

Report No.:

Test Time: 2018/8/24 11:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: AC RIBBONLYTE

Luminous Length (mm): 600

Luminous Height (mm): 5

Current: 0.072 A

Power Factor: 0.943

Luminaire Description: RBHIAC65120460

Luminous Width (mm): 15

Voltage: 119.6 V

Power: 8.12 W

Photometric Results

CIE Class: Direct

Measurement Flux: 618.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H116.4

Vertical Diffuse Angle(50%): V113.9

Luminaire Efficacy Rating (LER): 76

Max. Intensity: 222.48 cd

Total Rated Lamp Lumens: 618.6 lm

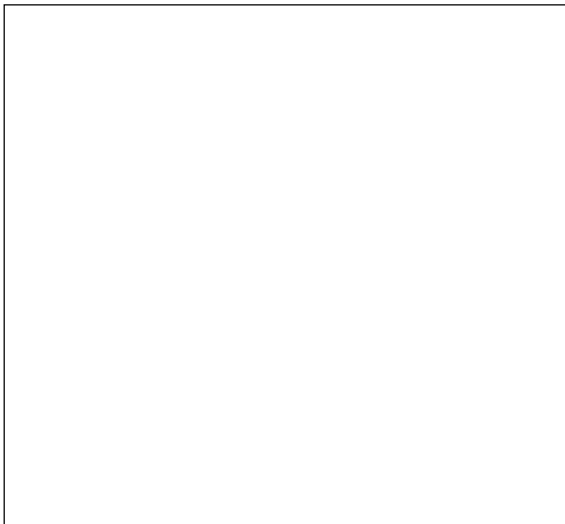
Efficiency: 100%

Upward Ratio: 1%

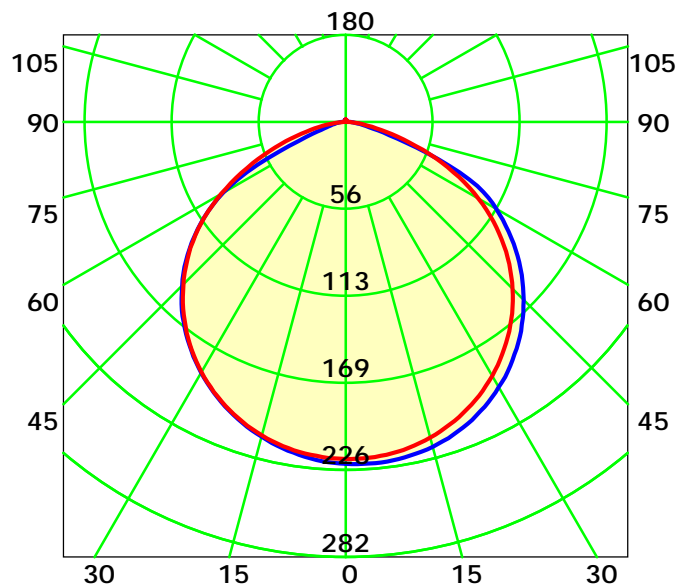
Central Intensity: 222.01 cd

Pos of Max. Intensity: H0 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 115.1° 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

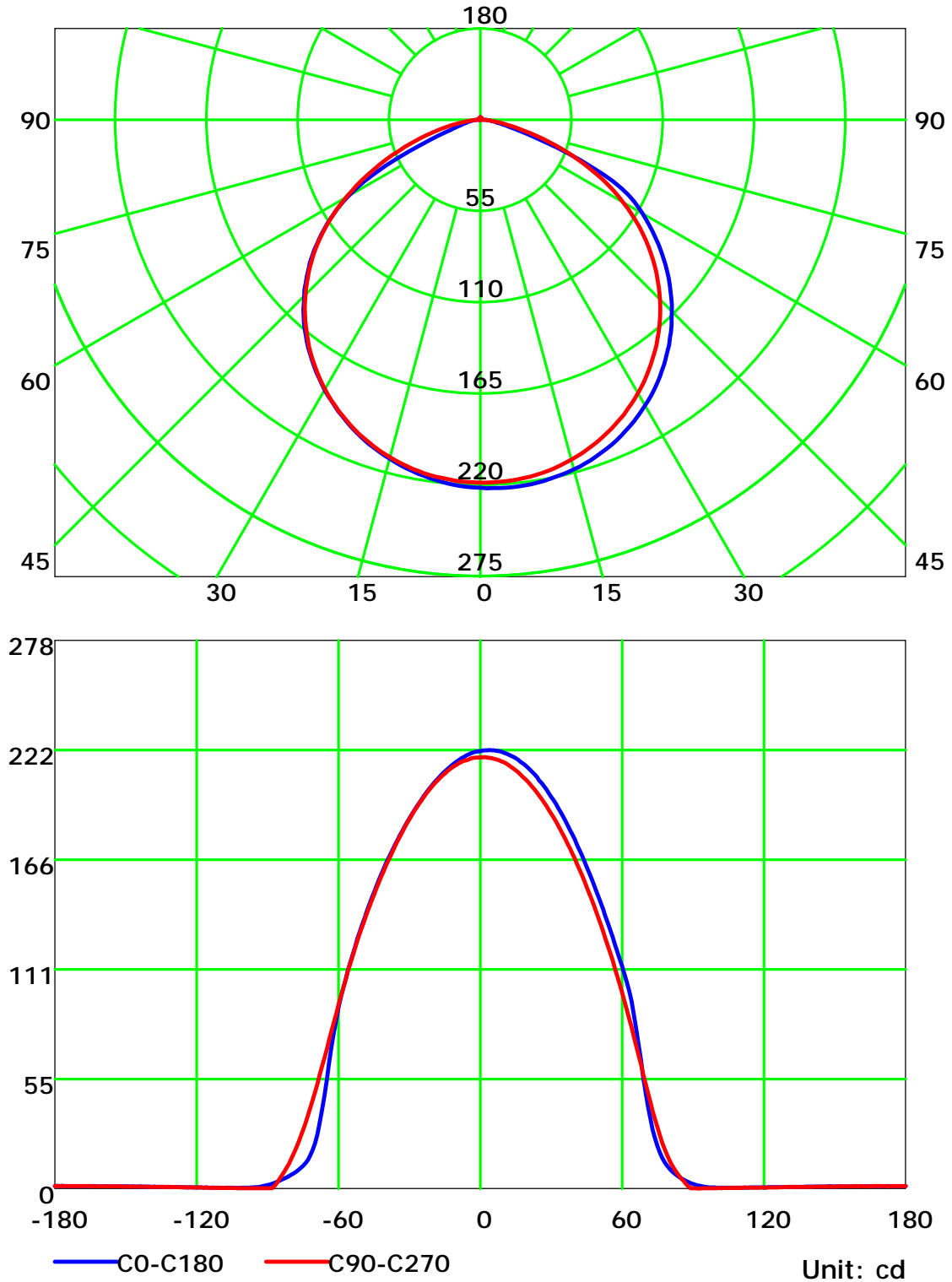
Test Device: GPM-1800B

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

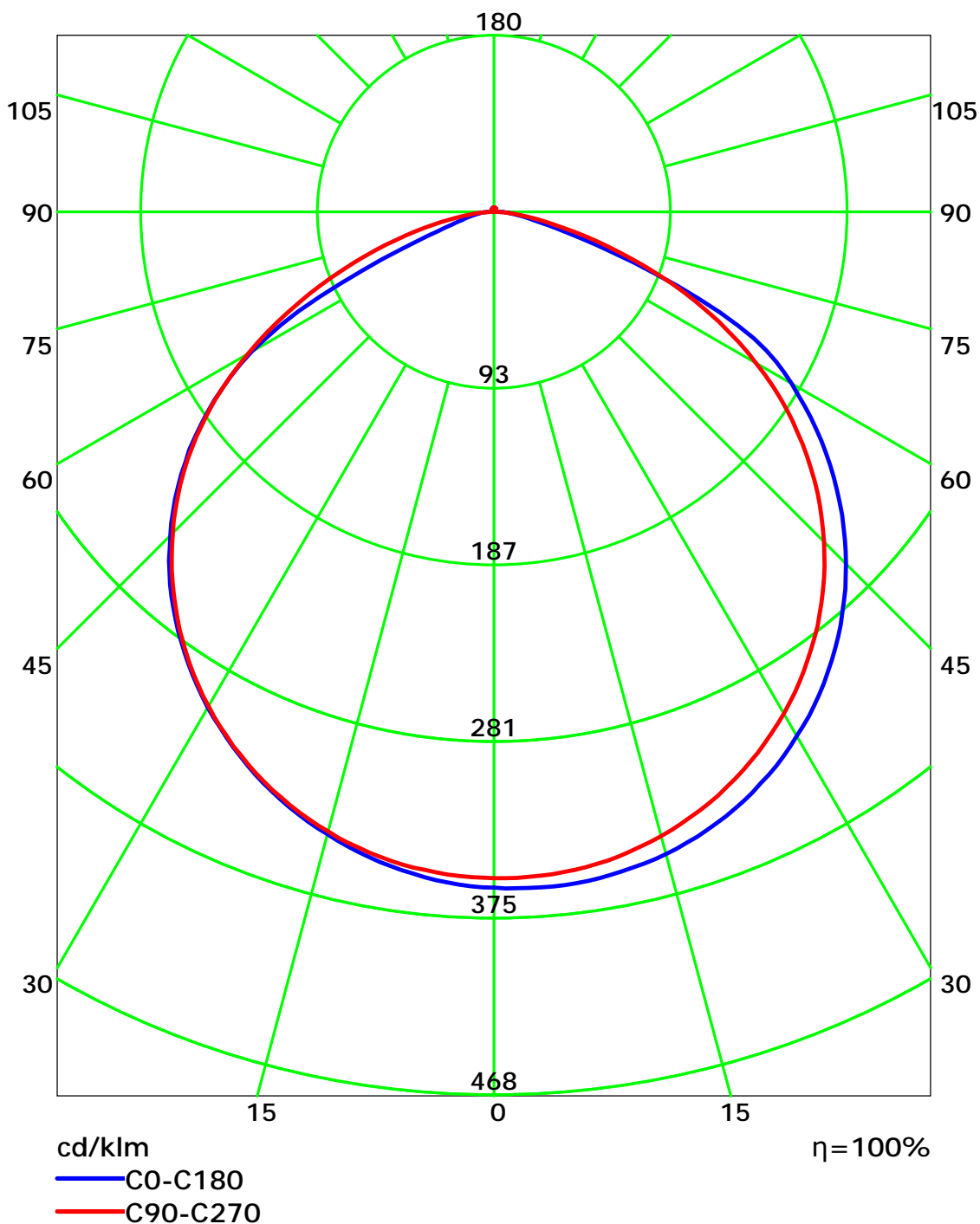
Test Device: GPM-1800B

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:

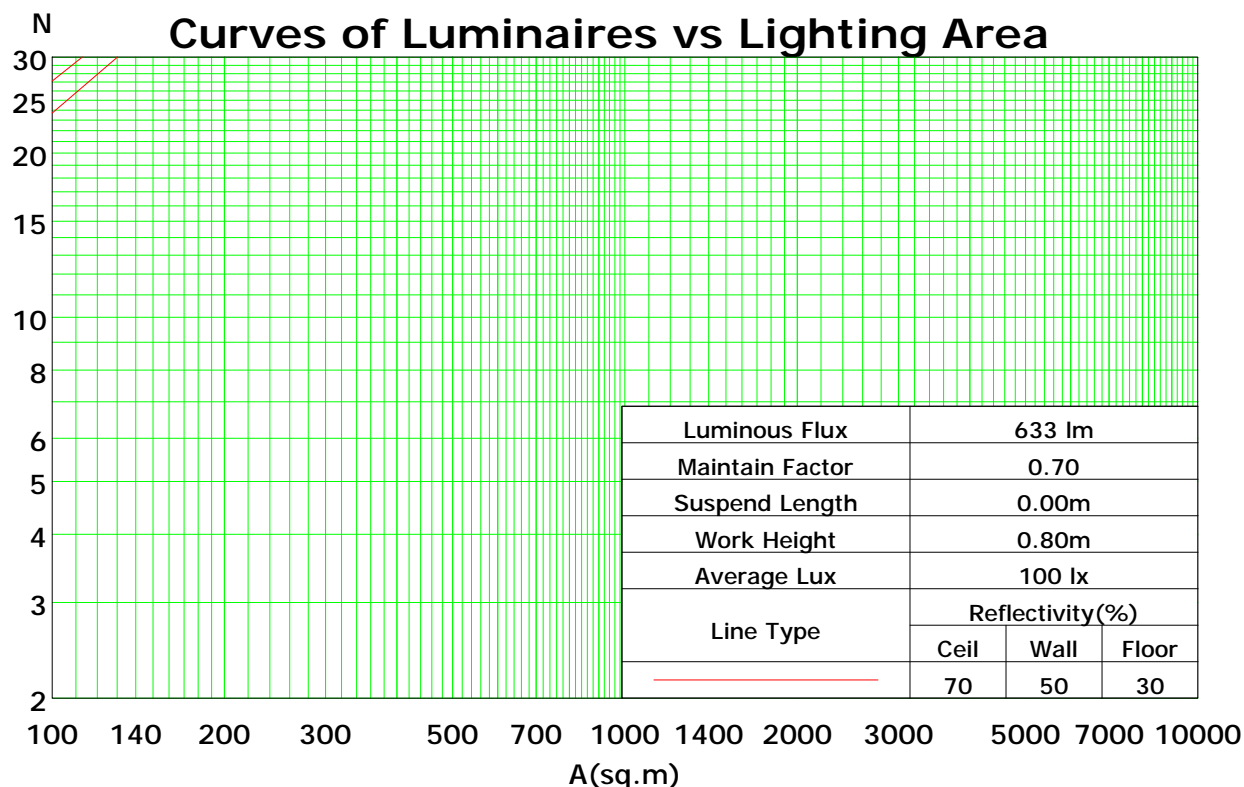
Coefficients Of Utilization - Zonal Cavity Method

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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	84	72	63	57	81	70	63	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	51	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	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

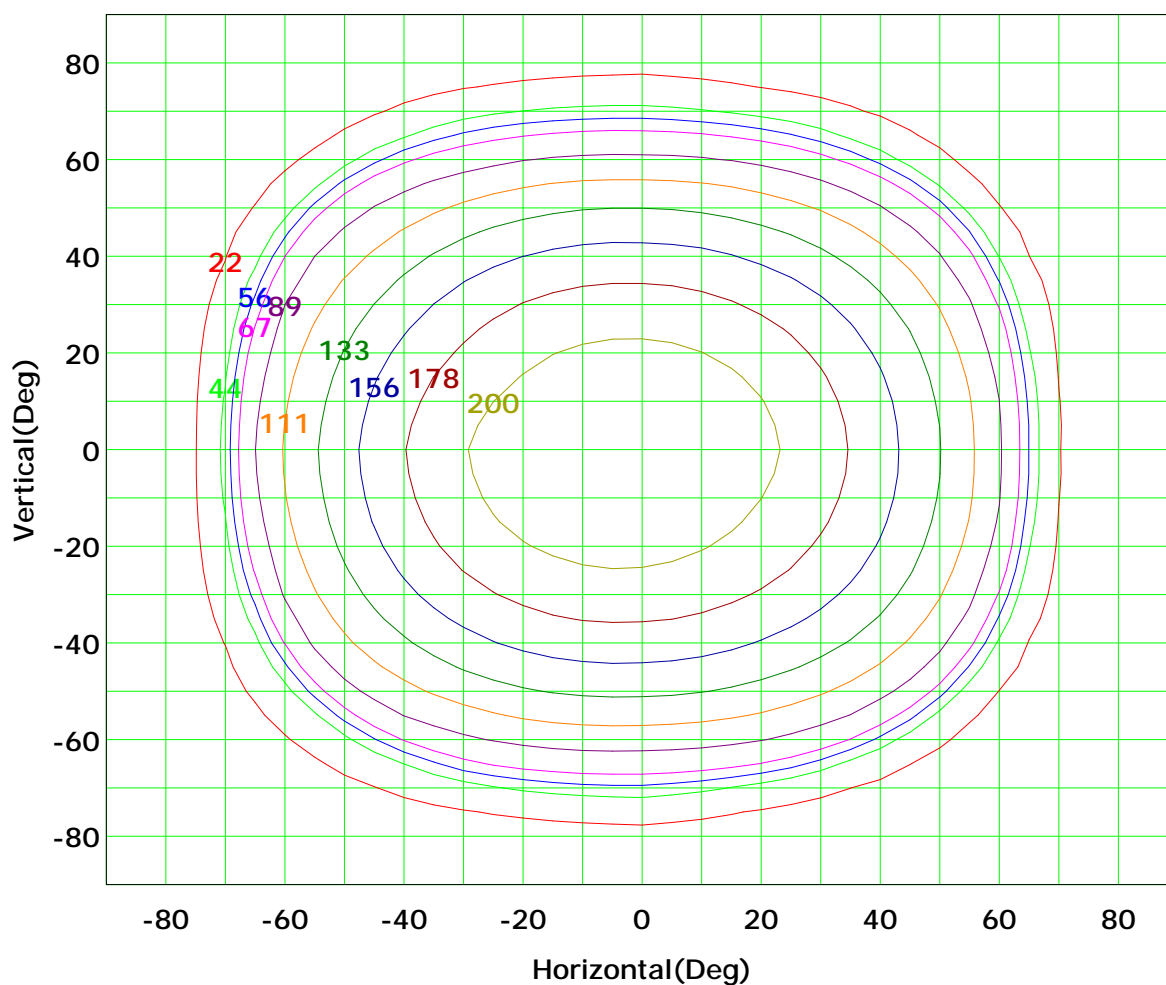
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 222 cd

(10%): 22 cd	(20%): 44 cd
(25%): 56 cd	(30%): 67 cd
(40%): 89 cd	(50%): 111 cd
(60%): 133 cd	(70%): 156 cd
(80%): 178 cd	(90%): 200 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

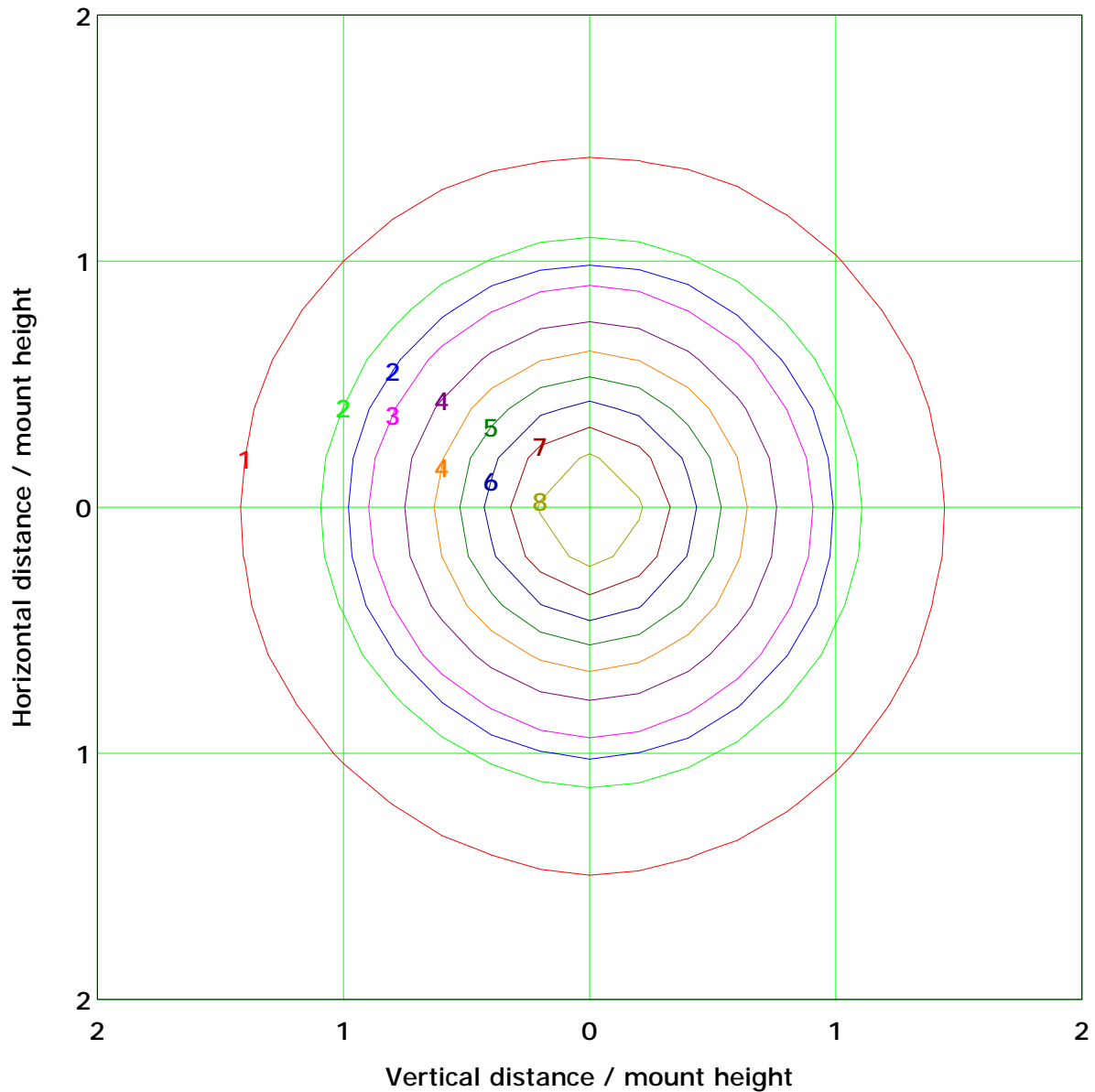
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 8.9 lx

(10%): 0.9 lx	(20%): 1.8 lx
(25%): 2.2 lx	(30%): 2.7 lx
(40%): 3.6 lx	(50%): 4.4 lx
(60%): 5.3 lx	(70%): 6.2 lx
(80%): 7.1 lx	(90%): 8.0 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

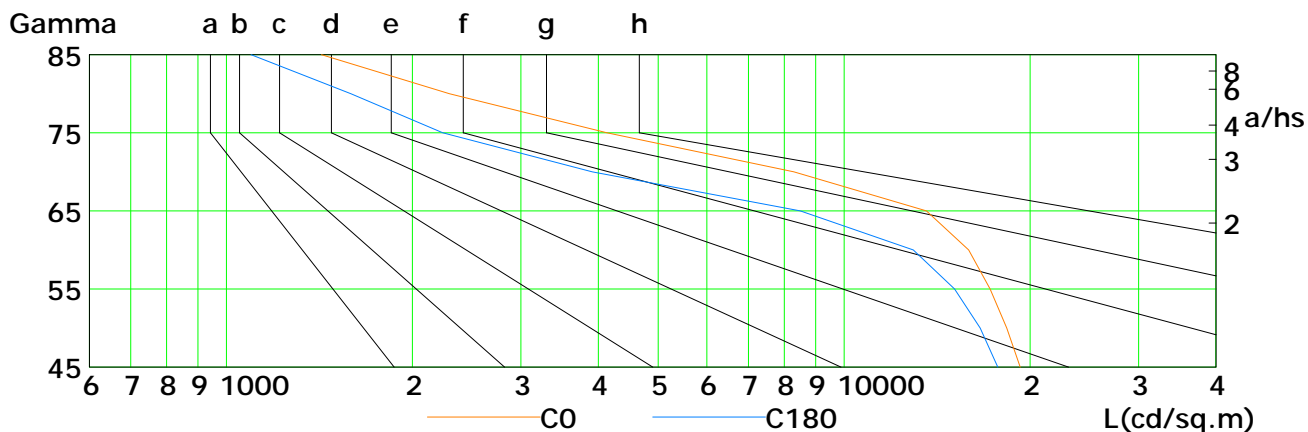
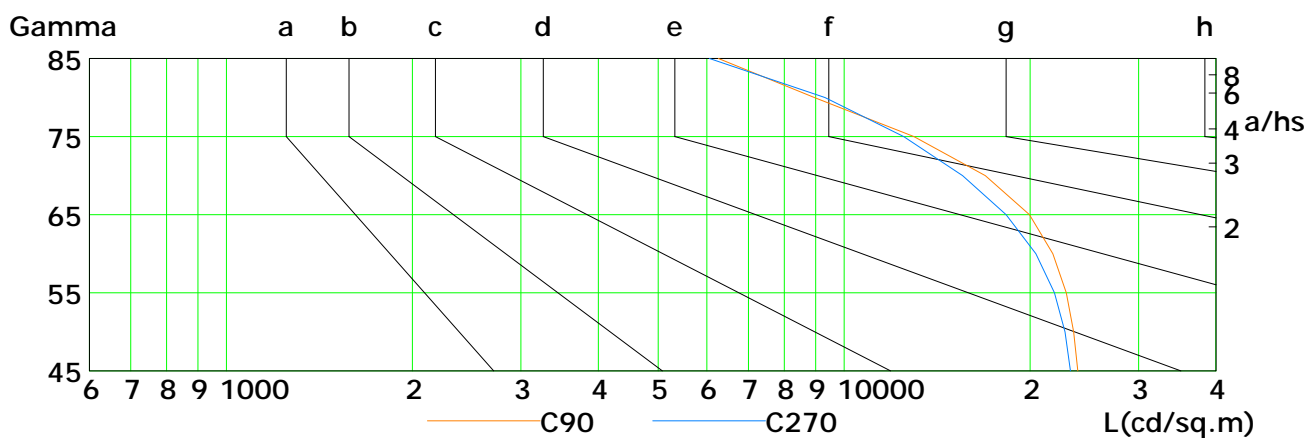
Humidity: 60%

Inspector:

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	19276	18340	17237	15910	13588	8300	4132	2298	1426
C90	23891	23539	22907	21792	19958	16934	12974	8951	6262
C180	17730	16605	15100	12951	8492	3912	2242	1592	1097
C270	23249	22778	21912	20454	18295	15553	12486	9318	6053

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

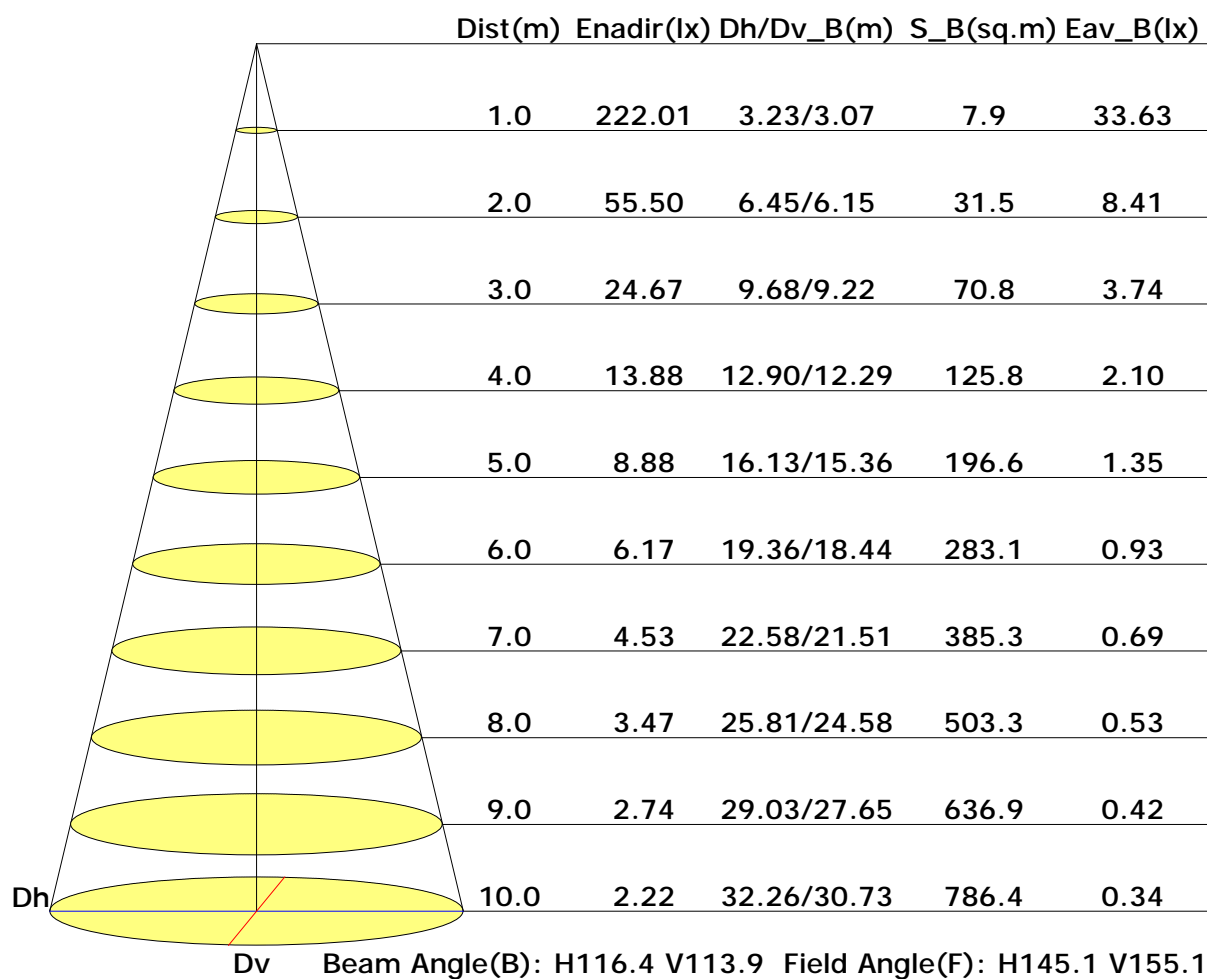
Test Device: GPM-1800B

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

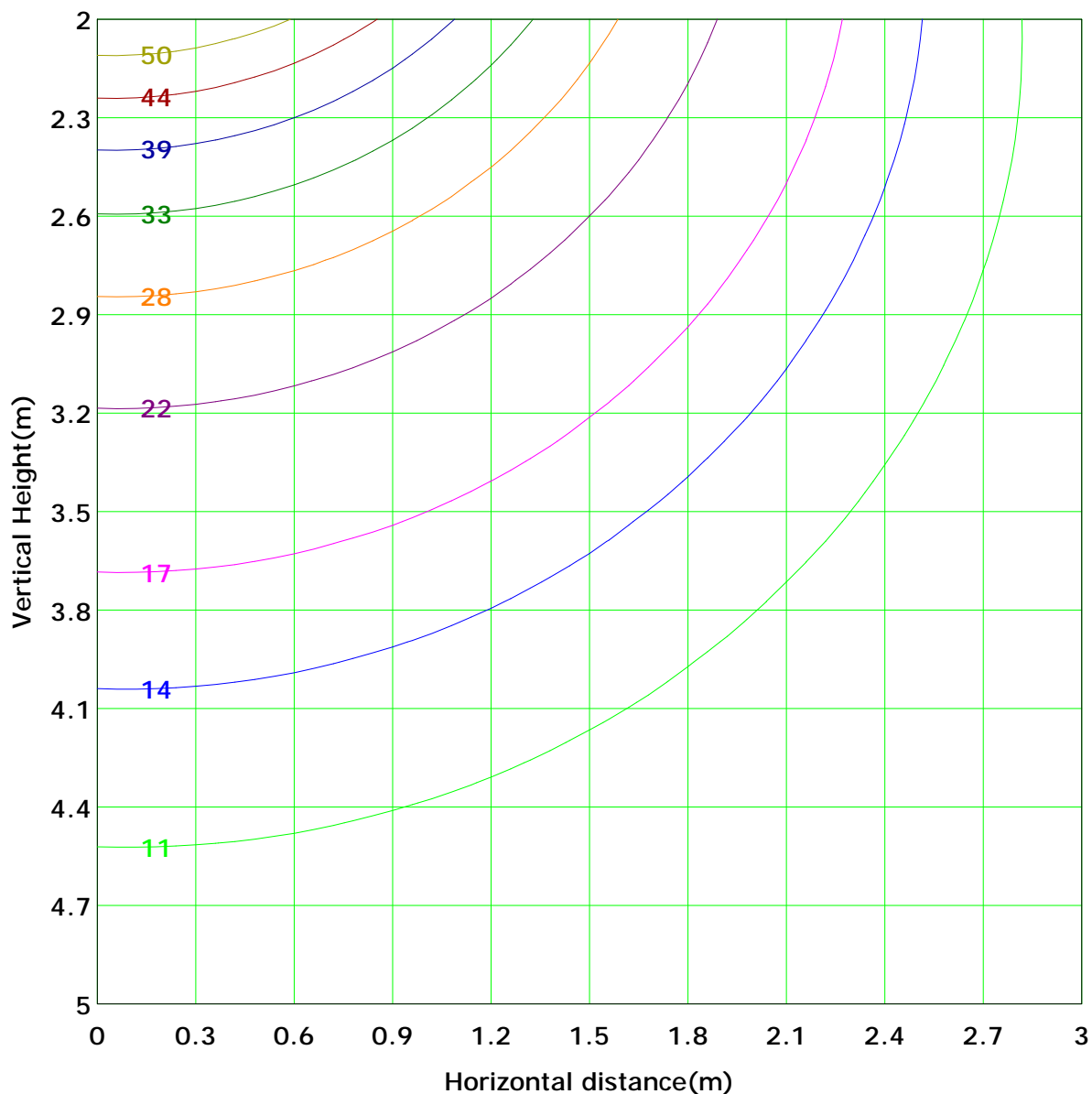
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 55.5 lx
(10%): 5.6 lx	(20%): 11.1 lx	
(25%): 13.9 lx	(30%): 16.7 lx	
(40%): 22.2 lx	(50%): 27.8 lx	
(60%): 33.3 lx	(70%): 38.9 lx	
(80%): 44.4 lx	(90%): 50.0 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:

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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0
	-80	0.0	0.0	0.1	0.1	0.2	0.4	0.6	0.7	0.9	0.9	0.8	0.7	0.5	0.3	0.1	0.1	0.0	0.0	0.0	6.4	1.5
	-70	0.0	0.0	0.1	0.2	0.6	1.1	1.6	1.9	2.1	2.2	2.0	1.7	1.3	0.7	0.3	0.1	0.0	0.0	0.0	16.0	3.7
	-60	0.0	0.1	0.2	0.5	1.3	2.1	2.7	3.2	3.4	3.5	3.3	2.8	2.3	1.6	0.7	0.3	0.1	0.0	0.0	27.8	15.0
	-50	0.0	0.1	0.3	1.0	2.0	2.9	3.6	4.2	4.5	4.5	4.3	3.8	3.0	2.2	1.3	0.7	0.2	0.1	0.0	38.1	37.7
	-40	0.0	0.1	0.4	1.4	2.5	3.5	4.3	5.0	5.3	5.3	5.1	4.5	3.6	2.7	1.7	0.7	0.1	0.0	0.0	46.1	45.9
	-30	0.0	0.1	0.6	1.7	2.9	3.9	4.8	5.5	5.9	6.0	5.6	5.0	4.1	3.0	2.0	0.9	0.2	0.0	0.0	52.2	52.0
	-20	0.0	0.1	0.7	1.9	3.1	4.2	5.2	5.9	6.3	6.4	6.0	5.4	4.4	3.3	2.2	1.0	0.2	0.0	0.0	56.4	56.2
	-10	0.0	0.1	0.7	2.0	3.2	4.4	5.4	6.2	6.6	6.6	6.3	5.6	4.6	3.5	2.3	1.1	0.2	0.0	0.0	58.8	58.6
	0	0.0	0.1	0.7	2.0	3.2	4.4	5.4	6.1	6.6	6.6	6.4	5.7	4.7	3.5	2.3	1.1	0.2	0.0	0.0	59.0	58.8
	10	0.0	0.1	0.7	1.9	3.1	4.2	5.2	5.9	6.4	6.4	6.1	5.5	4.5	3.4	2.2	1.0	0.2	0.0	0.0	56.9	56.7
	20	0.0	0.1	0.6	1.8	2.9	4.0	4.9	5.6	6.0	6.0	5.7	5.1	4.2	3.1	2.0	0.9	0.2	0.0	0.0	53.1	52.8
	30	0.0	0.1	0.4	1.4	2.6	3.6	4.4	5.0	5.4	5.4	5.2	4.6	3.8	2.8	1.8	0.7	0.1	0.0	0.0	47.2	46.9
	40	0.0	0.1	0.2	1.0	2.1	3.0	3.7	4.3	4.6	4.6	4.4	3.9	3.2	2.3	1.3	0.4	0.1	0.0	0.0	39.3	38.9
	50	0.0	0.1	0.2	0.5	1.3	2.2	2.8	3.3	3.6	3.6	3.4	3.0	2.4	1.6	0.8	0.3	0.1	0.0	0.0	29.1	28.6
	60	0.0	0.0	0.1	0.2	0.5	1.1	1.6	2.1	2.3	2.3	2.2	1.9	1.4	0.8	0.4	0.1	0.1	0.0	0.0	17.1	16.0
	70	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.0	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0	0.0	6.5	3.7
	80	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.6	0.0
	90	0.2	1.2	6.0	17.9	31.7	45.2	57.0	66.0	71.0	71.7	68.0	60.0	48.6	35.3	21.7	9.3	1.9	0.2	613		
	Flux(E)	0.0	0.0	4.8	16.9	30.8	44.4	56.3	65.2	70.4	71.1	67.3	59.3	47.9	34.5	20.8	8.4	0.8	0.0	599		

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

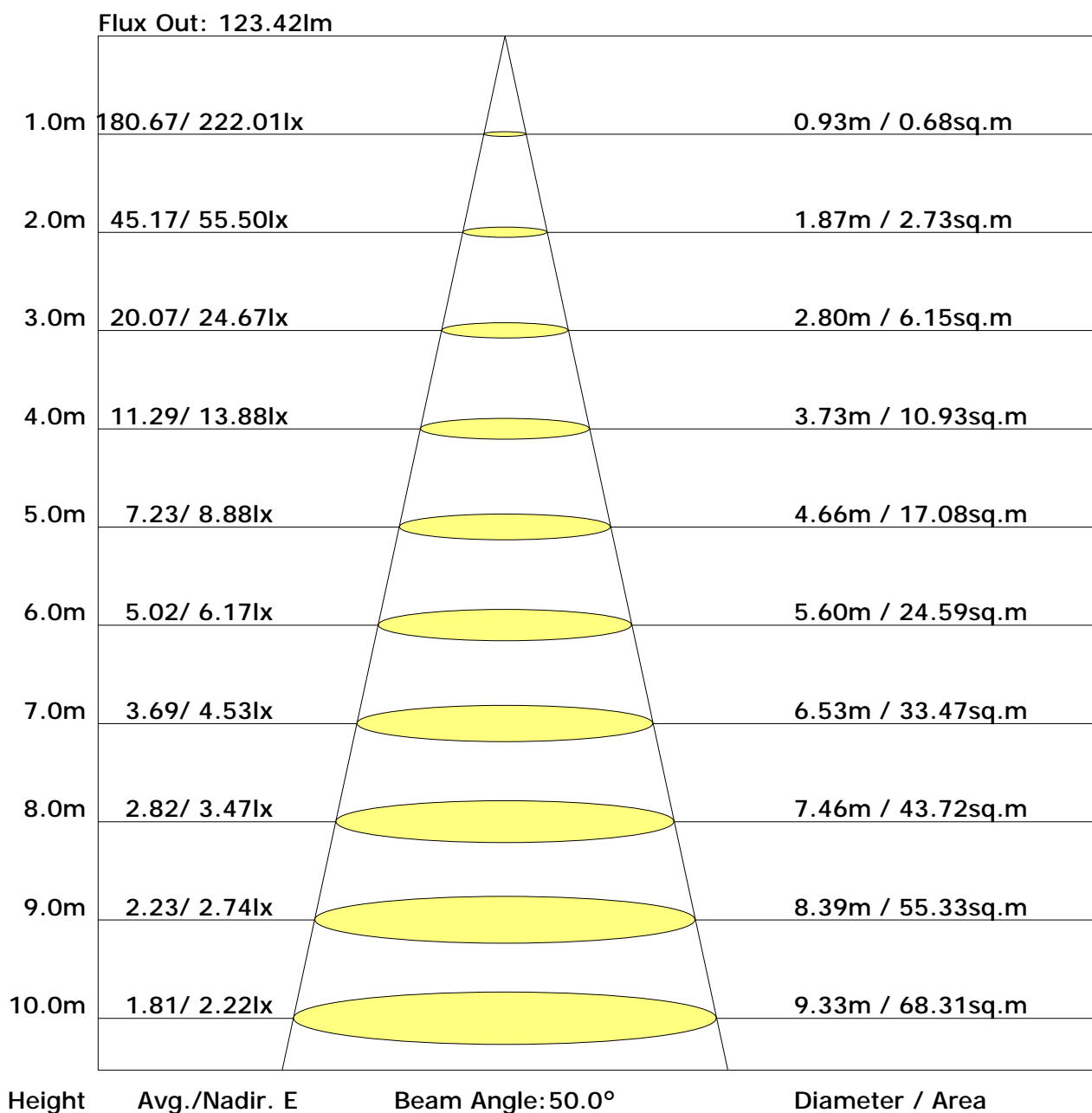
Test Device: GPM-1800B

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	24.9	26.5	25.3	26.8	27.2	23.6	25.2	24.0	25.5	25.8
3H	26.1	27.6	26.5	27.9	28.3	24.8	26.2	25.2	26.5	26.9
4H	26.3	27.6	26.7	28.0	28.4	25.0	26.4	25.4	26.7	27.1
6H	26.4	27.6	26.8	28.0	28.4	25.1	26.3	25.5	26.7	27.1
8H	26.4	27.5	26.8	27.9	28.4	25.1	26.3	25.5	26.7	27.1
12H	26.4	27.5	26.8	27.9	28.3	25.1	26.2	25.5	26.6	27.1
X=4H Y=2H	25.3	26.6	25.7	27.0	27.4	24.1	25.5	24.6	25.8	26.2
3H	26.6	27.7	27.0	28.1	28.5	25.4	26.5	25.8	26.9	27.3
4H	26.8	27.8	27.2	28.2	28.7	25.7	26.7	26.1	27.1	27.6
6H	26.9	27.7	27.3	28.2	28.7	25.8	26.7	26.3	27.1	27.6
8H	26.9	27.7	27.4	28.1	28.6	25.8	26.6	26.3	27.1	27.6
12H	26.9	27.6	27.4	28.1	28.6	25.8	26.5	26.3	27.0	27.5
X=8H Y=4H	26.8	27.6	27.3	28.1	28.5	25.7	26.5	26.2	27.0	27.5
6H	26.9	27.6	27.4	28.1	28.6	25.8	26.5	26.4	27.0	27.5
8H	26.9	27.5	27.4	28.0	28.5	25.9	26.5	26.4	27.0	27.5
12H	27.0	27.5	27.5	28.0	28.6	25.9	26.4	26.4	26.9	27.5
X=12H Y=4H	26.8	27.5	27.3	28.0	28.5	25.7	26.4	26.2	26.9	27.4
6H	26.9	27.5	27.4	28.0	28.5	25.8	26.4	26.4	26.9	27.5
8H	26.9	27.4	27.4	27.9	28.5	25.9	26.4	26.4	26.9	27.5

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 = 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	0.68	0.76	0.82	0.89	0.94	0.97	1.02	1.04
	0.30		0.50	0.61	0.69	0.75	0.83	0.89	0.92	0.98	1.01
	0.20		0.44	0.55	0.63	0.70	0.78	0.84	0.88	0.94	0.98
0.50	0.50	0.20	0.56	0.66	0.74	0.79	0.86	0.90	0.93	0.97	1.00
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.89	0.94	0.97
	0.20		0.44	0.55	0.63	0.68	0.77	0.82	0.86	0.92	0.95
0.30	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.87	0.90	0.94	0.96
	0.30		0.48	0.59	0.66	0.71	0.79	0.83	0.87	0.91	0.94
	0.20		0.44	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92
0.00	0.00	0.00	0.41	0.52	0.59	0.64	0.71	0.76	0.80	0.84	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	0.98	0.80	0.67	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.82	0.68	0.59	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.94	0.77	0.64	0.56	0.44	0.39	0.30	0.23	0.19	
	0.30		0.80	0.67	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.92	0.74	0.62	0.53	0.42	0.34	0.29	0.22	0.18	
	0.30		0.78	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.58	0.48	0.41	0.35	0.28	0.23	0.20	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	0.21	0.21	0.22	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	0.18	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											