



Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Complete Integrated LED Lighting Solutions

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

Report No.:

Test Time: 2018/10/15 16:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.312 A

Power Factor: 1.000

Luminaire Description: RBMC20244.5R

Luminous Width (mm): 5

Voltage: 24.0 V

Power: 7.49 W

Photometric Results

CIE Class: Direct

Measurement Flux: 191.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H125.1

Vertical Diffuse Angle(50%): V123.3

Luminaire Efficacy Rating (LER): 26

Max. Intensity: 58.75 cd

Total Rated Lamp Lumens: 191.5 lm

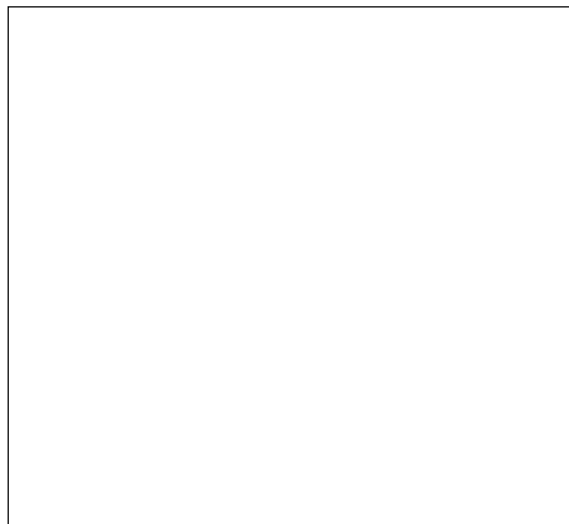
Efficiency: 100%

Upward Ratio: 1%

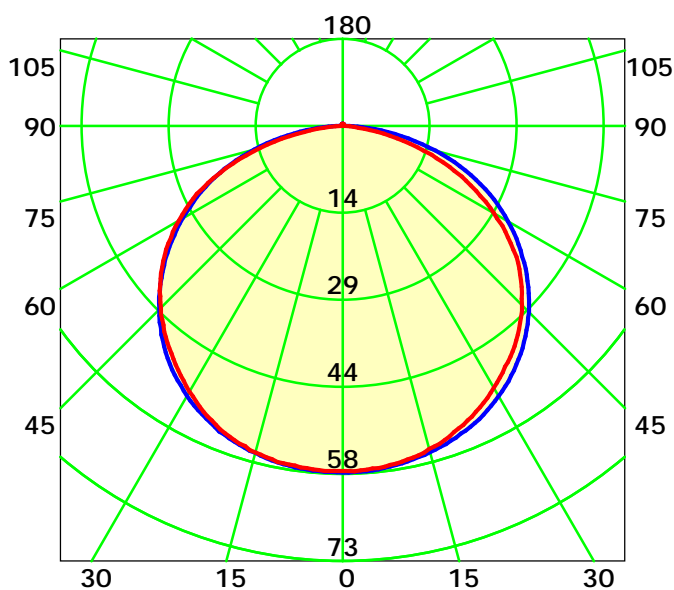
Central Intensity: 58.72 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 124.2° 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

