

Report No.:

Test Time: 2018/9/11 10:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: AC RIBBONLYTE

Luminous Length (mm): 600

Luminous Height (mm): 6

Current: 0.071 A

Power Factor: 0.943

Luminaire Description: RBHIAC65120435

Luminous Width (mm): 15

Voltage: 119.6 V

Power: 8.00 W

Photometric Results

CIE Class: Direct

Measurement Flux: 612.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H115.6

Vertical Diffuse Angle(50%): V112.6

Luminaire Efficacy Rating (LER): 77

Max. Intensity: 224.06 cd

Total Rated Lamp Lumens: 612.5 lm

Efficiency: 100%

Upward Ratio: 1%

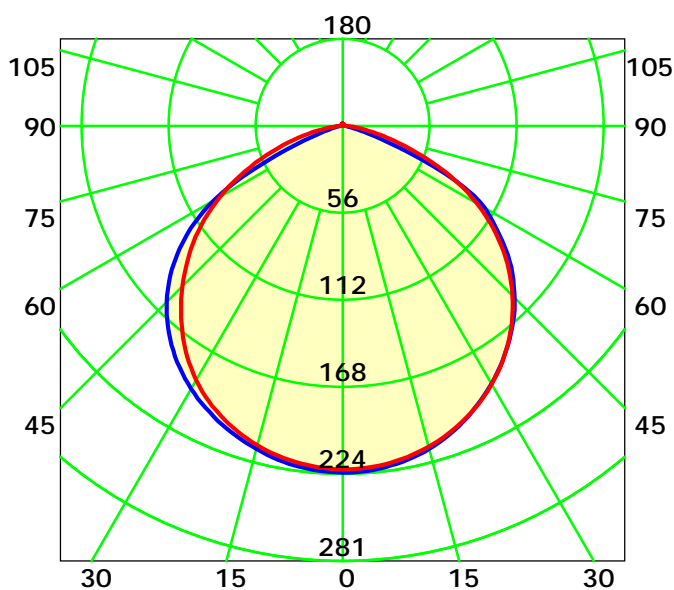
Central Intensity: 223.99 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 114.1° 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

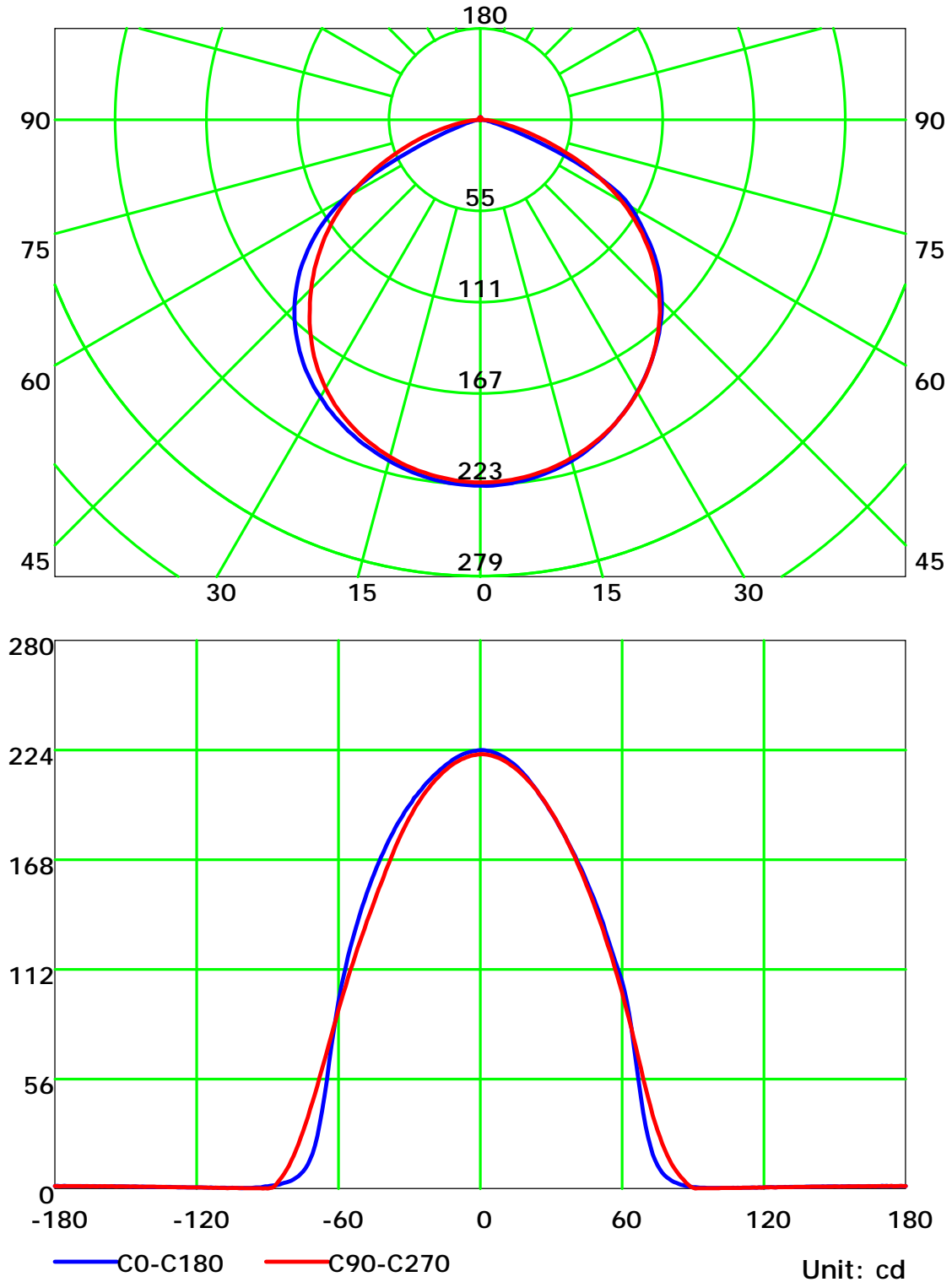
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

