



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: 2018/10/12 11:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.421 A

Power Factor: 1.000

Luminaire Description: RBS220246.0A

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 10.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 243.8 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H125.1

Vertical Diffuse Angle(50%): V120.9

Luminaire Efficacy Rating (LER): 24

Max. Intensity: 75.38 cd

Total Rated Lamp Lumens: 243.8 lm

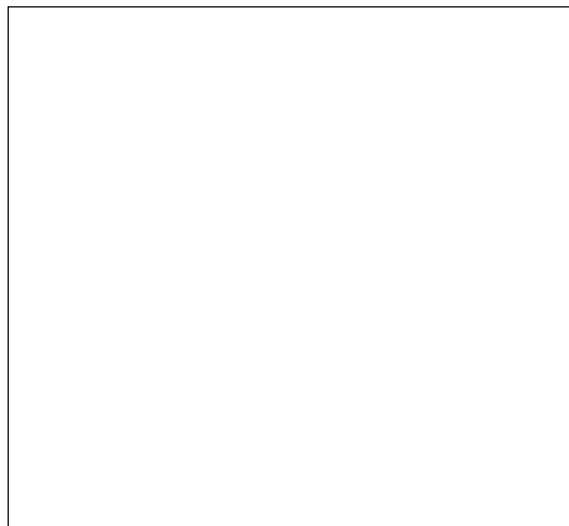
Efficiency: 100%

Upward Ratio: 1%

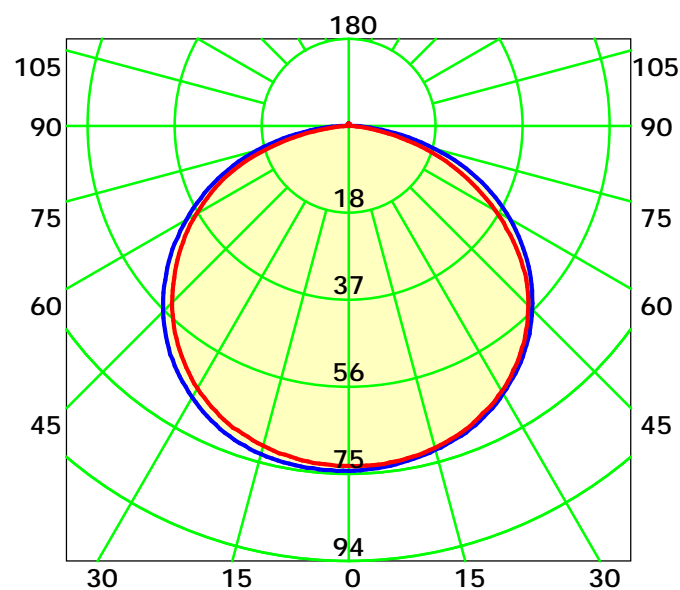
Central Intensity: 75.33 cd

Pos of Max. Intensity: H180 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 123.0° 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

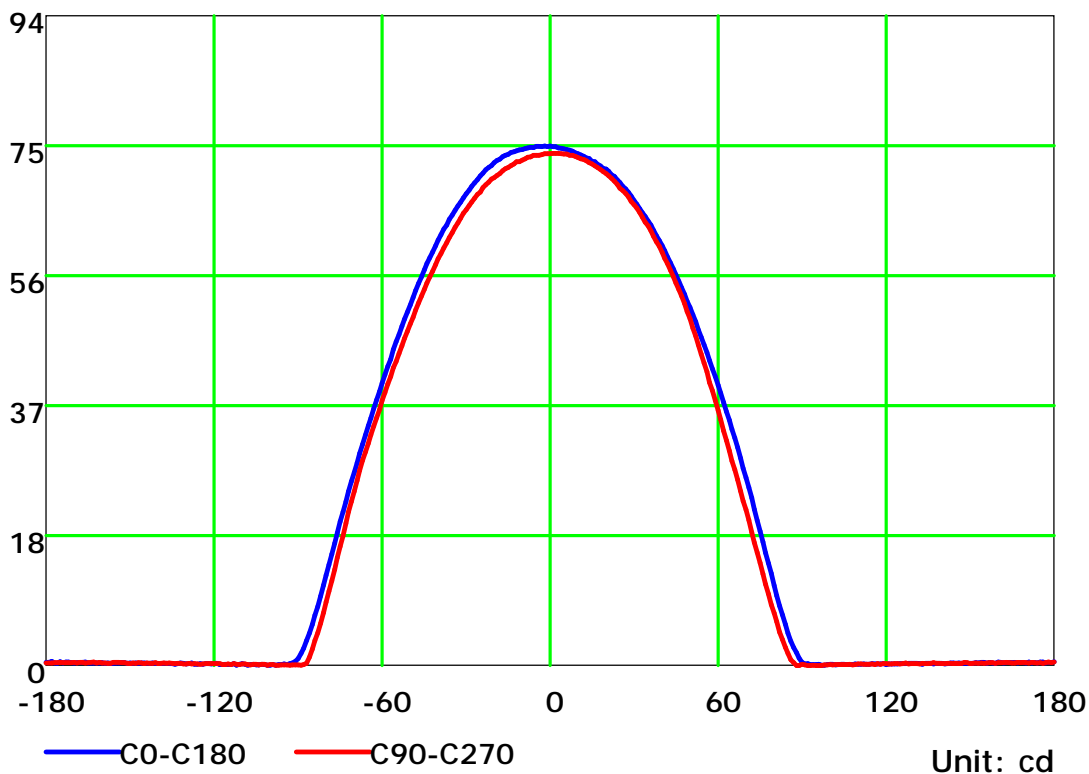
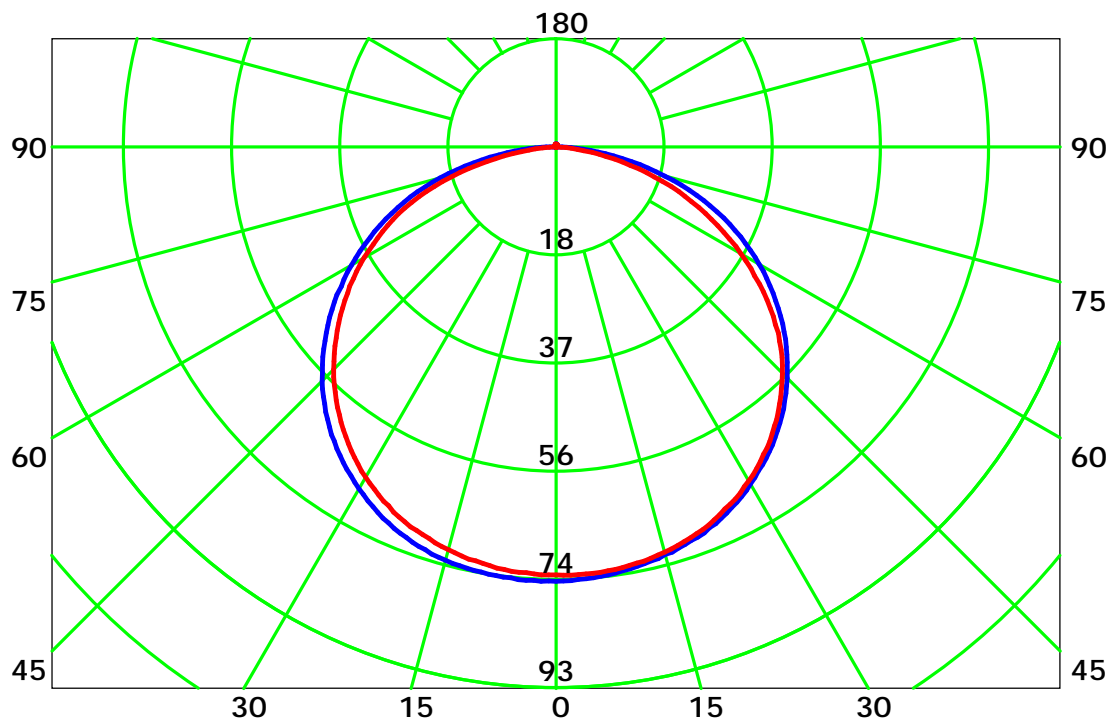
Test Device: GPM-1800B

