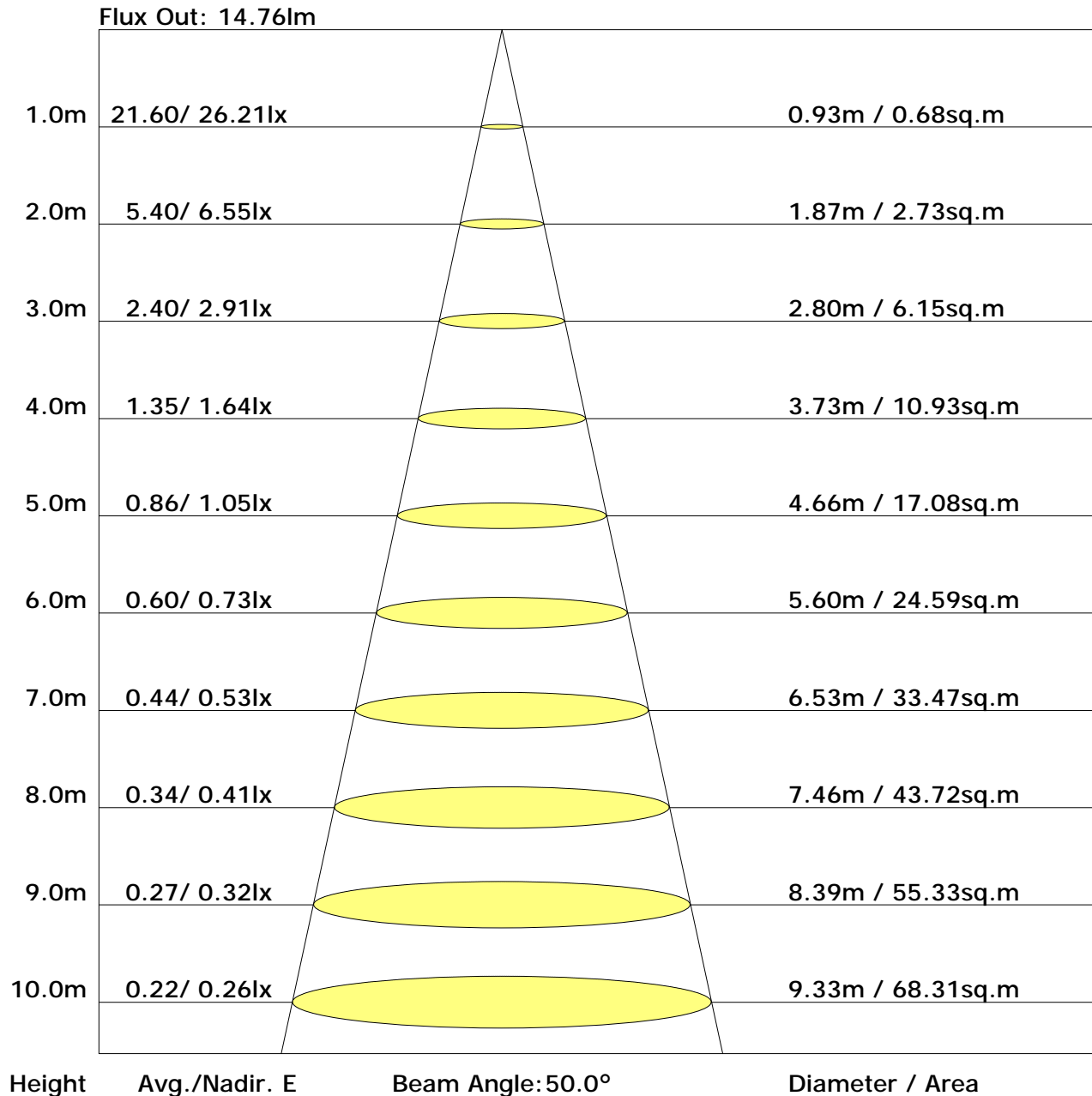
Distance: 9.028 m

Humidity: 60%

Inspector:



## The Average Illuminance Effective Figure



## UGR Table

<b>Reflectance:</b>										
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
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
X=2H Y=2H	21.9	23.5	22.3	23.9	24.2	21.5	23.2	21.9	23.5	23.9
3H	24.0	25.4	24.4	25.8	26.2	23.3	24.8	23.7	25.2	25.6
4H	24.8	26.2	25.2	26.6	27.0	24.0	25.4	24.4	25.8	26.2
6H	25.6	26.9	26.0	27.3	27.7	24.4	25.7	24.8	26.1	26.5
8H	25.9	27.1	26.4	27.6	28.0	24.5	25.8	25.0	26.2	26.6
12H	26.2	27.4	26.7	27.8	28.3	24.6	25.8	25.0	26.2	26.7
X=4H Y=2H	22.5	23.9	22.9	24.3	24.7	22.3	23.7	22.7	24.1	24.5
3H	24.8	26.0	25.2	26.4	26.9	24.3	25.5	24.7	25.9	26.4
4H	25.8	26.9	26.3	27.3	27.8	25.1	26.2	25.5	26.6	27.1
6H	26.7	27.7	27.2	28.1	28.6	25.7	26.6	26.1	27.1	27.6
8H	27.1	28.0	27.6	28.5	29.0	25.8	26.7	26.3	27.2	27.7
12H	27.5	28.3	28.0	28.8	29.4	25.9	26.7	26.4	27.2	27.7
X=8H Y=4H	26.1	27.0	26.6	27.5	28.0	25.5	26.4	26.0	26.9	27.4
6H	27.2	27.9	27.7	28.5	29.0	26.2	27.0	26.8	27.5	28.0
8H	27.7	28.4	28.2	28.9	29.4	26.5	27.2	27.1	27.7	28.3
12H	28.2	28.8	28.8	29.4	30.0	26.7	27.3	27.2	27.8	28.4
X=12H Y=4H	26.2	27.0	26.7	27.5	28.0	25.6	26.4	26.1	26.9	27.4
6H	27.3	27.9	27.8	28.4	29.0	26.4	27.1	26.9	27.6	28.1
8H	27.8	28.4	28.4	29.0	29.6	26.7	27.3	27.3	27.8	28.4

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	0.57	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02
	0.30		0.50	0.58	0.66	0.71	0.79	0.85	0.89	0.94	0.98
	0.20		0.44	0.52	0.60	0.66	0.74	0.80	0.84	0.90	0.95
0.50	0.50	0.20	0.55	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.97
	0.30		0.49	0.56	0.64	0.69	0.77	0.82	0.86	0.91	0.94
	0.20		0.44	0.51	0.59	0.64	0.72	0.78	0.82	0.87	0.91
0.30	0.50	0.20	0.54	0.61	0.68	0.72	0.79	0.83	0.86	0.90	0.93
	0.30		0.48	0.55	0.62	0.67	0.74	0.79	0.83	0.87	0.90
	0.20		0.43	0.50	0.58	0.63	0.70	0.76	0.79	0.85	0.88
0.00	0.00	0.00	0.41	0.48	0.55	0.60	0.67	0.71	0.75	0.80	0.83
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											



## 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	0.38	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	0.94	0.80	0.68	0.59	0.48	0.43	0.34	0.27	0.22
	0.30		0.79	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21
	0.20		0.69	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.30	0.50	0.20	0.91	0.76	0.65	0.57	0.45	0.38	0.33	0.25	0.21
	0.30		0.77	0.67	0.58	0.51	0.42	0.35	0.31	0.24	0.20
	0.20		0.68	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.57	0.50	0.43	0.38	0.31	0.27	0.23	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	0.18	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.19
0.50	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.13	0.14	0.15	0.16	0.18	0.18	0.20	0.20
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<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>											