

Report No.:

Test Time: 2018/8/29 14:46

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2242.227PH 1FT(300mm)

Luminous Length (mm): 300

Luminous Width (mm): 8

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.086 A

Power: 2.07 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 254.3 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H116.8

Vertical Diffuse Angle(50%): V116.4

Luminaire Efficacy Rating (LER): 123

Max. Intensity: 84.88 cd

Total Rated Lamp Lumens: 254.3 lm

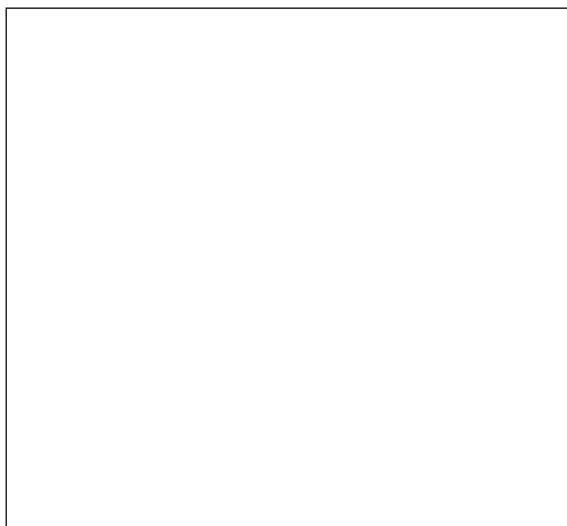
Efficiency: 100%

Upward Ratio: 1%

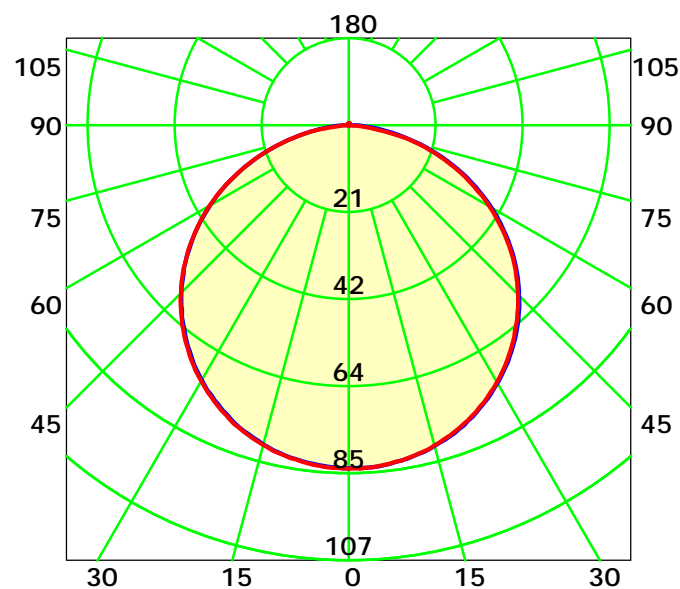
Central Intensity: 84.62 cd

Pos of Max. Intensity: H330 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 116.6° 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

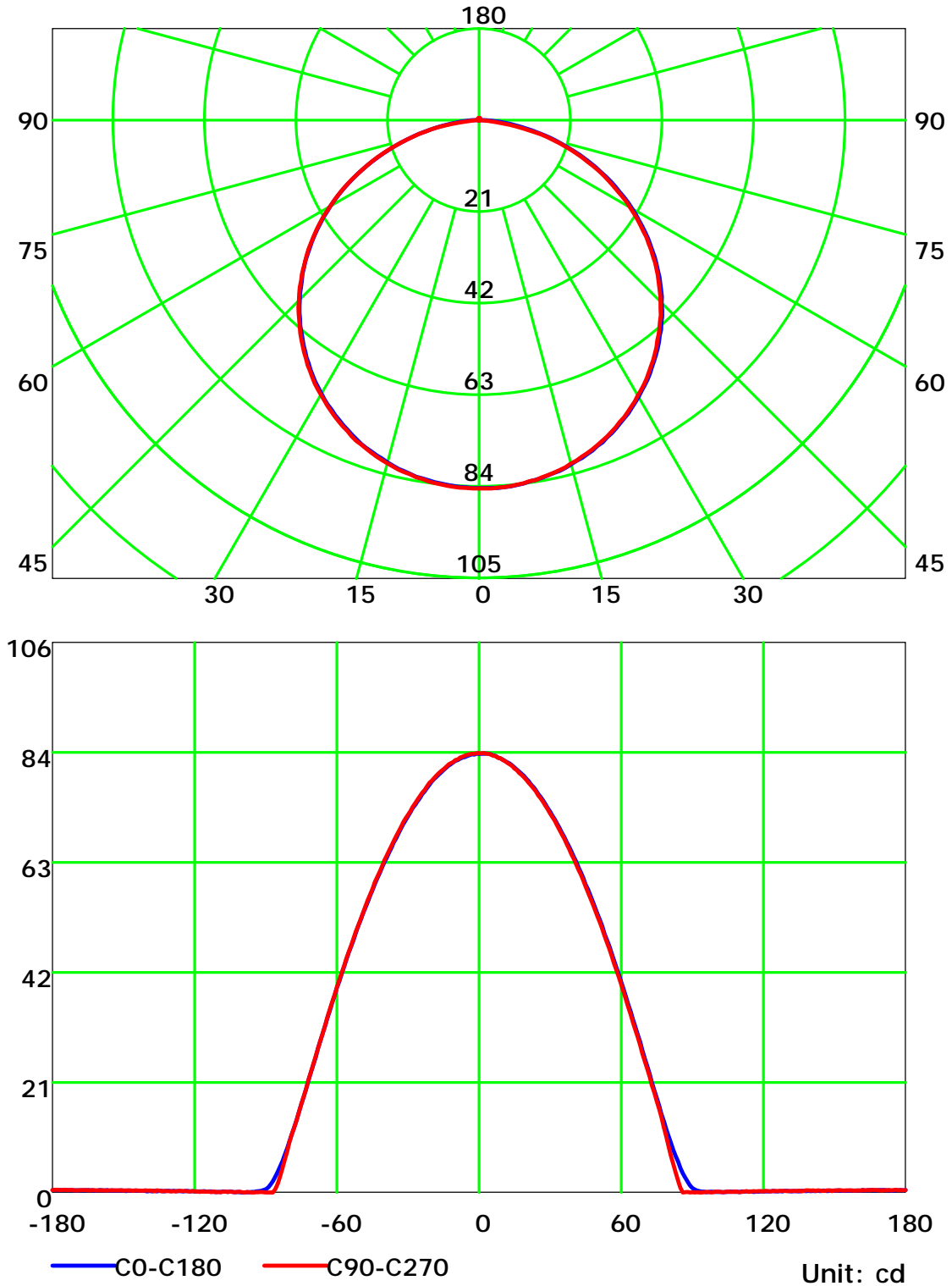
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

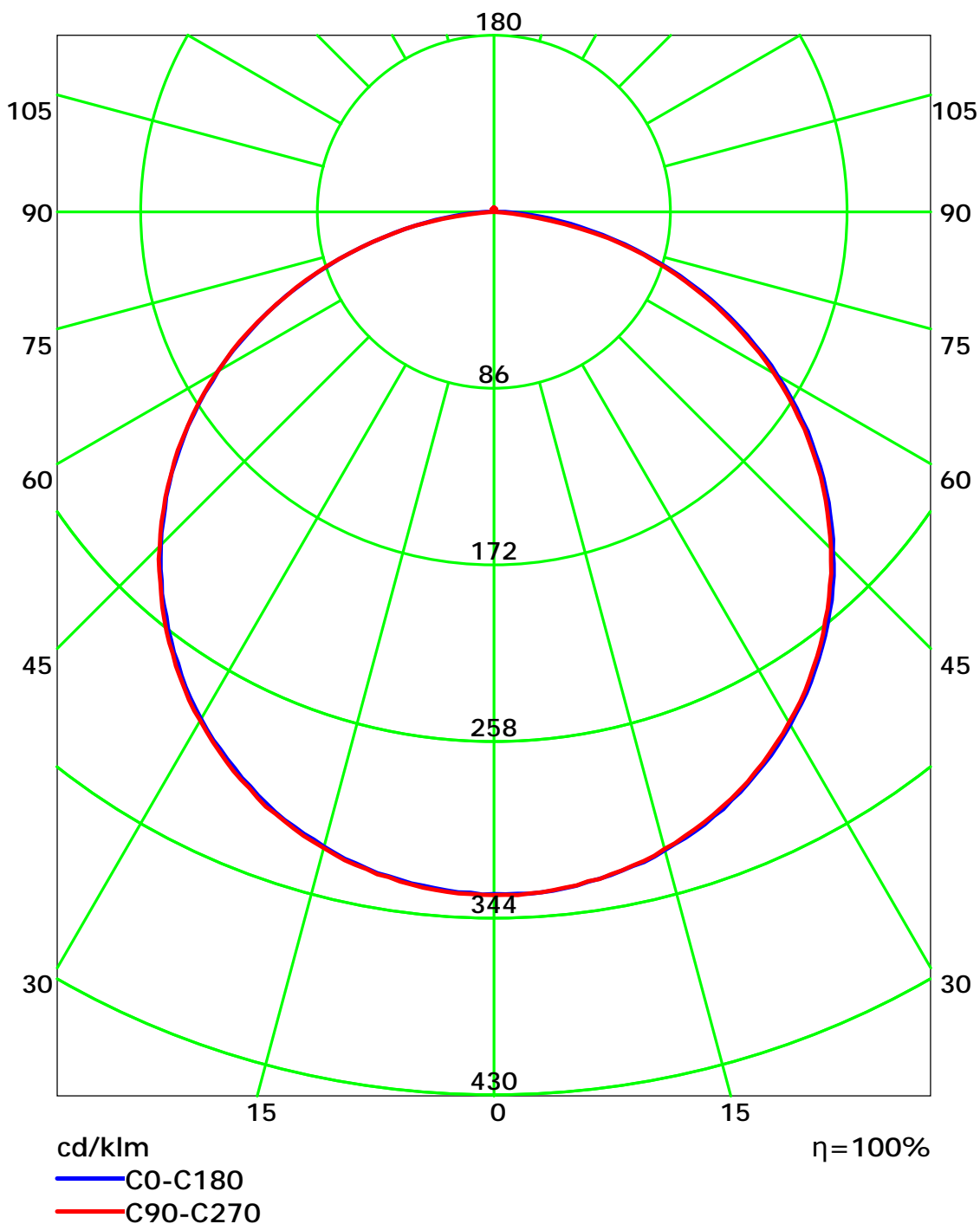
Luminous Intensity Distribution Curve



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:

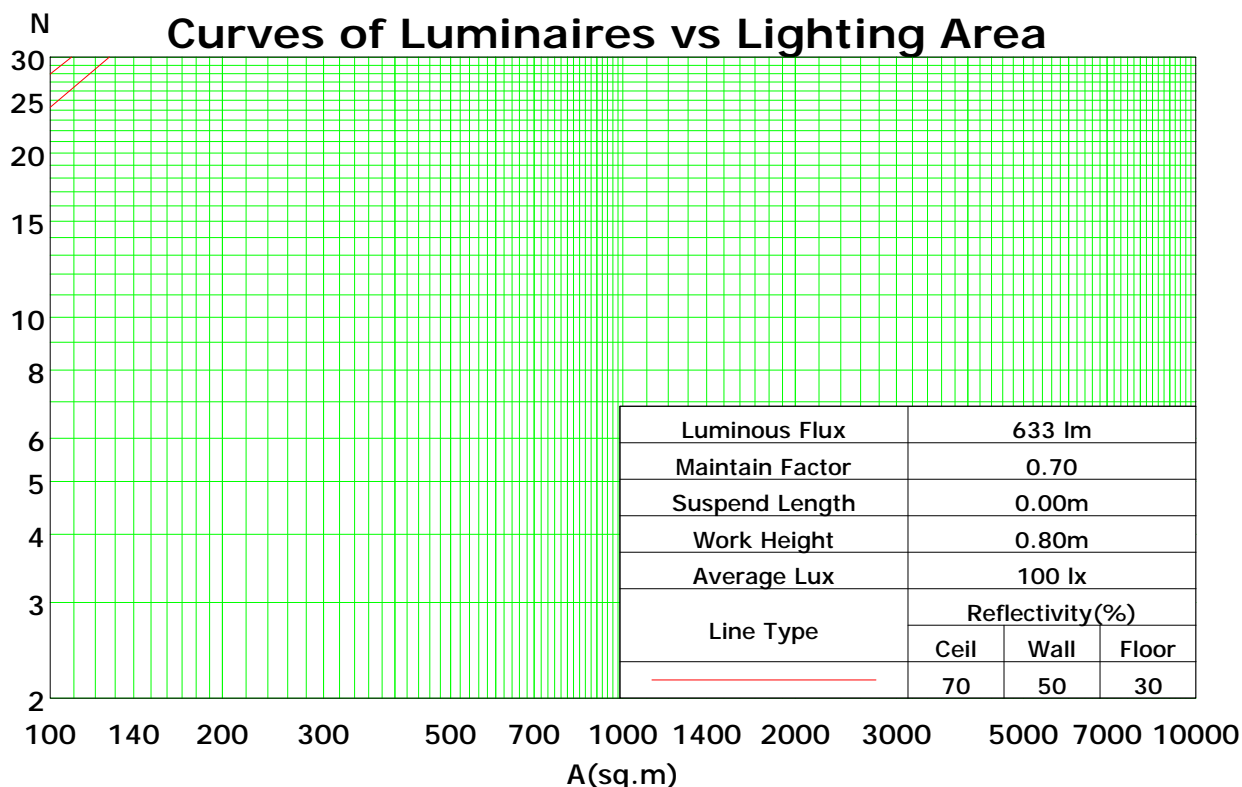
Coefficients Of Utilization - Zonal Cavity Method

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	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	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

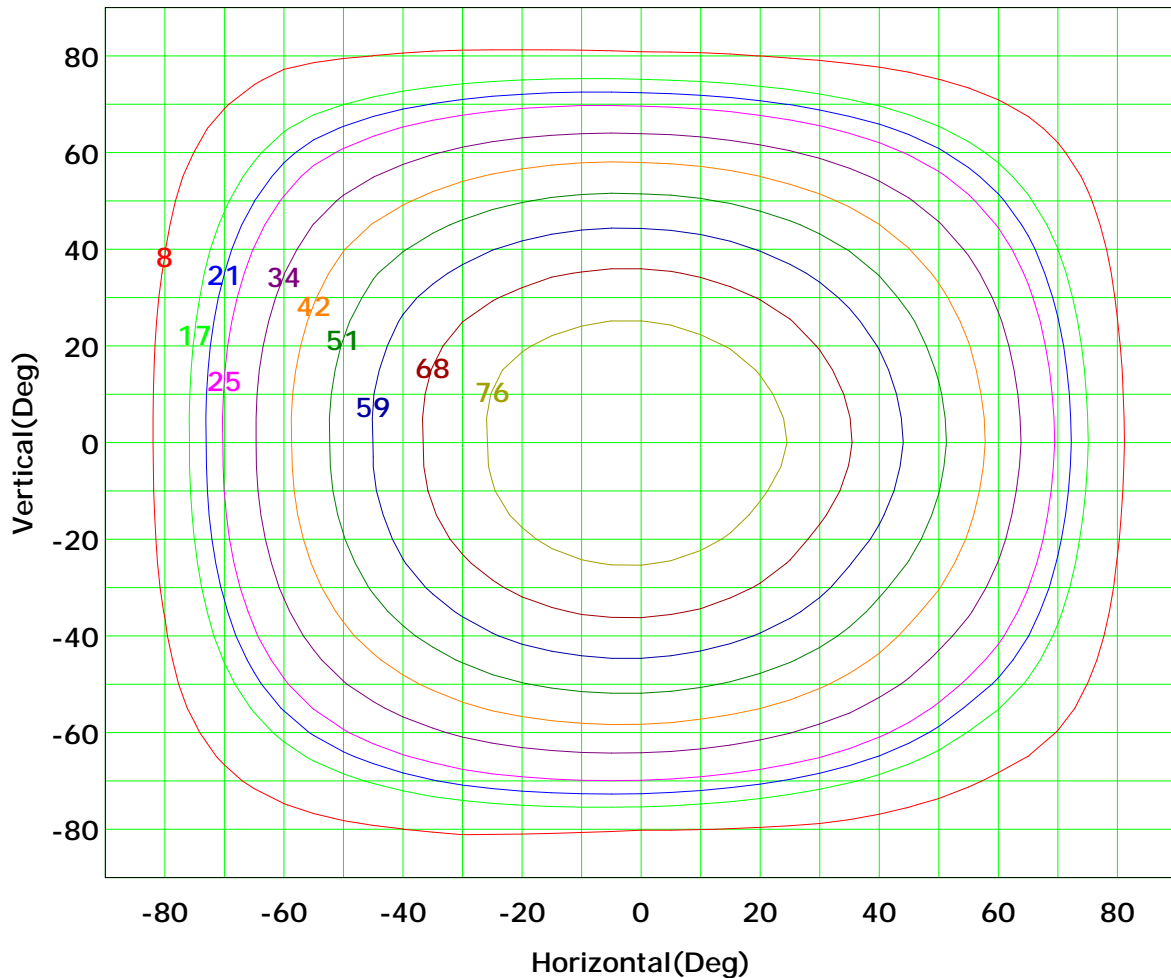
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 85 cd

(10%):	8 cd	(20%):	17 cd
(25%):	21 cd	(30%):	25 cd
(40%):	34 cd	(50%):	42 cd
(60%):	51 cd	(70%):	59 cd
(80%):	68 cd	(90%):	76 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

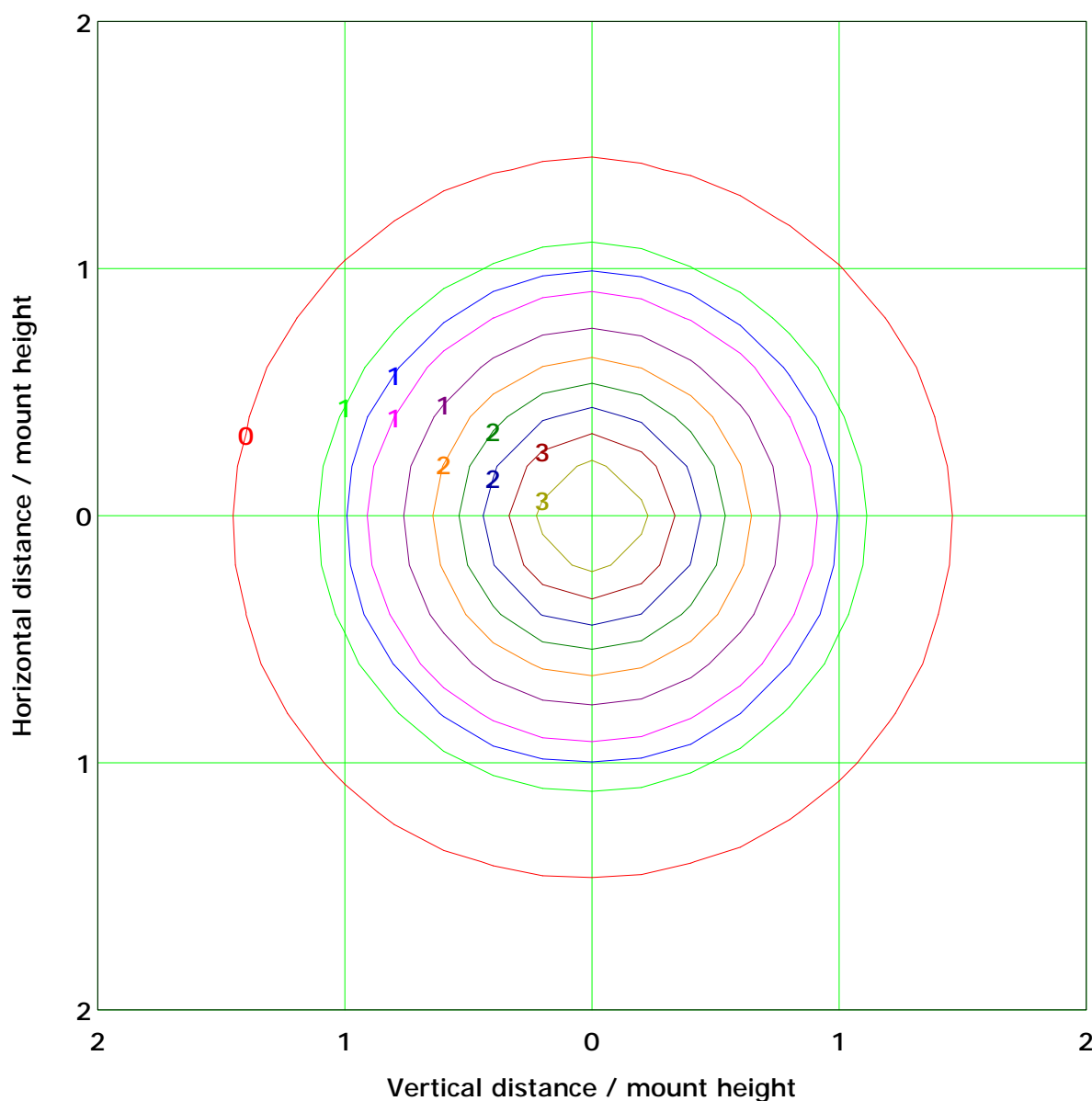
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.4 lx

(10%): 0.3 lx	(20%): 0.7 lx
(25%): 0.8 lx	(30%): 1.0 lx
(40%): 1.4 lx	(50%): 1.7 lx
(60%): 2.0 lx	(70%): 2.4 lx
(80%): 2.7 lx	(90%): 3.1 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

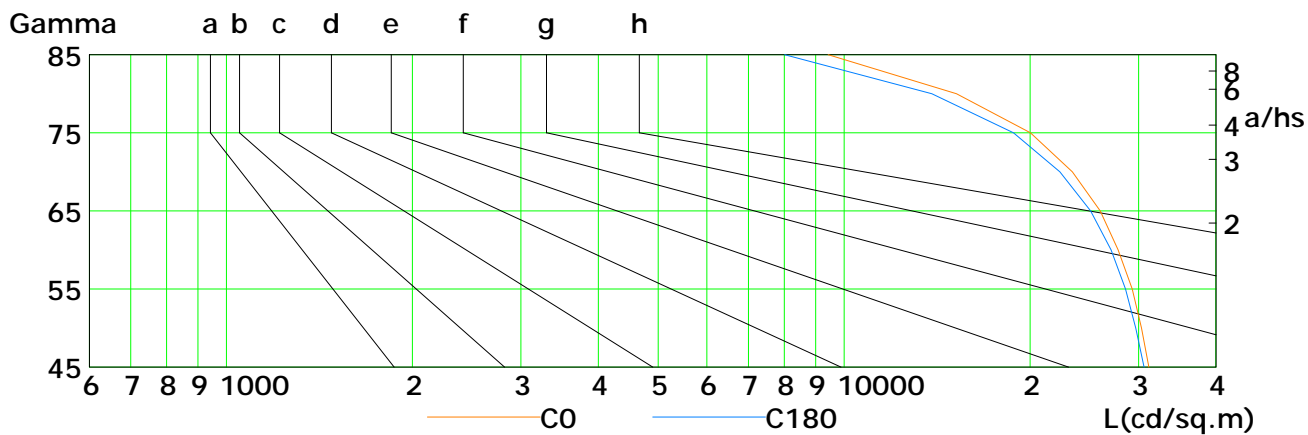
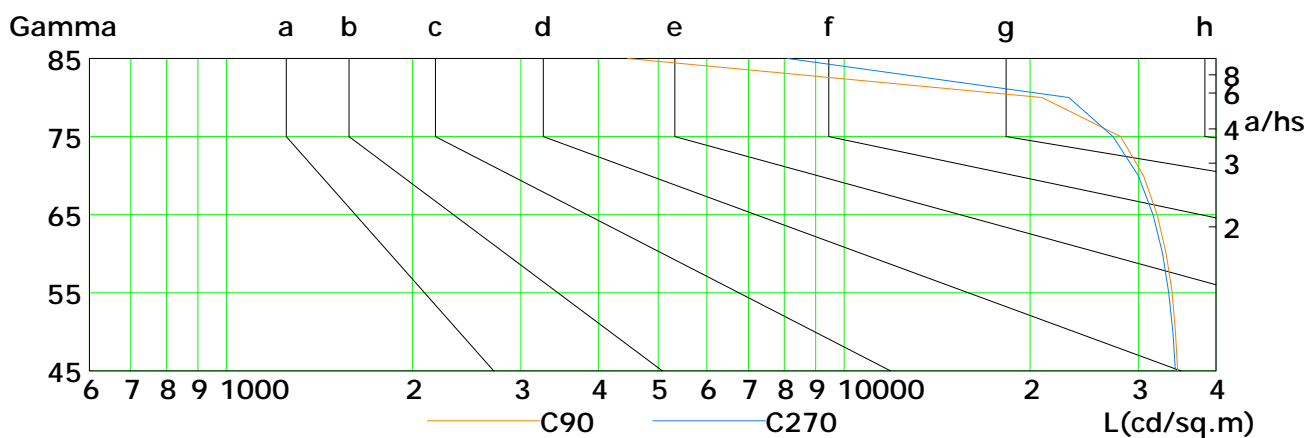
Humidity: 60%

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	31149	30324	29291	27798	25984	23432	20023	15206	9429
C90	34703	34407	33995	33233	32148	30542	28033	20912	4467
C180	30599	29664	28545	27065	25059	22362	18816	13873	8011
C270	34416	34071	33554	32786	31658	29963	27254	23126	8105

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

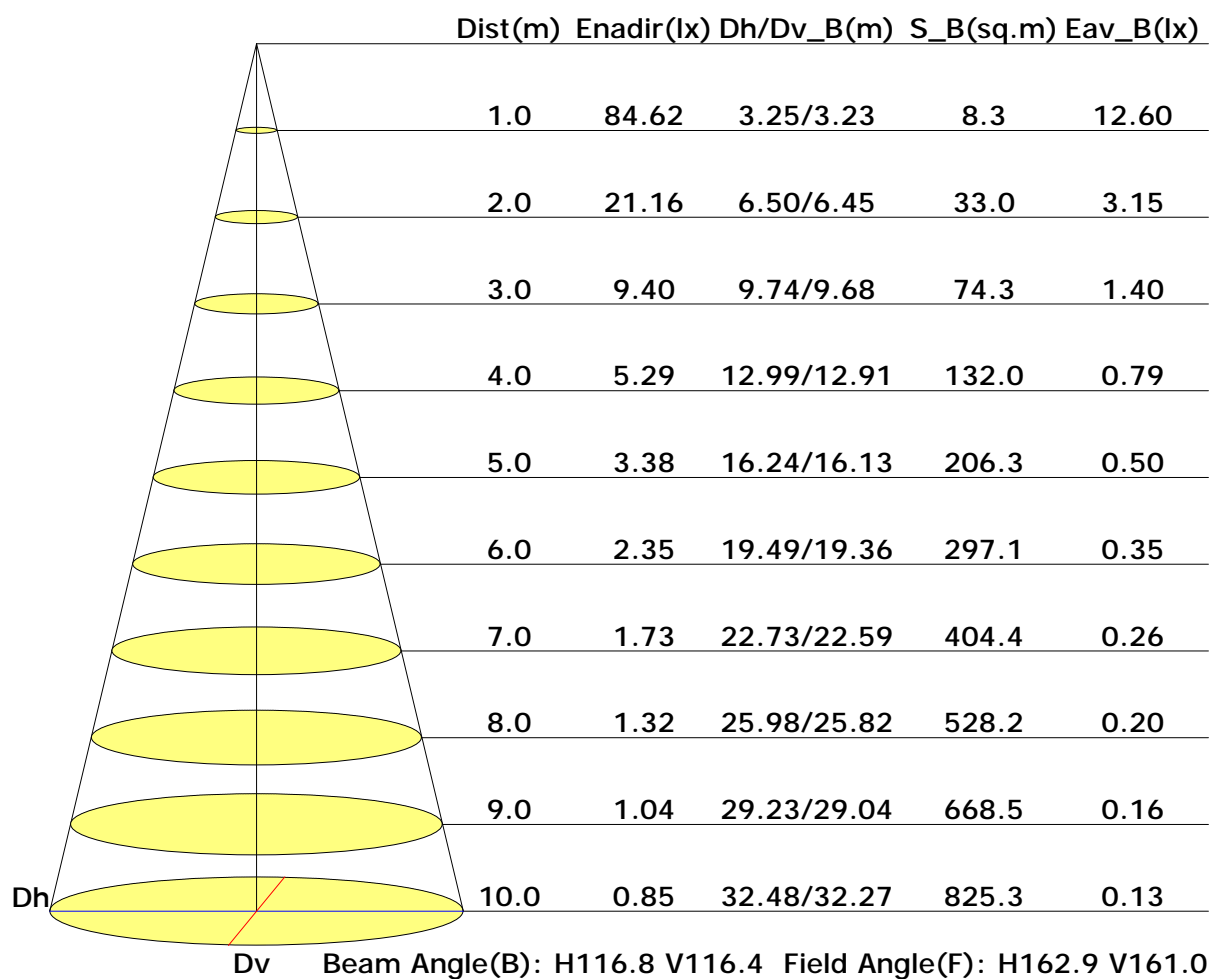
Test Device: GPM-1800B

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

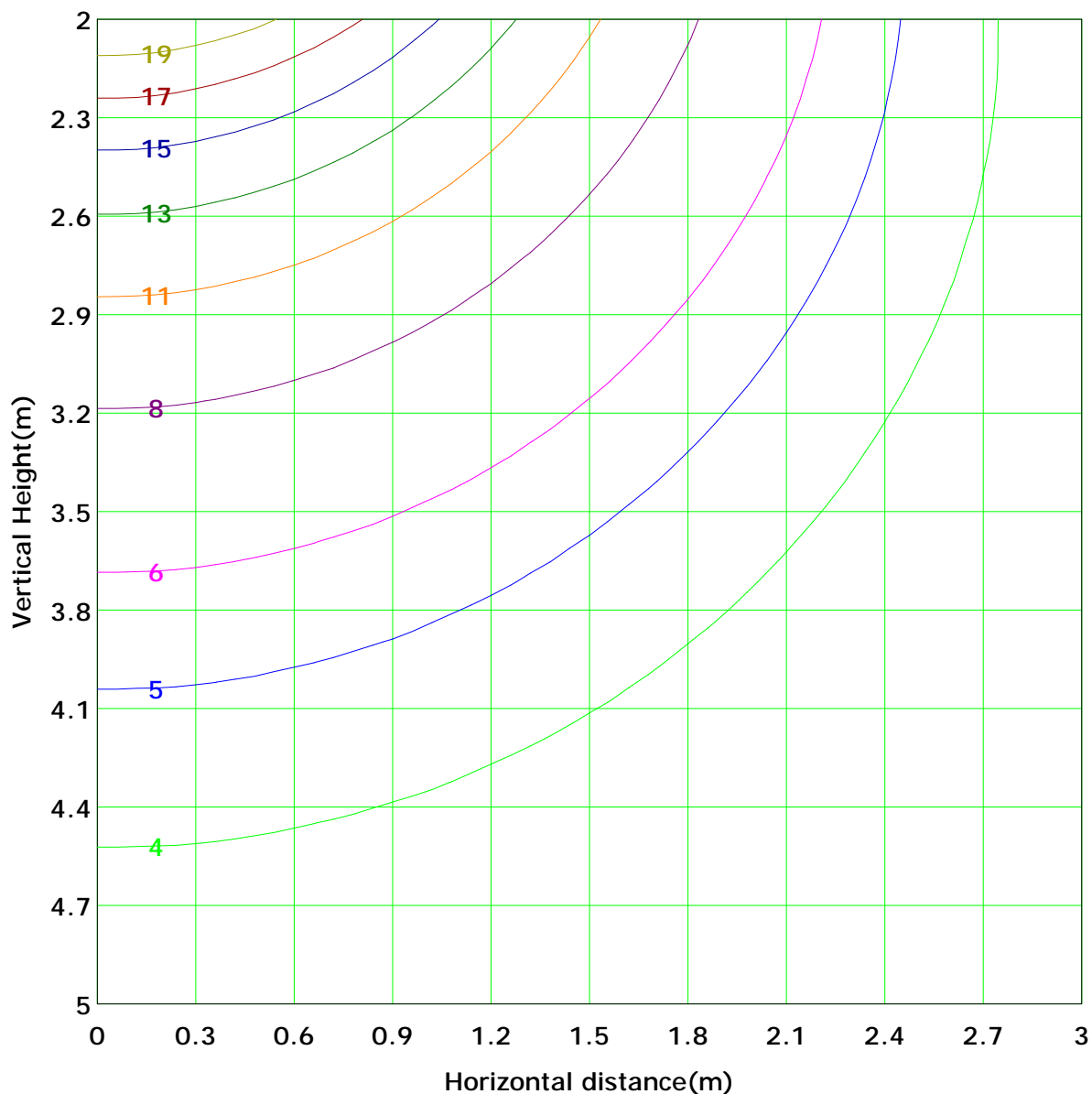
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 21.2 lx
(10%): 2.1 lx	(20%): 4.2 lx	
(25%): 5.3 lx	(30%): 6.3 lx	
(40%): 8.5 lx	(50%): 10.6 lx	
(60%): 12.7 lx	(70%): 14.8 lx	
(80%): 16.9 lx	(90%): 19.0 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	0.0	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	0.2	0.2	0.0
	-80	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.4	1.4	1.2
	-70	0.0	0.0	0.1	0.3	0.4	0.6	0.9	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.5	2.6	2.8	2.9	4.3	4.3	4.0
	-60	0.0	0.1	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.0	3.3	3.6	3.9	4.2	4.5	8.4	8.4	8.1
	-50	0.0	0.1	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	13.3	13.3	13.0
	-40	0.0	0.1	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	18.3	18.3	18.1
	-30	0.0	0.1	0.7	1.0	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	22.8	22.8	22.6
	-20	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	26.2	26.2	26.1
	-10	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	28.2	28.2	28.0
	0	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	28.4	28.4	28.3
	10	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	27.0	27.0	26.8
	20	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	23.9	23.9	23.7
	30	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	19.6	19.6	19.4
	40	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	14.5	14.5	14.3
	50	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	9.4	9.4	9.2
	60	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	4.9	4.9	4.7
	70	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	1.7	1.7	1.5
	80	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	0.2	0.2	0.0
	90	0.0	0.1	0.8	1.1	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	0.2	0.2	0.0
	Flux(T)	0.0	0.1	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	253	253	249
	Flux(E)	0.0	0.1	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	0.1	0.1	0.1

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

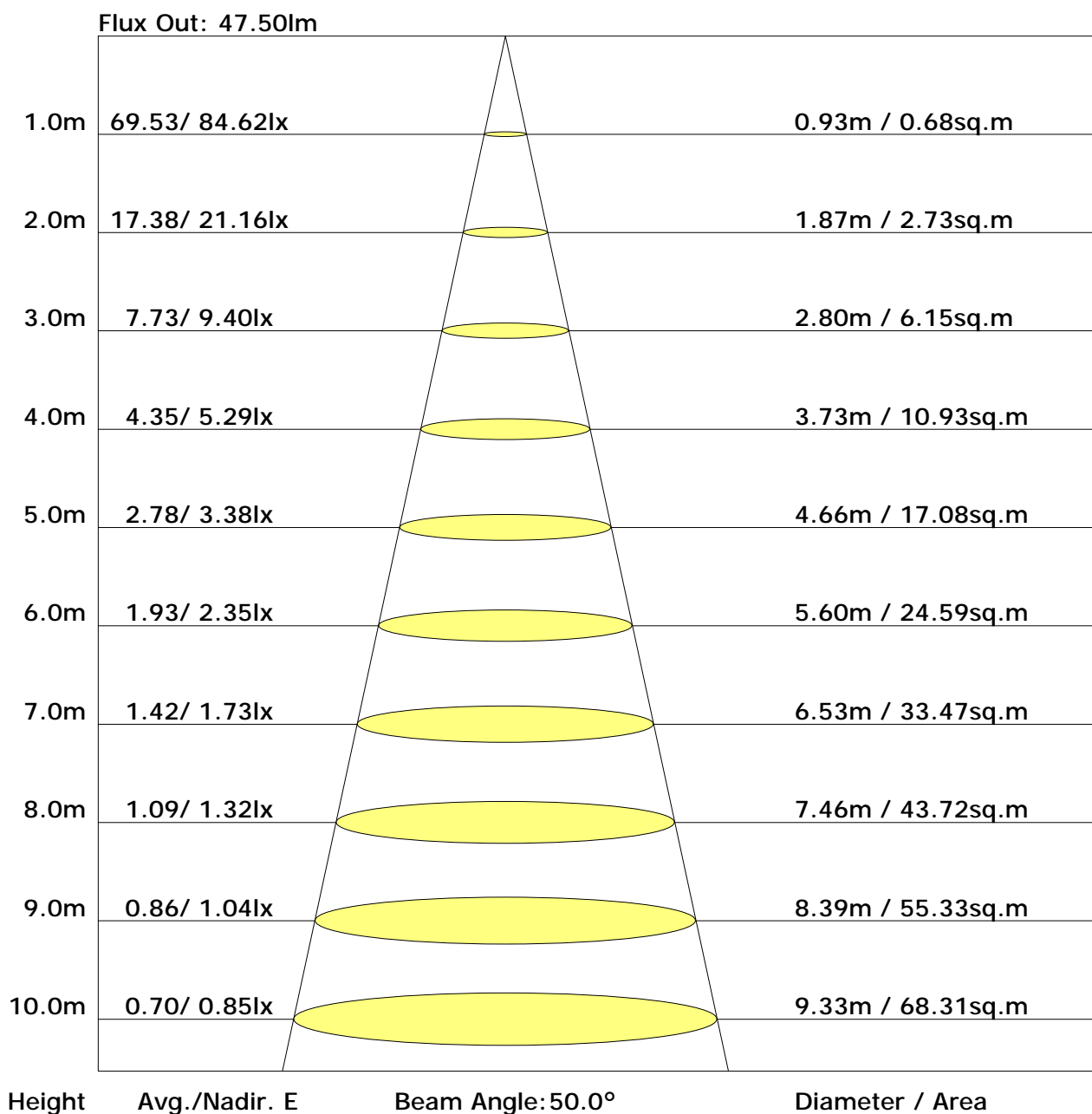
Test Device: GPM-1800B

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	29.2	30.9	29.6	31.2	31.5	28.6	30.3	29.0	30.6	30.9
3H	31.1	32.6	31.5	33.0	33.3	30.3	31.8	30.7	32.2	32.5
4H	31.8	33.2	32.3	33.6	34.0	30.9	32.3	31.3	32.7	33.1
6H	32.4	33.7	32.8	34.0	34.4	31.3	32.6	31.7	32.9	33.4
8H	32.5	33.8	32.9	34.2	34.6	31.3	32.6	31.7	33.0	33.4
12H	32.6	33.8	33.1	34.2	34.7	31.3	32.5	31.7	32.9	33.3
X=4H Y=2H	29.9	31.3	30.3	31.6	32.0	29.3	30.7	29.7	31.0	31.4
3H	32.0	33.2	32.4	33.6	34.0	31.2	32.4	31.6	32.8	33.2
4H	32.8	33.9	33.3	34.3	34.8	31.9	32.9	32.3	33.4	33.8
6H	33.5	34.4	33.9	34.8	35.3	32.3	33.3	32.8	33.7	34.2
8H	33.7	34.5	34.1	35.0	35.5	32.4	33.3	32.9	33.7	34.2
12H	33.8	34.6	34.3	35.1	35.6	32.4	33.2	32.9	33.7	34.2
X=8H Y=4H	33.1	34.0	33.6	34.4	34.9	32.2	33.0	32.6	33.5	34.0
6H	33.8	34.6	34.4	35.1	35.6	32.7	33.4	33.2	33.9	34.4
8H	34.2	34.8	34.7	35.3	35.8	32.8	33.5	33.4	34.0	34.5
12H	34.4	35.0	34.9	35.5	36.0	32.9	33.4	33.4	33.9	34.5
X=12H Y=4H	33.1	33.9	33.6	34.4	34.9	32.2	33.0	32.7	33.5	34.0
6H	33.9	34.6	34.4	35.0	35.6	32.8	33.4	33.3	33.9	34.4
8H	34.2	34.8	34.8	35.3	35.9	32.9	33.5	33.4	34.0	34.6

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	0.55	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03
	0.30		0.47	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	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	0.98
	0.30		0.46	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.41	0.51	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.88	0.92	0.94
	0.30		0.46	0.56	0.63	0.68	0.75	0.81	0.84	0.89	0.92
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.39	0.48	0.55	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	0.50	0.41	0.35	0.27	0.22
	0.30		0.85	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.73	0.63	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.26	0.21
	0.30		0.83	0.70	0.61	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.30	0.23	0.20
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.38	0.32	0.25	0.20
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15
<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(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	0.17	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: 2W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											