

Report No.:

Test Time: 2018/10/10 15:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.209 A

Power Factor: 1.000

Luminaire Description: RBMC20243.0UV

Luminous Width (mm): 5

Voltage: 24.0 V

Power: 5.01 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2.3 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H132.6

Vertical Diffuse Angle(50%): V125.4

Luminaire Efficacy Rating (LER): 0

Max. Intensity: 0.74 cd

Total Rated Lamp Lumens: 2.3 lm

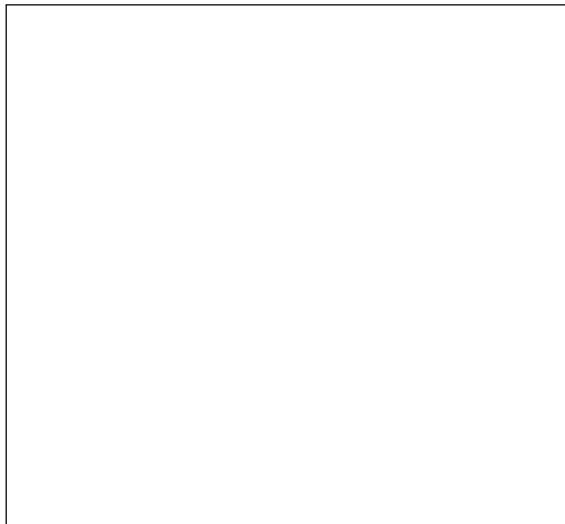
Efficiency: 100%

Upward Ratio: 8%

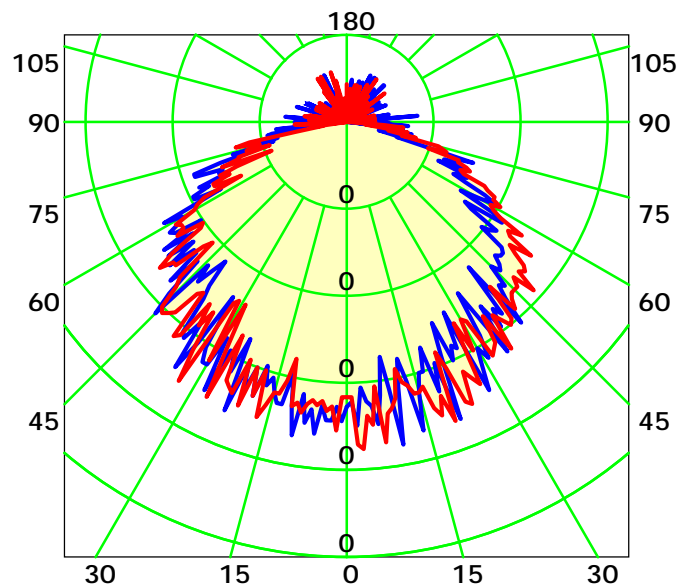
Central Intensity: 0.6 cd

Pos of Max. Intensity: H300 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 129.0° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

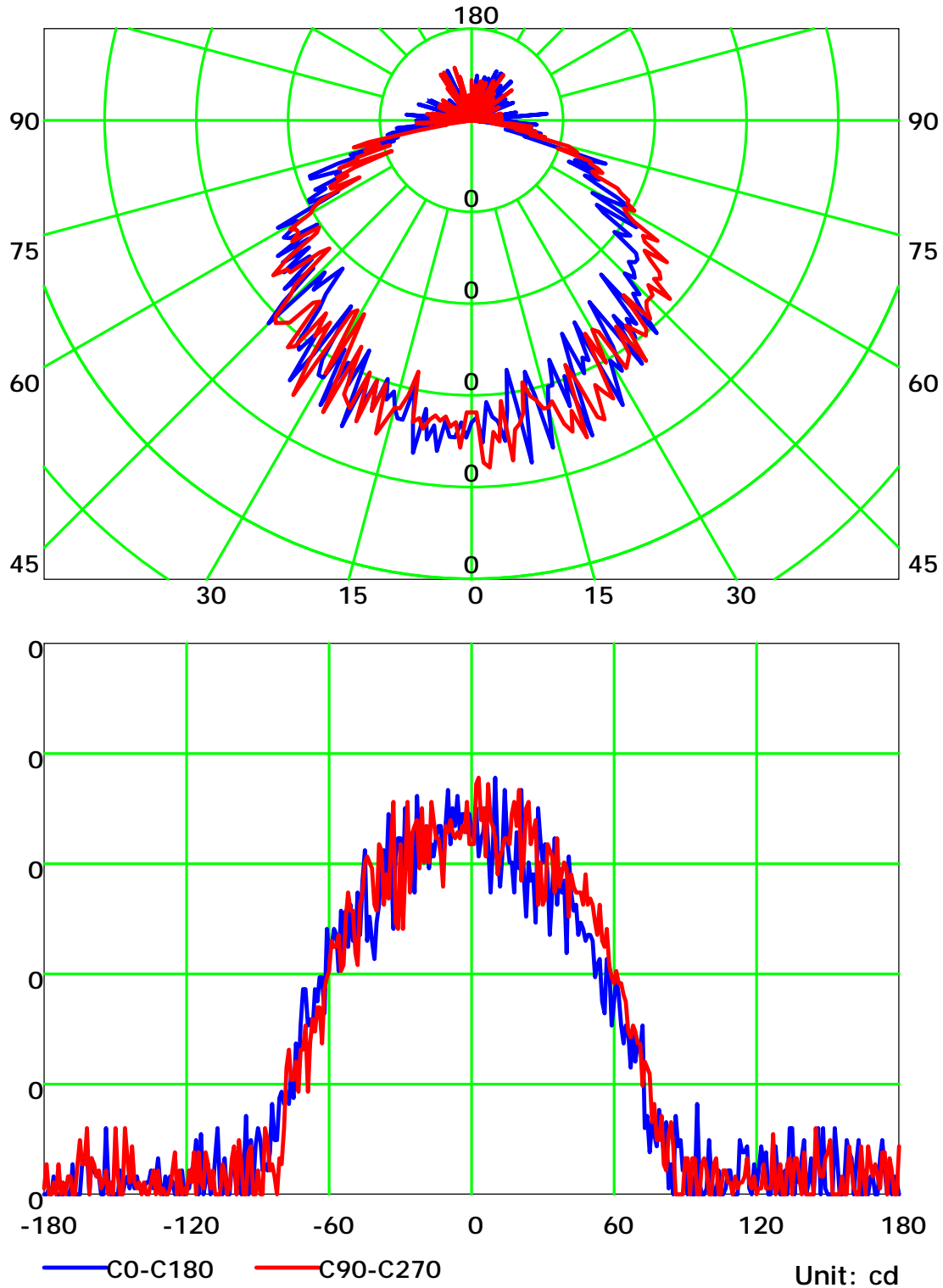
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

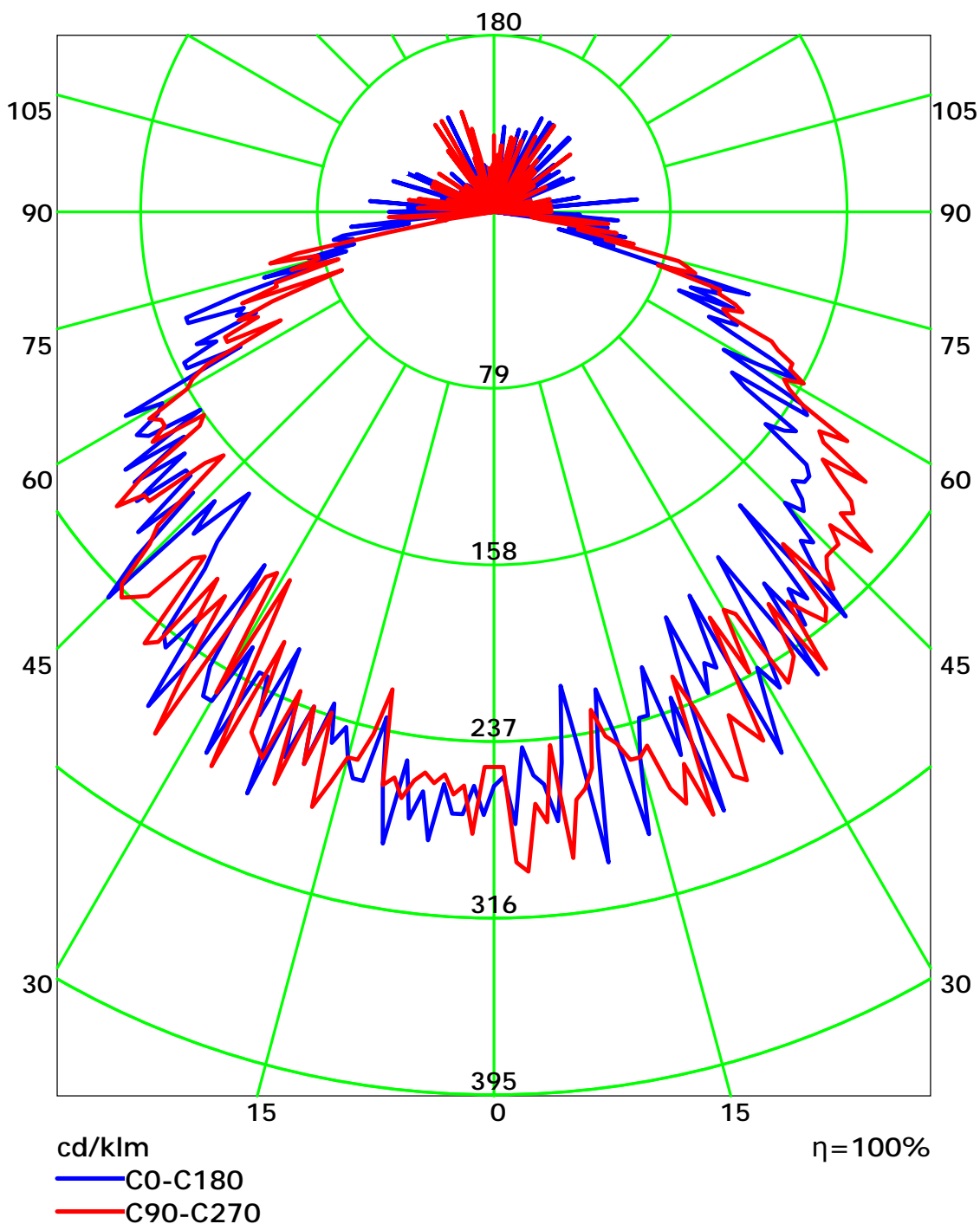
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0

Test Lab:

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:

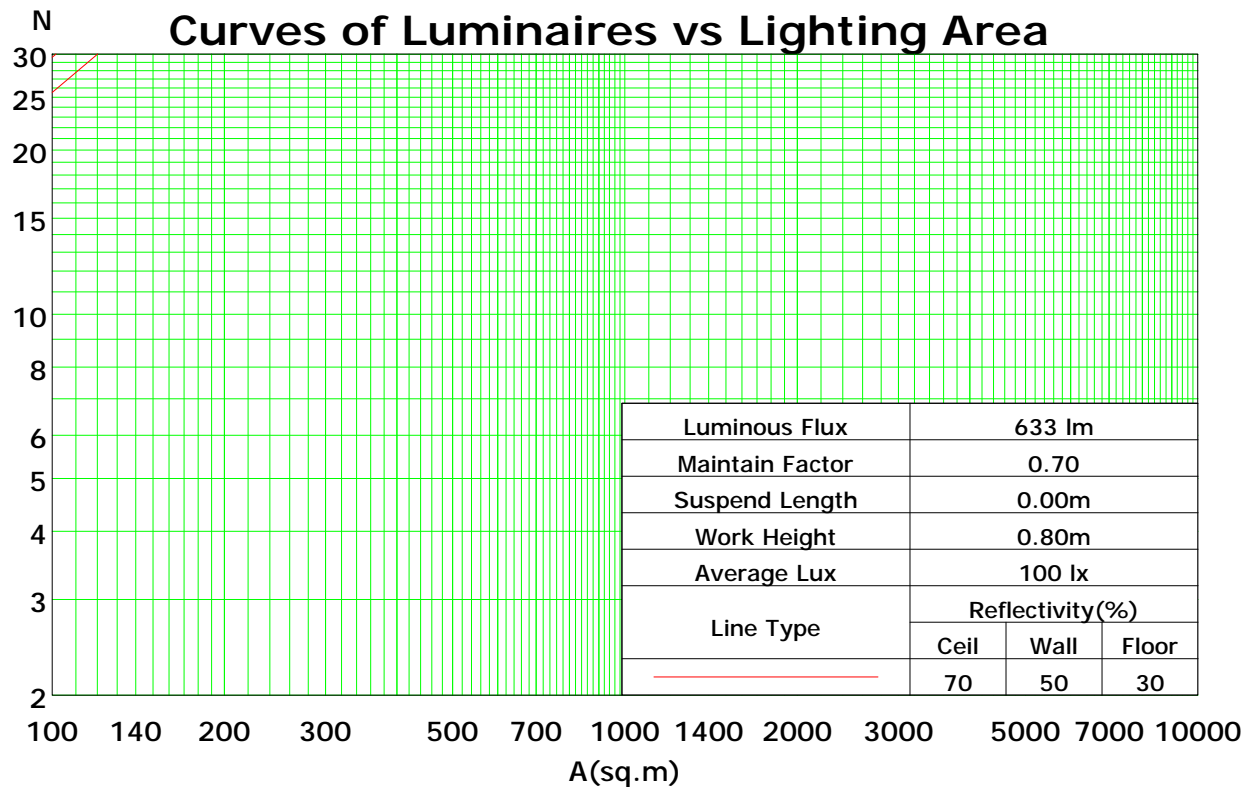
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	92
1	105	100	95	91	102	97	93	89	91	88	85	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	56	52	50
4	79	66	57	50	76	64	55	49	60	53	47	57	51	46	54	49	44	42
5	72	58	49	42	69	57	48	42	54	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	47	38	32	59	46	37	31	44	36	31	42	35	30	39	34	29	27
8	57	43	34	28	55	42	34	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.38

Spacing Criteria (Diagonal): 1.52



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

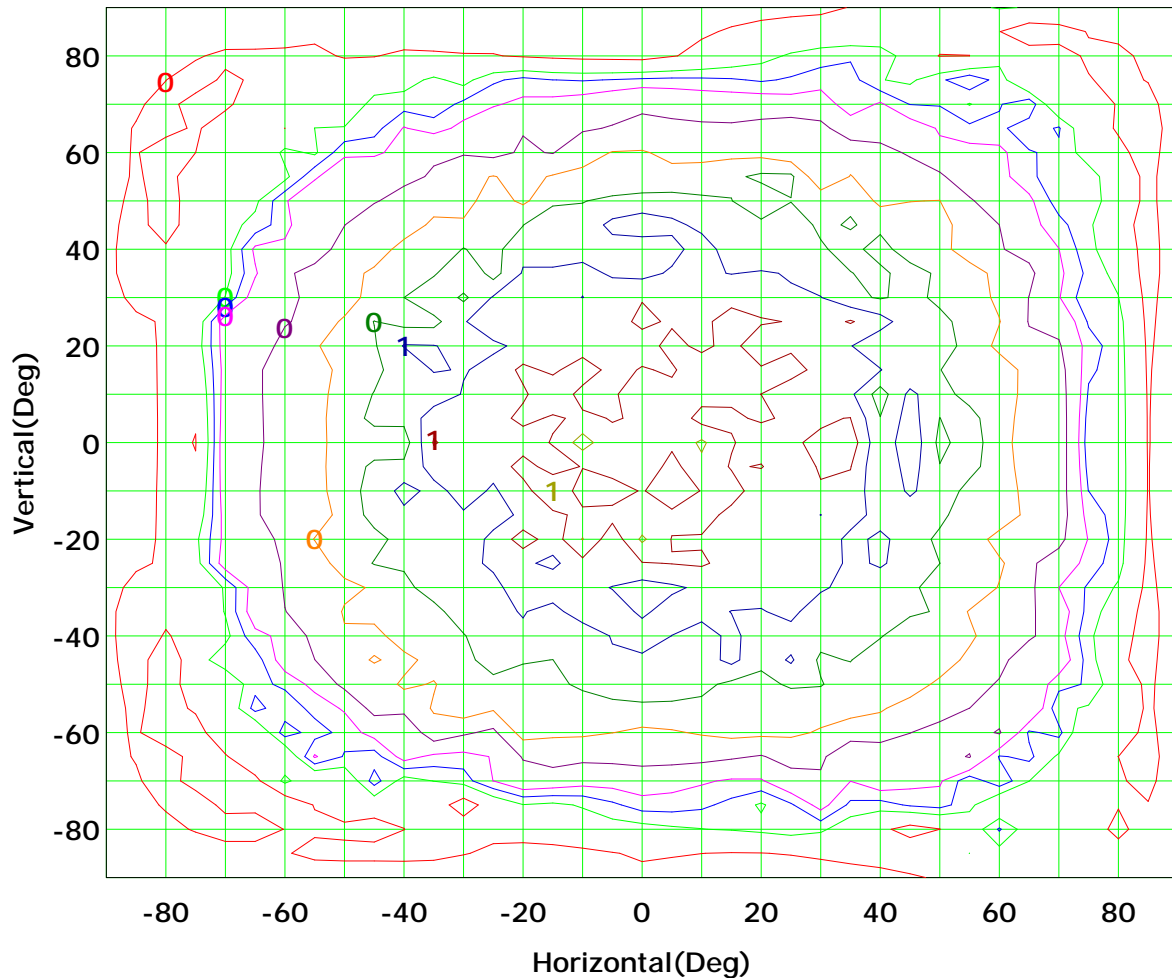
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 1 cd

(10%):	0 cd	(20%):	0 cd
(25%):	0 cd	(30%):	0 cd
(40%):	0 cd	(50%):	0 cd
(60%):	0 cd	(70%):	1 cd
(80%):	1 cd	(90%):	1 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

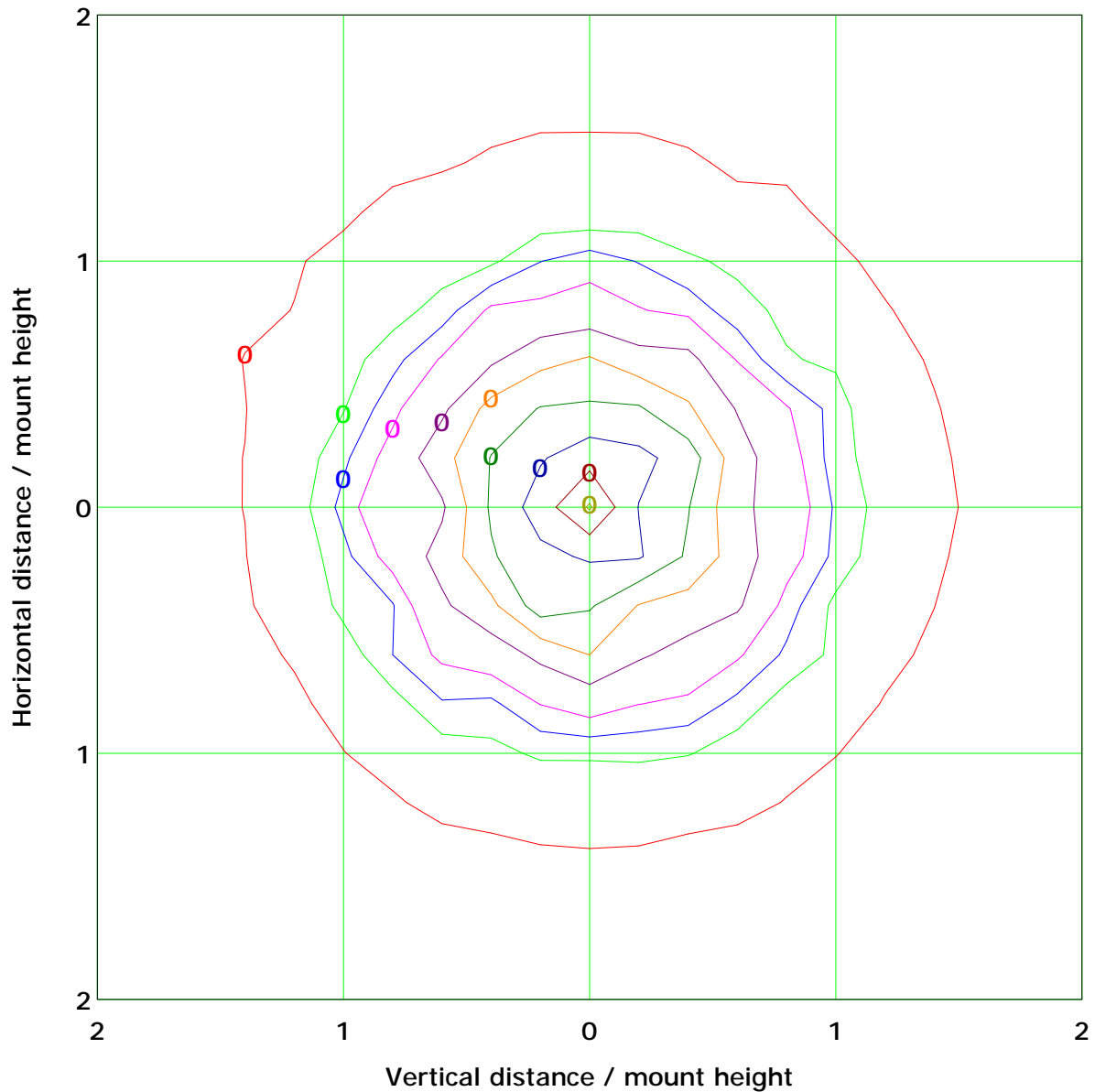
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

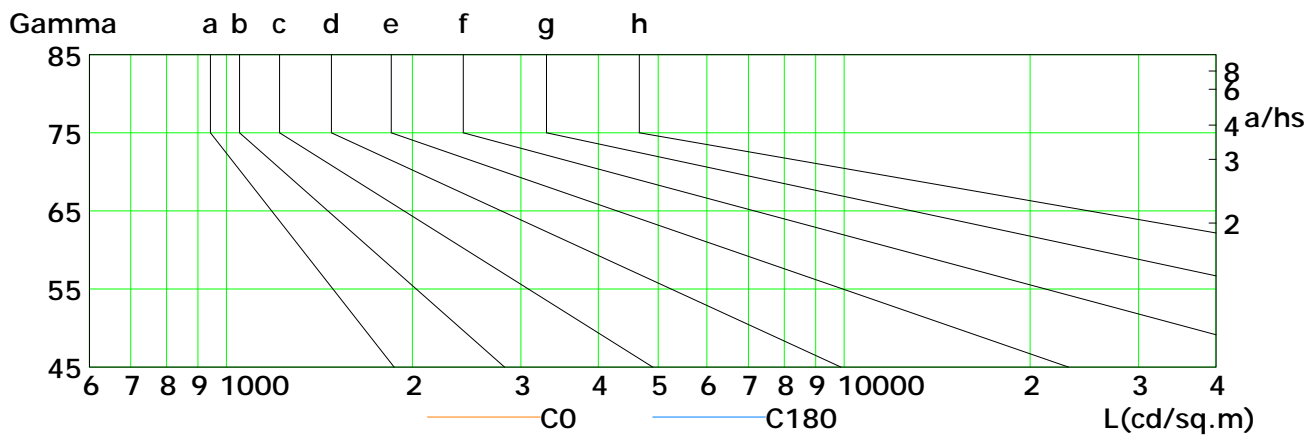
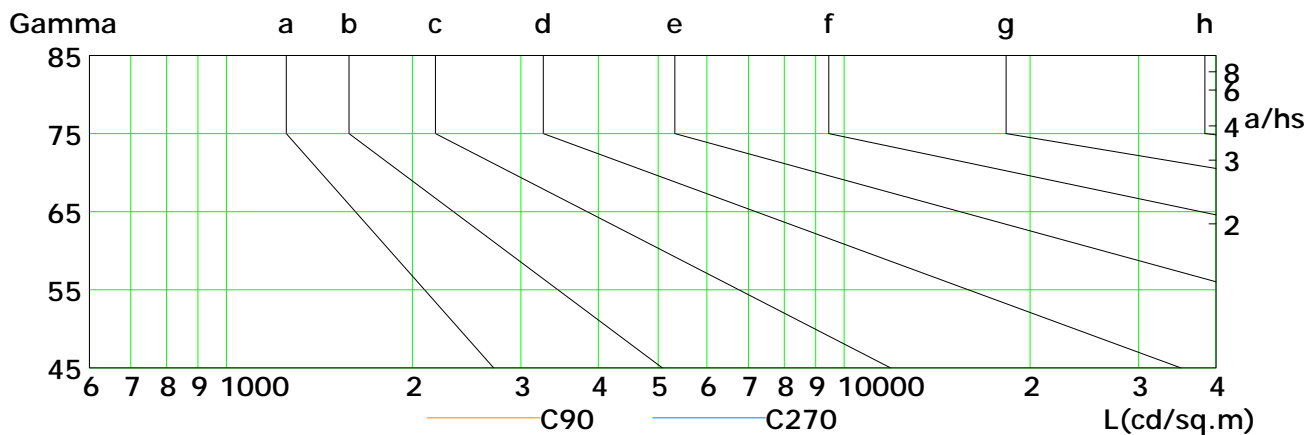
Humidity: 60%

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	203	216	174	190	185	189	62	108	0
C90	282	304	292	279	302	291	307	296	359
C180	269	211	255	238	212	257	142	183	98
C270	311	292	257	295	292	326	291	114	179

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

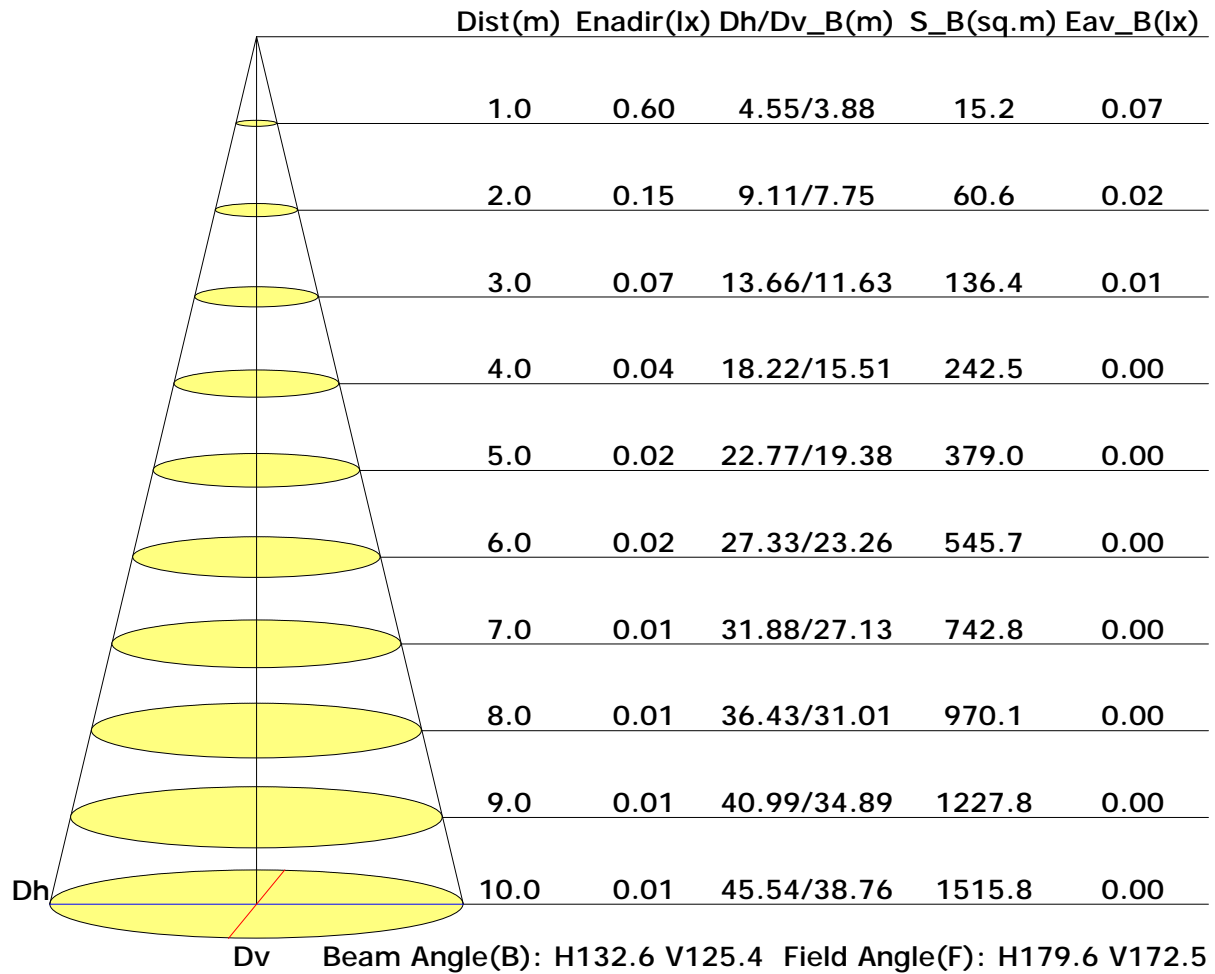
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

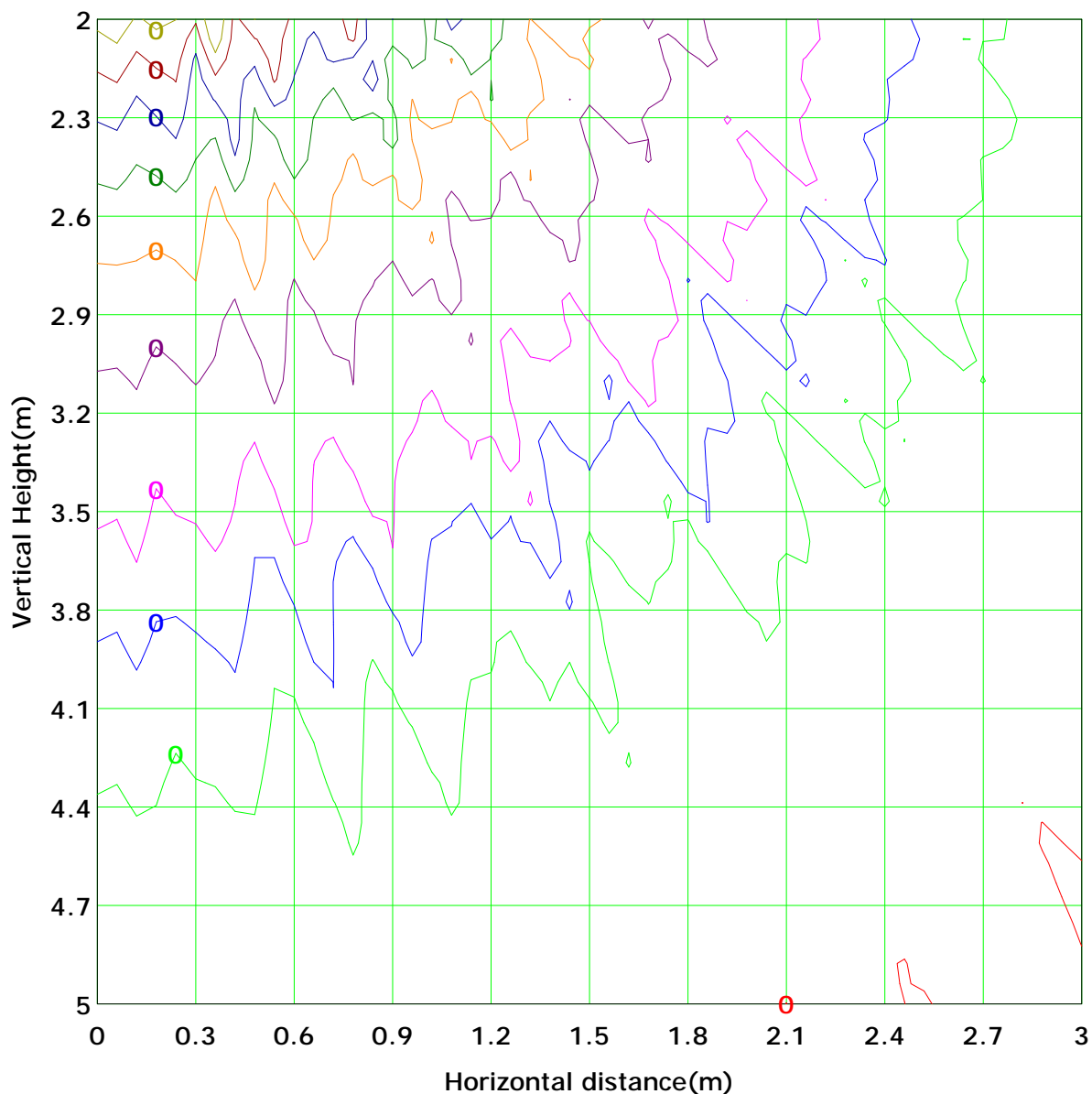
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 0.2 lx
(10%): 0.0 lx	(20%): 0.0 lx	
(25%): 0.0 lx	(30%): 0.0 lx	
(40%): 0.1 lx	(50%): 0.1 lx	
(60%): 0.1 lx	(70%): 0.1 lx	
(80%): 0.1 lx	(90%): 0.1 lx	

C Plane (°):0.0-360.0: 30.0

Test Lab:

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:

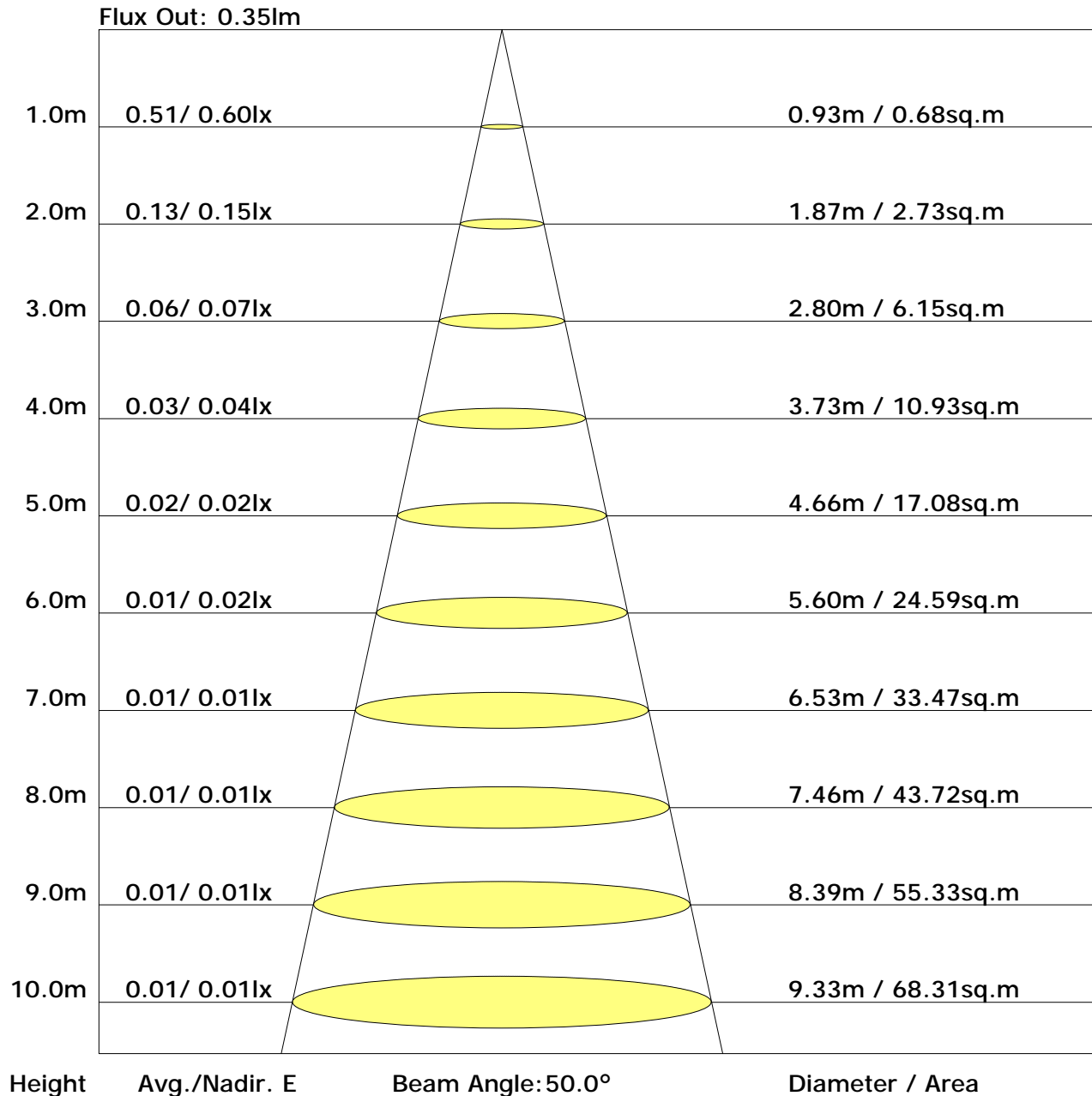
Area Flux Table

Unit: lm																		
Vertical plane																		
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flux(T)	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2
Flux(E)	0.0	0.0	0.1	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	2
Horizontal plane																		

C Plane (°):0.0-360.0: 30.0
Test Lab:
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



C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 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:

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	27.7	29.2	28.2	29.7	30.2	27.4	28.9	27.9	29.4	29.9
3H	29.7	31.1	30.2	31.6	32.1	29.4	30.8	29.9	31.2	31.8
4H	30.1	31.5	30.7	32.0	32.5	30.1	31.4	30.6	31.9	32.5
6H	30.6	31.9	31.2	32.4	33.0	30.5	31.7	31.0	32.2	32.8
8H	30.9	32.0	31.4	32.6	33.2	30.5	31.7	31.1	32.2	32.8
12H	30.9	32.0	31.5	32.6	33.2	30.7	31.8	31.3	32.4	33.0
X=4H Y=2H	28.3	29.6	28.8	30.1	30.7	28.3	29.6	28.8	30.1	30.7
3H	30.4	31.5	30.9	32.1	32.7	30.4	31.5	31.0	32.1	32.7
4H	31.1	32.1	31.7	32.7	33.3	31.2	32.2	31.7	32.7	33.4
6H	31.7	32.6	32.3	33.2	33.9	31.7	32.6	32.3	33.2	33.8
8H	32.0	32.9	32.6	33.4	34.1	31.8	32.6	32.4	33.2	33.9
12H	32.1	32.9	32.7	33.5	34.1	32.1	32.8	32.7	33.4	34.1
X=8H Y=4H	31.3	32.2	31.9	32.8	33.4	31.6	32.4	32.2	33.0	33.7
6H	32.2	32.9	32.8	33.5	34.2	32.4	33.1	33.0	33.7	34.4
8H	32.5	33.1	33.1	33.8	34.4	32.5	33.2	33.2	33.8	34.5
12H	32.7	33.2	33.3	33.9	34.6	32.8	33.4	33.5	34.0	34.8
X=12H Y=4H	31.4	32.1	32.0	32.7	33.4	31.7	32.5	32.3	33.1	33.7
6H	32.2	32.9	32.9	33.5	34.2	32.5	33.2	33.2	33.8	34.5
8H	32.6	33.2	33.2	33.8	34.5	32.7	33.2	33.3	33.9	34.6

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0

Test Lab:

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 = 1.50								
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	0.54	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00
	0.30		0.46	0.54	0.62	0.68	0.77	0.82	0.87	0.92	0.96
	0.20		0.40	0.48	0.56	0.62	0.71	0.77	0.82	0.88	0.93
0.50	0.50	0.20	0.52	0.60	0.67	0.72	0.79	0.83	0.87	0.91	0.94
	0.30		0.45	0.52	0.60	0.65	0.73	0.78	0.82	0.88	0.91
	0.20		0.39	0.47	0.55	0.60	0.68	0.74	0.78	0.84	0.88
0.30	0.50	0.20	0.49	0.57	0.63	0.68	0.75	0.79	0.82	0.86	0.89
	0.30		0.43	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86
	0.20		0.39	0.46	0.53	0.58	0.66	0.71	0.75	0.80	0.84
0.00	0.00	0.00	0.36	0.42	0.49	0.54	0.61	0.66	0.69	0.74	0.77
Rating:5W 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:
 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 = 1.50									
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	1.02	0.87	0.74	0.65	0.53	0.44	0.38	0.30	0.25	
	0.30		0.85	0.75	0.65	0.58	0.48	0.41	0.35	0.28	0.23	
	0.20		0.73	0.65	0.57	0.52	0.43	0.37	0.33	0.27	0.22	
0.50	0.50	0.20	0.96	0.82	0.70	0.61	0.50	0.44	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		0.71	0.63	0.55	0.50	0.42	0.36	0.31	0.25	0.21	
0.30	0.50	0.20	0.92	0.78	0.66	0.58	0.47	0.39	0.34	0.26	0.22	
	0.30		0.78	0.69	0.59	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	
0.00	0.00	0.00	0.57	0.51	0.44	0.39	0.32	0.27	0.24	0.19	0.16	
Rating:5W 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
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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 = 1.50								
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	0.25	0.27	0.27	0.28	0.29	0.29	0.30	0.30	0.31
	0.30		0.18	0.20	0.21	0.22	0.24	0.25	0.26	0.27	0.28
	0.20		0.13	0.14	0.16	0.17	0.19	0.21	0.22	0.24	0.25
0.50	0.50	0.20	0.24	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.29
	0.30		0.18	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27
	0.20		0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.23	0.24
0.30	0.50	0.20	0.23	0.25	0.25	0.26	0.27	0.27	0.27	0.28	0.28
	0.30		0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23
0.00	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Rating:5W 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:
 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: