

Report No.:

Test Time: 2018/10/26 17:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: MINI WALL WAHSE

Luminaire Description: MINIRGBW2424RGB6515TS (R)

Luminous Length (mm): 500

Luminous Width (mm): 50

Luminous Height (mm): 70

Voltage: 24.0 V

Current: 0.266 A

Power: 6.39 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 254.7 lm

Downward Ratio: 97%

Horizontal Diffuse Angle(50%): H14.4

Vertical Diffuse Angle(50%): V14.4

Luminaire Efficacy Rating (LER): 40

Max. Intensity: 1325.36 cd

Total Rated Lamp Lumens: 254.7 lm

Efficiency: 100%

Upward Ratio: 3%

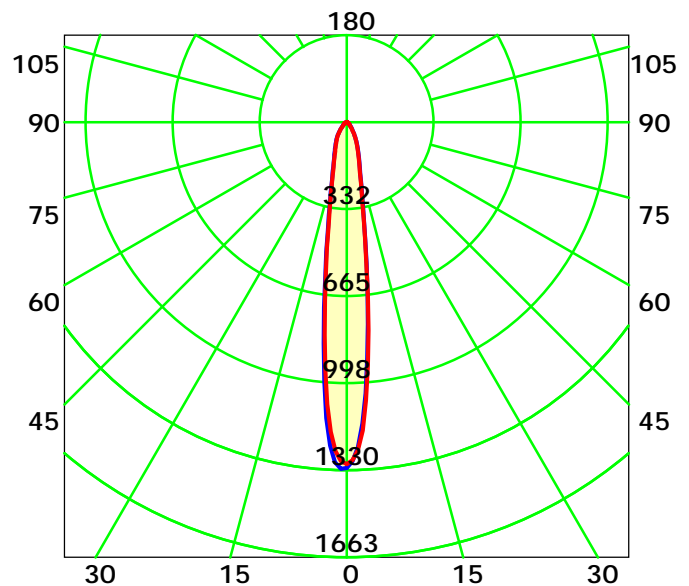
Central Intensity: 1321.21 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 14.4° 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

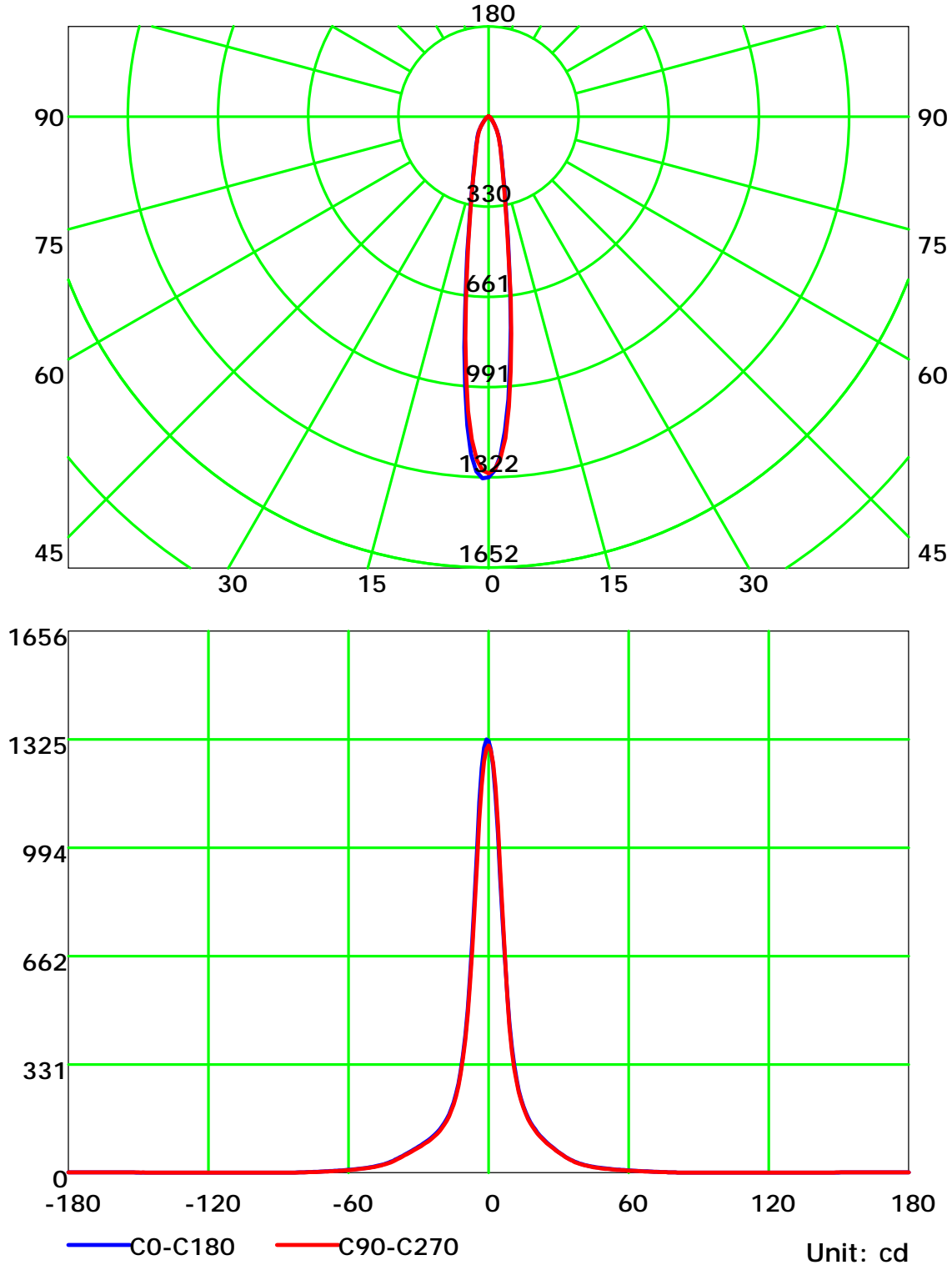
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

