

Report No.:

Test Time: 2018/5/2 16:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RB65241.535PH

Luminous Length (mm): 500

Luminous Height (mm): 2

Current: 0.047 A

Power Factor: 0.374

Luminaire Description: RB65241.535PH

Luminous Width (mm): 8

Voltage: 219.6 V

Power: 3.84 W

Photometric Results

CIE Class: Direct

Measurement Flux: 224.5 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H121.6

Vertical Diffuse Angle(50%): V115

Luminaire Efficacy Rating (LER): 58

Max. Intensity: 70.69 cd

Total Rated Lamp Lumens: 224.5 lm

Efficiency: 100%

Upward Ratio: 2%

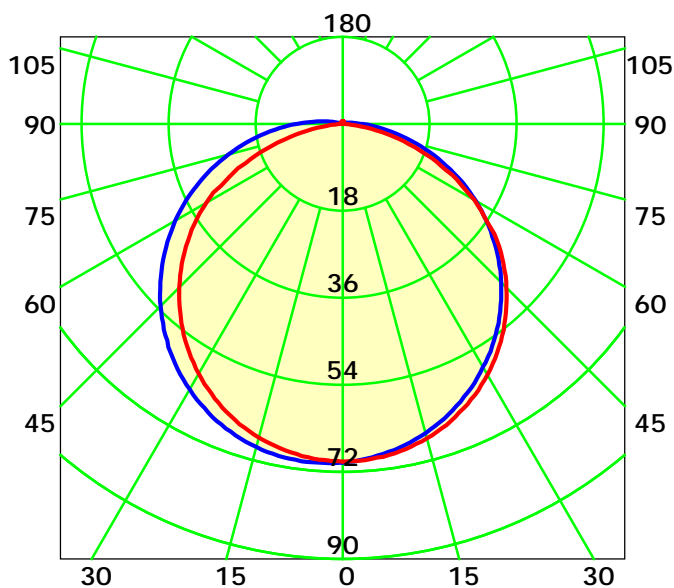
Central Intensity: 70.43 cd

Pos of Max. Intensity: H180 V6

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 118.3° Unit: cd

— C0-C180 — C90-C270

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

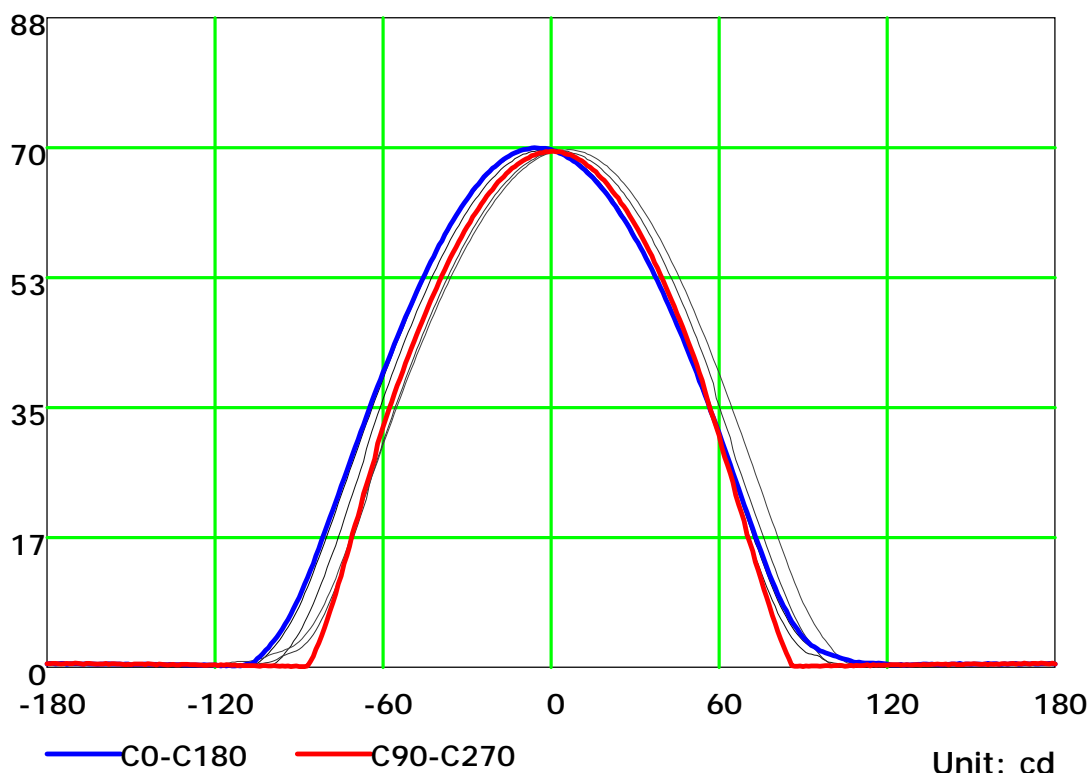
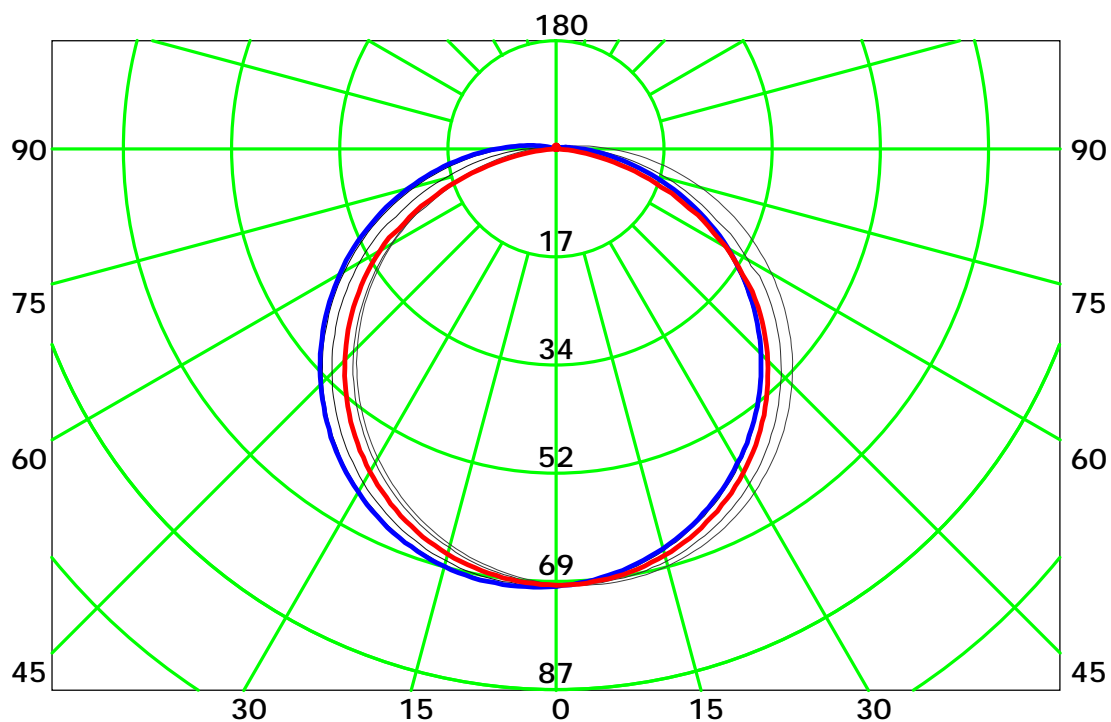
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

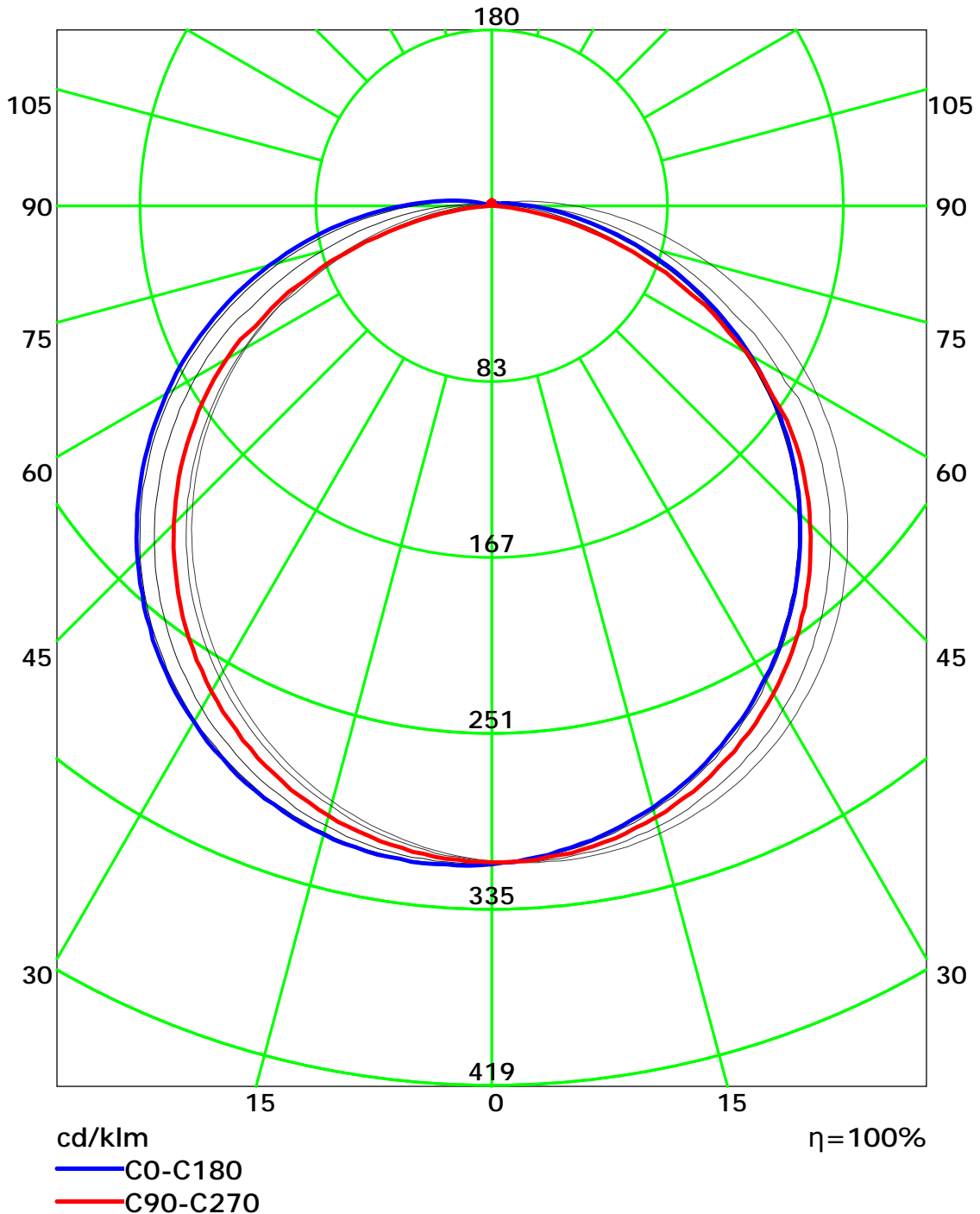
Luminous Intensity Distribution Curve



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:

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
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

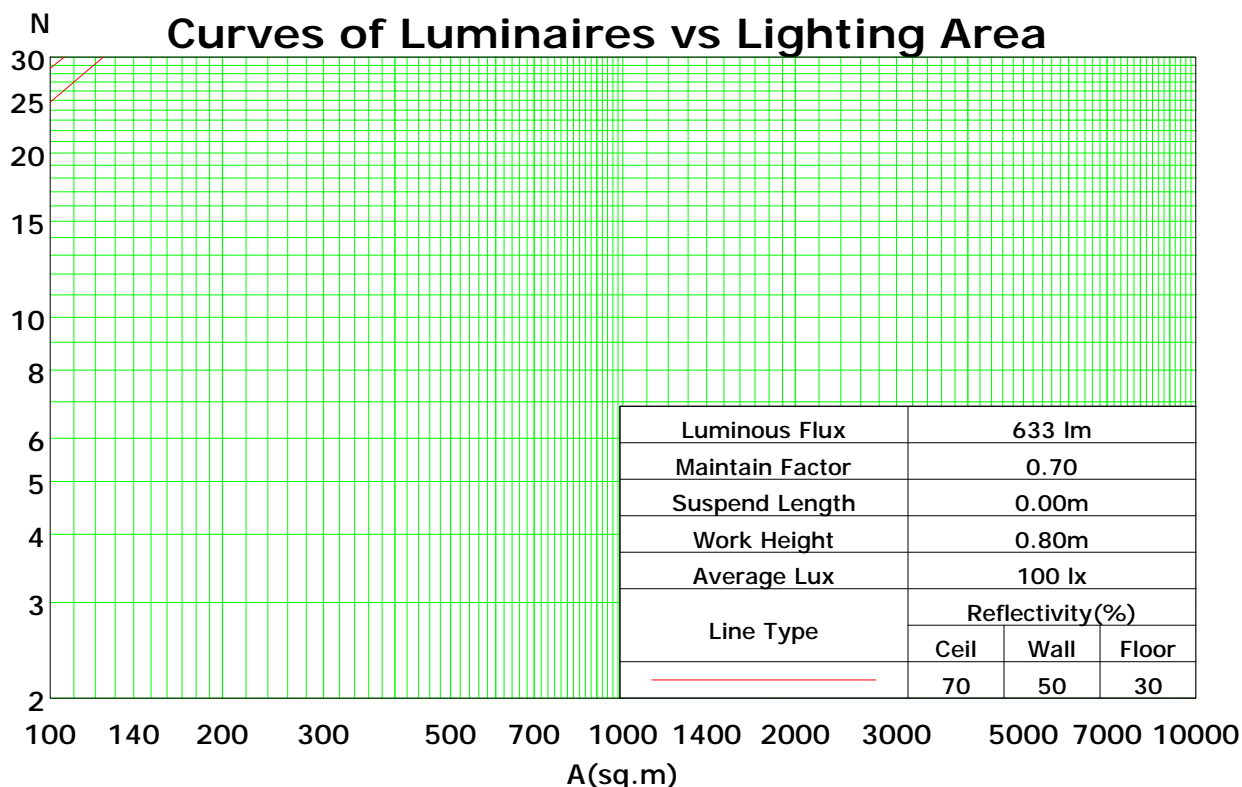
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	99	95	91	95	91	88	90	87	85	86	84	82	79
2	97	88	81	75	94	86	79	74	82	76	72	78	74	70	75	71	68	65
3	88	77	68	62	85	75	67	61	72	65	59	69	63	58	66	61	57	54
4	80	68	59	52	78	66	58	51	64	56	50	61	55	49	58	53	48	46
5	74	61	51	44	72	59	51	44	57	49	43	55	48	43	52	47	42	40
6	68	54	45	39	66	53	45	38	51	44	38	49	42	37	47	41	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	43	37	32	30
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	30	24	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.41



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

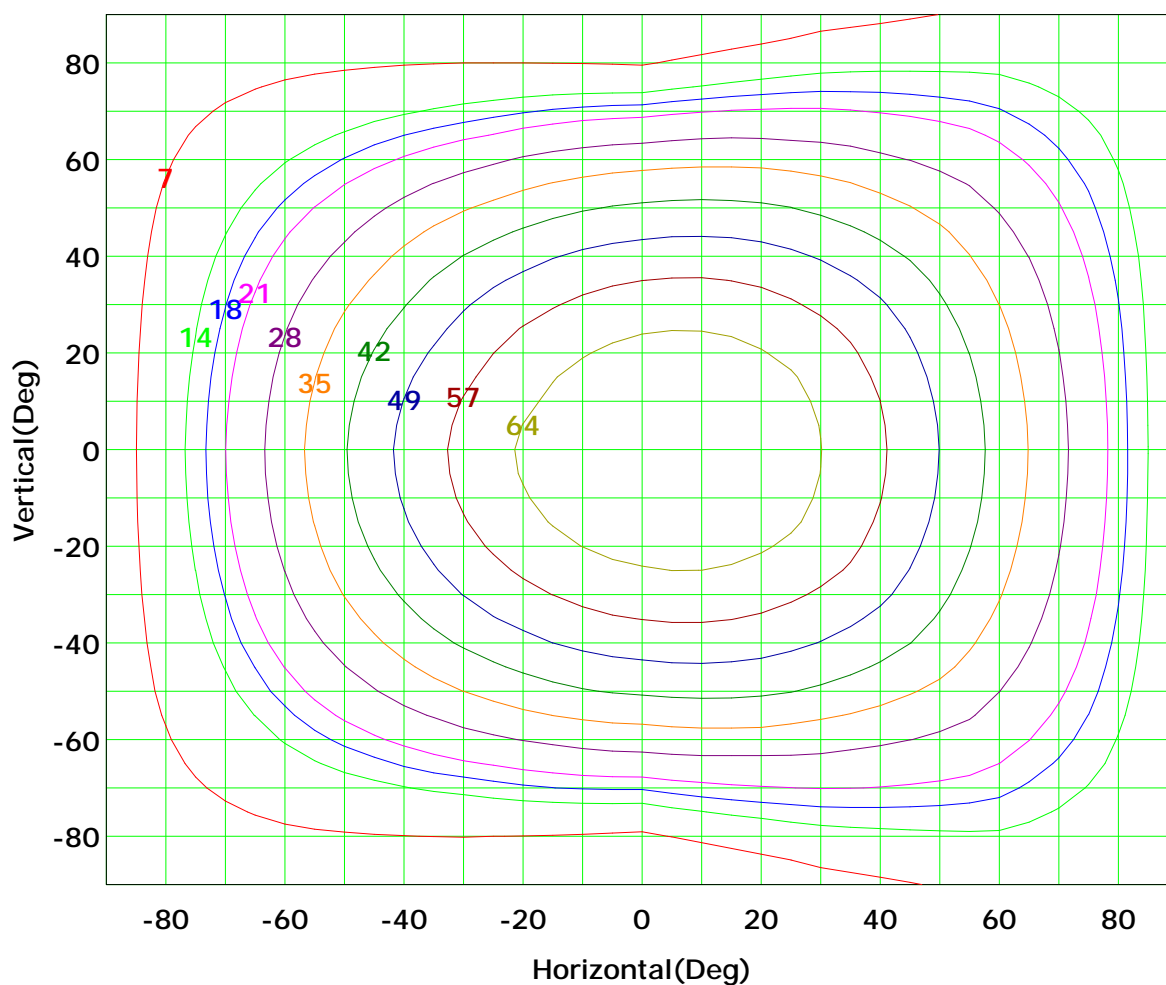
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 71 cd

(10%):	7 cd	(20%):	14 cd
(25%):	18 cd	(30%):	21 cd
(40%):	28 cd	(50%):	35 cd
(60%):	42 cd	(70%):	49 cd
(80%):	57 cd	(90%):	64 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

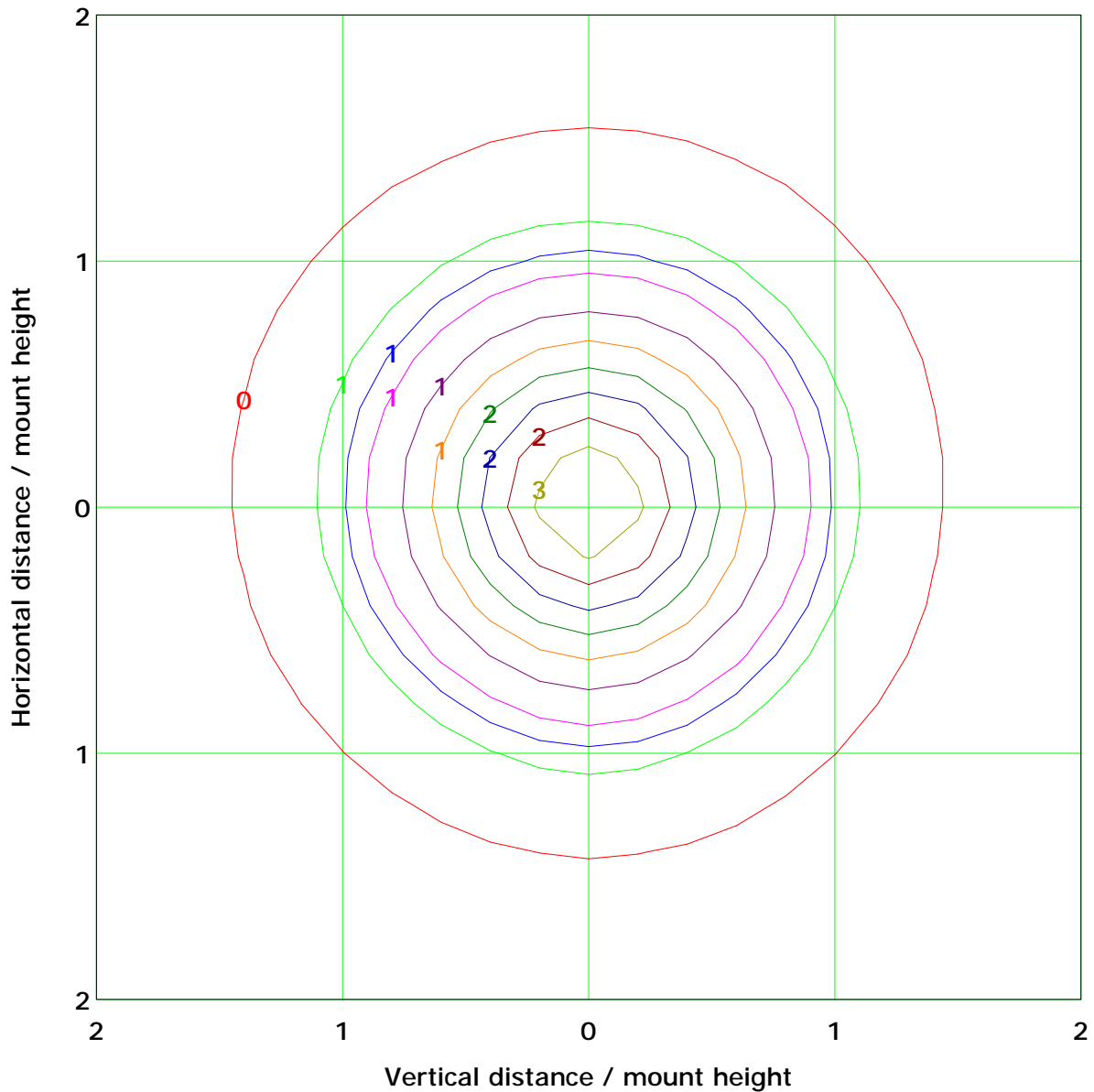
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.8 lx

(10%): 0.3 lx	(20%): 0.6 lx
(25%): 0.7 lx	(30%): 0.8 lx
(40%): 1.1 lx	(50%): 1.4 lx
(60%): 1.7 lx	(70%): 2.0 lx
(80%): 2.3 lx	(90%): 2.5 lx

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

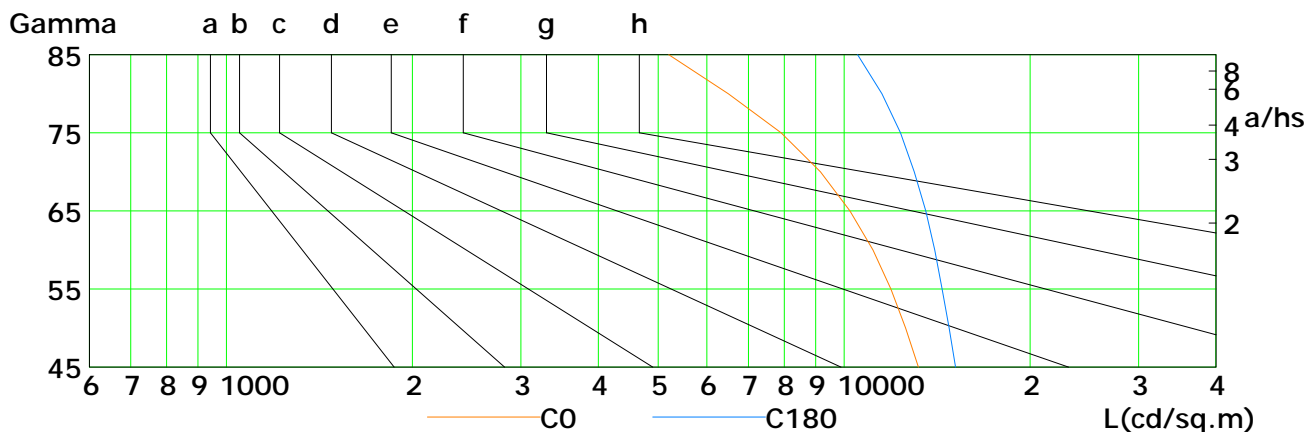
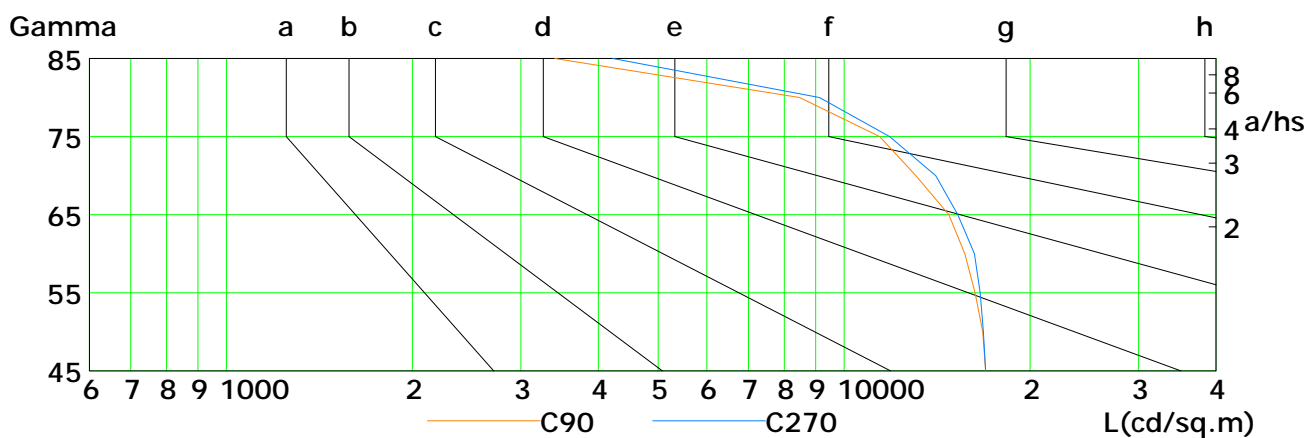
Humidity: 60%

Inspector:

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	13189	12582	11910	11137	10216	9156	7910	6496	5205
C90	16956	16776	16295	15686	14780	13072	11421	8475	3401
C180	15158	14800	14421	14023	13563	13000	12343	11516	10514
C270	16949	16811	16620	16267	15273	14077	11849	9122	4224

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

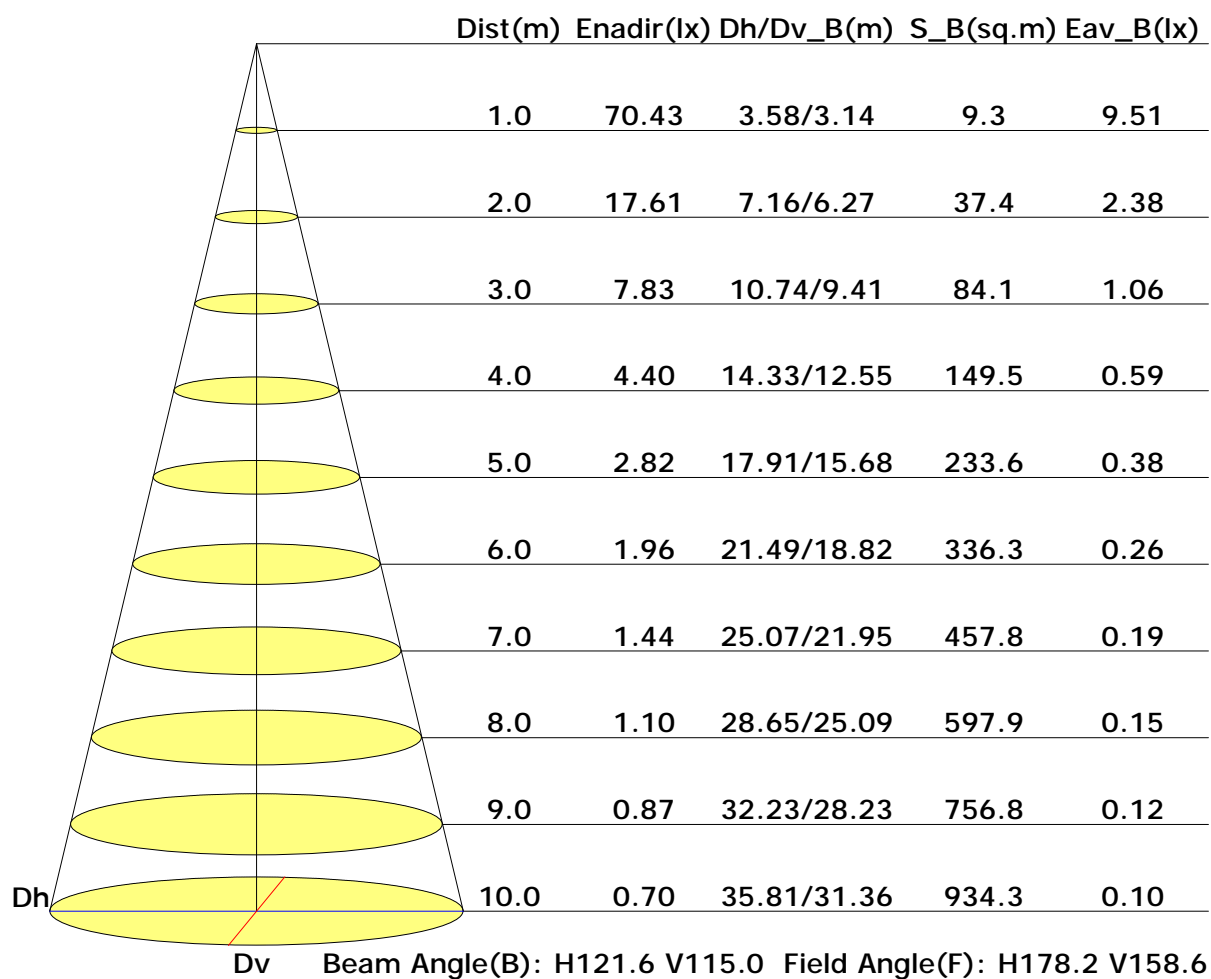
Test Device: GPM-1800B

Distance: 9.028 m

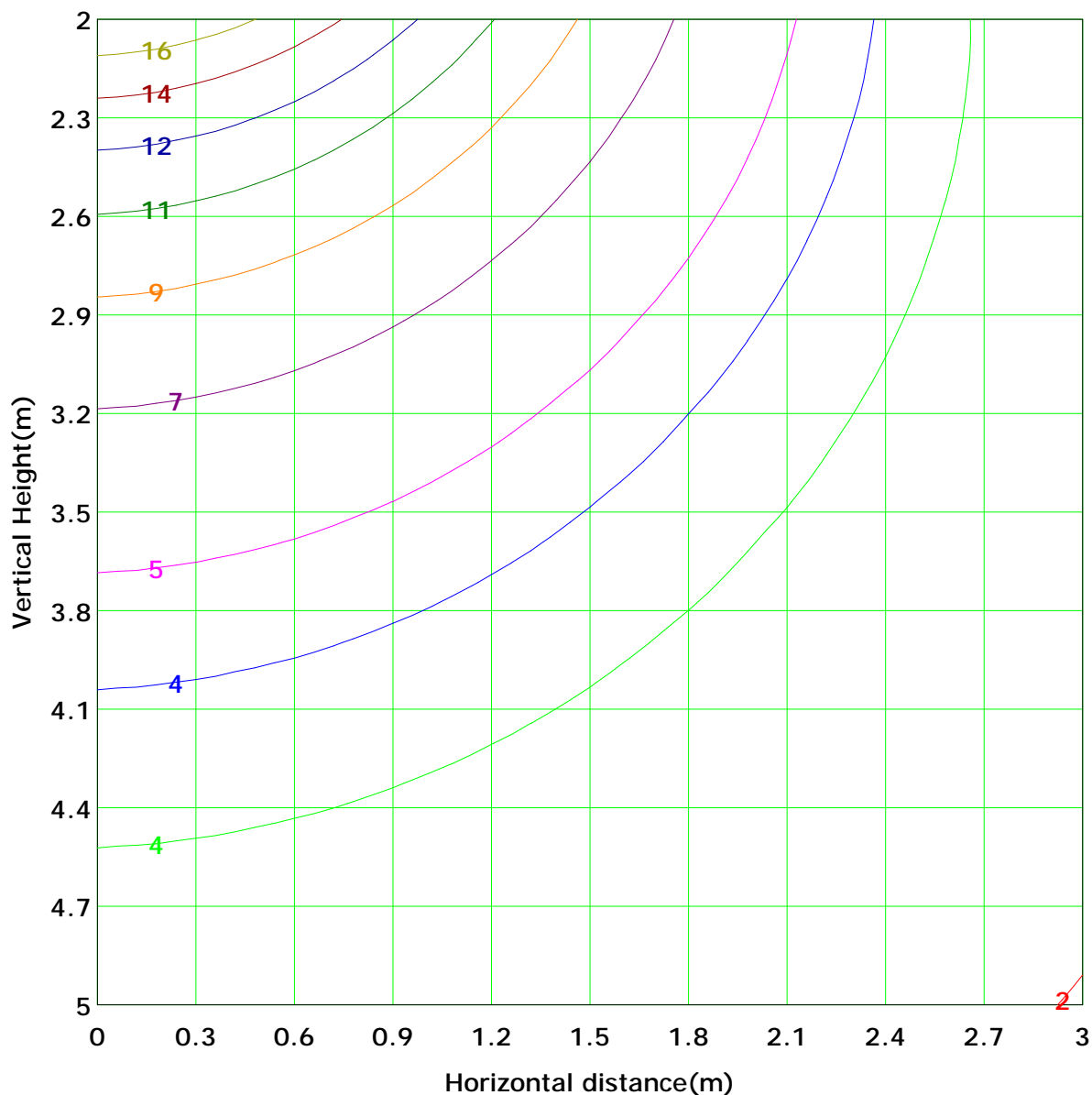
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 17.6 lx
(10%): 1.8 lx	(20%): 3.5 lx	
(25%): 4.4 lx	(30%): 5.3 lx	
(40%): 7.0 lx	(50%): 8.8 lx	
(60%): 10.6 lx	(70%): 12.3 lx	
(80%): 14.1 lx	(90%): 15.8 lx	

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:

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	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.6	0.6
	-80	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.1	0.0	2.7	2.7
	-70	0.0	0.1	0.2	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.2	0.0	0.0	5.8	5.8
	-60	0.0	0.1	0.2	0.5	0.7	0.8	1.0	1.1	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.4	0.3	0.0	0.0	9.7	9.7
	-50	0.0	0.1	0.3	0.6	0.8	1.1	1.2	1.4	1.5	1.5	1.7	1.8	1.9	2.0	2.0	1.9	0.4	0.0	0.0	13.8	13.8
	-40	0.0	0.2	0.4	0.7	1.0	1.2	1.5	1.7	1.8	1.9	2.0	2.1	2.1	2.1	2.1	2.0	0.4	0.0	0.0	17.6	17.6
	-30	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	20.7	20.7
	-20	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	22.7	22.7
	-10	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	23.3	23.3
	0	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	22.8	22.8
	10	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	21.0	21.0
	20	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	18.2	18.2
	30	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	14.6	14.6
	40	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	10.7	10.7
	50	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	6.9	6.9
	60	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	3.7	3.7
	70	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	1.4	1.4
	80	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	0.1	0.1
	90	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.1	0.4	0.0	0.0	0.3	0.3
	Flux(T)																				219	
	Flux(E)																					217

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

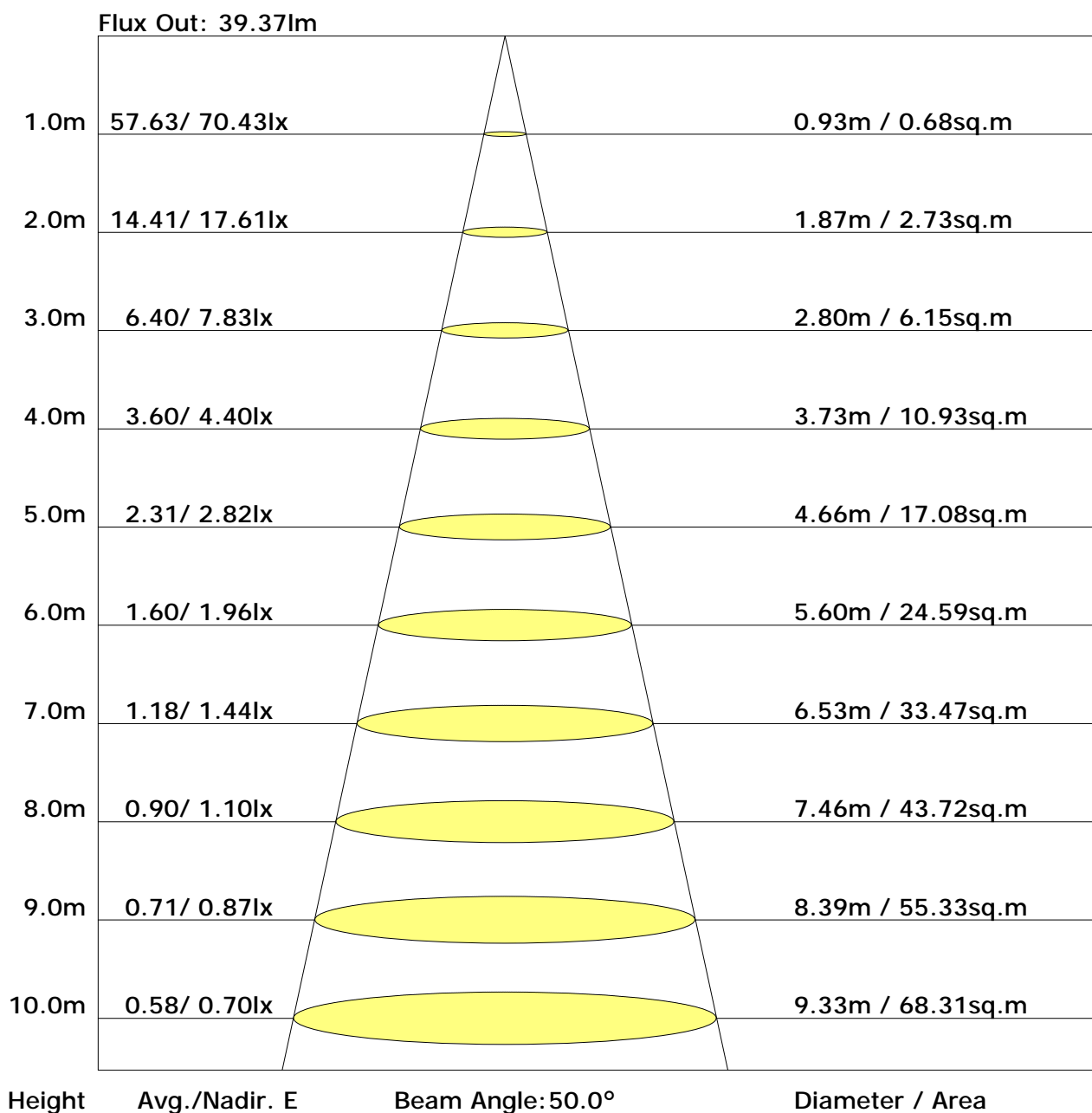
Test Device: GPM-1800B

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	26.1	27.7	26.5	28.0	28.4	25.8	27.4	26.2	27.8	28.1
3H	28.0	29.5	28.4	29.9	30.3	27.2	28.7	27.6	29.1	29.5
4H	28.8	30.2	29.3	30.6	31.1	27.7	29.1	28.1	29.5	29.9
6H	29.5	30.8	30.0	31.2	31.7	27.9	29.2	28.4	29.6	30.1
8H	29.8	31.1	30.3	31.5	32.0	28.0	29.2	28.4	29.6	30.1
12H	30.1	31.3	30.6	31.7	32.2	28.0	29.1	28.4	29.6	30.1
X=4H Y=2H	26.5	27.9	27.0	28.3	28.8	26.5	27.9	27.0	28.3	28.7
3H	28.7	29.9	29.1	30.3	30.8	28.2	29.4	28.7	29.9	30.3
4H	29.6	30.7	30.1	31.1	31.6	28.8	29.9	29.3	30.4	30.8
6H	30.4	31.4	30.9	31.9	32.4	29.2	30.1	29.7	30.6	31.1
8H	30.8	31.7	31.3	32.2	32.7	29.3	30.1	29.7	30.6	31.1
12H	31.2	32.0	31.7	32.5	33.0	29.3	30.1	29.8	30.6	31.1
X=8H Y=4H	29.8	30.7	30.3	31.2	31.7	29.3	30.2	29.8	30.7	31.2
6H	30.7	31.5	31.3	32.0	32.5	29.8	30.6	30.4	31.1	31.7
8H	31.2	31.9	31.7	32.4	32.9	30.0	30.7	30.6	31.2	31.8
12H	31.7	32.3	32.2	32.8	33.4	30.1	30.7	30.6	31.2	31.8
X=12H Y=4H	29.8	30.6	30.3	31.1	31.7	29.5	30.3	30.0	30.8	31.3
6H	30.8	31.4	31.3	31.9	32.5	30.1	30.7	30.6	31.2	31.8
8H	31.3	31.9	31.8	32.4	33.0	30.3	30.9	30.8	31.4	32.0

Calculate in accordance with CIE 190:2010

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(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	0.54	0.64	0.71	0.77	0.84	0.89	0.93	0.98	1.01
	0.30		0.45	0.56	0.63	0.69	0.77	0.83	0.87	0.93	0.97
	0.20		0.40	0.50	0.57	0.63	0.72	0.78	0.83	0.89	0.93
0.50	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.85	0.89	0.93	0.96
	0.30		0.44	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.93
	0.20		0.39	0.49	0.56	0.62	0.70	0.76	0.80	0.86	0.90
0.30	0.50	0.20	0.50	0.59	0.66	0.71	0.77	0.82	0.85	0.89	0.92
	0.30		0.44	0.53	0.60	0.65	0.72	0.78	0.81	0.86	0.89
	0.20		0.39	0.48	0.55	0.61	0.68	0.74	0.78	0.83	0.87
0.00	0.00	0.00	0.36	0.45	0.52	0.57	0.65	0.70	0.73	0.78	0.81
<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	1.03	0.86	0.74	0.65	0.52	0.44	0.38	0.29	0.24	
	0.30		0.86	0.73	0.64	0.57	0.47	0.40	0.35	0.28	0.23	
	0.20		0.74	0.64	0.57	0.51	0.43	0.37	0.32	0.26	0.22	
0.50	0.50	0.20	0.99	0.82	0.70	0.62	0.50	0.45	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.27	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.30	0.50	0.20	0.96	0.79	0.67	0.59	0.47	0.40	0.34	0.27	0.22	
	0.30		0.82	0.69	0.60	0.54	0.44	0.37	0.32	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.00	0.00	0.00	0.62	0.52	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
<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	0.19	0.20	0.21	0.22	0.23	0.23	0.23	0.24	0.24
	0.30		0.12	0.13	0.15	0.16	0.17	0.19	0.19	0.21	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.23
	0.30		0.12	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	0.15	0.17	0.18
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.21	0.22	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	0.10	0.11	0.12	0.14	0.15	0.17	0.18
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<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>											