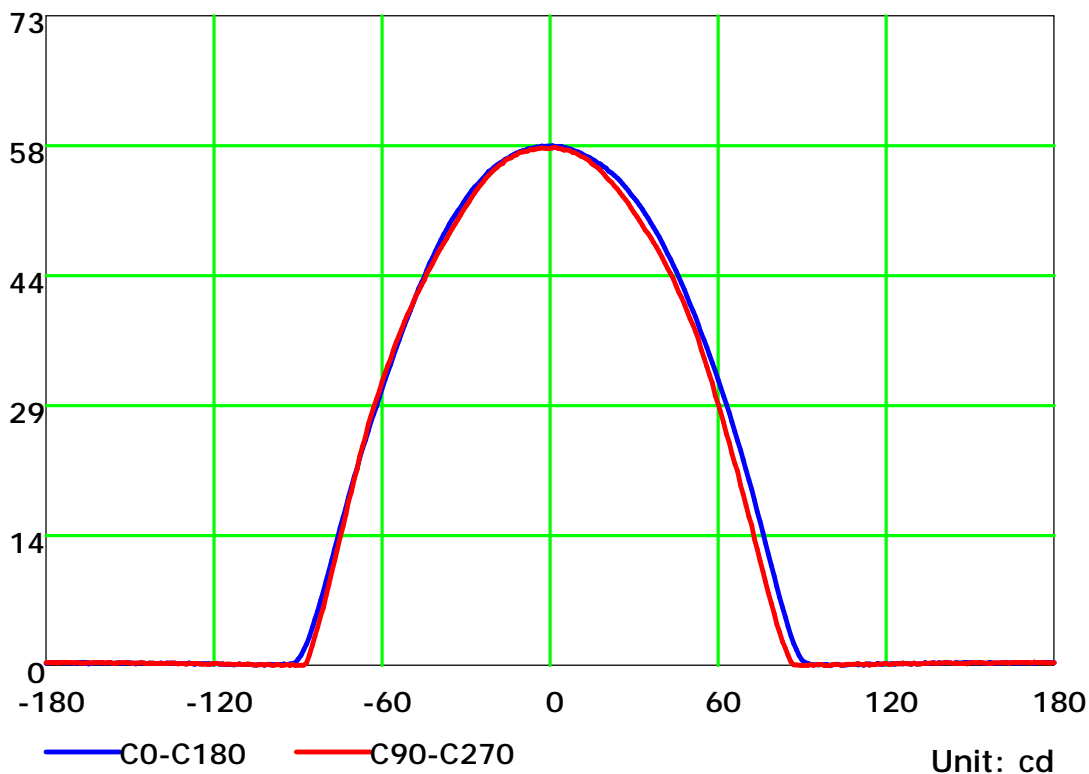
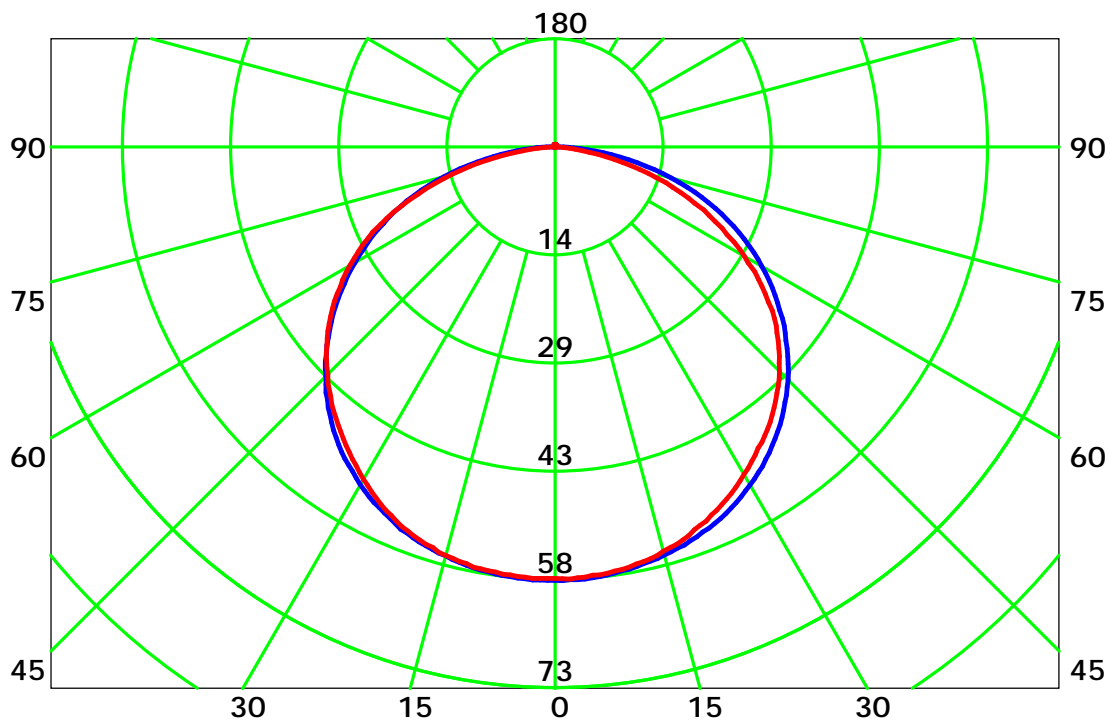
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

