



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 12:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGB (G)

Luminaire Description: DMX RIBBONLYTE RGB (G)

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: 205.7 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H117.3

Vertical Diffuse Angle(50%): V112.7

Luminaire Efficacy Rating (LER): 37

Max. Intensity: 66.52 cd

Total Rated Lamp Lumens: 205.7 lm

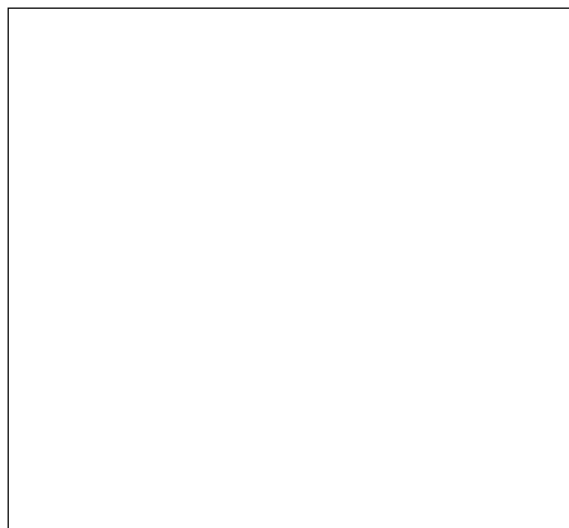
Efficiency: 100%

Upward Ratio: 2%

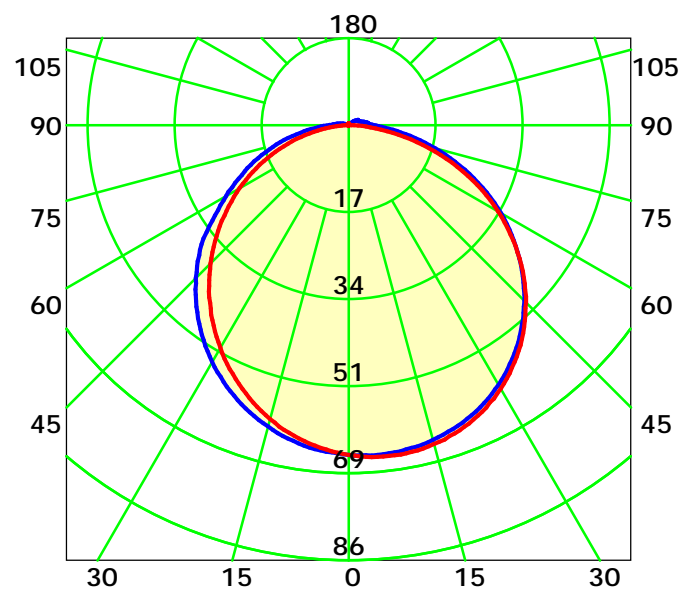
Central Intensity: 65.58 cd

Pos of Max. Intensity: H60 V10

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 115.0° 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

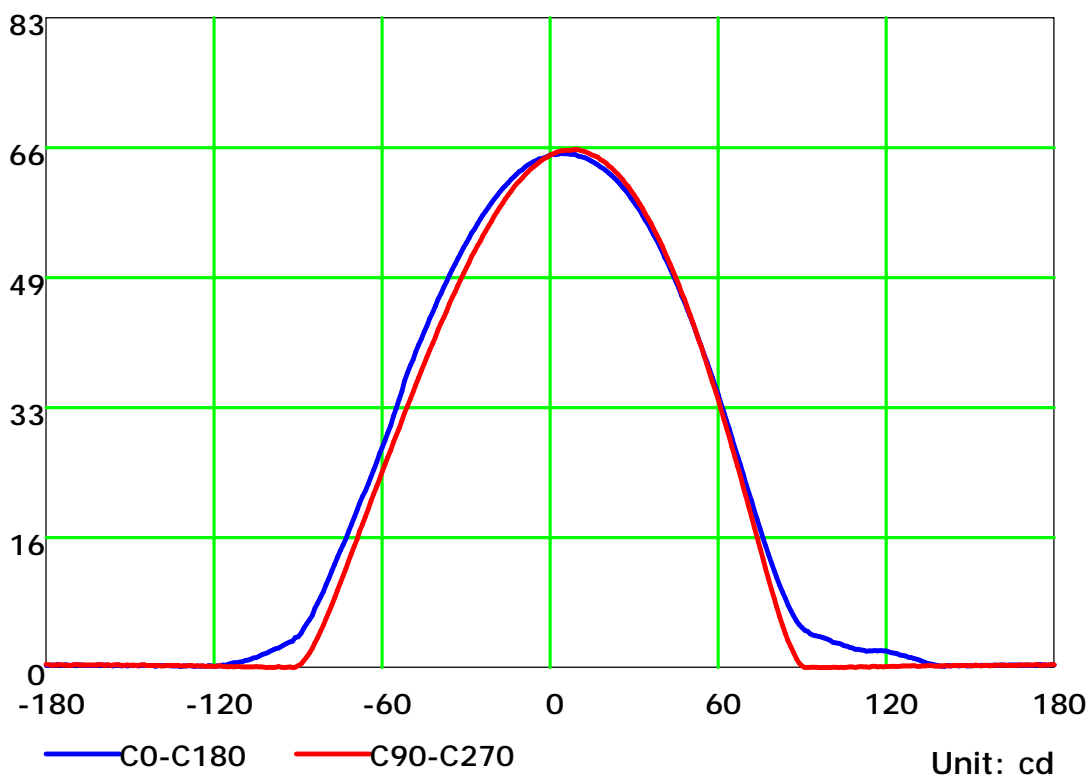
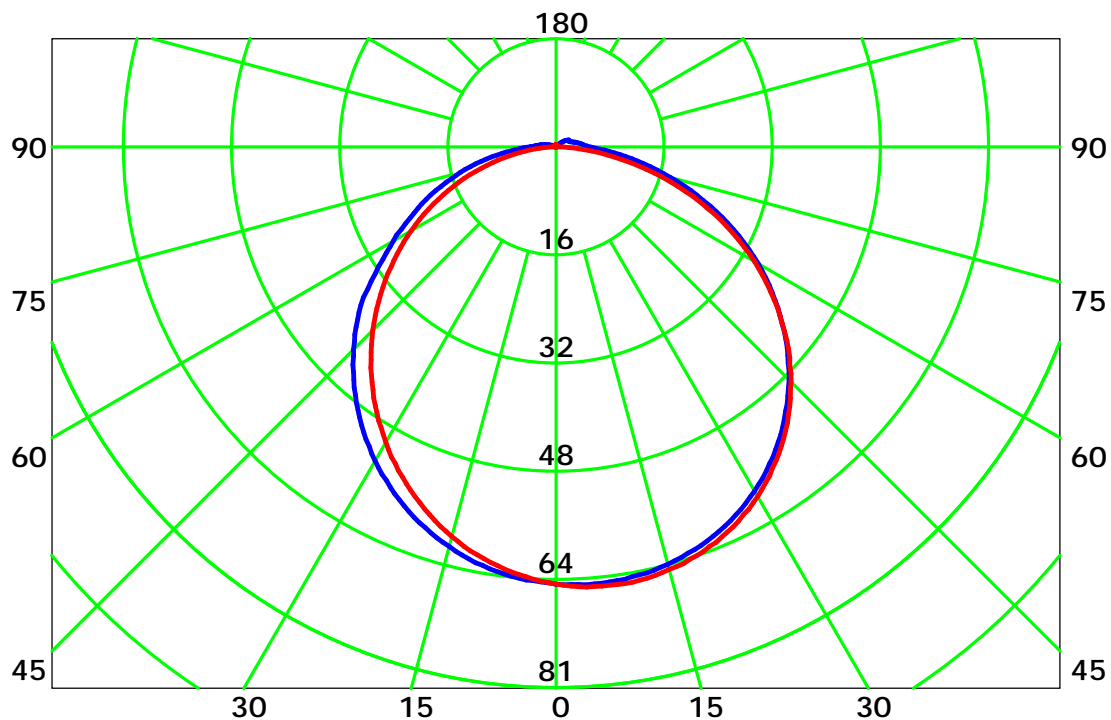
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

