

Report No.:

Test Time: 2018/8/21 10:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: AC RIBBONLYTE

Luminous Length (mm): 600

Luminous Height (mm): 5

Current: 0.071 A

Power Factor: 0.943

Luminaire Description: RBHIAC65120424

Luminous Width (mm): 15

Voltage: 119.7 V

Power: 8.01 W

Photometric Results

CIE Class: Direct

Measurement Flux: 521.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H114.7

Vertical Diffuse Angle(50%): V112.3

Luminaire Efficacy Rating (LER): 65

Max. Intensity: 191.43 cd

Total Rated Lamp Lumens: 521.9 lm

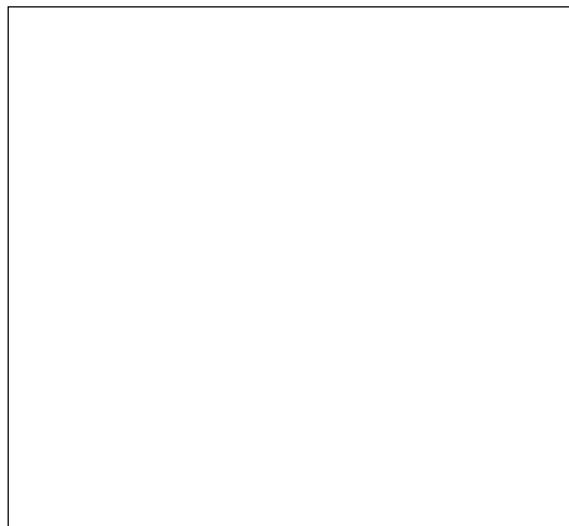
Efficiency: 100%

Upward Ratio: 1%

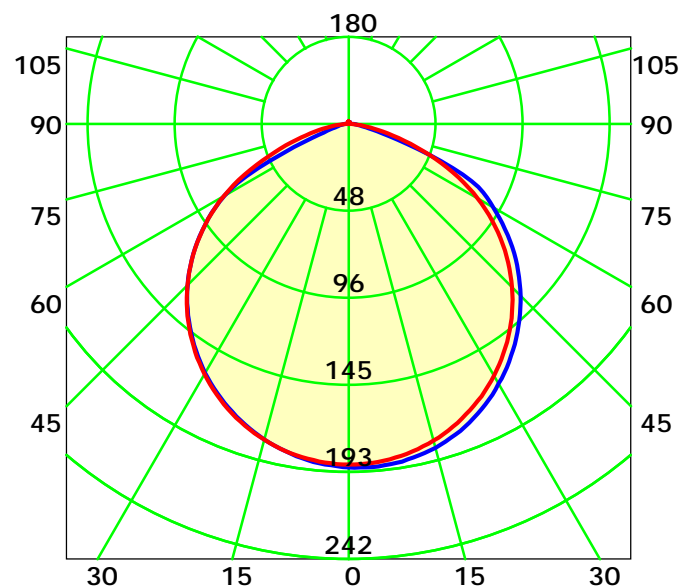
Central Intensity: 191.17 cd

Pos of Max. Intensity: H0 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 113.5° 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

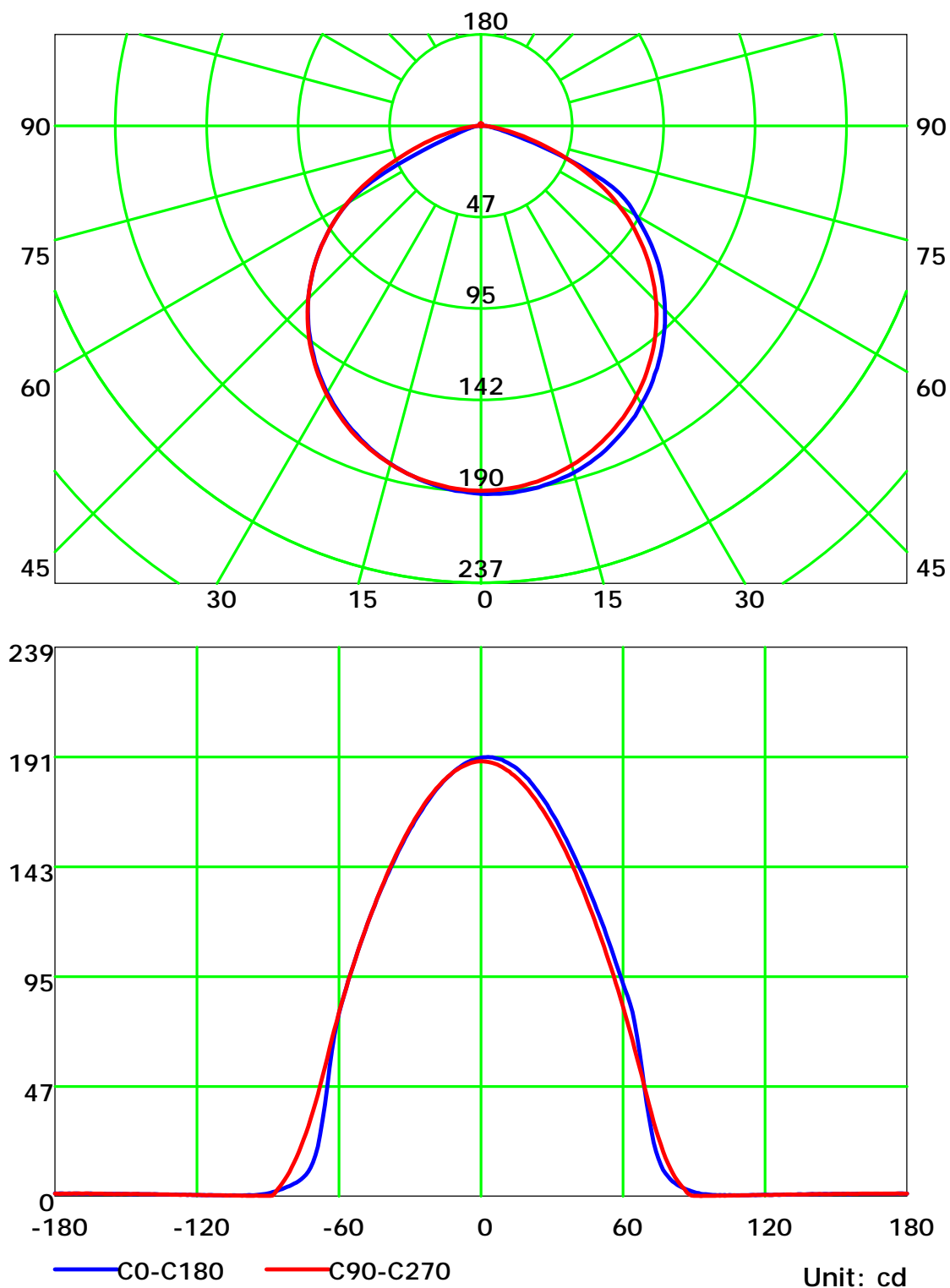
Test Device: GPM-1800B

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

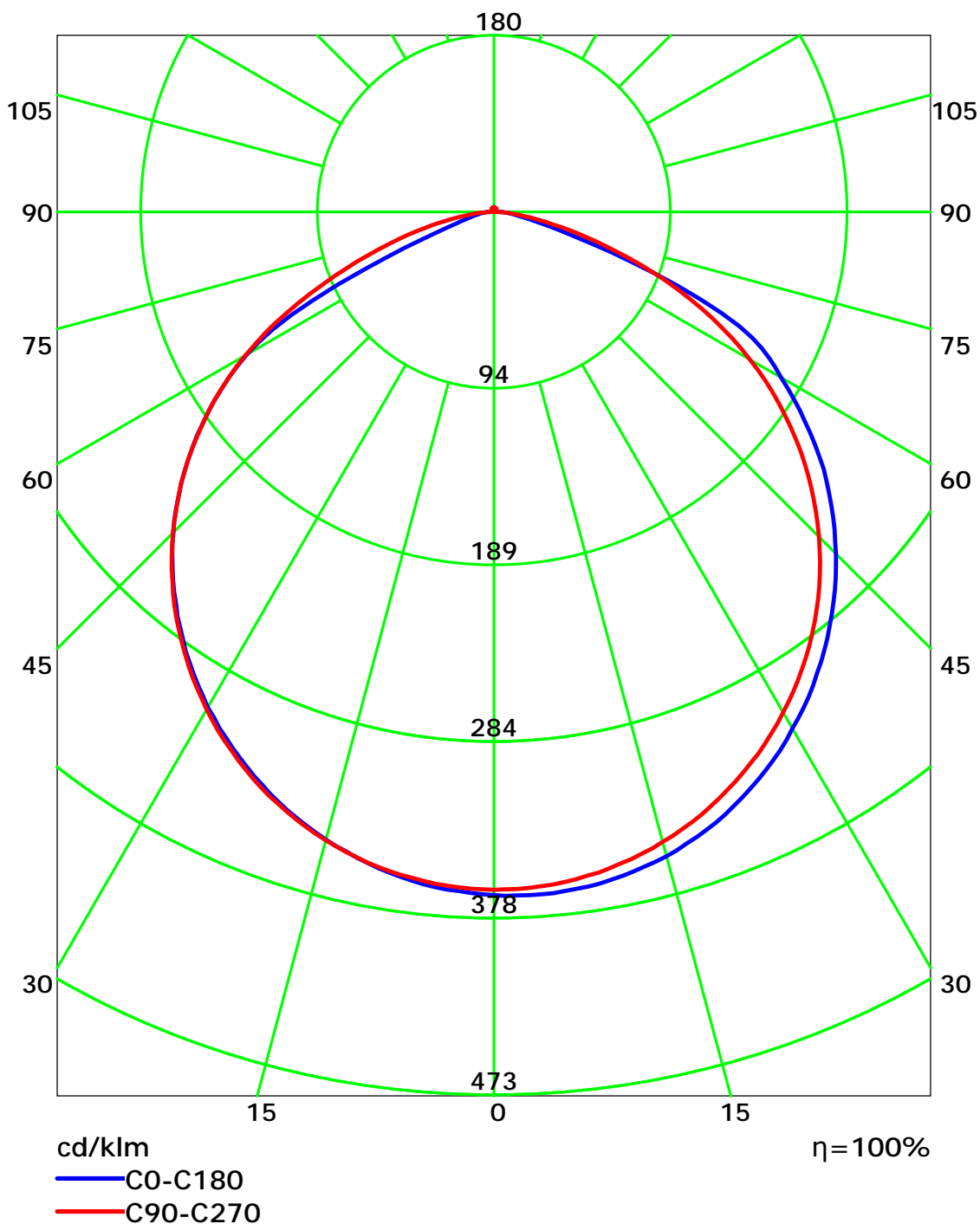
Test Device: GPM-1800B

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:

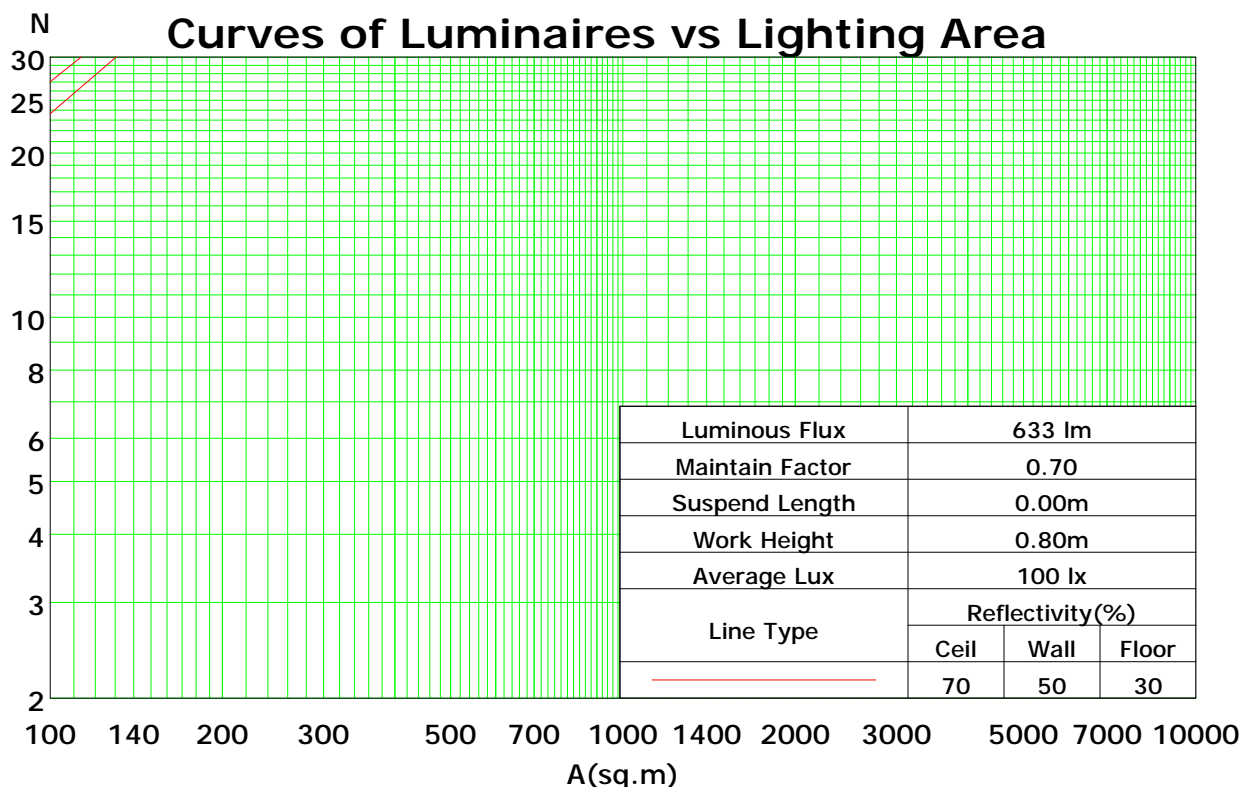
Coefficients Of Utilization - Zonal Cavity Method

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	98	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



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

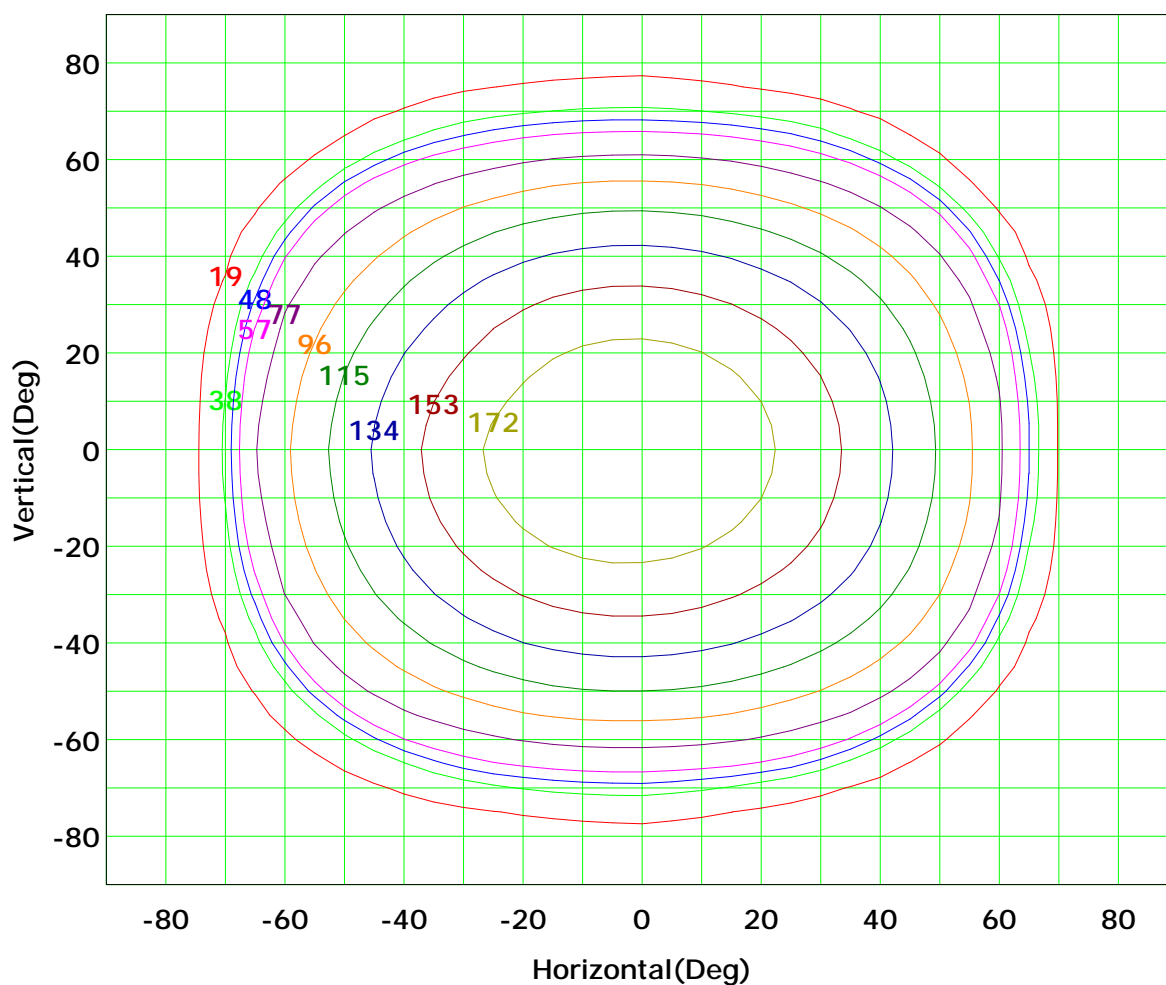
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 191 cd

(10%):	19 cd	(20%):	38 cd
(25%):	48 cd	(30%):	57 cd
(40%):	77 cd	(50%):	96 cd
(60%):	115 cd	(70%):	134 cd
(80%):	153 cd	(90%):	172 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

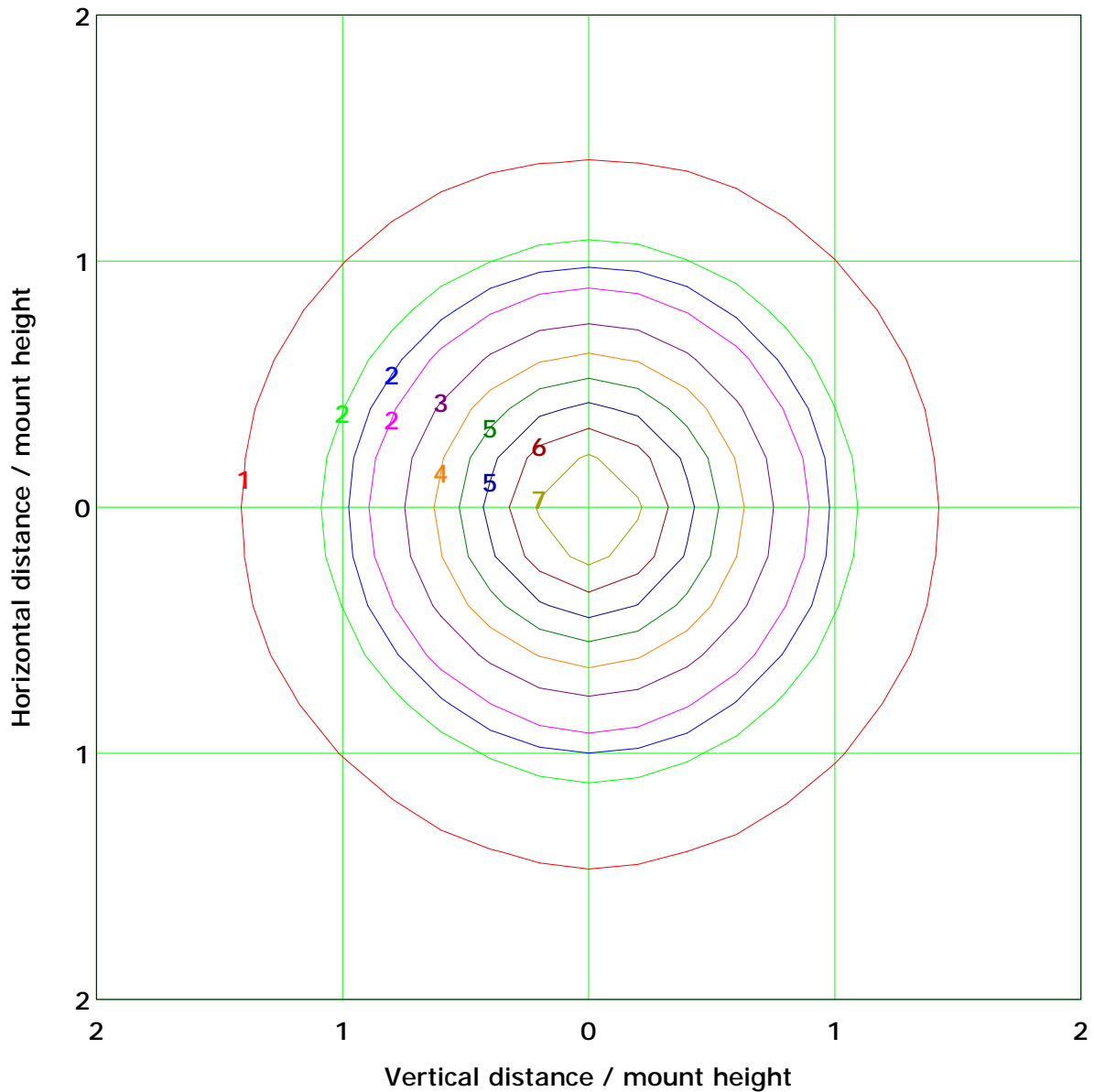
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 7.7 lx

(10%): 0.8 lx	(20%): 1.5 lx
(25%): 1.9 lx	(30%): 2.3 lx
(40%): 3.1 lx	(50%): 3.8 lx
(60%): 4.6 lx	(70%): 5.4 lx
(80%): 6.1 lx	(90%): 6.9 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

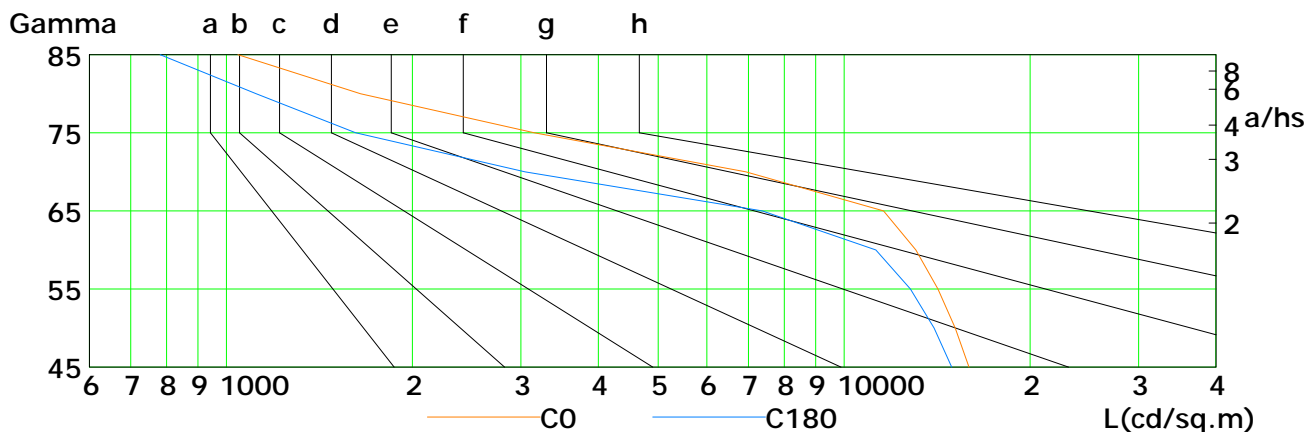
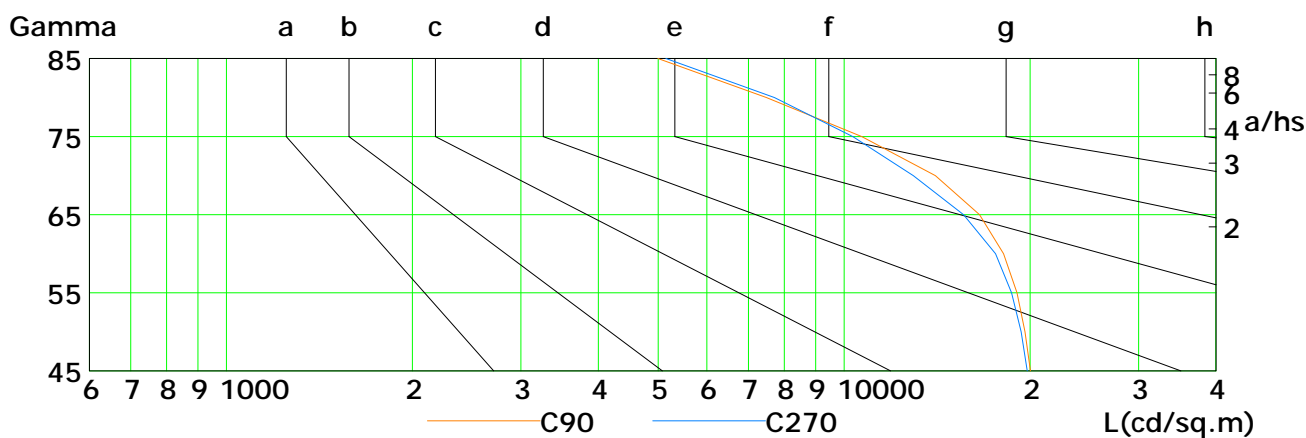
Humidity: 60%

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	15941	15140	14188	13067	11588	6934	3153	1649	1044
C90	20041	19640	19046	18121	16577	14063	10679	7485	4994
C180	14946	13985	12809	11258	7371	3045	1620	1118	782
C270	19796	19353	18679	17584	15614	12952	10338	7711	5145

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

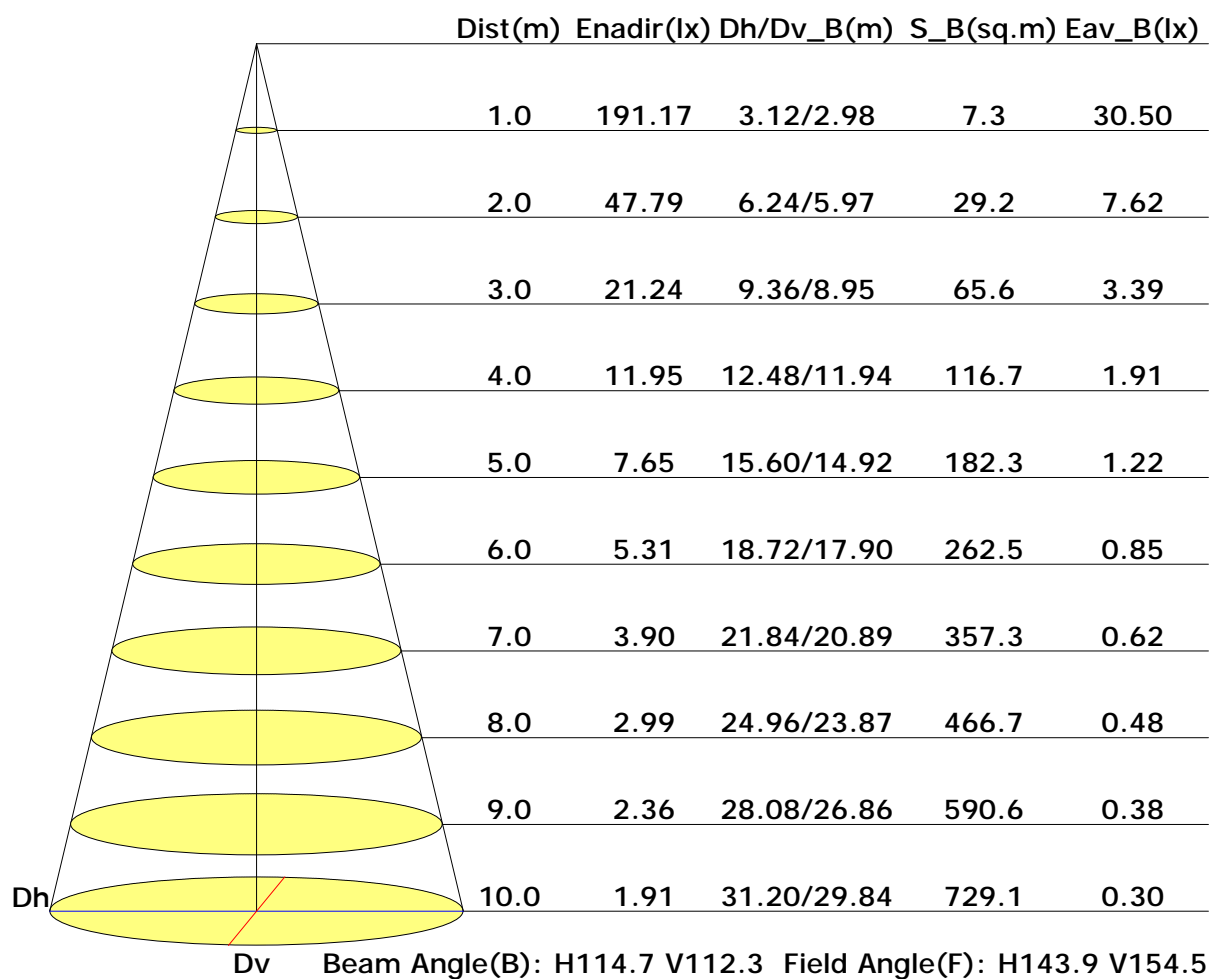
Test Device: GPM-1800B

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

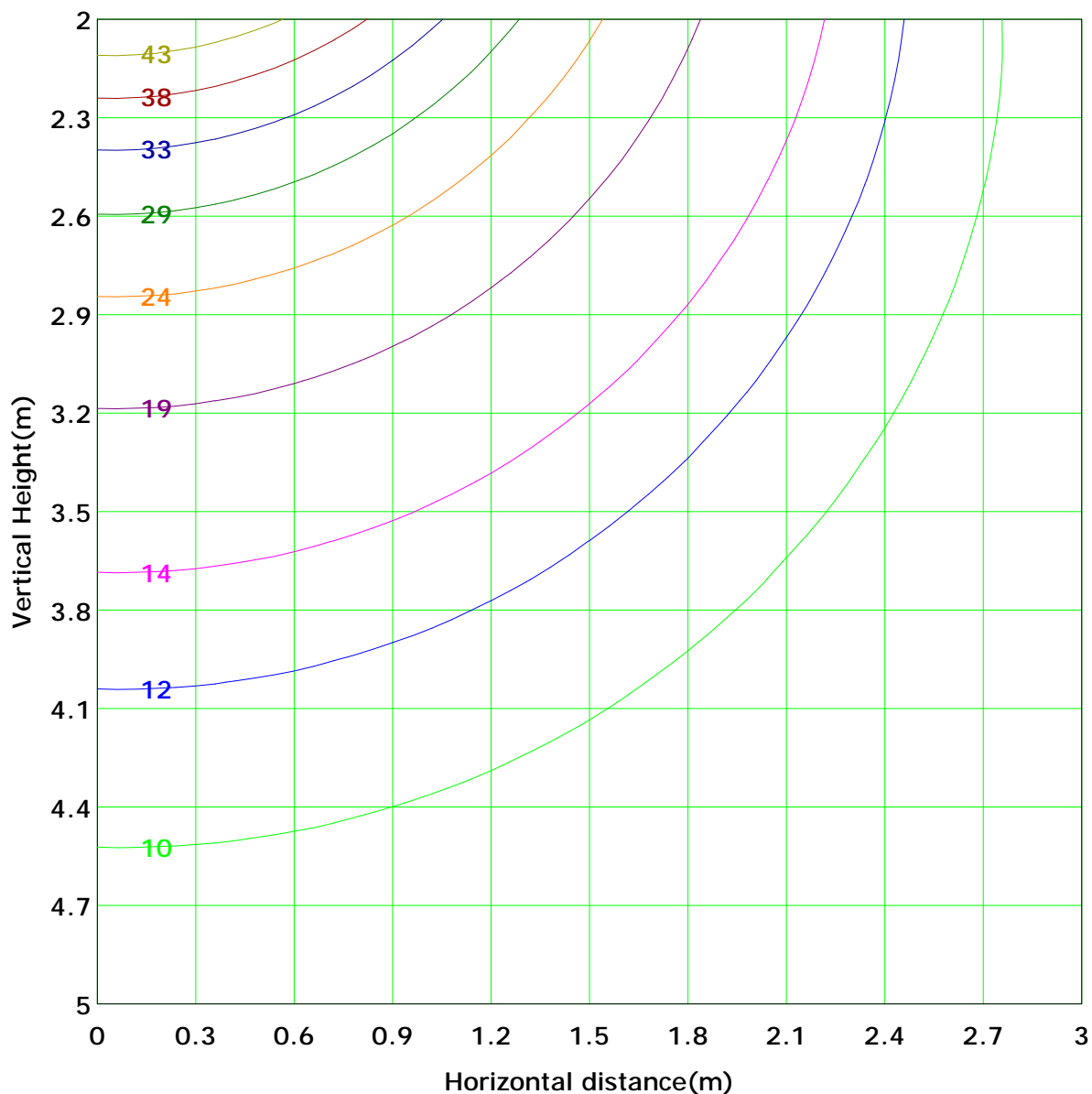
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 47.8 lx
(10%): 4.8 lx	(20%): 9.6 lx	
(25%): 11.9 lx	(30%): 14.3 lx	
(40%): 19.1 lx	(50%): 23.9 lx	
(60%): 28.7 lx	(70%): 33.5 lx	
(80%): 38.2 lx	(90%): 43.0 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	0.0	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	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.0
	-70	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.0	4.0
	-60	0.0	0.0	0.2	0.4	0.4	0.8	1.1	1.2	1.6	1.7	1.7	1.6	1.3	0.8	0.4	0.1	0.0	0.0	0.0	15.2	14.4
	-50	0.0	0.0	0.4	1.1	1.7	1.7	2.1	2.4	2.6	2.7	2.7	2.6	2.2	1.8	1.1	0.4	0.0	0.0	0.0	26.8	26.0
	-40	0.0	0.1	0.9	1.8	2.4	3.6	2.9	3.3	3.6	3.7	3.7	3.6	3.0	2.5	1.8	0.9	0.3	0.1	0.1	38.3	37.6
	-30	0.0	0.1	1.3	2.3	3.1	4.4	3.7	4.1	4.4	4.6	4.6	4.4	3.7	3.1	2.4	1.4	0.4	0.1	0.1	48.4	47.8
	-20	0.0	0.1	1.6	2.7	3.5	5.1	4.2	4.7	5.1	5.3	5.3	5.1	4.3	3.6	2.8	1.7	0.6	0.1	0.1	56.2	55.6
	-10	0.0	0.1	1.8	2.9	3.8	5.5	4.5	5.1	5.5	5.7	5.7	5.5	4.6	3.9	3.0	1.9	0.8	0.1	0.1	60.6	60.0
	0	0.0	0.1	1.8	2.9	3.8	5.5	4.6	5.1	5.5	5.7	5.7	5.5	4.6	3.9	3.0	1.9	0.8	0.1	0.1	61.1	60.5
	10	0.0	0.1	1.7	2.7	3.6	5.3	4.3	4.8	5.2	5.4	5.4	5.2	4.3	3.7	2.8	1.8	0.7	0.1	0.1	57.5	56.9
	20	0.0	0.1	1.6	2.6	3.5	5.1	4.2	4.7	5.1	5.3	5.3	5.1	4.3	3.6	2.5	1.5	0.5	0.1	0.1	50.3	49.7
	30	0.0	0.1	1.5	2.4	3.3	5.0	4.1	4.6	5.0	5.2	5.2	5.0	4.2	3.5	2.0	1.1	0.4	0.1	0.1	40.4	39.8
	40	0.0	0.1	1.4	2.3	3.2	4.9	4.0	4.5	4.9	5.1	5.1	4.9	4.1	3.4	1.4	0.7	0.3	0.1	0.1	29.2	28.5
	50	0.0	0.1	1.3	2.2	3.1	4.8	3.9	4.4	4.8	5.0	5.0	4.8	4.0	3.3	1.4	0.7	0.3	0.1	0.1	17.9	17.2
	60	0.0	0.1	1.2	2.1	3.0	4.7	3.8	4.3	4.7	4.9	4.9	4.7	3.9	3.2	1.4	0.7	0.3	0.1	0.1	7.7	7.0
	70	0.0	0.1	1.1	2.0	2.9	4.6	3.7	4.2	4.6	4.8	4.8	4.6	3.8	3.1	1.4	0.7	0.3	0.1	0.1	1.5	0.5
	80	0.0	0.1	1.0	1.9	2.8	4.5	3.6	4.1	4.5	4.7	4.7	4.5	3.7	3.0	1.4	0.7	0.3	0.1	0.1	0.2	0.0
	90	0.0	0.1	0.9	1.8	2.7	4.4	3.5	4.0	4.4	4.6	4.6	4.4	3.6	2.9	1.4	0.7	0.3	0.1	0.1	0.2	0.0
	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	517	505

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

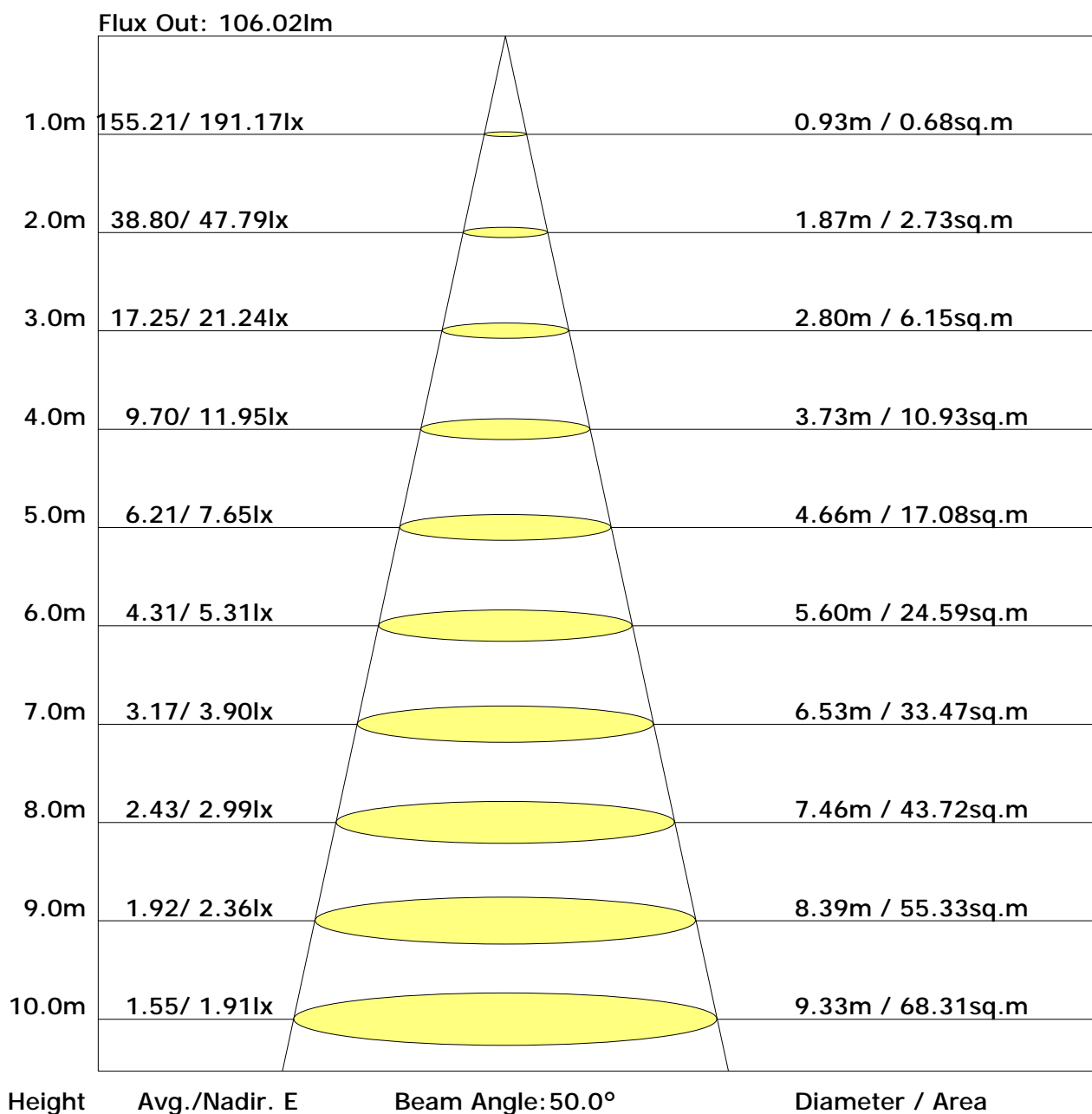
Test Device: GPM-1800B

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	24.7	26.3	25.1	26.7	27.0	23.5	25.1	23.9	25.4	25.7
3H	26.1	27.5	26.5	27.8	28.2	24.7	26.1	25.1	26.4	26.8
4H	26.2	27.5	26.6	27.9	28.3	24.9	26.2	25.3	26.6	27.0
6H	26.2	27.4	26.6	27.8	28.2	25.0	26.2	25.4	26.6	27.0
8H	26.2	27.4	26.6	27.8	28.2	25.0	26.2	25.4	26.6	27.0
12H	26.2	27.3	26.7	27.7	28.2	25.0	26.1	25.4	26.5	27.0
X=4H Y=2H	25.1	26.5	25.6	26.8	27.2	24.1	25.4	24.5	25.8	26.1
3H	26.5	27.6	26.9	28.0	28.4	25.3	26.4	25.8	26.8	27.3
4H	26.6	27.6	27.1	28.1	28.5	25.6	26.6	26.0	27.0	27.5
6H	26.7	27.6	27.2	28.0	28.5	25.7	26.6	26.2	27.0	27.5
8H	26.7	27.5	27.2	28.0	28.5	25.7	26.5	26.2	27.0	27.5
12H	26.7	27.4	27.2	27.9	28.4	25.7	26.4	26.2	26.9	27.4
X=8H Y=4H	26.7	27.5	27.1	27.9	28.4	25.6	26.4	26.1	26.9	27.4
6H	26.7	27.4	27.2	27.9	28.4	25.7	26.4	26.3	26.9	27.4
8H	26.7	27.3	27.3	27.8	28.4	25.8	26.3	26.3	26.9	27.4
12H	26.8	27.3	27.3	27.8	28.4	25.8	26.3	26.3	26.8	27.4
X=12H Y=4H	26.6	27.4	27.1	27.9	28.3	25.6	26.3	26.1	26.8	27.3
6H	26.7	27.3	27.2	27.8	28.3	25.7	26.3	26.3	26.8	27.4
8H	26.7	27.2	27.3	27.8	28.3	25.8	26.3	26.3	26.8	27.4

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	0.69	0.76	0.82	0.89	0.94	0.97	1.02	1.05
	0.30		0.50	0.61	0.69	0.75	0.83	0.89	0.93	0.98	1.01
	0.20		0.45	0.56	0.64	0.70	0.79	0.85	0.89	0.95	0.98
0.50	0.50	0.20	0.56	0.67	0.74	0.79	0.86	0.91	0.94	0.98	1.00
	0.30		0.49	0.60	0.68	0.73	0.81	0.86	0.90	0.95	0.97
	0.20		0.44	0.55	0.63	0.69	0.77	0.82	0.86	0.92	0.95
0.30	0.50	0.20	0.55	0.65	0.72	0.76	0.83	0.87	0.90	0.94	0.96
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.87	0.91	0.94
	0.20		0.44	0.54	0.62	0.68	0.75	0.80	0.84	0.89	0.92
0.00	0.00	0.00	0.42	0.52	0.59	0.65	0.72	0.77	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	0.79	0.67	0.58	0.45	0.37	0.32	0.24	0.20	
	0.30		0.81	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.59	0.52	0.46	0.37	0.32	0.27	0.22	0.18	
0.50	0.50	0.20	0.94	0.76	0.64	0.55	0.43	0.39	0.30	0.23	0.19	
	0.30		0.80	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.58	0.51	0.45	0.36	0.31	0.26	0.21	0.17	
0.30	0.50	0.20	0.91	0.73	0.61	0.53	0.41	0.34	0.29	0.22	0.18	
	0.30		0.78	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.68	0.57	0.50	0.44	0.35	0.30	0.25	0.20	0.16	
0.00	0.00	0.00	0.58	0.47	0.40	0.35	0.28	0.23	0.19	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		0.06	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											