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:



acolyte®

Complete Integrated LED Lighting Solutions

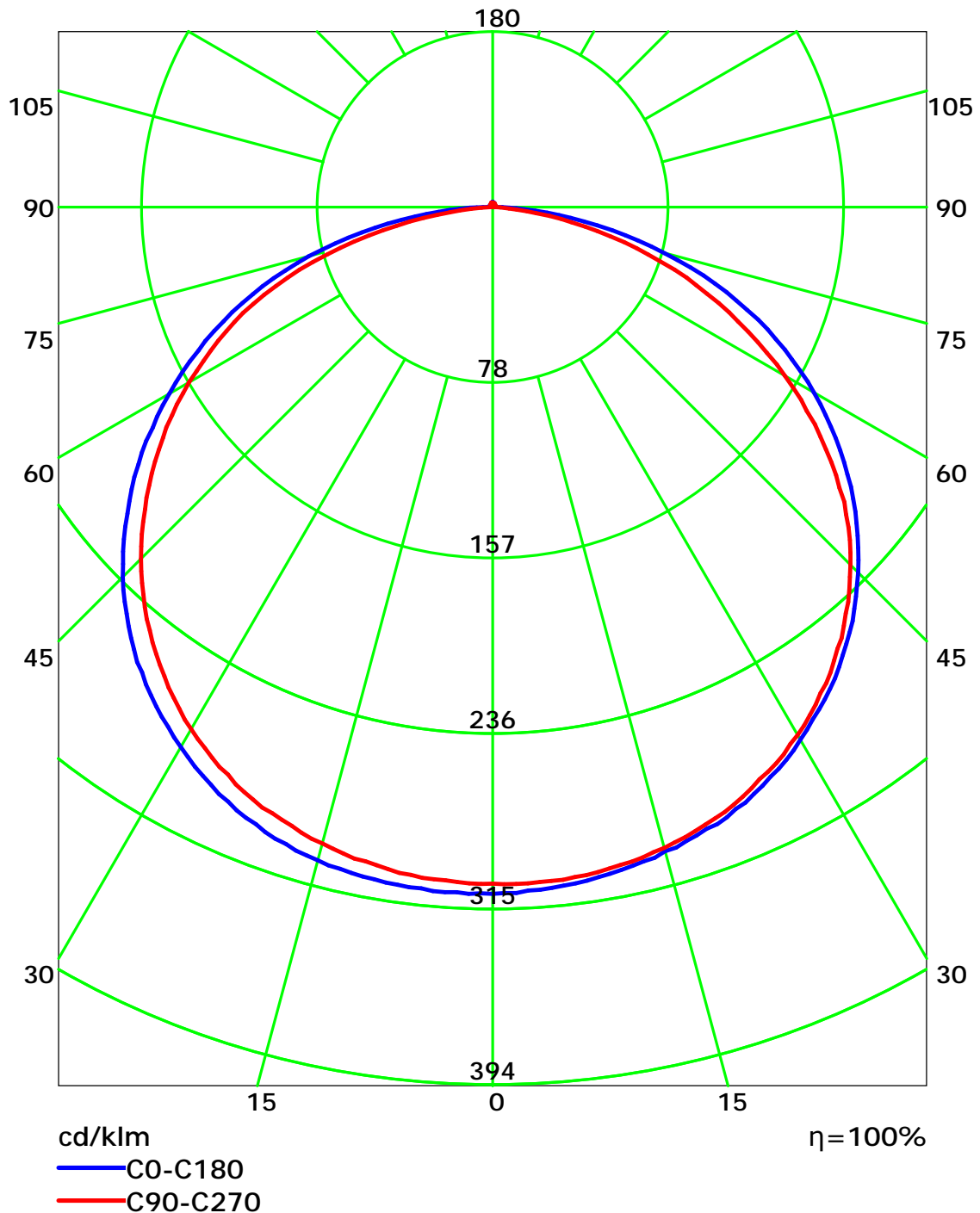
Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Fax: + 85 755 85290710(China) Page 3 of 15 Pages

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:



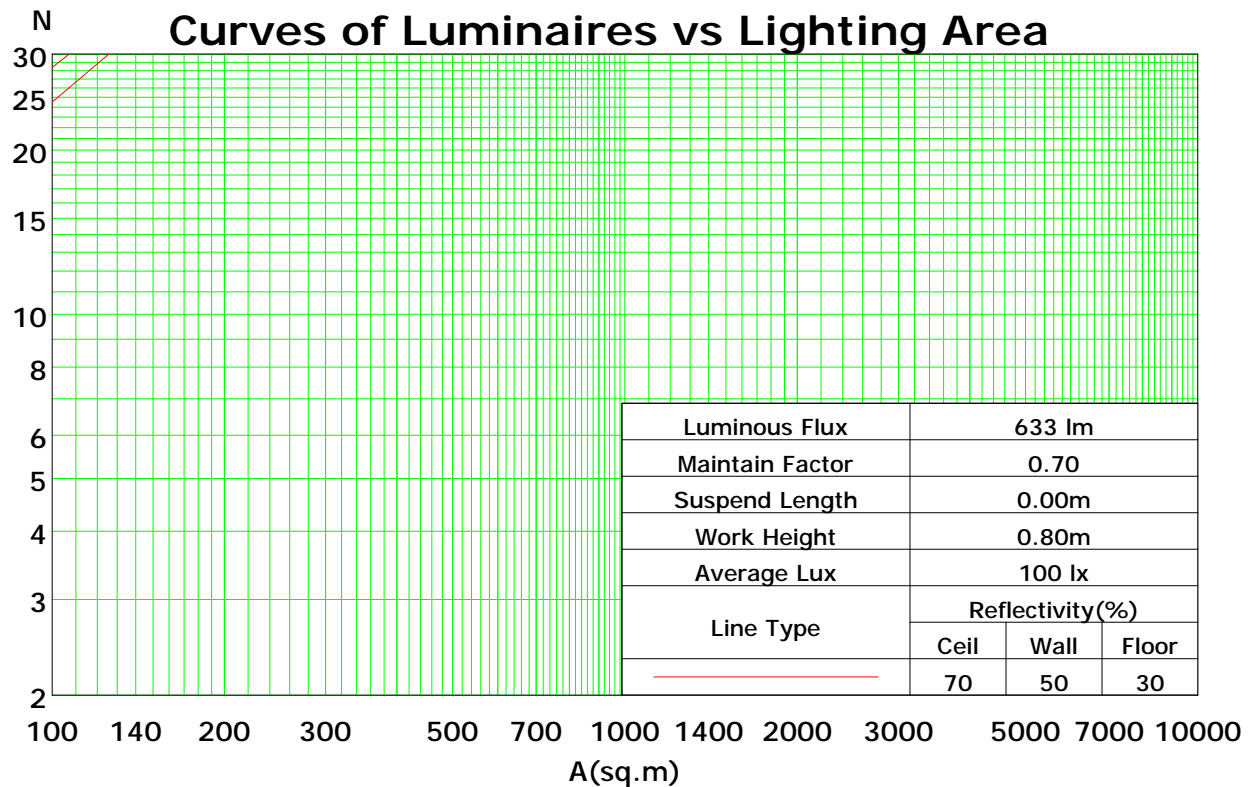
Coefficients Of Utilization - Zonal Cavity Method

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	101	96	93	96	93	90	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	78	69	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	68	59	52	78	67	59	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	57	50	44	55	49	43	53	47	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.34

Spacing Criteria (90-270): 1.33

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

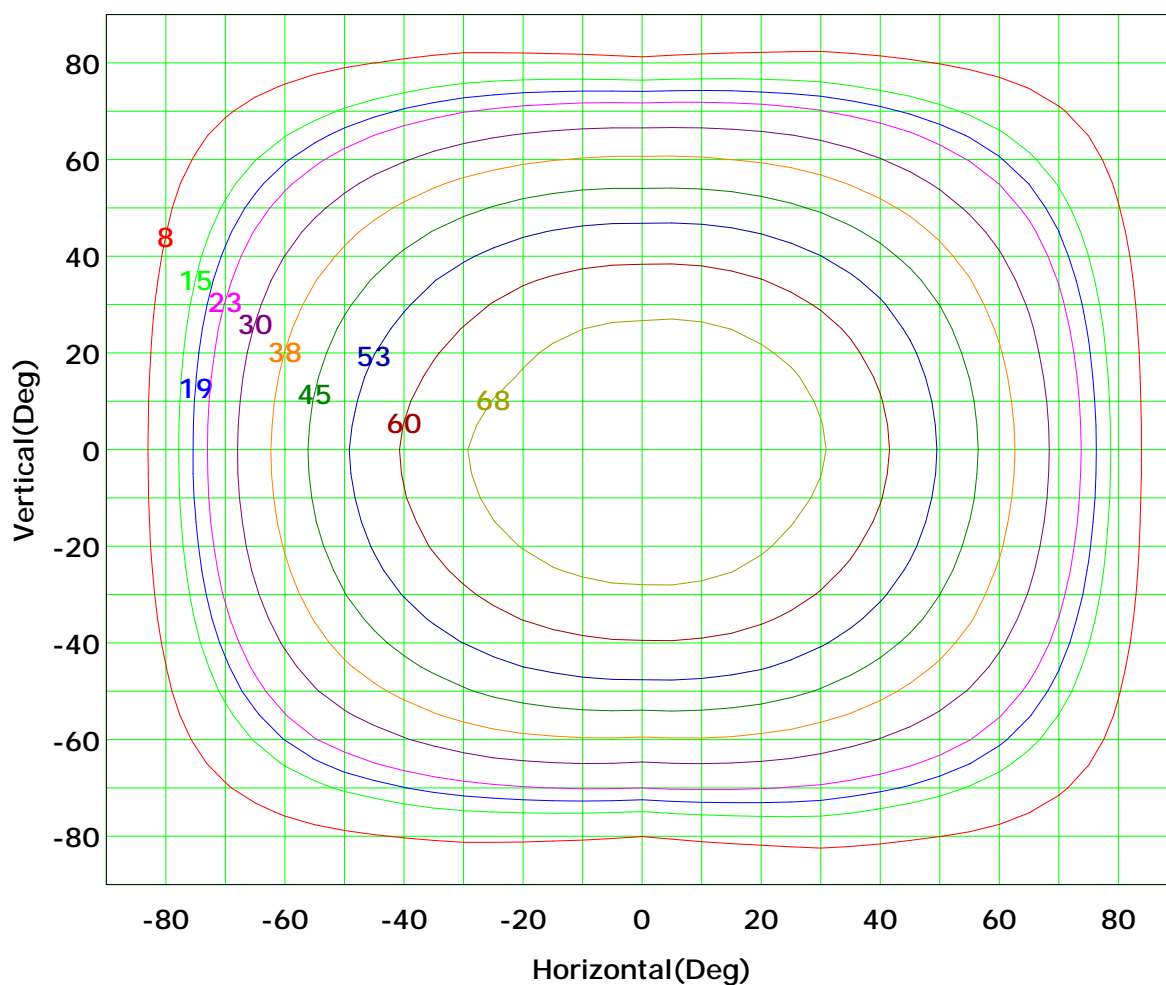
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 75 cd

(10%):	8 cd	(20%):	15 cd
(25%):	19 cd	(30%):	23 cd
(40%):	30 cd	(50%):	38 cd
(60%):	45 cd	(70%):	53 cd
(80%):	60 cd	(90%):	68 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:



acolyte®

Complete Integrated LED Lighting Solutions

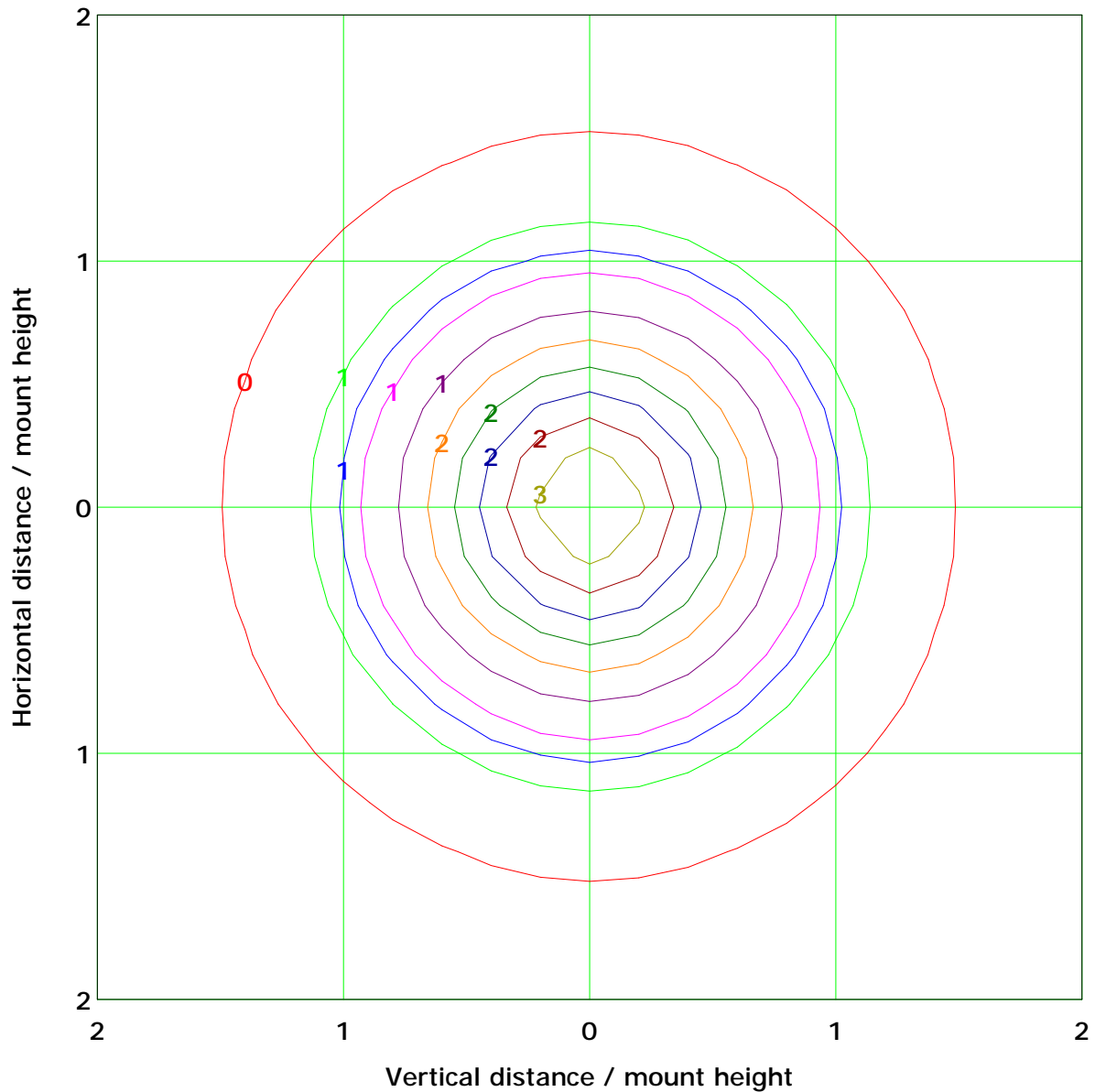
Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Fax: + 85 755 85290710(China) Page 6 of 15 Pages

