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Report No.: **Test Time: 2018/1/8 11:34**

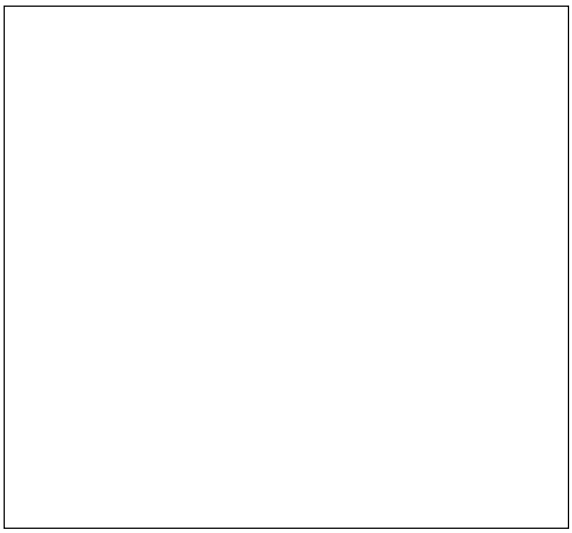
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: DMX RIBBONLYTE RGB (R)
Luminaire Description: DMX RIBBONLYTE RGB (R)
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

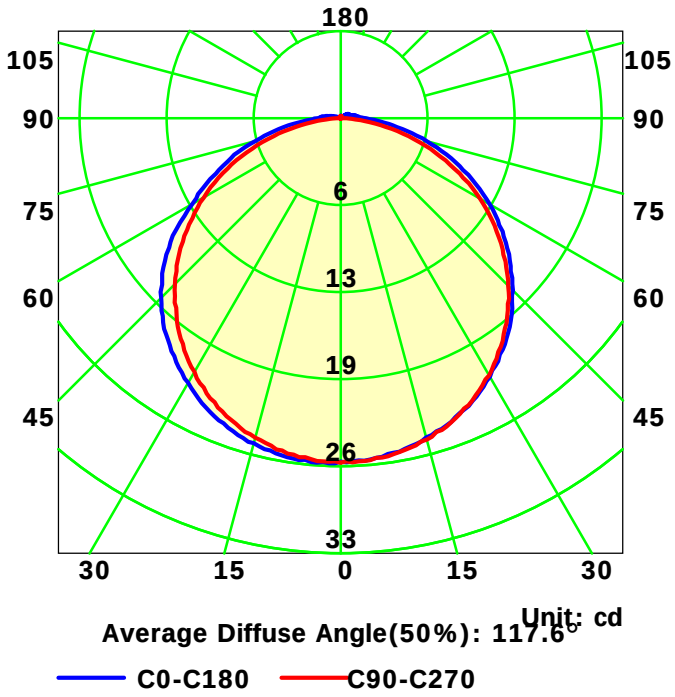
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 83.7 lm**
Measurement Flux: 83.7 lm **Efficiency: 100%**
Downward Ratio: 98% **Upward Ratio: 2%**
Horizontal Diffuse Angle(50%): H119.8
Vertical Diffuse Angle(50%): V115.3
Luminaire Efficacy Rating (LER): 15 **Central Intensity: 26.21 cd**
Max. Intensity: 26.35 cd **Pos of Max. Intensity: H180 V2**

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:**

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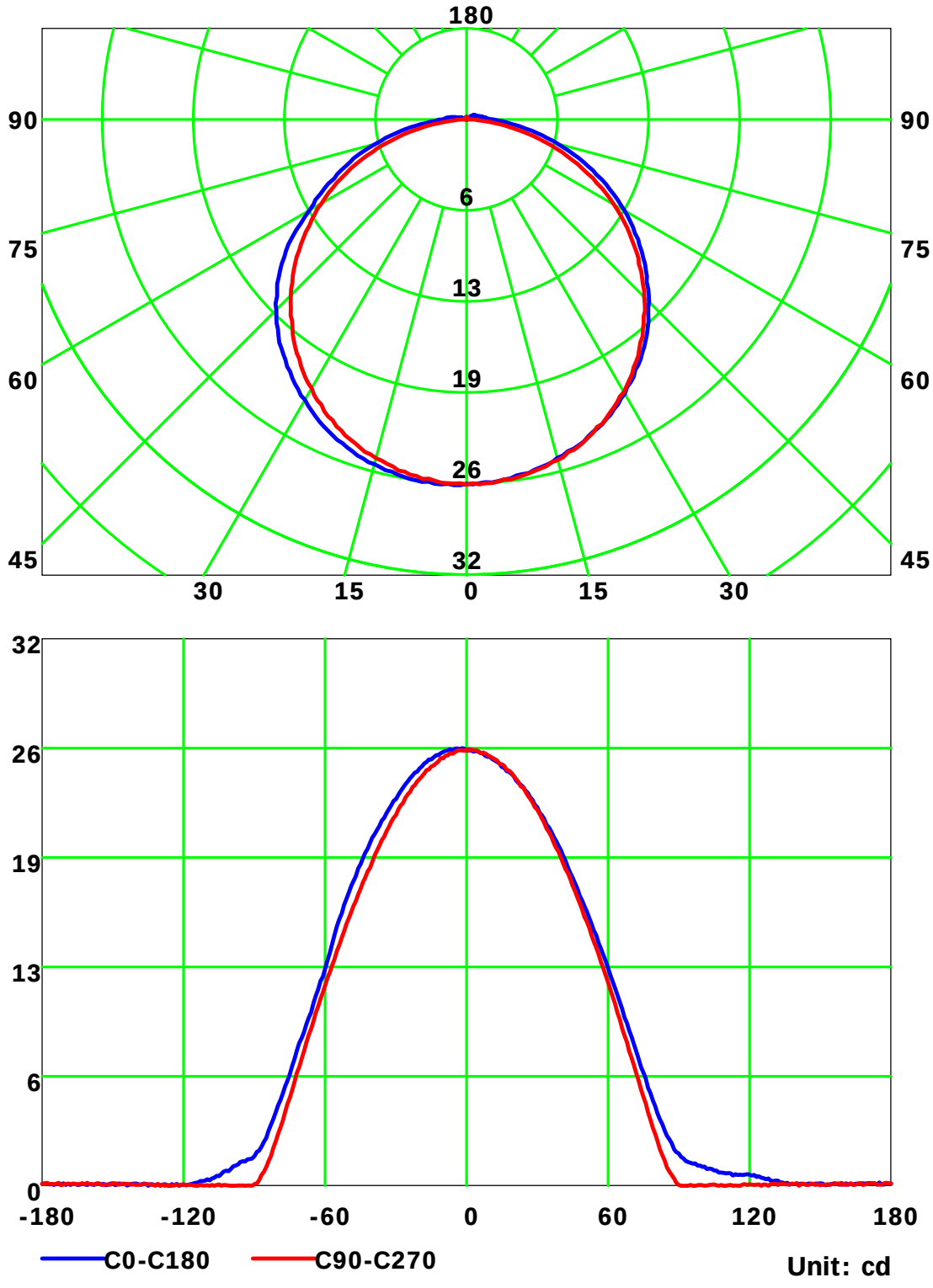
Luminous Intensity Distribution Curve