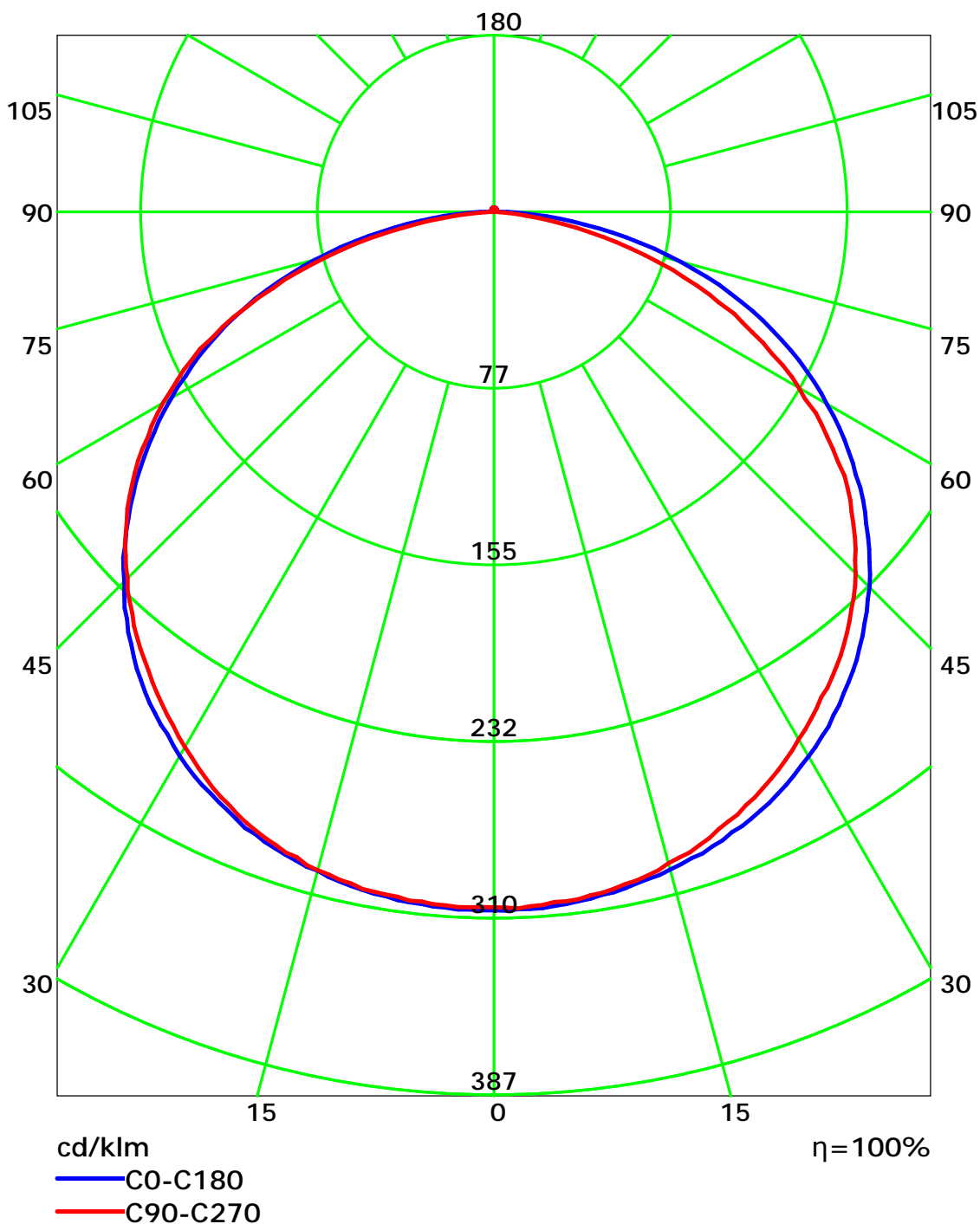
Luminous Intensity Distribution Curve



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:



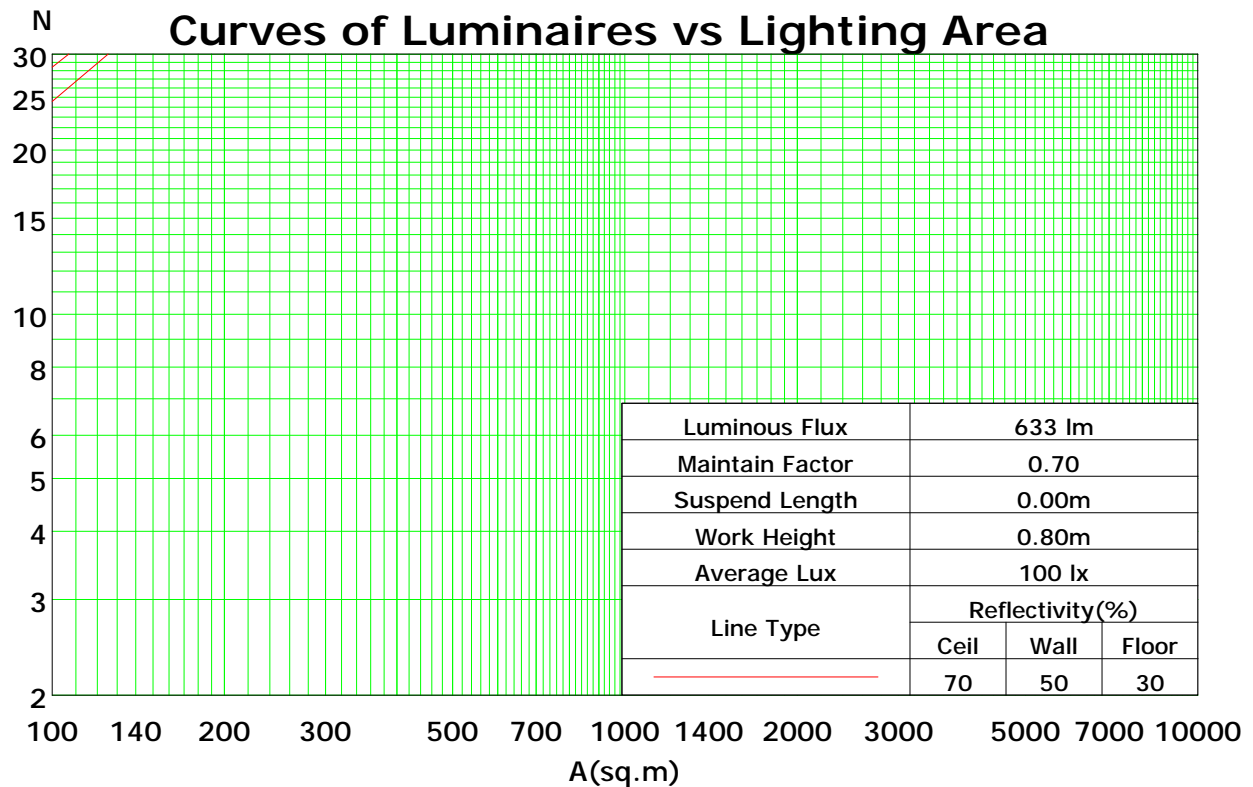
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	98	94	105	100	96	93	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	77	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47
5	74	61	51	45	72	60	51	44	57	50	44	55	48	43	53	47	43	40
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.34

Spacing Criteria (90-270): 1.31

Spacing Criteria (Diagonal): 1.45



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

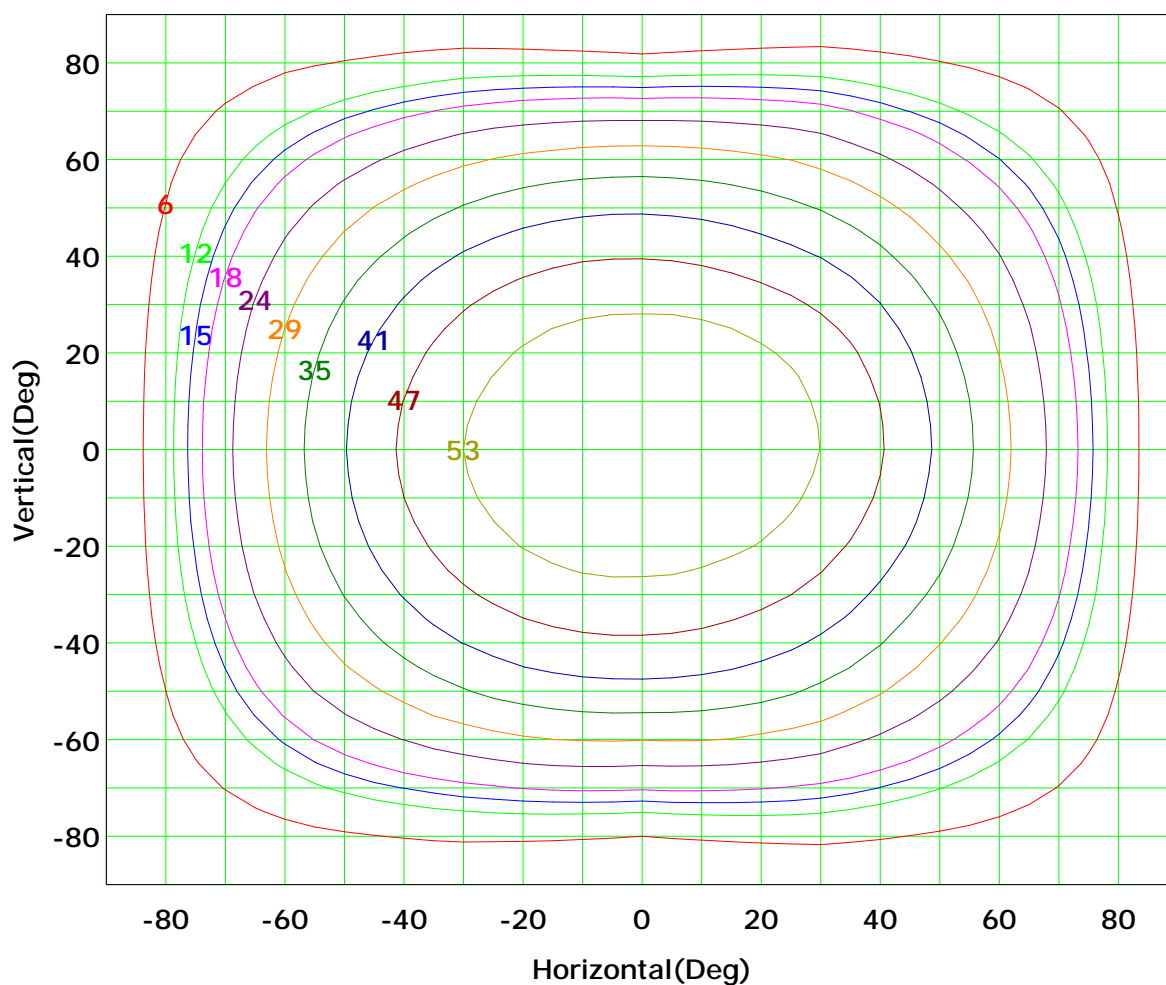
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 59 cd

(10%):	6 cd	(20%):	12 cd
(25%):	15 cd	(30%):	18 cd
(40%):	24 cd	(50%):	29 cd
(60%):	35 cd	(70%):	41 cd
(80%):	47 cd	(90%):	53 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

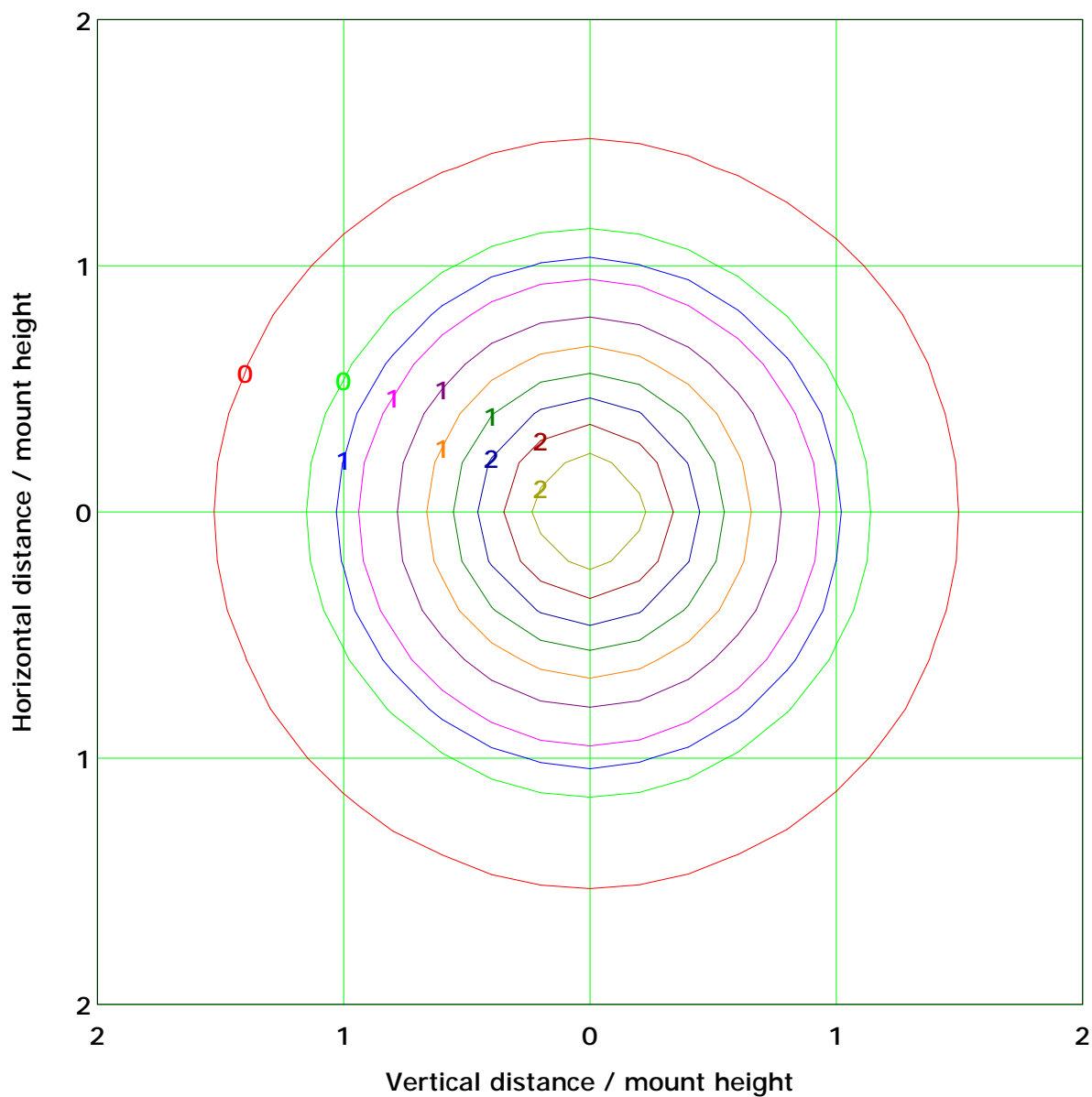
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.3 lx	
(10%): 0.2 lx	(20%): 0.5 lx
(25%): 0.6 lx	(30%): 0.7 lx
(40%): 0.9 lx	(50%): 1.2 lx
(60%): 1.4 lx	(70%): 1.6 lx
(80%): 1.9 lx	(90%): 2.1 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:



acolyte®

Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

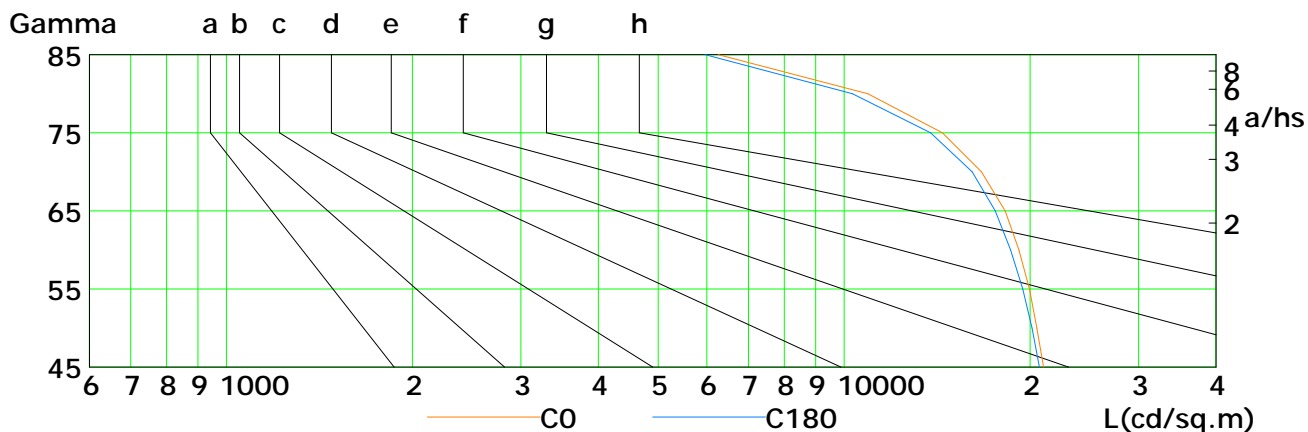
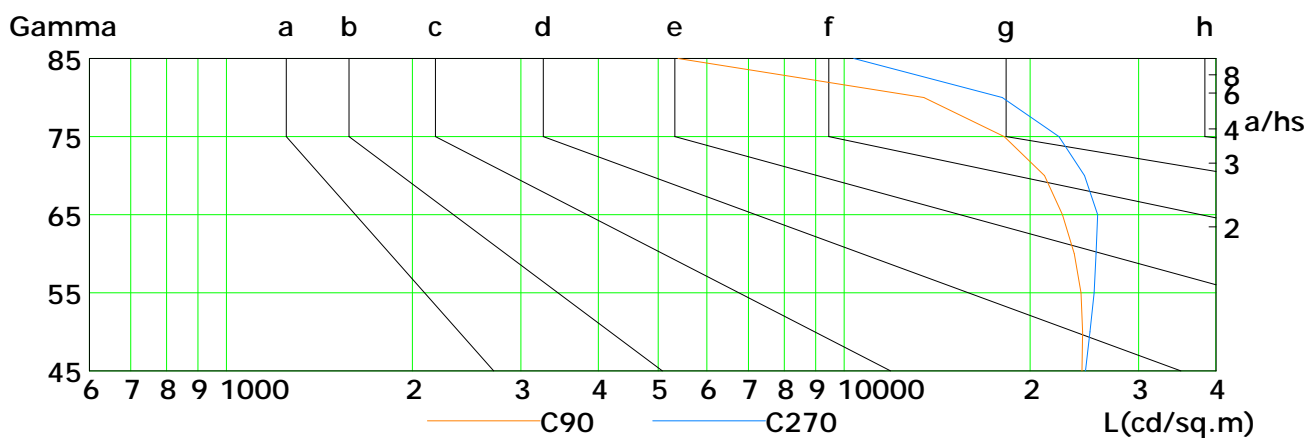
Complete Integrated LED Lighting Solutions

Fax: + 85 755 85290710(China) Page 7 of 15 Pages

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	21048	20528	19973	19204	18242	16696	14425	10933	6257
C90	24282	24348	24186	23590	22581	21122	18178	13461	5384
C180	20714	20151	19468	18604	17573	16130	13805	10318	5964
C270	24598	25012	25417	25599	25729	24519	22274	18039	10365

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:



acolyte®

Acolyte

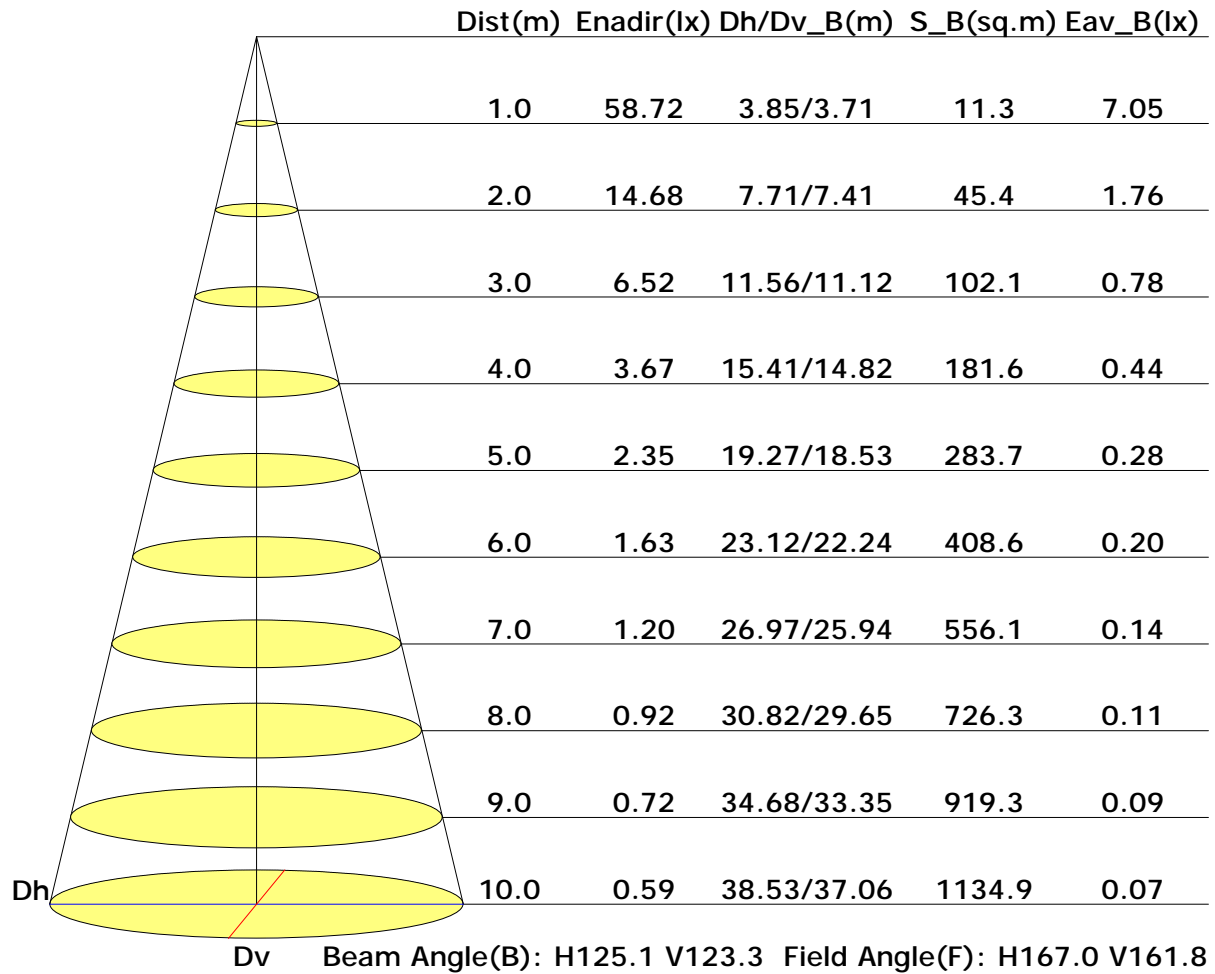
www.acolyteled.com

Tel: +1 210 360 1444(USA)

Complete Integrated LED Lighting Solutions

Fax: + 85 755 85290710(China) Page 8 of 15 Pages

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

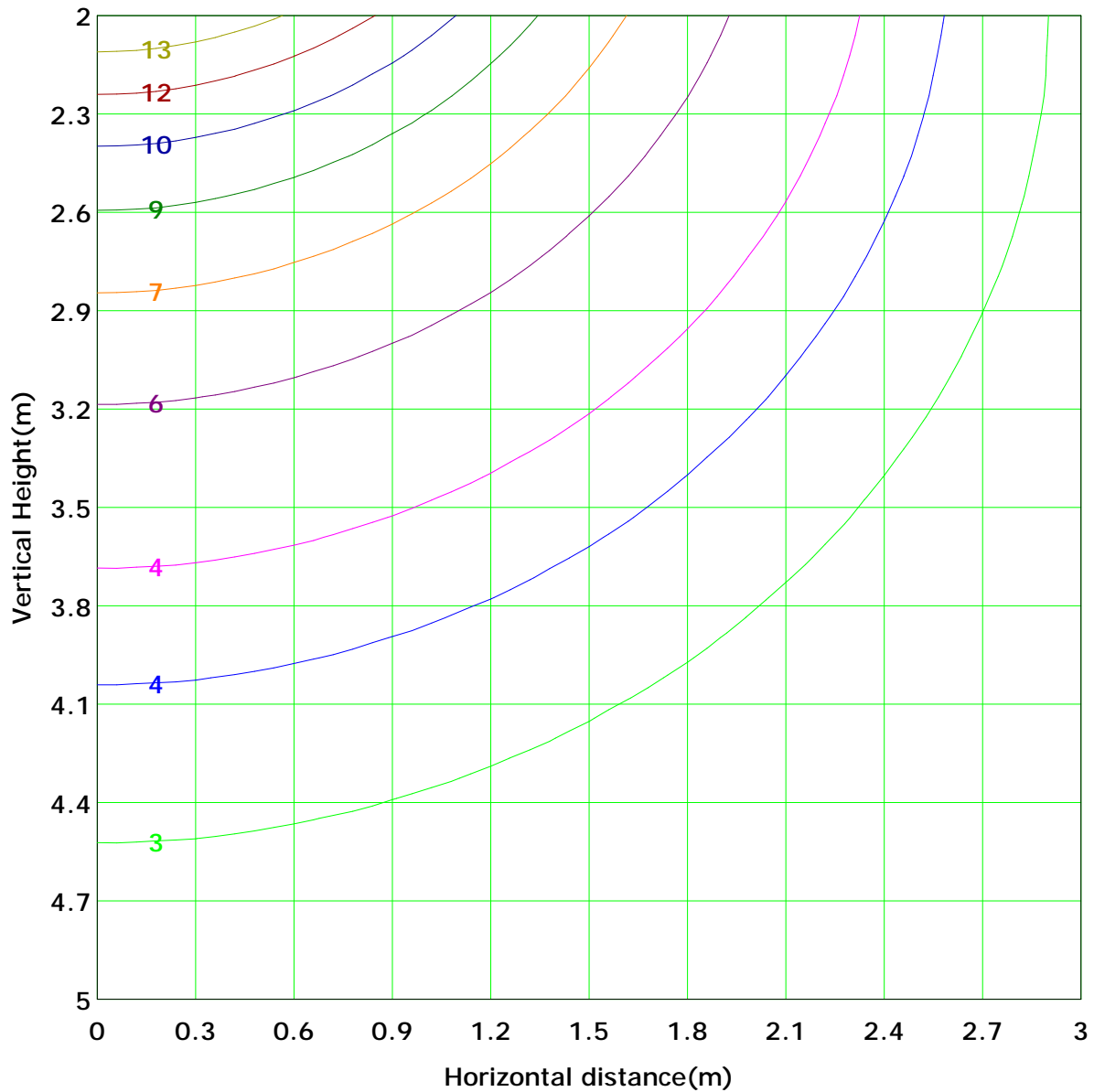
Distance: 9.028 m

Humidity: 60%

Inspector:



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 14.7 lx
(10%): 1.5 lx	(20%): 2.9 lx	
(25%): 3.7 lx	(30%): 4.4 lx	
(40%): 5.9 lx	(50%): 7.3 lx	
(60%): 8.8 lx	(70%): 10.3 lx	
(80%): 11.7 lx	(90%): 13.2 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:



A C O L Y T E

Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Complete Integrated LED Lighting Solutions

Fax: + 85 755 85290710(China) 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	0.1	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	0.2	0.1	
	-80	0.0	0.0	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	1.4	1.3	
	-70	0.0	0.1	0.1	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	3.8	3.7	
	-60	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.4	1.6	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	7.0	6.9	
	-50	0.0	0.1	0.4	0.7	0.9	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	10.6	10.5	
	-40	0.0	0.1	0.6	0.9	1.2	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	14.3	14.2	
	-30	0.0	0.1	0.7	1.1	1.4	1.7	1.9	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	17.3	17.2	
	-20	0.0	0.1	0.8	1.2	1.5	1.8	2.0	2.2	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	19.4	19.3	
	-10	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	20.4	20.3	
	0	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	20.5	20.4	
	10	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	19.5	19.4	
	20	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	17.4	17.3	
	30	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	14.5	14.3	
	40	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	10.9	10.8	
	50	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	7.3	7.2	
	60	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.0	3.9	
	70	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	1.5	1.3	
	80	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	0.2	0.1	
	90	0.0	0.1	0.8	1.3	1.6	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	0.2	0.1	
	Flux(E)	0.1	1.3	3.7	6.9	10.5	14.2	17.2	19.3	20.3	20.4	19.4	17.3	14.3	10.8	7.2	3.9	1.3	0.1		188	

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:



acolyte®

Complete Integrated LED Lighting Solutions

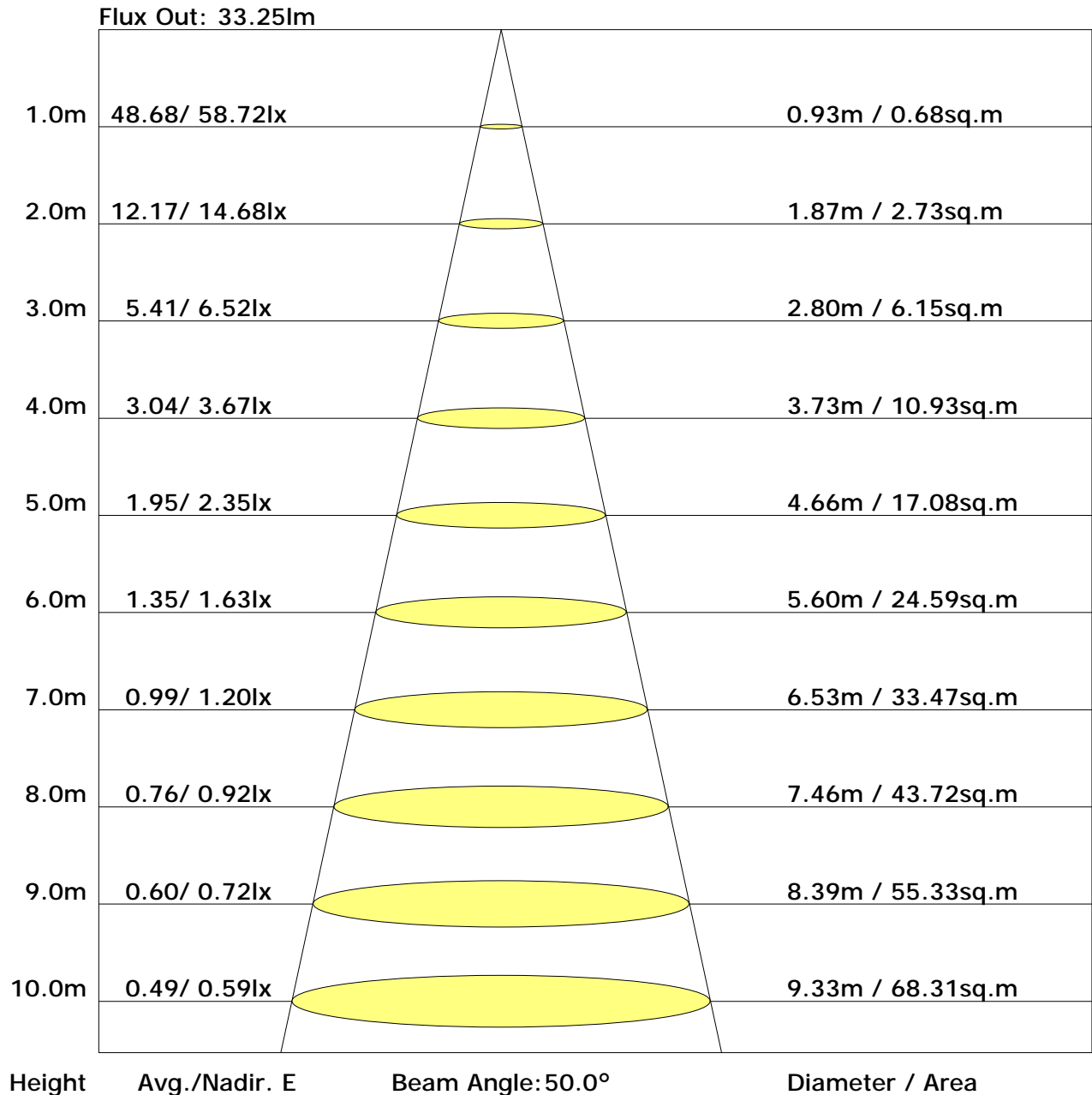
Acolyte

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	29.0	30.7	29.4	31.1	31.4	28.2	29.9	28.6	30.2	30.5
3H	31.2	32.7	31.6	33.0	33.4	29.8	31.3	30.2	31.6	32.0
4H	32.0	33.4	32.4	33.8	34.2	30.3	31.7	30.7	32.1	32.5
6H	32.6	34.0	33.1	34.4	34.8	30.5	31.9	31.0	32.3	32.7
8H	32.9	34.1	33.3	34.5	34.9	30.6	31.8	31.0	32.3	32.7
12H	33.0	34.2	33.4	34.6	35.1	30.6	31.8	31.0	32.2	32.6
X=4H Y=2H	29.6	31.1	30.0	31.4	31.8	28.9	30.3	29.3	30.7	31.1
3H	32.0	33.2	32.4	33.6	34.0	30.7	31.9	31.1	32.3	32.8
4H	32.9	34.0	33.4	34.4	34.9	31.3	32.4	31.8	32.9	33.3
6H	33.7	34.6	34.1	35.1	35.6	31.7	32.7	32.2	33.1	33.6
8H	33.9	34.8	34.4	35.3	35.8	31.8	32.7	32.2	33.1	33.6
12H	34.1	34.9	34.6	35.4	35.9	31.8	32.6	32.3	33.1	33.6
X=8H Y=4H	33.2	34.1	33.6	34.5	35.0	31.7	32.6	32.2	33.1	33.6
6H	34.0	34.8	34.5	35.3	35.8	32.2	32.9	32.7	33.4	33.9
8H	34.3	35.0	34.9	35.5	36.0	32.3	33.0	32.8	33.5	34.0
12H	34.6	35.2	35.1	35.7	36.3	32.3	32.9	32.9	33.4	34.0
X=12H Y=4H	33.2	34.0	33.7	34.5	35.0	31.8	32.6	32.3	33.1	33.6
6H	34.1	34.7	34.6	35.2	35.8	32.3	33.0	32.8	33.4	34.0
8H	34.4	35.0	34.9	35.5	36.1	32.4	33.0	32.9	33.5	34.1

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	0.57	0.65	0.73	0.79	0.86	0.91	0.95	0.99	1.03
	0.30		0.49	0.58	0.66	0.71	0.80	0.85	0.89	0.95	0.99
	0.20		0.44	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.96
0.50	0.50	0.20	0.55	0.63	0.71	0.76	0.83	0.88	0.91	0.95	0.98
	0.30		0.48	0.56	0.64	0.70	0.77	0.83	0.87	0.92	0.95
	0.20		0.43	0.51	0.59	0.65	0.73	0.78	0.83	0.89	0.92
0.30	0.50	0.20	0.54	0.61	0.68	0.73	0.80	0.84	0.87	0.91	0.94
	0.30		0.48	0.55	0.63	0.68	0.75	0.80	0.84	0.89	0.92
	0.20		0.43	0.50	0.58	0.64	0.71	0.77	0.81	0.86	0.89
0.00	0.00	0.00	0.41	0.48	0.55	0.60	0.68	0.73	0.76	0.81	0.85
<p>Rating: 7W 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	0.99	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.83	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.71	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.95	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.81	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.70	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.93	0.78	0.66	0.57	0.46	0.38	0.33	0.25	0.21	
	0.30		0.79	0.69	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.69	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.52	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
<p>Rating: 7W 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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<p>Rating: 7W 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>											