

Report No.:

Test Time: 2018/10/29 10:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: MINI WALL WAHSE

Luminaire Description: MINIRGBW2424RGB6515TS (W)

Luminous Length (mm): 500

Luminous Width (mm): 50

Luminous Height (mm): 70

Voltage: 24.0 V

Current: 0.268 A

Power: 6.44 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 454.5 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H14.9

Vertical Diffuse Angle(50%): V14.8

Luminaire Efficacy Rating (LER): 71

Max. Intensity: 2286.32 cd

Total Rated Lamp Lumens: 454.5 lm

Efficiency: 100%

Upward Ratio: 2%

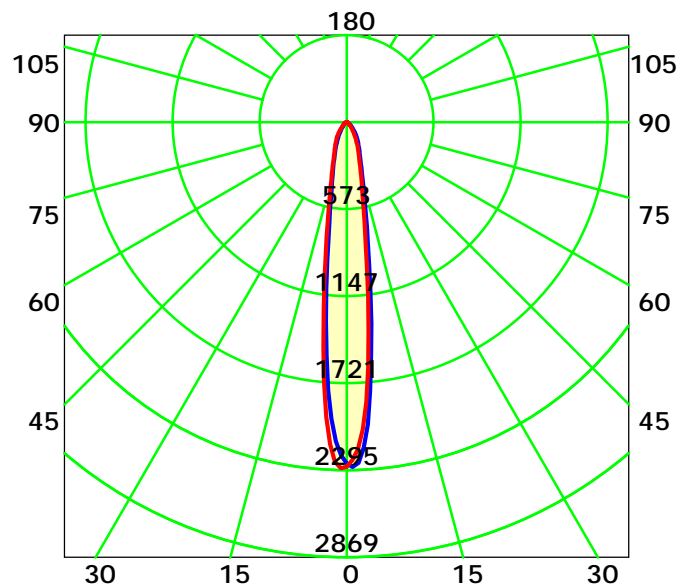
Central Intensity: 2249.92 cd

Pos of Max. Intensity: H300 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 14.8° 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

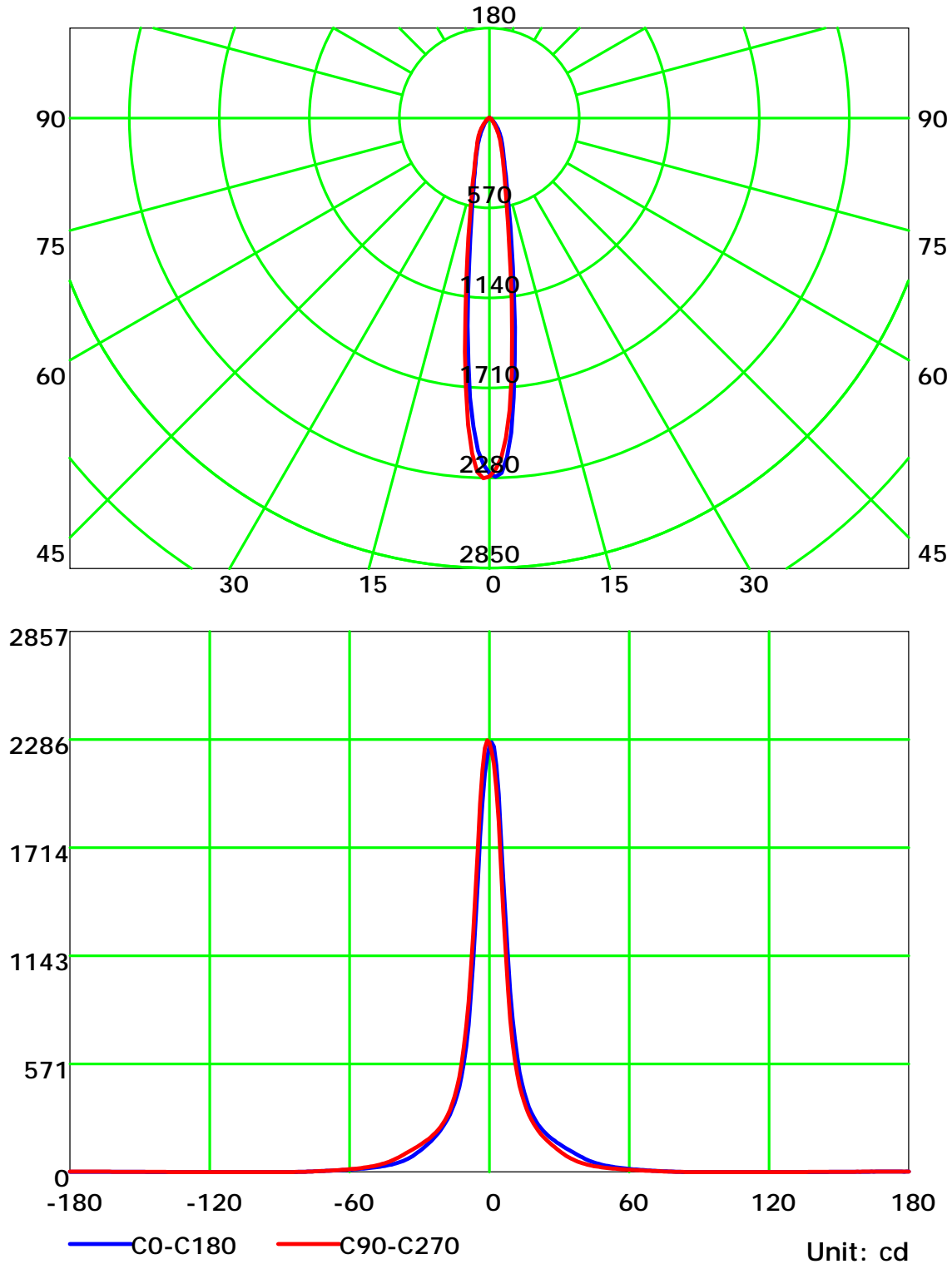
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

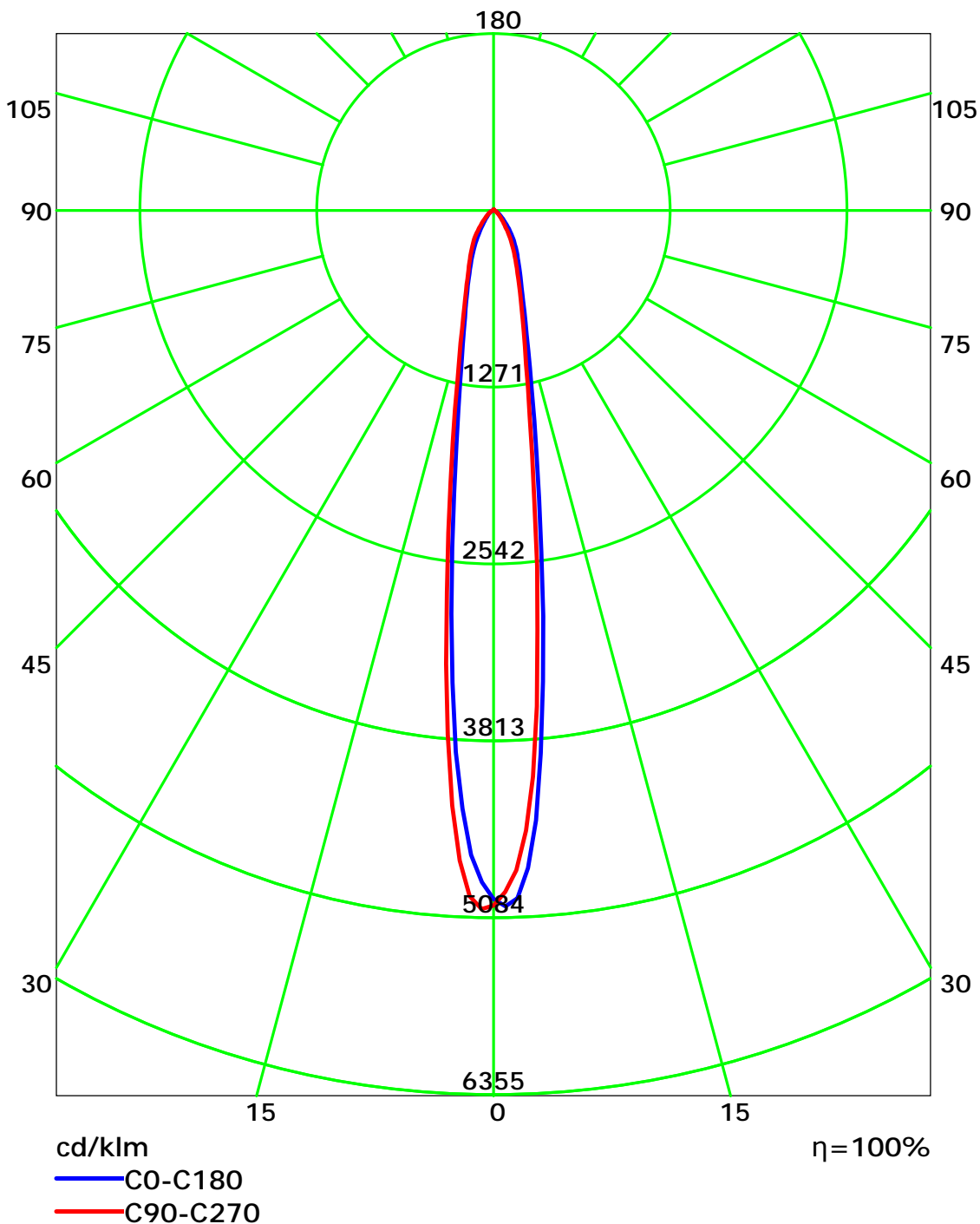
Luminous Intensity Distribution Curve



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:

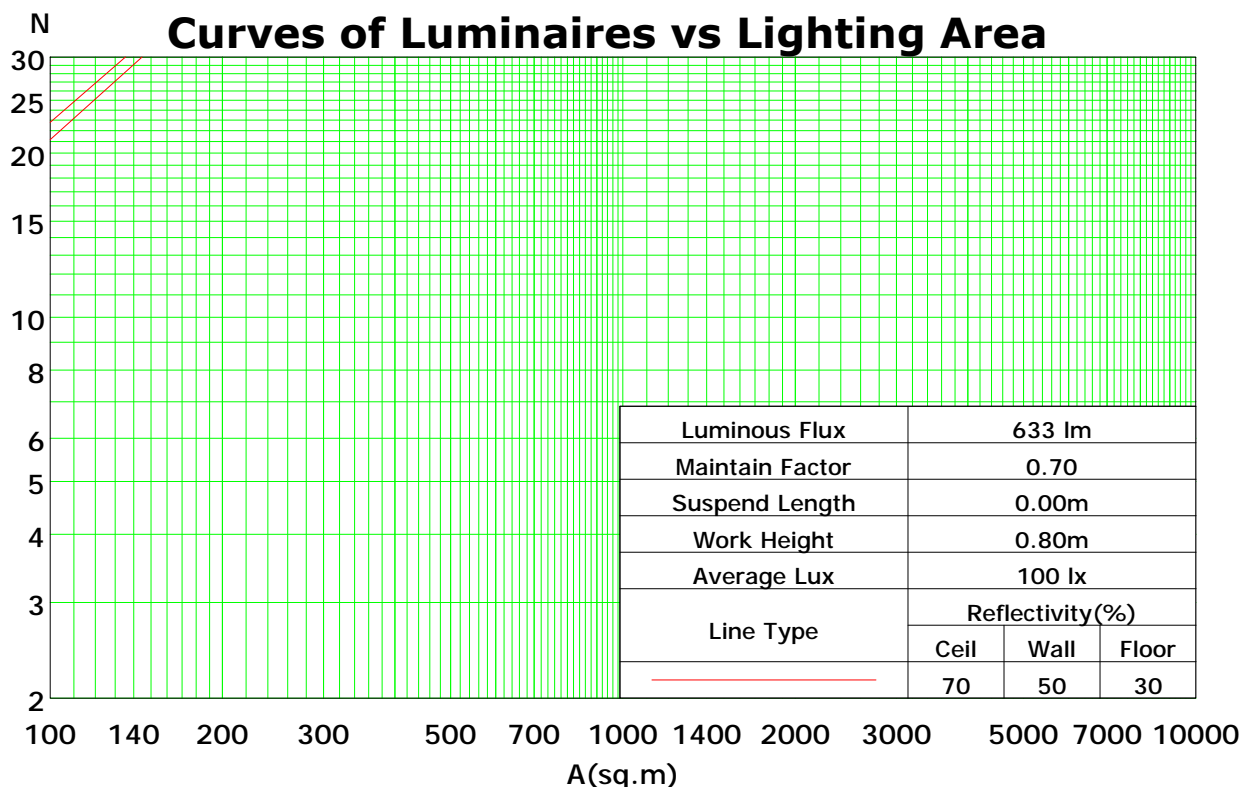
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	113	110	108	105	110	108	106	104	103	102	100	99	98	97	96	95	94	92
2	107	103	99	95	105	101	97	94	97	94	92	94	92	89	91	89	87	86
3	102	96	91	87	100	95	90	86	92	88	85	89	86	83	87	84	82	80
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	80	76	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	86	77	72	68	84	76	71	67	75	70	67	74	70	66	73	69	66	65
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	71	65	62	78	70	65	62	69	64	61	68	64	61	67	63	61	59
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

Spacing Criteria (0-180): 0.26

Spacing Criteria (90-270): 0.25

Spacing Criteria (Diagonal): 0.29



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

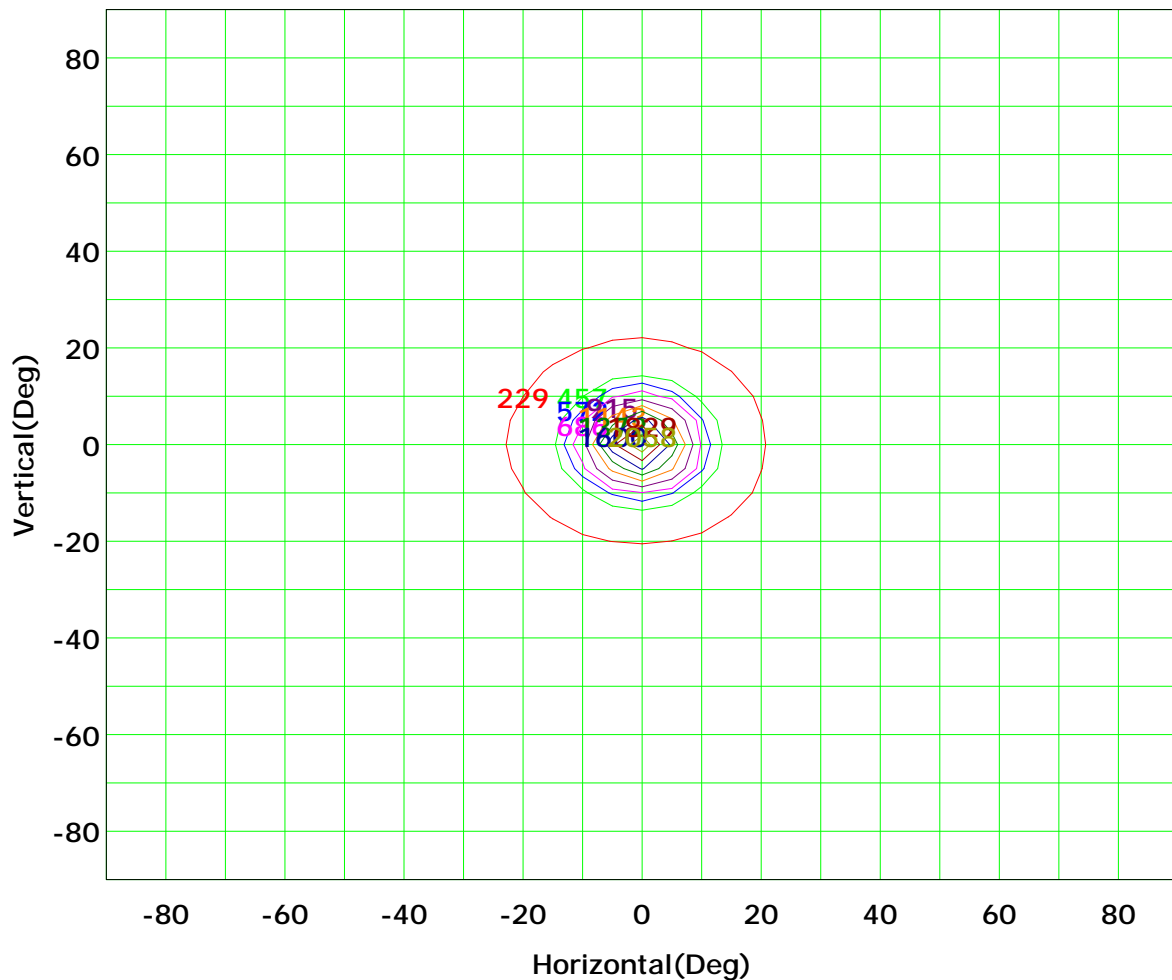
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 2286 cd

(10%): 229 cd	(20%): 457 cd
(25%): 572 cd	(30%): 686 cd
(40%): 915 cd	(50%): 1143 cd
(60%): 1372 cd	(70%): 1600 cd
(80%): 1829 cd	(90%): 2058 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

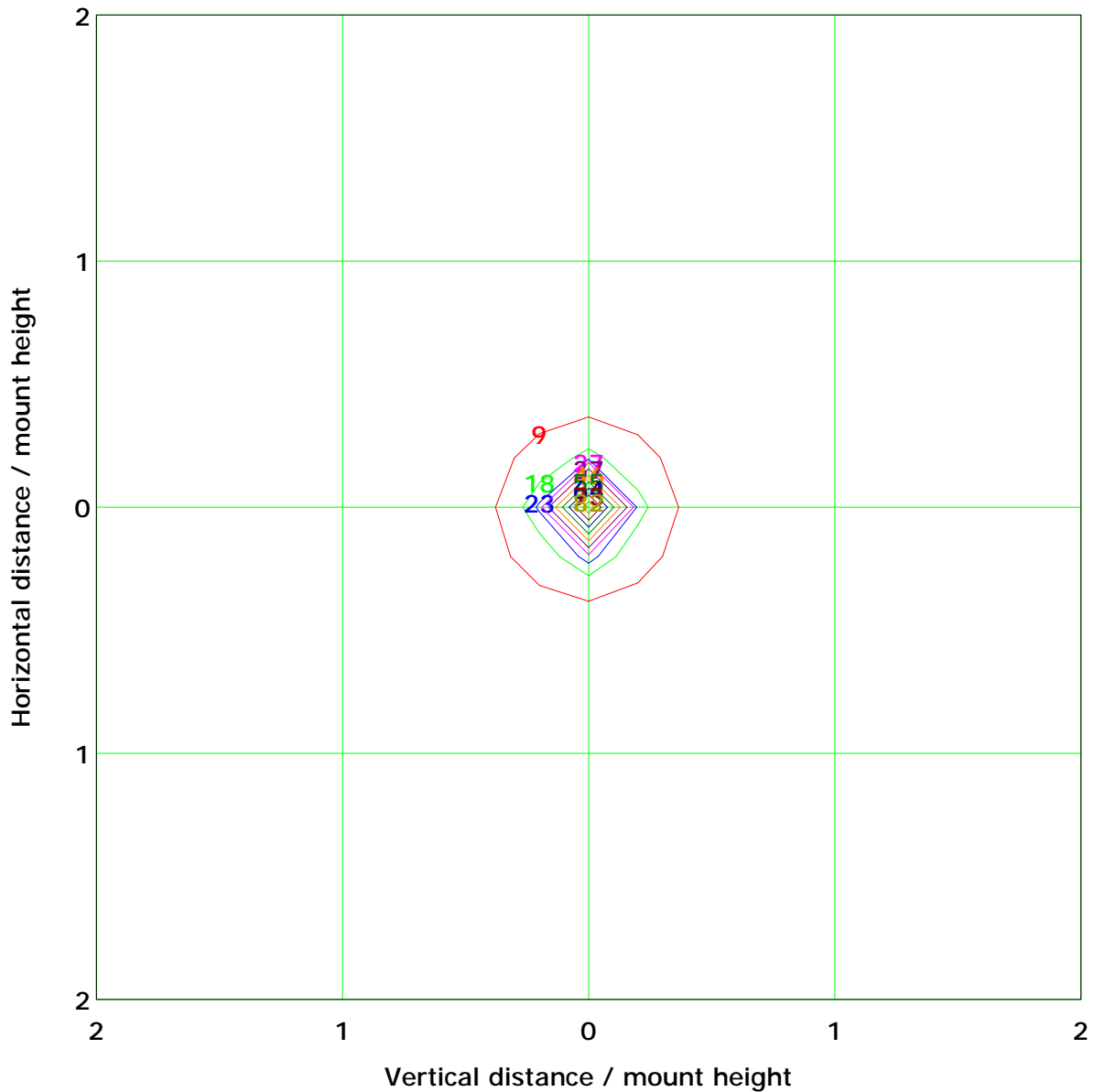
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 91.4 lx	
(10%): 9.1 lx	(20%): 18.3 lx
(25%): 22.9 lx	(30%): 27.4 lx
(40%): 36.6 lx	(50%): 45.7 lx
(60%): 54.8 lx	(70%): 64.0 lx
(80%): 73.1 lx	(90%): 82.3 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

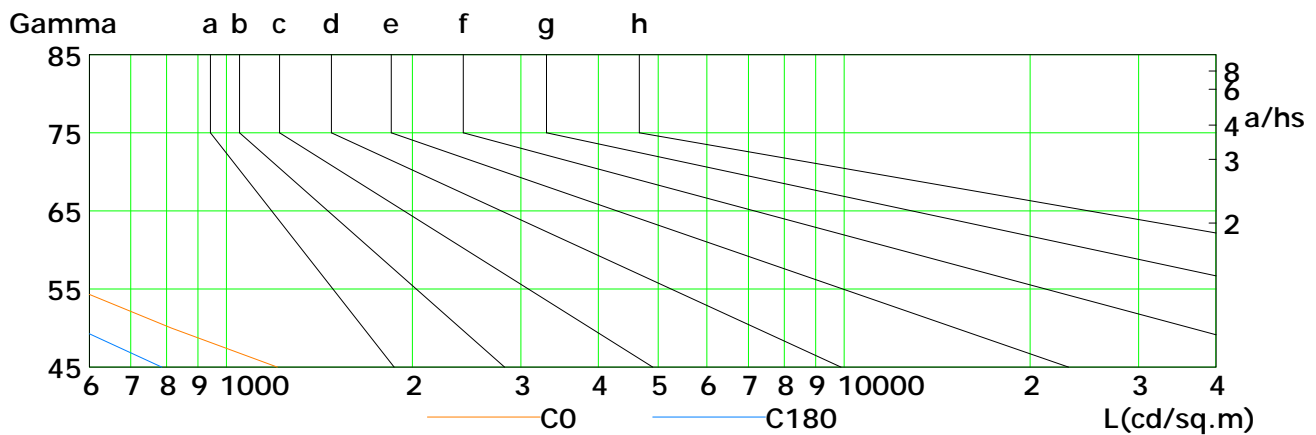
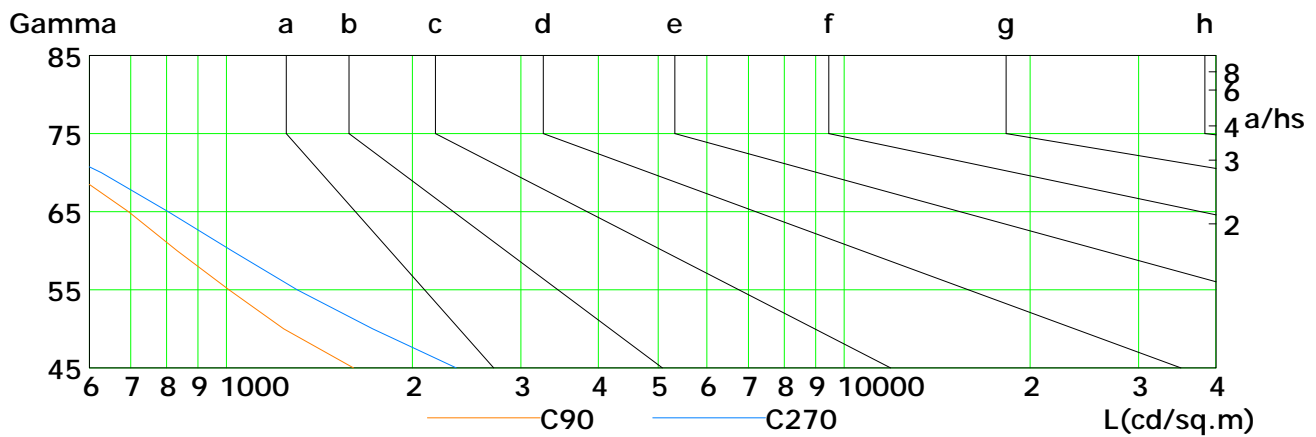
Humidity: 60%

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	1210	815	573	410	293	199	121	63	28
C90	1606	1239	1010	833	694	563	421	293	207
C180	786	573	431	324	242	171	109	60	28
C270	2358	1726	1302	1021	805	628	469	308	228

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

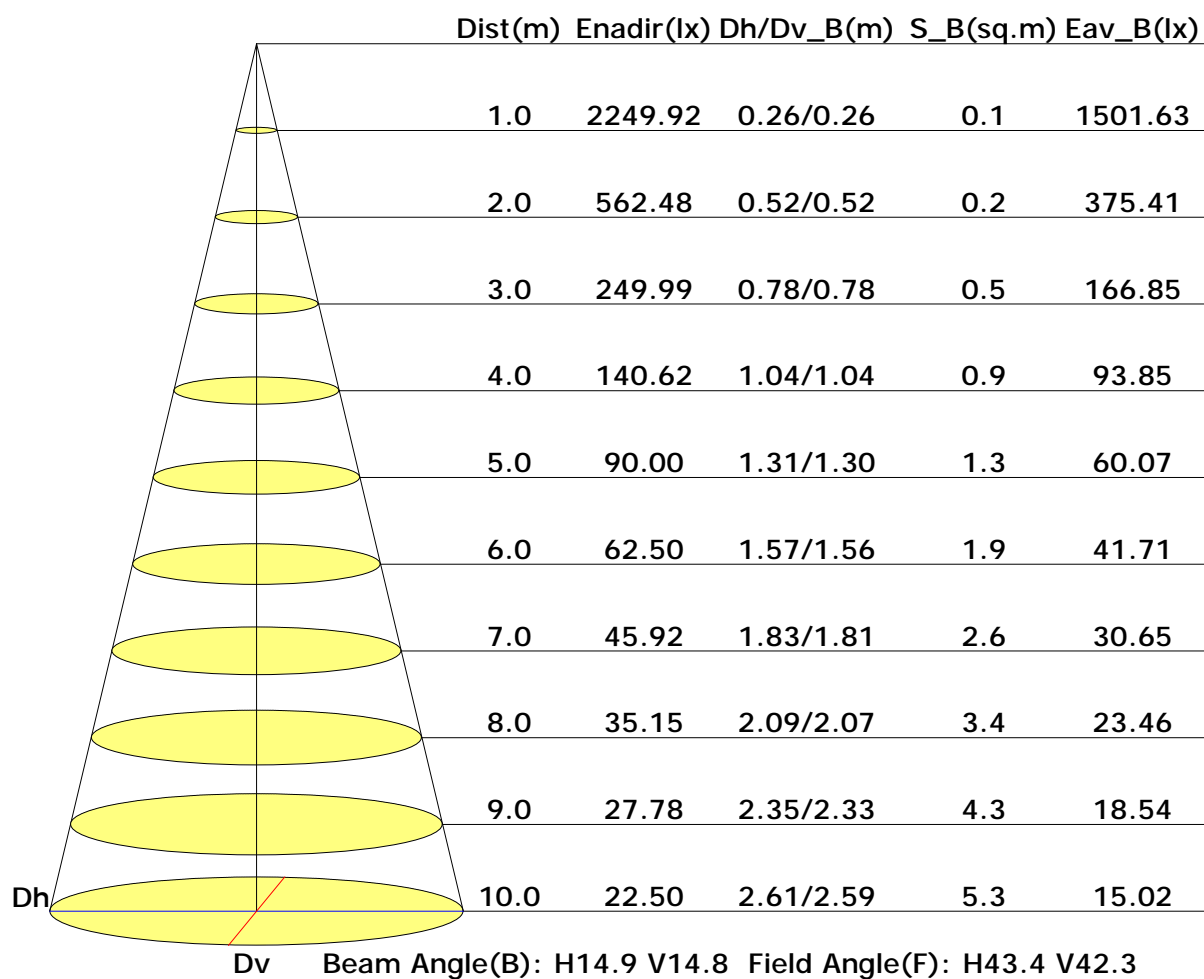
Test Device: GPM-1800B

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

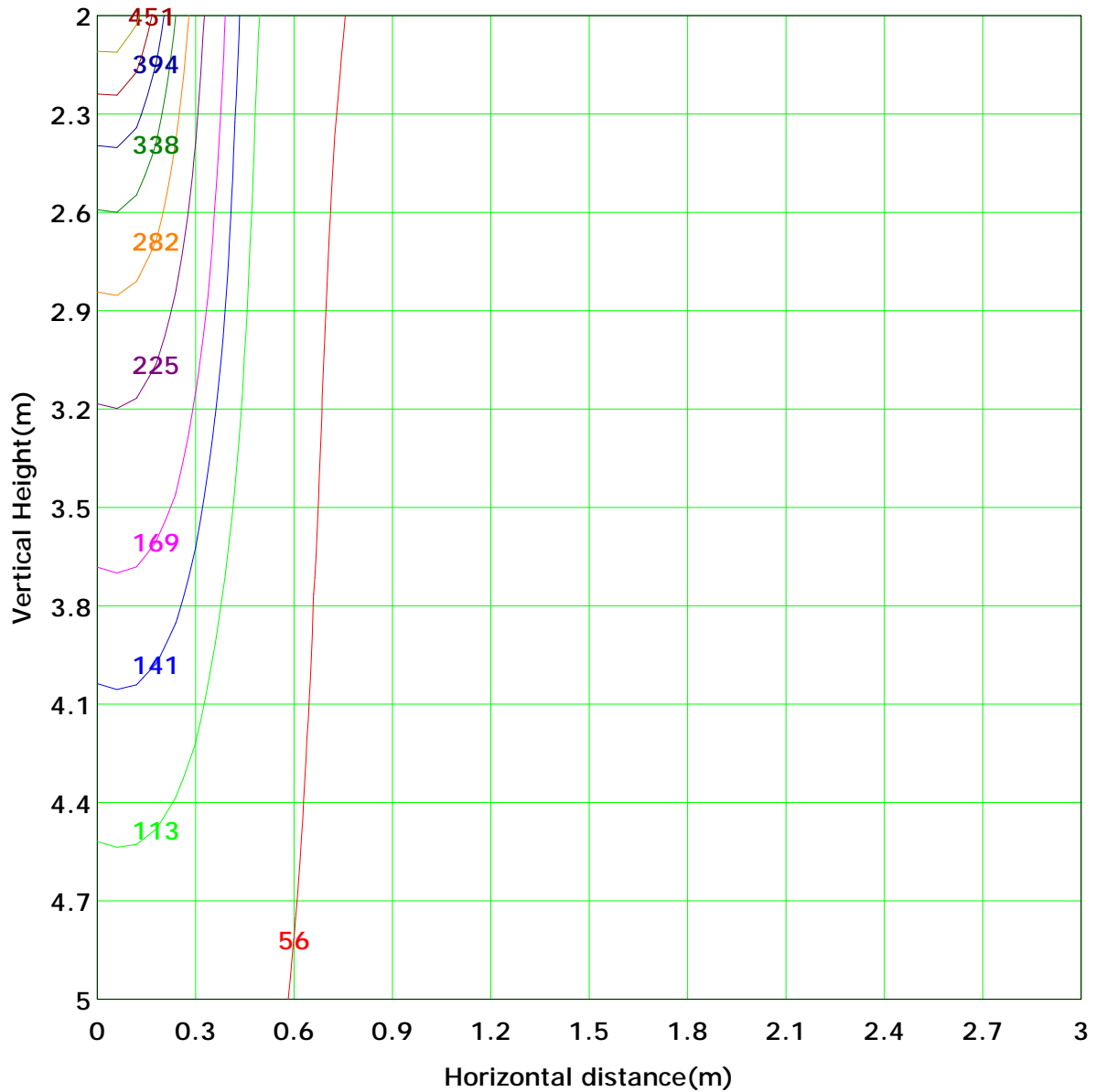
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 563.3 lx
(10%): 56.3 lx	(20%): 112.7 lx	
(25%): 140.8 lx	(30%): 169.0 lx	
(40%): 225.3 lx	(50%): 281.7 lx	
(60%): 338.0 lx	(70%): 394.3 lx	
(80%): 450.7 lx	(90%): 507.0 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

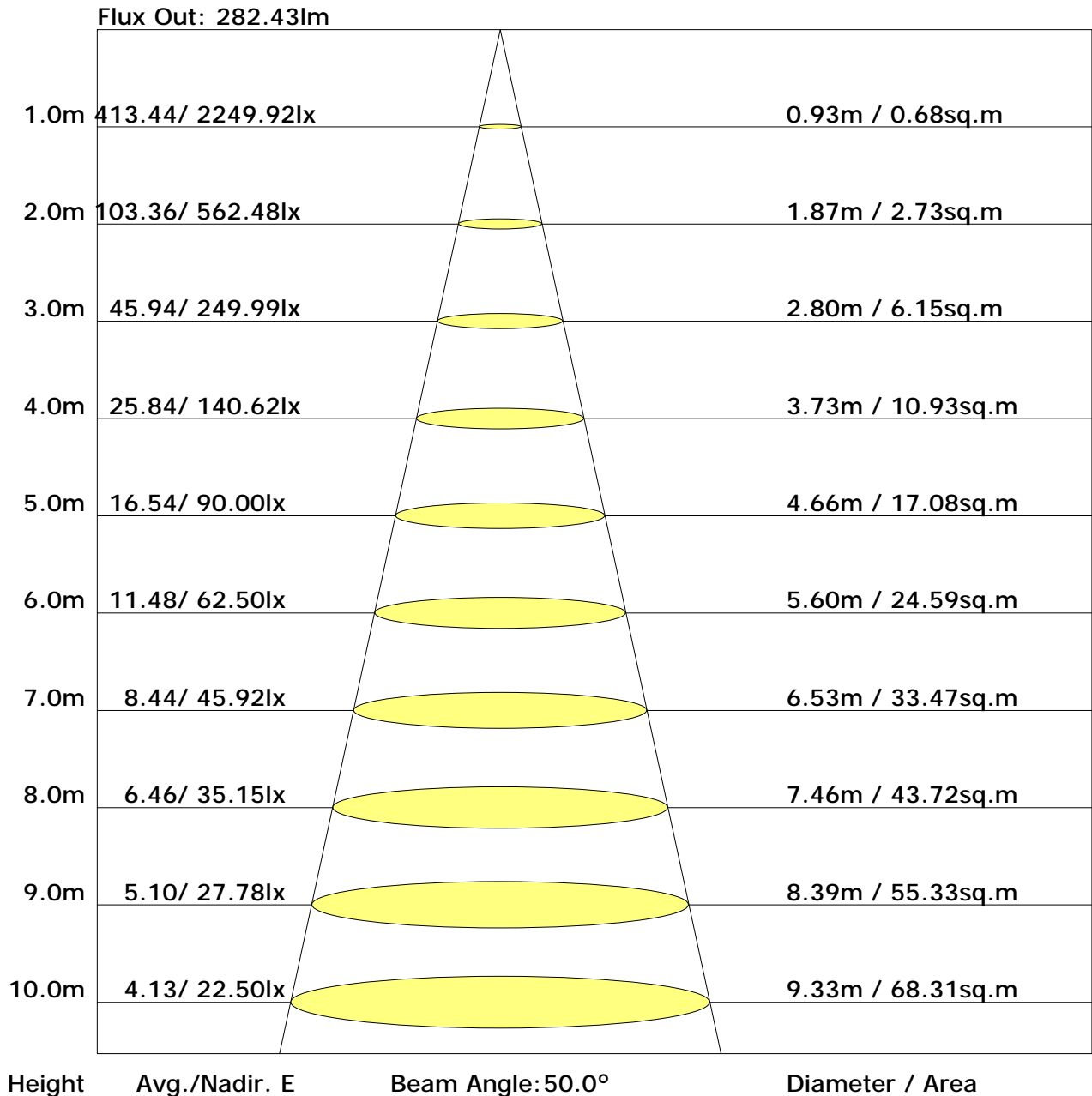
Humidity: 60%

Inspector:

Unit: 1m

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	9.9	11.0	10.3	11.4	11.7	6.2	7.3	6.6	7.6	8.0
3H	10.9	11.8	11.3	12.2	12.6	7.0	7.9	7.4	8.3	8.7
4H	11.1	12.0	11.6	12.4	12.8	7.2	8.0	7.6	8.4	8.9
6H	11.2	12.0	11.7	12.4	12.9	7.2	8.0	7.7	8.4	8.9
8H	11.2	12.0	11.7	12.4	12.8	7.2	8.0	7.7	8.4	8.8
12H	11.2	11.9	11.6	12.3	12.8	7.2	7.9	7.6	8.3	8.8
X=4H Y=2H	10.0	10.8	10.4	11.2	11.6	6.6	7.5	7.0	7.9	8.3
3H	11.0	11.7	11.4	12.1	12.6	7.5	8.2	7.9	8.7	9.1
4H	11.3	11.9	11.7	12.4	12.9	7.7	8.4	8.2	8.8	9.3
6H	11.4	12.0	11.9	12.4	13.0	7.8	8.4	8.3	8.9	9.4
8H	11.4	11.9	11.9	12.4	12.9	7.8	8.3	8.3	8.8	9.3
12H	11.4	11.8	11.9	12.4	12.9	7.8	8.2	8.3	8.8	9.3
X=8H Y=4H	11.2	11.7	11.7	12.2	12.7	7.8	8.3	8.3	8.8	9.3
6H	11.3	11.8	11.9	12.3	12.8	7.9	8.3	8.5	8.9	9.4
8H	11.4	11.7	11.9	12.3	12.8	7.9	8.3	8.5	8.9	9.4
12H	11.4	11.7	11.9	12.2	12.8	8.0	8.3	8.5	8.8	9.4
X=12H Y=4H	11.1	11.6	11.7	12.1	12.6	7.8	8.2	8.3	8.7	9.2
6H	11.3	11.7	11.9	12.2	12.7	7.9	8.3	8.5	8.8	9.4
8H	11.3	11.6	11.9	12.2	12.8	7.9	8.3	8.5	8.8	9.4

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 = 0.50								
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	0.86	0.93	0.98	1.01	1.06	1.09	1.11	1.14	1.15
	0.30		0.81	0.88	0.93	0.97	1.02	1.05	1.08	1.11	1.13
	0.20		0.77	0.84	0.90	0.93	0.99	1.02	1.05	1.09	1.11
0.50	0.50	0.20	0.85	0.91	0.95	0.99	1.03	1.05	1.07	1.09	1.11
	0.30		0.80	0.87	0.91	0.95	0.99	1.02	1.04	1.07	1.09
	0.20		0.77	0.84	0.88	0.92	0.97	1.00	1.02	1.05	1.08
0.30	0.50	0.20	0.83	0.89	0.93	0.96	1.00	1.02	1.03	1.05	1.07
	0.30		0.79	0.86	0.90	0.93	0.97	1.00	1.01	1.04	1.05
	0.20		0.76	0.83	0.87	0.90	0.95	0.98	1.00	1.02	1.04
0.00	0.00	0.00	0.74	0.80	0.84	0.87	0.91	0.94	0.95	0.97	0.99
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(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.50								
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	0.65	0.53	0.45	0.39	0.30	0.25	0.22	0.17	0.13
	0.30		0.54	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13
	0.20		0.47	0.40	0.35	0.31	0.25	0.21	0.19	0.15	0.12
0.50	0.50	0.20	0.62	0.50	0.42	0.36	0.28	0.28	0.20	0.15	0.12
	0.30		0.52	0.43	0.37	0.32	0.26	0.22	0.19	0.14	0.12
	0.20		0.45	0.38	0.33	0.29	0.24	0.20	0.17	0.14	0.11
0.30	0.50	0.20	0.59	0.47	0.39	0.34	0.26	0.21	0.18	0.14	0.11
	0.30		0.50	0.41	0.35	0.30	0.24	0.20	0.17	0.13	0.11
	0.20		0.44	0.37	0.32	0.28	0.22	0.19	0.16	0.13	0.10
0.00	0.00	0.00	0.30	0.24	0.20	0.17	0.13	0.11	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 = 0.50								
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	0.16	0.17	0.18	0.19	0.21	0.22	0.22	0.23	0.24
	0.30		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.20	0.21
0.50	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.23
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.21
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	0.20
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21	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	0.11	0.13	0.15	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
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											