

Report No.:

Test Time: 2018/10/31 11:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: MINI WALL WAHSE

Luminaire Description: MINIRGBW2424RGB6535TS (B)

Luminous Length (mm): 500

Luminous Width (mm): 50

Luminous Height (mm): 70

Voltage: 24.0 V

Current: 0.297 A

Power: 7.13 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 64.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H35.8

Vertical Diffuse Angle(50%): V35.5

Luminaire Efficacy Rating (LER): 9

Max. Intensity: 130.34 cd

Total Rated Lamp Lumens: 64.4 lm

Efficiency: 100%

Upward Ratio: 1%

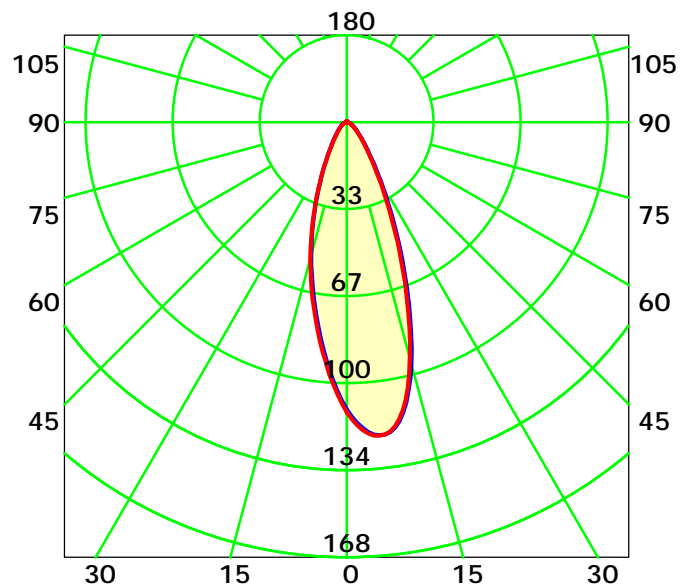
Central Intensity: 110.99 cd

Pos of Max. Intensity: H30 V8

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 35.6° 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

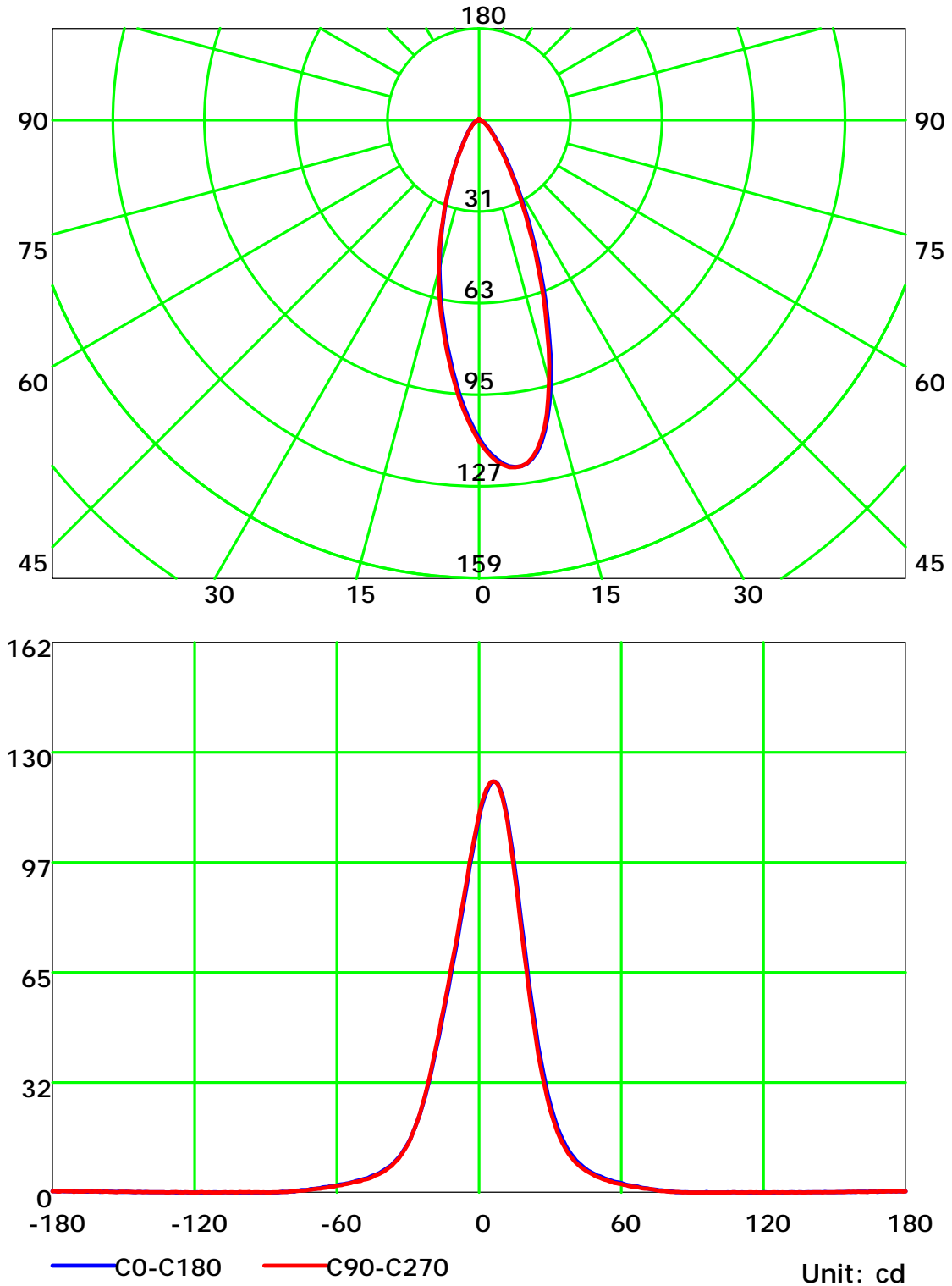
Test Device: GPM-1800B

Distance: 9.028 m

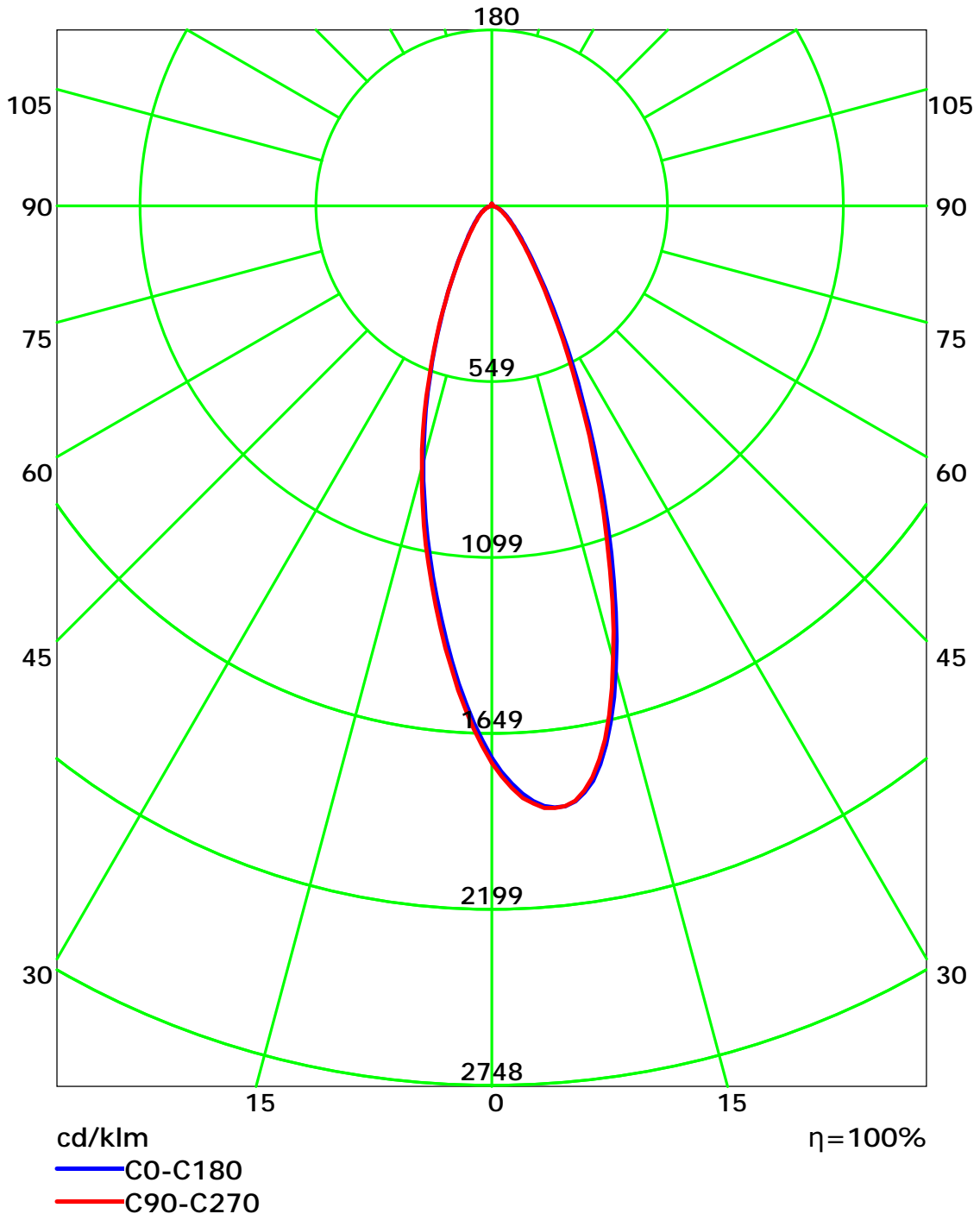
Humidity: 60%

Inspector:

Luminous Intensity Distribution Curve



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:

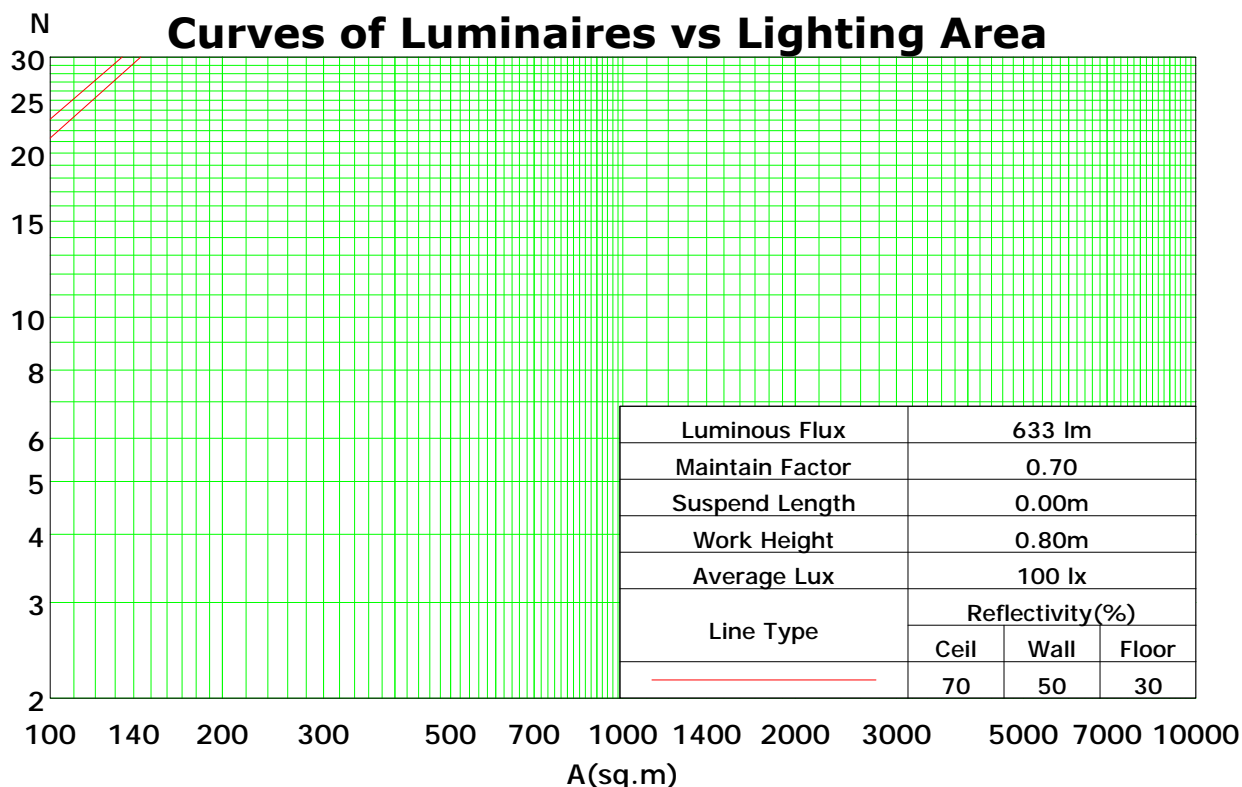
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	113	110	107	105	110	108	105	103	103	102	100	100	98	97	96	95	94	92
2	107	102	98	94	105	100	96	93	97	93	91	93	91	89	91	88	87	85
3	101	95	90	86	99	93	89	85	91	87	83	88	85	82	86	83	80	79
4	96	89	83	79	94	87	82	78	85	81	77	83	79	76	81	78	75	73
5	92	83	77	73	90	82	77	72	80	75	72	78	74	71	77	73	70	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	69	65	62	61
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55
10	73	64	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52

Spacing Criteria (0-180): 0.63

Spacing Criteria (90-270): 0.62

Spacing Criteria (Diagonal): 0.63



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

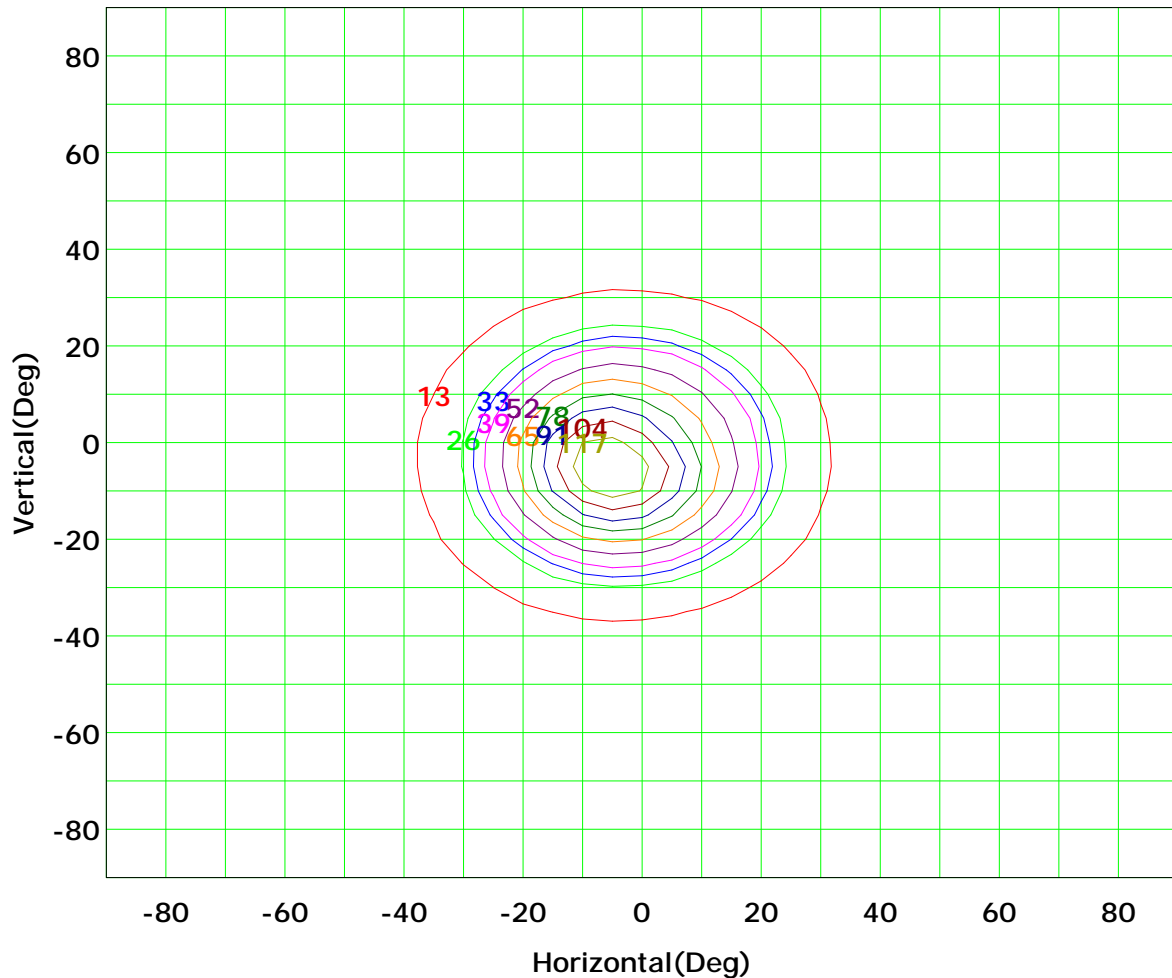
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 130 cd

(10%):	13 cd	(20%):	26 cd
(25%):	33 cd	(30%):	39 cd
(40%):	52 cd	(50%):	65 cd
(60%):	78 cd	(70%):	91 cd
(80%):	104 cd	(90%):	117 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

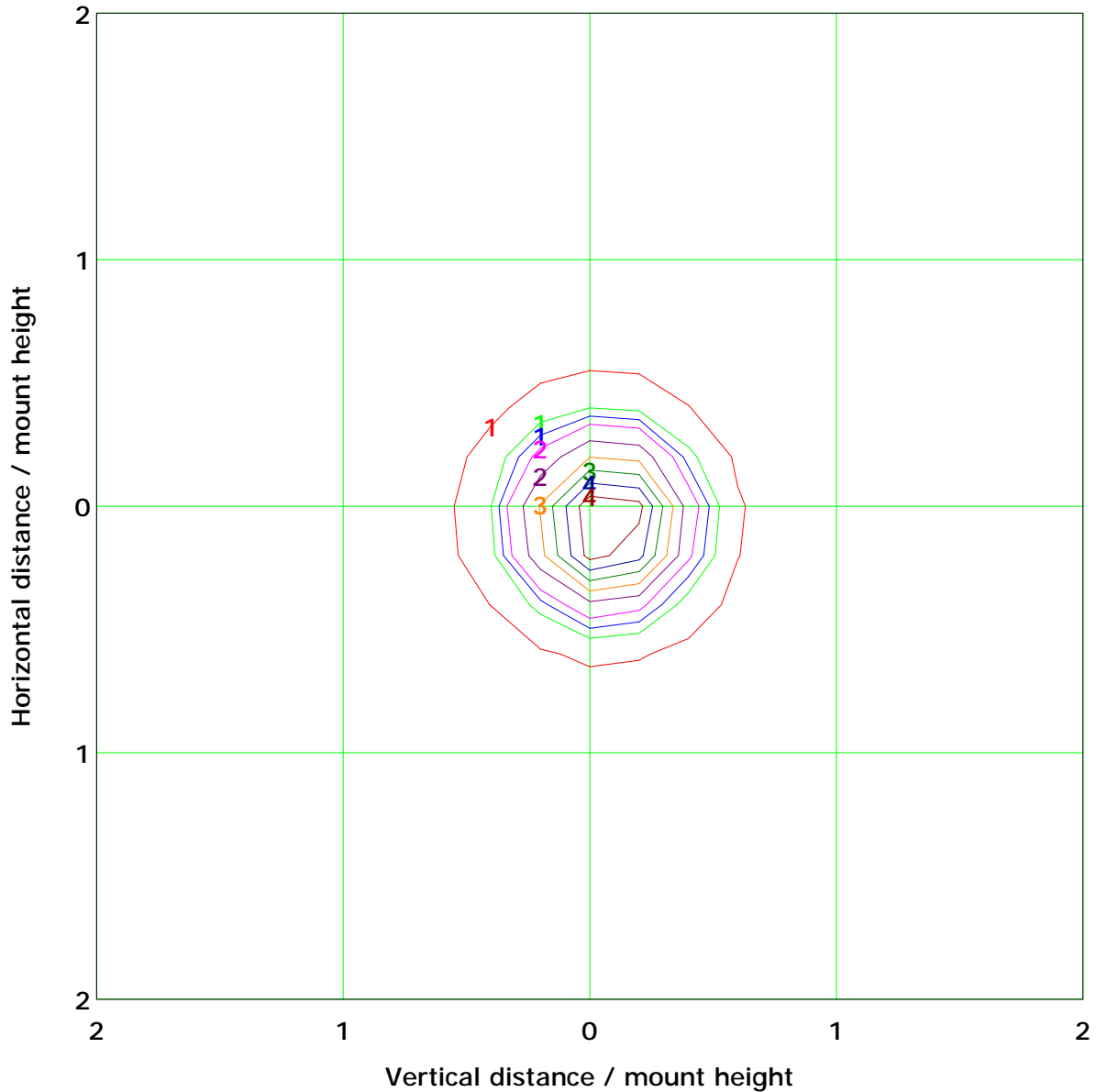
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 5.1 lx

(10%): 0.5 lx	(20%): 1.0 lx
(25%): 1.3 lx	(30%): 1.5 lx
(40%): 2.0 lx	(50%): 2.5 lx
(60%): 3.0 lx	(70%): 3.6 lx
(80%): 4.1 lx	(90%): 4.6 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

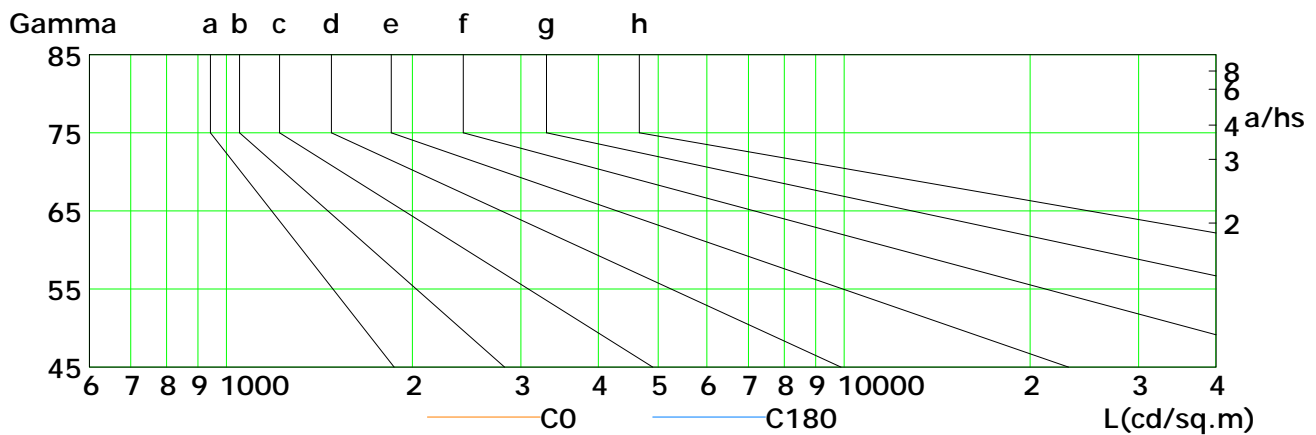
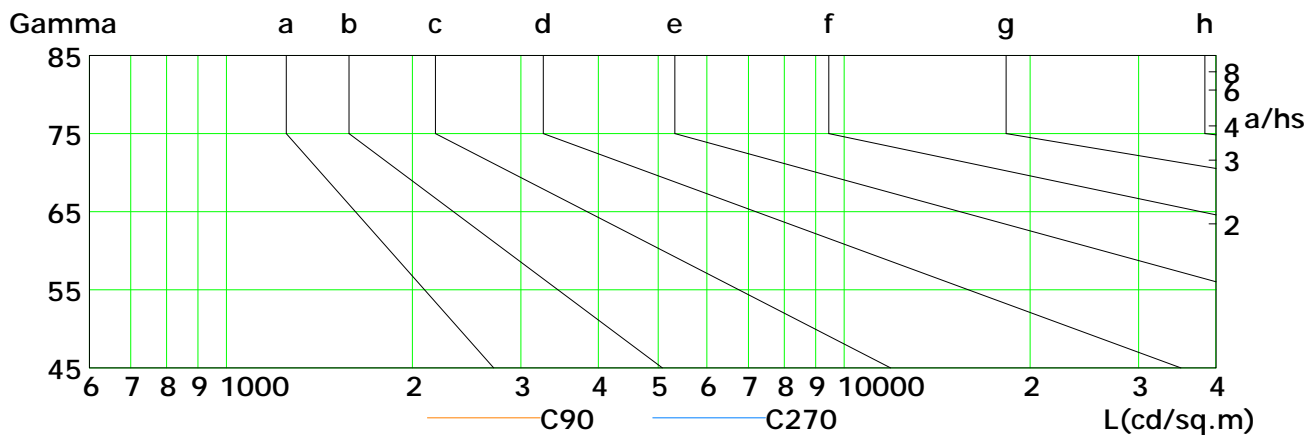
Humidity: 60%

Inspector:

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	167	118	87	66	47	32	20	8	4
C90	325	246	192	160	126	101	66	40	18
C180	117	87	65	50	38	26	18	7	0
C270	229	182	157	130	102	84	59	36	23

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

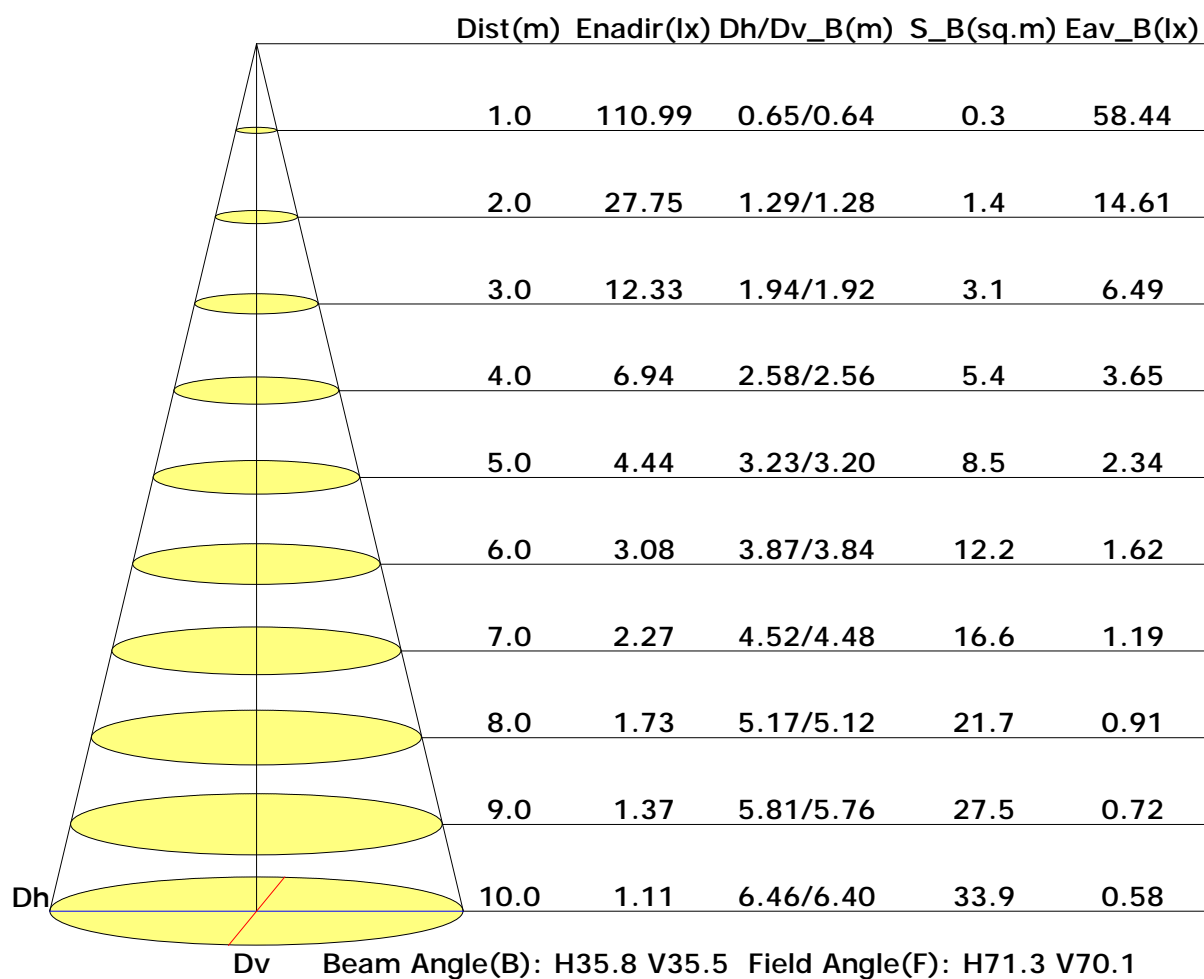
Test Device: GPM-1800B

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

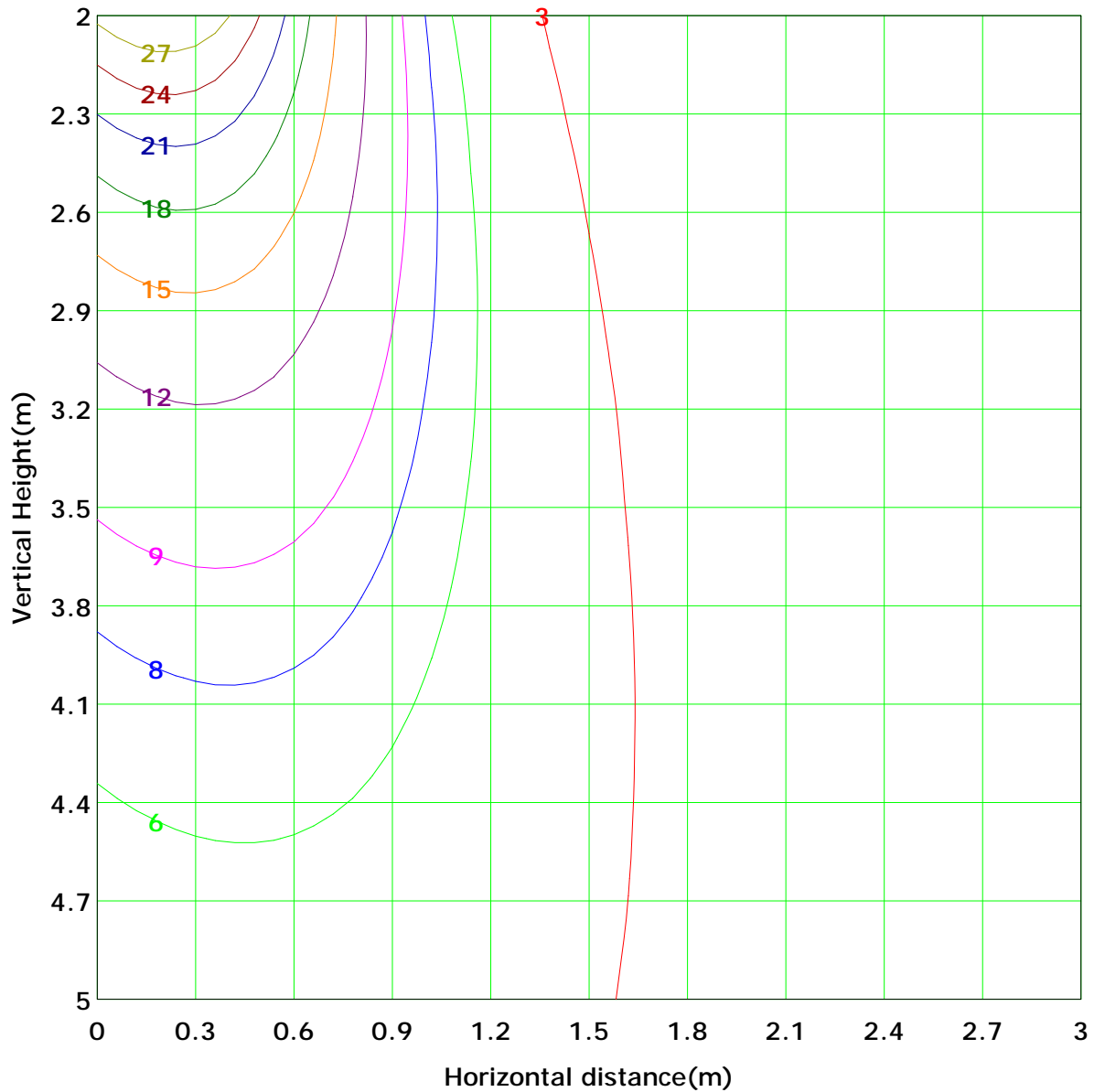
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 30.1 lx
(10%): 3.0 lx	(20%): 6.0 lx	
(25%): 7.5 lx	(30%): 9.0 lx	
(40%): 12.0 lx	(50%): 15.0 lx	
(60%): 18.0 lx	(70%): 21.1 lx	
(80%): 24.1 lx	(90%): 27.1 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%

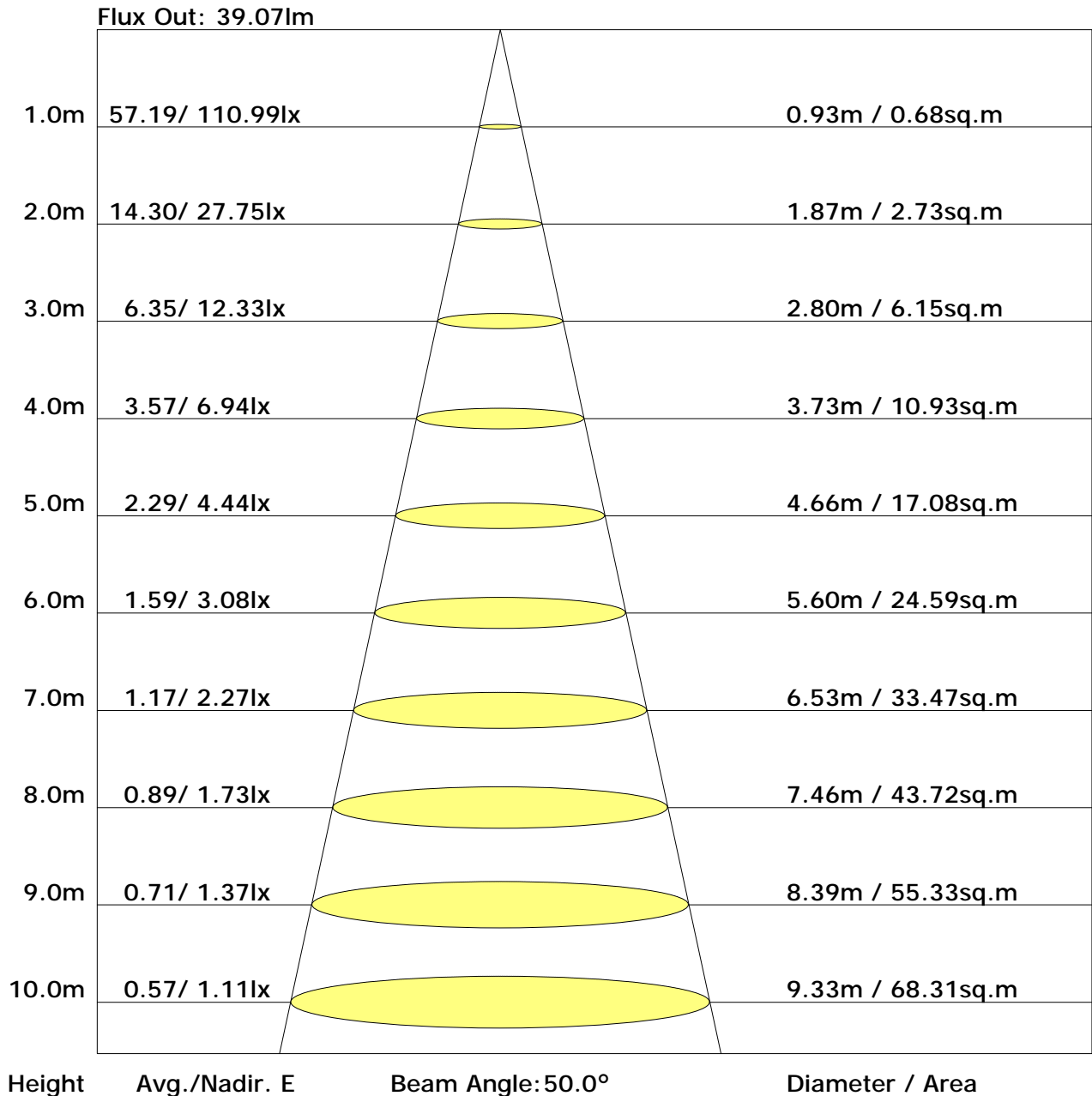
Inspector:

Unit: 1m

Horizontal plane

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	10.7	11.8	11.1	12.1	12.5	8.4	9.5	8.8	9.8	10.2
3H	11.7	12.7	12.1	13.0	13.4	9.1	10.0	9.5	10.4	10.8
4H	12.0	12.9	12.4	13.2	13.6	9.2	10.1	9.7	10.5	10.9
6H	12.1	12.9	12.5	13.3	13.7	9.2	10.0	9.7	10.4	10.9
8H	12.1	12.8	12.5	13.2	13.7	9.2	10.0	9.6	10.4	10.8
12H	12.0	12.8	12.5	13.2	13.6	9.1	9.9	9.6	10.3	10.7
X=4H Y=2H	10.7	11.6	11.2	12.0	12.4	8.7	9.6	9.1	10.0	10.4
3H	11.8	12.6	12.3	13.0	13.4	9.5	10.2	9.9	10.7	11.1
4H	12.1	12.8	12.6	13.2	13.7	9.7	10.3	10.1	10.8	11.3
6H	12.3	12.8	12.8	13.3	13.8	9.7	10.3	10.2	10.7	11.2
8H	12.3	12.8	12.8	13.3	13.8	9.7	10.2	10.2	10.7	11.2
12H	12.2	12.7	12.7	13.2	13.7	9.6	10.1	10.1	10.6	11.1
X=8H Y=4H	12.1	12.6	12.6	13.0	13.5	9.7	10.2	10.2	10.7	11.2
6H	12.2	12.6	12.7	13.1	13.7	9.7	10.2	10.3	10.7	11.2
8H	12.2	12.6	12.8	13.1	13.6	9.7	10.1	10.3	10.6	11.1
12H	12.2	12.5	12.7	13.0	13.6	9.7	10.0	10.2	10.5	11.1
X=12H Y=4H	12.0	12.5	12.5	13.0	13.5	9.7	10.1	10.2	10.6	11.1
6H	12.2	12.5	12.7	13.0	13.6	9.7	10.1	10.3	10.6	11.1
8H	12.2	12.5	12.7	13.0	13.6	9.7	10.0	10.2	10.5	11.1

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	0.83	0.89	0.94	0.97	1.01	1.04	1.06	1.09	1.10
	0.30		0.78	0.84	0.89	0.93	0.97	1.01	1.03	1.06	1.08
	0.20		0.74	0.81	0.86	0.89	0.94	0.98	1.00	1.04	1.06
0.50	0.50	0.20	0.81	0.87	0.91	0.94	0.98	1.01	1.02	1.05	1.06
	0.30		0.77	0.83	0.87	0.91	0.95	0.98	1.00	1.03	1.04
	0.20		0.74	0.80	0.84	0.88	0.92	0.96	0.98	1.01	1.03
0.30	0.50	0.20	0.80	0.86	0.89	0.92	0.95	0.97	0.99	1.01	1.02
	0.30		0.76	0.82	0.86	0.89	0.93	0.95	0.97	0.99	1.01
	0.20		0.73	0.79	0.83	0.86	0.91	0.93	0.95	0.98	0.99
0.00	0.00	0.00	0.71	0.77	0.81	0.84	0.87	0.90	0.91	0.93	0.95
<p>Rating: 7W 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	0.42	0.37	0.29	0.24	0.20	0.16	0.13
	0.30		0.52	0.43	0.37	0.32	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	0.59	0.47	0.40	0.34	0.27	0.26	0.19	0.14	0.12
	0.30		0.50	0.41	0.35	0.31	0.25	0.20	0.18	0.14	0.11
	0.20		0.43	0.36	0.32	0.28	0.23	0.19	0.17	0.13	0.11
0.30	0.50	0.20	0.56	0.45	0.37	0.32	0.25	0.20	0.17	0.13	0.11
	0.30		0.48	0.39	0.34	0.29	0.23	0.19	0.16	0.13	0.10
	0.20		0.42	0.35	0.30	0.27	0.21	0.18	0.15	0.12	0.10
0.00	0.00	0.00	0.29	0.23	0.19	0.16	0.13	0.10	0.09	0.07	0.05
<p>Rating: 7W 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 = 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	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.15	0.16	0.18	0.18	0.20	0.21
	0.20		0.07	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19
0.30	0.50	0.20	0.13	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.18	0.19
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating: 7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											