



Complete Integrated LED Lighting Solutions

Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Fax: + 85 755 85290710(China) Page 1 of 15 Pages

Report No.:

Test Time: 2018/10/15 13:46

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.329 A

Power Factor: 1.000

Luminaire Description: RBMC20244.5UV

Luminous Width (mm): 5

Voltage: 24.0 V

Power: 7.89 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3.7 lm

Downward Ratio: 95%

Horizontal Diffuse Angle(50%): H129.9

Vertical Diffuse Angle(50%): V124.1

Luminaire Efficacy Rating (LER): 0

Max. Intensity: 1.11 cd

Total Rated Lamp Lumens: 3.7 lm

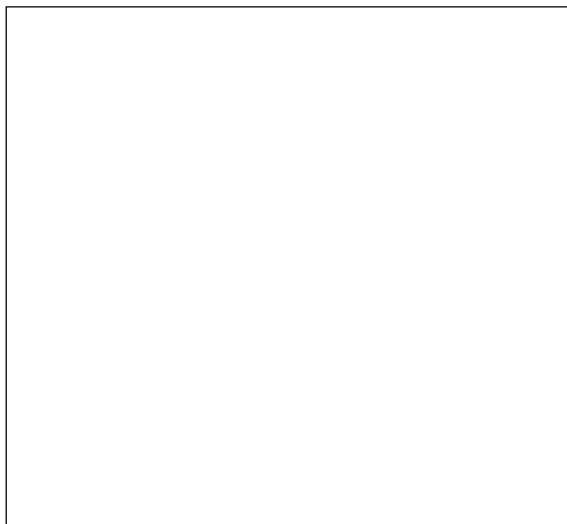
Efficiency: 100%

Upward Ratio: 5%

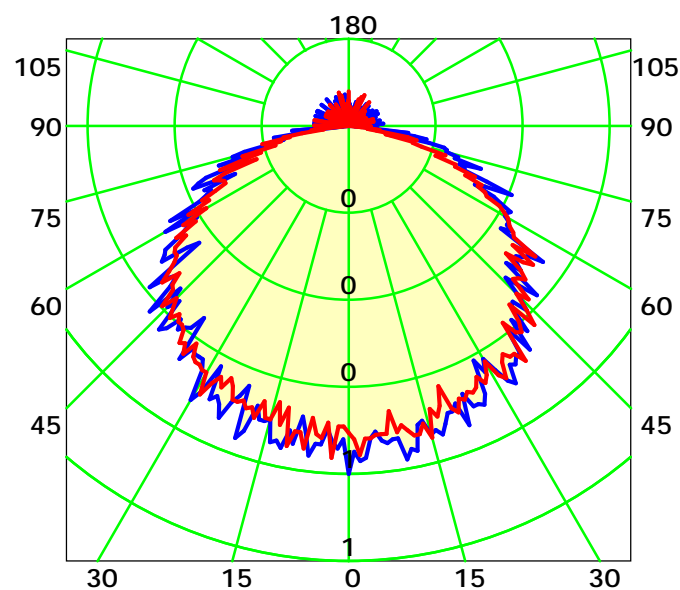
Central Intensity: 1.1 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 127.0° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

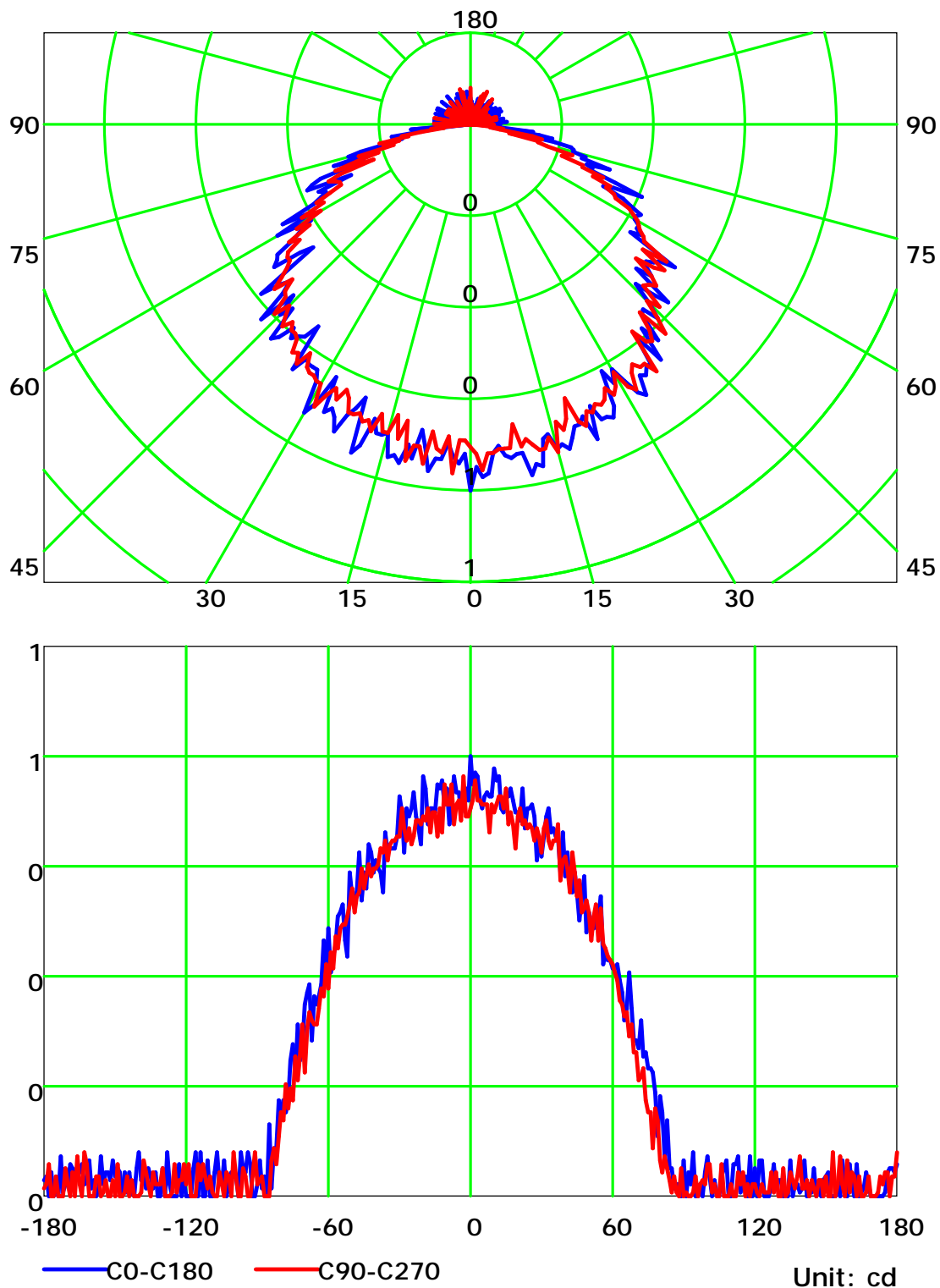
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

