

Report No.:

Test Time: 2018/8/28 17:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2242.224PH 1FT(300mm)

Luminous Length (mm): 300

Luminous Width (mm): 8

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.088 A

Power: 2.10 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 230.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H115.7

Vertical Diffuse Angle(50%): V115.5

Luminaire Efficacy Rating (LER): 110

Max. Intensity: 77.82 cd

Total Rated Lamp Lumens: 230.4 lm

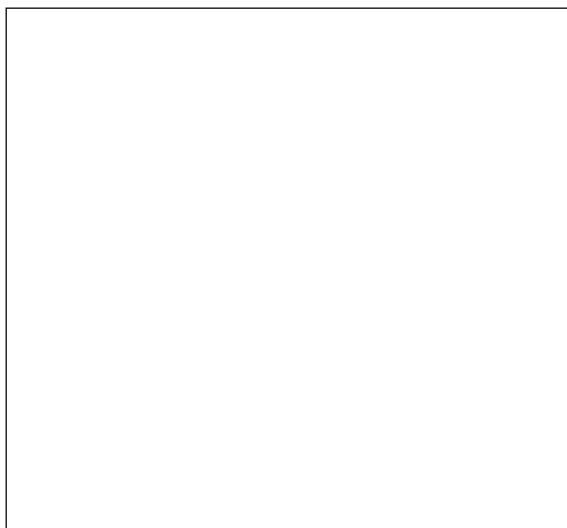
Efficiency: 100%

Upward Ratio: 1%

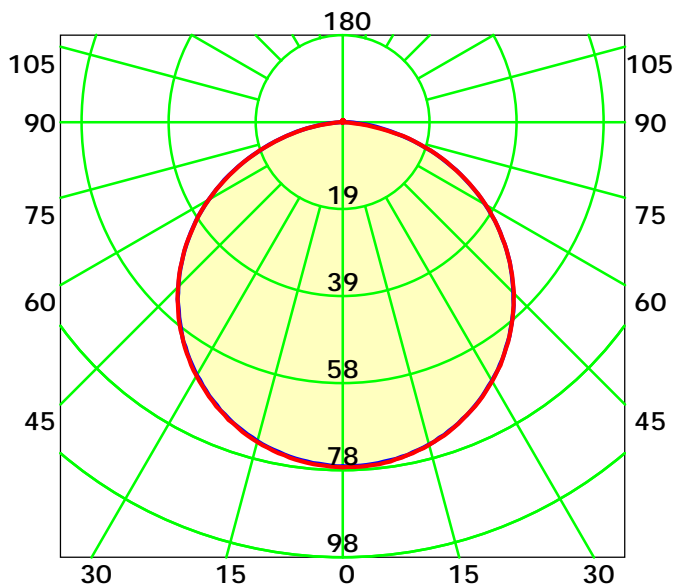
Central Intensity: 77.54 cd

Pos of Max. Intensity: H150 V2

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

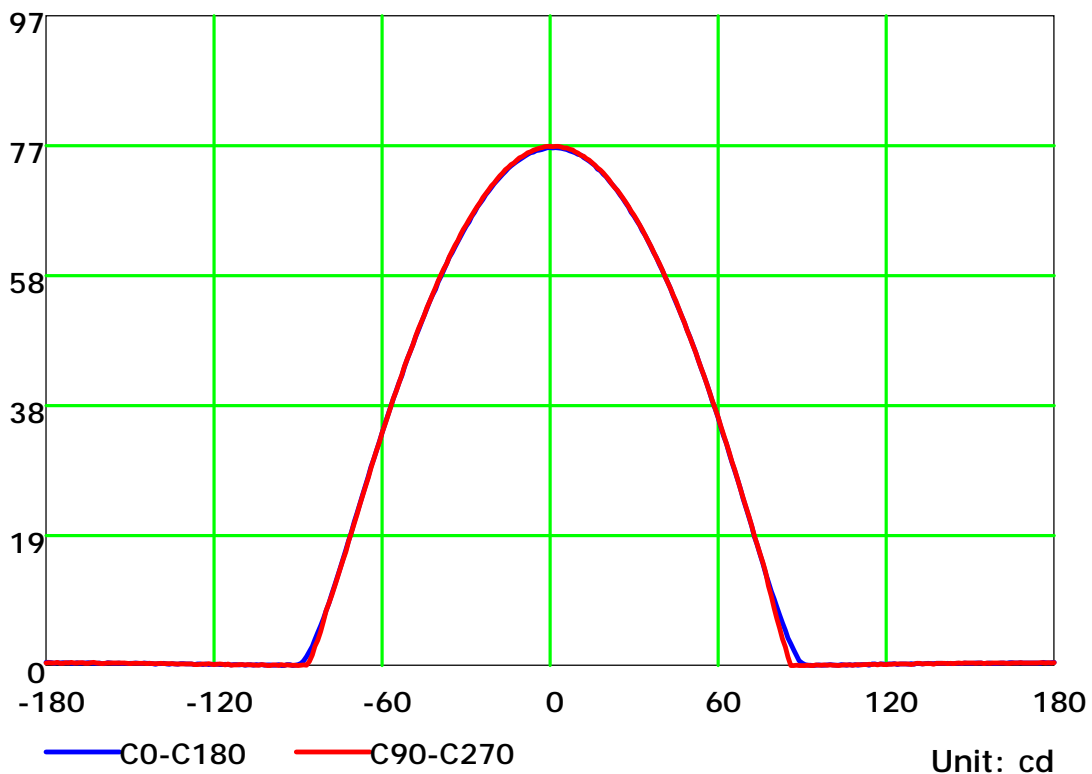
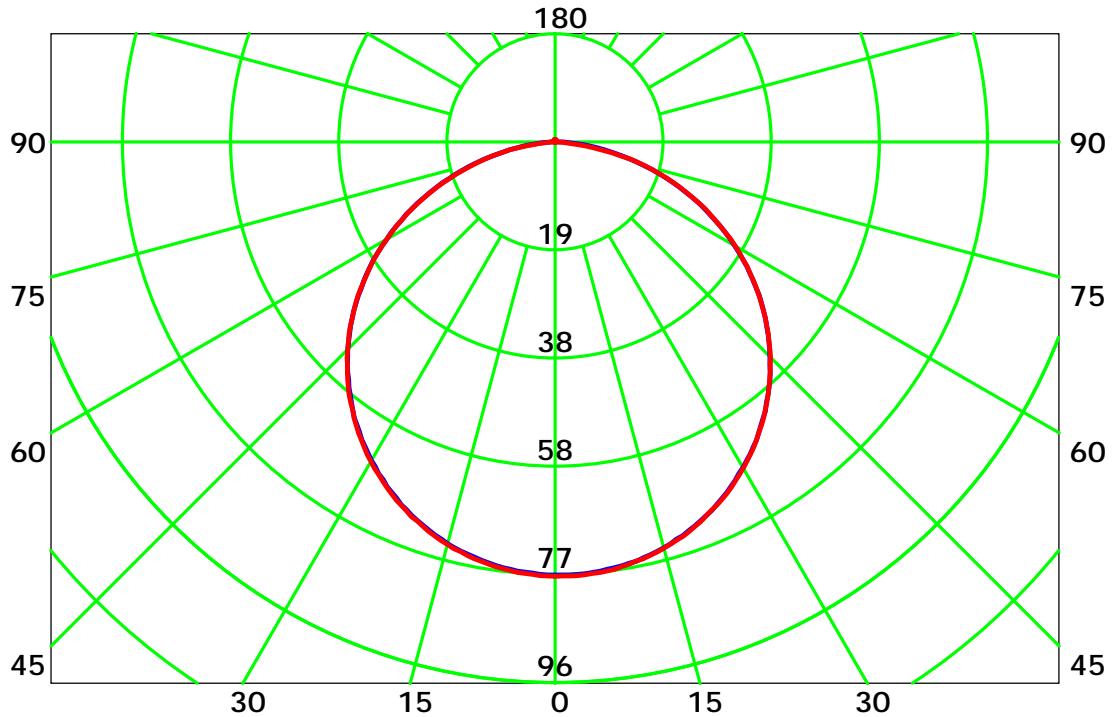
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

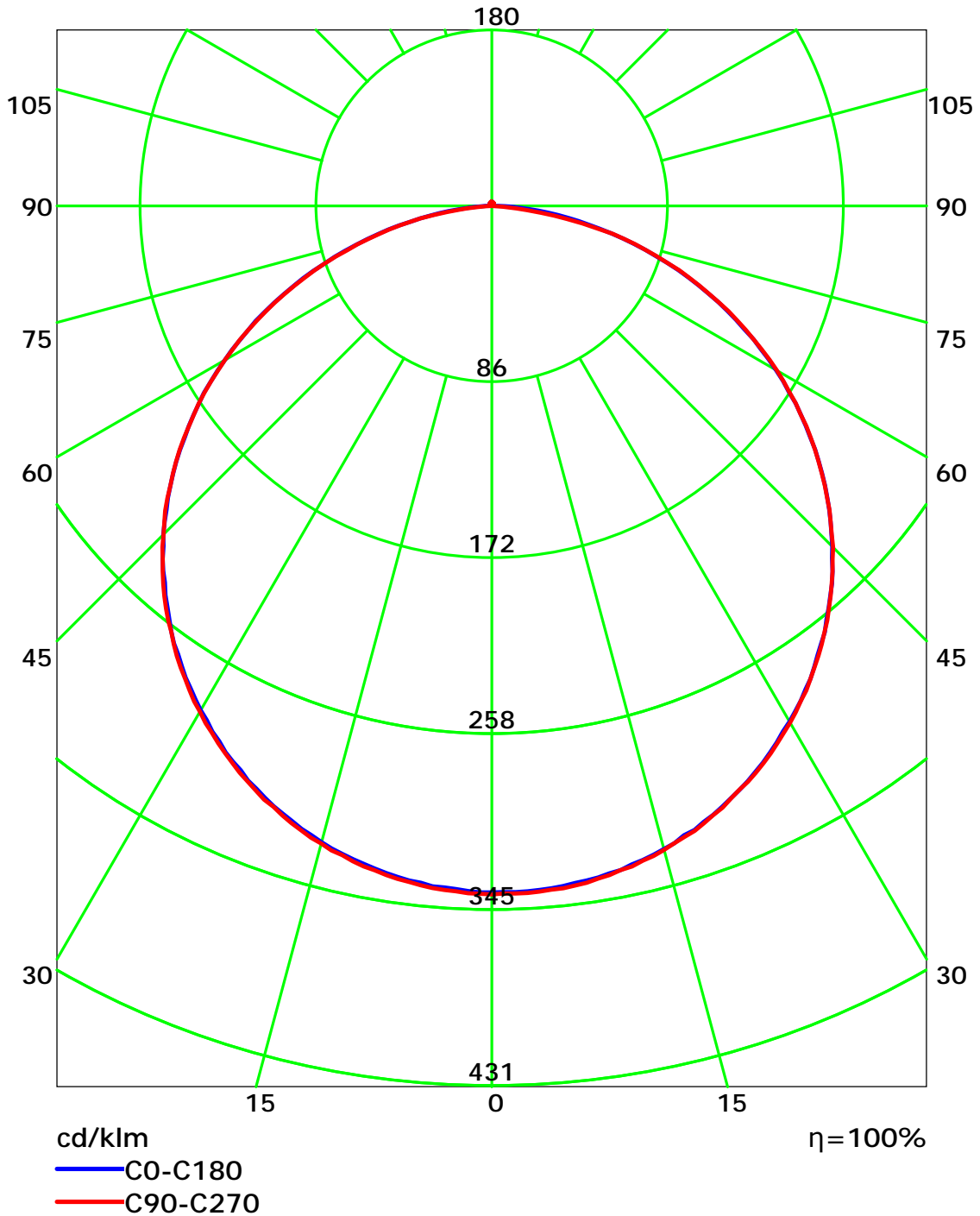
Luminous Intensity Distribution Curve



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:

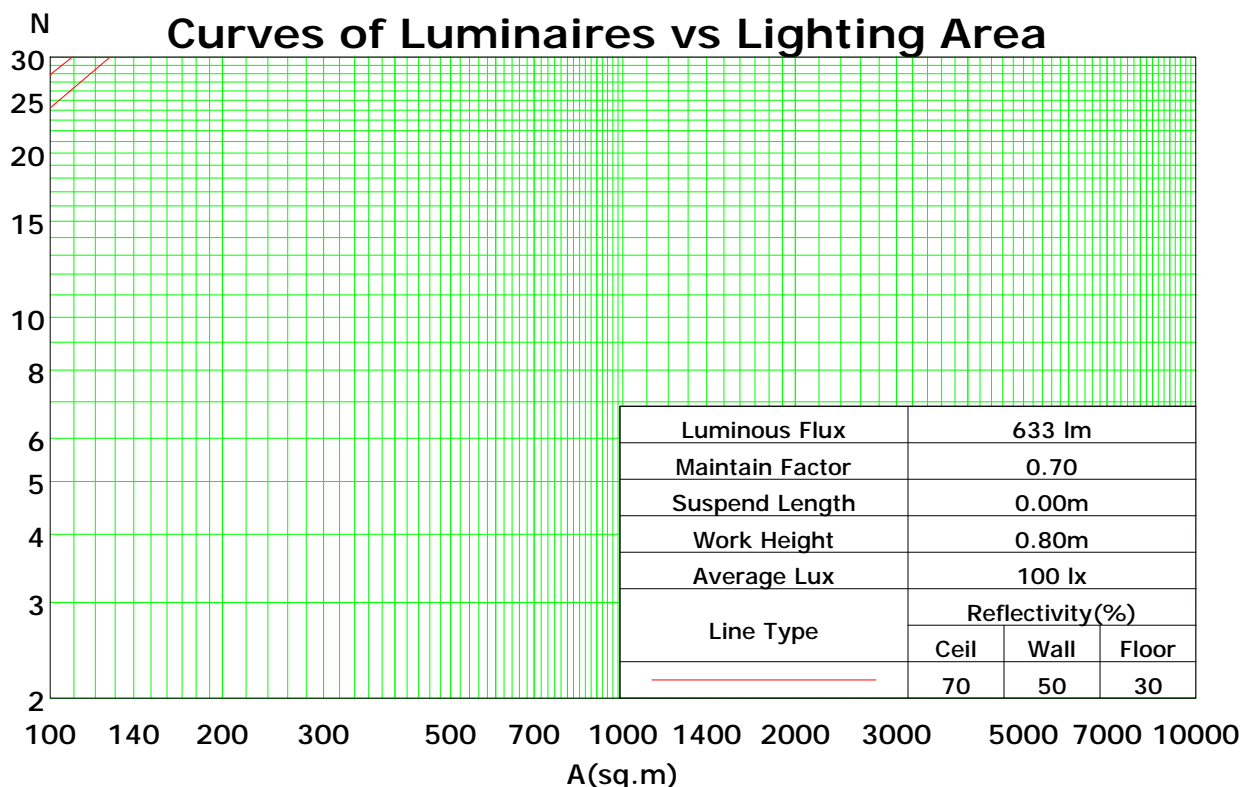
Coefficients Of Utilization - Zonal Cavity Method

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): 1.27

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

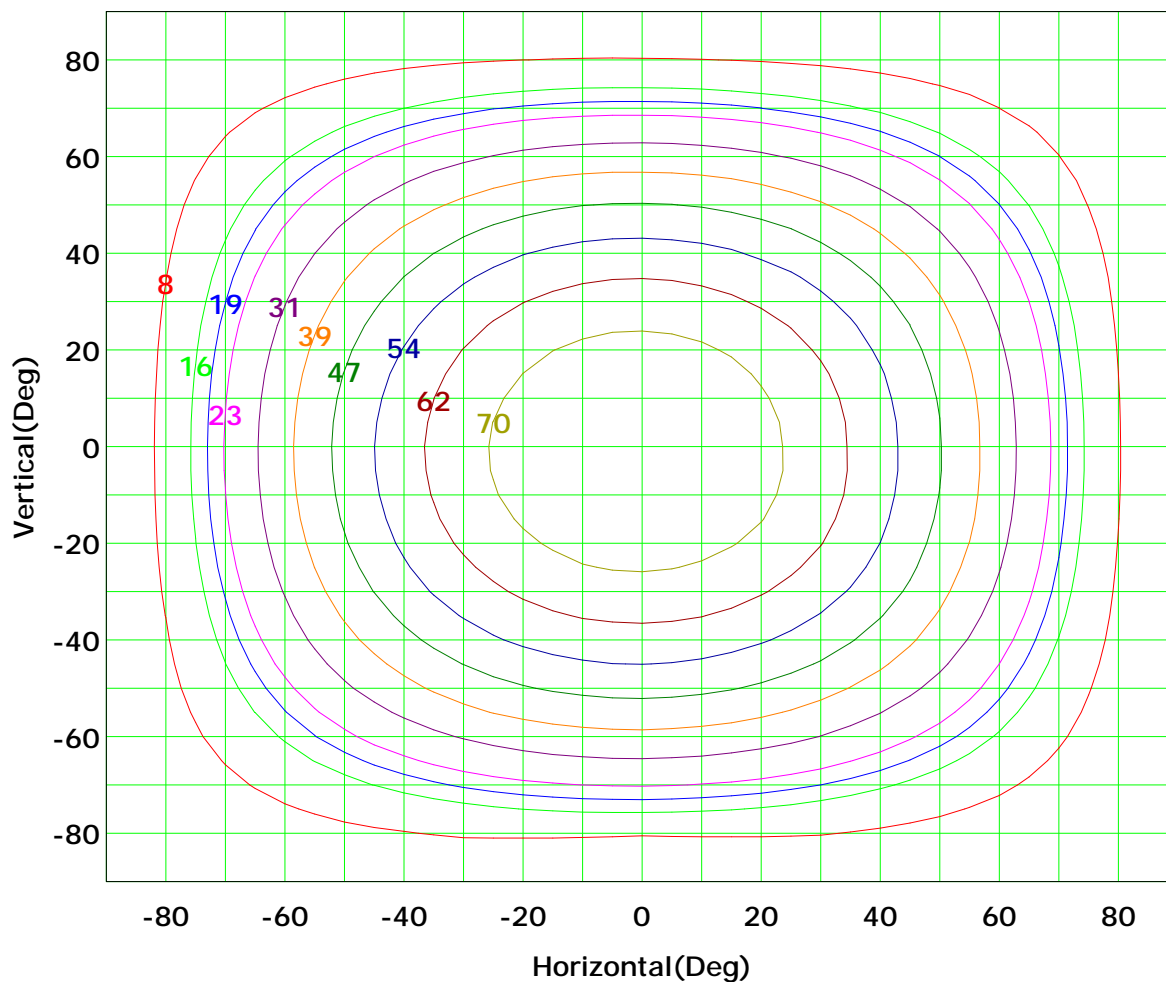
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 78 cd

(10%):	8 cd	(20%):	16 cd
(25%):	19 cd	(30%):	23 cd
(40%):	31 cd	(50%):	39 cd
(60%):	47 cd	(70%):	54 cd
(80%):	62 cd	(90%):	70 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

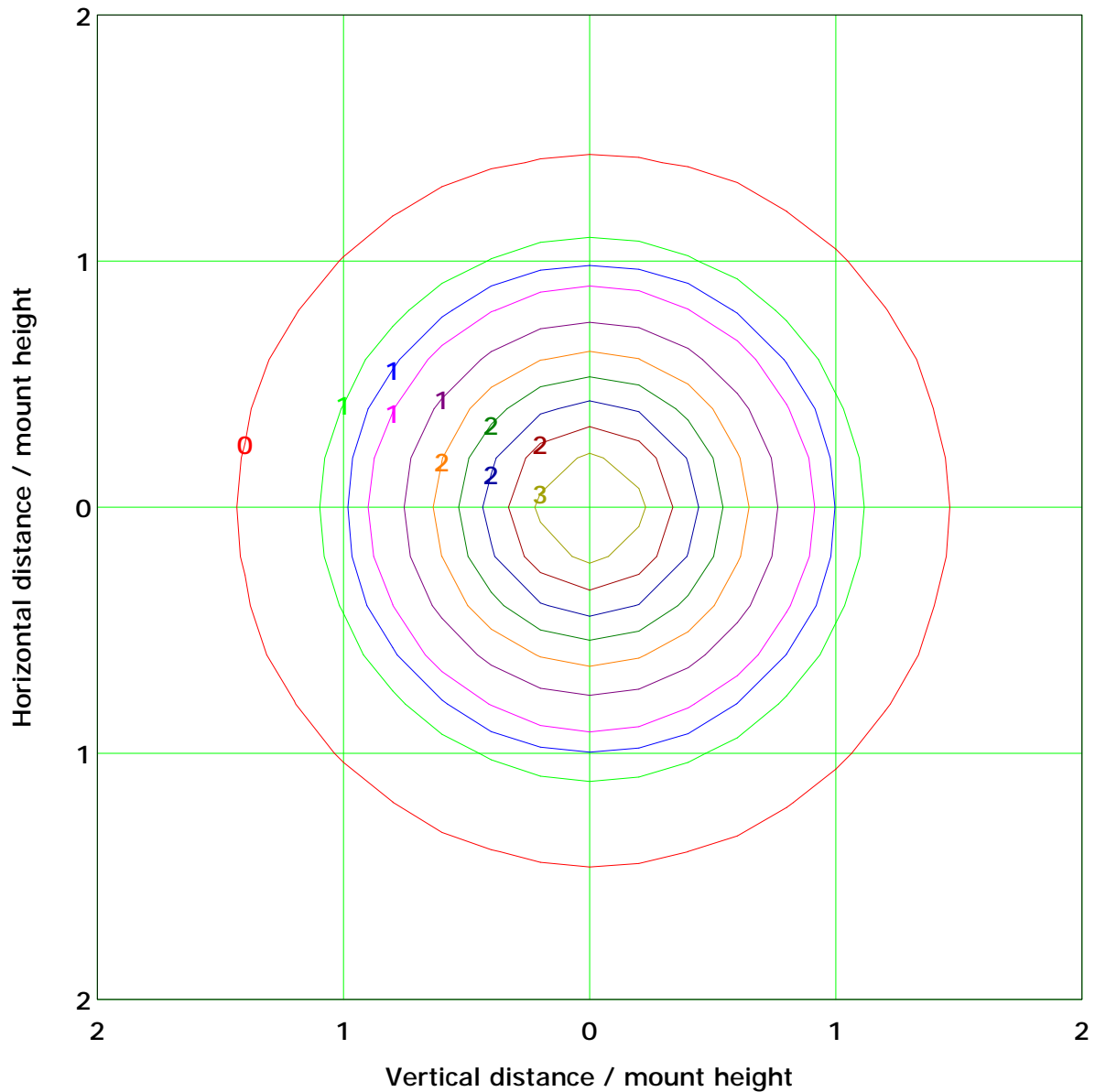
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.1 lx

(10%): 0.3 lx	(20%): 0.6 lx
(25%): 0.8 lx	(30%): 0.9 lx
(40%): 1.2 lx	(50%): 1.6 lx
(60%): 1.9 lx	(70%): 2.2 lx
(80%): 2.5 lx	(90%): 2.8 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

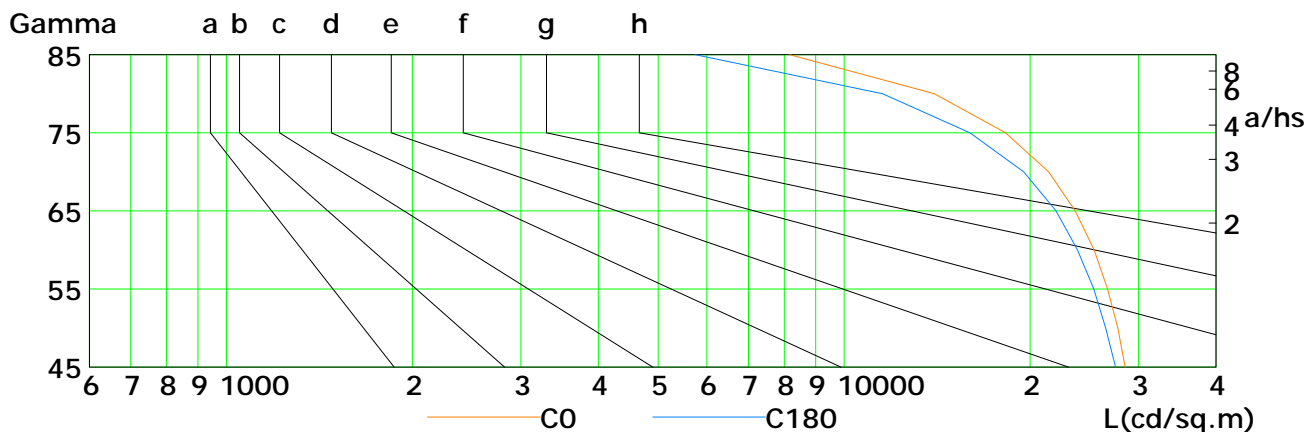
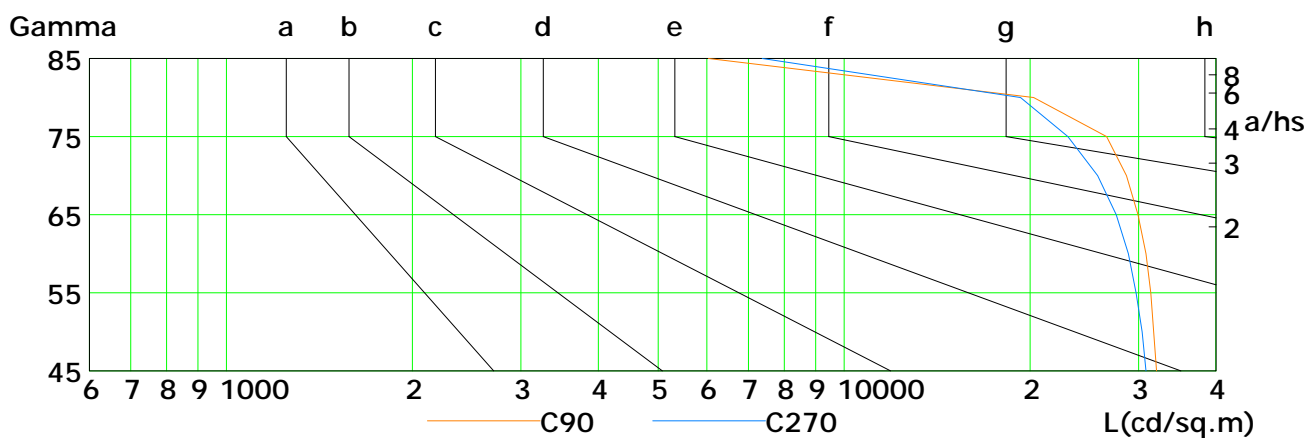
Humidity: 60%

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	28504	27740	26715	25407	23683	21455	18256	14013	8169
C90	32055	31734	31371	30814	29926	28659	26618	20276	6033
C180	27504	26533	25359	23873	22042	19533	15994	11542	5748
C270	30833	30378	29715	28875	27576	25737	23040	19311	7368

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

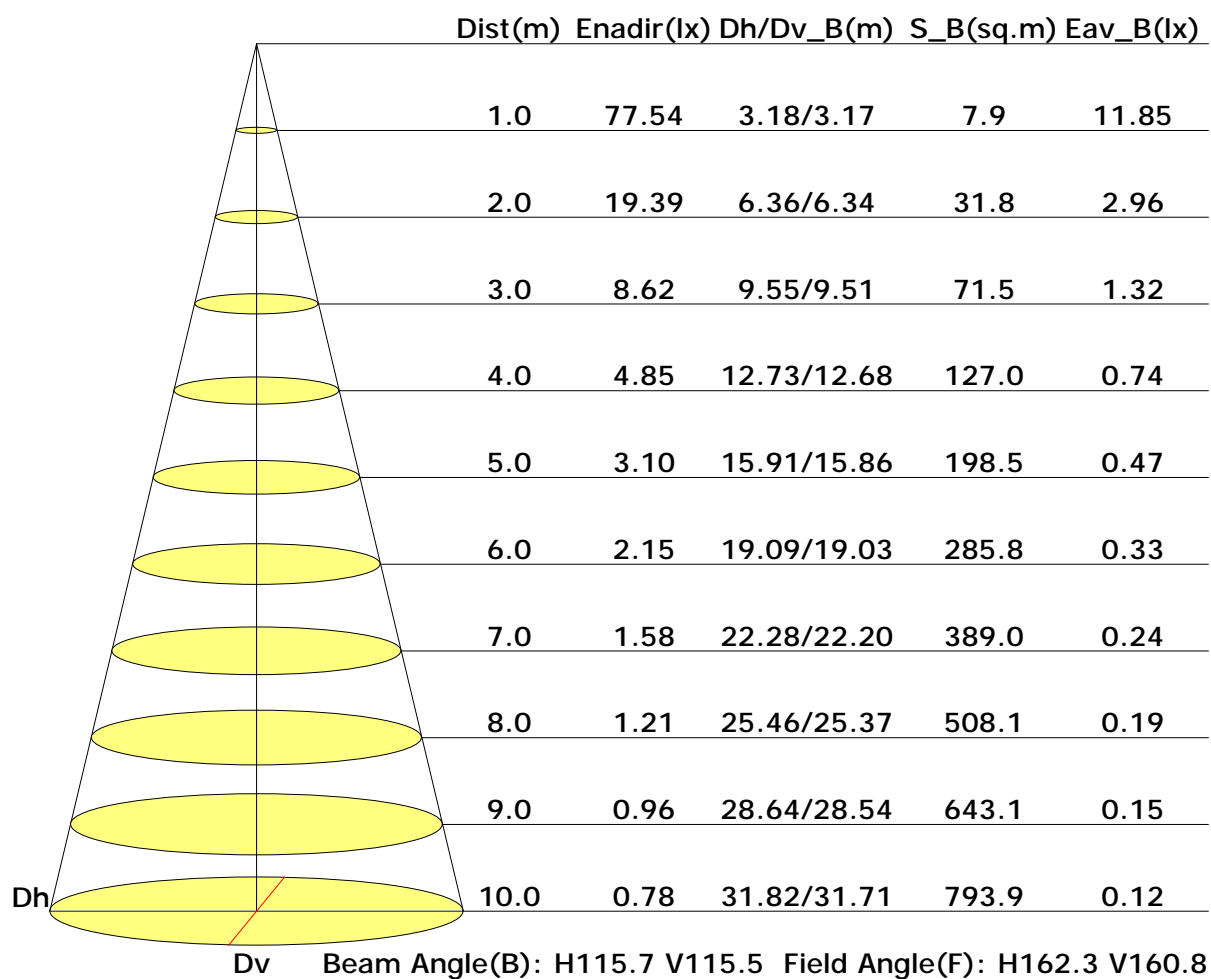
Test Device: GPM-1800B

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

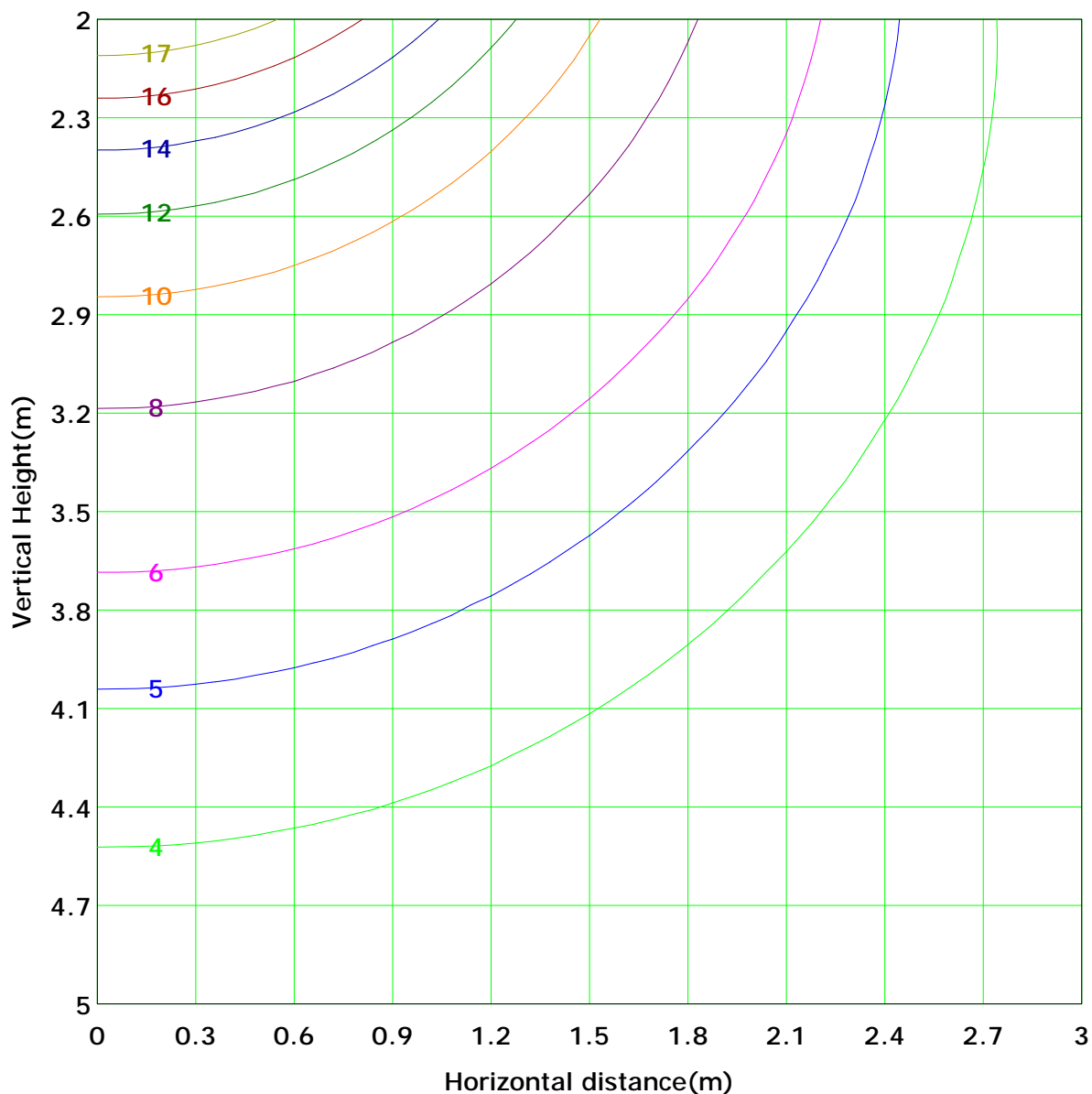
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 19.4 lx
(10%): 1.9 lx	(20%): 3.9 lx	
(25%): 4.8 lx	(30%): 5.8 lx	
(40%): 7.8 lx	(50%): 9.7 lx	
(60%): 11.6 lx	(70%): 13.6 lx	
(80%): 15.5 lx	(90%): 17.4 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	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.3	1.0
	-70	0.0	0.1	0.1	0.2	0.4	0.5	0.7	0.7	0.7	0.3	0.3	0.4	0.6	0.6	0.2	0.0	0.0	0.0	0.0	3.9	3.7
	-60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.1	0.7	0.7	0.9	1.1	1.3	0.5	0.1	0.1	0.1	0.0	7.7	7.6
	-50	0.0	0.1	0.2	0.5	0.7	1.0	1.2	1.5	1.5	0.8	0.6	1.1	1.4	1.6	0.8	0.4	0.3	0.3	0.0	12.3	12.1
	-40	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.0	0.7	1.3	1.6	1.9	1.1	0.7	0.6	0.6	0.0	16.9	16.7
	-30	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.4	0.9	1.7	2.0	2.3	1.3	0.9	0.7	0.4	0.0	21.0	20.9
	-20	0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.2	2.1	1.7	1.2	2.1	2.4	2.7	1.6	1.2	0.9	0.5	0.0	24.1	24.0
	-10	0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.2	2.3	2.0	1.5	2.3	2.6	2.9	1.8	1.3	0.9	0.5	0.0	25.8	25.6
	0	0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.2	2.3	2.1	1.8	2.3	2.6	2.9	1.9	1.3	0.9	0.5	0.0	25.8	25.7
	10	0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.2	2.3	2.2	2.0	2.3	2.6	2.9	1.9	1.3	0.9	0.5	0.0	24.3	24.2
	20	0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.2	2.3	2.1	1.8	2.3	2.6	2.9	1.9	1.3	0.9	0.5	0.0	21.4	21.2
	30	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.9	2.2	2.0	1.6	2.1	2.4	2.7	1.8	1.2	0.8	0.4	0.0	17.4	17.2
	40	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.9	2.2	2.0	1.6	2.1	2.4	2.7	1.8	1.2	0.8	0.4	0.0	12.8	12.6
	50	0.0	0.1	0.2	0.5	0.8	1.1	1.4	1.7	2.0	1.7	1.3	1.9	2.2	2.5	1.6	1.0	0.6	0.3	0.0	8.2	8.0
	60	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.4	1.7	1.6	1.3	1.9	2.2	2.5	1.6	1.0	0.6	0.3	0.0	4.2	4.0
	70	0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.9	0.8	0.6	1.0	1.2	1.4	1.1	0.8	0.4	0.1	0.0	1.5	1.3
	80	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.5	0.4	0.6	0.7	0.8	0.6	0.4	0.2	0.1	0.0	0.2	0.0
	90	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.3	0.2	0.1	0.0	229	226
	Flux(E)	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	229	226

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

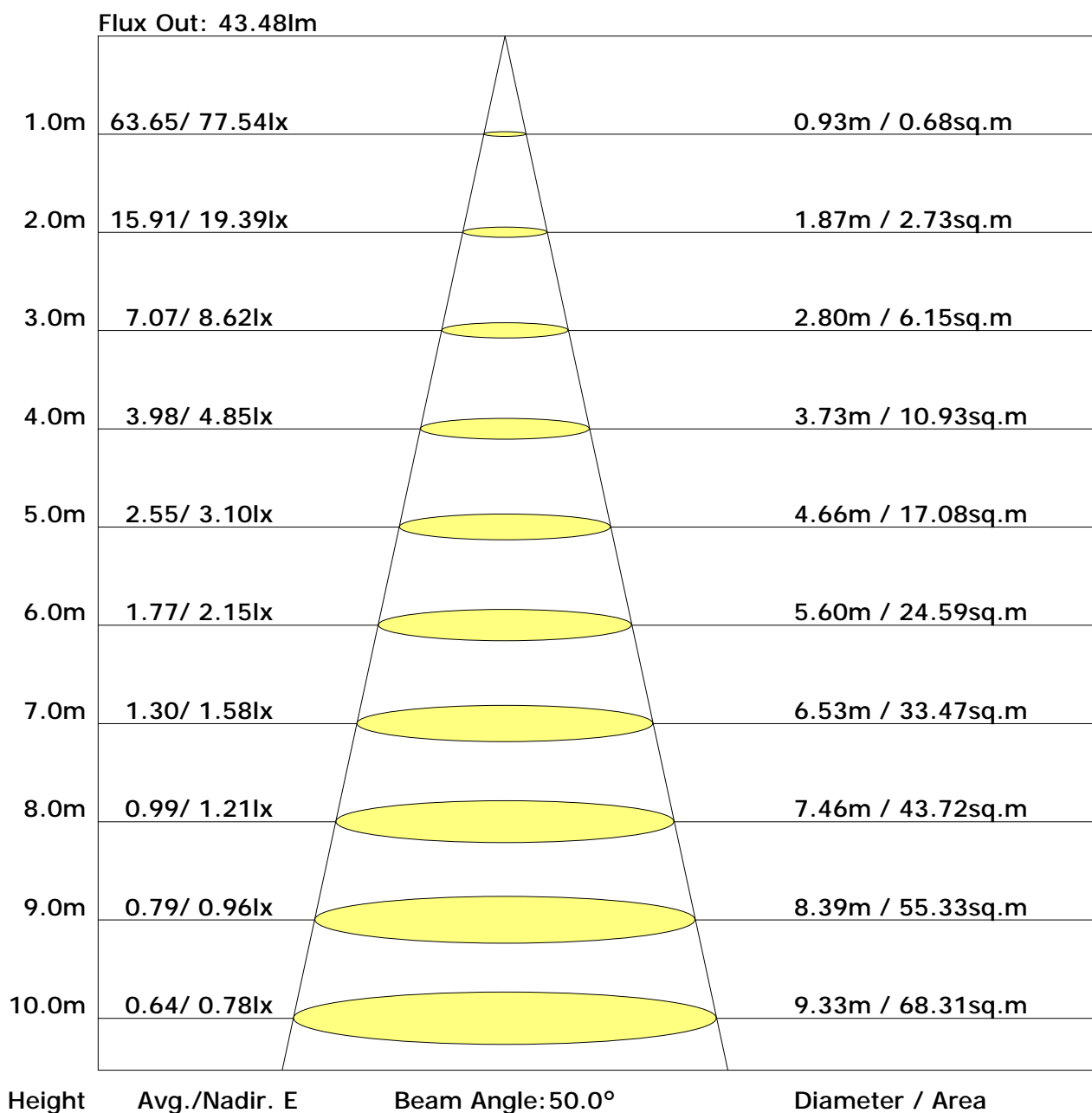
Test Device: GPM-1800B

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	29.1	30.8	29.5	31.1	31.4	28.8	30.4	29.2	30.7	31.1
3H	31.0	32.5	31.4	32.8	33.2	30.5	32.0	30.9	32.3	32.7
4H	31.7	33.1	32.1	33.5	33.8	31.1	32.5	31.5	32.9	33.3
6H	32.2	33.5	32.6	33.9	34.3	31.5	32.8	31.9	33.2	33.6
8H	32.4	33.6	32.8	34.0	34.4	31.6	32.8	32.0	33.2	33.6
12H	32.5	33.7	32.9	34.1	34.5	31.6	32.7	32.0	33.1	33.6
X=4H Y=2H	29.7	31.1	30.1	31.4	31.8	29.4	30.8	29.8	31.2	31.6
3H	31.8	32.9	32.2	33.3	33.8	31.4	32.6	31.8	33.0	33.4
4H	32.6	33.6	33.0	34.1	34.5	32.1	33.2	32.6	33.6	34.1
6H	33.2	34.1	33.7	34.6	35.1	32.6	33.5	33.1	34.0	34.4
8H	33.4	34.3	33.9	34.7	35.2	32.7	33.5	33.1	34.0	34.5
12H	33.6	34.3	34.0	34.8	35.3	32.7	33.5	33.2	34.0	34.4
X=8H Y=4H	32.8	33.7	33.3	34.1	34.6	32.4	33.3	32.9	33.7	34.2
6H	33.5	34.3	34.0	34.8	35.2	33.0	33.7	33.5	34.2	34.7
8H	33.8	34.4	34.3	35.0	35.5	33.1	33.8	33.7	34.3	34.8
12H	34.0	34.6	34.5	35.1	35.7	33.2	33.8	33.7	34.3	34.8
X=12H Y=4H	32.8	33.6	33.3	34.1	34.6	32.5	33.2	32.9	33.7	34.2
6H	33.6	34.2	34.1	34.7	35.2	33.1	33.7	33.6	34.2	34.7
8H	33.9	34.4	34.4	34.9	35.5	33.2	33.8	33.8	34.3	34.9

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:2W 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	0.71	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	0.23	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
Rating: 2W 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 = 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
<p>Rating:2W 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>											