GENLED Acolyte®
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Report No.: **Test Time: 2017/8/14 16:15**

Luminaire Property

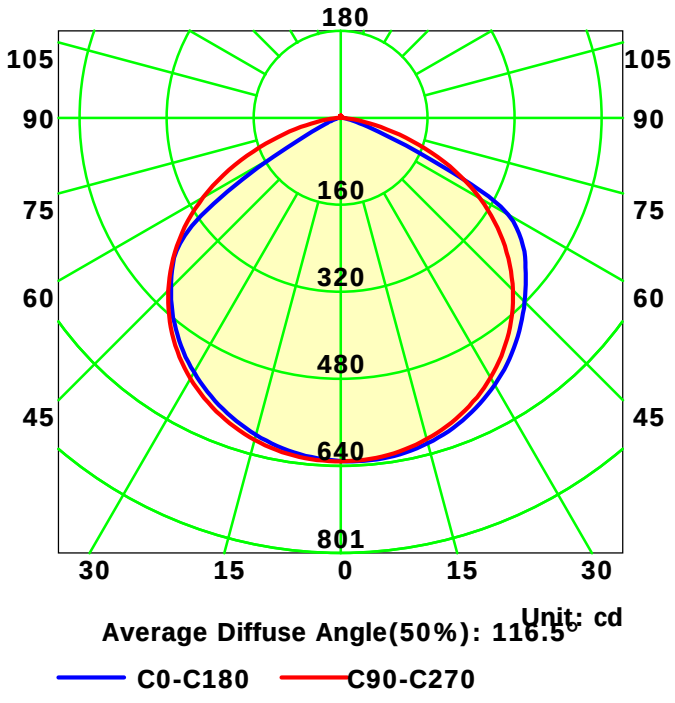
Luminaire Manufacturer: Acolyte
Luminaire Category: Direct AC RB
Luminaire Description: 4000K
Luminous Length (mm): 1220
Luminous Width (mm): 15
Luminous Height (mm): 5
Voltage: 119.8 V
Current: 0.160 A
Power: 16.34 W
Power Factor: 0.854

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 1752.6 lm
Measurement Flux: 1752.6 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H116.6
Vertical Diffuse Angle(50%): V116.3
Luminaire Efficacy Rating (LER): 107
Central Intensity: 631.58 cd
Max. Intensity: 633.22 cd
Pos of Max. Intensity: H30 V3