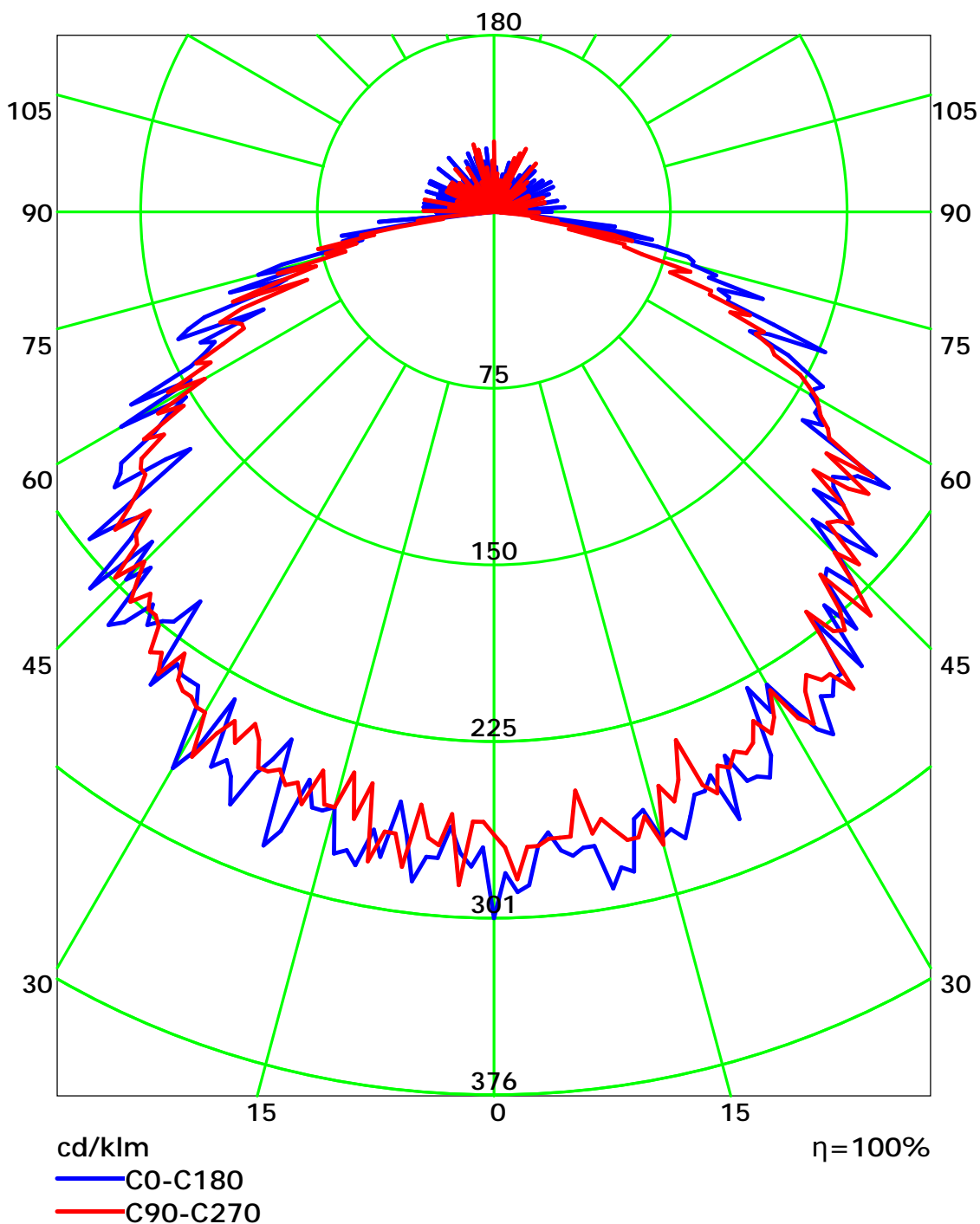
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 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:  
 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:



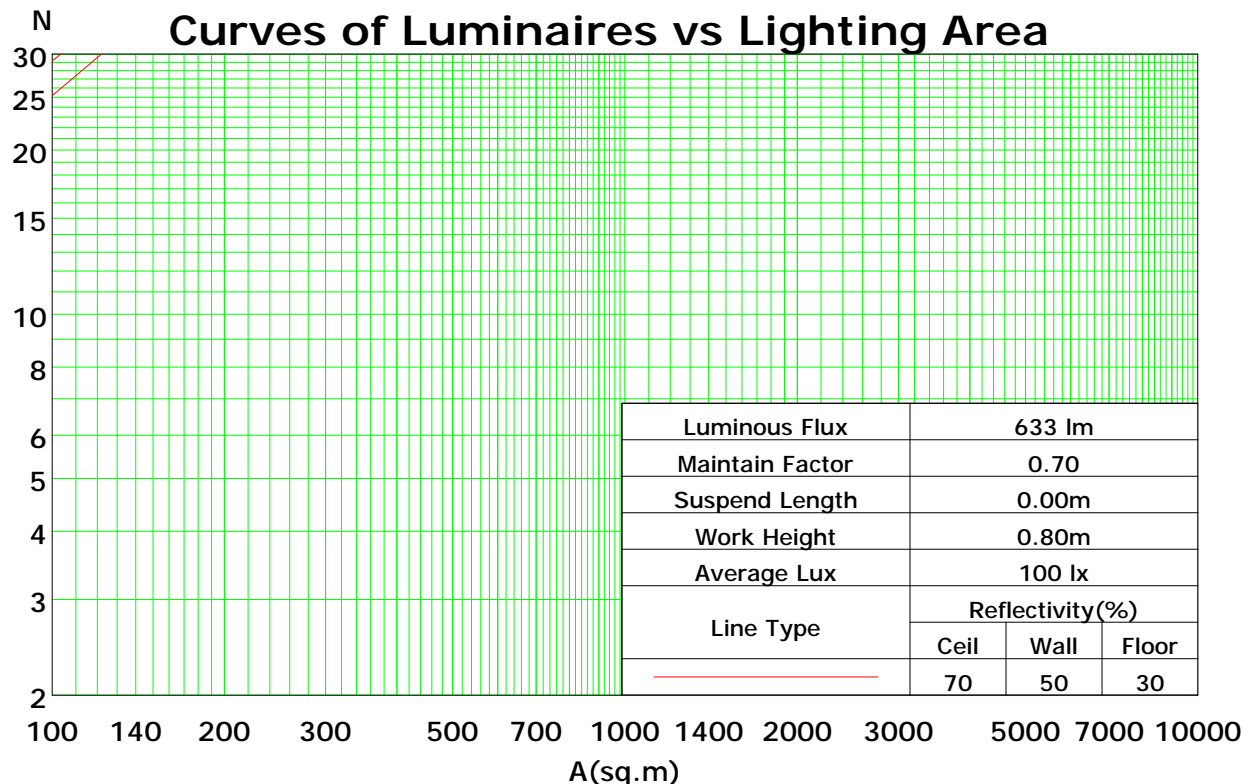
## Coefficients Of Utilization - Zonal Cavity Method

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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	97	92	103	98	94	90	93	90	86	88	85	83	84	82	79	77
2	96	87	80	74	93	85	78	72	80	75	70	76	72	67	72	69	65	63
3	87	76	67	60	84	74	66	59	70	63	58	66	61	56	63	58	54	52
4	79	67	57	50	76	65	56	50	62	54	48	59	52	47	56	50	46	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	40	50	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	32	60	47	38	32	45	37	31	43	36	31	41	35	30	28
8	57	43	35	29	55	42	34	28	41	33	28	39	32	27	37	31	27	25
9	53	40	31	26	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	37	28	23	48	36	28	23	34	27	22	33	27	22	32	26	22	20