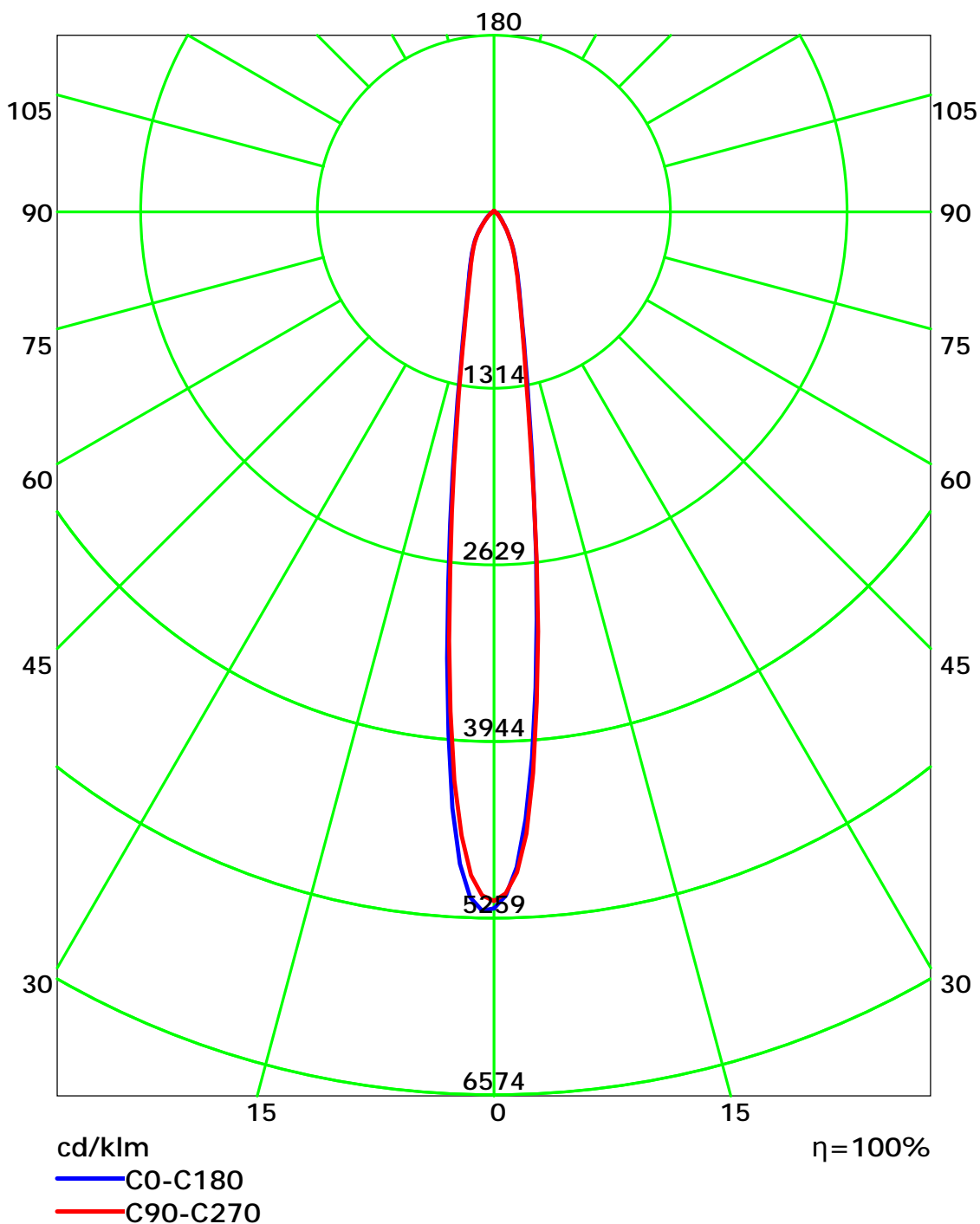
Luminous Intensity Distribution Curve



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:

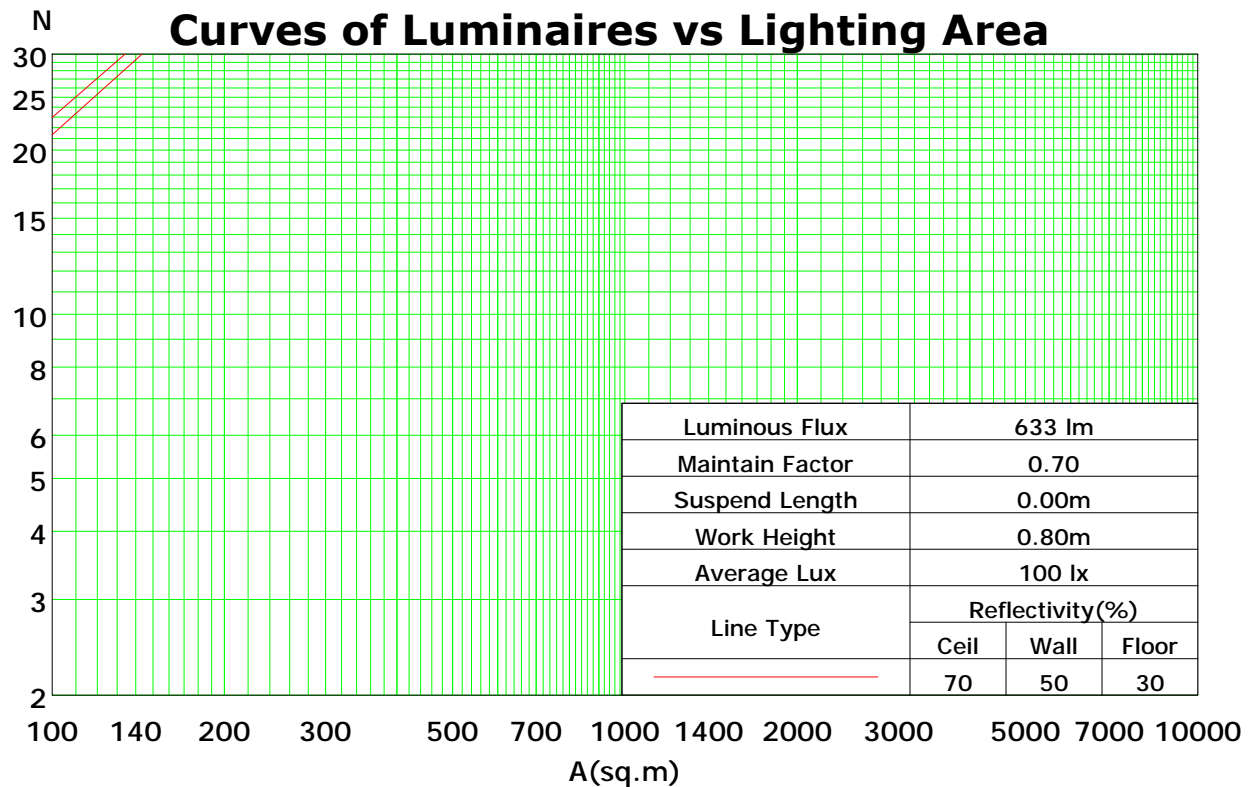
Coefficients Of Utilization - Zonal Cavity Method

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

Spacing Criteria (0-180): 0.25

Spacing Criteria (90-270): 0.25

Spacing Criteria (Diagonal): 0.27



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

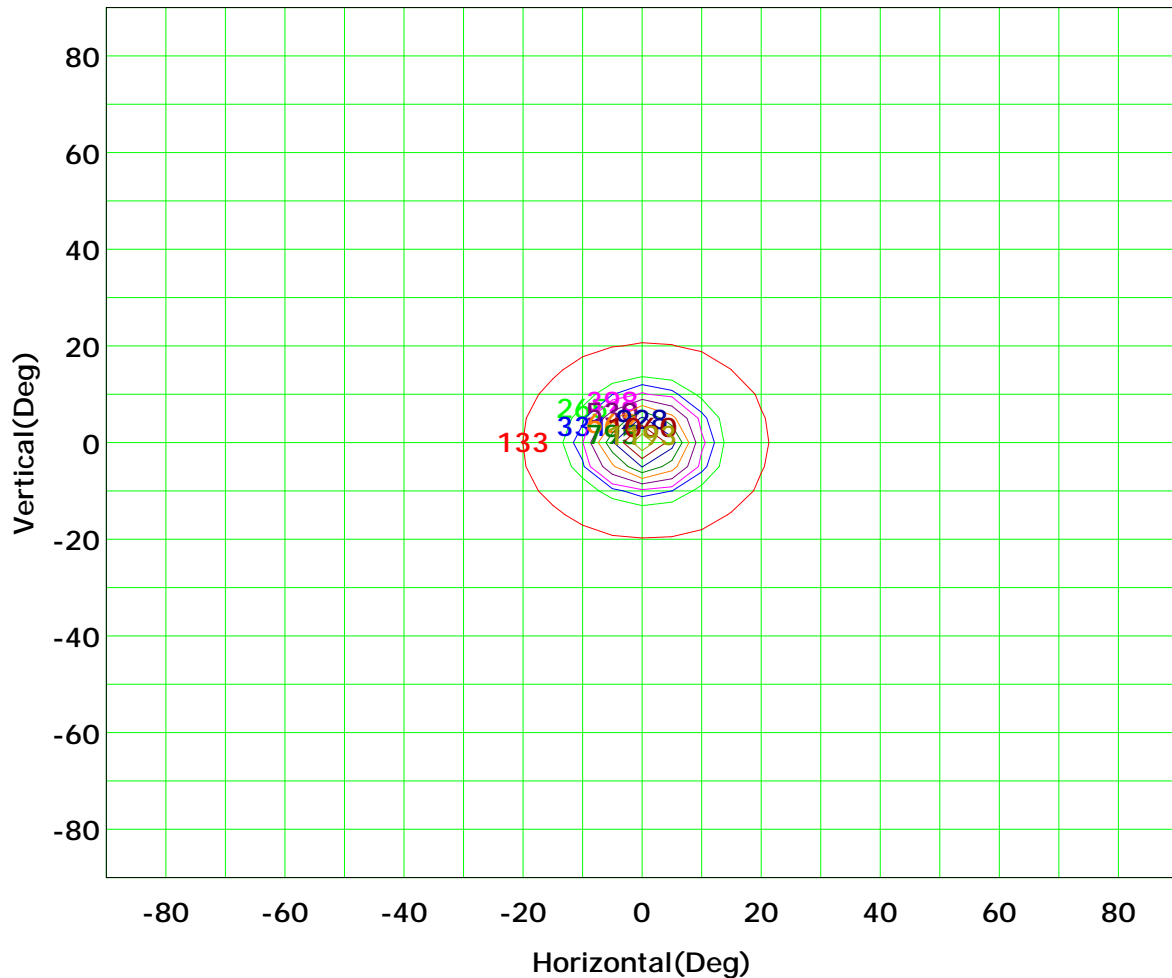
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 1325 cd