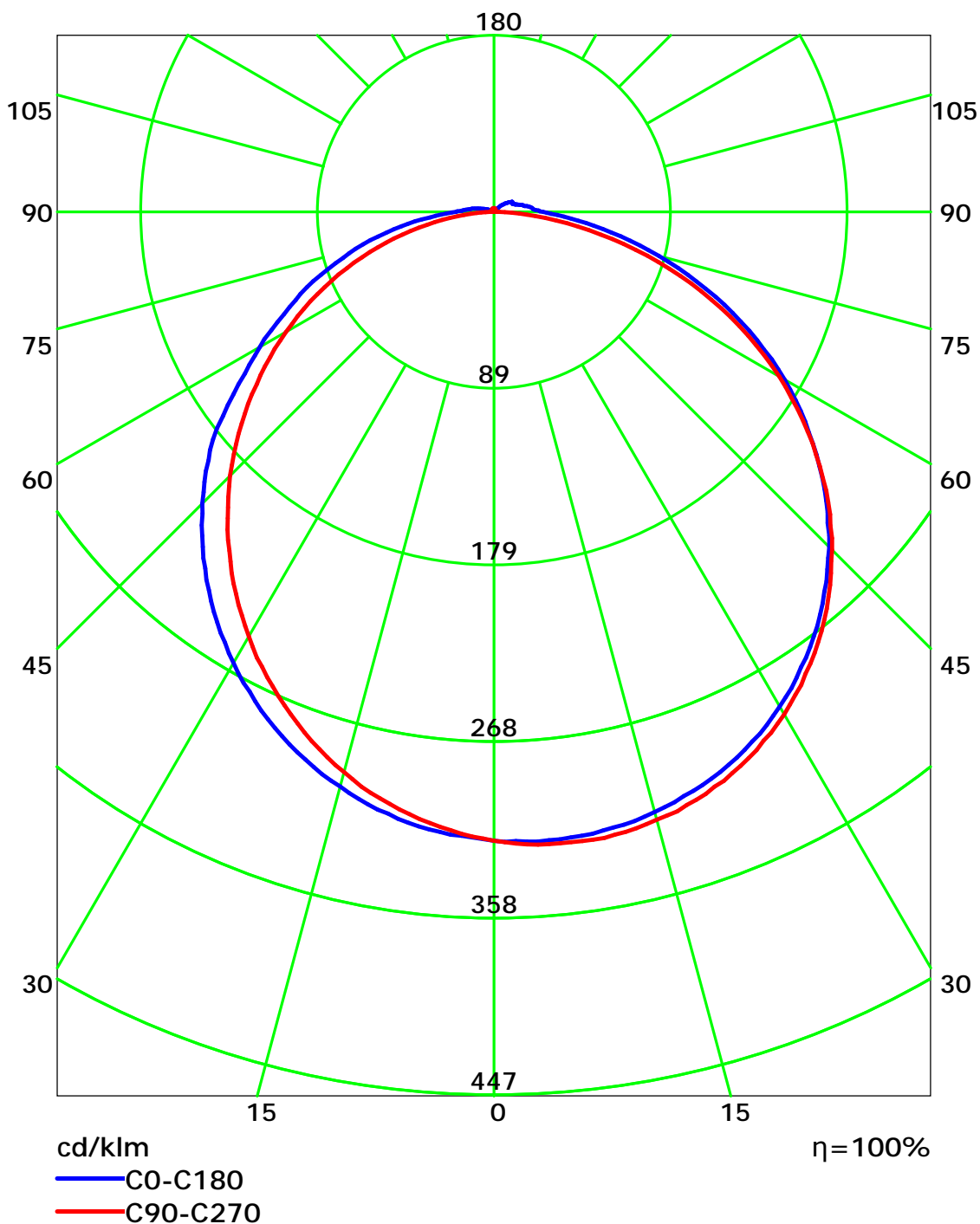
Luminous Intensity Distribution Curve



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:



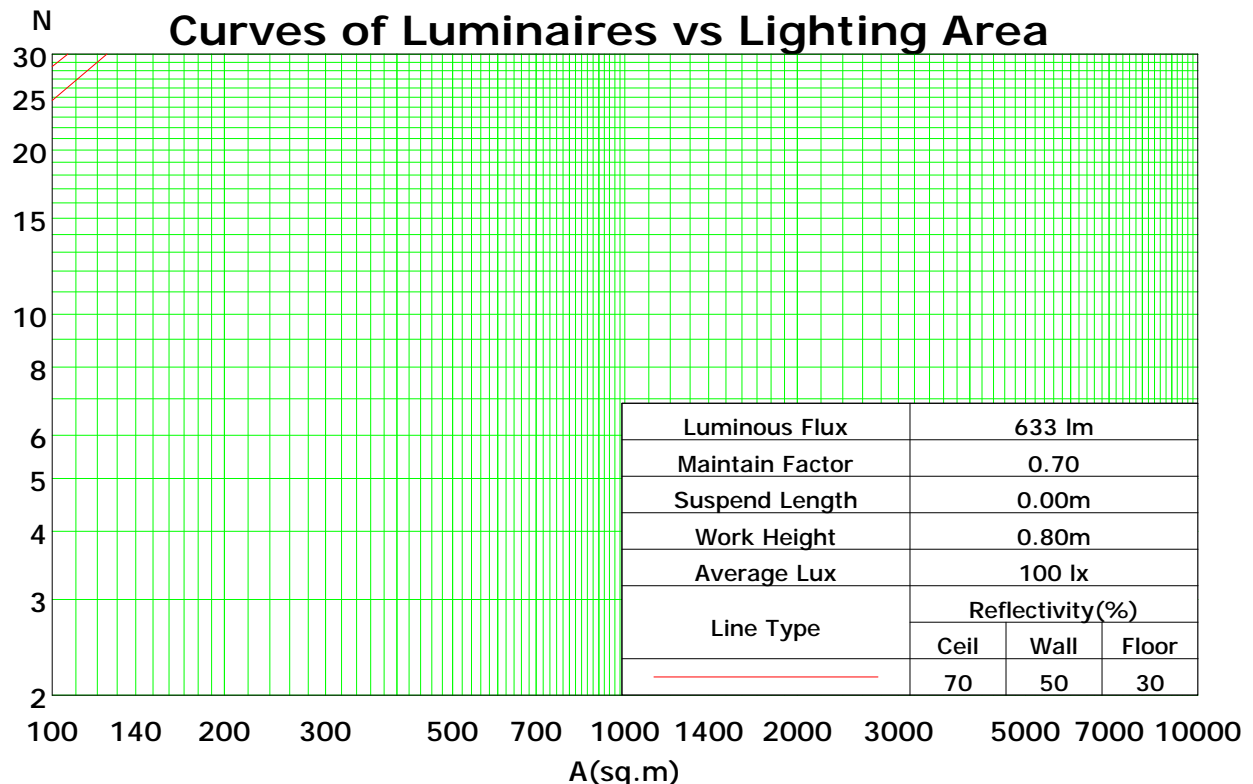
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	107	102	98	94	104	100	96	92	95	92	88	91	88	85	87	84	82	80
2	97	89	81	75	94	86	80	74	82	77	72	79	74	70	75	72	68	66
3	88	77	69	62	86	76	68	62	72	66	60	69	63	59	66	62	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	37	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.29

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

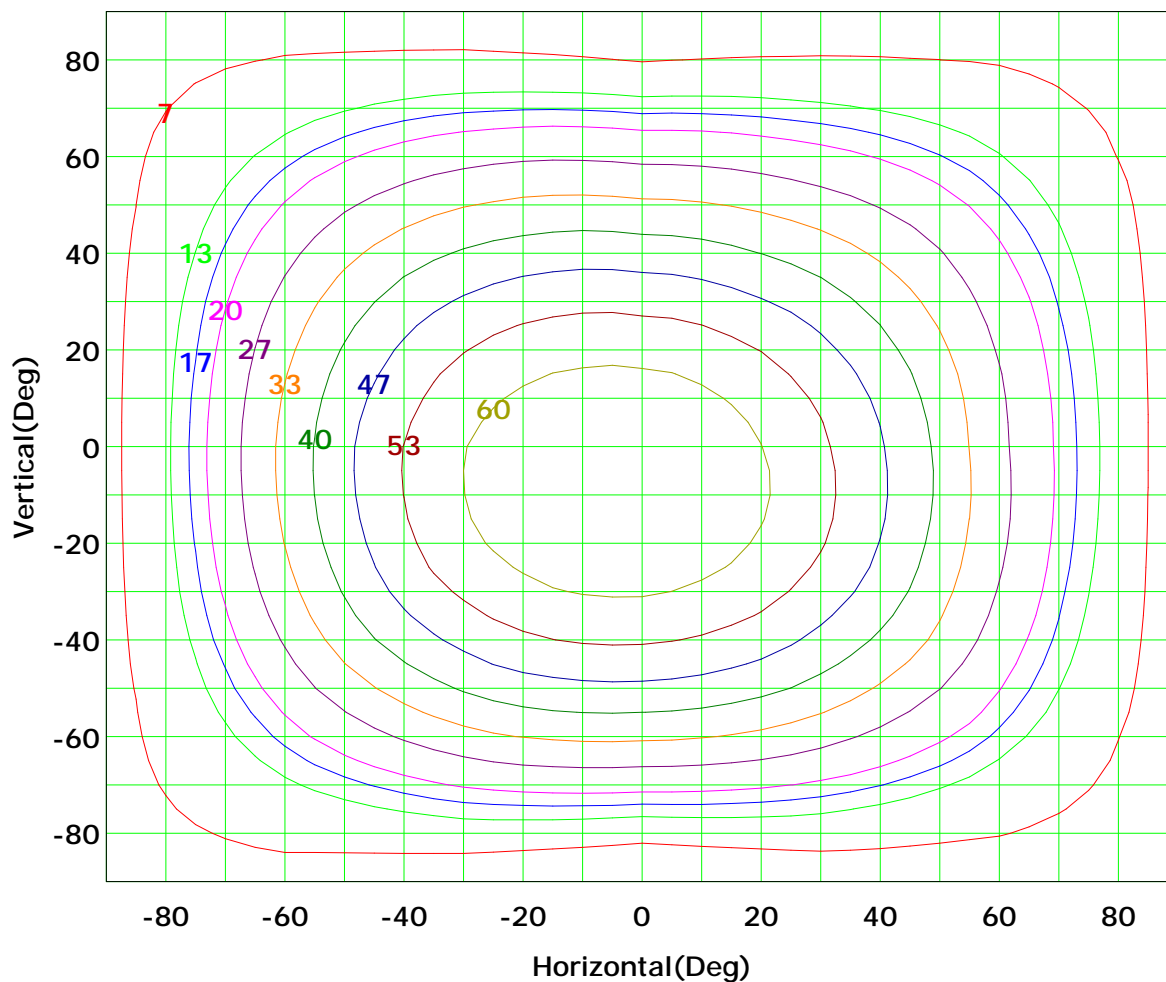
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 67 cd

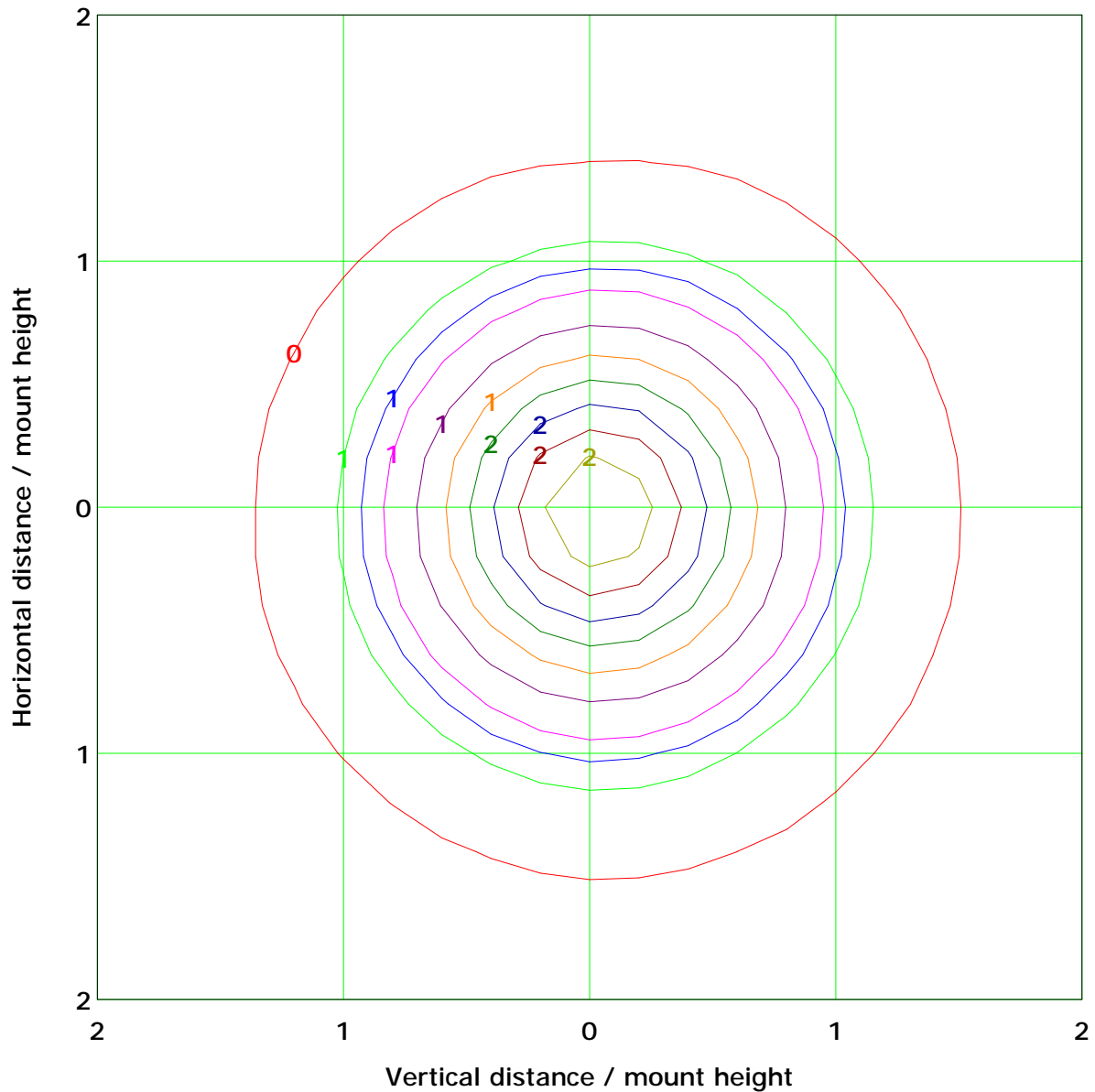
(10%):	7 cd	(20%):	13 cd
(25%):	17 cd	(30%):	20 cd
(40%):	27 cd	(50%):	33 cd
(60%):	40 cd	(70%):	47 cd
(80%):	53 cd	(90%):	60 cd

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%): 2.6 lx

(10%): 0.3 lx	(20%): 0.5 lx
(25%): 0.7 lx	(30%): 0.8 lx
(40%): 1.1 lx	(50%): 1.3 lx
(60%): 1.6 lx	(70%): 1.8 lx
(80%): 2.1 lx	(90%): 2.4 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

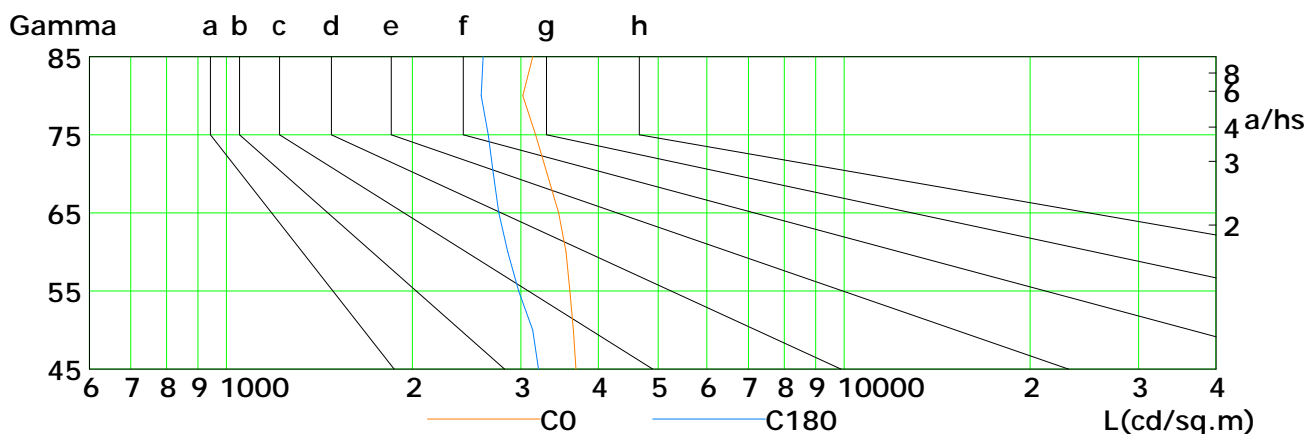
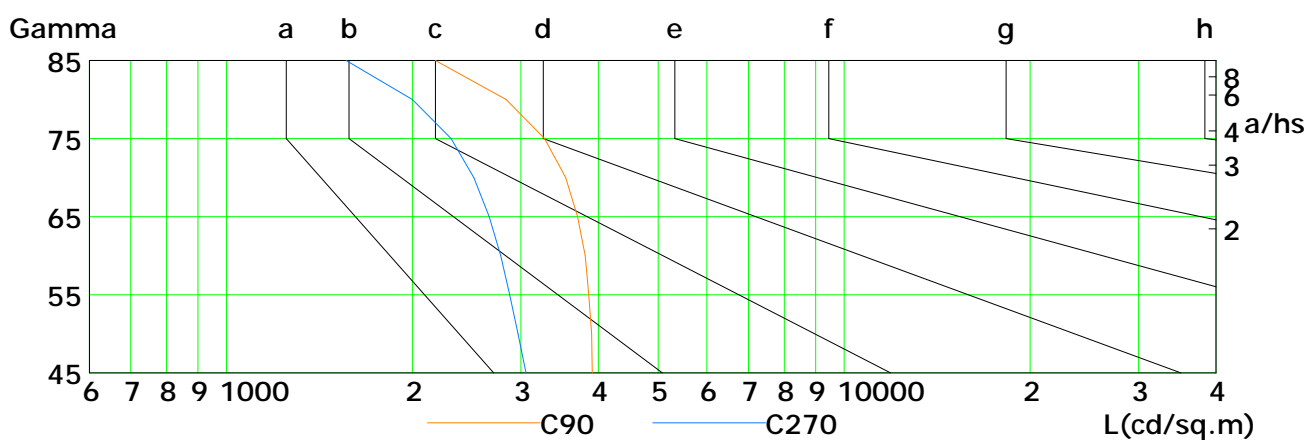
Humidity: 60%

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



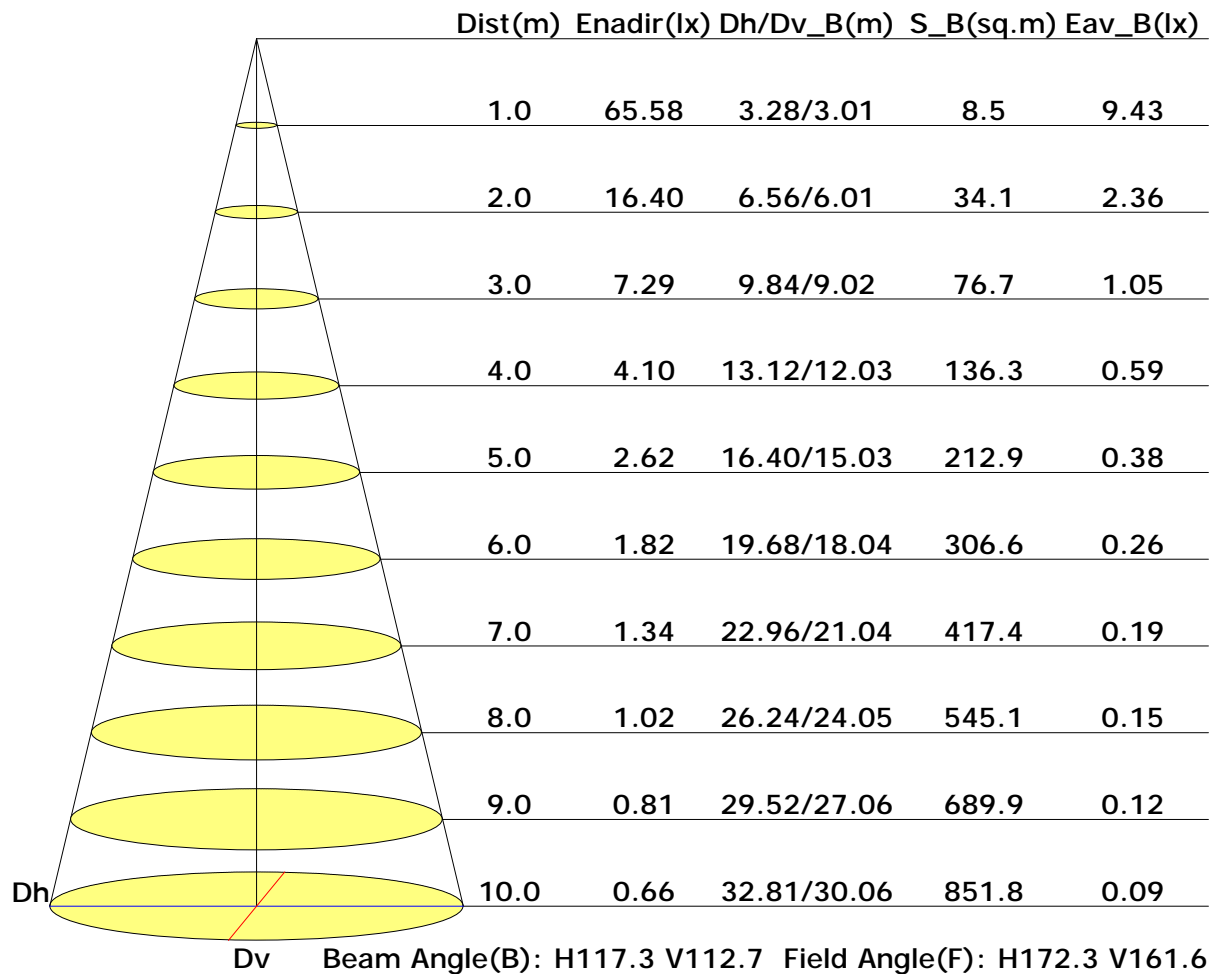
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3679	3646	3597	3548	3451	3307	3166	3019	3135
C90	3913	3903	3863	3812	3703	3543	3274	2838	2181
C180	3201	3132	2974	2855	2762	2707	2656	2586	2604
C270	3055	2966	2875	2780	2665	2517	2312	2001	1563