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.38

Spacing Criteria (Diagonal): 1.42



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

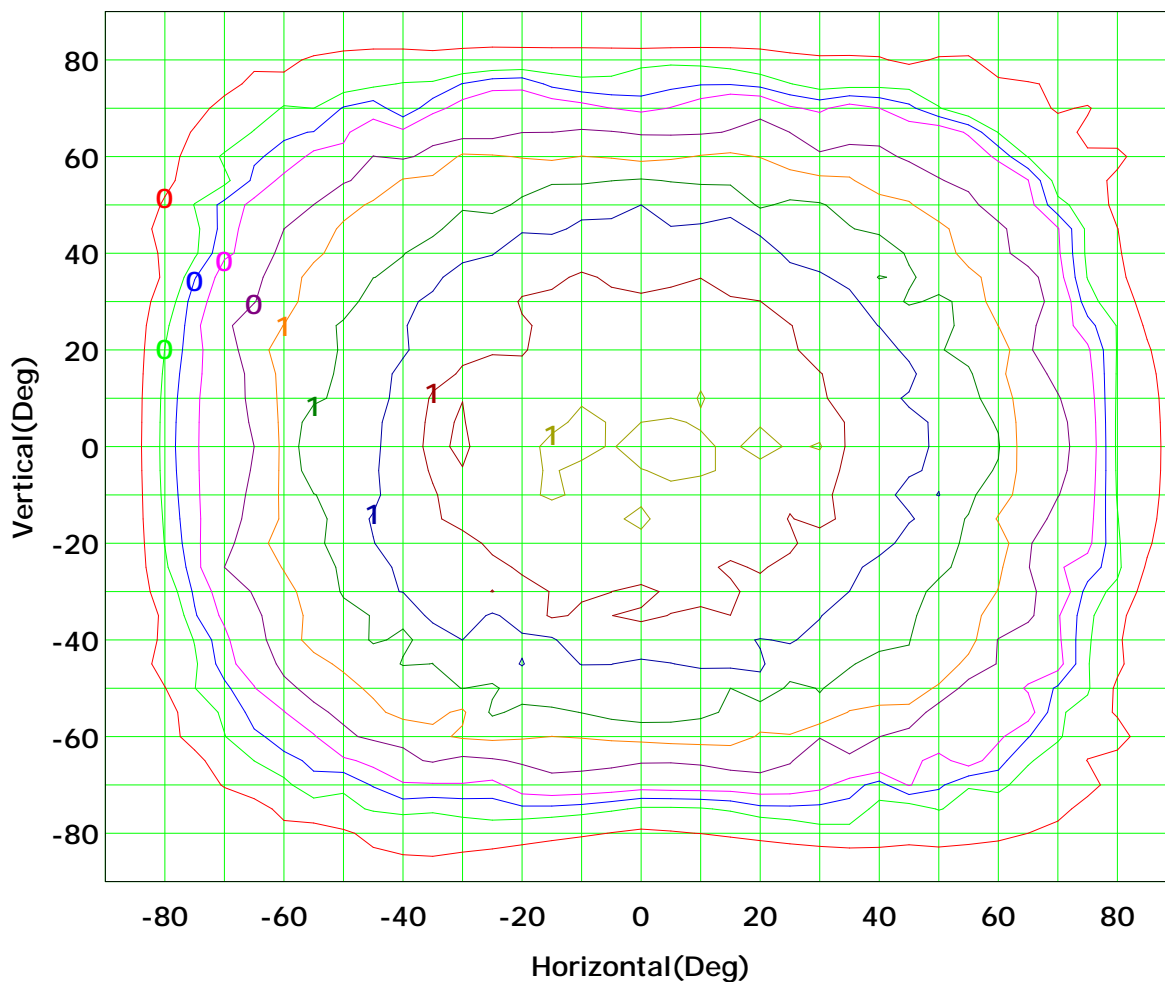
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