(10%): 133 cd	(20%): 265 cd
(25%): 331 cd	(30%): 398 cd
(40%): 530 cd	(50%): 663 cd
(60%): 795 cd	(70%): 928 cd
(80%): 1060 cd	(90%): 1193 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

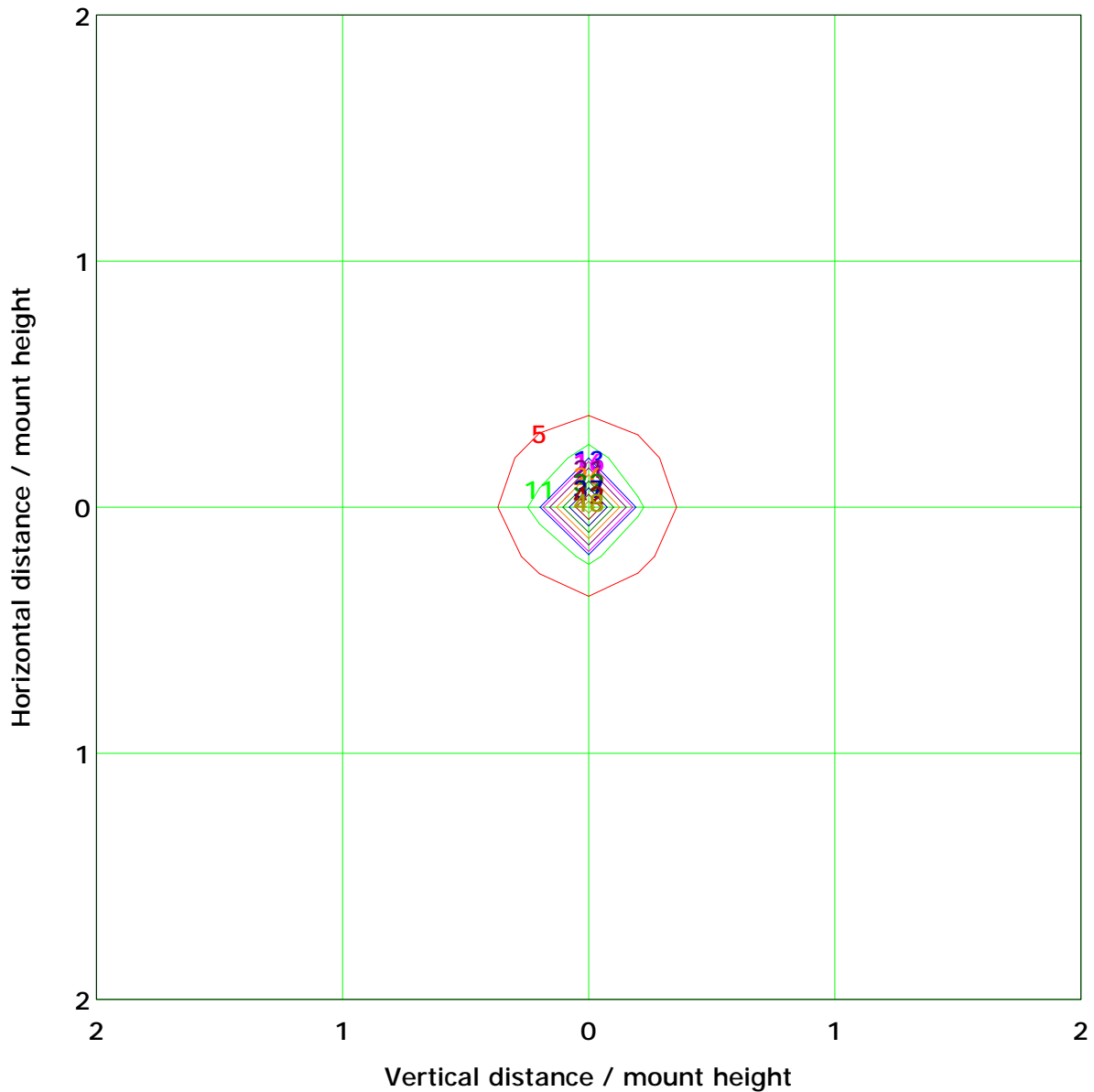
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 53.0 lx	
(10%): 5.3 lx	(20%): 10.6 lx
(25%): 13.2 lx	(30%): 15.9 lx
(40%): 21.2 lx	(50%): 26.5 lx
(60%): 31.8 lx	(70%): 37.1 lx
(80%): 42.4 lx	(90%): 47.7 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