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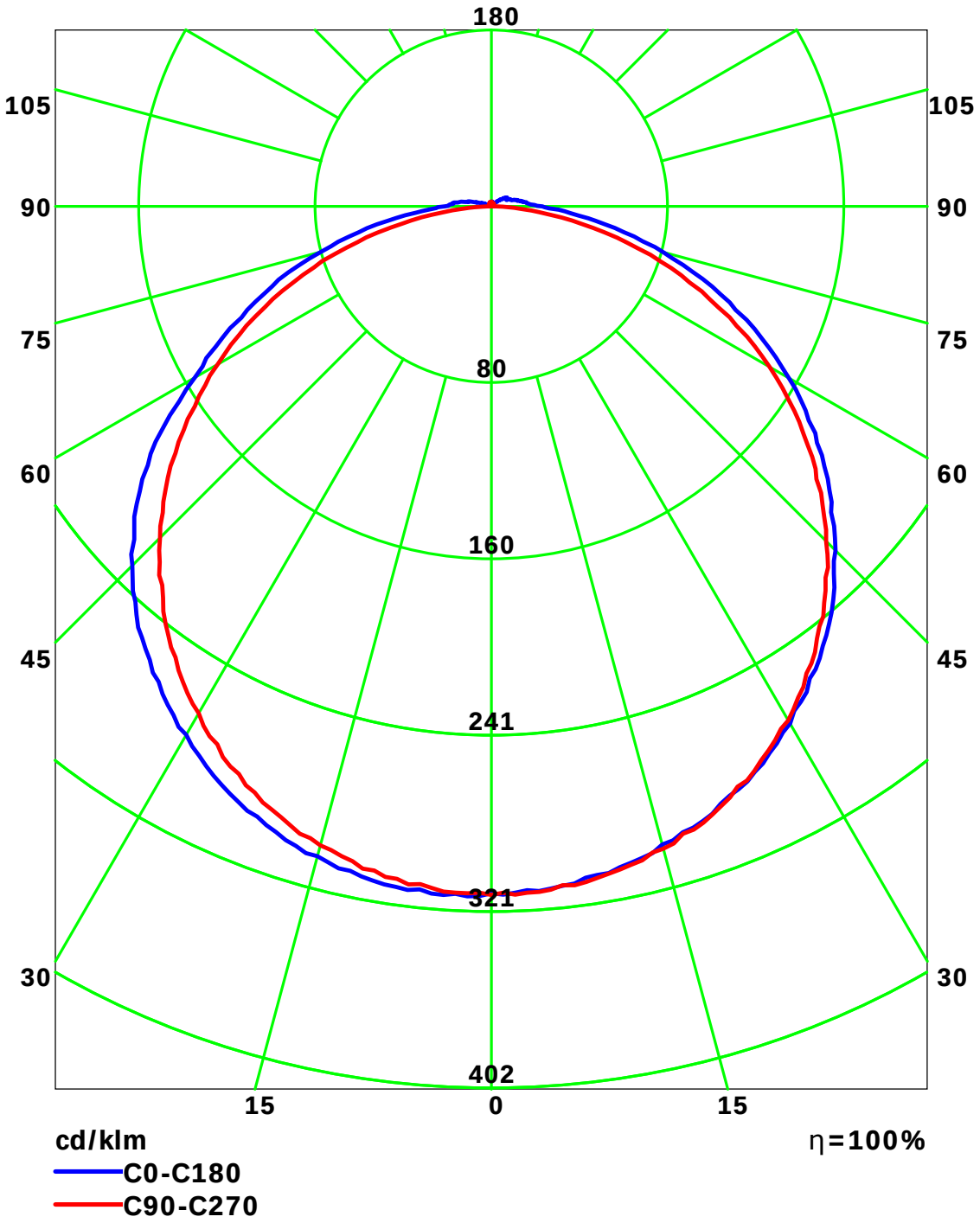
Luminous Intensity Distribution Curve(cd/klm)



