

Report No.:

Test Time: 2018/8/30 16:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2246.040PH 1FT(320mm)

Luminous Length (mm): 320

Luminous Width (mm): 10

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.261 A

Power: 6.26 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 812.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H117.8

Vertical Diffuse Angle(50%): V117.8

Luminaire Efficacy Rating (LER): 130

Max. Intensity: 267.93 cd

Total Rated Lamp Lumens: 812.6 lm

Efficiency: 100%

Upward Ratio: 1%

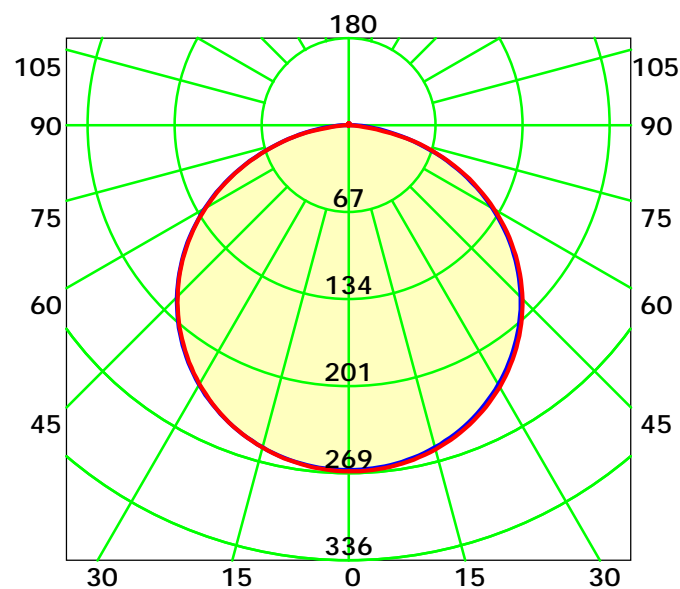
Central Intensity: 266.49 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 117.8° 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

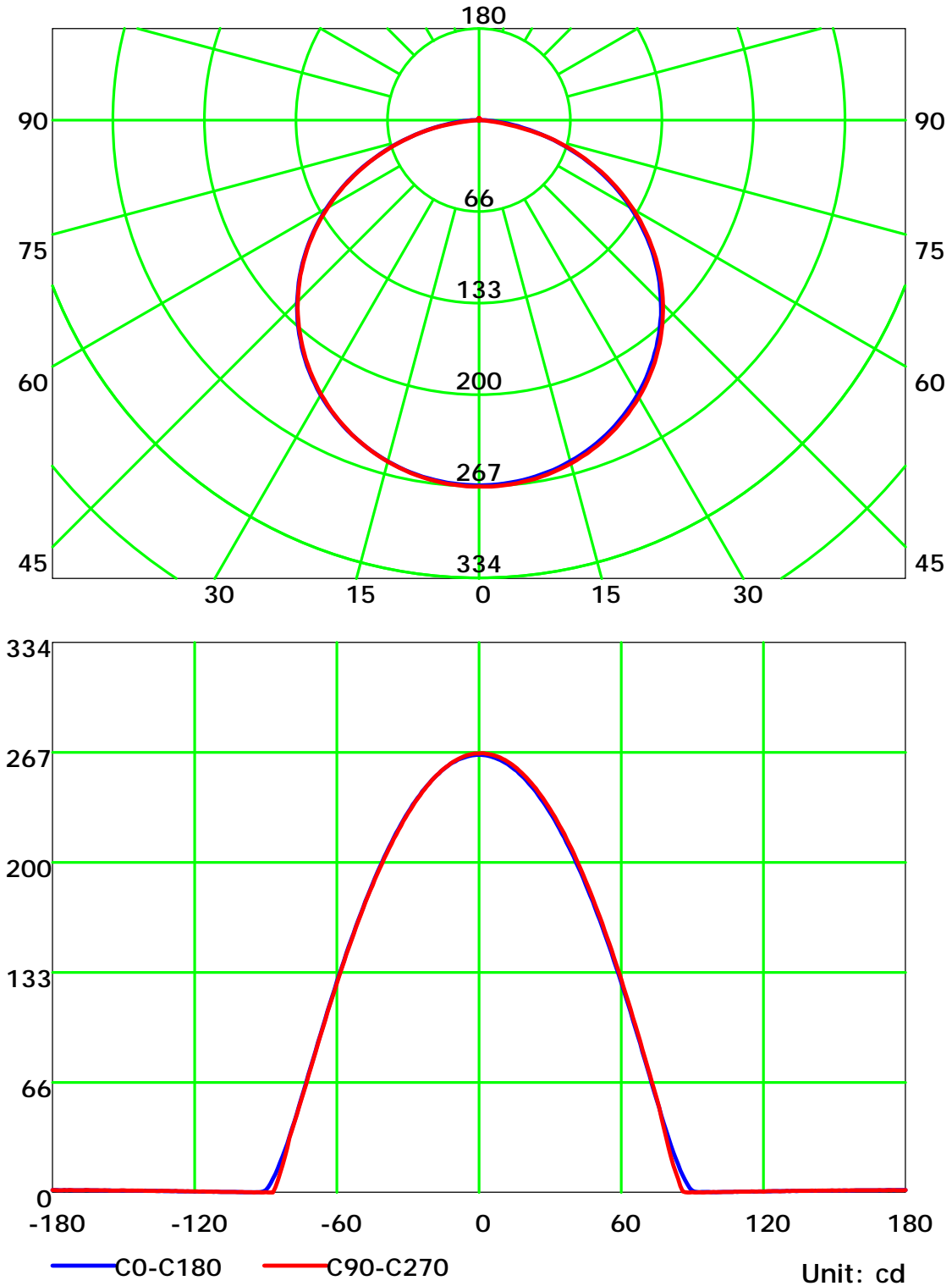
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

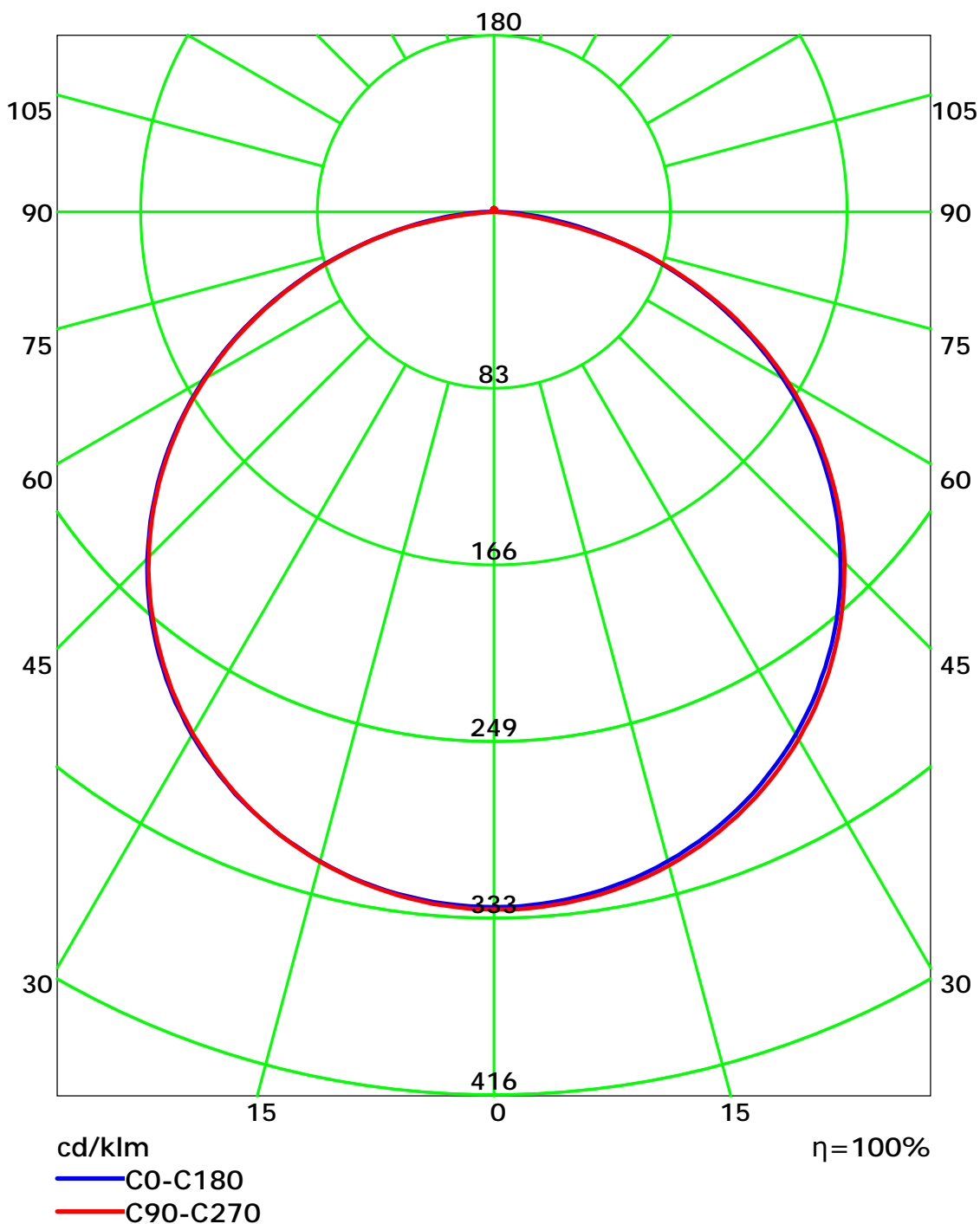
Luminous Intensity Distribution Curve



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:

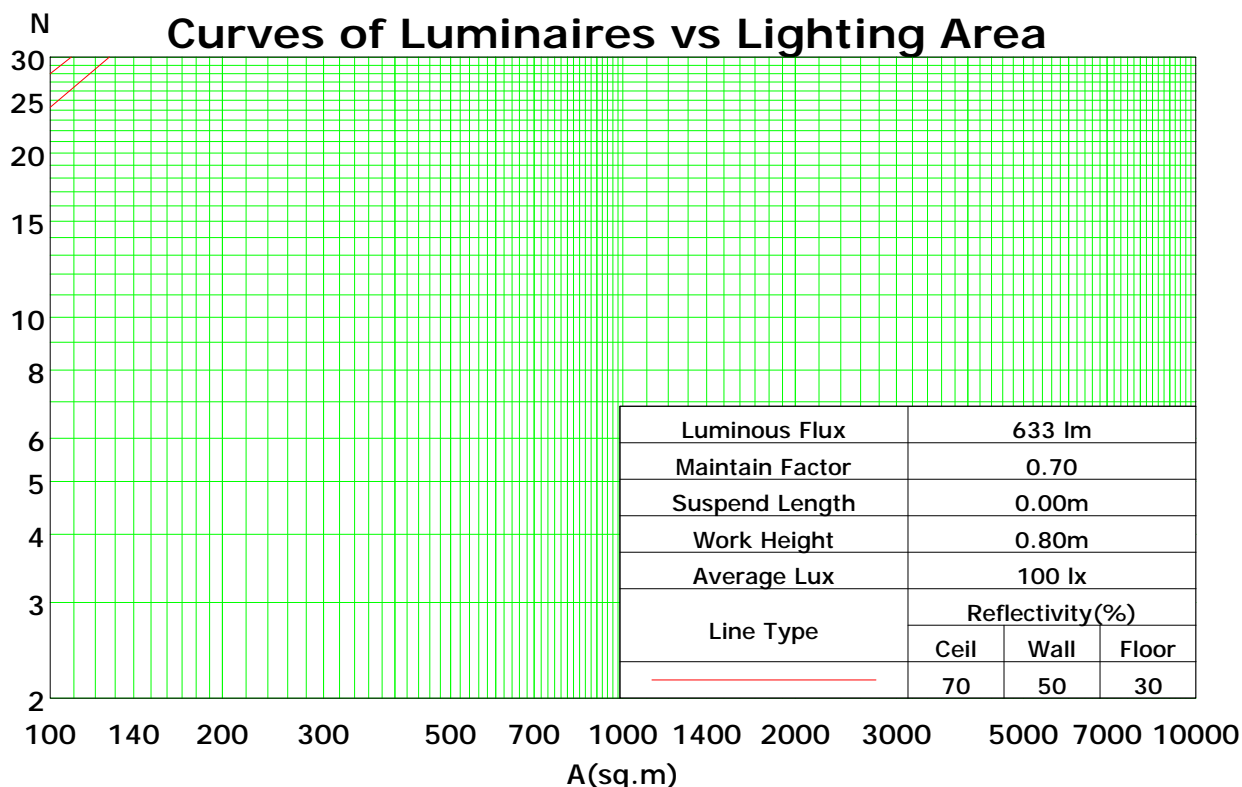
Coefficients Of Utilization - Zonal Cavity Method

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	103	99	95	106	101	97	94	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	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	59	57
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.29

Spacing Criteria (Diagonal): 1.42



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

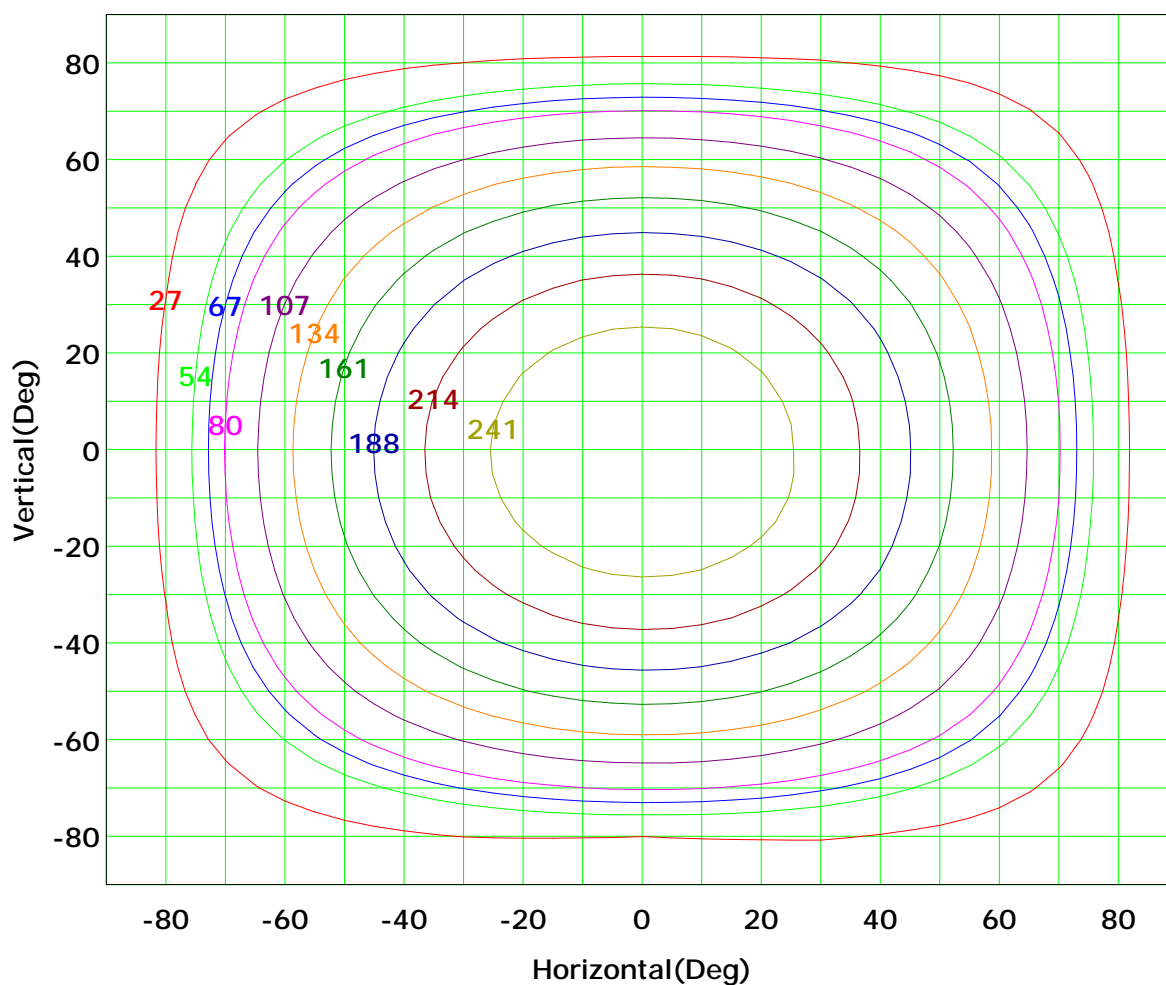
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 268 cd

(10%): 27 cd	(20%): 54 cd
(25%): 67 cd	(30%): 80 cd
(40%): 107 cd	(50%): 134 cd
(60%): 161 cd	(70%): 188 cd
(80%): 214 cd	(90%): 241 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

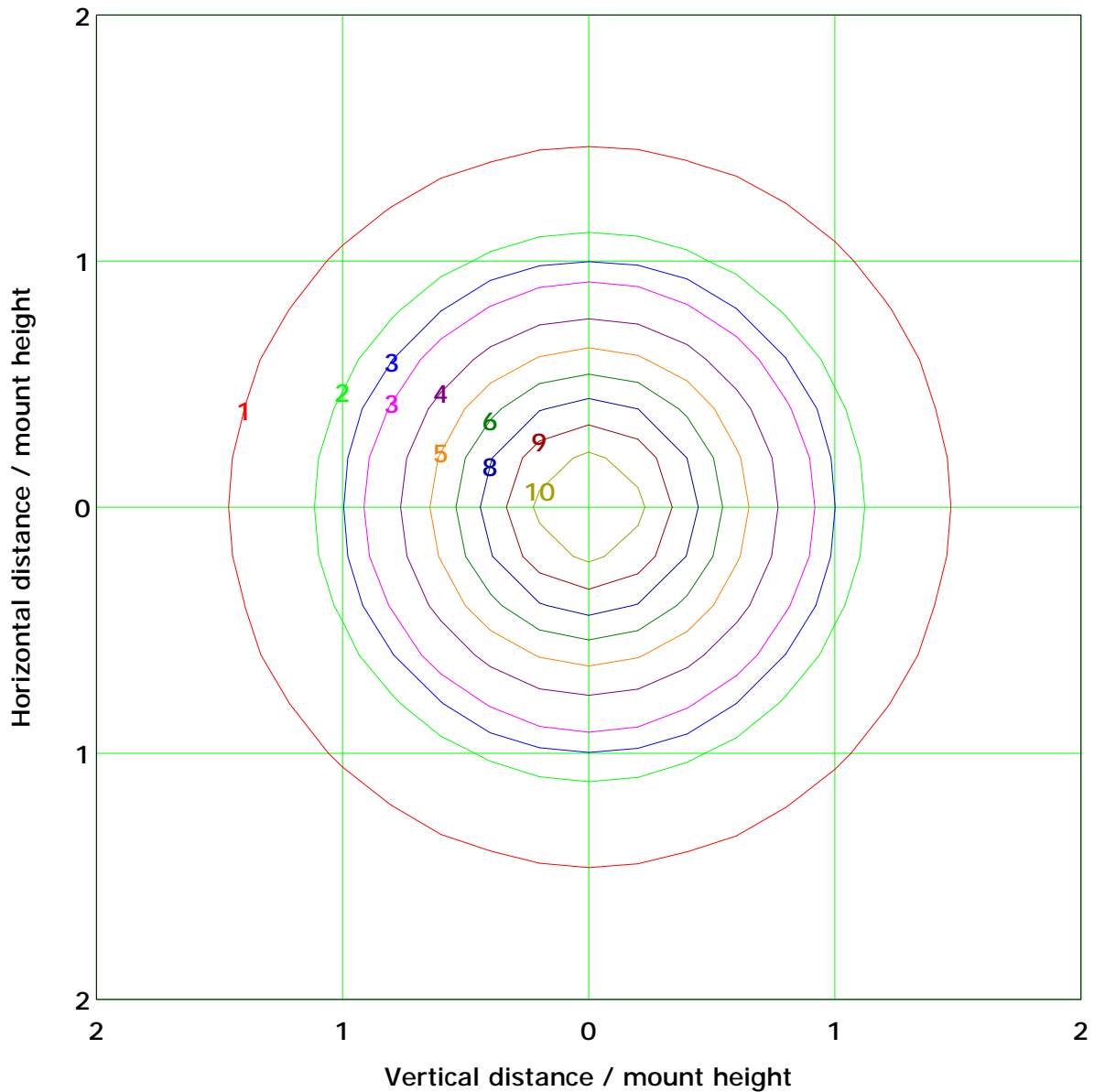
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 10.7 lx	
(10%):	1.1 lx	(20%):	2.1 lx
(25%):	2.7 lx	(30%):	3.2 lx
(40%):	4.3 lx	(50%):	5.4 lx
(60%):	6.4 lx	(70%):	7.5 lx
(80%):	8.6 lx	(90%):	9.6 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

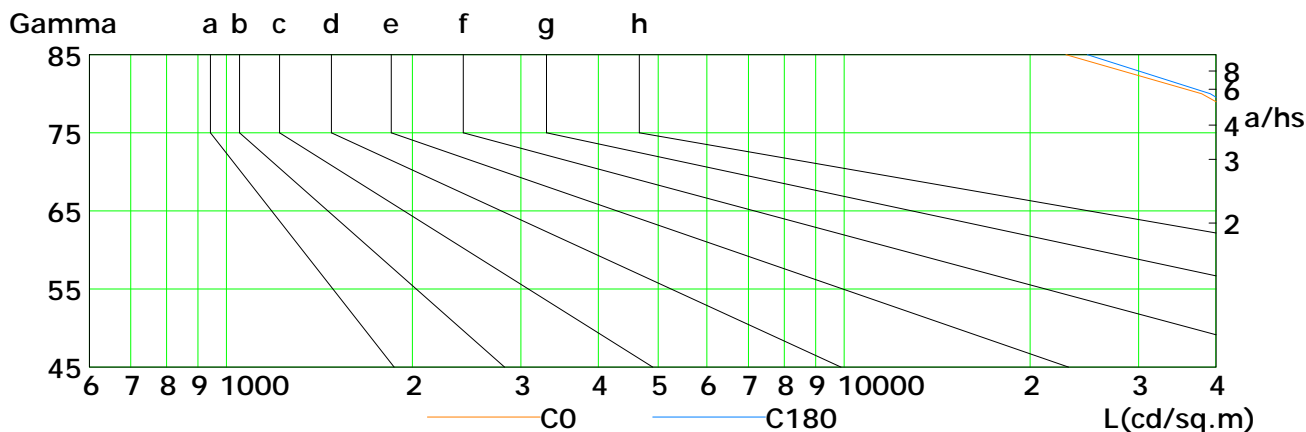
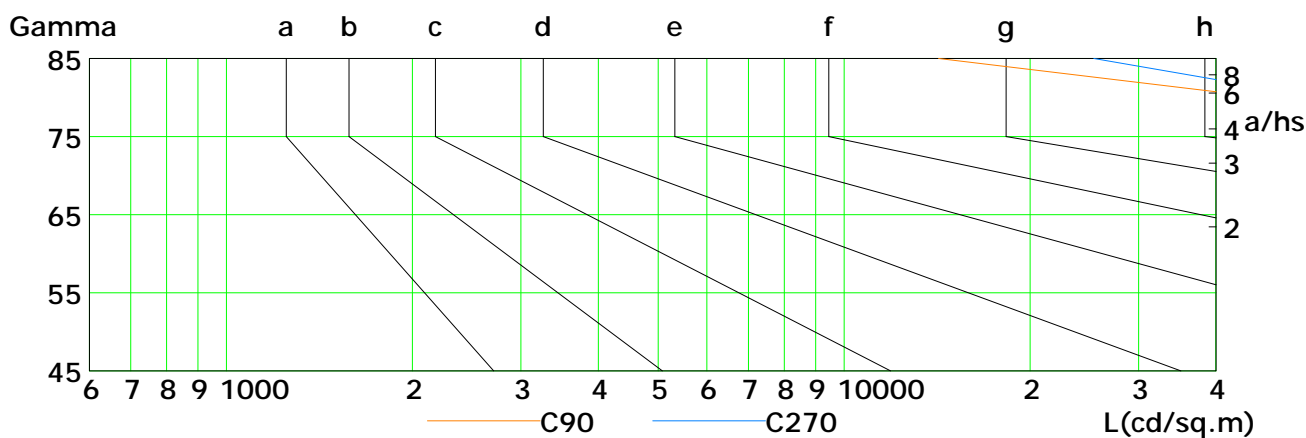
Humidity: 60%

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	75468	73660	71411	68147	63901	57993	49582	37953	22872
C90	83721	83136	82305	80750	78380	74529	68351	48133	14228
C180	75536	73699	71502	68509	64357	58473	50602	39170	24762
C270	82421	81847	80857	79277	76970	73252	67659	59149	25376

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

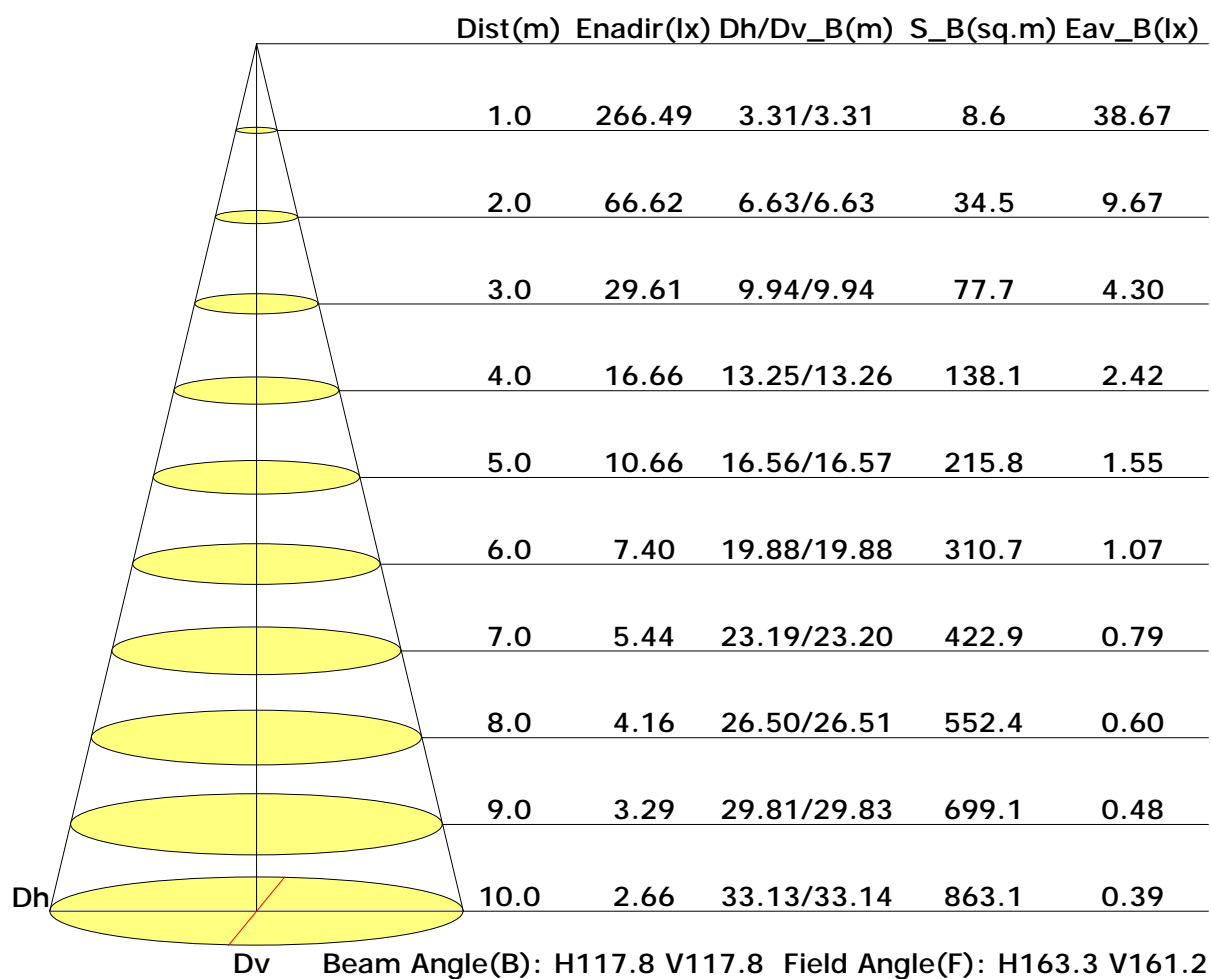
Test Device: GPM-1800B

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

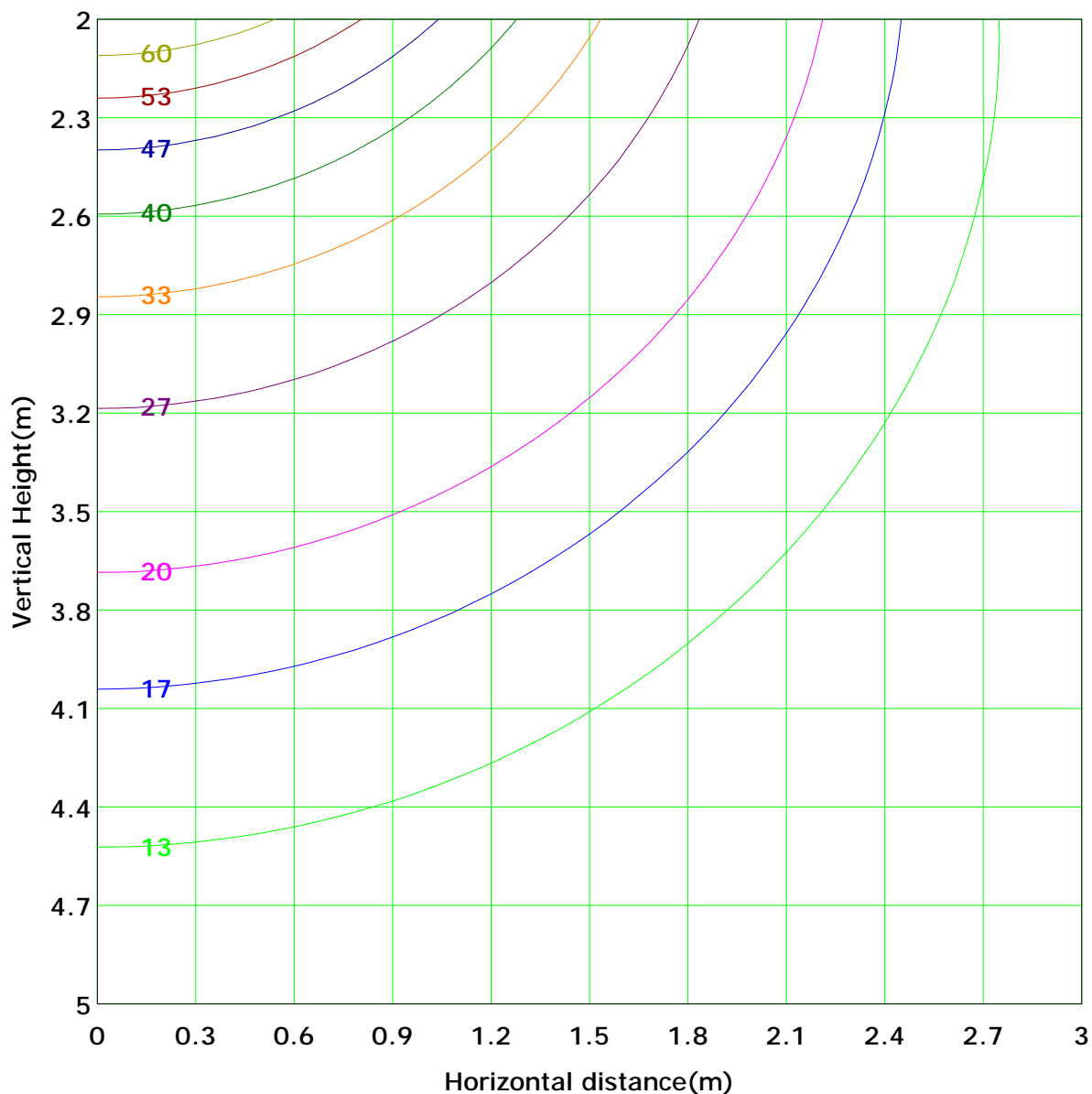
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 66.6 lx
(10%): 6.7 lx	(20%): 13.3 lx	
(25%): 16.7 lx	(30%): 20.0 lx	
(40%): 26.6 lx	(50%): 33.3 lx	
(60%): 40.0 lx	(70%): 46.6 lx	
(80%): 53.3 lx	(90%): 60.0 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	0.1	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	3.7	0.5
	-80	0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.2	0.1	0.0	0.0	14.7	13.5
	-70	0.0	0.2	0.5	0.9	1.5	2.1	2.6	3.0	3.2	3.1	2.9	2.5	2.0	1.4	0.9	0.4	0.1	0.0	0.0	27.4	27.0
	-60	0.0	0.2	0.7	1.4	2.2	3.0	3.7	4.2	4.5	4.5	4.2	3.7	2.9	2.1	1.3	0.7	0.2	0.0	0.0	39.5	39.3
	-50	0.0	0.3	0.9	1.8	2.8	3.8	4.7	5.3	5.6	5.6	5.3	4.6	3.7	2.7	1.7	0.9	0.3	0.0	0.0	50.1	50.0
	-40	0.0	0.4	1.1	2.1	3.3	4.4	5.4	6.2	6.6	6.6	6.2	5.4	4.4	3.2	2.1	1.1	0.4	0.0	0.0	58.8	58.7
	-30	0.0	0.4	1.2	2.4	3.6	4.9	6.0	6.9	7.3	7.3	6.8	6.0	4.9	3.6	2.3	1.2	0.4	0.0	0.0	65.4	65.4
	-20	0.1	0.5	1.3	2.5	3.9	5.3	6.4	7.3	7.8	7.8	7.3	6.4	5.2	3.9	2.5	1.3	0.4	0.1	0.1	70.0	69.9
	-10	0.1	0.5	1.4	2.6	4.0	5.4	6.6	7.5	8.0	8.0	7.5	6.6	5.4	4.0	2.6	1.4	0.5	0.1	0.1	72.2	72.2
	0	0.1	0.5	1.4	2.6	4.0	5.4	6.7	7.6	8.0	8.0	7.5	6.6	5.4	4.0	2.6	1.4	0.5	0.1	0.1	72.4	72.3
	10	0.1	0.5	1.3	2.5	3.9	5.3	6.5	7.4	7.8	7.8	7.3	6.5	5.3	3.9	2.5	1.3	0.4	0.1	0.1	70.4	70.3
	20	0.1	0.4	1.2	2.4	3.7	5.0	6.1	6.9	7.4	7.3	6.9	6.1	4.9	3.6	2.3	1.2	0.4	0.0	0.0	66.1	66.0
	30	0.0	0.4	1.1	2.1	3.3	4.5	5.5	6.3	6.7	6.6	6.2	5.5	4.4	3.3	2.1	1.1	0.4	0.0	0.0	59.5	59.4
	40	0.0	0.3	0.9	1.8	2.8	3.8	4.7	5.4	5.7	5.7	5.3	4.7	3.8	2.8	1.8	0.9	0.3	0.0	0.0	50.8	50.7
	50	0.0	0.2	0.7	1.4	2.2	3.0	3.8	4.3	4.6	4.6	4.3	3.7	3.0	2.2	1.4	0.7	0.2	0.0	0.0	40.2	40.0
	60	0.0	0.2	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.6	2.1	1.5	0.9	0.4	0.1	0.0	0.0	28.0	27.6
	70	0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.2	0.1	0.0	0.0	14.9	13.8
	80	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	3.6	0.2
	90	0.6	5.1	14.9	28.9	44.9	61.0	75.0	85.1	90.3	90.2	84.7	74.3	60.2	44.2	28.2	14.5	4.9	0.6	0.6	808	
	Flux(E)	0.1	4.4	14.2	28.2	44.3	60.4	74.4	84.6	89.8	89.7	84.1	73.7	59.6	43.6	27.6	13.8	4.2	0.1	0.1	797	

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

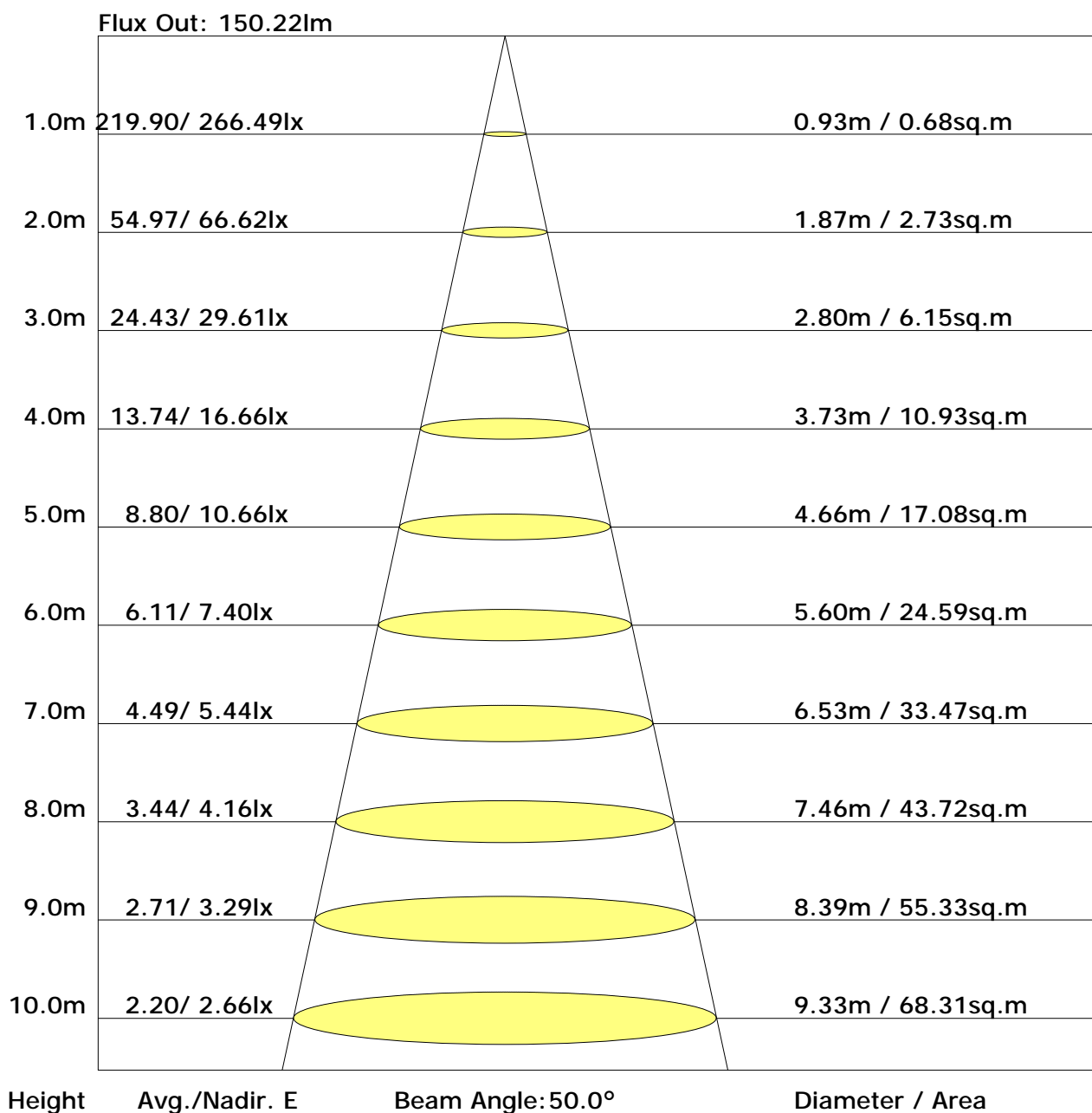
Test Device: GPM-1800B

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	28.0	29.7	28.4	30.0	30.3	27.8	29.5	28.2	29.8	30.1
3H	29.9	31.4	30.3	31.7	32.1	29.6	31.1	30.0	31.4	31.8
4H	30.6	32.0	31.0	32.3	32.7	30.2	31.6	30.6	32.0	32.3
6H	31.1	32.4	31.5	32.7	33.1	30.5	31.8	30.9	32.2	32.6
8H	31.2	32.4	31.6	32.8	33.3	30.6	31.8	31.0	32.2	32.6
12H	31.3	32.5	31.7	32.9	33.3	30.6	31.8	31.0	32.2	32.6
X=4H Y=2H	28.6	30.0	29.0	30.4	30.8	28.5	29.9	28.9	30.3	30.6
3H	30.7	31.9	31.1	32.3	32.7	30.5	31.6	30.9	32.0	32.5
4H	31.5	32.5	31.9	33.0	33.4	31.2	32.2	31.6	32.7	33.1
6H	32.1	33.0	32.5	33.5	33.9	31.6	32.5	32.1	33.0	33.5
8H	32.3	33.1	32.7	33.6	34.1	31.7	32.6	32.2	33.0	33.5
12H	32.4	33.2	32.9	33.7	34.1	31.7	32.5	32.2	33.0	33.5
X=8H Y=4H	31.7	32.6	32.2	33.1	33.5	31.5	32.4	32.0	32.8	33.3
6H	32.4	33.2	32.9	33.6	34.1	32.0	32.8	32.5	33.3	33.7
8H	32.7	33.3	33.2	33.8	34.3	32.2	32.8	32.7	33.3	33.8
12H	32.9	33.4	33.4	33.9	34.5	32.2	32.8	32.7	33.3	33.9
X=12H Y=4H	31.8	32.5	32.2	33.0	33.5	31.5	32.3	32.0	32.8	33.3
6H	32.5	33.1	33.0	33.6	34.1	32.1	32.8	32.6	33.2	33.8
8H	32.7	33.3	33.3	33.8	34.4	32.3	32.8	32.8	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 = 1.50								
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	0.59	0.67	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.51	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.46	0.54	0.62	0.68	0.76	0.82	0.86	0.92	0.97
0.50	0.50	0.20	0.57	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.50	0.58	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.45	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.56	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.49	0.57	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.45	0.52	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.43	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.86
Rating: 6W 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(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
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	0.96	0.82	0.69	0.60	0.48	0.40	0.34	0.27	0.22	
	0.30		0.80	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.69	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.93	0.79	0.66	0.58	0.46	0.42	0.33	0.25	0.21	
	0.30		0.79	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.68	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.90	0.76	0.64	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.77	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.67	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.57	0.50	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
<p>Rating: 6W 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 = 1.50								
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	0.21	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17
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	0.11	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	0.19	0.20	0.20	0.20
	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:6W 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>											