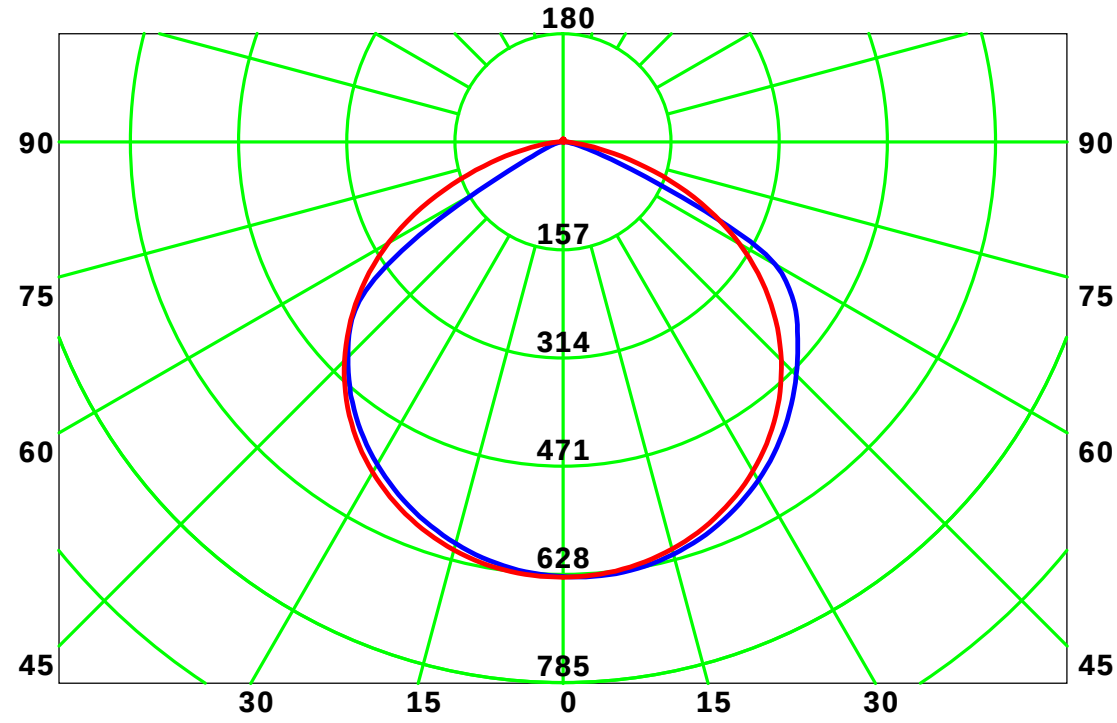
Picture Of Luminaire

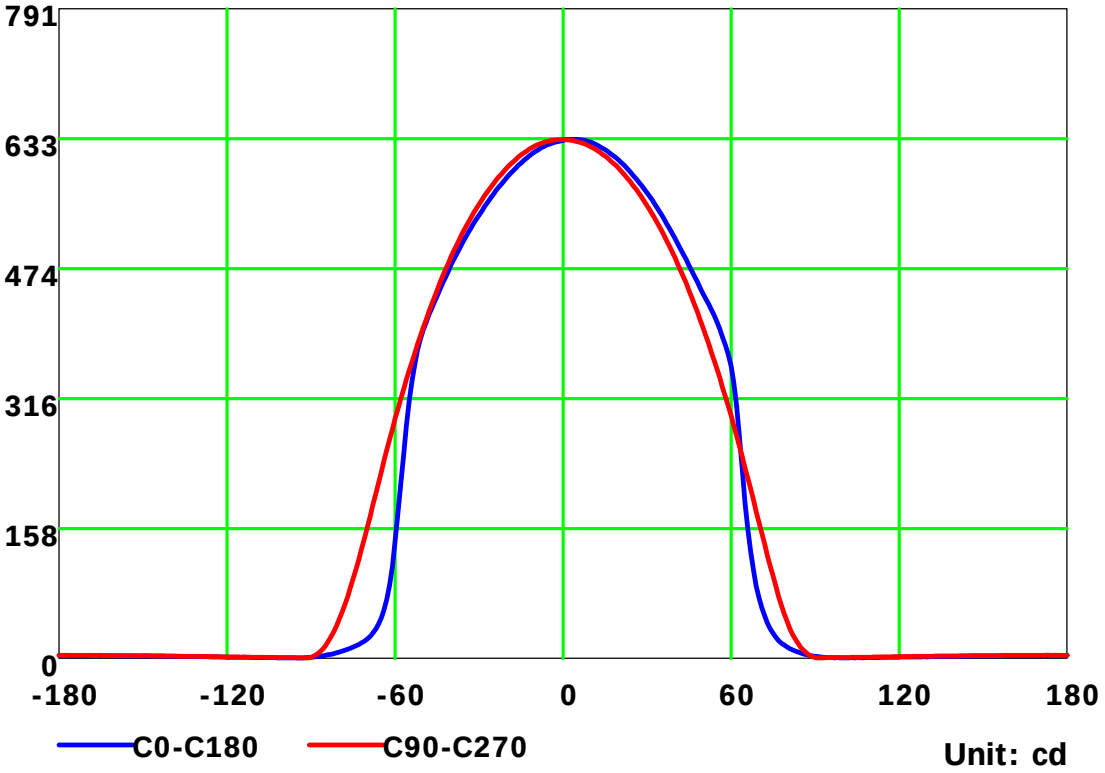
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: acolyteled
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 9.028 m
Temperature: 25℃
Humidity: 60%
Operator: Aaron
Inspector:

Luminous Intensity Distribution Curve





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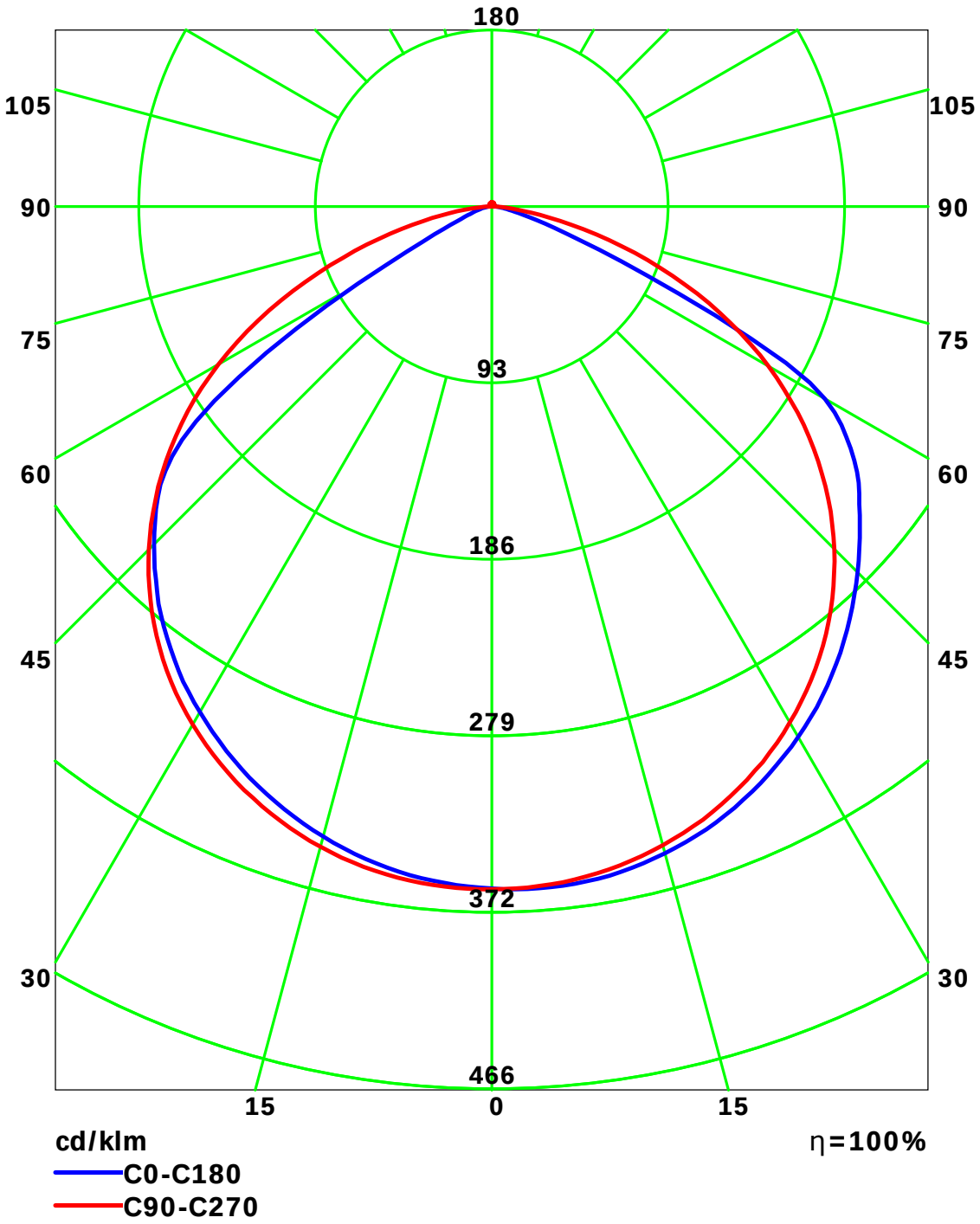
Luminous Intensity Distribution Curve(cd/klm)