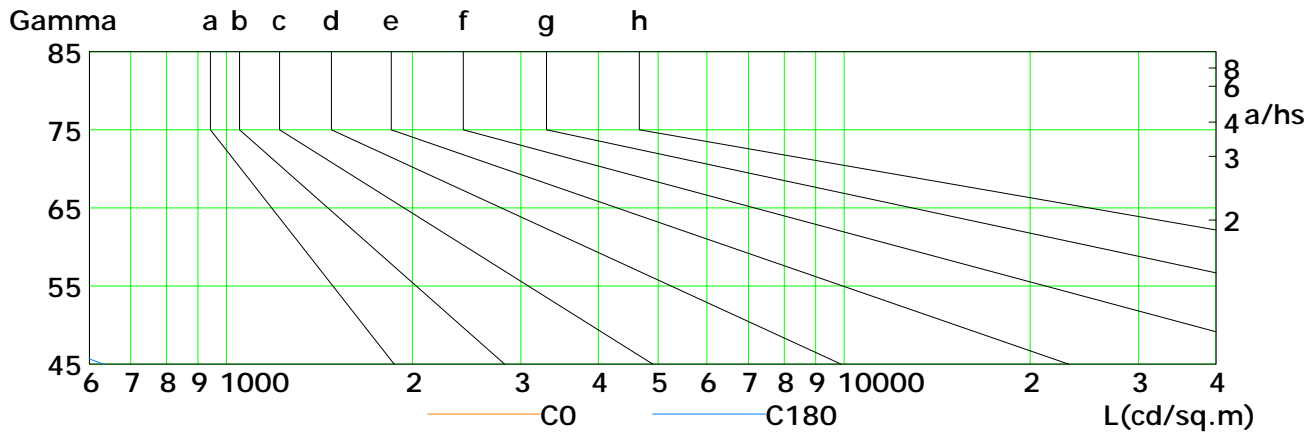
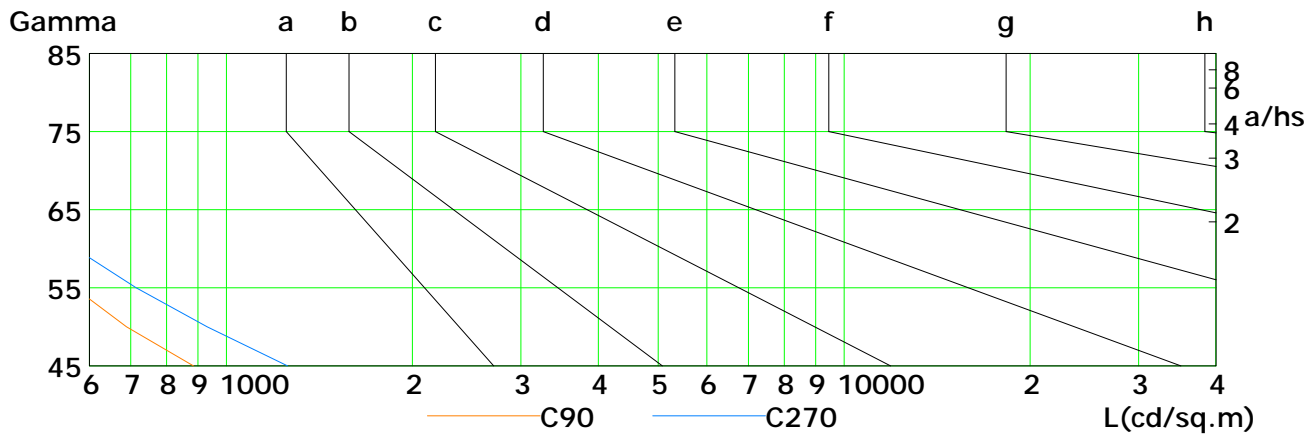
Humidity: 60%

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	448	326	246	189	143	104	71	47	31
C90	884	690	568	473	409	339	279	236	207
C180	632	433	310	230	167	122	81	54	31
C270	1256	932	714	570	460	376	315	236	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

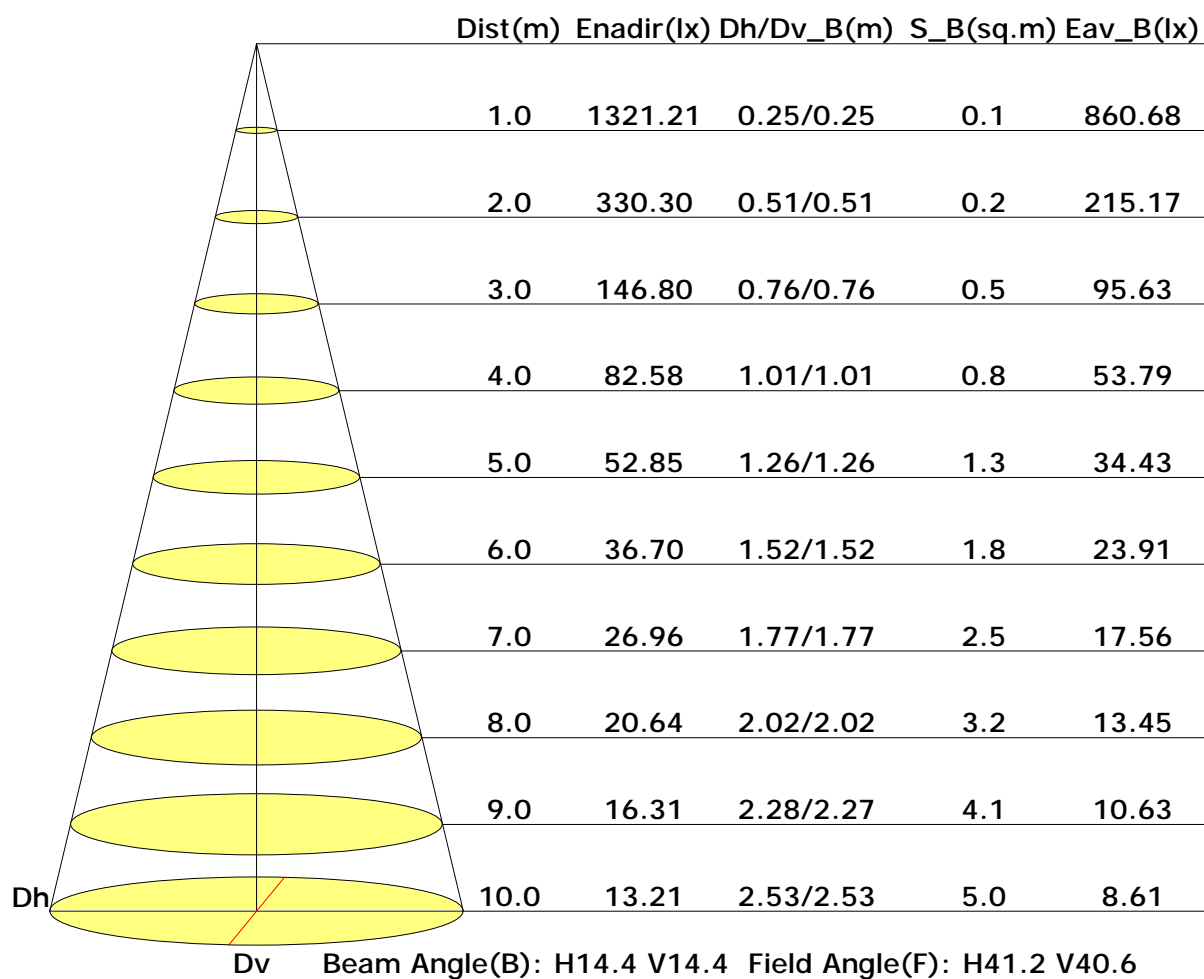
Test Device: GPM-1800B

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

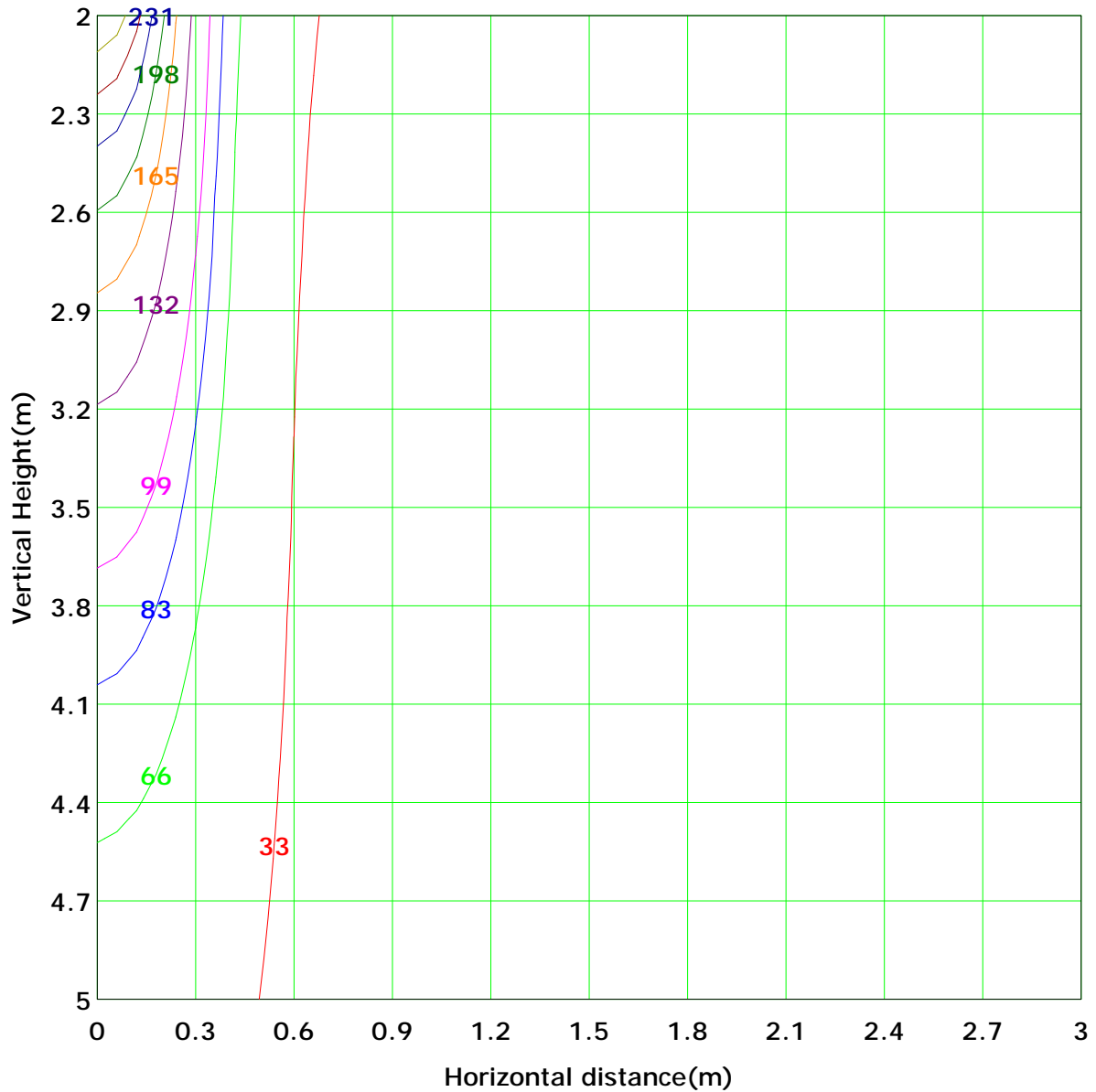
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 330.3 lx
(10%): 33.0 lx	(20%): 66.1 lx	
(25%): 82.6 lx	(30%): 99.1 lx	
(40%): 132.1 lx	(50%): 165.2 lx	
(60%): 198.2 lx	(70%): 231.2 lx	
(80%): 264.2 lx	(90%): 297.3 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

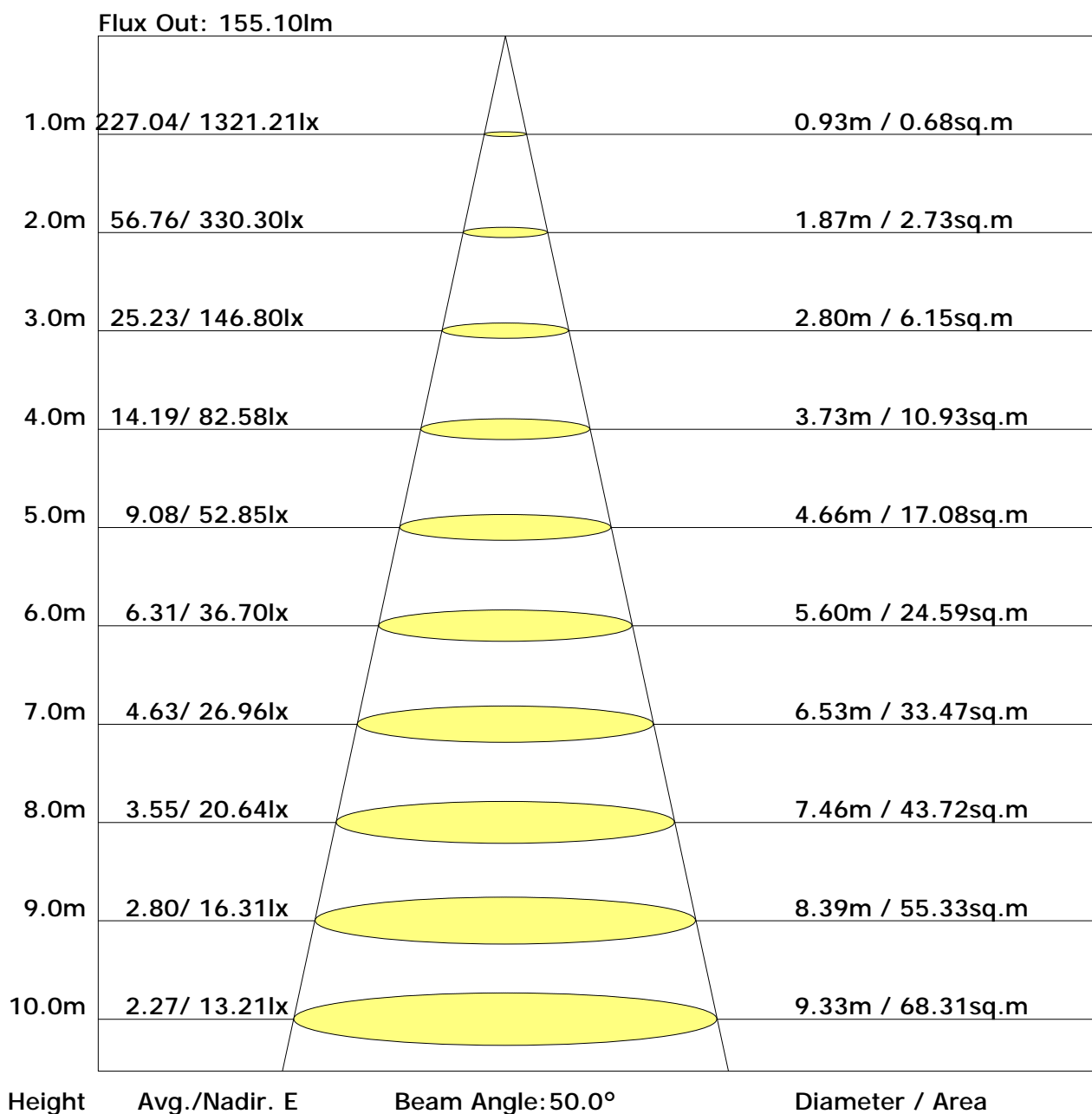
Humidity: 60%

Inspector:

Unit: lm

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	8.4	9.4	8.8	9.8	10.2	6.2	7.3	6.7	7.7	8.1
3H	9.6	10.5	10.0	10.9	11.3	7.1	8.1	7.6	8.4	8.9
4H	9.9	10.8	10.4	11.2	11.7	7.4	8.2	7.8	8.7	9.1
6H	10.2	11.0	10.7	11.4	11.9	7.5	8.3	8.0	8.7	9.2
8H	10.3	11.0	10.8	11.5	12.0	7.5	8.3	8.0	8.7	9.2
12H	10.4	11.1	10.8	11.5	12.0	7.5	8.2	8.0	8.7	9.2
X=4H Y=2H	8.5	9.3	8.9	9.7	10.2	6.7	7.5	7.1	7.9	8.4
3H	9.8	10.5	10.2	10.9	11.4	7.7	8.4	8.2	8.9	9.3
4H	10.2	10.9	10.7	11.3	11.9	8.0	8.7	8.5	9.1	9.6
6H	10.6	11.1	11.1	11.6	12.1	8.2	8.8	8.7	9.3	9.8
8H	10.7	11.2	11.2	11.7	12.2	8.3	8.8	8.8	9.3	9.8
12H	10.8	11.2	11.3	11.8	12.3	8.3	8.7	8.8	9.3	9.8
X=8H Y=4H	10.2	10.7	10.7	11.2	11.7	8.1	8.7	8.7	9.2	9.7
6H	10.6	11.0	11.1	11.5	12.1	8.4	8.8	9.0	9.4	9.9
8H	10.7	11.1	11.3	11.7	12.2	8.5	8.9	9.1	9.4	10.0
12H	10.9	11.2	11.5	11.8	12.4	8.6	8.9	9.2	9.5	10.1
X=12H Y=4H	10.1	10.6	10.7	11.1	11.7	8.1	8.6	8.7	9.1	9.7
6H	10.5	10.9	11.1	11.4	12.0	8.4	8.8	9.0	9.3	9.9
8H	10.7	11.0	11.3	11.6	12.2	8.5	8.9	9.1	9.4	10.1

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0

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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	0.97	1.01	1.05	1.08	1.10	1.13	1.15
	0.30		0.81	0.88	0.92	0.96	1.01	1.05	1.07	1.10	1.13
	0.20		0.77	0.84	0.89	0.93	0.98	1.02	1.04	1.08	1.11
0.50	0.50	0.20	0.84	0.90	0.95	0.98	1.02	1.04	1.06	1.09	1.10
	0.30		0.79	0.86	0.91	0.94	0.99	1.02	1.04	1.06	1.08
	0.20		0.76	0.83	0.87	0.91	0.96	0.99	1.01	1.05	1.07
0.30	0.50	0.20	0.83	0.88	0.92	0.95	0.99	1.01	1.02	1.04	1.06
	0.30		0.79	0.85	0.89	0.92	0.96	0.99	1.00	1.03	1.04
	0.20		0.76	0.82	0.86	0.89	0.94	0.96	0.99	1.01	1.03
0.00	0.00	0.00	0.73	0.79	0.83	0.86	0.90	0.92	0.94	0.96	0.97
<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 = 0.50								
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	0.66	0.54	0.45	0.39	0.31	0.26	0.22	0.17	0.14
	0.30		0.55	0.46	0.39	0.35	0.28	0.24	0.20	0.16	0.13
	0.20		0.47	0.40	0.35	0.31	0.26	0.22	0.19	0.15	0.13
0.50	0.50	0.20	0.62	0.50	0.42	0.36	0.29	0.28	0.20	0.16	0.13
	0.30		0.52	0.44	0.37	0.33	0.26	0.22	0.19	0.15	0.12
	0.20		0.46	0.39	0.33	0.30	0.24	0.20	0.18	0.14	0.12
0.30	0.50	0.20	0.59	0.47	0.39	0.34	0.26	0.22	0.19	0.14	0.12
	0.30		0.50	0.41	0.35	0.31	0.24	0.20	0.17	0.14	0.11
	0.20		0.44	0.37	0.32	0.28	0.23	0.19	0.16	0.13	0.11
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	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.25
	0.30		0.12	0.14	0.16	0.17	0.19	0.20	0.21	0.23	0.23
	0.20		0.09	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24
	0.30		0.12	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23
	0.20		0.09	0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.21
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											