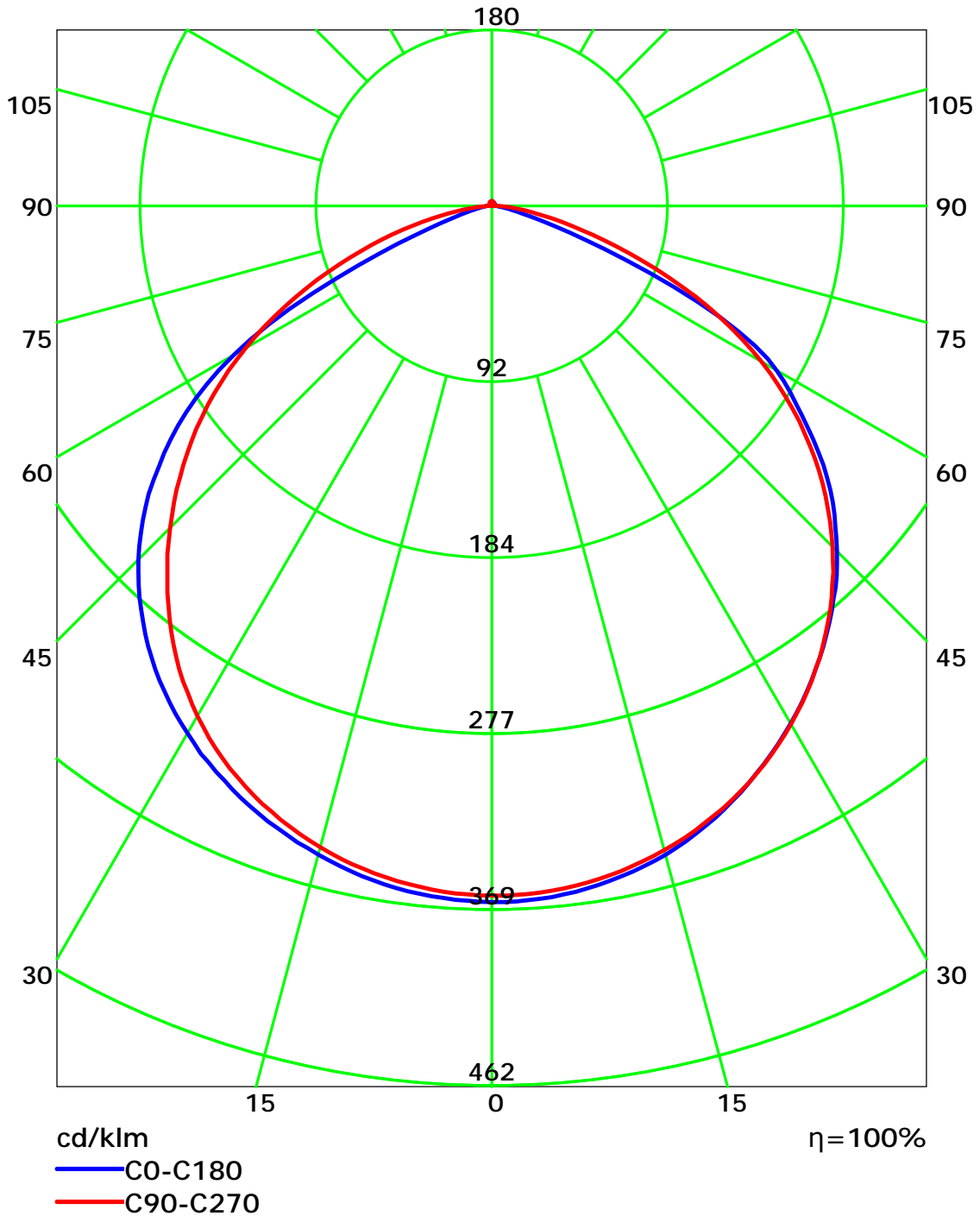
Luminous Intensity Distribution Curve



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:

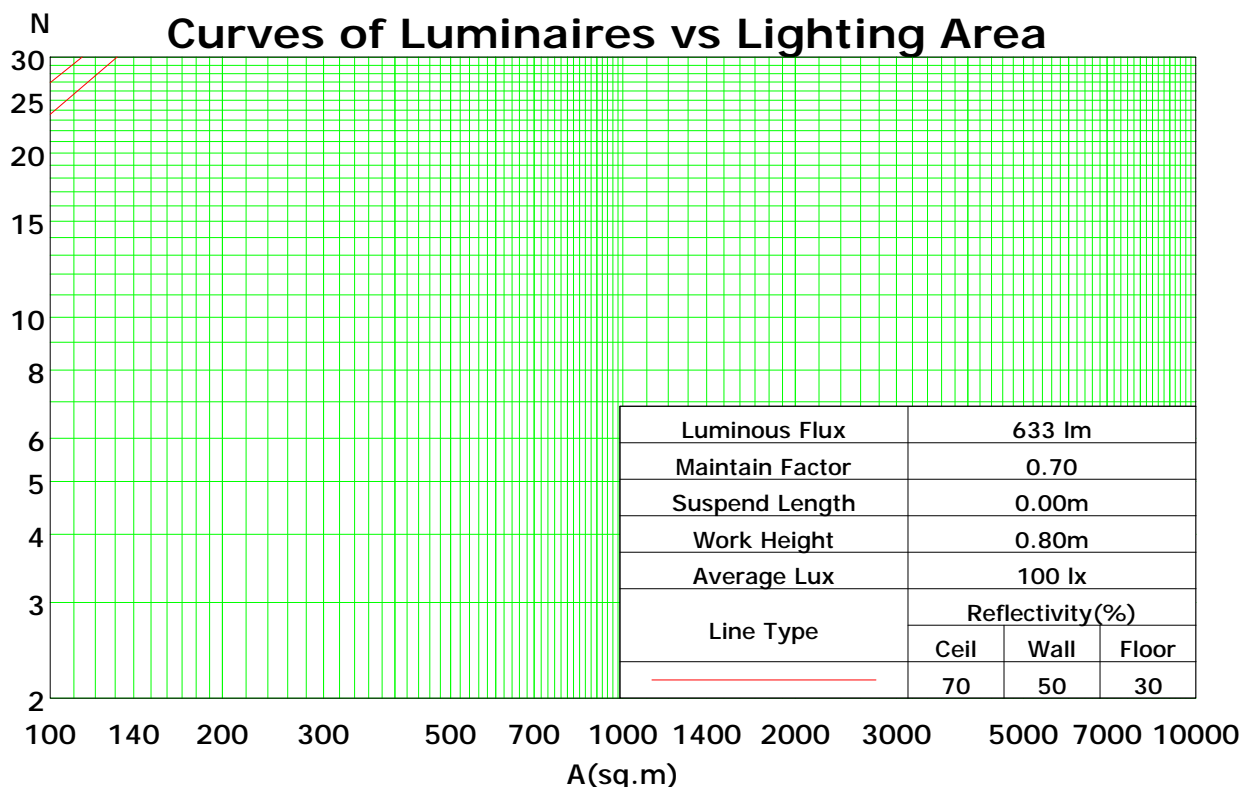
Coefficients Of Utilization - Zonal Cavity Method

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	111	111	111	106	106	106	101	101	101	99
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	71	67	63	61
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	61	54	49	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	43	38	33	31
9	57	44	36	31	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.40



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

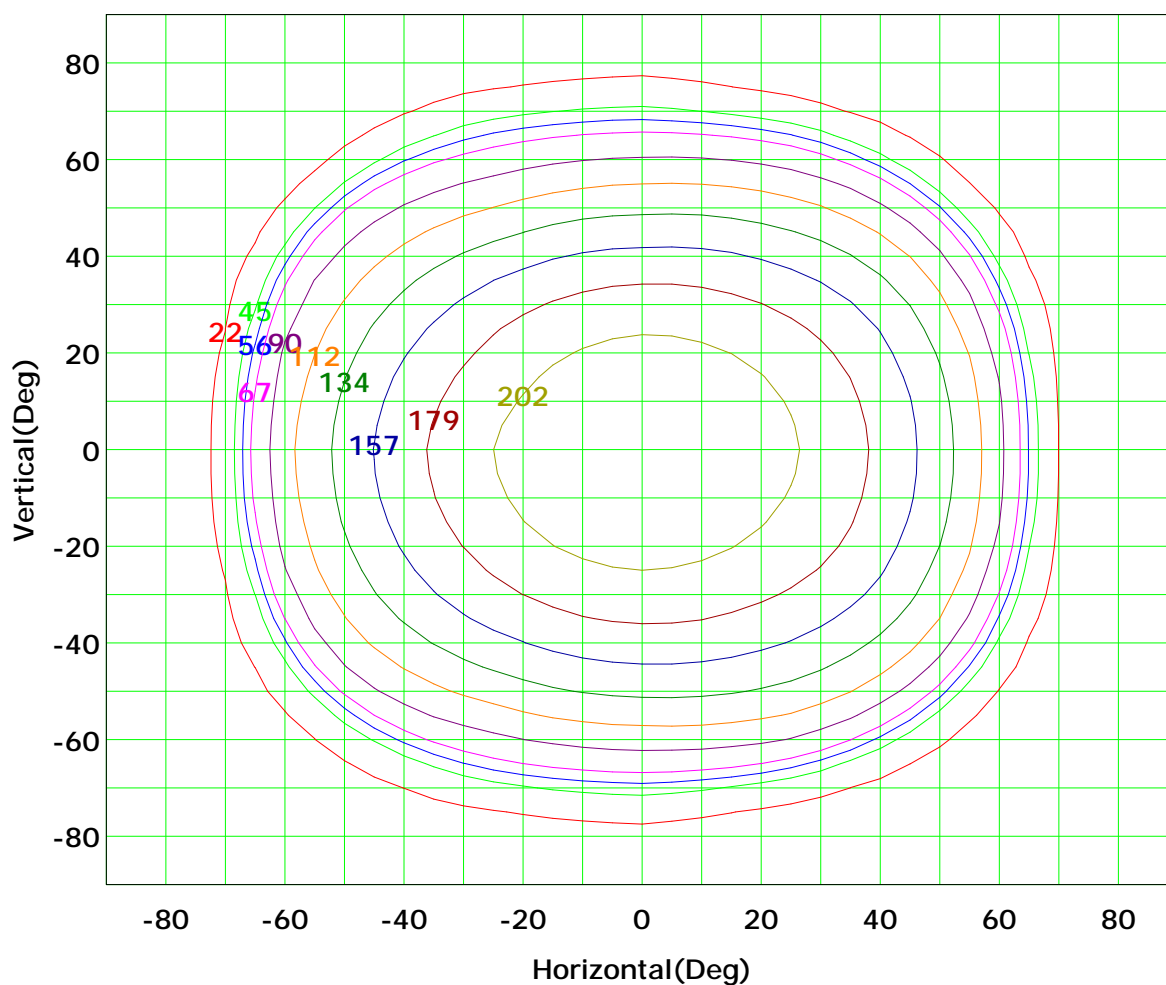
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 224 cd

(10%): 22 cd	(20%): 45 cd
(25%): 56 cd	(30%): 67 cd
(40%): 90 cd	(50%): 112 cd
(60%): 134 cd	(70%): 157 cd
(80%): 179 cd	(90%): 202 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

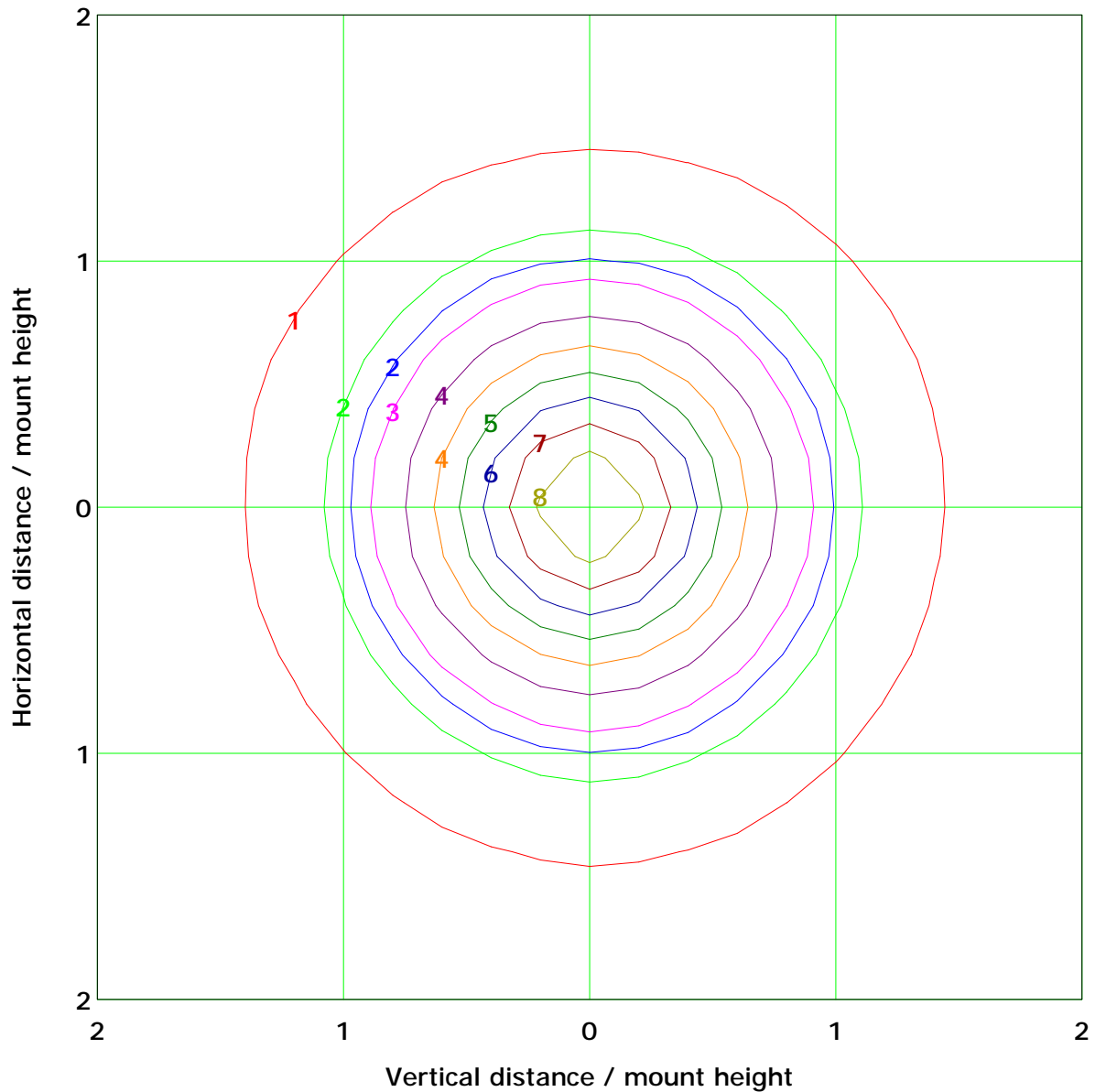
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 9.0 lx

(10%): 0.9 lx	(20%): 1.8 lx
(25%): 2.2 lx	(30%): 2.7 lx
(40%): 3.6 lx	(50%): 4.5 lx
(60%): 5.4 lx	(70%): 6.3 lx
(80%): 7.2 lx	(90%): 8.1 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

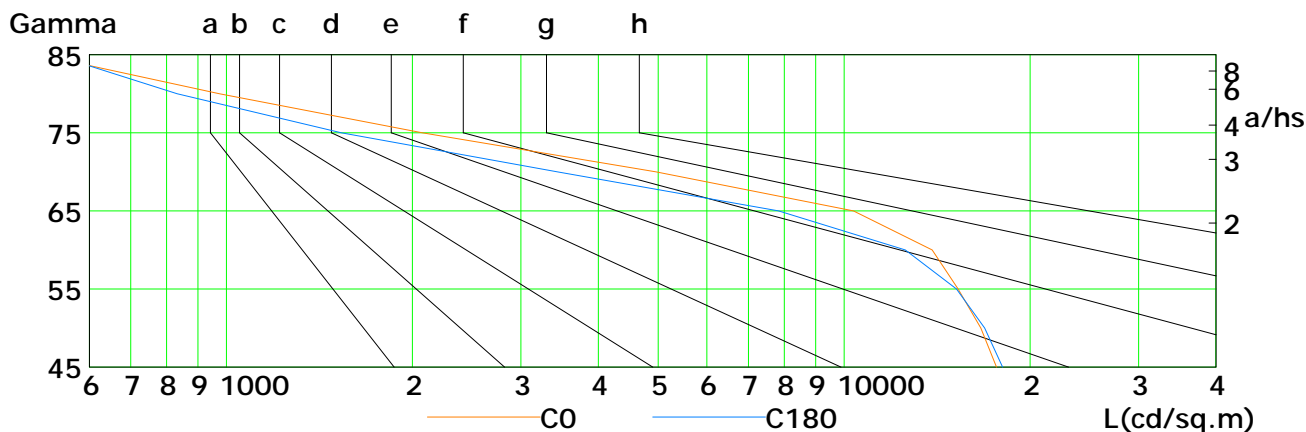
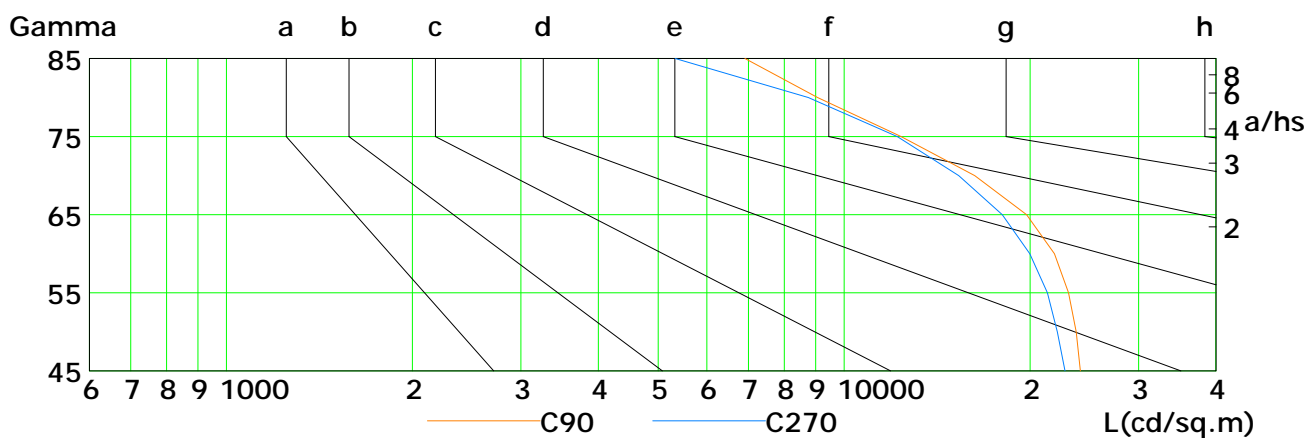
Humidity: 60%

Inspector:

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	17645	16653	15294	13895	10352	4964	2077	975	499
C90	24144	23751	23089	21898	19747	16277	12366	9059	6910
C180	18059	16887	15214	12572	7836	3436	1536	832	526
C270	22802	22149	21345	19992	18038	15335	12192	8750	5331

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

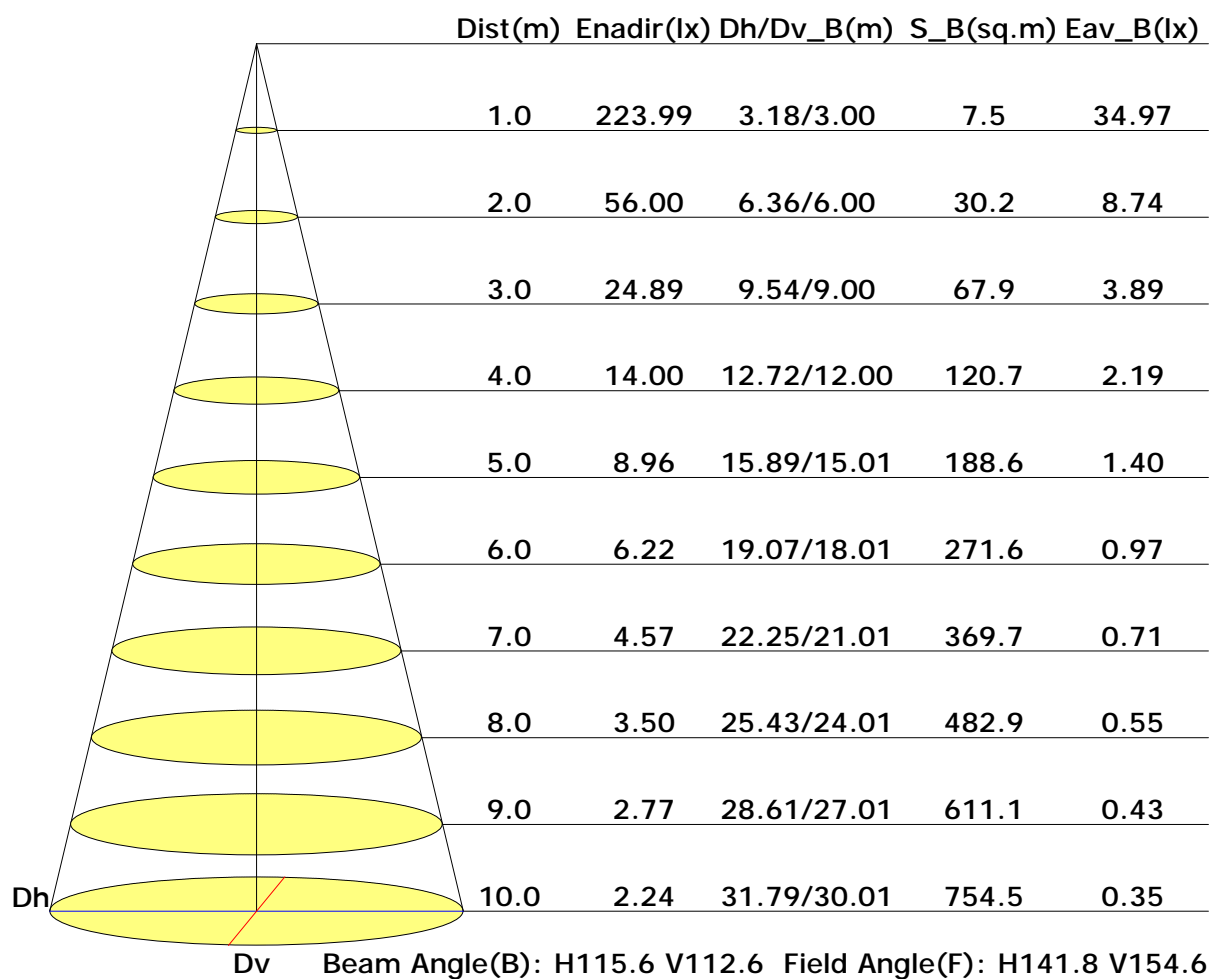
Test Device: GPM-1800B

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

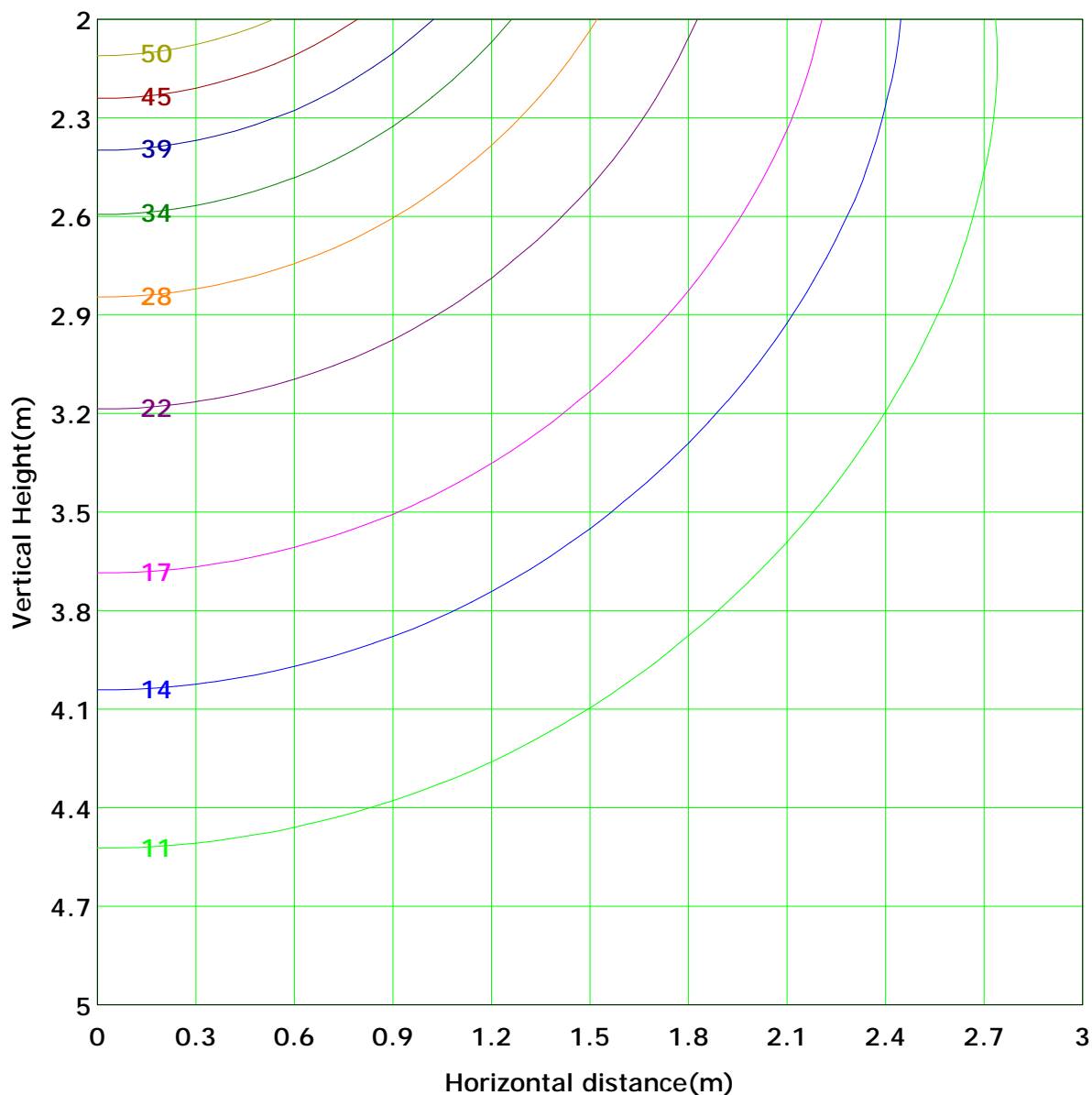
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 56.0 lx
(10%): 5.6 lx	(20%): 11.2 lx	
(25%): 14.0 lx	(30%): 16.8 lx	
(40%): 22.4 lx	(50%): 28.0 lx	
(60%): 33.6 lx	(70%): 39.2 lx	
(80%): 44.8 lx	(90%): 50.4 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:

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	Flux(T)	Flux(E)
Horizontal plane	-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	0.1	0.0
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9	0.0
	-70	0.0	0.0	0.1	0.1	0.2	0.2	0.4	0.5	0.7	0.8	0.8	0.7	0.6	0.4	0.2	0.1	0.0	0.0	0.0	5.7	4.7
	-60	0.0	0.0	0.2	0.5	0.9	1.4	2.7	1.8	2.0	2.1	2.1	2.1	1.9	1.5	1.0	0.5	0.1	0.0	0.0	18.4	17.5
	-50	0.0	0.0	0.4	1.2	2.1	3.0	4.1	3.1	3.3	3.4	3.4	3.3	3.1	2.8	2.2	1.3	0.5	0.1	0.0	33.3	32.5
	-40	0.0	0.1	0.6	2.1	3.7	4.5	5.0	4.1	4.5	4.6	4.6	4.5	4.2	3.8	3.2	2.3	1.1	0.3	0.1	47.4	46.6
	-30	0.0	0.1	0.8	2.8	4.5	5.1	5.7	5.0	5.4	5.6	5.6	5.4	5.1	4.6	3.9	3.0	1.7	0.5	0.1	59.1	58.3
	-20	0.0	0.1	1.0	3.2	5.1	6.1	6.7	6.0	6.4	6.6	6.7	6.3	6.1	5.2	4.4	3.5	2.1	0.7	0.2	67.4	66.7
	-10	0.0	0.1	1.2	3.6	5.7	6.8	7.4	6.6	7.0	7.2	7.3	7.0	6.7	5.7	4.7	3.7	2.3	0.9	0.2	71.8	71.1
	0	0.0	0.1	1.4	4.0	6.3	7.5	8.1	7.2	7.6	7.8	7.9	7.6	7.3	6.3	5.3	4.3	2.9	1.1	0.4	71.6	70.9
	10	0.0	0.1	1.6	4.4	6.7	8.0	8.6	7.6	8.0	8.2	8.3	8.0	7.7	6.7	5.7	4.7	3.3	1.3	0.5	66.6	65.9
	20	0.0	0.1	1.8	4.8	7.1	8.4	9.0	8.0	8.4	8.6	8.7	8.4	8.1	7.1	6.1	5.1	3.7	1.7	0.8	57.8	57.1
	30	0.0	0.1	2.0	5.2	7.5	8.8	9.4	8.4	8.8	9.0	9.1	8.8	8.5	7.5	6.5	5.5	4.1	2.1	1.0	46.3	45.5
	40	0.0	0.1	2.2	5.6	7.9	9.2	9.8	8.8	9.2	9.4	9.5	9.2	8.9	7.9	6.9	5.9	4.5	2.5	1.2	33.1	32.3
	50	0.0	0.1	2.4	6.0	8.3	9.6	10.2	9.2	9.6	9.8	9.9	9.6	9.3	8.3	7.3	6.3	4.9	2.9	1.4	19.5	18.7
	60	0.0	0.1	2.6	6.4	8.7	10.0	10.6	9.6	10.0	10.2	10.3	10.0	9.7	8.7	7.7	6.7	5.3	3.3	1.6	7.2	6.3
	70	0.0	0.1	2.8	6.8	9.1	10.4	11.0	10.0	10.4	10.6	10.7	10.4	10.1	9.1	8.1	7.1	5.7	3.7	1.8	1.1	0.2
	80	0.0	0.1	3.0	7.2	9.5	10.8	11.4	10.4	10.8	11.0	11.1	10.8	10.5	9.5	8.5	7.5	6.1	4.1	2.0	0.1	0.0
	90	0.0	0.1	3.2	7.6	9.9	11.2	11.8	10.8	11.2	11.4	11.5	11.2	10.9	9.9	8.9	7.9	6.5	4.5	2.2	0.0	0.0
																					607	594

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

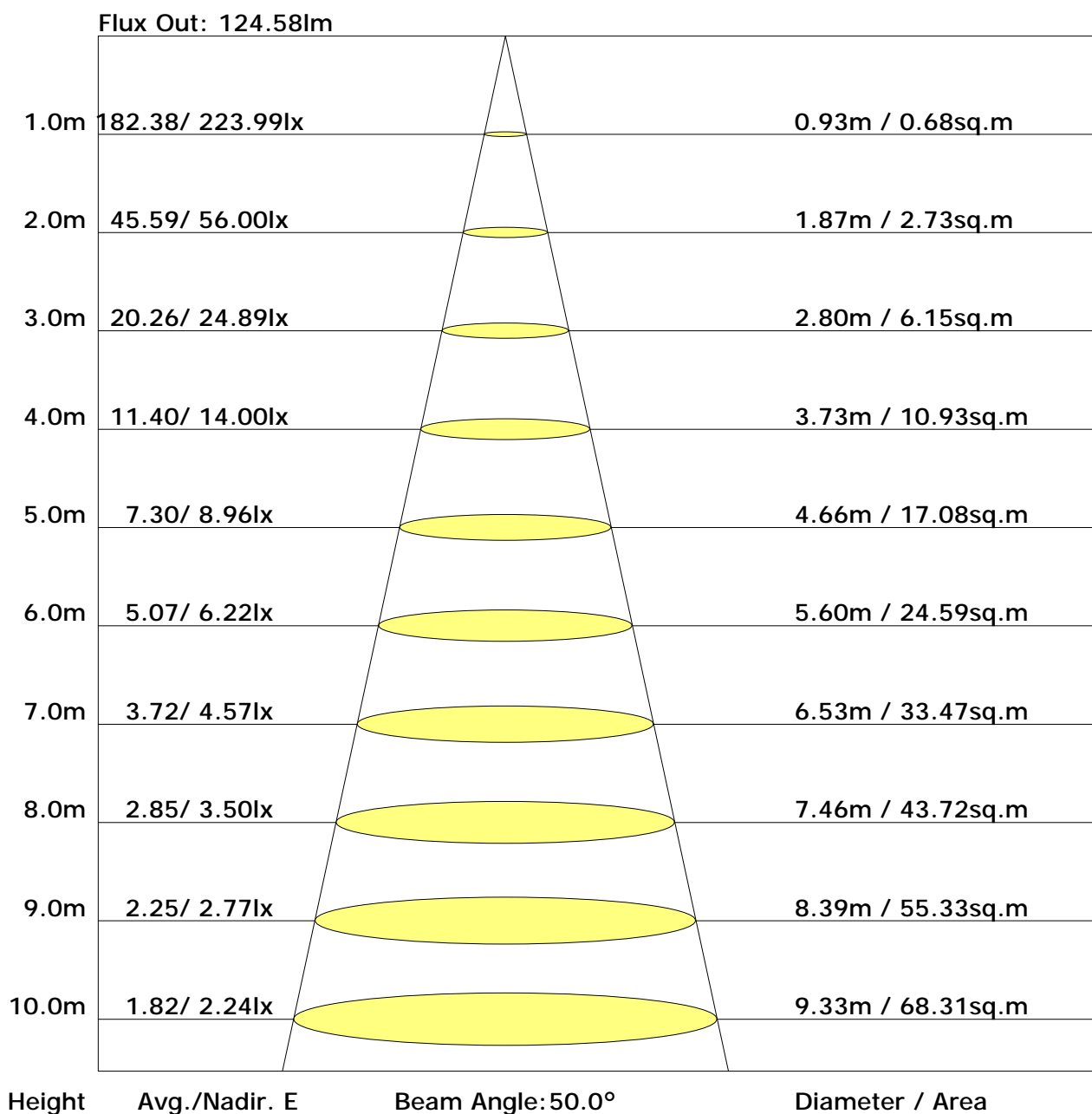
Test Device: GPM-1800B

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	24.5	26.1	24.9	26.4	26.7	23.5	25.1	23.9	25.4	25.7
3H	25.3	26.7	25.6	27.0	27.4	24.6	26.0	25.0	26.3	26.7
4H	25.3	26.6	25.7	27.0	27.4	24.8	26.1	25.2	26.5	26.9
6H	25.3	26.5	25.7	26.9	27.3	24.9	26.1	25.3	26.5	26.9
8H	25.2	26.4	25.7	26.8	27.2	24.9	26.0	25.3	26.4	26.8
12H	25.2	26.3	25.7	26.7	27.2	24.8	26.0	25.3	26.4	26.8
X=4H Y=2H	24.8	26.1	25.2	26.5	26.9	24.0	25.3	24.4	25.7	26.1
3H	25.6	26.7	26.0	27.1	27.5	25.1	26.2	25.6	26.6	27.1
4H	25.7	26.7	26.1	27.1	27.5	25.4	26.4	25.8	26.8	27.2
6H	25.7	26.5	26.1	27.0	27.5	25.5	26.3	26.0	26.8	27.3
8H	25.7	26.4	26.1	26.9	27.4	25.5	26.3	26.0	26.8	27.2
12H	25.6	26.3	26.1	26.8	27.3	25.5	26.2	26.0	26.7	27.2
X=8H Y=4H	25.7	26.5	26.2	26.9	27.4	25.4	26.2	25.8	26.6	27.1
6H	25.7	26.3	26.2	26.8	27.3	25.5	26.1	26.0	26.7	27.2
8H	25.7	26.2	26.2	26.8	27.3	25.5	26.1	26.0	26.6	27.1
12H	25.6	26.2	26.2	26.7	27.2	25.5	26.0	26.1	26.5	27.1
X=12H Y=4H	25.7	26.4	26.2	26.9	27.4	25.3	26.1	25.8	26.5	27.0
6H	25.7	26.2	26.2	26.7	27.3	25.5	26.1	26.0	26.5	27.1
8H	25.6	26.2	26.2	26.7	27.2	25.5	26.0	26.0	26.5	27.1

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 = 1.25								
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	0.58	0.69	0.77	0.82	0.90	0.94	0.98	1.02	1.05
	0.30		0.51	0.62	0.70	0.76	0.84	0.89	0.93	0.98	1.01
	0.20		0.45	0.56	0.64	0.71	0.79	0.85	0.89	0.95	0.99
0.50	0.50	0.20	0.57	0.67	0.74	0.79	0.86	0.91	0.94	0.98	1.00
	0.30		0.50	0.61	0.68	0.74	0.81	0.87	0.90	0.95	0.98
	0.20		0.45	0.56	0.63	0.69	0.77	0.83	0.87	0.92	0.95
0.30	0.50	0.20	0.55	0.65	0.72	0.77	0.83	0.87	0.90	0.94	0.96
	0.30		0.49	0.59	0.67	0.72	0.79	0.84	0.87	0.92	0.94
	0.20		0.44	0.55	0.63	0.68	0.76	0.81	0.85	0.89	0.92
0.00	0.00	0.00	0.42	0.52	0.60	0.65	0.72	0.77	0.80	0.85	0.87
<p>Rating:8W 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 = 1.25									
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	0.97	0.79	0.66	0.57	0.45	0.37	0.31	0.24	0.19	
	0.30		0.81	0.67	0.58	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.93	0.76	0.63	0.54	0.43	0.38	0.30	0.23	0.18	
	0.30		0.79	0.66	0.56	0.49	0.39	0.32	0.28	0.21	0.18	
	0.20		0.69	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.91	0.72	0.61	0.52	0.41	0.33	0.28	0.21	0.17	
	0.30		0.77	0.64	0.54	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.68	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.57	0.47	0.40	0.34	0.27	0.22	0.19	0.15	0.12	
<p>Rating:8W 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 = 1.25								
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	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
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:8W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											