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
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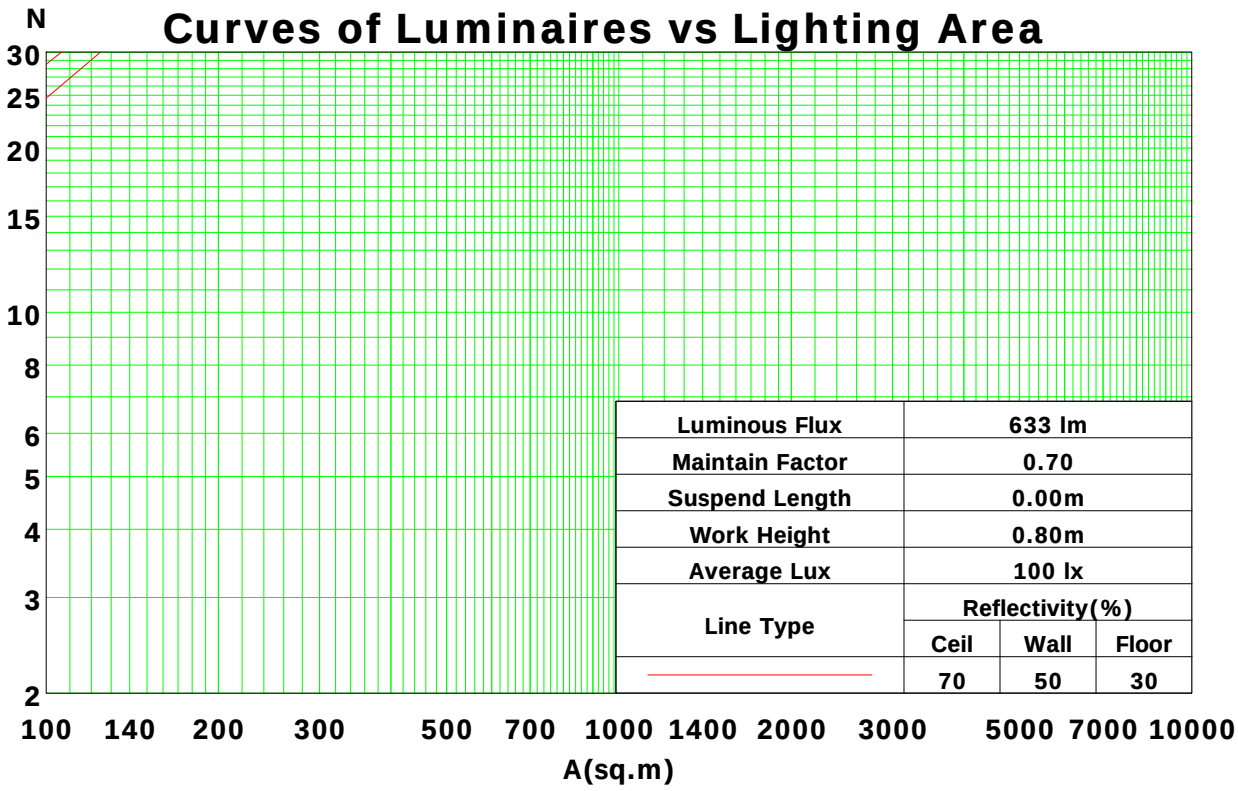
Coefficients Of Utilization - Zonal Cavity Method

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	110	110	110	105	105	105	100	100	100	98
1	107	102	98	93	104	100	95	92	95	92	88	91	88	85	87	84	82	80
2	97	88	81	75	94	86	80	74	82	77	72	79	74	70	75	72	68	66
3	88	77	69	62	86	76	68	61	72	65	60	69	63	59	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	47
5	74	61	52	45	72	60	51	44	57	49	44	55	48	43	53	47	42	40
6	68	55	45	39	66	54	45	39	51	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	37	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.31
Spacing Criteria (90-270): 1.27
Spacing Criteria (Diagonal): 1.42

Curves of Luminaires vs Lighting Area



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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
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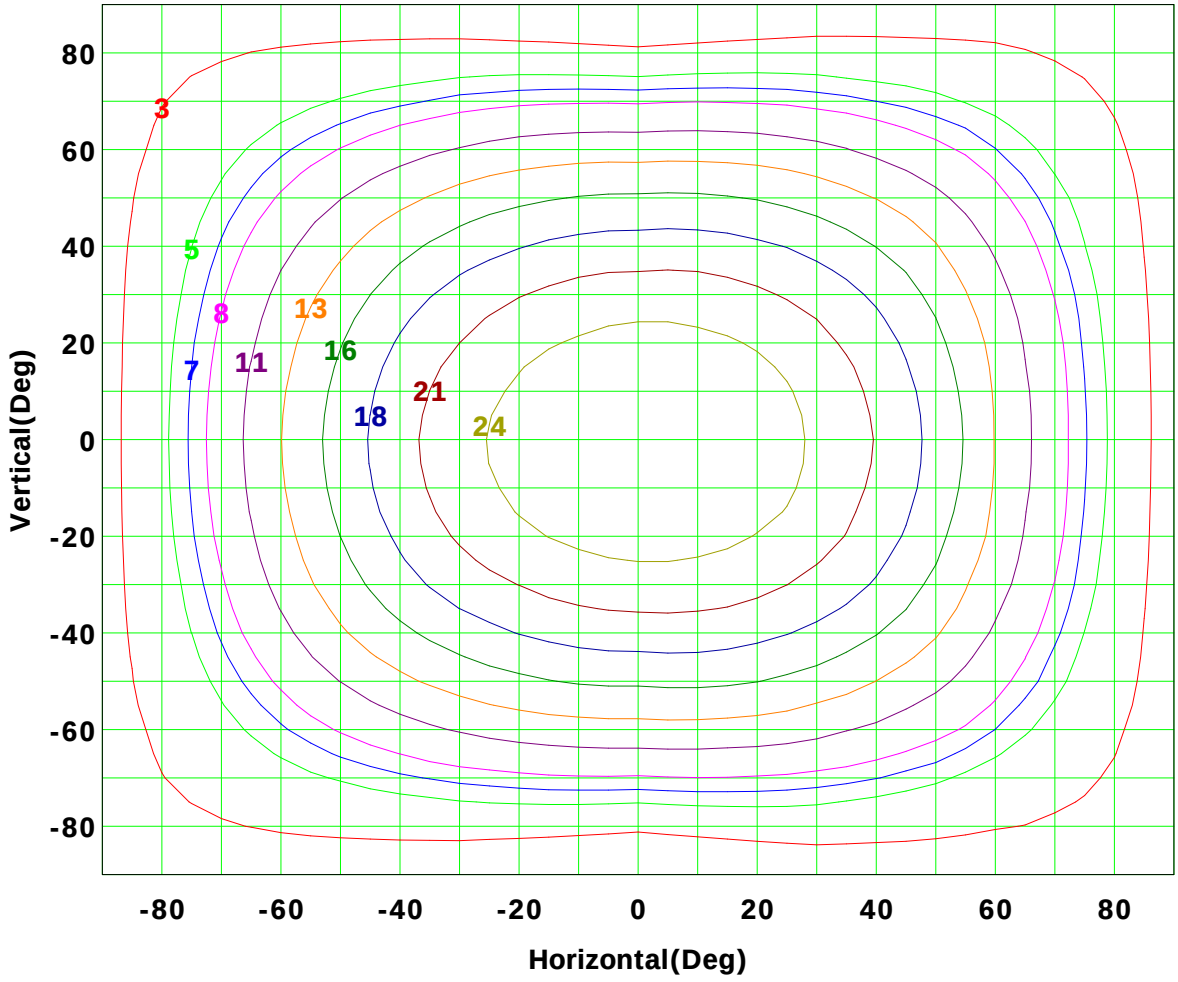
Isocandela (rectangle)



Imax (100%): 26 cd

(10%):	3 cd	(20%):	5 cd
(25%):	7 cd	(30%):	8 cd
(40%):	11 cd	(50%):	13 cd
(60%):	16 cd	(70%):	18 cd
(80%):	21 cd	(90%):	24 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
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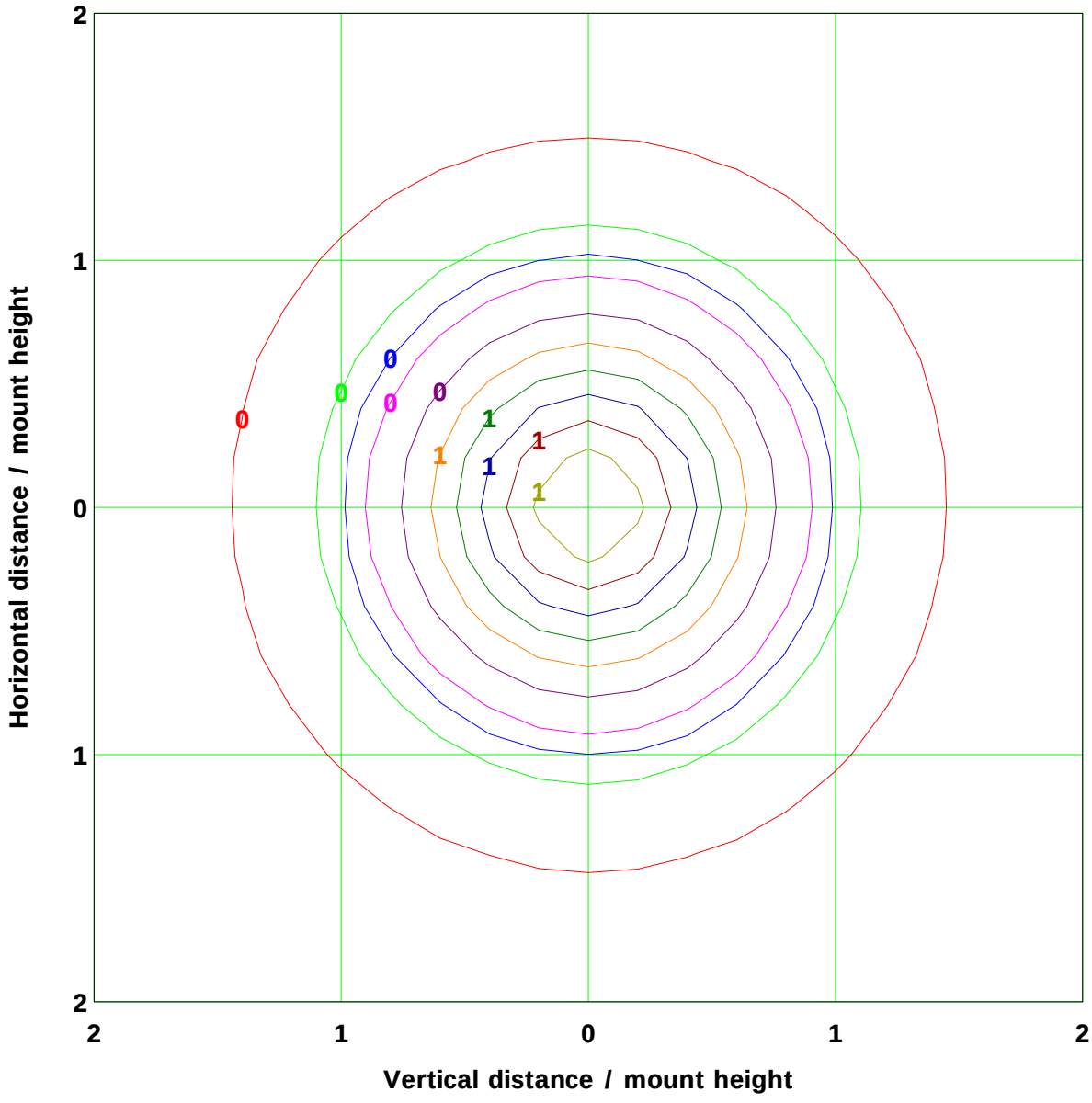
IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 1.1 lx

(10%): 0.1 lx	(20%): 0.2 lx
(25%): 0.3 lx	(30%): 0.3 lx
(40%): 0.4 lx	(50%): 0.5 lx
(60%): 0.6 lx	(70%): 0.7 lx
(80%): 0.8 lx	(90%): 0.9 lx

C Plane (°):0.0-360.0: 30.0
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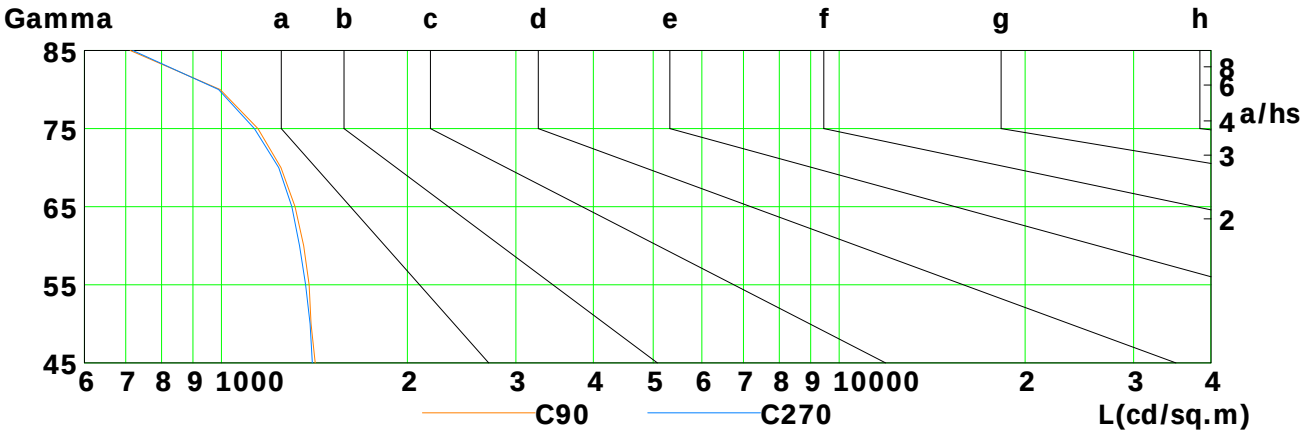
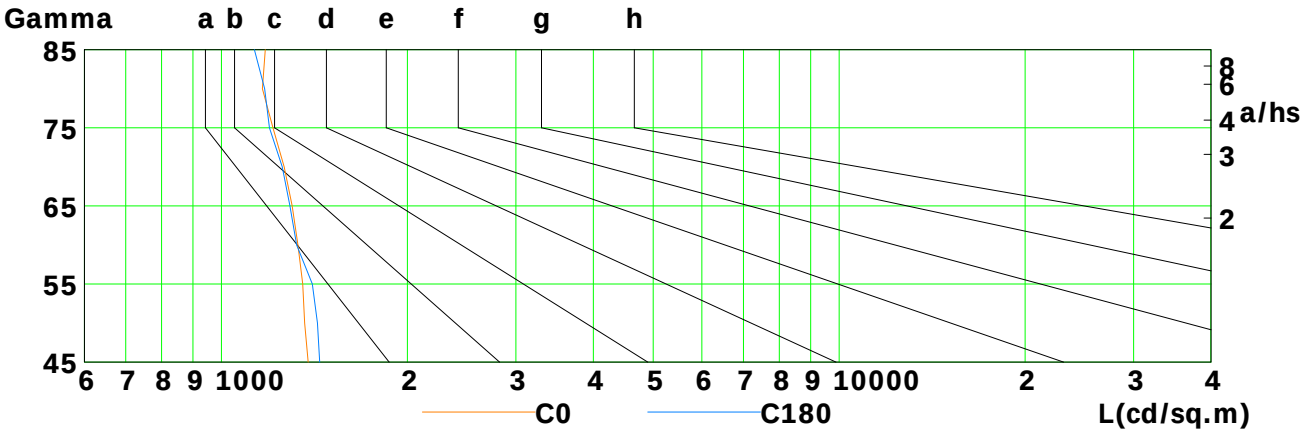
Lum Limit Curve

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	1382	1365	1354	1330	1303	1264	1213	1165	1177
C90	1418	1398	1387	1360	1317	1249	1146	996	712
C180	1442	1432	1404	1325	1292	1254	1197	1175	1131
C270	1404	1392	1369	1338	1301	1239	1131	989	718

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
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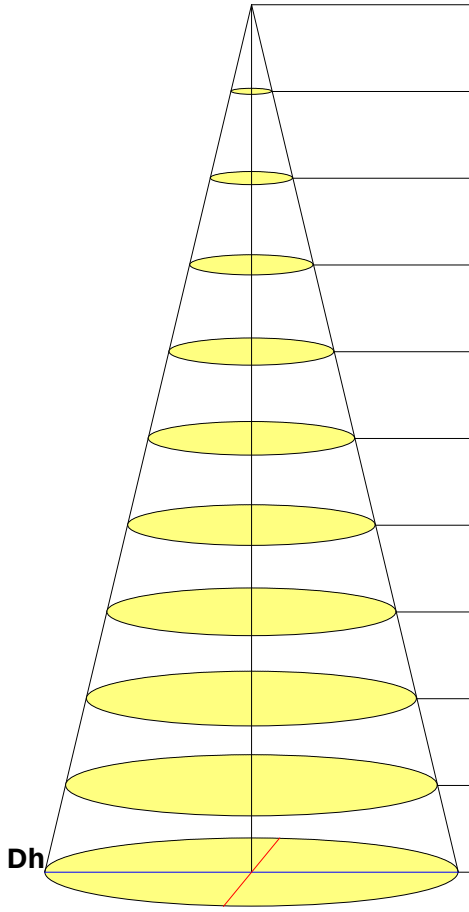
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	26.21	3.45/3.16	9.0	3.70
2.0	6.55	6.90/6.32	36.0	0.92
3.0	2.91	10.35/9.48	81.0	0.41
4.0	1.64	13.80/12.64	143.9	0.23
5.0	1.05	17.25/15.79	224.9	0.15
6.0	0.73	20.69/18.95	323.8	0.10
7.0	0.53	24.14/22.11	440.7	0.08
8.0	0.41	27.59/25.27	575.7	0.06
9.0	0.32	31.04/28.43	728.6	0.05
10.0	0.26	34.49/31.59	899.5	0.04

Beam Angle(B): H119.8 V115.3 Field Angle(F): H172.8 V162.3

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%
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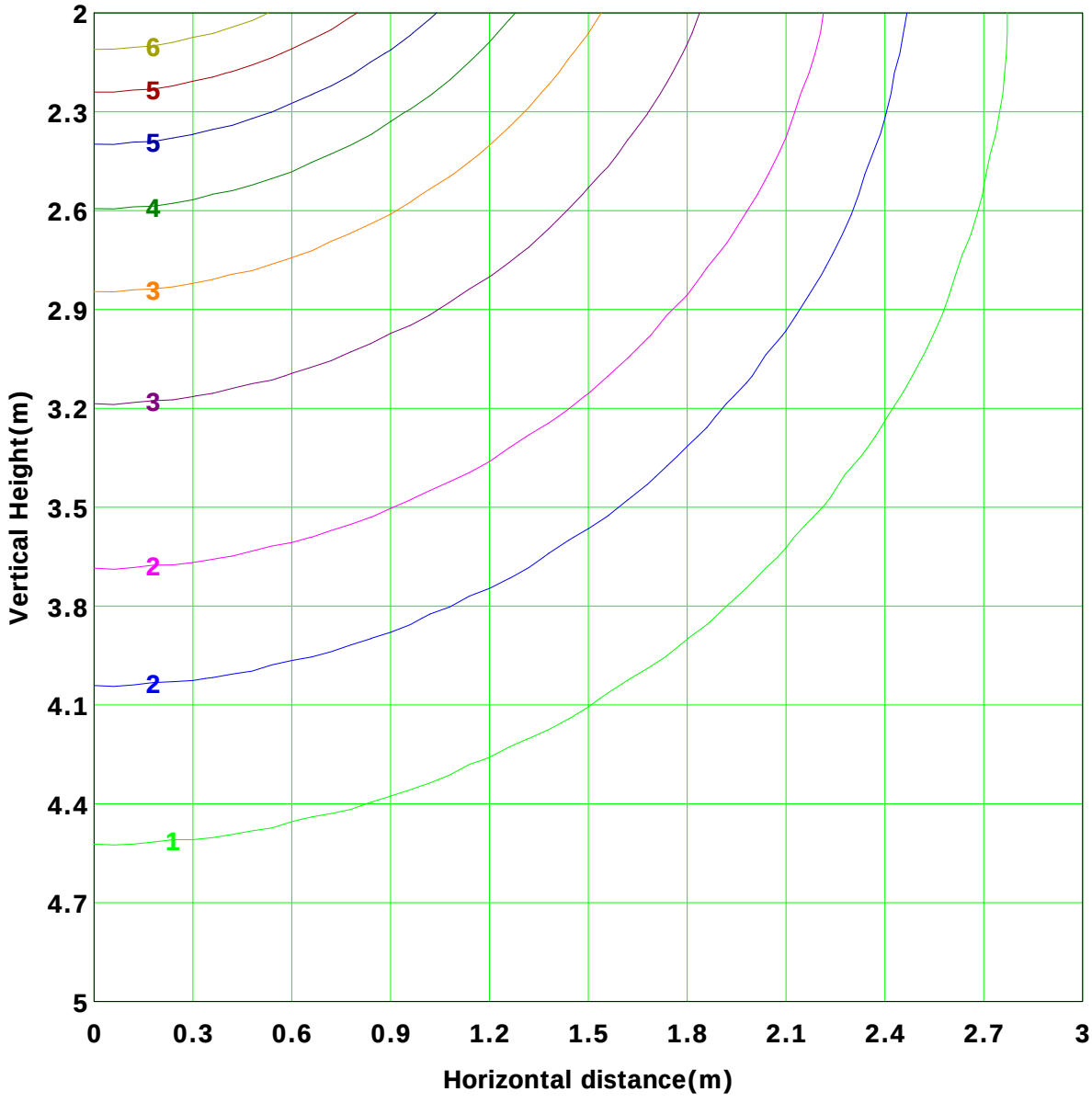
Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 6.6 lx

(10%): 0.7 lx	(20%): 1.3 lx
(25%): 1.6 lx	(30%): 2.0 lx
(40%): 2.6 lx	(50%): 3.3 lx
(60%): 3.9 lx	(70%): 4.6 lx
(80%): 5.2 lx	(90%): 5.9 lx

C Plane (°):0.0-360.0: 30.0
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Area Flux Table

Unit: lm

Vertical plane \ Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.2
-80	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.7	1.7
-70	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	2.9	2.9
-60	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.0	4.0
-50	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	5.0	5.0
-40	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	5.8	5.8
-30	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	0.0	0.0	6.5	6.5
-20	0.0	0.1	0.1	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.1	0.1	0.0	7.0	7.0
-10	0.0	0.1	0.1	0.3	0.4	0.5	0.7	0.7	0.8	0.8	0.7	0.7	0.5	0.4	0.3	0.1	0.1	0.0	7.2	7.2
0	0.0	0.1	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.5	0.4	0.3	0.1	0.1	0.0	7.2	7.2
10	0.0	0.1	0.1	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.1	0.1	0.0	7.0	7.0
20	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	0.1	0.0	6.6	6.6
30	0.0	0.0	0.1	0.2	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	5.9	5.9
40	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	5.1	5.0
50	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.0	4.0
60	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	2.9	2.9
70	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.7	1.7
80	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.2
Flux(T)	0.1	0.7	1.7	3.1	4.7	6.3	7.6	8.4	8.8	8.8	8.3	7.3	6.0	4.5	3.0	1.7	0.7	0.1	82	
Flux(E)	0.1	0.6	1.6	3.1	4.7	6.2	7.5	8.4	8.8	8.7	8.2	7.3	6.0	4.5	3.0	1.6	0.6	0.1		81

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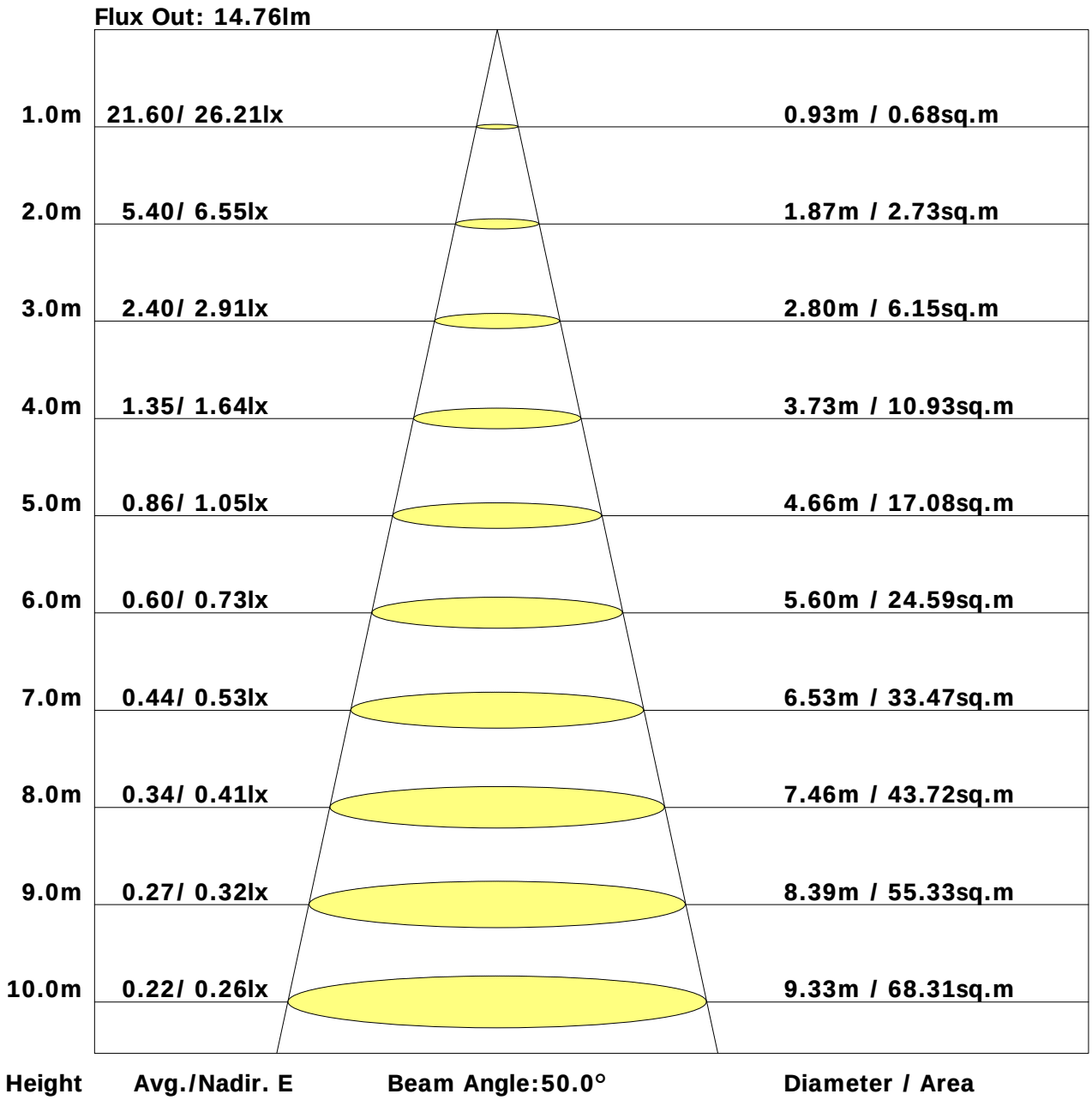
The Average Illuminance Effective Figure



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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	21.9	23.5	22.3	23.9	24.2	21.5	23.2	21.9	23.5	23.9
3H	24.0	25.4	24.4	25.8	26.2	23.3	24.8	23.7	25.2	25.6
4H	24.8	26.2	25.2	26.6	27.0	24.0	25.4	24.4	25.8	26.2
6H	25.6	26.9	26.0	27.3	27.7	24.4	25.7	24.8	26.1	26.5
8H	25.9	27.1	26.4	27.6	28.0	24.5	25.8	25.0	26.2	26.6
12H	26.2	27.4	26.7	27.8	28.3	24.6	25.8	25.0	26.2	26.7
X=4H Y=2H	22.5	23.9	22.9	24.3	24.7	22.3	23.7	22.7	24.1	24.5
3H	24.8	26.0	25.2	26.4	26.9	24.3	25.5	24.7	25.9	26.4
4H	25.8	26.9	26.3	27.3	27.8	25.1	26.2	25.5	26.6	27.1
6H	26.7	27.7	27.2	28.1	28.6	25.7	26.6	26.1	27.1	27.6
8H	27.1	28.0	27.6	28.5	29.0	25.8	26.7	26.3	27.2	27.7
12H	27.5	28.3	28.0	28.8	29.4	25.9	26.7	26.4	27.2	27.7
X=8H Y=4H	26.1	27.0	26.6	27.5	28.0	25.5	26.4	26.0	26.9	27.4
6H	27.2	27.9	27.7	28.5	29.0	26.2	27.0	26.8	27.5	28.0
8H	27.7	28.4	28.2	28.9	29.4	26.5	27.2	27.1	27.7	28.3
12H	28.2	28.8	28.8	29.4	30.0	26.7	27.3	27.2	27.8	28.4
X=12H Y=4H	26.2	27.0	26.7	27.5	28.0	25.6	26.4	26.1	26.9	27.4
6H	27.3	27.9	27.8	28.4	29.0	26.4	27.1	26.9	27.6	28.1
8H	27.8	28.4	28.4	29.0	29.6	26.7	27.3	27.3	27.8	28.4

Calculate in accordance with CIE 190:2010

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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	0.78	0.86	0.91	0.94	0.99	1.02
	0.30		0.50	0.58	0.66	0.71	0.79	0.85	0.89	0.94	0.98
	0.20		0.44	0.52	0.60	0.66	0.74	0.80	0.84	0.90	0.95
0.50	0.50	0.20	0.55	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.97
	0.30		0.49	0.56	0.64	0.69	0.77	0.82	0.86	0.91	0.94
	0.20		0.44	0.51	0.59	0.64	0.72	0.78	0.82	0.87	0.91
0.30	0.50	0.20	0.54	0.61	0.68	0.72	0.79	0.83	0.86	0.90	0.93
	0.30		0.48	0.55	0.62	0.67	0.74	0.79	0.83	0.87	0.90
	0.20		0.43	0.50	0.58	0.63	0.70	0.76	0.79	0.85	0.88
0.00	0.00	0.00	0.41	0.48	0.55	0.60	0.67	0.71	0.75	0.80	0.83

Rating:6W 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:

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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	0.83	0.71	0.62	0.50	0.42	0.36	0.28	0.23
	0.30		0.81	0.71	0.62	0.55	0.45	0.38	0.33	0.27	0.22
	0.20		0.70	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21
0.50	0.50	0.20	0.94	0.80	0.68	0.59	0.48	0.43	0.34	0.27	0.22
	0.30		0.79	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21
	0.20		0.69	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.30	0.50	0.20	0.91	0.76	0.65	0.57	0.45	0.38	0.33	0.25	0.21
	0.30		0.77	0.67	0.58	0.51	0.42	0.35	0.31	0.24	0.20
	0.20		0.68	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.57	0.50	0.43	0.38	0.31	0.27	0.23	0.18	0.15

Rating:6W 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:

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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	0.18	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24
	0.30		0.11	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	0.16	0.17	0.19
0.50	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.13	0.14	0.15	0.16	0.18	0.18	0.20	0.20
	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	0.17	0.18	0.19	0.20	0.20	0.21	0.21	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	0.16	0.17
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Rating:6W 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: