

Report No.:

Test Time: 2018/10/31 11:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: MINI WALL WAHSER

Luminaire Description: MINIRGBW2424RGB6535TS (G)

Luminous Length (mm): 500

Luminous Width (mm): 50

Luminous Height (mm): 70

Voltage: 24.0 V

Current: 0.259 A

Power: 6.20 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 373.3 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H34.7

Vertical Diffuse Angle(50%): V34.7

Luminaire Efficacy Rating (LER): 60

Max. Intensity: 779.97 cd

Total Rated Lamp Lumens: 373.3 lm

Efficiency: 100%

Upward Ratio: 2%

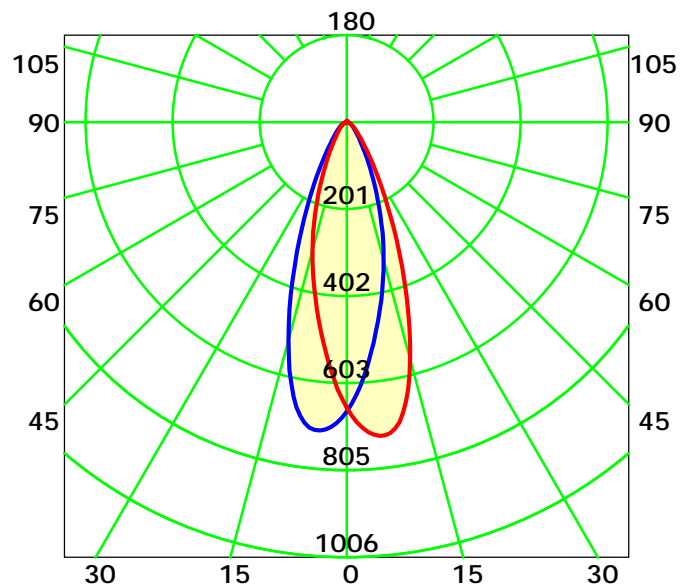
Central Intensity: 669.4 cd

Pos of Max. Intensity: H120 V8

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 34.7° 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

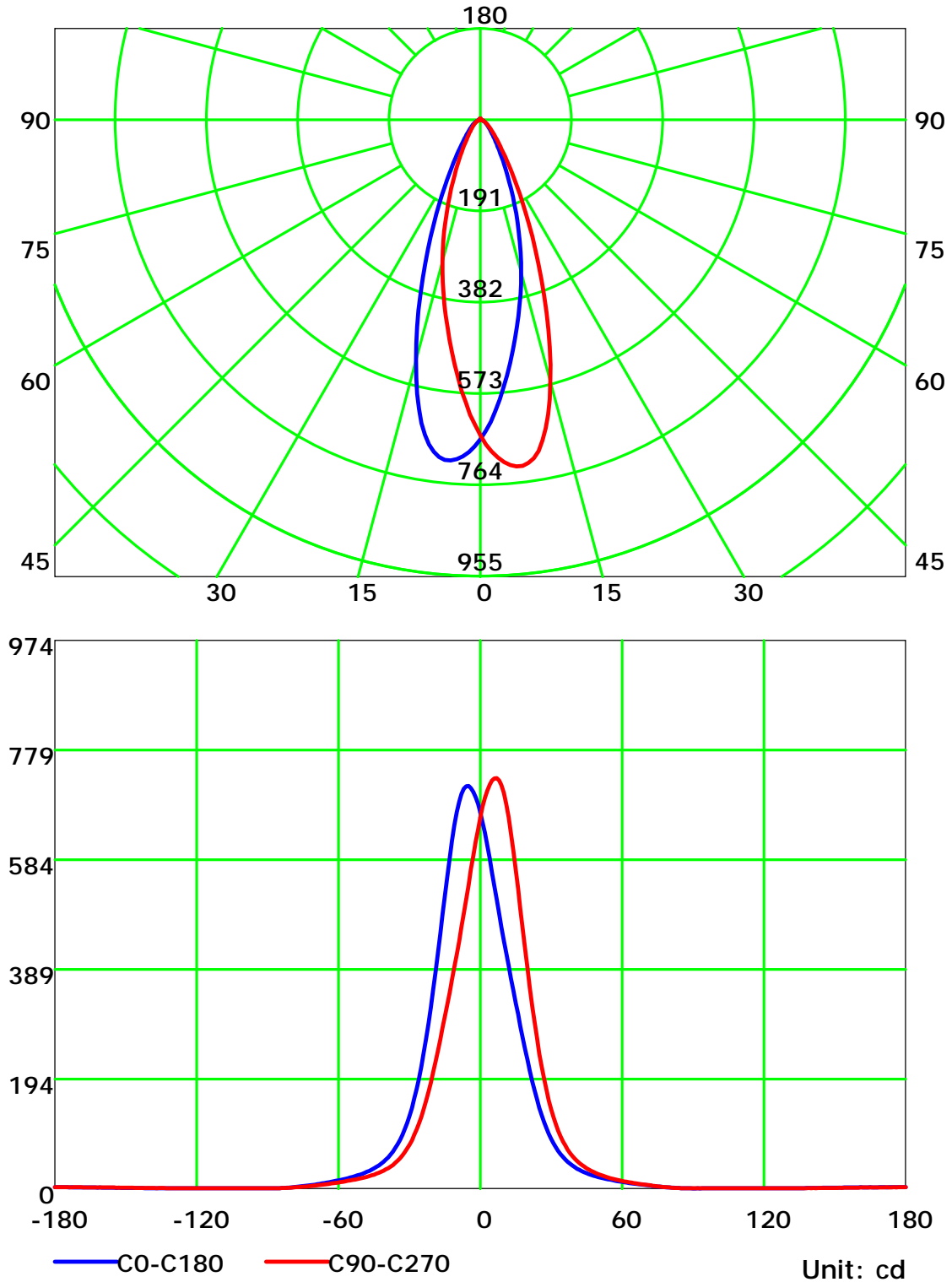
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

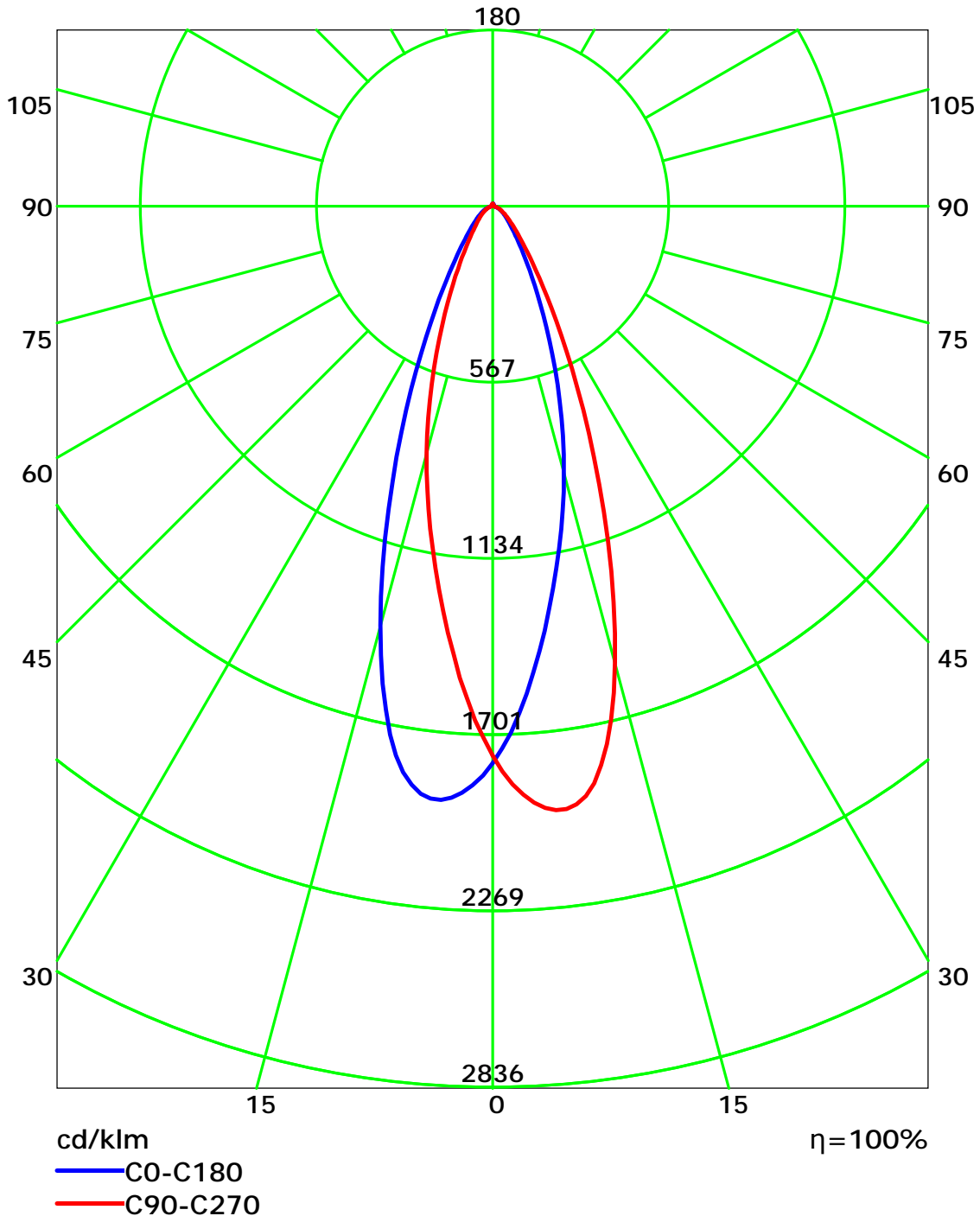
Luminous Intensity Distribution Curve



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:

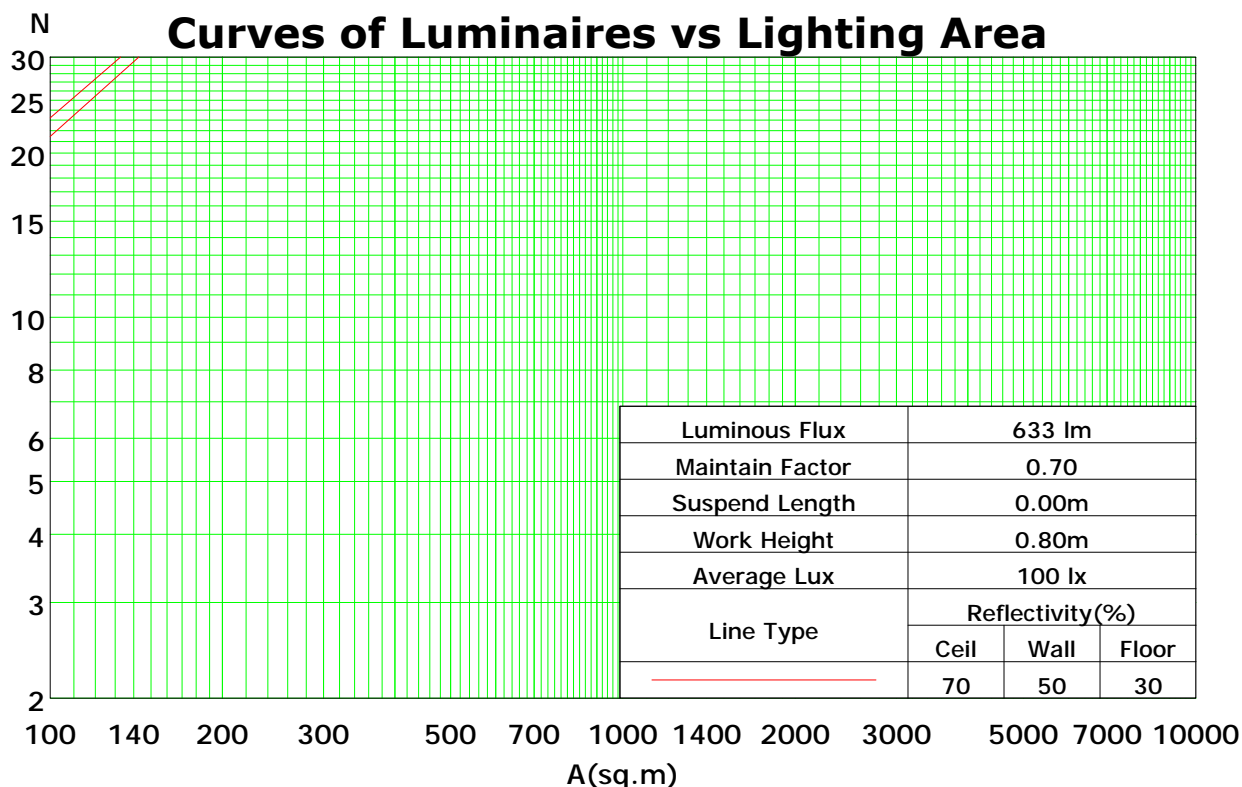
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	112	109	107	104	110	107	105	102	103	101	99	98	97	96	95	93	92	90
2	107	101	97	94	104	99	96	92	96	93	90	92	90	88	89	87	85	84
3	101	94	89	85	99	93	88	84	90	86	83	87	84	81	84	82	79	78
4	96	88	82	78	94	87	82	78	84	80	76	82	78	75	80	77	74	73
5	91	83	77	72	89	82	76	72	80	75	71	78	74	70	76	72	70	68
6	87	78	72	68	85	77	71	67	75	70	67	74	69	66	72	68	65	64
7	83	74	68	64	82	73	67	63	72	66	63	70	66	62	69	65	62	60
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	67	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	54
10	73	63	58	54	72	63	58	54	62	57	54	61	57	53	60	56	53	52

Spacing Criteria (0-180): 0.60

Spacing Criteria (90-270): 0.62

Spacing Criteria (Diagonal): 0.61



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

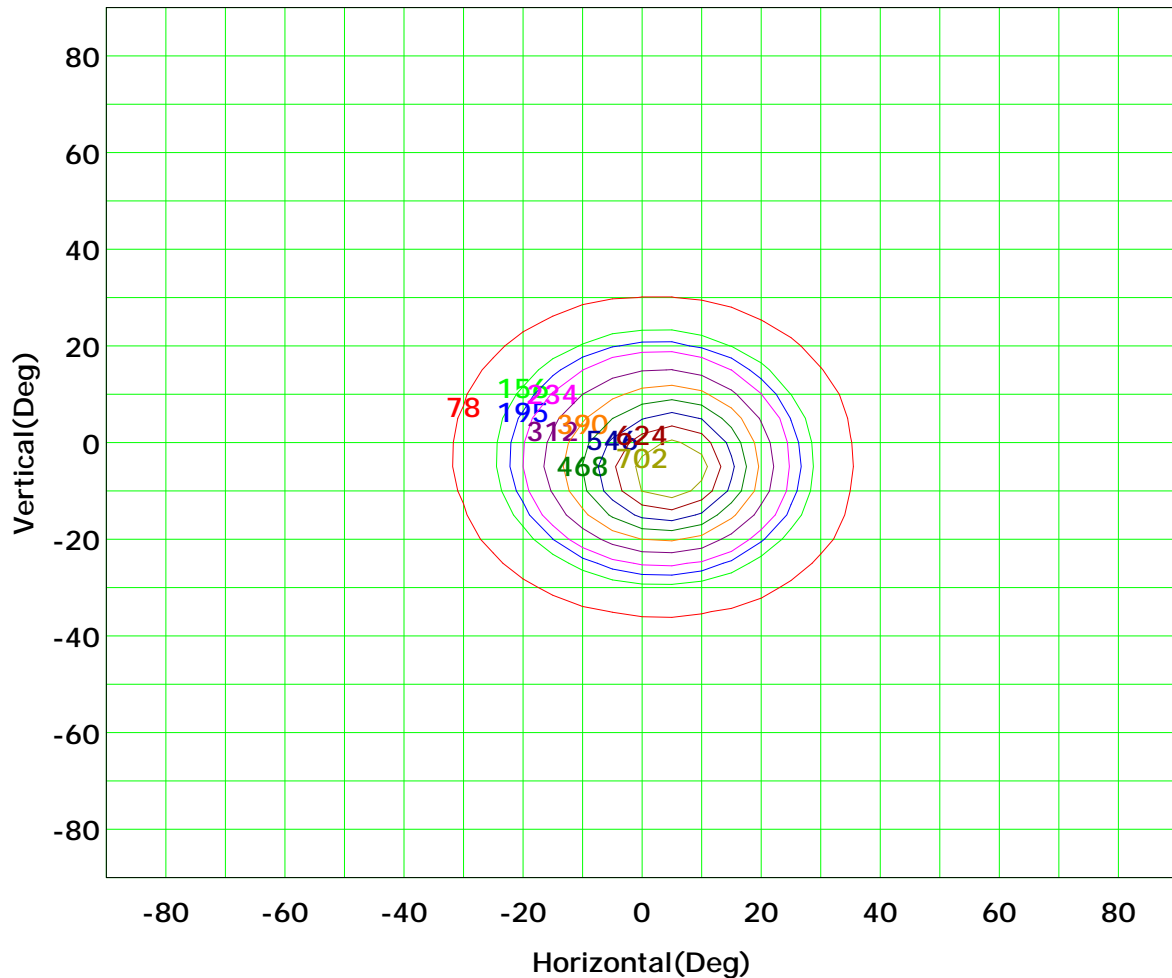
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 780 cd

(10%): 78 cd	(20%): 156 cd
(25%): 195 cd	(30%): 234 cd
(40%): 312 cd	(50%): 390 cd
(60%): 468 cd	(70%): 546 cd
(80%): 624 cd	(90%): 702 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

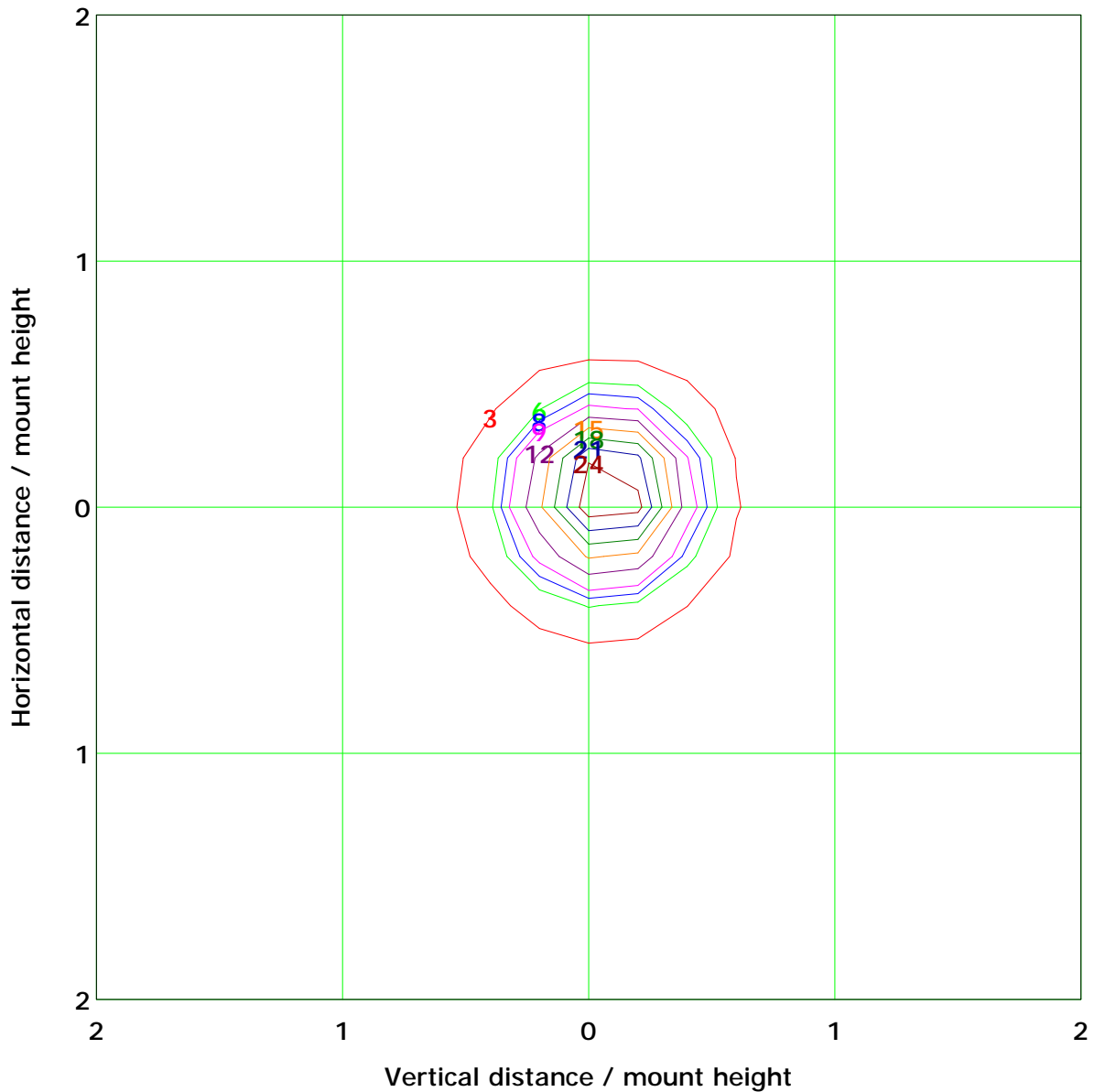
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 30.4 lx	
(10%): 3.0 lx	(20%): 6.1 lx
(25%): 7.6 lx	(30%): 9.1 lx
(40%): 12.2 lx	(50%): 15.2 lx
(60%): 18.2 lx	(70%): 21.3 lx
(80%): 24.3 lx	(90%): 27.4 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

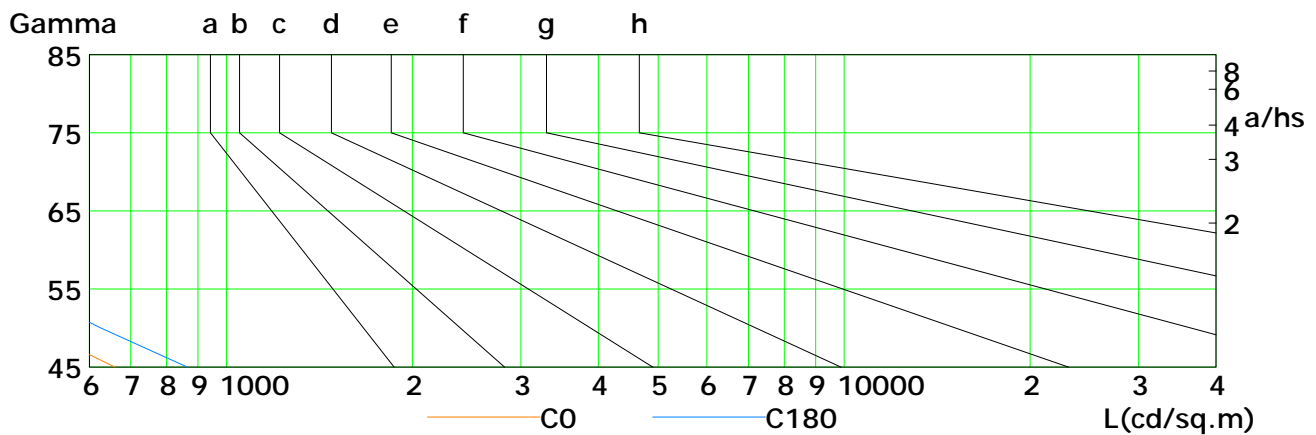
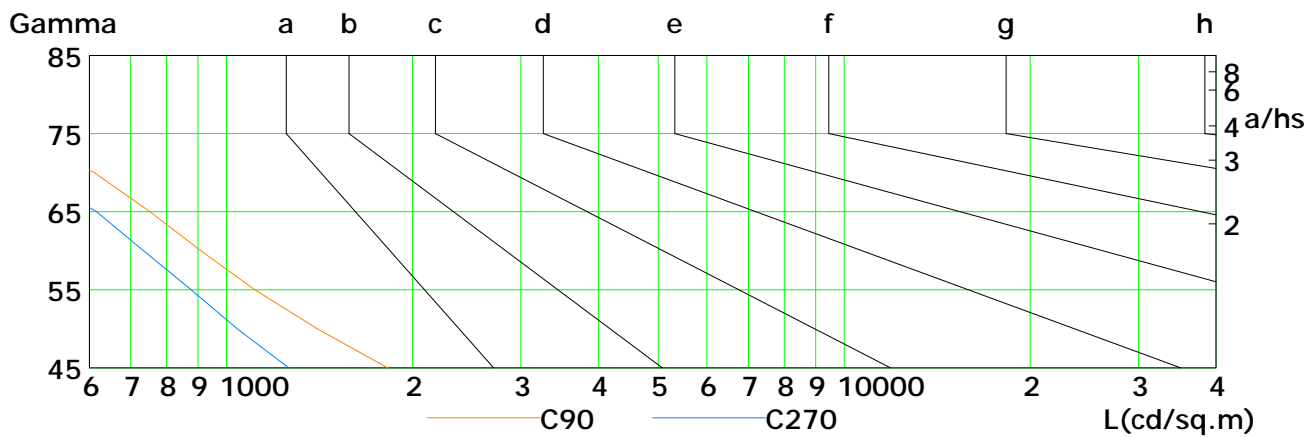
Humidity: 60%

Inspector:

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	661	492	381	295	223	163	107	63	33
C90	1826	1404	1113	909	752	612	477	324	229
C180	865	627	473	355	265	185	122	70	36
C270	1262	1042	878	735	617	489	402	288	212

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

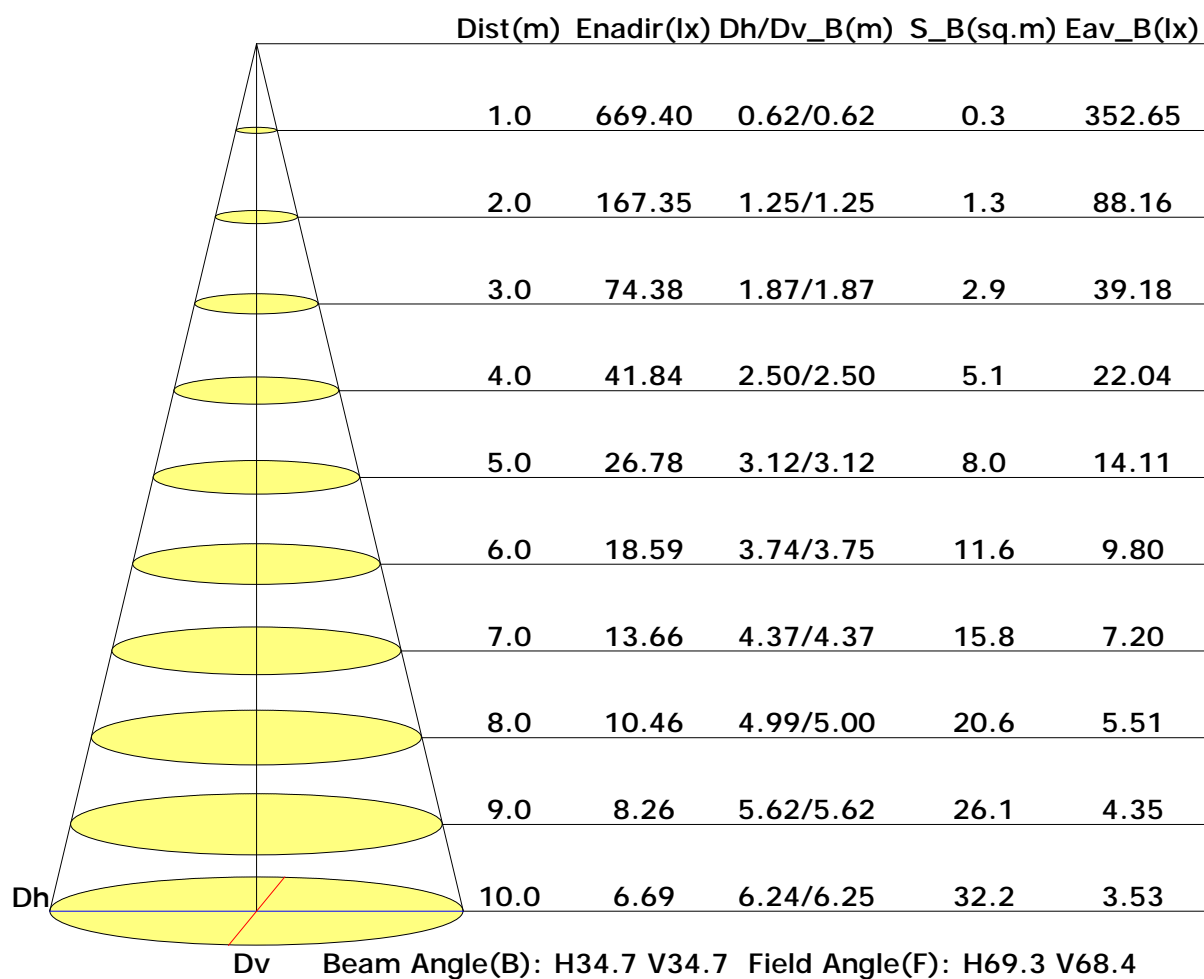
Test Device: GPM-1800B

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

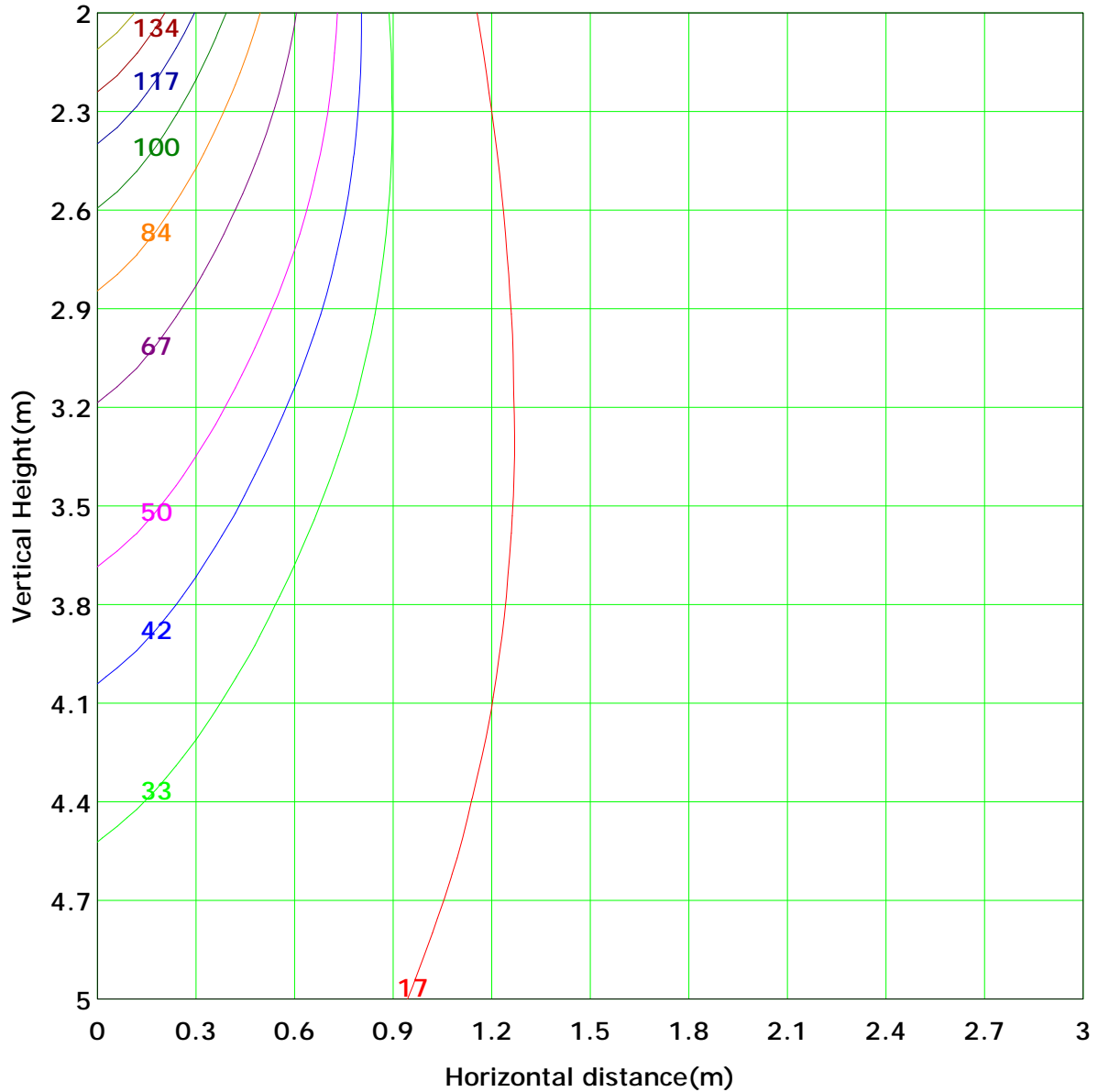
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 167.4 lx
(10%): 16.7 lx	(20%): 33.5 lx	
(25%): 41.8 lx	(30%): 50.2 lx	
(40%): 66.9 lx	(50%): 83.7 lx	
(60%): 100.4 lx	(70%): 117.1 lx	
(80%): 133.9 lx	(90%): 150.6 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%

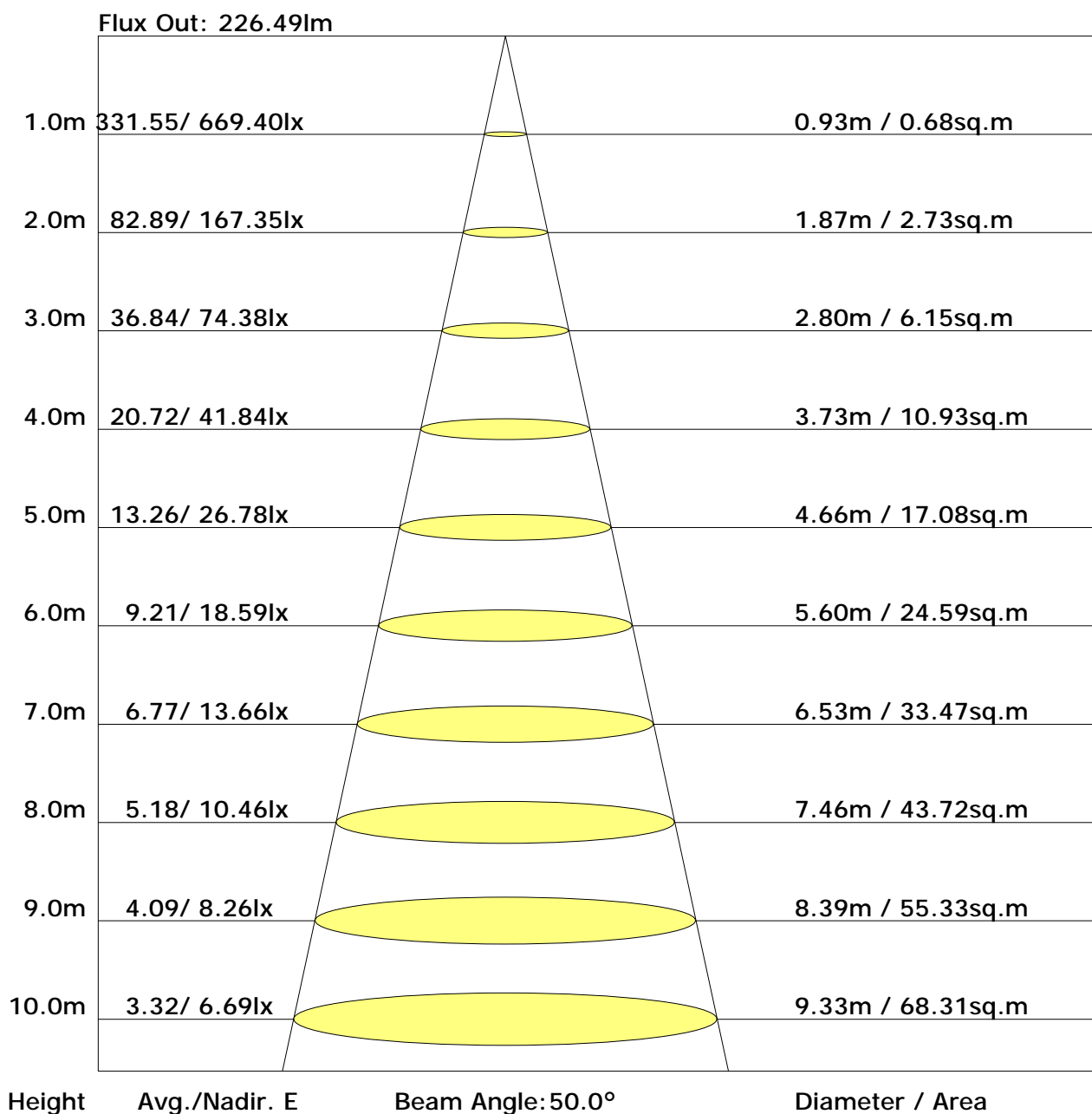
Inspector:

Unit: 1m

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



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	9.0	10.1	9.4	10.5	10.8	8.3	9.4	8.7	9.7	10.1
3H	10.2	11.2	10.7	11.6	12.0	9.1	10.1	9.5	10.4	10.9
4H	10.6	11.5	11.1	11.9	12.3	9.3	10.2	9.7	10.6	11.0
6H	10.8	11.6	11.3	12.1	12.5	9.3	10.1	9.8	10.6	11.0
8H	10.9	11.6	11.3	12.1	12.5	9.3	10.1	9.8	10.5	11.0
12H	10.9	11.6	11.4	12.1	12.5	9.3	10.0	9.8	10.5	10.9
X=4H Y=2H	9.2	10.0	9.6	10.4	10.9	8.6	9.5	9.1	9.9	10.4
3H	10.5	11.2	10.9	11.7	12.1	9.6	10.3	10.0	10.8	11.2
4H	10.9	11.5	11.4	12.0	12.5	9.8	10.5	10.3	10.9	11.4
6H	11.2	11.7	11.7	12.2	12.8	9.9	10.5	10.4	11.0	11.5
8H	11.2	11.8	11.8	12.3	12.8	9.9	10.4	10.4	10.9	11.5
12H	11.3	11.7	11.8	12.3	12.8	9.9	10.3	10.4	10.9	11.4
X=8H Y=4H	10.9	11.4	11.4	11.9	12.4	9.9	10.4	10.4	10.9	11.4
6H	11.2	11.6	11.7	12.1	12.7	10.0	10.4	10.6	11.0	11.5
8H	11.3	11.6	11.8	12.2	12.8	10.0	10.4	10.6	11.0	11.5
12H	11.4	11.7	11.9	12.2	12.9	10.0	10.4	10.6	10.9	11.5
X=12H Y=4H	10.8	11.3	11.3	11.8	12.3	9.9	10.3	10.4	10.8	11.4
6H	11.1	11.5	11.7	12.0	12.6	10.0	10.4	10.6	10.9	11.5
8H	11.3	11.6	11.8	12.1	12.7	10.0	10.4	10.6	10.9	11.5

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 = 0.75								
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	0.82	0.89	0.93	0.96	1.00	1.03	1.05	1.08	1.10
	0.30		0.77	0.84	0.88	0.92	0.97	1.00	1.02	1.05	1.07
	0.20		0.74	0.80	0.85	0.89	0.94	0.97	1.00	1.03	1.06
0.50	0.50	0.20	0.81	0.87	0.91	0.93	0.97	1.00	1.01	1.04	1.05
	0.30		0.76	0.83	0.87	0.90	0.94	0.97	0.99	1.02	1.03
	0.20		0.73	0.79	0.84	0.87	0.92	0.95	0.97	1.00	1.02
0.30	0.50	0.20	0.79	0.85	0.88	0.91	0.94	0.96	0.98	1.00	1.01
	0.30		0.76	0.81	0.85	0.88	0.92	0.94	0.96	0.98	1.00
	0.20		0.73	0.79	0.83	0.86	0.90	0.92	0.94	0.97	0.98
0.00	0.00	0.00	0.71	0.76	0.80	0.83	0.86	0.88	0.90	0.92	0.93
<p>Rating: 6W 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 = 0.75								
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	0.62	0.50	0.43	0.37	0.29	0.24	0.21	0.16	0.13
	0.30		0.51	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.12
	0.20		0.44	0.38	0.33	0.29	0.24	0.20	0.18	0.14	0.12
0.50	0.50	0.20	0.58	0.47	0.40	0.34	0.27	0.26	0.19	0.15	0.12
	0.30		0.49	0.41	0.35	0.31	0.25	0.21	0.18	0.14	0.11
	0.20		0.43	0.36	0.31	0.28	0.23	0.19	0.17	0.13	0.11
0.30	0.50	0.20	0.55	0.44	0.37	0.32	0.25	0.20	0.17	0.13	0.11
	0.30		0.47	0.39	0.33	0.29	0.23	0.19	0.16	0.13	0.10
	0.20		0.41	0.35	0.30	0.26	0.21	0.18	0.15	0.12	0.10
0.00	0.00	0.00	0.28	0.22	0.19	0.16	0.13	0.10	0.09	0.07	0.06
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75									
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	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	
	0.30		0.11	0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	
	0.20		0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.19	0.20	
0.50	0.50	0.20	0.15	0.16	0.18	0.18	0.20	0.20	0.21	0.22	0.22	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.08	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20	
0.30	0.50	0.20	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.11	0.13	0.14	0.15	0.16	0.18	0.18	0.19	0.20	
	0.20		0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	
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:6W 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>												