

Report No.:

Test Time: 2018/8/30 17:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2245.024PH 1FT(320mm)

Luminous Length (mm): 320

Luminous Width (mm): 10

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.226 A

Power: 5.43 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 599.2 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H115.7

Vertical Diffuse Angle(50%): V115.6

Luminaire Efficacy Rating (LER): 110

Max. Intensity: 202.4 cd

Total Rated Lamp Lumens: 599.2 lm

Efficiency: 100%

Upward Ratio: 1%

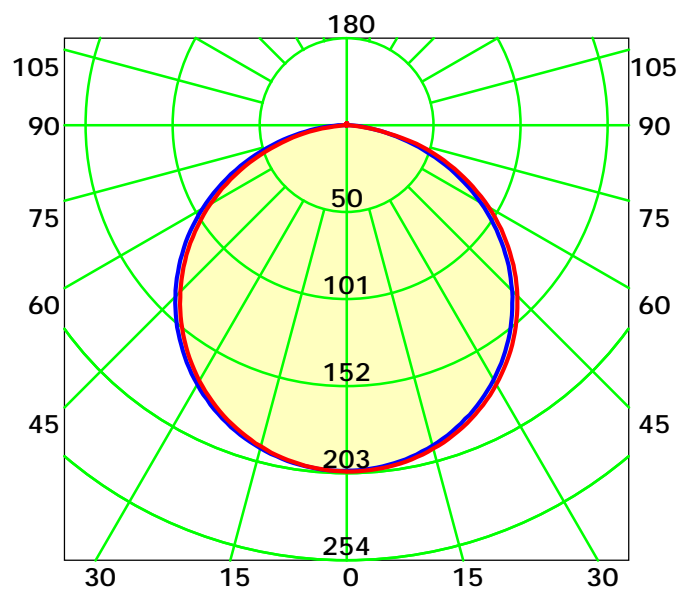
Central Intensity: 201.65 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 115.6° 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

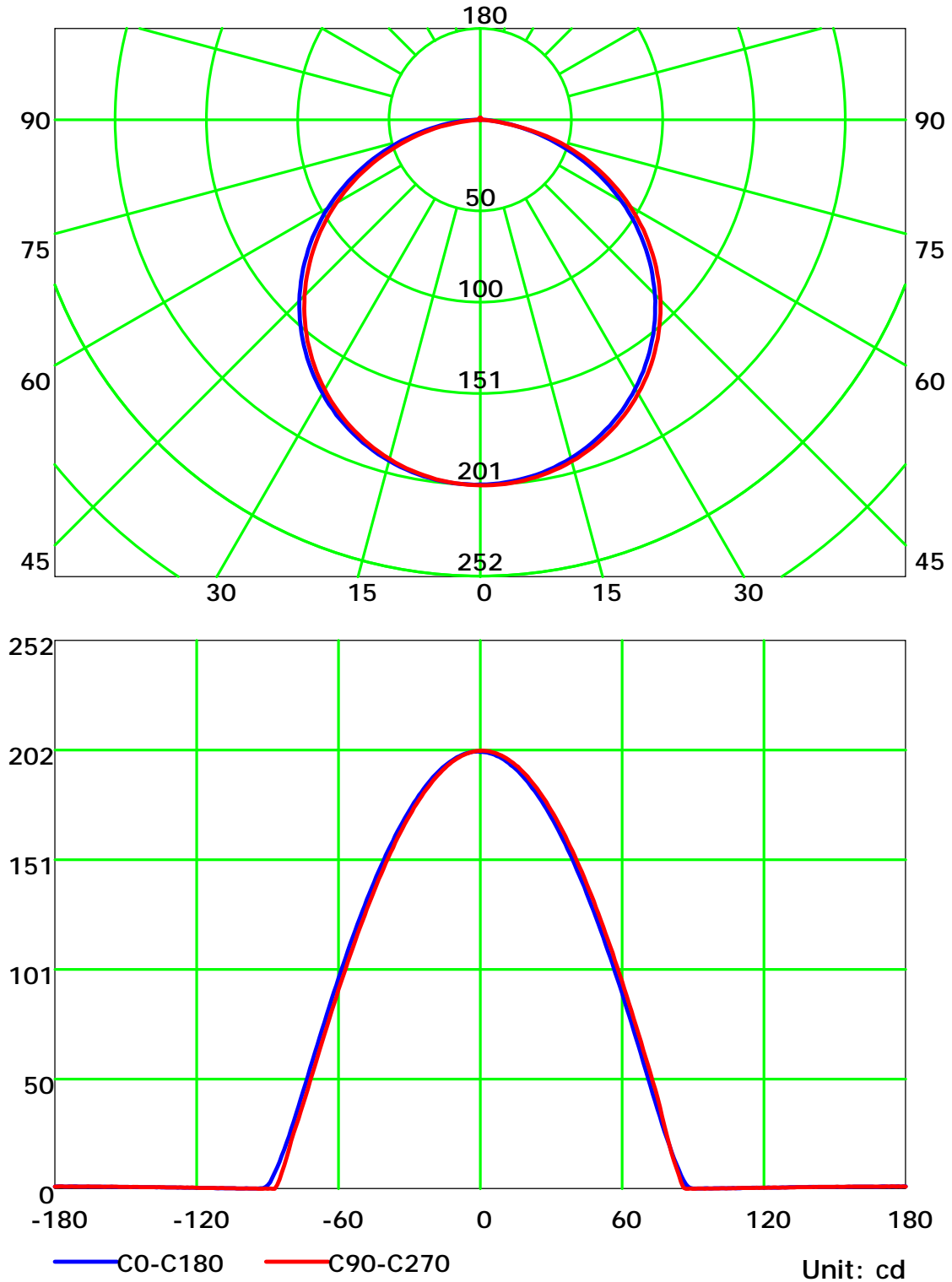
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

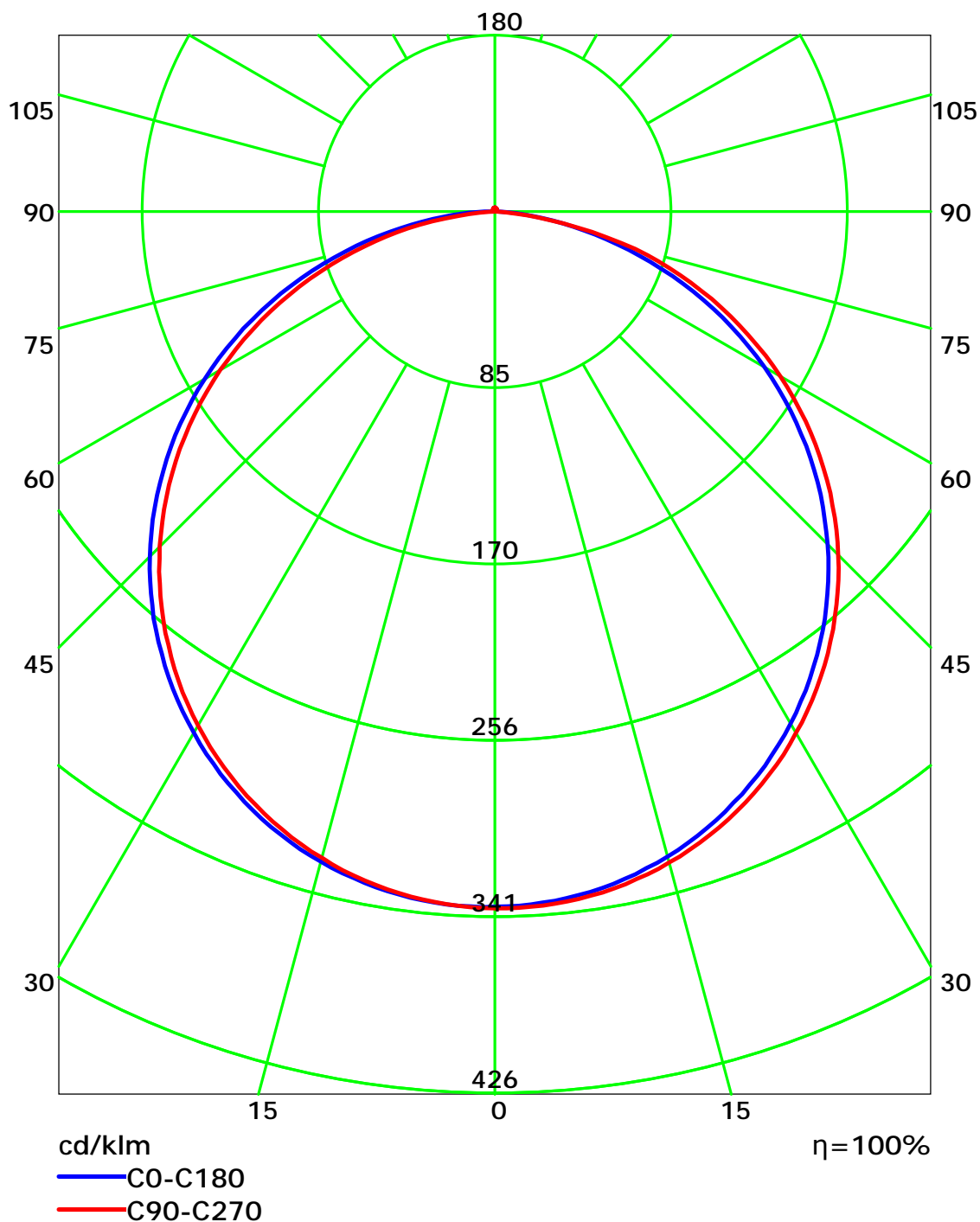
Luminous Intensity Distribution Curve



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:

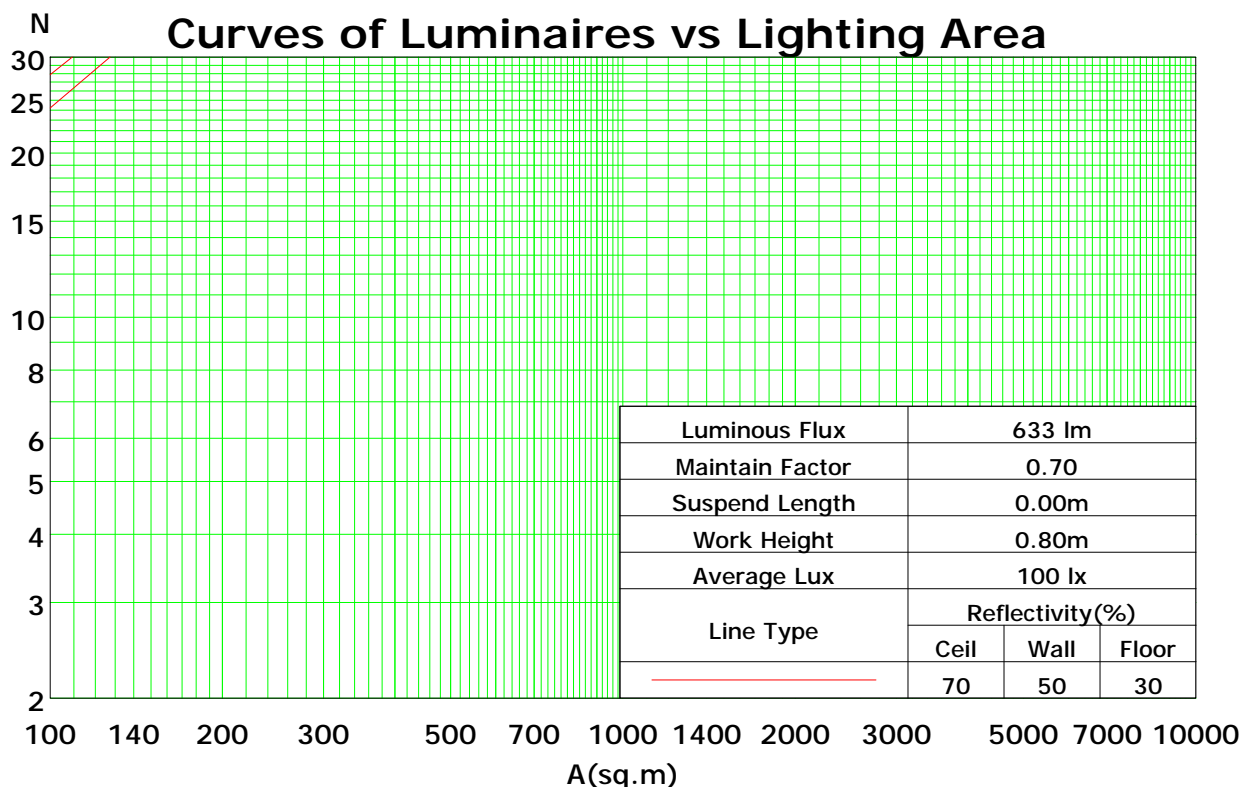
Coefficients Of Utilization - Zonal Cavity Method

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	36	30	25	23

Spacing Criteria (0-180): 1.28

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

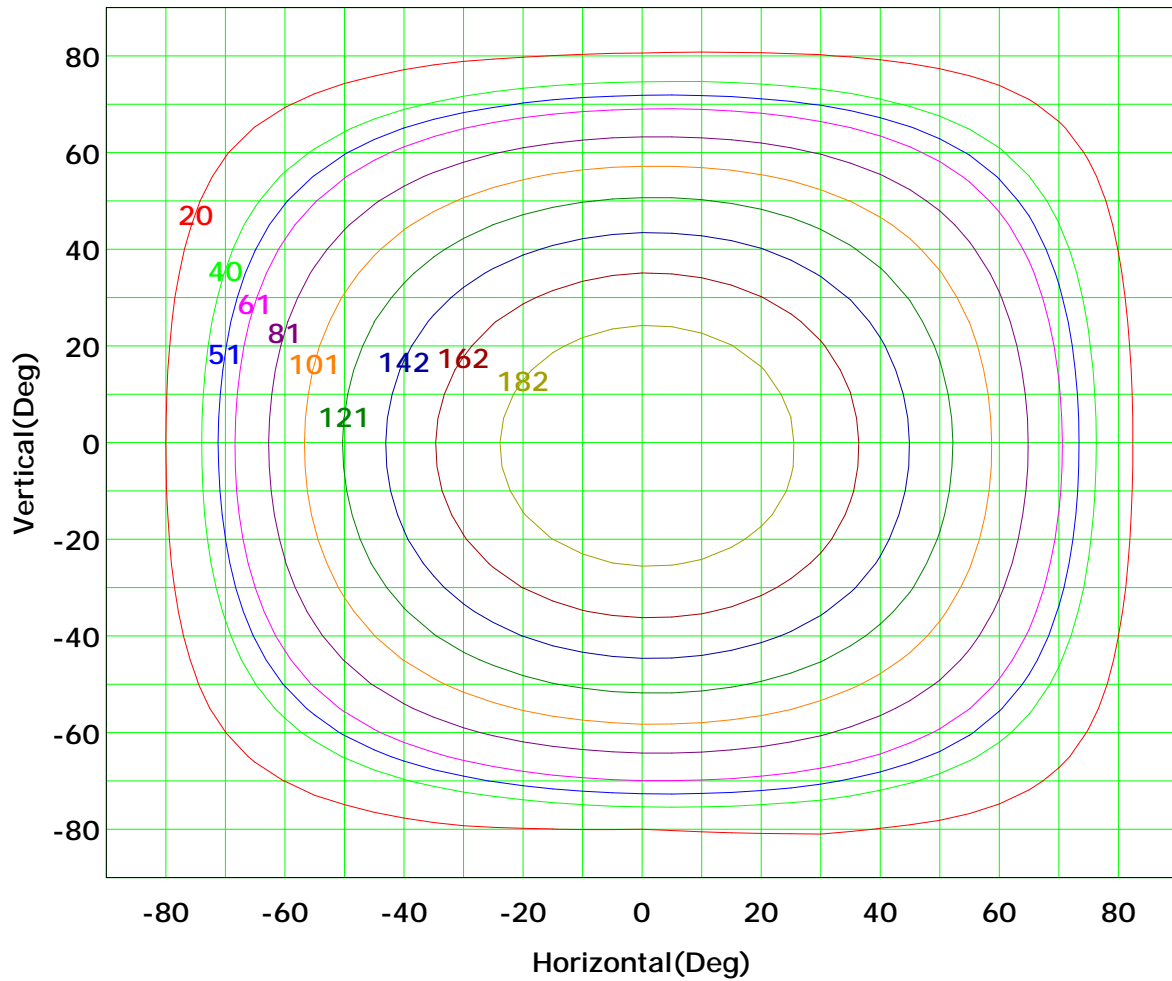
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 202 cd

(10%):	20 cd	(20%):	40 cd
(25%):	51 cd	(30%):	61 cd
(40%):	81 cd	(50%):	101 cd
(60%):	121 cd	(70%):	142 cd
(80%):	162 cd	(90%):	182 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

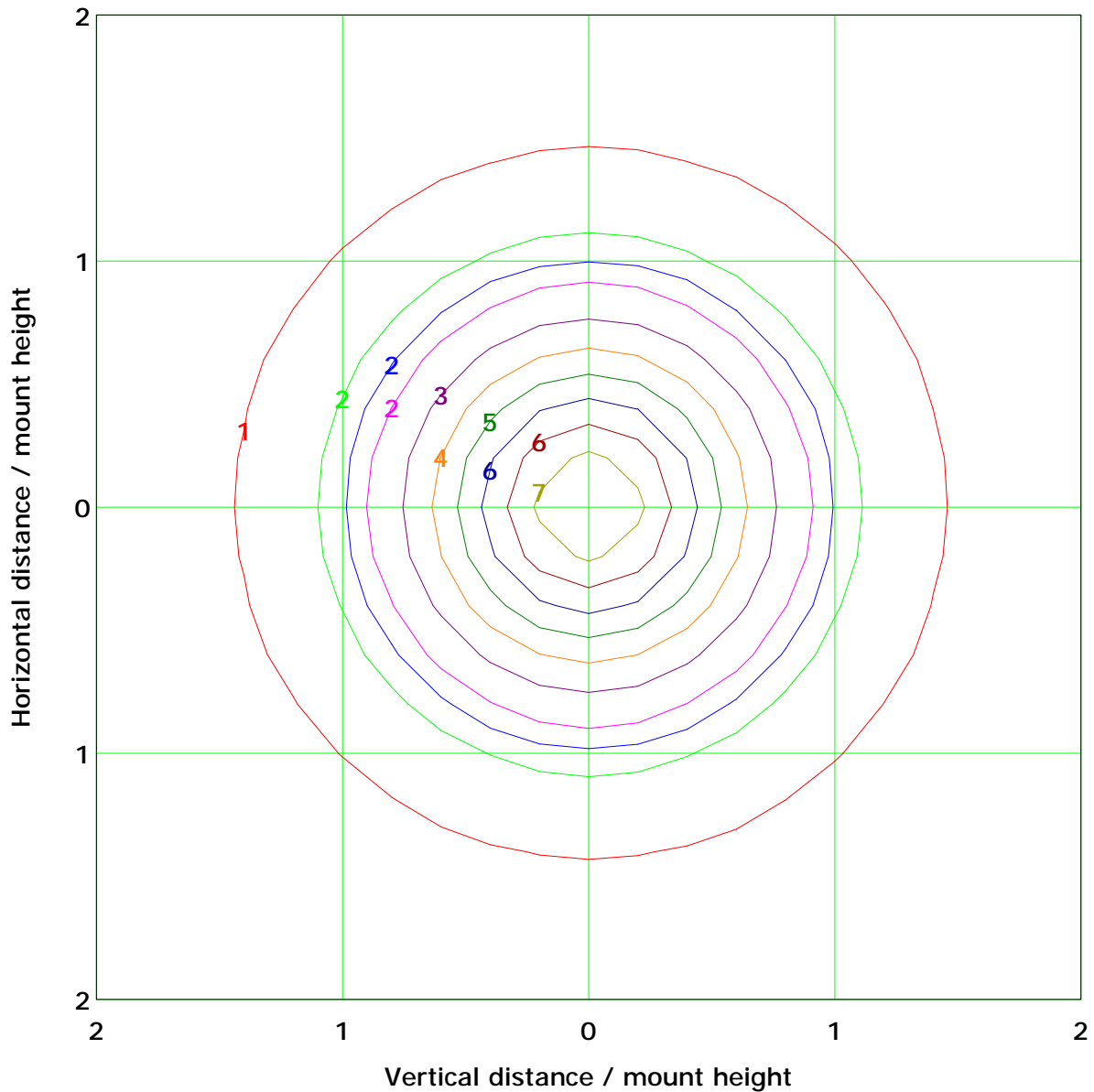
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 8.1 lx

(10%): 0.8 lx	(20%): 1.6 lx
(25%): 2.0 lx	(30%): 2.4 lx
(40%): 3.2 lx	(50%): 4.0 lx
(60%): 4.9 lx	(70%): 5.7 lx
(80%): 6.5 lx	(90%): 7.3 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

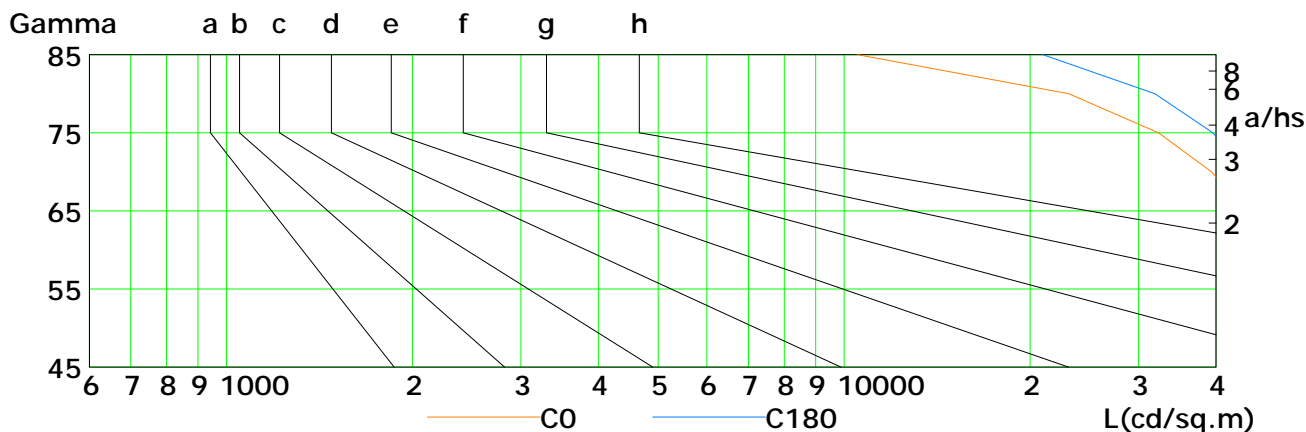
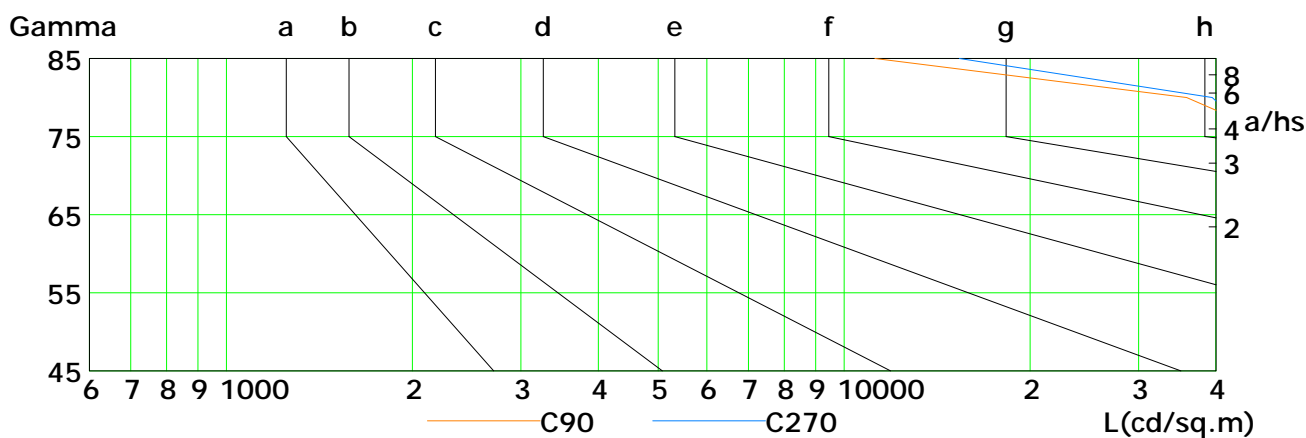
Humidity: 60%

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	54877	53118	50921	48127	44405	39350	32304	23116	10524
C90	62080	61548	60674	59435	57586	54862	50317	35878	11216
C180	56866	55576	53996	51776	49038	45113	39567	31867	20981
C270	60600	59760	58645	57184	54956	51655	46749	39433	15371

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

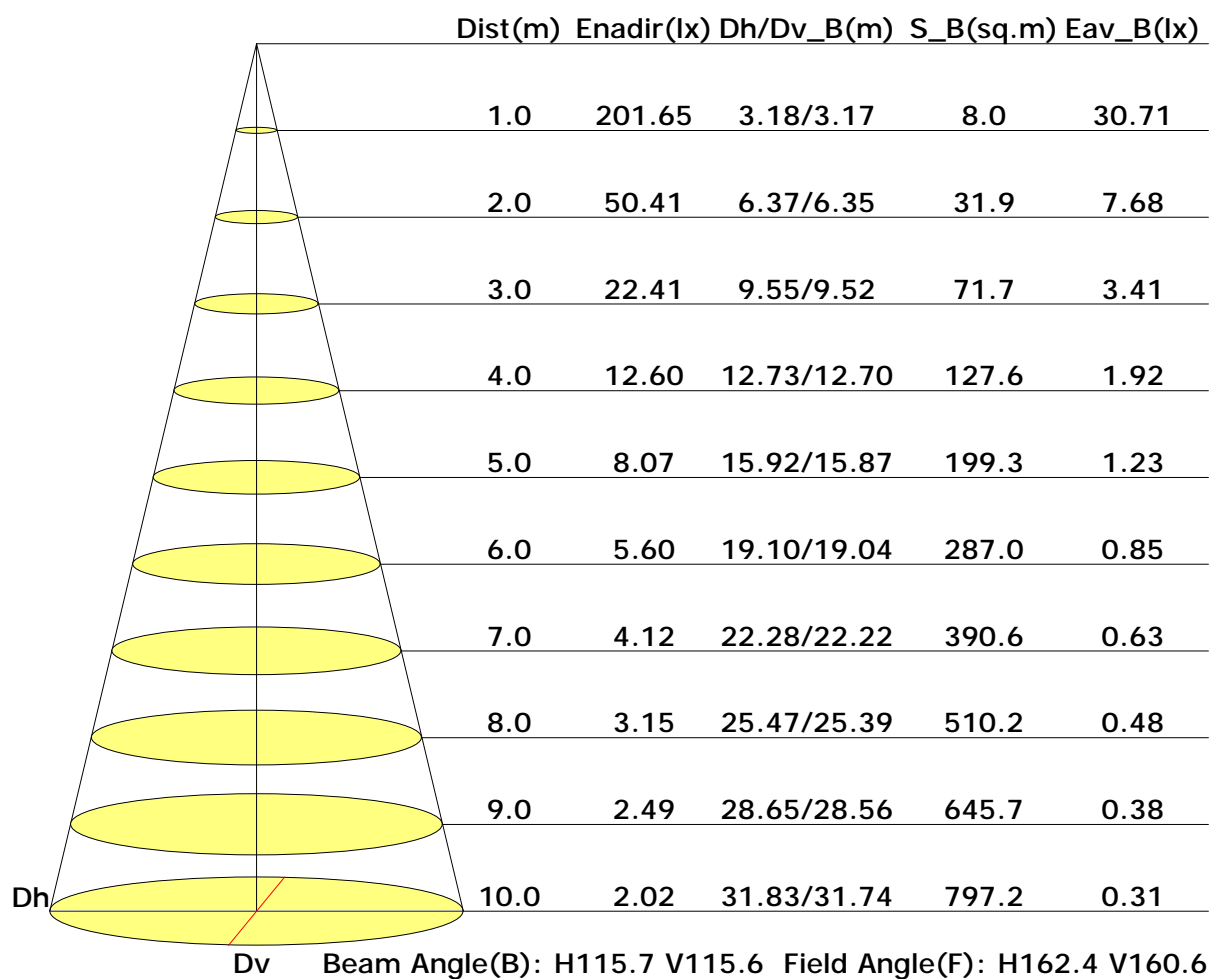
Test Device: GPM-1800B

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

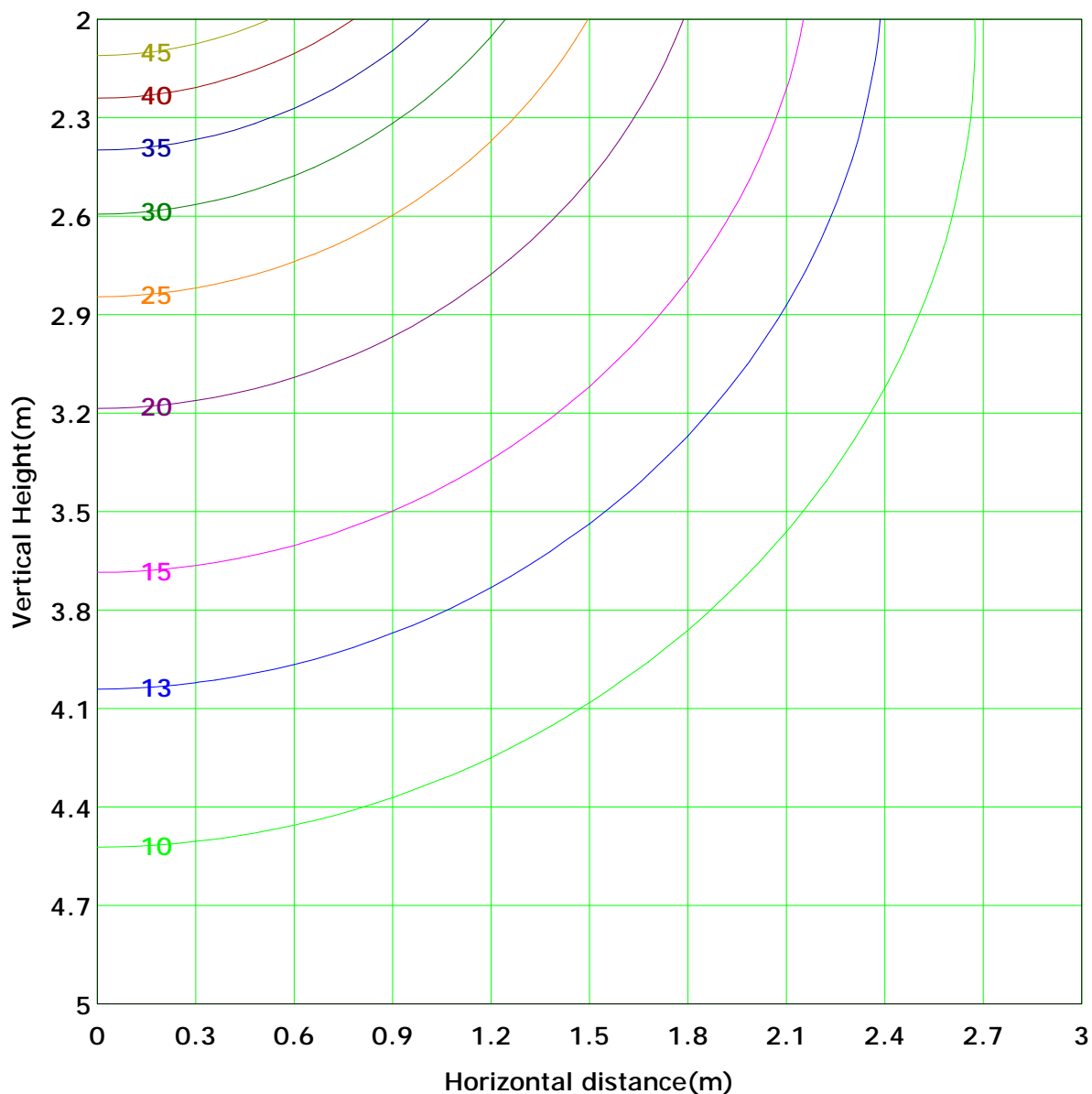
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 50.4 lx
(10%): 5.0 lx	(20%): 10.1 lx	
(25%): 12.6 lx	(30%): 15.1 lx	
(40%): 20.2 lx	(50%): 25.2 lx	
(60%): 30.2 lx	(70%): 35.3 lx	
(80%): 40.3 lx	(90%): 45.4 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)
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.1
		0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.1	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0	4.0	3.5
		0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.1	2.3	2.2	2.1	1.8	1.4	1.0	0.6	0.3	0.1	0.0	0.0	11.4	10.9
		0.0	0.2	0.5	1.0	1.6	2.2	2.7	3.1	3.3	3.0	2.4	2.0	1.6	1.2	0.7	0.4	0.1	0.0	0.0	21.8	21.3
		0.0	0.2	0.7	1.3	2.1	2.8	3.4	3.9	4.1	3.8	3.2	2.6	2.1	1.5	1.0	0.6	0.3	0.1	0.0	33.7	33.2
		0.0	0.3	0.8	1.6	2.4	3.3	4.1	4.6	4.9	4.5	3.8	3.3	2.7	2.0	1.4	0.9	0.5	0.2	0.0	45.6	45.2
		0.0	0.3	0.9	1.8	2.7	3.7	4.5	5.1	5.5	5.1	4.4	3.9	3.2	2.4	1.7	1.1	0.7	0.4	0.0	56.0	55.6
		0.0	0.4	1.0	1.9	2.9	3.9	4.8	5.5	5.9	5.5	4.8	4.3	3.6	2.8	2.1	1.5	1.0	0.6	0.0	63.6	63.2
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	67.3	66.9
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	62.4	62.0
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	54.3	53.9
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	43.6	43.1
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	31.5	31.0
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	19.7	19.2
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	9.8	9.3
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	3.1	2.5
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	0.3	0.0
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	596	587
		0.0	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.1	6.1	5.7	5.0	4.3	3.5	2.8	2.0	1.4	0.9	0.0	587	587

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

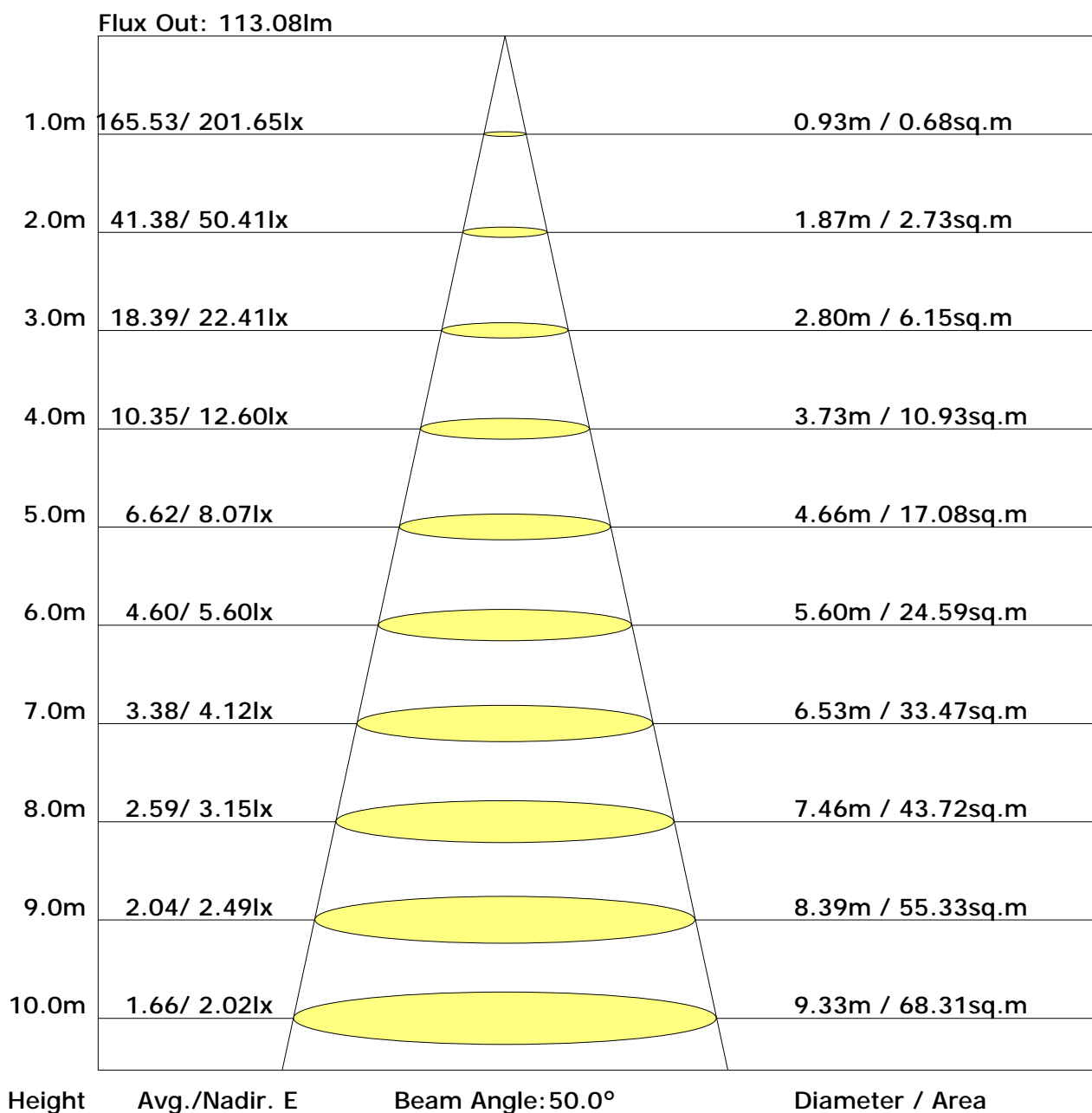
Test Device: GPM-1800B

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	27.8	29.4	28.2	29.8	30.1	27.8	29.5	28.2	29.8	30.1
3H	29.5	31.0	29.9	31.4	31.7	29.6	31.1	30.0	31.4	31.8
4H	30.1	31.5	30.6	31.9	32.3	30.2	31.6	30.6	31.9	32.3
6H	30.5	31.8	31.0	32.2	32.6	30.5	31.8	30.9	32.2	32.6
8H	30.6	31.9	31.1	32.3	32.7	30.6	31.8	31.0	32.2	32.6
12H	30.7	31.9	31.1	32.3	32.7	30.6	31.7	31.0	32.1	32.6
X=4H Y=2H	28.4	29.8	28.8	30.1	30.5	28.5	29.9	28.9	30.2	30.6
3H	30.3	31.5	30.7	31.9	32.3	30.4	31.6	30.9	32.0	32.4
4H	31.0	32.1	31.5	32.5	33.0	31.2	32.2	31.6	32.7	33.1
6H	31.5	32.4	32.0	32.9	33.4	31.6	32.5	32.1	33.0	33.4
8H	31.6	32.5	32.1	33.0	33.4	31.7	32.5	32.1	33.0	33.5
12H	31.7	32.5	32.2	33.0	33.5	31.7	32.5	32.2	33.0	33.4
X=8H Y=4H	31.3	32.1	31.7	32.6	33.1	31.5	32.3	31.9	32.8	33.3
6H	31.8	32.6	32.3	33.1	33.5	32.0	32.7	32.5	33.2	33.7
8H	32.0	32.6	32.5	33.2	33.7	32.1	32.8	32.7	33.3	33.8
12H	32.1	32.7	32.6	33.2	33.8	32.2	32.8	32.7	33.3	33.8
X=12H Y=4H	31.3	32.1	31.8	32.5	33.0	31.5	32.3	32.0	32.8	33.2
6H	31.9	32.5	32.4	33.0	33.5	32.1	32.7	32.6	33.2	33.7
8H	32.1	32.6	32.6	33.1	33.7	32.2	32.8	32.7	33.3	33.9

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	0.56	0.66	0.74	0.79	0.86	0.92	0.95	1.00	1.03
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.52	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.87	0.90
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85
<p>Rating:5W 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	1.01	0.84	0.71	0.62	0.49	0.41	0.35	0.27	0.22
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.32	0.26	0.21
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.98	0.80	0.68	0.59	0.47	0.42	0.33	0.26	0.21
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.24	0.20
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.29	0.23	0.19
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.37	0.32	0.25	0.20
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.19
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.28	0.22	0.19
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.22	0.17	0.14
<p>Rating:5W 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	0.08	0.10	0.12	0.13	0.14	0.16	0.17
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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
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:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											