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

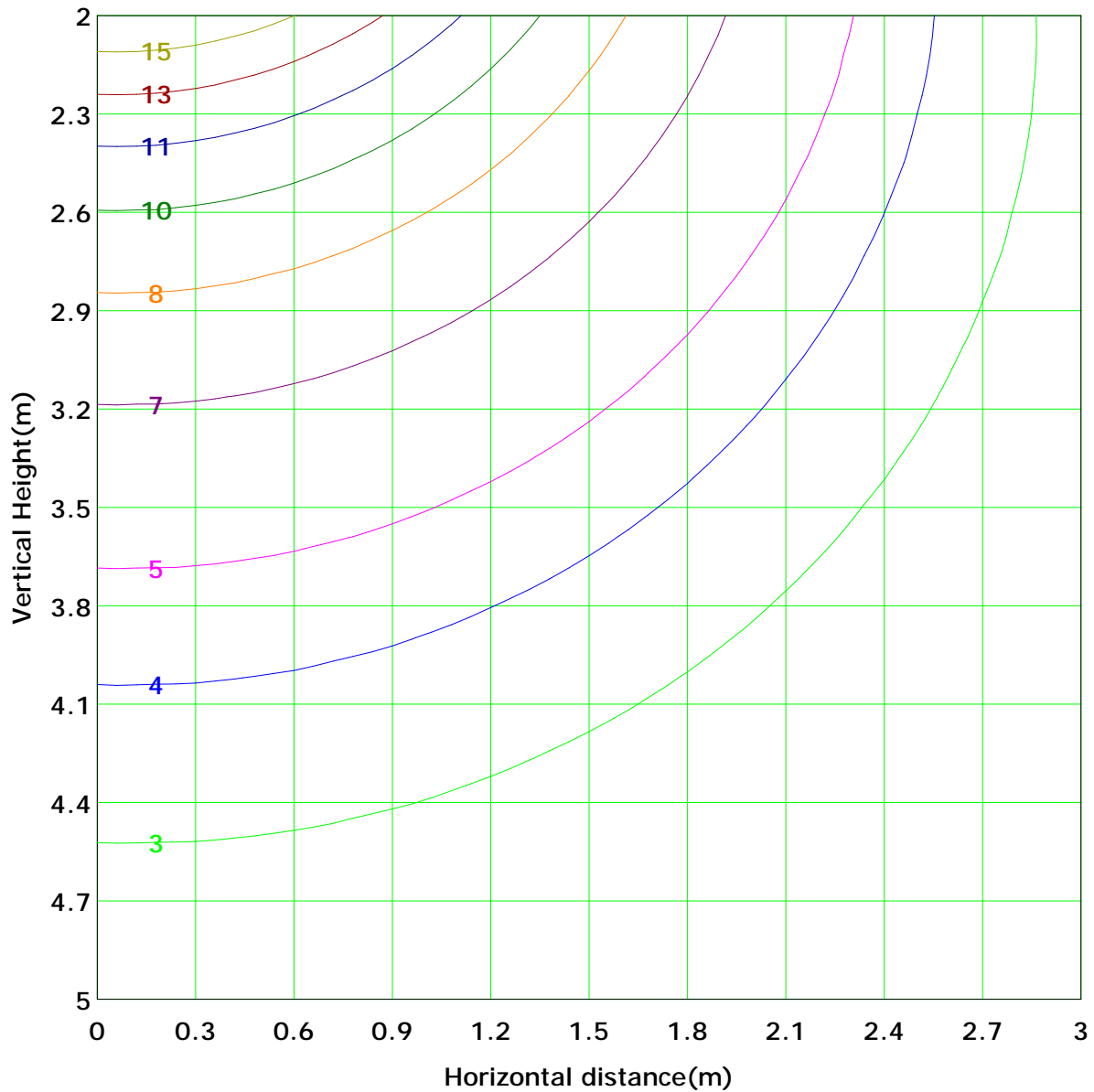
Distance: 9.028 m

Humidity: 60%

Inspector:



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 16.4 lx
(10%): 1.6 lx	(20%): 3.3 lx	
(25%): 4.1 lx	(30%): 4.9 lx	
(40%): 6.6 lx	(50%): 8.2 lx	
(60%): 9.8 lx	(70%): 11.5 lx	
(80%): 13.1 lx	(90%): 14.8 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																		Flux(T)		Flux(E)	
		Horizontal plane																					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	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	0.1	0.1	0.3	198	
Vertical 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	0.3	1.5	0.2	
	-80	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	3.6	3.5	
	-70	0.0	0.1	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	6.1	6.0	
	-60	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	8.6	8.6	
	-50	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.0	11.0	
	-40	0.0	0.1	0.2	0.5	0.7	0.9	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.3	1.1	0.8	0.5	0.3	0.1	13.2	13.2	
	-30	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.5	1.6	1.7	1.6	1.6	1.4	1.2	0.9	0.6	0.3	0.1	0.0	15.1	15.1	
	-20	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.8	1.8	1.8	1.6	1.3	1.0	0.7	0.4	0.1	0.0	16.6	16.6	
	-10	0.0	0.1	0.3	0.6	0.9	1.2	1.6	1.8	1.9	2.0	2.0	1.9	1.7	1.4	1.0	0.7	0.4	0.1	0.0	17.6	17.6	
	0	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	2.0	2.0	2.0	1.9	1.7	1.4	1.1	0.7	0.4	0.1	0.0	18.0	18.0	
	10	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	2.0	2.0	1.9	1.7	1.4	1.0	0.7	0.4	0.1	0.0	0.0	17.9	17.9	
	20	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.9	1.9	1.8	1.6	1.3	1.0	0.7	0.4	0.1	0.0	0.0	17.0	17.0	
	30	0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.7	1.5	1.2	0.9	0.6	0.3	0.1	0.0	0.0	15.6	15.6	
	40	0.0	0.1	0.2	0.5	0.7	1.0	1.2	1.4	1.5	1.5	1.4	1.3	1.1	0.8	0.5	0.3	0.1	0.0	0.0	13.5	13.5	
	50	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	10.9	10.9	
	60	0.0	0.1	0.1	0.3	0.4	0.6	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	7.9	7.8	
	70	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.6	4.6	
	80	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	1.9	0.8	
90	0.3	1.5	3.7	6.8	10.5	14.3	17.6	20.2	21.6	21.9	21.1	19.0	15.8	12.0	8.0	4.4	1.8	0.4	201				

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

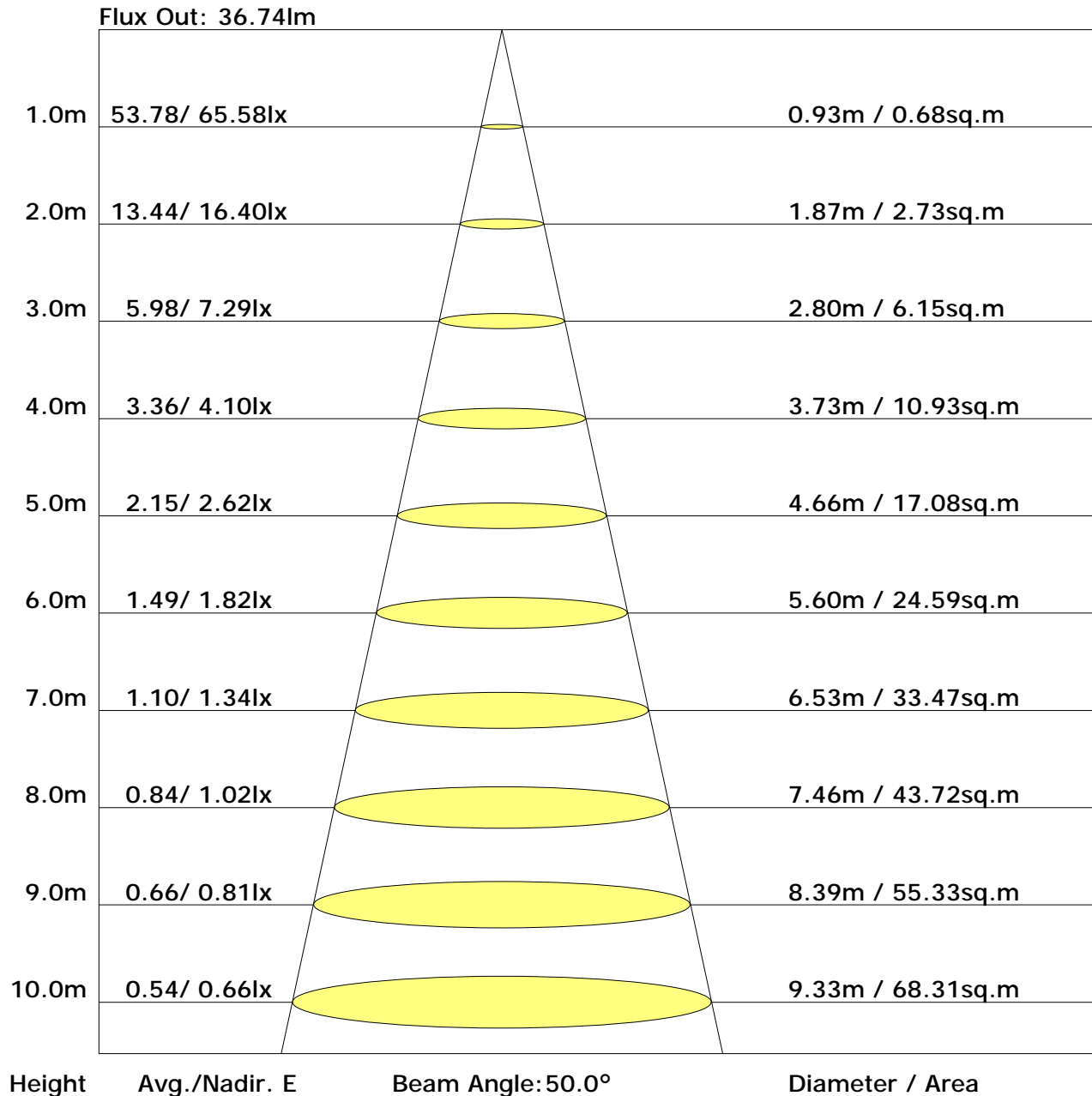
Distance: 9.028 m

Humidity: 60%

Inspector:



The Average Illuminance Effective Figure



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:

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	22.4	24.1	22.8	24.4	24.8	22.3	23.9	22.7	24.3	24.7
3H	24.5	26.0	24.9	26.3	26.7	24.2	25.6	24.6	26.0	26.4
4H	25.3	26.7	25.8	27.1	27.5	24.8	26.2	25.3	26.6	27.0
6H	26.1	27.4	26.5	27.8	28.2	25.3	26.6	25.7	27.0	27.4
8H	26.4	27.6	26.8	28.1	28.5	25.4	26.6	25.9	27.1	27.5
12H	26.7	27.9	27.2	28.3	28.8	25.5	26.7	25.9	27.1	27.6
X=4H Y=2H	23.0	24.4	23.5	24.8	25.2	23.0	24.4	23.5	24.8	25.2
3H	25.3	26.5	25.8	26.9	27.4	25.1	26.3	25.5	26.7	27.2
4H	26.3	27.4	26.8	27.8	28.3	25.9	27.0	26.4	27.4	27.9
6H	27.2	28.1	27.7	28.6	29.1	26.5	27.4	27.0	27.9	28.4
8H	27.6	28.5	28.1	29.0	29.5	26.7	27.6	27.2	28.0	28.6
12H	28.0	28.8	28.5	29.3	29.8	26.8	27.6	27.3	28.1	28.6
X=8H Y=4H	26.6	27.5	27.1	28.0	28.5	26.3	27.2	26.8	27.7	28.2
6H	27.6	28.4	28.2	28.9	29.4	27.1	27.8	27.6	28.3	28.9
8H	28.2	28.8	28.7	29.4	29.9	27.3	28.0	27.9	28.6	29.1
12H	28.7	29.3	29.3	29.8	30.4	27.5	28.1	28.1	28.7	29.3
X=12H Y=4H	26.6	27.4	27.2	28.0	28.5	26.4	27.2	26.9	27.7	28.2
6H	27.7	28.4	28.3	28.9	29.5	27.2	27.9	27.7	28.4	28.9
8H	28.3	28.9	28.8	29.4	30.0	27.5	28.1	28.1	28.6	29.3

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 = 1.25								
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	0.54	0.64	0.72	0.77	0.85	0.90	0.93	0.98	1.01
	0.30		0.46	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.97
	0.20		0.40	0.50	0.58	0.64	0.73	0.79	0.83	0.90	0.94
0.50	0.50	0.20	0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97
	0.30		0.45	0.55	0.62	0.68	0.75	0.81	0.85	0.90	0.93
	0.20		0.40	0.50	0.57	0.63	0.71	0.77	0.81	0.87	0.90
0.30	0.50	0.20	0.51	0.60	0.66	0.71	0.78	0.82	0.85	0.90	0.92
	0.30		0.44	0.54	0.61	0.66	0.73	0.78	0.82	0.87	0.90
	0.20		0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.84	0.87
0.00	0.00	0.00	0.37	0.46	0.53	0.58	0.65	0.70	0.74	0.79	0.82
<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 = 1.25								
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	1.02	0.85	0.73	0.64	0.51	0.43	0.37	0.29	0.24
	0.30		0.85	0.73	0.64	0.57	0.47	0.39	0.34	0.27	0.23
	0.20		0.73	0.64	0.56	0.51	0.42	0.36	0.32	0.26	0.22
0.50	0.50	0.20	0.98	0.82	0.70	0.61	0.49	0.44	0.35	0.27	0.23
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.25	0.21
0.30	0.50	0.20	0.95	0.78	0.67	0.58	0.47	0.39	0.34	0.26	0.22
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.32	0.25	0.21
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.00	0.00	0.00	0.61	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16
<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 = 1.25								
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	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.24
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.21	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.23	0.23
	0.30		0.12	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	0.15	0.17	0.18
0.30	0.50	0.20	0.18	0.19	0.19	0.20	0.21	0.21	0.22	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	0.17	0.18
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>											