

Report No.:

Test Time: 2017/11/9 15:01

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RB244.4RGB30 (ALL)

Luminaire Description: RB244.4RGB30 (ALL)

Luminous Length (mm): 500

Luminous Width (mm): 10

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.315 A

Power: 7.56 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 371.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H118.6

Vertical Diffuse Angle(50%): V119.1

Luminaire Efficacy Rating (LER): 49

Max. Intensity: 121.31 cd

Total Rated Lamp Lumens: 371.7 lm

Efficiency: 100%

Upward Ratio: 0%

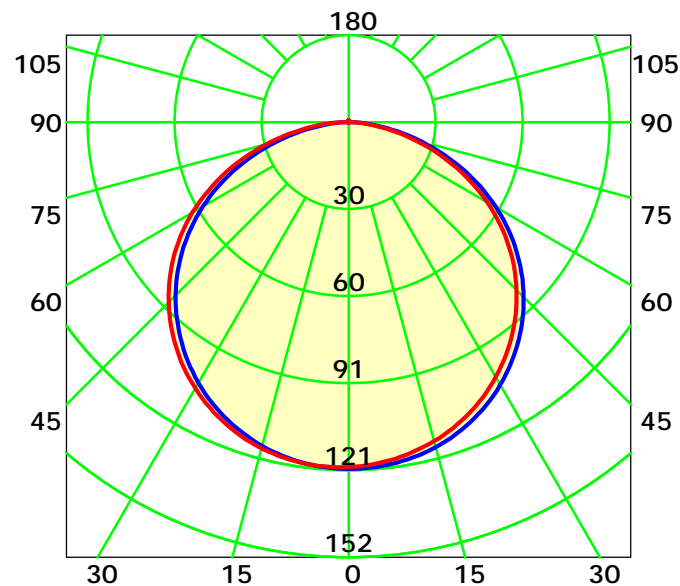
Central Intensity: 121.29 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 118.8° 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

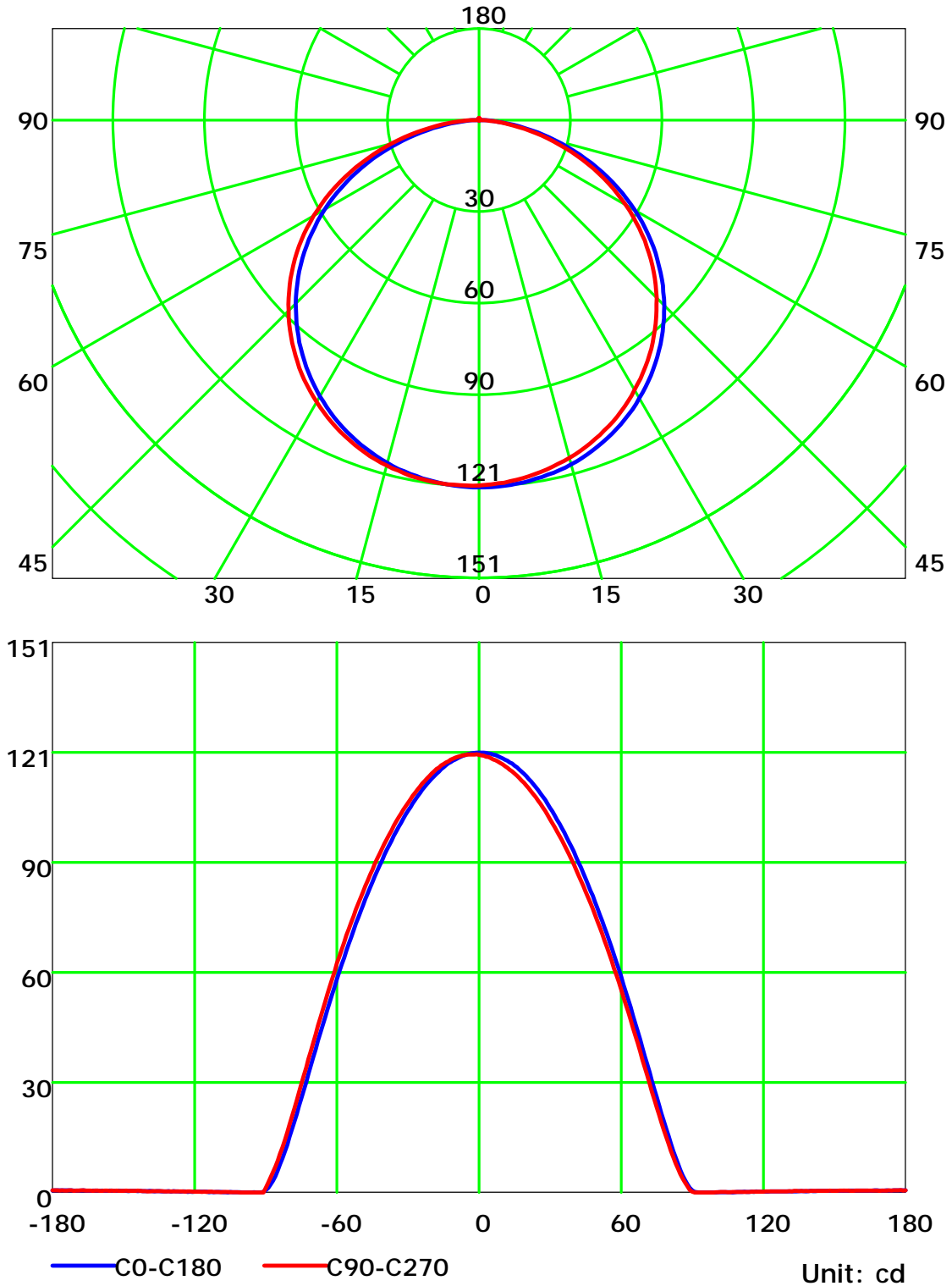
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