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.0 lx

(10%): 0.3 lx	(20%): 0.6 lx
(25%): 0.8 lx	(30%): 0.9 lx
(40%): 1.2 lx	(50%): 1.5 lx
(60%): 1.8 lx	(70%): 2.1 lx
(80%): 2.4 lx	(90%): 2.7 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%

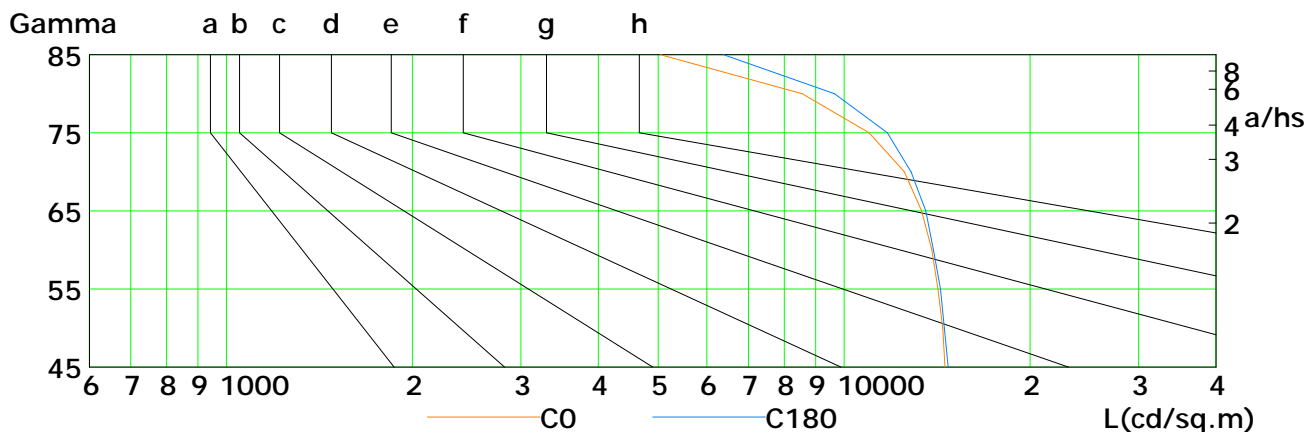
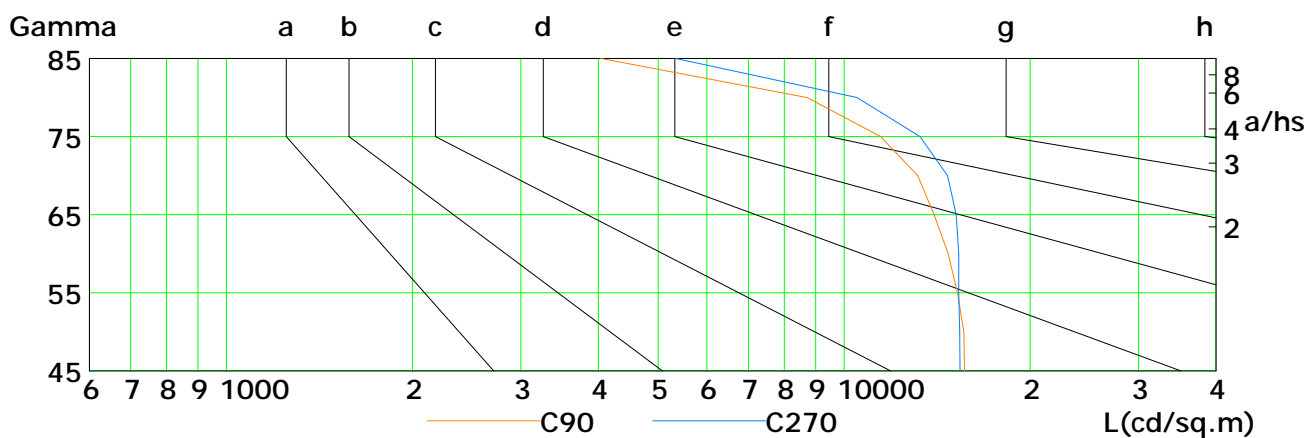
Inspector:



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	14574	14443	14194	13866	13350	12514	10984	8555	5043
C90	15664	15626	15260	14749	13995	13167	11459	8712	4038
C180	14752	14540	14334	13962	13557	12840	11755	9650	6382
C270	15401	15384	15340	15331	15183	14708	13277	10500	5339