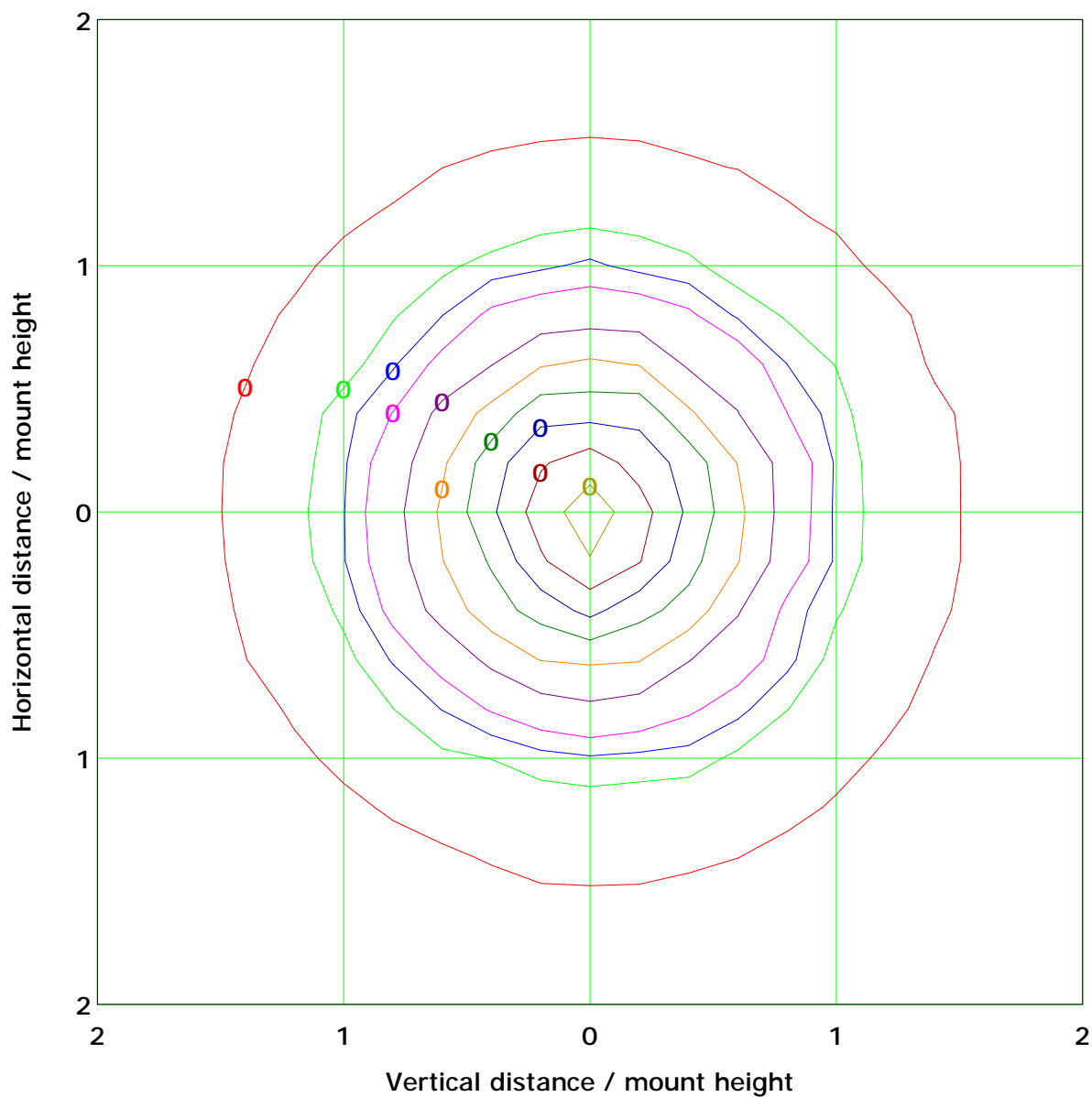
Imax (100%): 1 cd

( 10%):	0 cd	( 20%):	0 cd
( 25%):	0 cd	( 30%):	0 cd
( 40%):	0 cd	( 50%):	1 cd
( 60%):	1 cd	( 70%):	1 cd
( 80%):	1 cd	( 90%):	1 cd

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 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%): 0.0 lx	
( 10%): 0.0 lx	( 20%): 0.0 lx
( 25%): 0.0 lx	( 30%): 0.0 lx
( 40%): 0.0 lx	( 50%): 0.0 lx
( 60%): 0.0 lx	( 70%): 0.0 lx
( 80%): 0.0 lx	( 90%): 0.0 lx

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

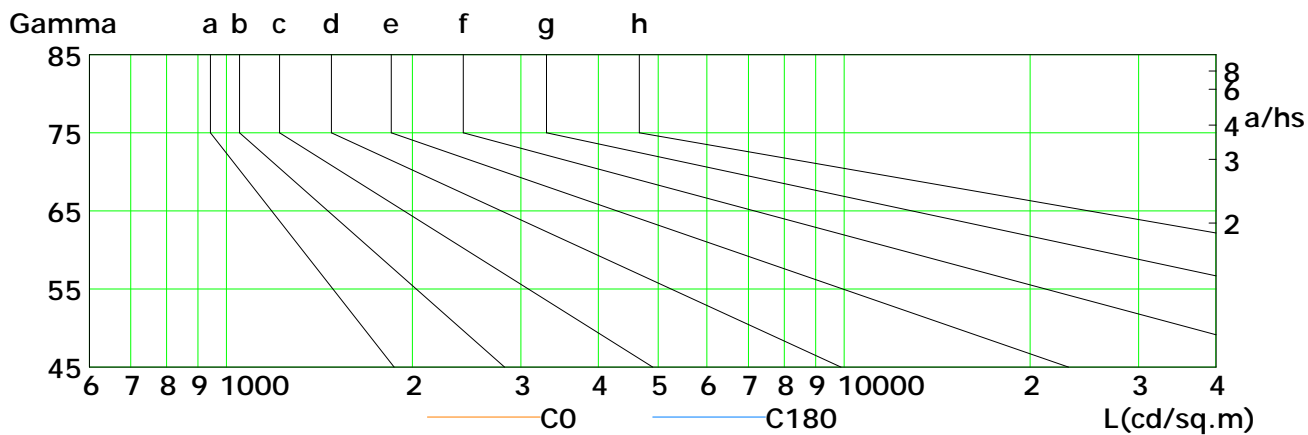
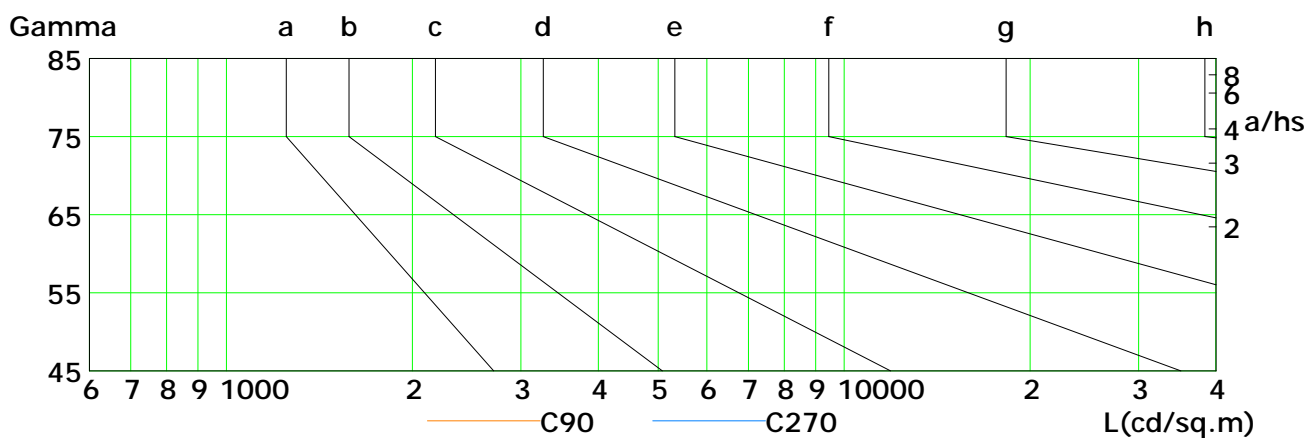
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## 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	358	357	407	339	291	294	283	270	98
C90	423	441	501	462	424	419	322	205	45
C180	382	377	385	398	318	362	336	227	251
C270	435	478	466	415	405	361	368	478	0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