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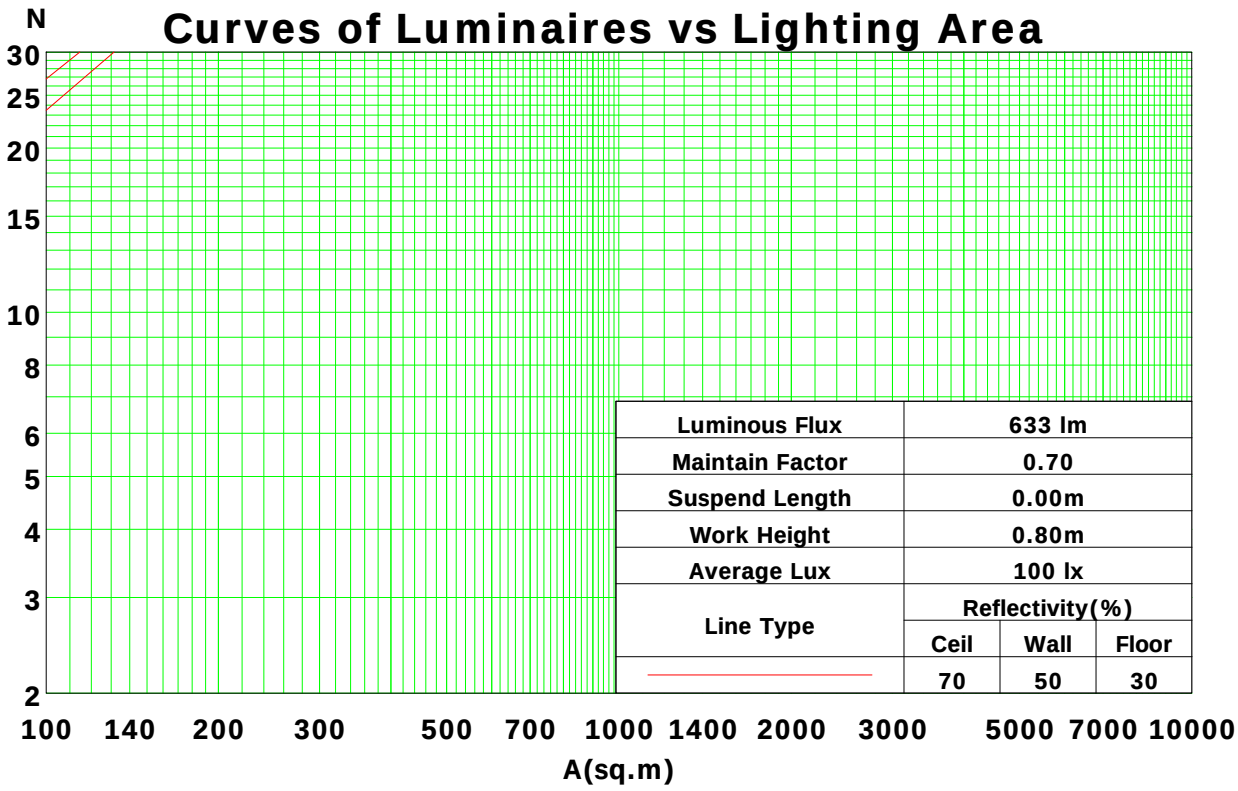
Inspector:

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	110	106	102	98	107	103	100	97	99	96	93	95	93	90	91	89	88	86
2	100	93	87	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57	66	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	71	59	50	44	70	58	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.31
Spacing Criteria (90-270): 1.30
Spacing Criteria (Diagonal): 1.42