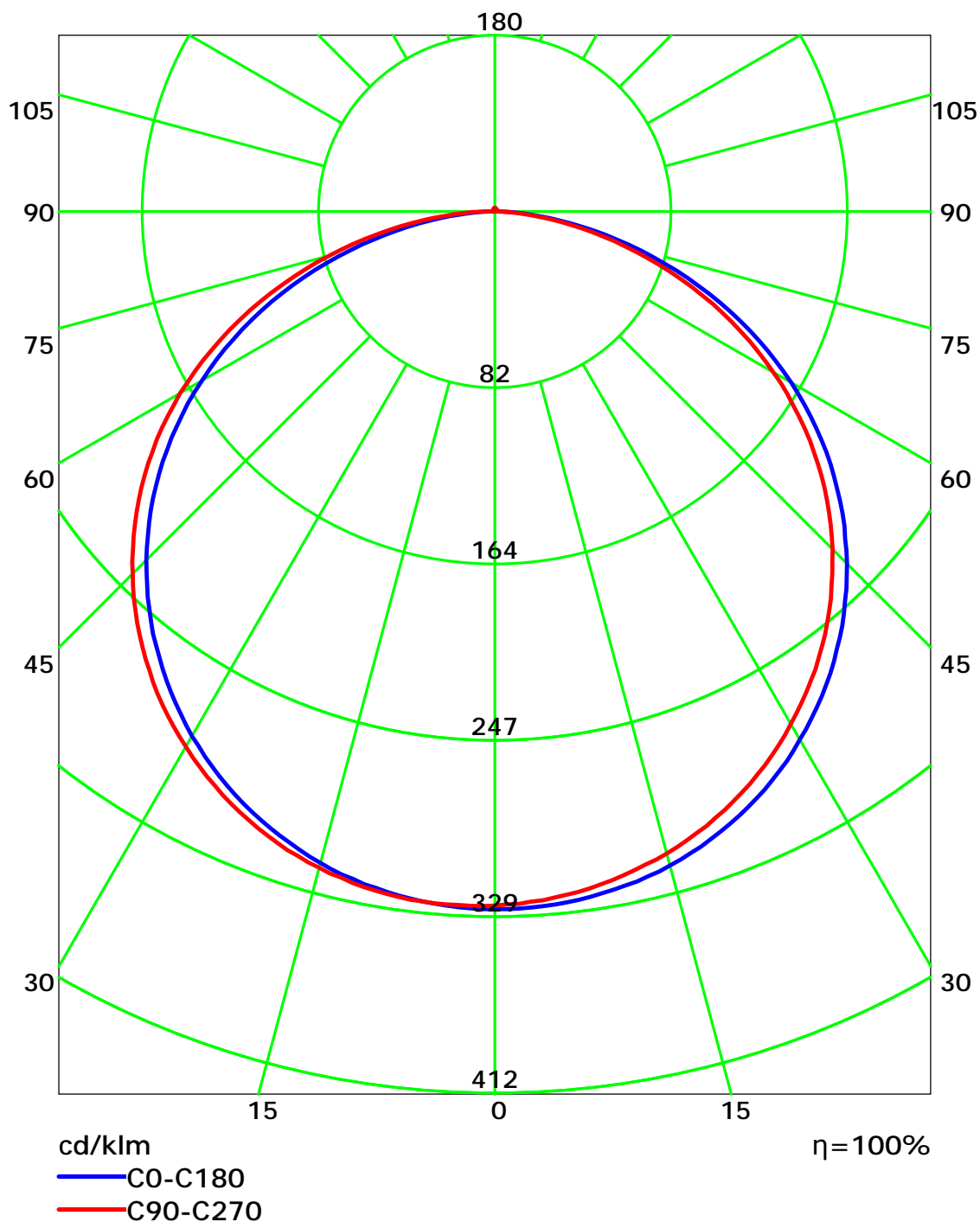
Luminous Intensity Distribution Curve



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:

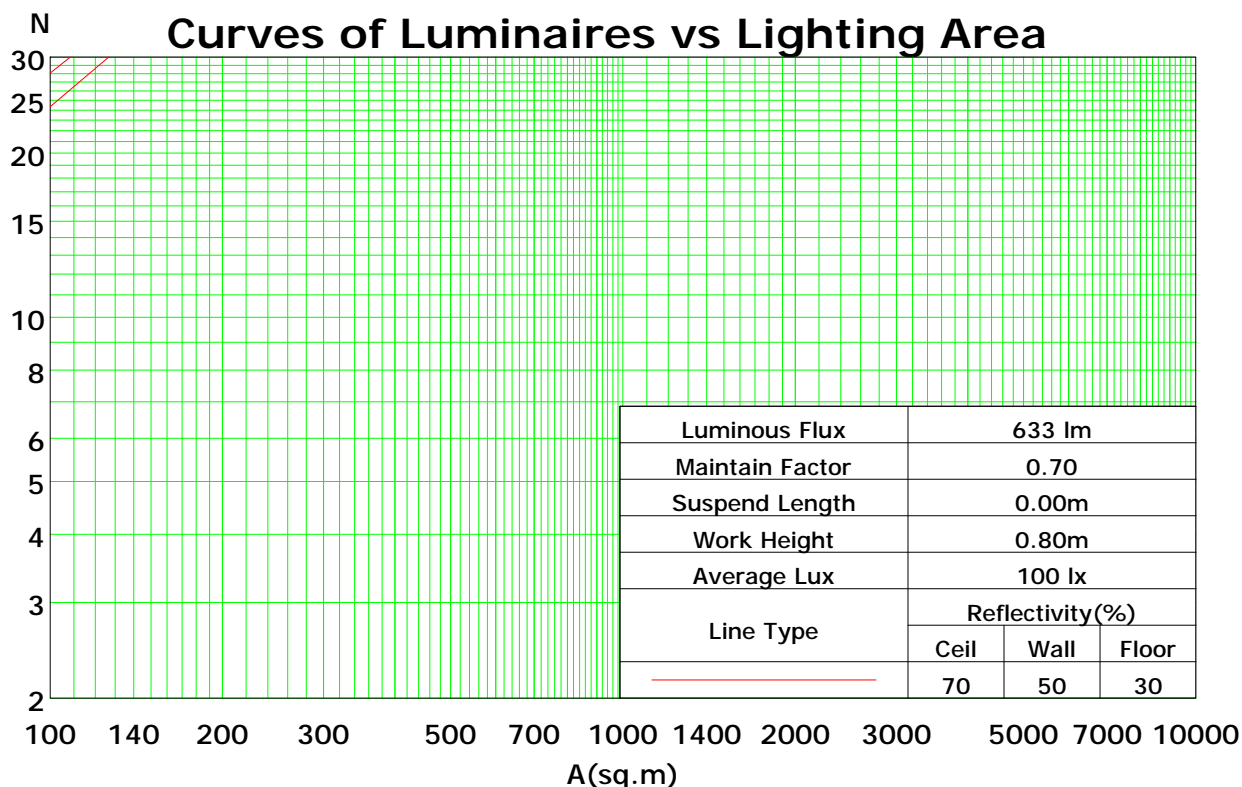
Coefficients Of Utilization - Zonal Cavity Method

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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	48	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.30

Spacing Criteria (Diagonal): 1.42



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

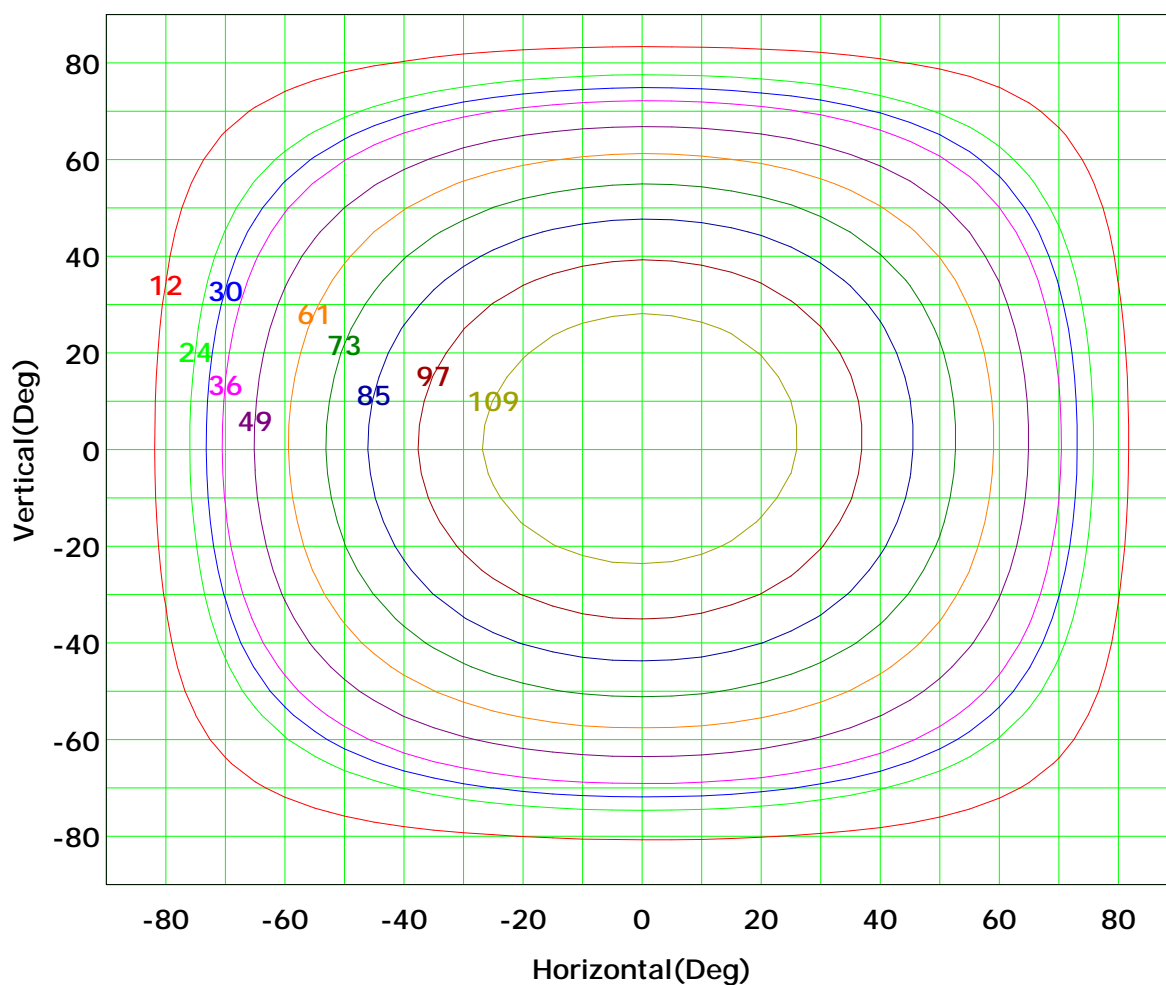
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 121 cd

(10%): 12 cd	(20%): 24 cd
(25%): 30 cd	(30%): 36 cd
(40%): 49 cd	(50%): 61 cd
(60%): 73 cd	(70%): 85 cd
(80%): 97 cd	(90%): 109 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

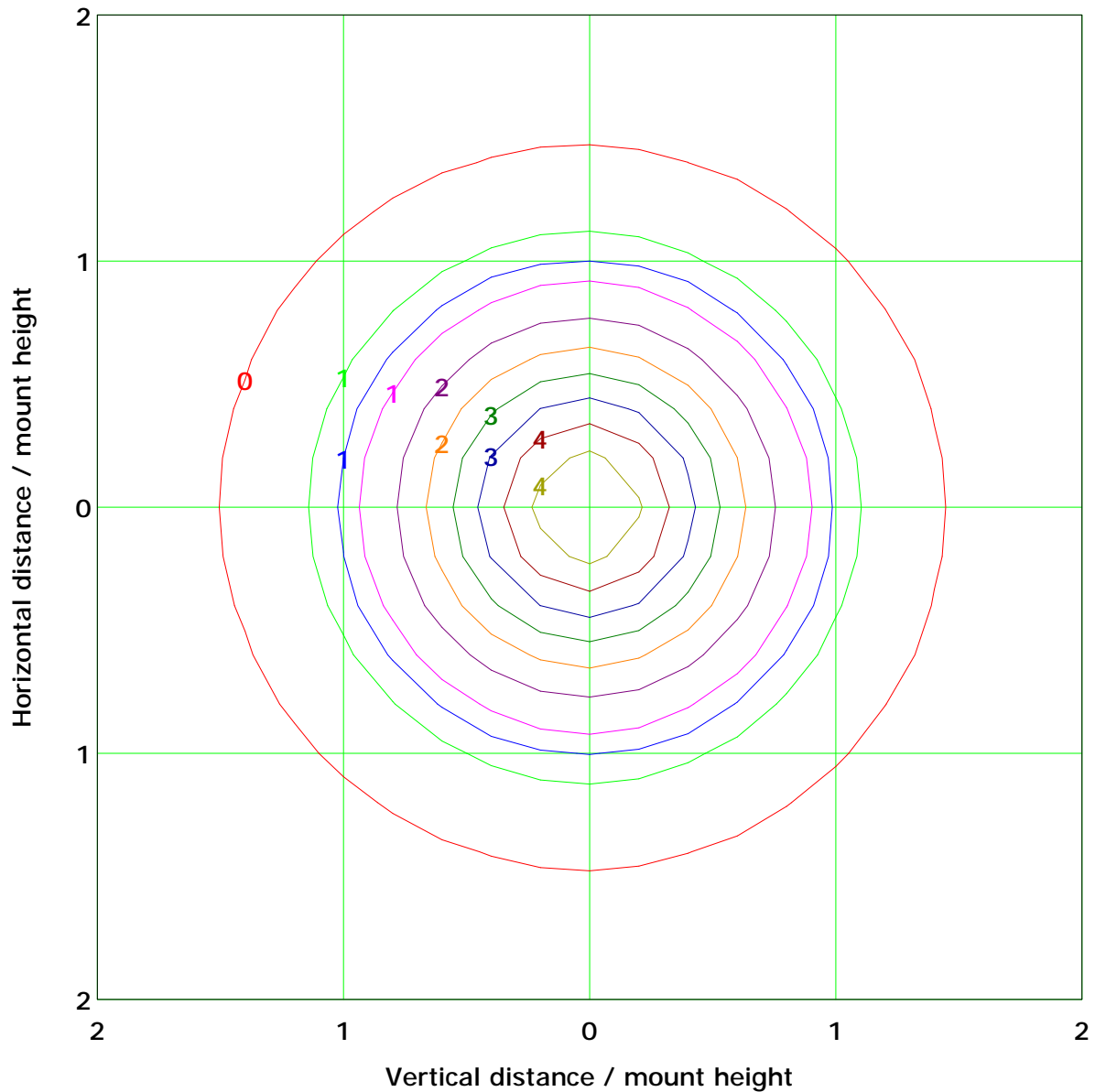
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 4.9 lx

(10%): 0.5 lx	(20%): 1.0 lx
(25%): 1.2 lx	(30%): 1.5 lx
(40%): 1.9 lx	(50%): 2.4 lx
(60%): 2.9 lx	(70%): 3.4 lx
(80%): 3.9 lx	(90%): 4.4 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

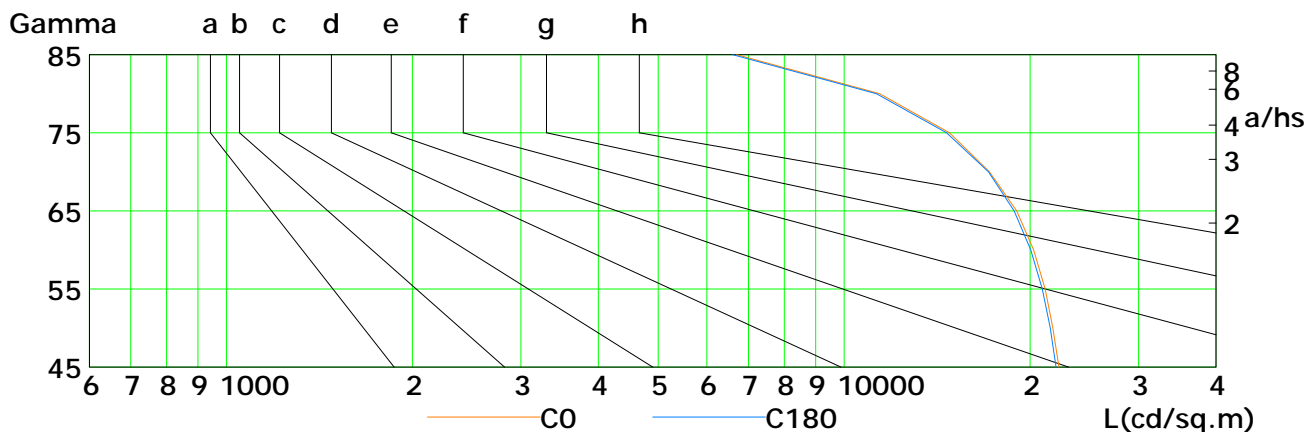
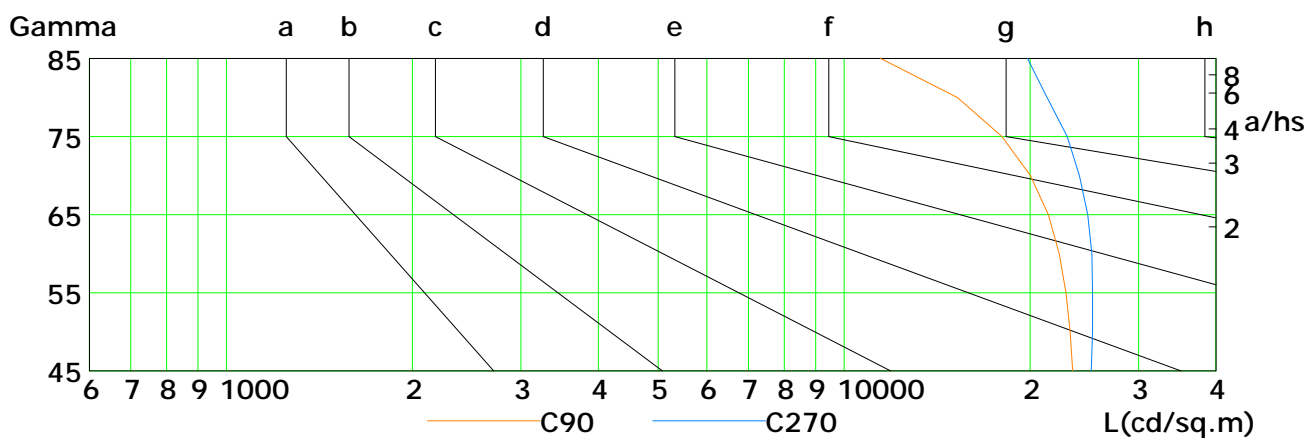
Humidity: 60%

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	22267	21788	21166	20276	19028	17202	14817	11421	6703
C90	23440	23228	22865	22295	21407	20041	18017	15272	11464
C180	22046	21574	20937	20058	18856	17143	14659	11289	6607
C270	25140	25245	25267	25201	24796	24048	22987	21319	19832

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

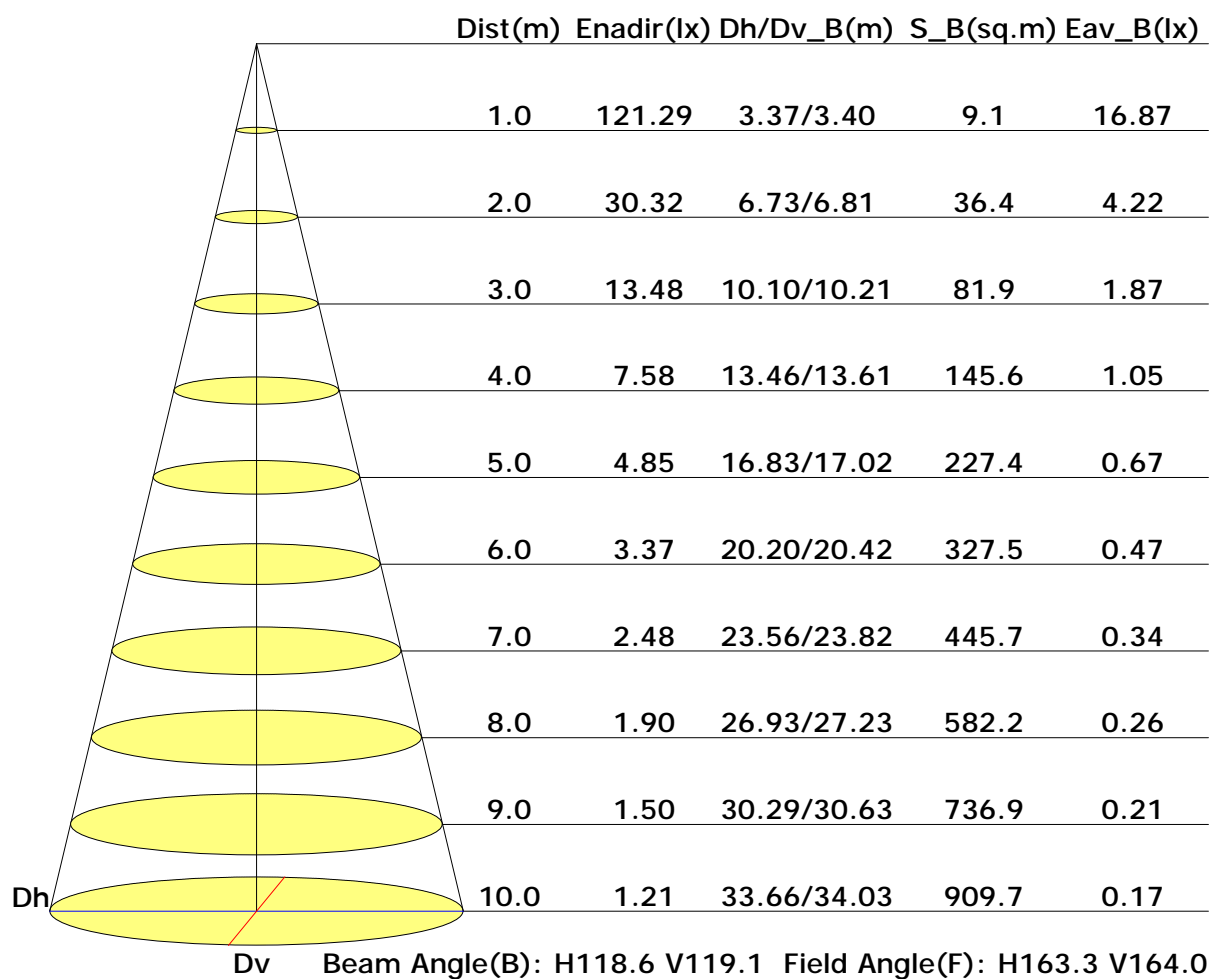
Test Device: GPM-1800B

Distance: 9.028 m

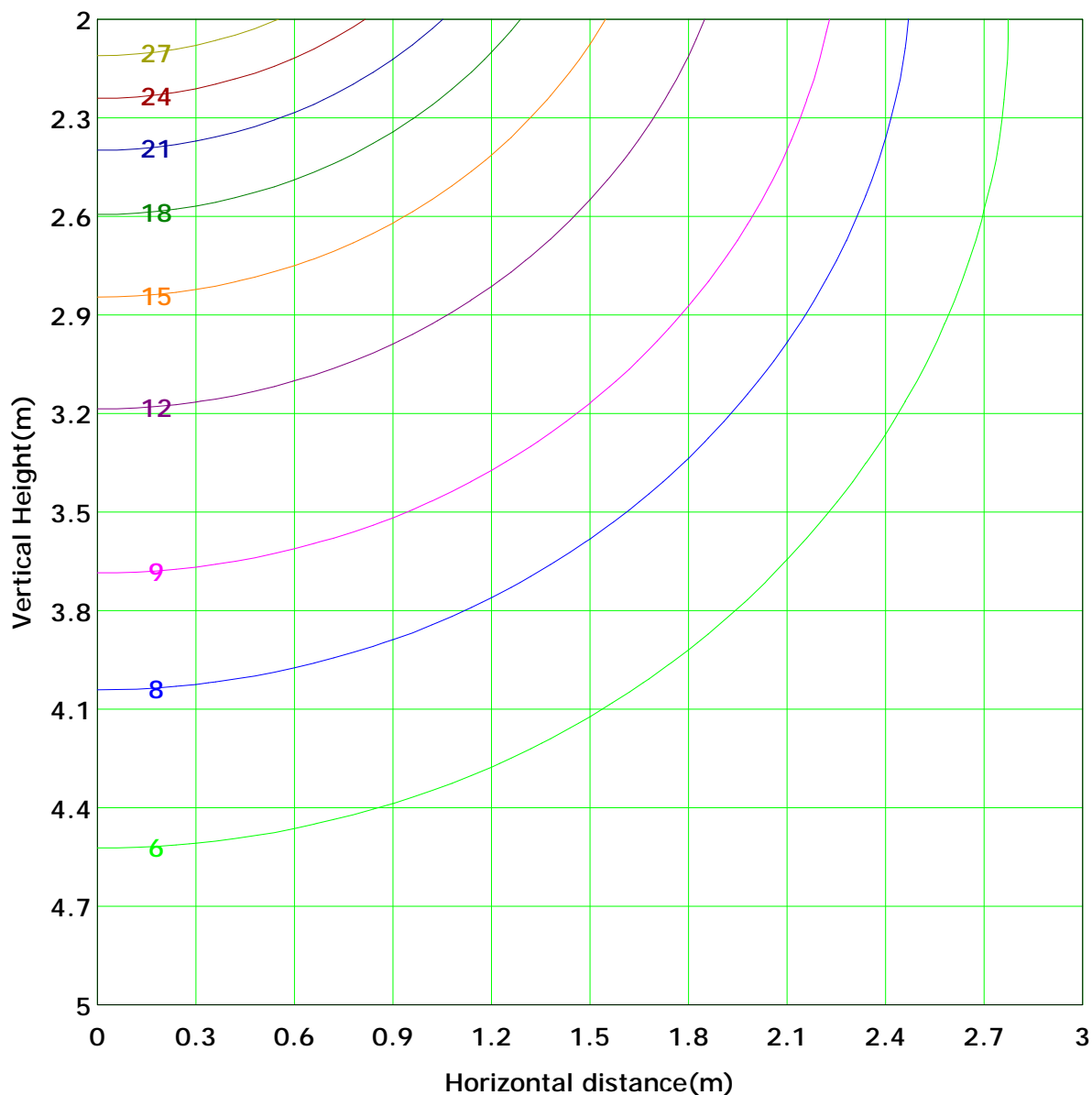
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



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

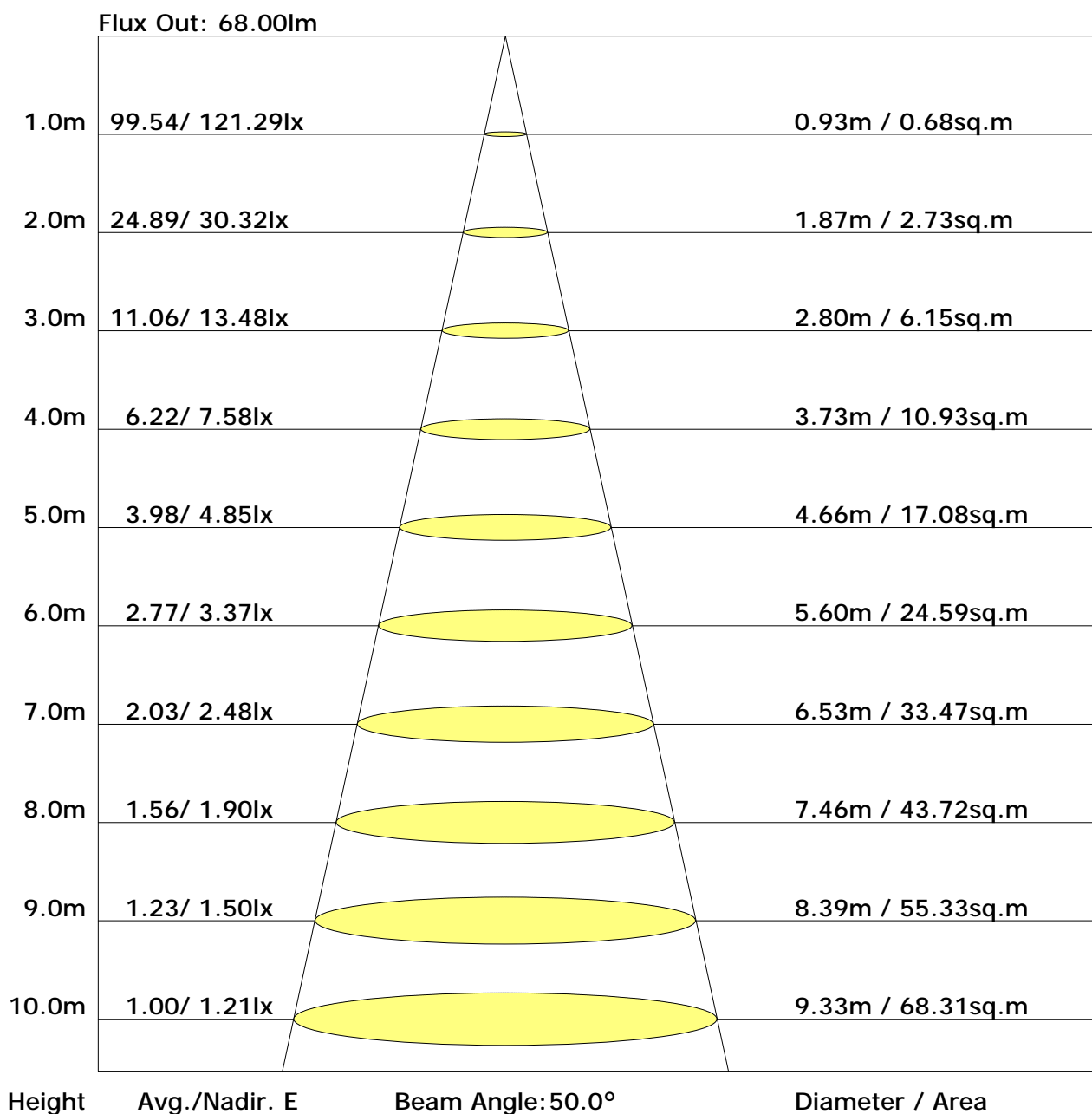
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	2.4	0.8
		0.0	0.0	0.1	0.3	0.4	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.4	0.2	0.1	0.0	0.0	7.7	7.3
0.0	0.3	0.0	0.1	0.2	0.5	0.7	1.0	1.3	1.5	1.6	1.7	1.8	1.8	1.7	1.5	1.2	0.9	0.7	0.5	0.3	13.7	13.5
0.0	0.0	0.1	0.3	0.7	1.1	1.5	2.1	2.6	3.1	3.4	3.6	3.6	3.5	3.3	3.0	2.5	2.0	1.5	1.0	0.6	19.2	19.2
0.0	0.0	0.1	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.9	3.1	3.2	3.2	3.0	2.8	2.2	1.8	1.3	0.8	0.4	23.9	23.8
0.0	0.0	0.2	0.5	1.0	1.5	2.1	2.6	3.1	3.4	3.6	3.6	3.4	3.3	3.0	2.8	2.2	1.8	1.3	0.8	0.5	27.6	27.6
0.0	0.0	0.2	0.6	1.1	1.7	2.3	2.8	3.2	3.4	3.6	3.6	3.4	3.3	3.0	2.8	2.2	1.8	1.3	0.8	0.6	30.4	30.4
0.0	0.0	0.2	0.6	1.2	1.8	2.4	3.0	3.4	3.6	3.6	3.6	3.4	3.3	3.0	2.8	2.2	1.8	1.3	0.8	0.6	32.2	32.2
0.0	0.0	0.2	0.6	1.2	1.8	2.5	3.0	3.4	3.6	3.6	3.6	3.4	3.3	3.0	2.8	2.2	1.8	1.3	0.8	0.6	32.8	32.8
0.0	0.0	0.2	0.6	1.2	1.8	2.5	3.0	3.4	3.6	3.6	3.6	3.4	3.3	3.0	2.8	2.2	1.8	1.3	0.8	0.6	33.0	33.0
0.0	0.0	0.2	0.6	1.2	1.8	2.5	3.0	3.4	3.6	3.6	3.6	3.4	3.3	3.0	2.8	2.2	1.8	1.3	0.8	0.6	33.6	31.6
0.0	0.0	0.2	0.6	1.1	1.8	2.4	2.9	3.3	3.5	3.5	3.5	3.3	3.3	3.0	2.9	2.4	2.0	1.5	1.0	0.6	29.4	29.4
0.0	0.0	0.2	0.6	1.1	1.6	2.2	2.7	3.1	3.3	3.3	3.3	3.1	3.1	2.7	2.4	2.0	1.5	1.0	0.6	0.5	26.3	26.3
0.0	0.0	0.2	0.5	0.9	1.5	2.0	2.4	2.7	3.0	3.2	3.3	3.1	3.1	2.7	2.4	2.0	1.5	1.0	0.6	0.4	22.3	22.3
0.0	0.0	0.1	0.4	0.8	1.2	1.7	2.1	2.4	2.7	2.9	3.1	3.1	3.0	2.7	2.4	2.0	1.5	1.0	0.6	0.3	17.5	17.4
0.0	0.0	0.1	0.3	0.6	1.0	1.3	1.6	1.9	2.0	2.1	2.2	2.2	2.1	1.9	1.6	1.3	0.9	0.6	0.3	0.1	11.9	11.7
0.0	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.3	1.4	1.4	1.4	1.3	1.1	1.1	0.9	0.6	0.4	0.2	0.1	0.0	6.2	5.5
0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.3	0.2	0.1	0.0	0.0	1.5	0.1
0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
0.3	2.3	2.3	6.8	13.2	20.5	27.8	34.2	38.9	41.3	41.3	41.3	38.8	34.1	27.7	20.4	13.1	6.7	2.3	0.3	0.3	370	
0.0	2.0	6.5	12.9	20.2	27.5	33.9	38.6	41.0	41.0	38.5	33.8	27.5	20.1	12.8	6.4	2.0	0.1				365	

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	26.9	28.5	28.9	25.9	27.6	26.3	27.9	28.2
3H	28.4	29.9	28.8	30.3	30.6	27.6	29.1	28.0	29.4	29.8
4H	29.1	30.5	29.5	30.9	31.3	28.2	29.6	28.6	29.9	30.3
6H	29.6	30.9	30.0	31.3	31.7	28.5	29.8	28.9	30.2	30.6
8H	29.8	31.0	30.2	31.4	31.8	28.6	29.8	29.0	30.2	30.7
12H	29.9	31.1	30.3	31.4	31.9	28.6	29.8	29.1	30.2	30.7
X=4H Y=2H	27.2	28.6	27.6	28.9	29.3	26.6	28.0	27.0	28.4	28.7
3H	29.2	30.4	29.6	30.8	31.2	28.5	29.6	28.9	30.1	30.5
4H	30.0	31.1	30.5	31.5	32.0	29.1	30.2	29.6	30.6	31.1
6H	30.6	31.6	31.1	32.0	32.5	29.6	30.5	30.0	31.0	31.4
8H	30.8	31.7	31.3	32.2	32.6	29.7	30.6	30.2	31.0	31.5
12H	31.0	31.8	31.4	32.2	32.7	29.8	30.6	30.2	31.0	31.5
X=8H Y=4H	30.3	31.2	30.8	31.6	32.1	29.4	30.3	29.9	30.8	31.2
6H	31.0	31.7	31.5	32.2	32.7	30.0	30.7	30.5	31.2	31.7
8H	31.2	31.9	31.8	32.4	32.9	30.1	30.8	30.6	31.3	31.8
12H	31.4	32.0	31.9	32.5	33.1	30.2	30.8	30.7	31.3	31.9
X=12H Y=4H	30.3	31.1	30.8	31.6	32.1	29.5	30.3	30.0	30.7	31.2
6H	31.0	31.7	31.6	32.2	32.7	30.0	30.7	30.6	31.2	31.7
8H	31.3	31.9	31.8	32.4	33.0	30.2	30.8	30.7	31.3	31.9

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 = 1.50								
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	0.58	0.67	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.51	0.59	0.67	0.73	0.81	0.86	0.91	0.96	1.00
	0.20		0.45	0.53	0.61	0.67	0.76	0.82	0.86	0.92	0.96
0.50	0.50	0.20	0.57	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.50	0.58	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.45	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.55	0.63	0.70	0.74	0.81	0.85	0.88	0.92	0.95
	0.30		0.49	0.57	0.64	0.69	0.77	0.81	0.85	0.89	0.93
	0.20		0.45	0.52	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.42	0.50	0.57	0.62	0.69	0.74	0.78	0.82	0.86
<p>Rating:8W 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	0.97	0.83	0.70	0.61	0.49	0.40	0.35	0.27	0.22
	0.30		0.81	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.69	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.50	0.50	0.20	0.93	0.79	0.67	0.58	0.46	0.42	0.33	0.26	0.21
	0.30		0.79	0.69	0.59	0.52	0.42	0.36	0.31	0.24	0.20
	0.20		0.69	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.30	0.50	0.20	0.91	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20
	0.30		0.77	0.67	0.58	0.51	0.41	0.34	0.30	0.23	0.19
	0.20		0.68	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.57	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14
<p>Rating:8W 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	0.20	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	0.08	0.09	0.12	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	0.07	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	0.19	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	0.07	0.08	0.09	0.11	0.13	0.14	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:8W 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>												