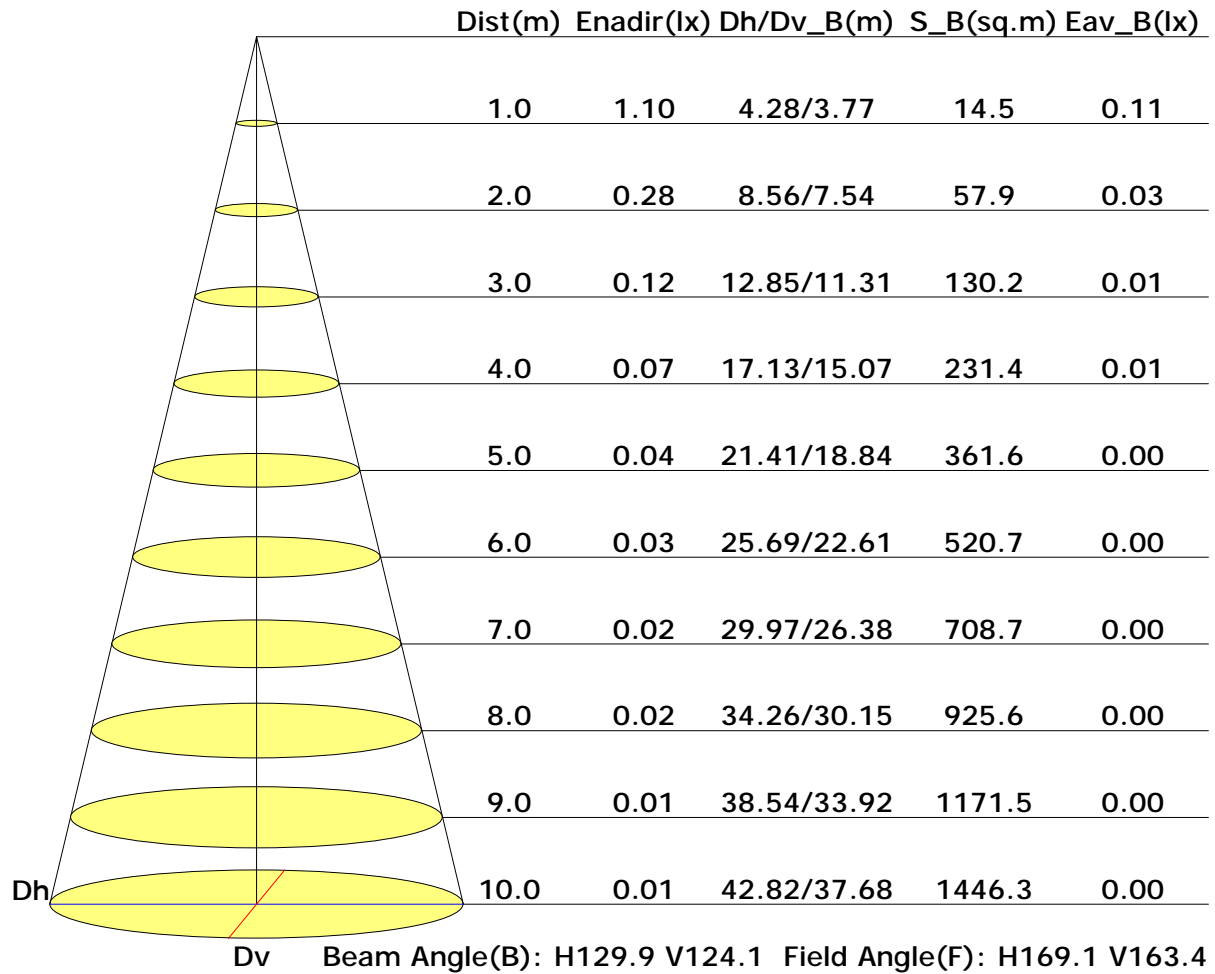
Distance: 9.028 m

Humidity: 60%

Inspector:



## Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

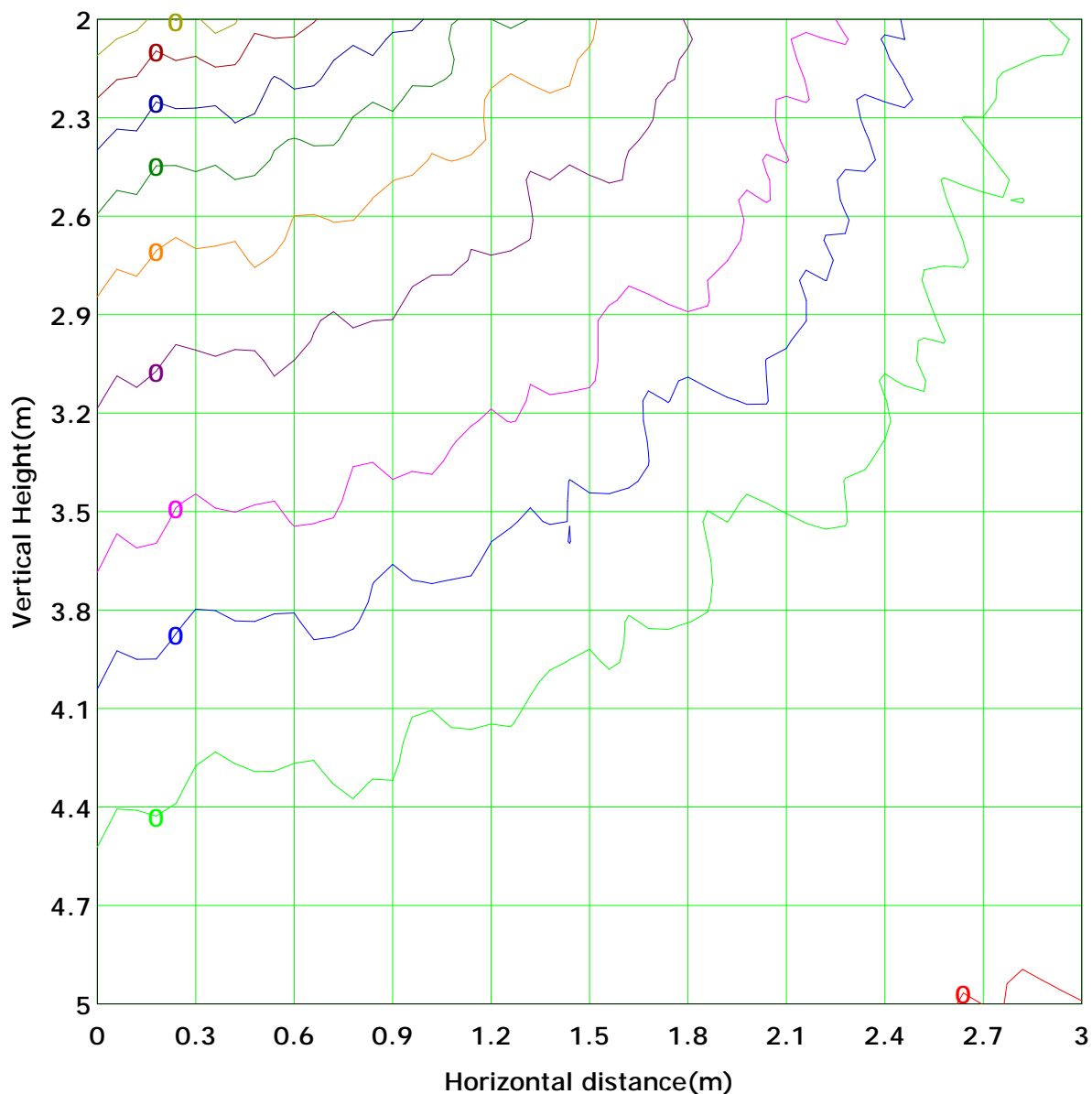
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
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:



[www.acolyteled.com](http://www.acolyteled.com)

Fax: + 85 755 85290710(China) Page 10 of 15 Pages

Complete Integrated LED Lighting Solutions

## Unit: lm

Horizontal plane

Inspector:



ACOLYTE®

Complete Integrated LED Lighting Solutions

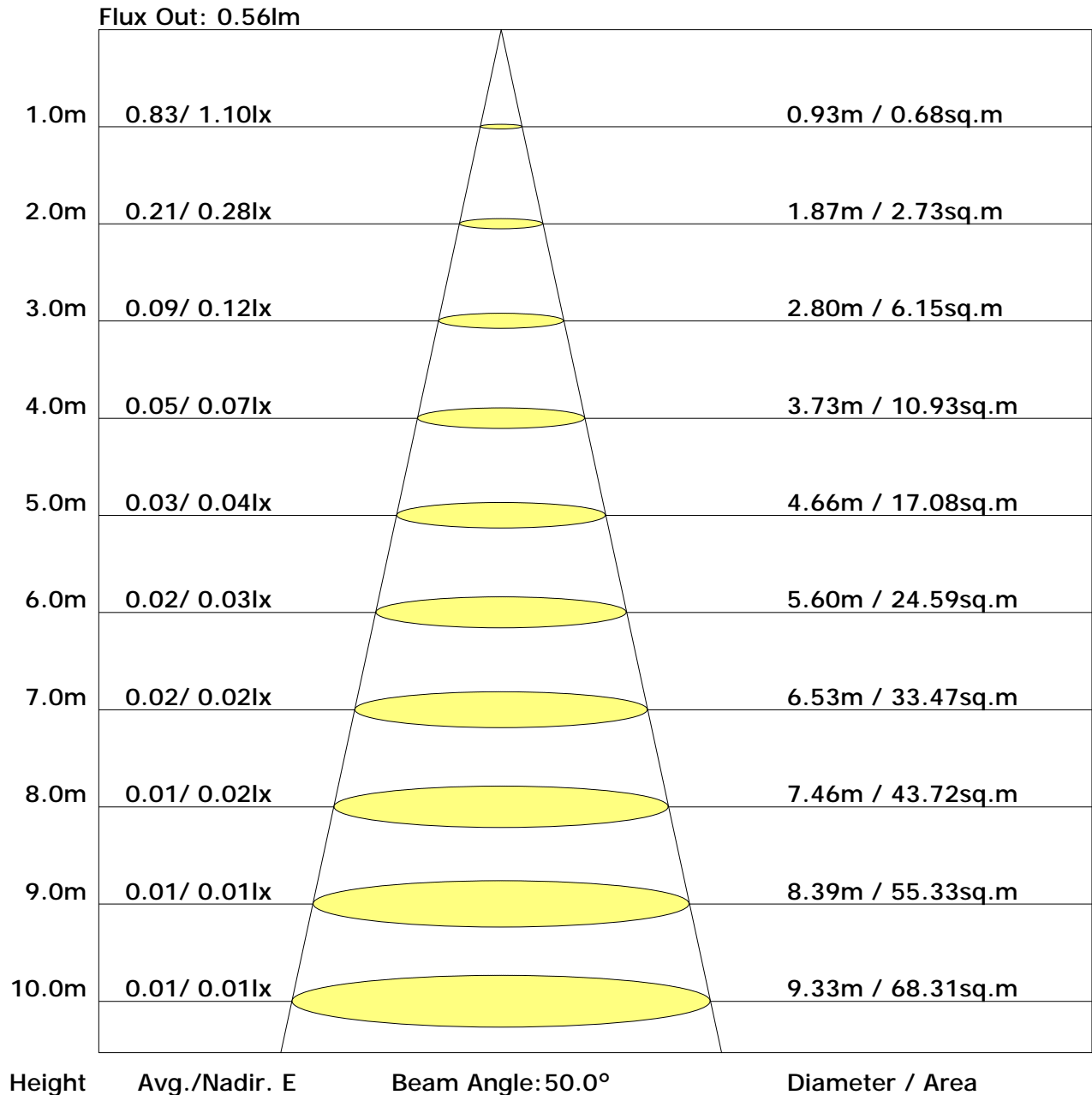
Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Fax: + 85 755 85290710(China) Page 11 of 15 Pages

## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
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	28.6	30.2	29.0	30.6	31.0	27.9	29.5	28.4	30.0	30.4
3H	30.8	32.2	31.3	32.7	33.2	29.6	31.0	30.0	31.4	31.9
4H	31.8	33.2	32.3	33.6	34.1	30.1	31.4	30.5	31.9	32.4
6H	32.6	33.9	33.1	34.3	34.8	30.3	31.6	30.8	32.1	32.6
8H	32.8	34.0	33.3	34.5	35.0	30.4	31.6	30.9	32.1	32.6
12H	33.0	34.1	33.5	34.6	35.1	30.4	31.5	30.9	32.0	32.6
X=4H Y=2H	29.3	30.7	29.8	31.1	31.6	28.8	30.1	29.2	30.6	31.1
3H	31.6	32.8	32.1	33.3	33.8	30.8	31.9	31.3	32.4	32.9
4H	32.7	33.7	33.2	34.3	34.8	31.4	32.4	31.9	32.9	33.5
6H	33.7	34.6	34.2	35.1	35.7	31.8	32.7	32.3	33.2	33.8
8H	33.9	34.8	34.5	35.3	35.9	31.9	32.7	32.4	33.3	33.8
12H	34.1	34.9	34.7	35.4	36.0	31.9	32.7	32.4	33.2	33.8
X=8H Y=4H	33.0	33.8	33.5	34.4	34.9	31.8	32.6	32.3	33.2	33.8
6H	34.0	34.8	34.6	35.3	35.9	32.3	33.1	32.9	33.6	34.2
8H	34.4	35.0	35.0	35.6	36.2	32.5	33.2	33.1	33.8	34.3
12H	34.6	35.2	35.2	35.7	36.4	32.6	33.1	33.2	33.7	34.4
X=12H Y=4H	33.0	33.8	33.5	34.3	34.9	31.9	32.6	32.4	33.2	33.8
6H	34.1	34.7	34.7	35.3	35.9	32.5	33.1	33.1	33.7	34.3
8H	34.5	35.0	35.0	35.6	36.3	32.7	33.3	33.3	33.8	34.5

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
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	0.54	0.62	0.70	0.75	0.82	0.87	0.91	0.96	0.99
	0.30		0.46	0.54	0.62	0.68	0.76	0.82	0.86	0.91	0.95
	0.20		0.40	0.48	0.56	0.62	0.71	0.77	0.81	0.87	0.92
0.50	0.50	0.20	0.52	0.59	0.67	0.72	0.78	0.83	0.86	0.91	0.94
	0.30		0.45	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.91
	0.20		0.40	0.47	0.55	0.61	0.69	0.74	0.78	0.84	0.88
0.30	0.50	0.20	0.50	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.89
	0.30		0.44	0.51	0.58	0.63	0.70	0.75	0.79	0.83	0.87
	0.20		0.39	0.46	0.54	0.59	0.67	0.72	0.76	0.81	0.84
0.00	0.00	0.00	0.36	0.43	0.50	0.55	0.62	0.67	0.71	0.75	0.79
<p>Rating:8W 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>											



acolyte®

Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Complete Integrated LED Lighting Solutions

Fax: + 85 755 85290710(China) Page 14 of 15 Pages

## 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	0.84	0.71	0.62	0.50	0.41	0.36	0.28	0.23	
	0.30		0.82	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.70	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.20	
0.50	0.50	0.20	0.94	0.80	0.67	0.59	0.47	0.42	0.34	0.26	0.21	
	0.30		0.79	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.69	0.61	0.53	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.90	0.76	0.64	0.56	0.45	0.37	0.32	0.25	0.20	
	0.30		0.77	0.67	0.57	0.51	0.41	0.35	0.30	0.24	0.19	
	0.20		0.67	0.60	0.52	0.46	0.38	0.33	0.28	0.23	0.19	
0.00	0.00	0.00	0.57	0.50	0.43	0.38	0.31	0.26	0.22	0.18	0.14	
<p>Rating:8W 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>												

C Plane (°):0.0-360.0: 30.0

Test Lab:

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(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	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.26	0.26
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.21	0.23	0.23
	0.20		0.09	0.11	0.12	0.13	0.15	0.17	0.18	0.20	0.21
0.50	0.50	0.20	0.20	0.21	0.22	0.23	0.24	0.24	0.24	0.25	0.25
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.09	0.11	0.12	0.13	0.15	0.16	0.18	0.19	0.20
0.30	0.50	0.20	0.20	0.21	0.21	0.22	0.23	0.23	0.23	0.24	0.24
	0.30		0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.20
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
<p>Rating:8W 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>											