

Report No.:

Test Time: 2017/11/9 13:41

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RB244.4RGB30 (W)

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.154 A

Power Factor: 1.000

Luminaire Description: RB244.4RGB30 (W)

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 3.69 W

Photometric Results

CIE Class: Direct

Measurement Flux: 266.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H115.4

Vertical Diffuse Angle(50%): V115.8

Luminaire Efficacy Rating (LER): 72

Max. Intensity: 89.84 cd

Total Rated Lamp Lumens: 266.5 lm

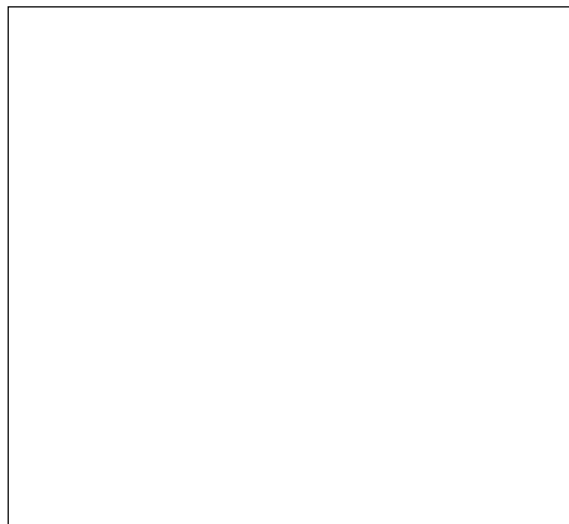
Efficiency: 100%

Upward Ratio: 0%

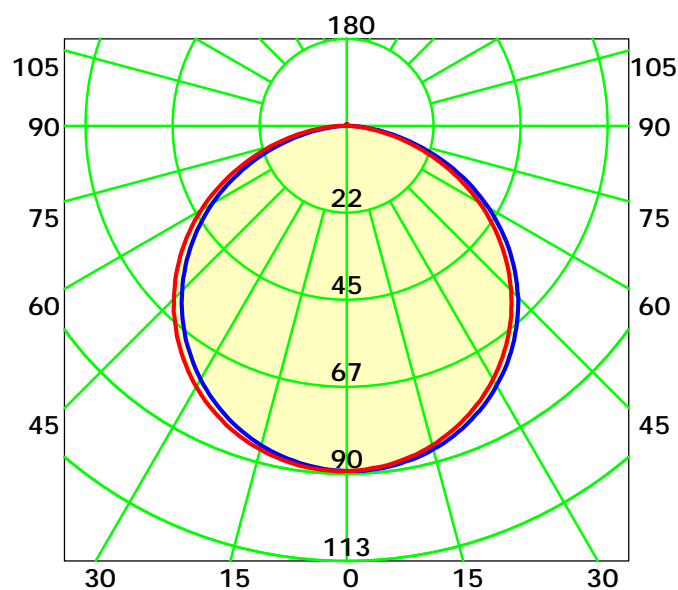
Central Intensity: 89.77 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 115.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

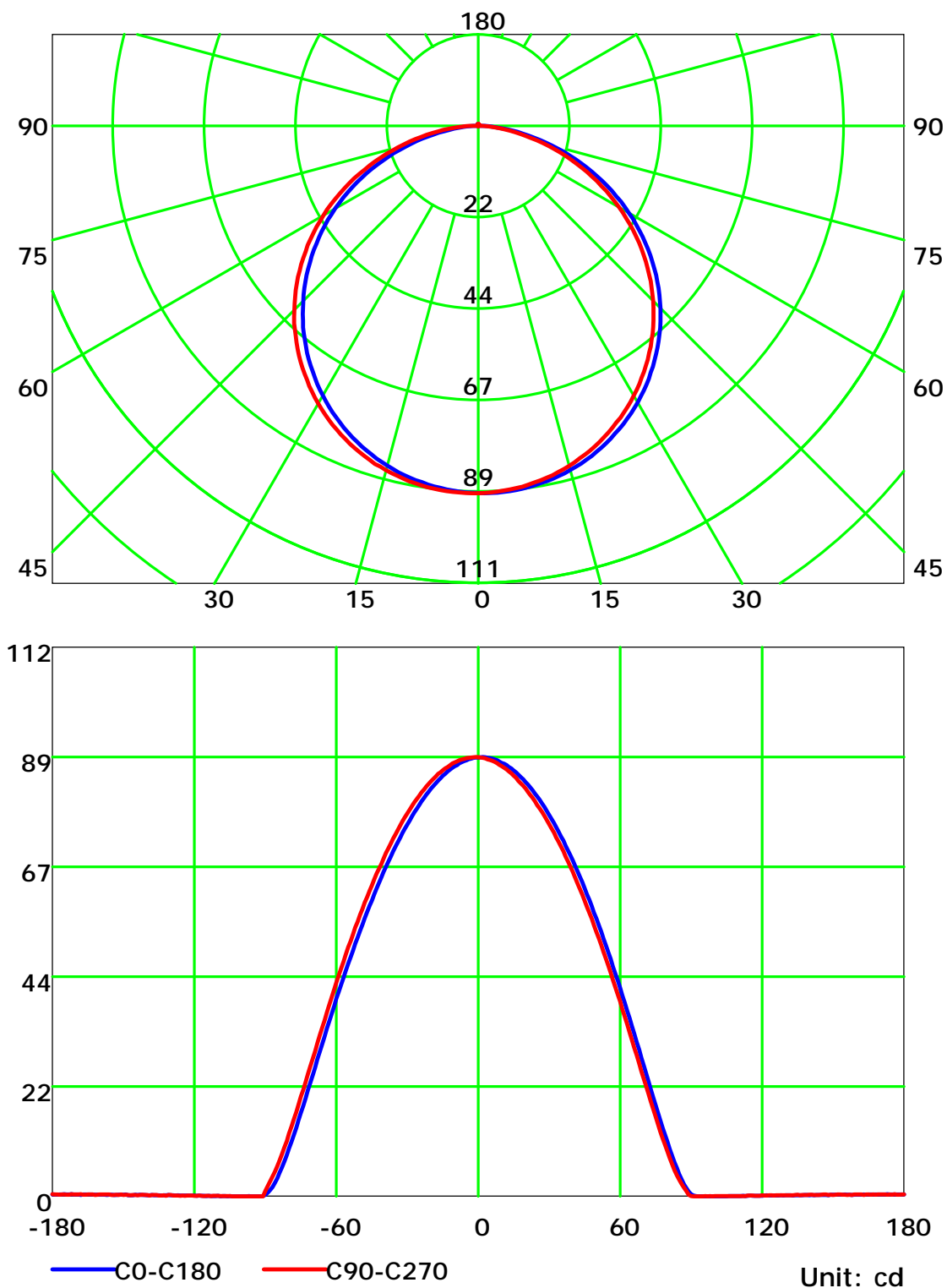
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

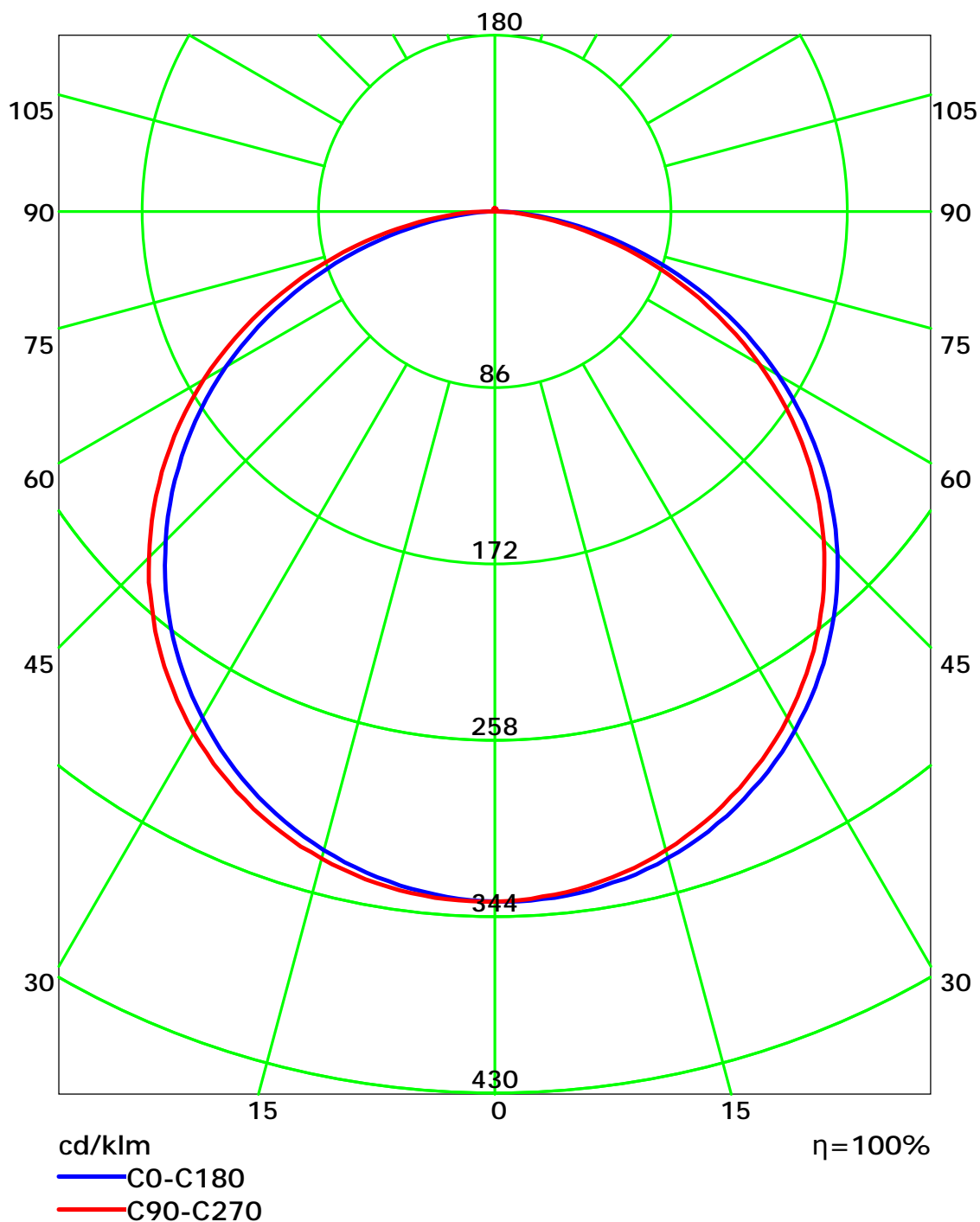
Luminous Intensity Distribution Curve



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

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

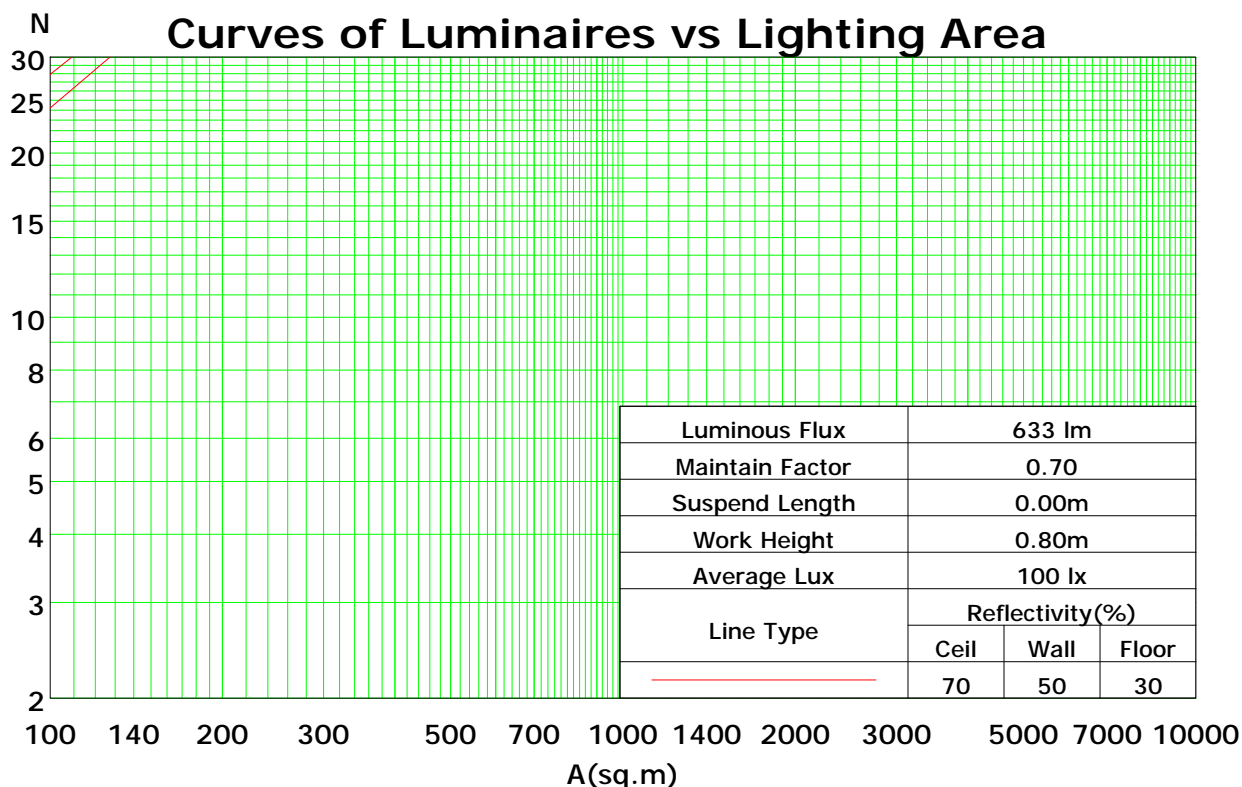
Coefficients Of Utilization - Zonal Cavity Method

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	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	36	30	25	23

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.40



C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

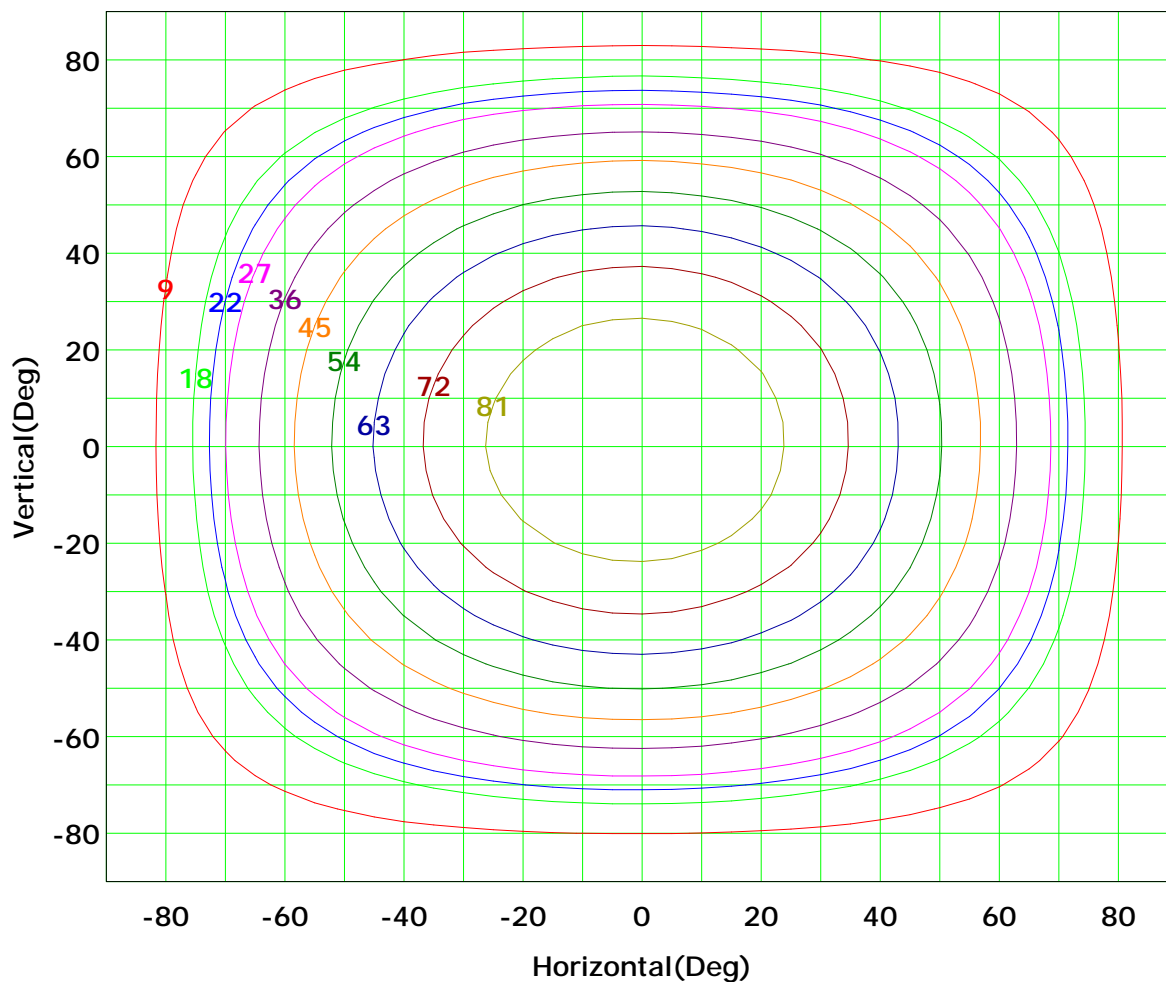
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 90 cd

(10%):	9 cd	(20%):	18 cd
(25%):	22 cd	(30%):	27 cd
(40%):	36 cd	(50%):	45 cd
(60%):	54 cd	(70%):	63 cd
(80%):	72 cd	(90%):	81 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

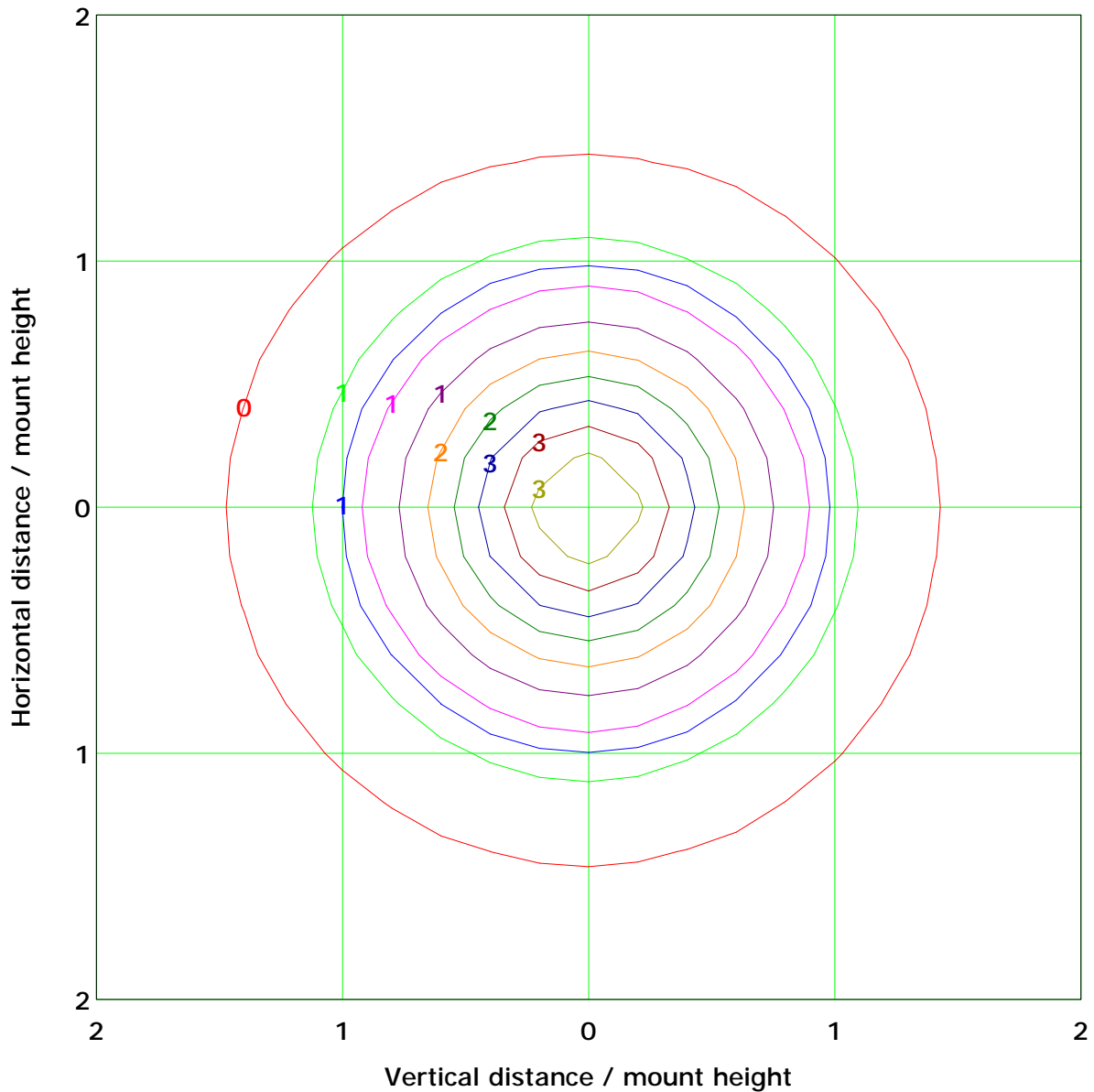
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.6 lx

(10%): 0.4 lx	(20%): 0.7 lx
(25%): 0.9 lx	(30%): 1.1 lx
(40%): 1.4 lx	(50%): 1.8 lx
(60%): 2.2 lx	(70%): 2.5 lx
(80%): 2.9 lx	(90%): 3.2 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25°C

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

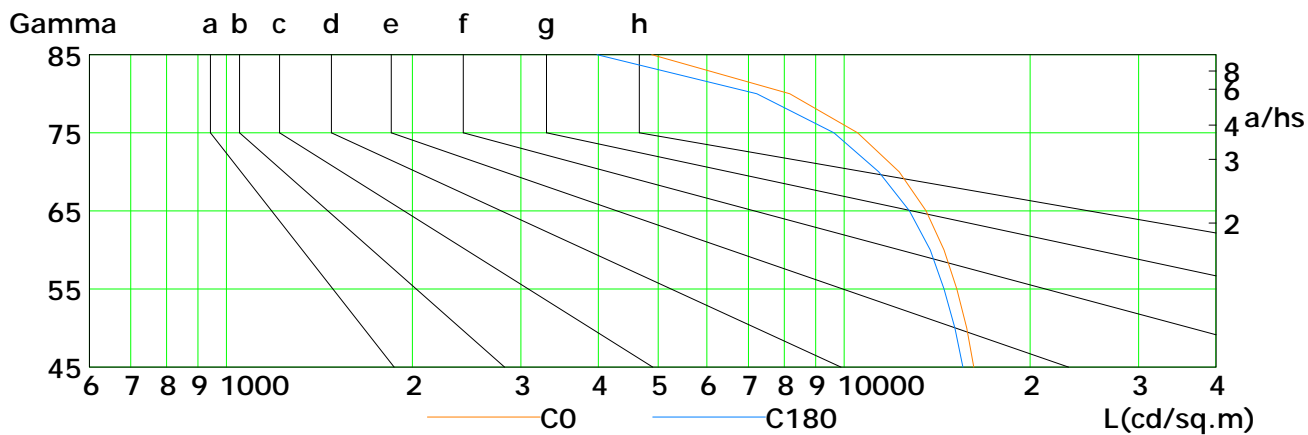
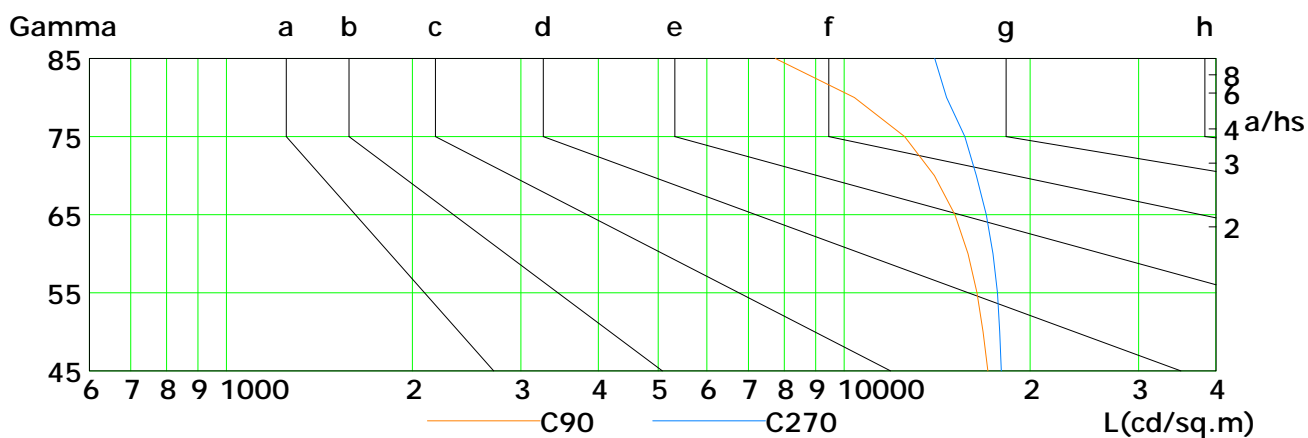
Humidity: 60%

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	16227	15799	15234	14524	13584	12289	10517	8173	4883
C90	17089	16793	16415	15881	15112	14010	12541	10398	7740
C180	15574	15116	14523	13788	12770	11386	9634	7225	3983
C270	17973	17876	17715	17428	16992	16377	15693	14657	14022

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

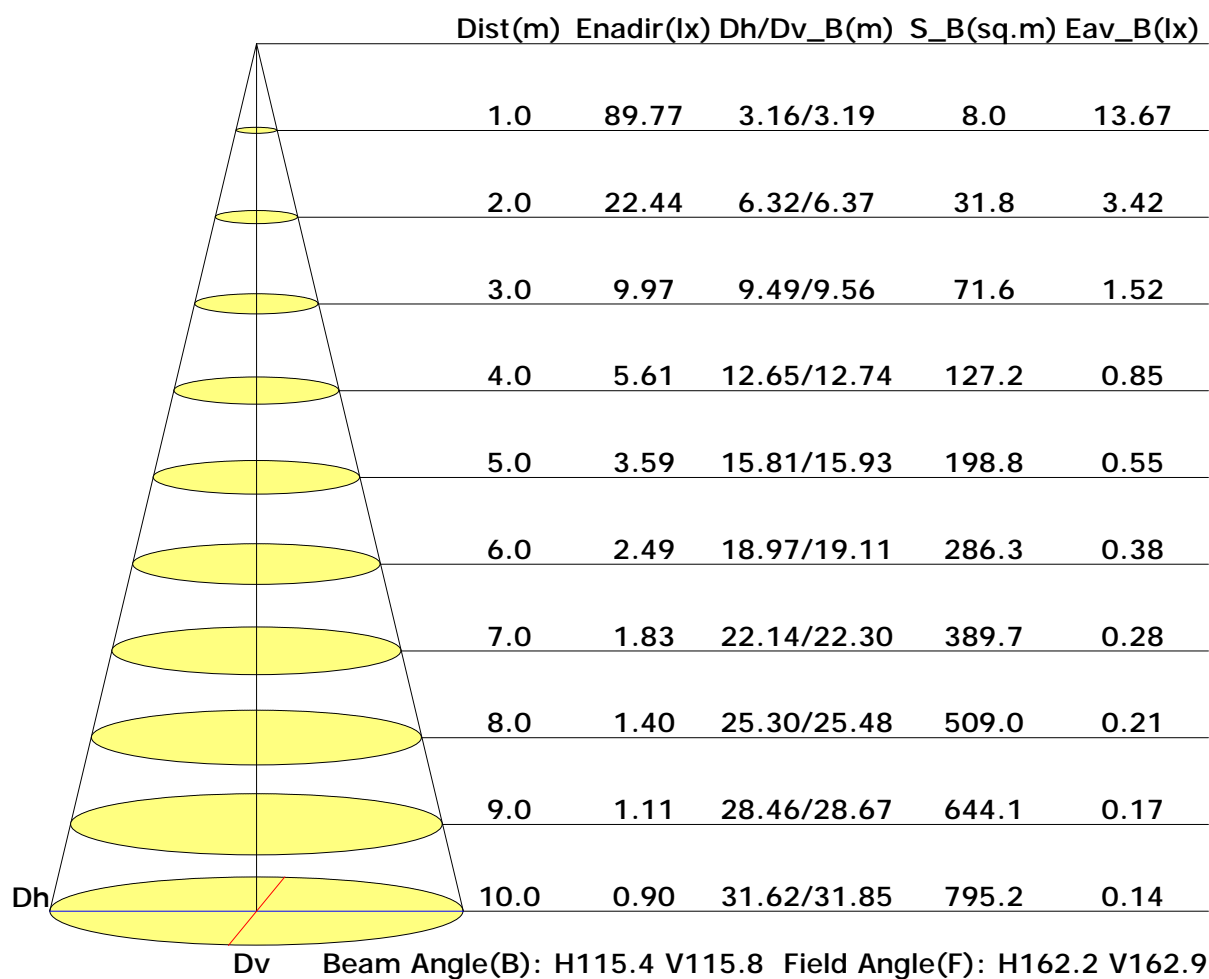
Test Device: GPM-1800B

Distance: 9.028 m

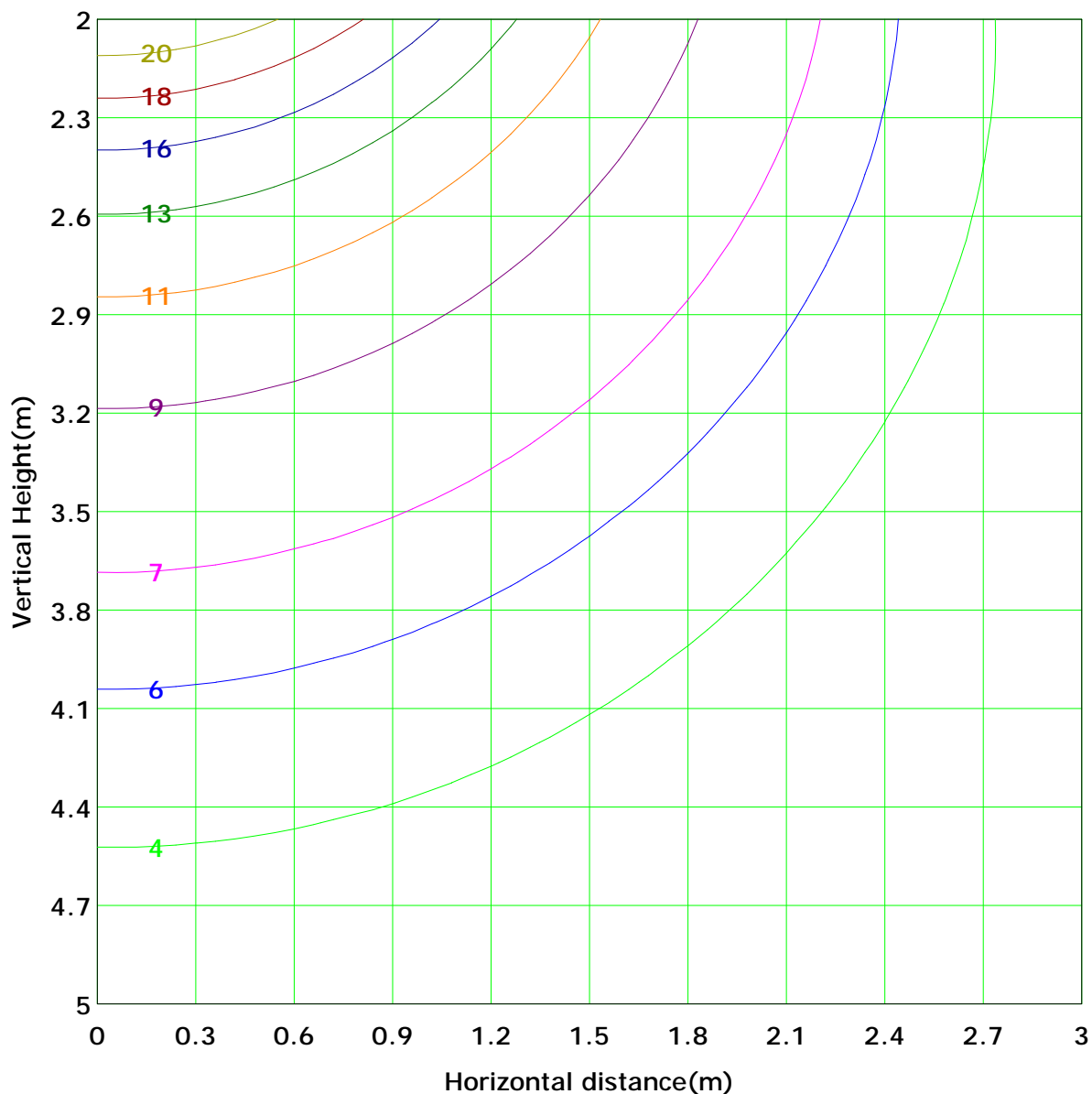
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 22.4 lx
(10%): 2.2 lx	(20%): 4.5 lx	
(25%): 5.6 lx	(30%): 6.7 lx	
(40%): 9.0 lx	(50%): 11.2 lx	
(60%): 13.5 lx	(70%): 15.7 lx	
(80%): 18.0 lx	(90%): 20.2 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25°C
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		-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	0.2	0.0
	-80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.5	1.5	1.2
	-70	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	4.5	4.5	4.3
	-60	0.0	0.2	0.4	0.7	1.0	1.2	1.4	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	9.0	9.0	8.8
	-50	0.0	0.3	0.5	0.9	1.2	1.6	1.8	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	14.2	14.2	14.0
	-40	0.0	0.4	0.7	1.1	1.5	1.8	2.1	2.2	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	19.6	19.6	19.4
	-30	0.0	0.4	0.8	1.2	1.6	2.0	2.3	2.5	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	24.4	24.4	24.2
	-20	0.0	0.4	0.8	1.3	1.7	2.1	2.5	2.6	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	28.0	28.0	27.8
	-10	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	30.0	30.0	29.8
	0	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	30.1	30.1	29.8
	10	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	28.3	28.3	28.0
	20	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	24.8	24.8	24.6
	30	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	20.1	20.1	19.9
	40	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	14.7	14.7	14.5
	50	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	9.4	9.4	9.2
	60	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	4.8	4.8	4.6
	70	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.6	1.6	1.4
	80	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	0.2	0.2	0.0
	90	0.0	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	265	265	261
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	4.2	4.2	3.7
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	1.0	1.0	0.0
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	12.4	12.4	12.3
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	8.3	8.3	8.2
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	16.0	16.0	16.0
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	21.5	21.5	21.4
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	23.1	23.1	23.1
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	24.0	24.0	24.0
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	24.1	24.1	24.0
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	23.4	23.4	23.4
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	19.7	19.7	19.7
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	16.9	16.9	16.8
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	13.4	13.4	13.3
	Flux(T)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	9.4	9.4	9.3
	Flux(E)	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	1.7	1.7	0.5

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

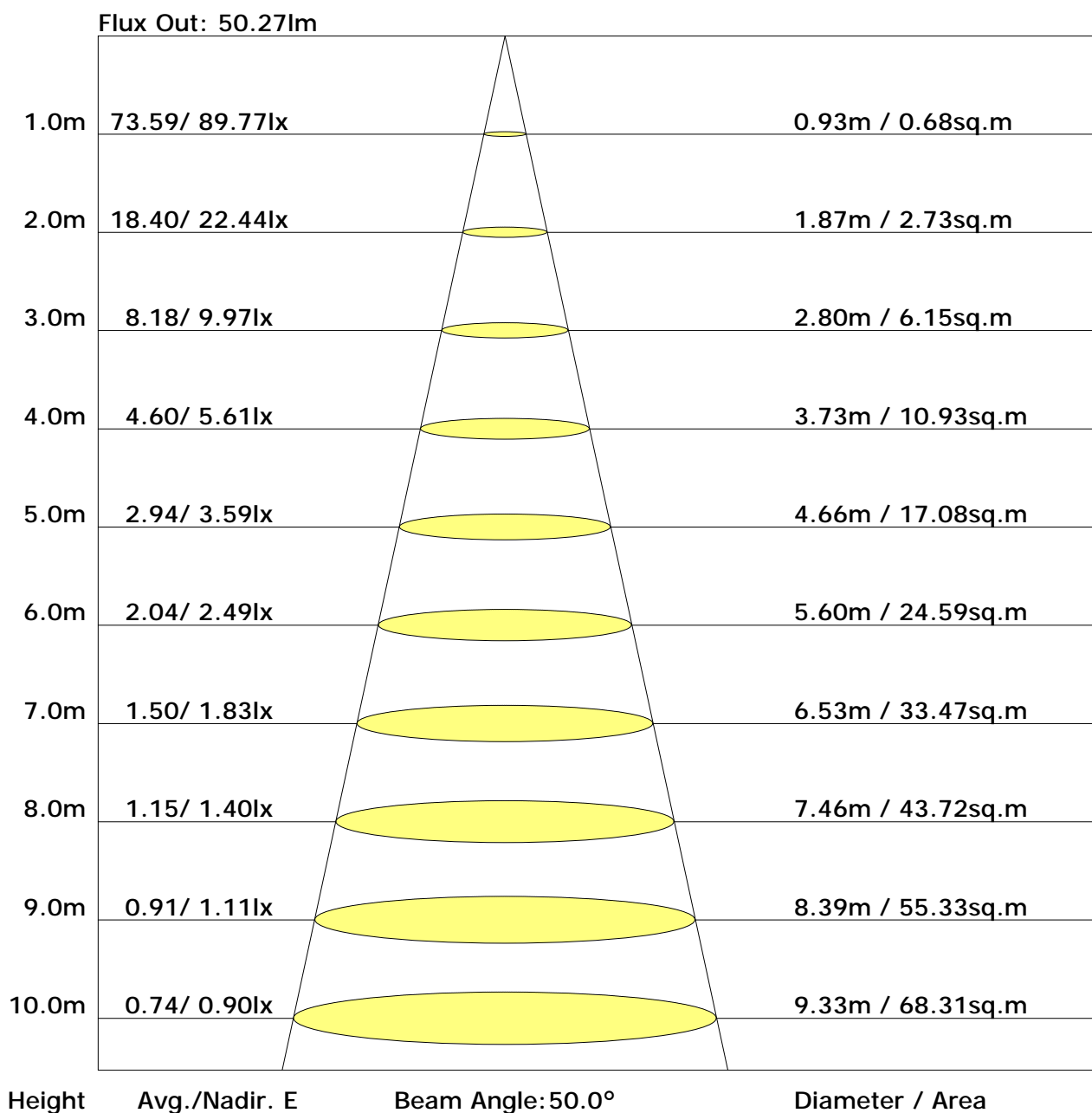
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

The Average Illuminance Effective Figure



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	26.6	28.2	27.0	28.5	28.9	25.9	27.5	26.3	27.9	28.2
3H	28.4	29.9	28.8	30.3	30.6	27.5	29.0	27.9	29.3	29.7
4H	29.1	30.5	29.5	30.9	31.3	28.1	29.5	28.5	29.8	30.2
6H	29.6	30.9	30.0	31.3	31.7	28.4	29.7	28.8	30.1	30.5
8H	29.8	31.0	30.2	31.4	31.8	28.5	29.7	28.9	30.1	30.5
12H	29.8	31.0	30.3	31.4	31.9	28.5	29.7	28.9	30.1	30.5
X=4H Y=2H	27.2	28.6	27.6	28.9	29.3	26.5	27.9	26.9	28.3	28.7
3H	29.2	30.4	29.6	30.8	31.2	28.3	29.5	28.8	29.9	30.3
4H	30.0	31.1	30.4	31.5	31.9	29.0	30.1	29.4	30.5	30.9
6H	30.6	31.5	31.1	32.0	32.5	29.4	30.4	29.9	30.8	31.3
8H	30.8	31.7	31.3	32.1	32.6	29.5	30.4	30.0	30.9	31.3
12H	30.9	31.7	31.4	32.2	32.7	29.6	30.4	30.1	30.9	31.3
X=8H Y=4H	30.3	31.1	30.7	31.6	32.1	29.3	30.2	29.8	30.6	31.1
6H	30.9	31.7	31.5	32.2	32.7	29.8	30.5	30.3	31.0	31.5
8H	31.2	31.9	31.7	32.4	32.9	29.9	30.6	30.5	31.1	31.6
12H	31.4	32.0	31.9	32.5	33.1	30.0	30.6	30.5	31.1	31.7
X=12H Y=4H	30.3	31.1	30.8	31.5	32.0	29.3	30.1	29.8	30.6	31.1
6H	31.0	31.7	31.5	32.1	32.7	29.8	30.5	30.4	31.0	31.5
8H	31.3	31.9	31.8	32.4	32.9	30.0	30.6	30.5	31.1	31.7

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab: acolyteled
Test Type: TYPE C
Temperature: 25°C
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 = 1.25								
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	0.56	0.66	0.74	0.79	0.86	0.92	0.95	1.00	1.03
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.52	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.87	0.90
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85
<p>Rating: 4W 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 = 1.25								
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	1.01	0.84	0.71	0.62	0.50	0.41	0.35	0.27	0.22
	0.30		0.85	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.73	0.63	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.98	0.81	0.68	0.60	0.48	0.43	0.34	0.26	0.21
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.30	0.23	0.20
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.38	0.32	0.25	0.20
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15
<p>Rating: 4W 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 = 1.25								
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	0.20	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<p>Rating: 4W 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>											