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

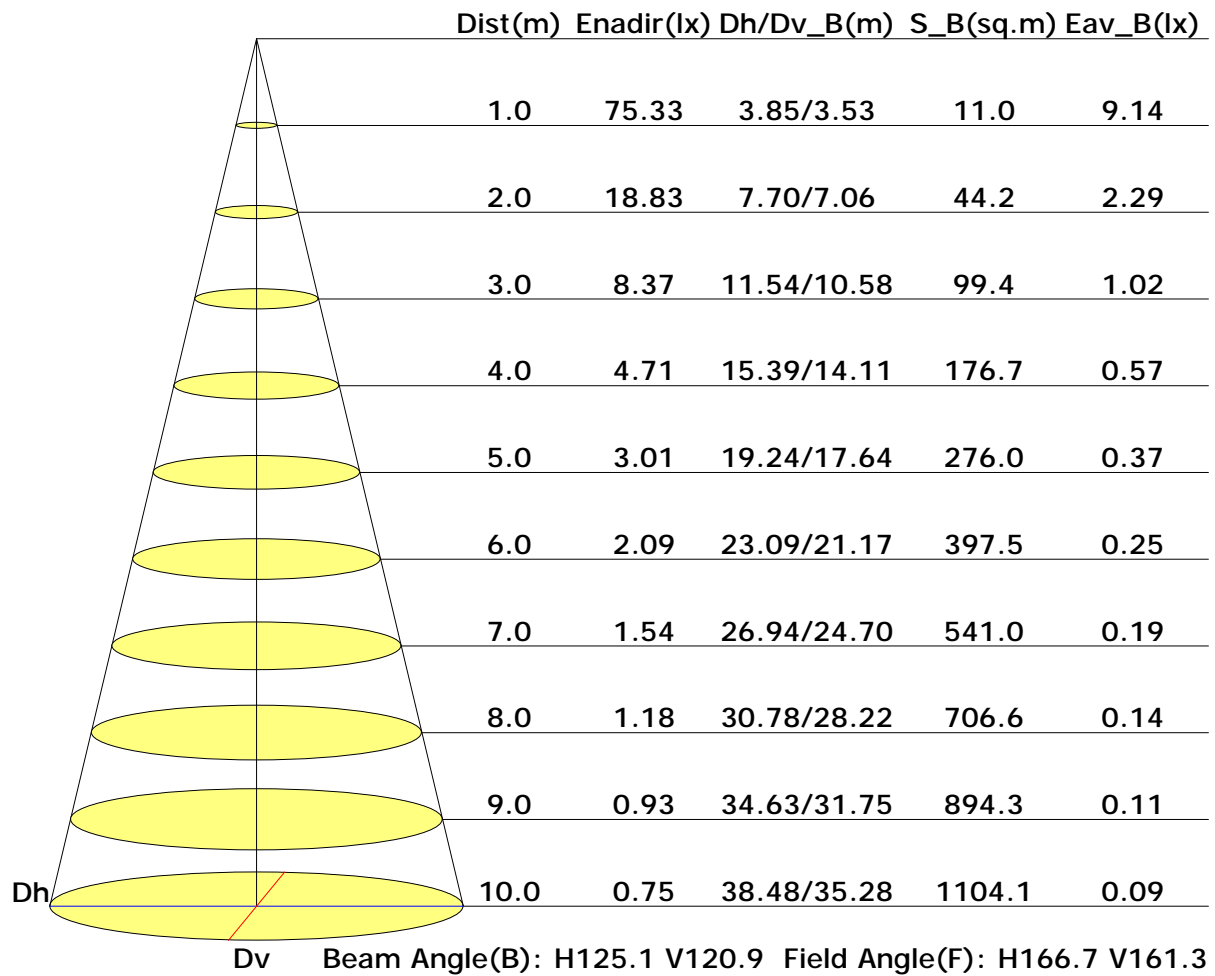
Distance: 9.028 m

Humidity: 60%

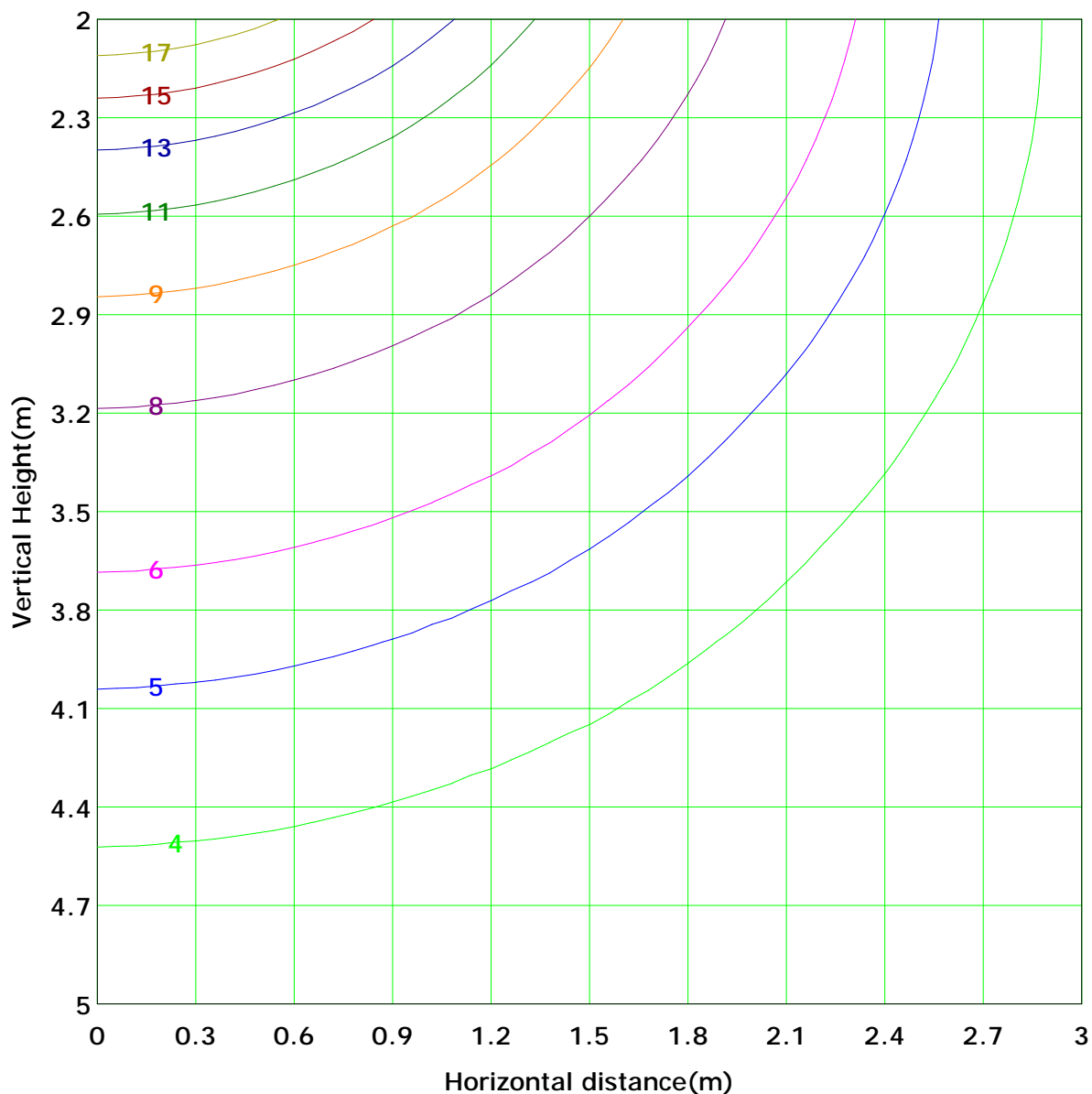
Inspector:



Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 18.8 lx
(10%): 1.9 lx	(20%): 3.8 lx	
(25%): 4.7 lx	(30%): 5.6 lx	
(40%): 7.5 lx	(50%): 9.4 lx	
(60%): 11.3 lx	(70%): 13.2 lx	
(80%): 15.1 lx	(90%): 16.9 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	0.1	0.3	0.1
	-80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	1.9	1.7
	-70	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	5.0	4.9
	-60	0.0	0.1	0.2	0.5	0.7	0.9	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	9.2	9.1
	-50	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	13.9	13.8
	-40	0.0	0.1	0.4	0.7	1.0	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	18.5	18.4
	-30	0.0	0.2	0.4	0.7	1.1	1.5	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	22.3	22.2
	-20	0.0	0.2	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	24.9	24.7
	-10	0.0	0.2	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	26.0	25.8
	0	0.0	0.2	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	25.9	25.7
	10	0.0	0.2	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	24.6	24.4
	20	0.0	0.2	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.2	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	0.0	21.9	21.8
	30	0.0	0.2	0.4	0.7	1.1	1.5	1.8	2.0	2.1	2.1	1.8	1.6	1.6	1.6	1.5	1.5	1.5	1.5	0.0	18.2	18.0
	40	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.7	1.4	1.2	1.3	1.0	1.1	1.1	1.1	1.1	0.0	13.7	13.5
	50	0.0	0.1	0.2	0.5	0.7	0.9	1.1	1.3	1.3	1.3	1.1	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.0	9.1	8.9
	60	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	0.9	0.9	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.0	4.9	4.7
	70	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.0	0.8	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.0	1.7	1.5
	80	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.0	0.2	0.1
	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	0.0	1.2	0.2
	Flux(T)	0.3	1.9	5.0	9.2	13.9	18.5	22.3	24.9	26.0	25.9	24.6	21.9	18.2	13.7	9.1	4.9	1.7	0.2	242		
	Flux(E)	0.1	1.7	4.9	9.1	13.8	18.4	22.2	24.7	25.8	25.7	24.4	21.8	18.0	13.5	8.9	4.7	1.5	0.1	239		

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

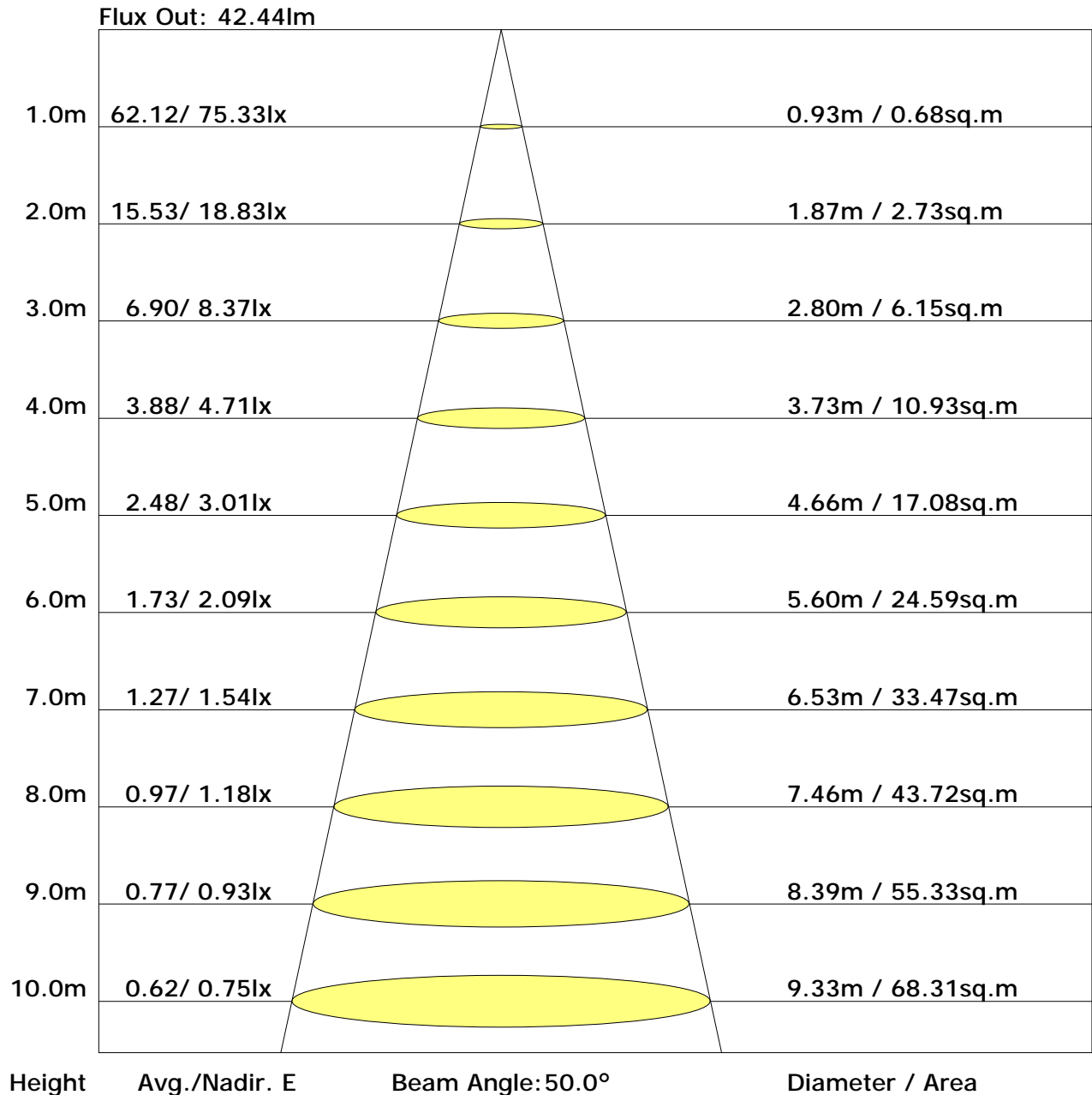
Acolyte

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	26.7	28.4	27.1	28.7	29.0	26.2	27.9	26.6	28.2	28.5
3H	28.8	30.3	29.2	30.6	31.0	27.8	29.3	28.2	29.7	30.1
4H	29.6	31.0	30.0	31.4	31.7	28.4	29.8	28.8	30.2	30.6
6H	30.1	31.5	30.6	31.8	32.2	28.7	30.0	29.1	30.4	30.8
8H	30.3	31.6	30.7	32.0	32.4	28.7	30.0	29.2	30.4	30.8
12H	30.4	31.6	30.9	32.0	32.5	28.7	29.9	29.2	30.3	30.8
X=4H Y=2H	27.3	28.7	27.7	29.1	29.5	26.9	28.4	27.3	28.7	29.1
3H	29.6	30.8	30.0	31.2	31.6	28.8	30.0	29.2	30.4	30.8
4H	30.5	31.6	31.0	32.0	32.5	29.5	30.6	29.9	31.0	31.4
6H	31.2	32.2	31.7	32.6	33.1	29.9	30.9	30.4	31.3	31.8
8H	31.4	32.3	31.9	32.8	33.3	30.0	30.9	30.5	31.3	31.8
12H	31.6	32.4	32.1	32.9	33.4	30.0	30.8	30.5	31.3	31.8
X=8H Y=4H	30.8	31.7	31.3	32.1	32.6	29.9	30.8	30.4	31.3	31.7
6H	31.6	32.3	32.1	32.8	33.3	30.4	31.2	31.0	31.7	32.2
8H	31.9	32.6	32.4	33.1	33.6	30.6	31.3	31.1	31.8	32.3
12H	32.1	32.7	32.6	33.2	33.8	30.7	31.3	31.2	31.8	32.3
X=12H Y=4H	30.8	31.6	31.3	32.1	32.6	30.0	30.8	30.4	31.3	31.7
6H	31.7	32.3	32.2	32.8	33.3	30.6	31.2	31.1	31.7	32.3
8H	32.0	32.6	32.5	33.1	33.6	30.8	31.3	31.3	31.8	32.4

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	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03
	0.30		0.49	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99
	0.20		0.44	0.52	0.60	0.66	0.75	0.81	0.85	0.91	0.96
0.50	0.50	0.20	0.56	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98
	0.30		0.49	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.43	0.51	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.54	0.62	0.69	0.73	0.80	0.84	0.87	0.92	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	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.41	0.48	0.55	0.61	0.68	0.73	0.77	0.81	0.85
<p>Rating: 10W 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	0.99	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.22	
	0.30		0.82	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.71	0.63	0.55	0.49	0.41	0.35	0.31	0.25	0.20	
0.50	0.50	0.20	0.95	0.81	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.80	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.20	
	0.20		0.70	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.92	0.78	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.79	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
<p>Rating: 10W 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	0.17	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: 10W 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>											