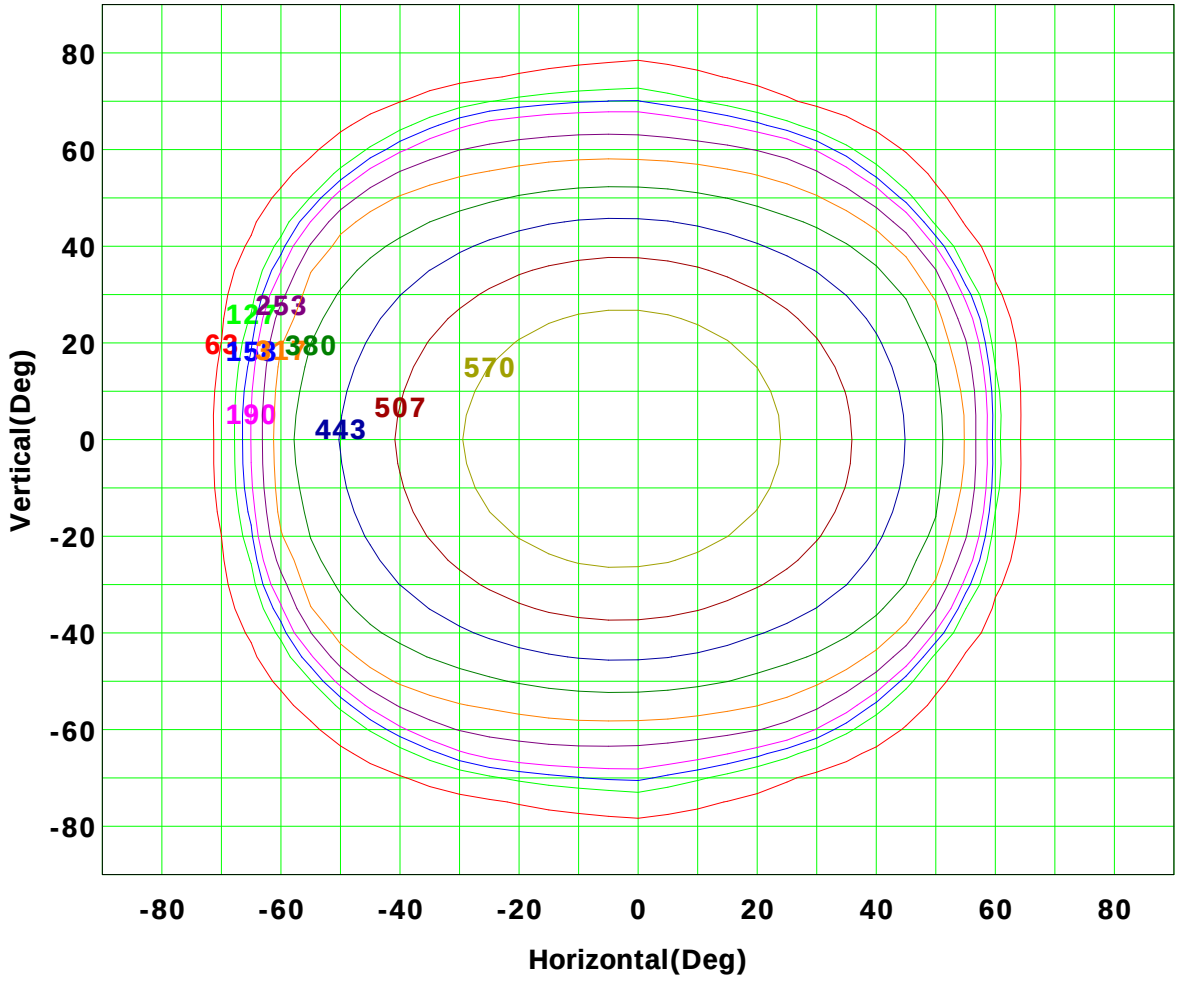
Curves of Luminaires vs Lighting Area



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)



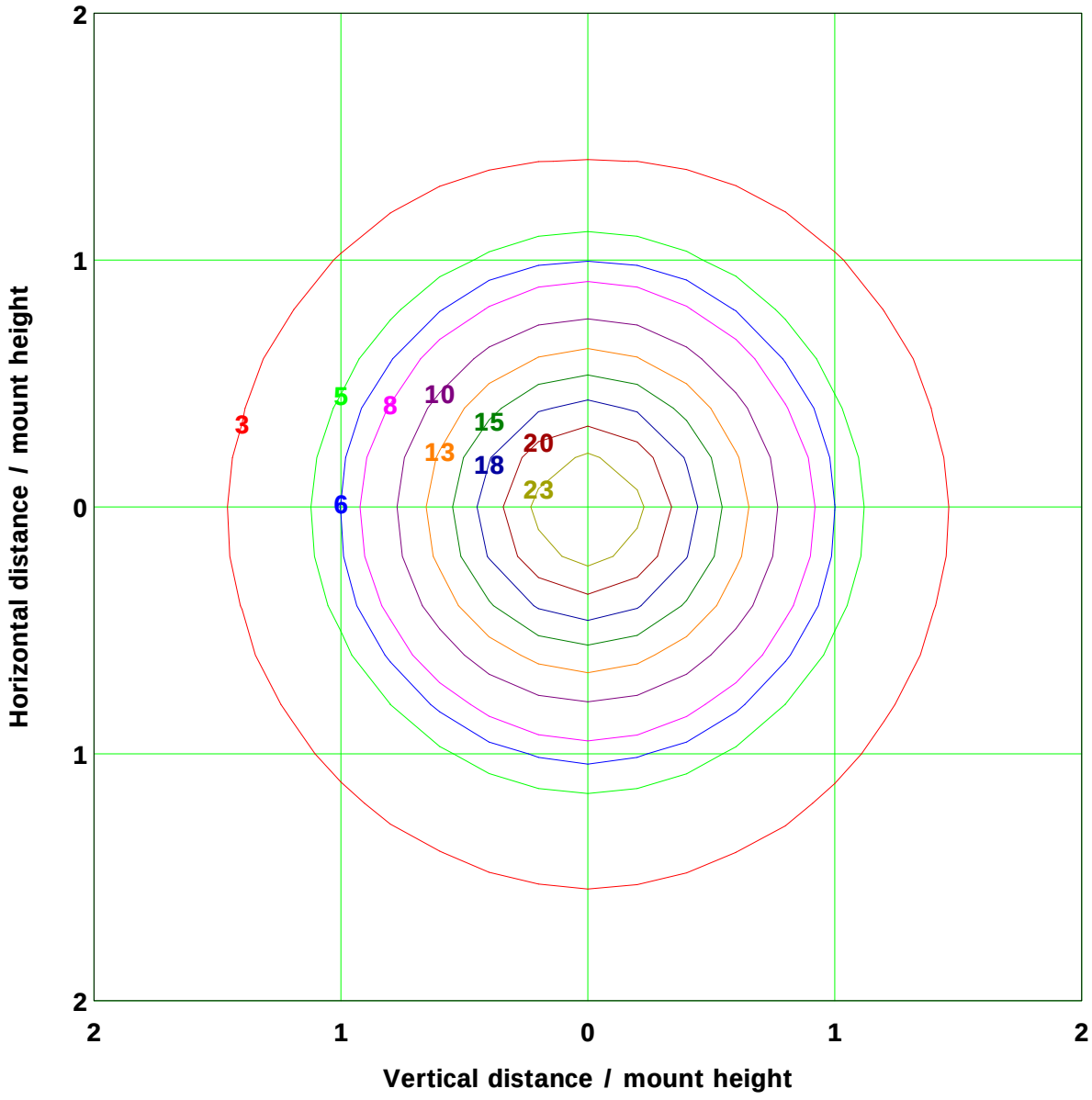
Imax (100%): 633 cd

(10%): 63 cd	(20%): 127 cd
(25%): 158 cd	(30%): 190 cd
(40%): 253 cd	(50%): 317 cd
(60%): 380 cd	(70%): 443 cd
(80%): 507 cd	(90%): 570 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%): 25.3 lx**

(10%): 2.5 lx	**(20%): 5.1 lx**
(25%): 6.3 lx	**(30%): 7.6 lx**
(40%): 10.1 lx	**(50%): 12.7 lx**
(60%): 15.2 lx	**(70%): 17.7 lx**
(80%): 20.2 lx	**(90%): 22.8 lx**

C Plane (°):0.0-360.0: 30.0
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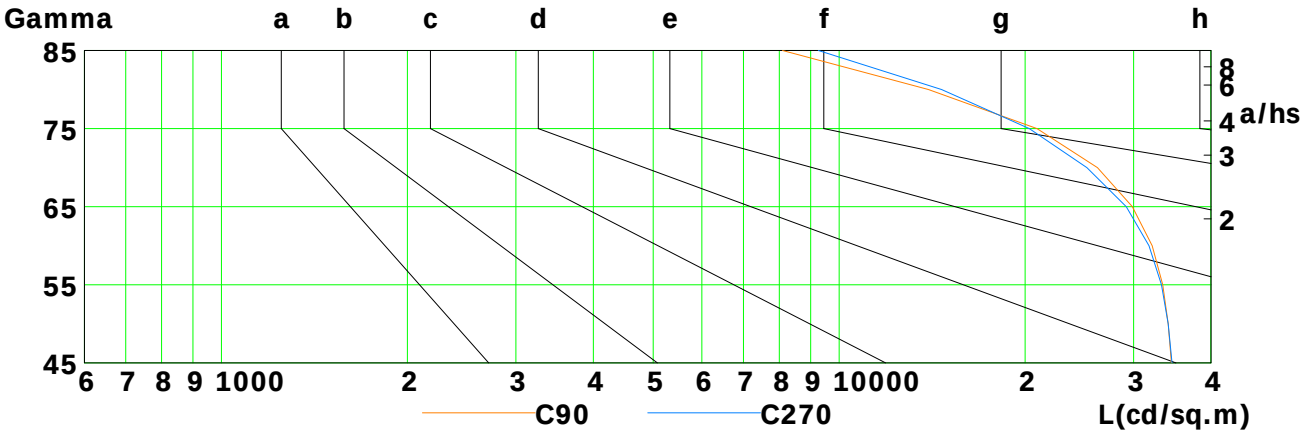
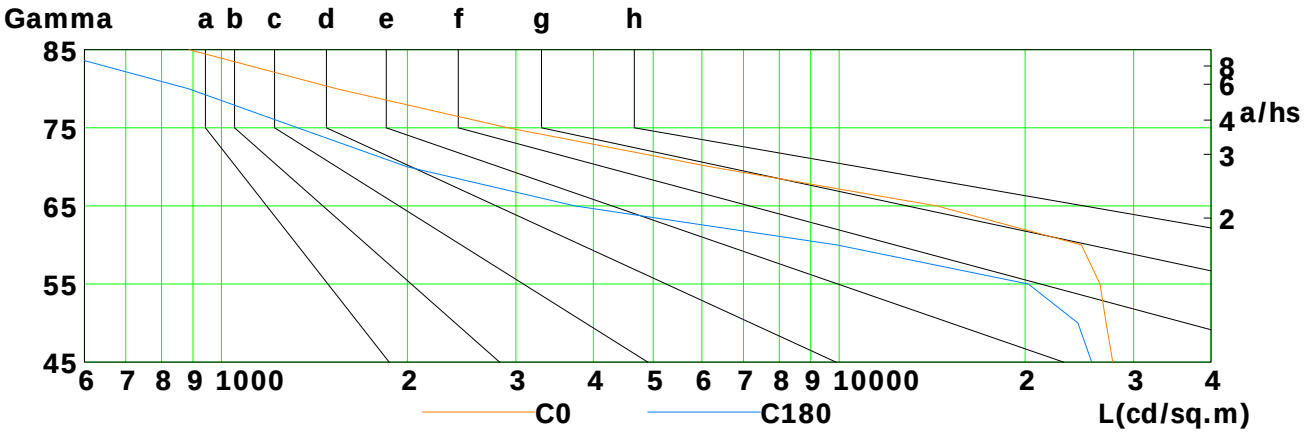
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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



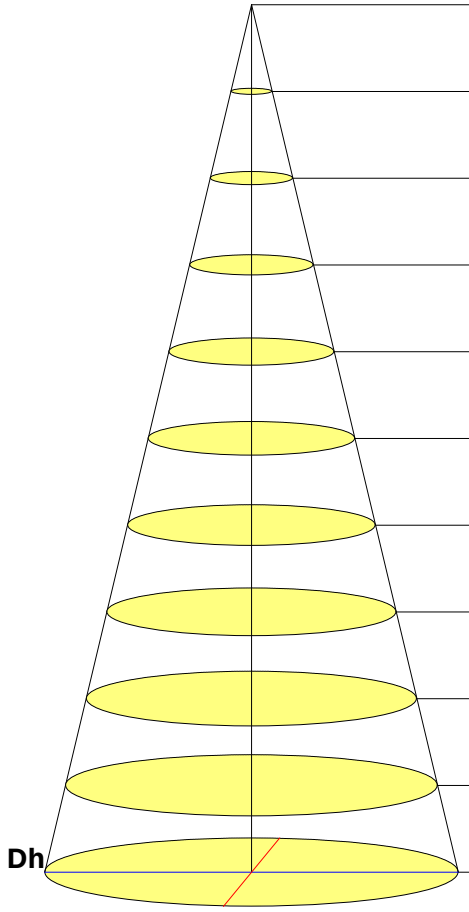


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	27765	27067	26454	24679	14402	6197	2911	1537	886
C90	34515	34114	33407	32133	29826	26201	20920	13956	8097
C180	25634	24378	20251	9918	3735	2001	1328	885	519
C270	34590	34119	33251	31751	29165	25198	20325	14657	9259

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



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	631.58	3.24/3.22	8.5	91.54
2.0	157.90	6.48/6.44	34.2	22.89
3.0	70.18	9.72/9.66	76.8	10.17
4.0	39.47	12.96/12.88	136.6	5.72
5.0	25.26	16.20/16.11	213.5	3.66
6.0	17.54	19.44/19.33	307.4	2.54
7.0	12.89	22.68/22.55	418.4	1.87
8.0	9.87	25.93/25.77	546.5	1.43
9.0	7.80	29.17/28.99	691.6	1.13
10.0	6.32	32.41/32.21	853.8	0.92

Beam Angle(B): H116.6 V116.3 Field Angle(F): H134.6 V156.4

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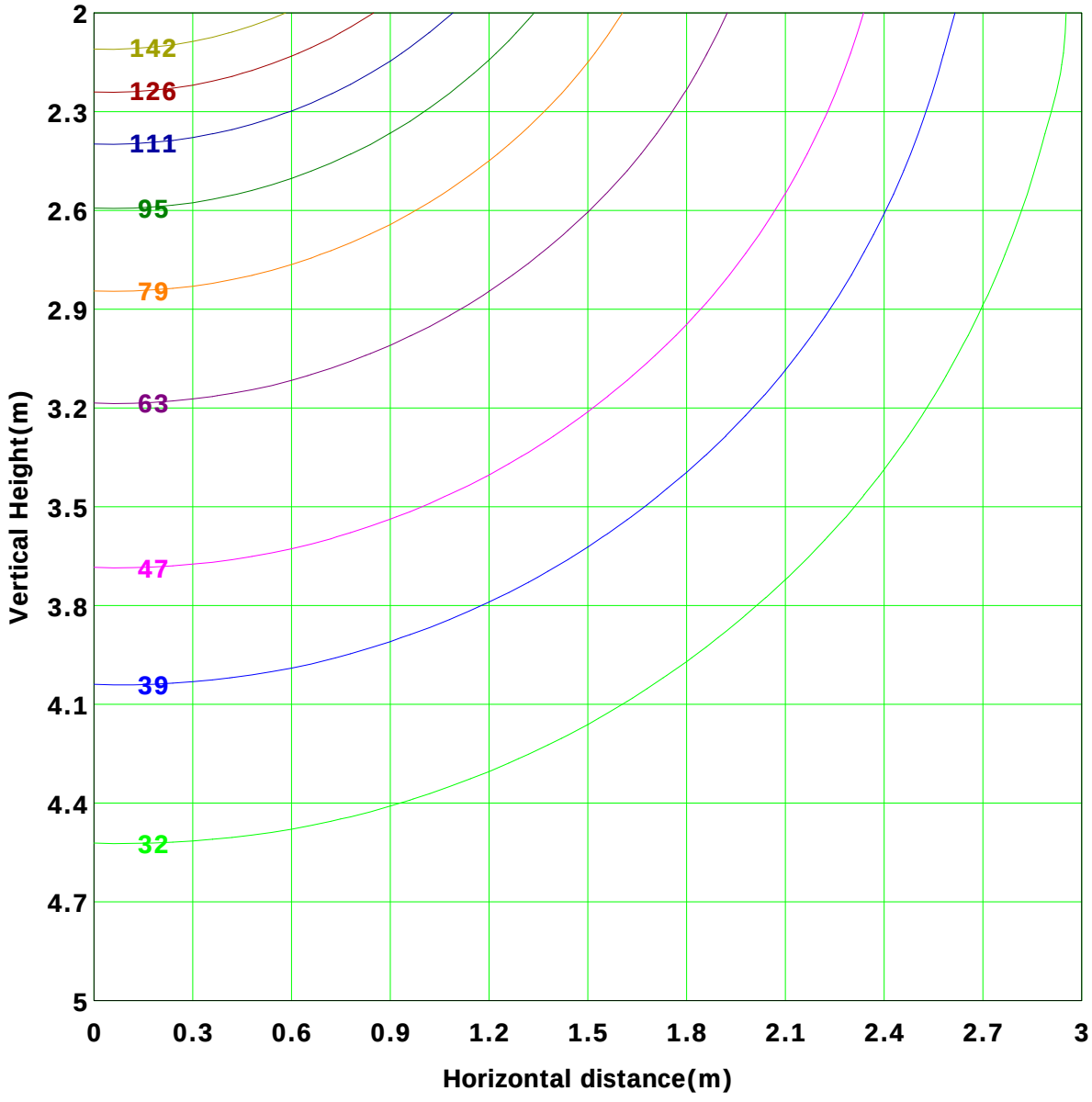
Test Type: TYPE C
Temperature: 25℃
Operator: Aaron

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: 158.0 lx

(10%): 15.8 lx	(20%): 31.6 lx
(25%): 39.5 lx	(30%): 47.4 lx
(40%): 63.2 lx	(50%): 79.0 lx
(60%): 94.8 lx	(70%): 110.6 lx
(80%): 126.4 lx	(90%): 142.2 lx

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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:

Area Flux Table

Unit: lm

Vertical plane \ Horizontal plane	-90~-80	-80~-70	-70~-60	-60~-50	-50~-40	-40~-30	-30~-20	-20~-10	-10~0	0~10	10~20	20~30	30~40	40~50	50~60	60~70	70~80	80~90	Flux(T)	Flux(E)
-90~-80	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	3.2	0.0
-80~-70	0.0	0.0	0.1	0.1	0.3	0.5	1.1	1.9	2.7	2.9	2.4	1.8	1.1	0.5	0.3	0.1	0.0	0.0	15.9	9.6
-70~-60	0.0	0.0	0.1	0.3	0.8	2.1	3.9	5.5	6.6	6.9	6.5	5.5	3.7	1.8	0.7	0.2	0.1	0.0	44.8	42.0
-60~-50	0.0	0.1	0.2	0.6	2.1	5.2	8.0	9.6	10.5	10.6	10.1	8.9	7.2	4.4	1.6	0.4	0.1	0.0	79.5	77.8
-50~-40	0.0	0.1	0.3	1.2	4.7	8.4	10.7	12.4	13.4	13.6	12.9	11.4	9.5	7.1	3.4	0.8	0.1	0.0	110.1	108.8
-40~-30	0.0	0.1	0.4	2.5	7.2	10.3	12.8	14.6	15.7	15.9	15.0	13.4	11.0	8.4	5.2	1.3	0.2	0.0	134.1	133.1
-30~-20	0.0	0.1	0.6	3.9	8.5	11.6	14.2	16.2	17.3	17.5	16.6	14.8	12.2	9.3	6.3	1.9	0.2	0.0	151.2	150.4
-20~-10	0.0	0.1	0.8	4.8	9.2	12.3	15.1	17.2	18.4	18.6	17.6	15.7	13.0	9.9	6.8	2.5	0.3	0.0	162.3	161.6
-10~0	0.0	0.1	0.8	5.2	9.5	12.7	15.5	17.7	18.9	19.1	18.1	16.1	13.4	10.2	7.1	2.7	0.3	0.0	167.6	167.0
0~10	0.0	0.1	0.8	5.3	9.5	12.7	15.5	17.7	18.9	19.1	18.1	16.1	13.4	10.2	7.1	2.7	0.3	0.0	167.6	166.9
10~20	0.0	0.1	0.8	4.9	9.2	12.3	15.1	17.2	18.4	18.5	17.6	15.7	13.0	9.9	6.8	2.4	0.3	0.0	162.2	161.4
20~30	0.0	0.1	0.6	3.9	8.5	11.6	14.2	16.1	17.3	17.4	16.6	14.7	12.2	9.3	6.3	1.9	0.2	0.0	151.1	150.3
30~40	0.0	0.1	0.4	2.5	7.3	10.4	12.7	14.6	15.7	15.8	15.0	13.3	11.0	8.5	5.2	1.3	0.2	0.0	134.0	133.0
40~50	0.0	0.1	0.3	1.2	4.7	8.5	10.8	12.4	13.4	13.6	12.9	11.4	9.5	7.2	3.3	0.8	0.1	0.0	110.2	108.9
50~60	0.0	0.1	0.2	0.6	2.1	5.3	8.1	9.7	10.5	10.7	10.1	8.9	7.2	4.4	1.6	0.4	0.1	0.0	80.0	78.2
60~70	0.0	0.0	0.1	0.3	0.8	2.0	3.9	5.6	6.7	7.0	6.6	5.6	3.7	1.8	0.6	0.2	0.1	0.0	45.2	42.4
70~80	0.0	0.0	0.1	0.1	0.3	0.5	1.1	1.9	2.7	2.9	2.4	1.7	1.0	0.5	0.3	0.1	0.0	0.0	15.8	9.6
80~90	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	3.0	0.0
Flux(T)	0.2	1.3	6.6	37.5	84.8	126.8	163.1	191.0	208.1	211.0	199.3	175.7	142.7	104.0	62.7	20.0	2.8	0.3	1738	
Flux(E)	0.0	0.0	2.4	34.4	82.3	124.6	160.9	189.0	206.3	209.3	197.5	173.8	140.8	101.9	60.4	17.3	0.2	0.0		1701

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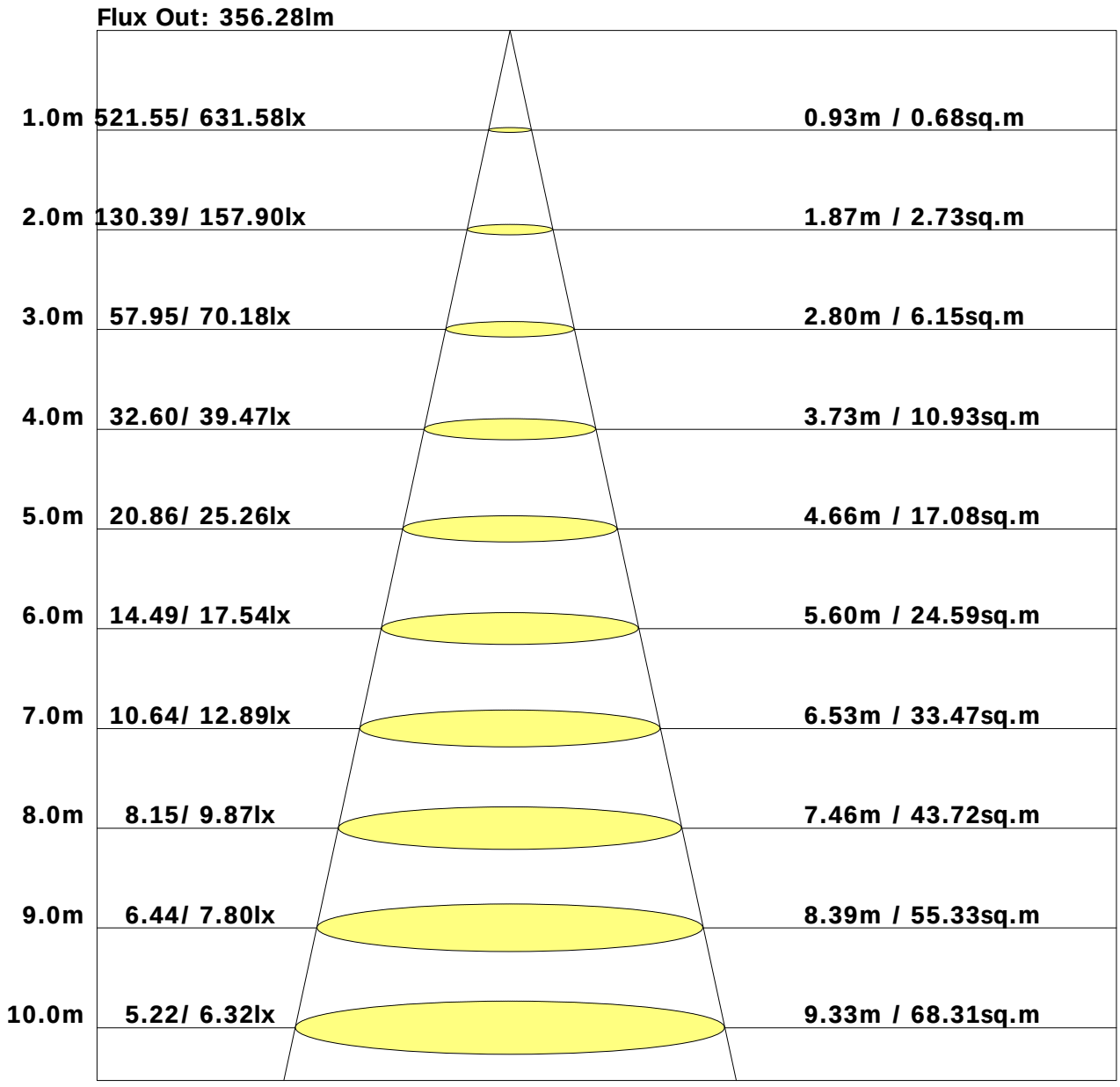
Inspector:

The Average Illuminance Effective Figure



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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	23.3	24.9	23.7	25.2	25.5	21.4	23.0	21.8	23.3	23.6
3H	23.7	25.1	24.1	25.4	25.8	22.6	24.0	23.0	24.3	24.7
4H	23.7	25.0	24.1	25.4	25.8	22.8	24.1	23.2	24.5	24.9
6H	23.7	24.9	24.1	25.2	25.7	22.9	24.1	23.3	24.5	24.9
8H	23.6	24.8	24.1	25.2	25.6	22.9	24.1	23.4	24.5	24.9
12H	23.6	24.7	24.0	25.1	25.6	22.9	24.0	23.3	24.4	24.9
X=4H Y=2H	23.6	24.9	24.0	25.3	25.7	21.8	23.1	22.2	23.5	23.9
3H	24.0	25.1	24.5	25.5	26.0	23.0	24.1	23.4	24.5	24.9
4H	24.1	25.0	24.5	25.5	25.9	23.3	24.3	23.7	24.7	25.1
6H	24.0	24.9	24.5	25.3	25.8	23.4	24.2	23.9	24.7	25.2
8H	24.0	24.8	24.5	25.3	25.7	23.4	24.2	23.9	24.6	25.1
12H	24.0	24.7	24.5	25.2	25.7	23.4	24.1	23.9	24.6	25.1
X=8H Y=4H	24.1	24.8	24.5	25.3	25.8	23.2	24.0	23.7	24.5	25.0
6H	24.0	24.7	24.5	25.2	25.7	23.3	24.0	23.9	24.5	25.0
8H	24.0	24.6	24.5	25.1	25.6	23.4	23.9	23.9	24.5	25.0
12H	24.0	24.5	24.5	25.0	25.6	23.4	23.9	23.9	24.4	25.0
X=12H Y=4H	24.0	24.7	24.5	25.2	25.7	23.2	23.9	23.7	24.4	24.9
6H	24.0	24.6	24.5	25.1	25.6	23.3	23.9	23.9	24.4	24.9
8H	24.0	24.5	24.5	25.0	25.6	23.3	23.8	23.9	24.4	24.9

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
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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	0.58	0.70	0.77	0.83	0.90	0.95	0.98	1.02	1.05
	0.30		0.51	0.62	0.70	0.76	0.84	0.90	0.93	0.98	1.02
	0.20		0.45	0.57	0.65	0.71	0.80	0.85	0.90	0.95	0.99
0.50	0.50	0.20	0.57	0.67	0.75	0.80	0.87	0.91	0.94	0.98	1.01
	0.30		0.50	0.61	0.69	0.74	0.82	0.87	0.90	0.95	0.98
	0.20		0.45	0.56	0.64	0.70	0.78	0.83	0.87	0.92	0.96
0.30	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.94	0.97
	0.30		0.49	0.60	0.67	0.73	0.80	0.84	0.88	0.92	0.94
	0.20		0.44	0.55	0.63	0.69	0.76	0.81	0.85	0.90	0.93
0.00	0.00	0.00	0.42	0.53	0.60	0.66	0.73	0.78	0.81	0.85	0.88

Rating:16W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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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(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	0.97	0.78	0.65	0.56	0.44	0.36	0.31	0.24	0.19
	0.30		0.81	0.67	0.57	0.50	0.40	0.33	0.29	0.22	0.18
	0.20		0.69	0.58	0.51	0.45	0.36	0.31	0.27	0.21	0.17
0.50	0.50	0.20	0.93	0.75	0.63	0.54	0.42	0.38	0.29	0.22	0.18
	0.30		0.79	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17
	0.20		0.68	0.57	0.50	0.44	0.35	0.30	0.26	0.20	0.17
0.30	0.50	0.20	0.90	0.72	0.60	0.51	0.40	0.33	0.28	0.21	0.17
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.16
	0.20		0.68	0.56	0.49	0.43	0.34	0.29	0.25	0.19	0.16
0.00	0.00	0.00	0.57	0.46	0.39	0.34	0.27	0.22	0.18	0.14	0.12

Rating:16W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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(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	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	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	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.19	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:16W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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: