

Report No.:

Test Time: 2018/8/21 11:45

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: RBHIAC65120430

Luminous Width (mm): 15

Voltage: 119.6 V

Power: 8.06 W

Photometric Results

CIE Class: Direct

Measurement Flux: 572.2 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H115.1

Vertical Diffuse Angle(50%): V112

Luminaire Efficacy Rating (LER): 71

Max. Intensity: 208.2 cd

Total Rated Lamp Lumens: 572.2 lm

Efficiency: 100%

Upward Ratio: 1%

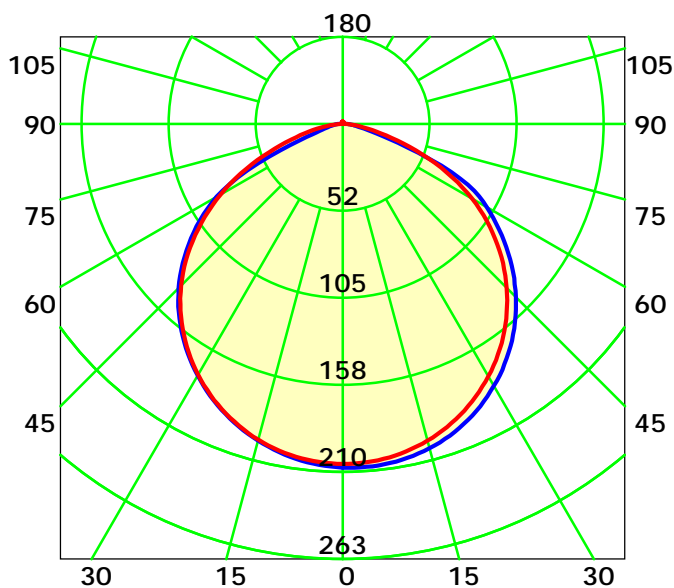
Central Intensity: 208.05 cd

Pos of Max. Intensity: H0 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 113.6° 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

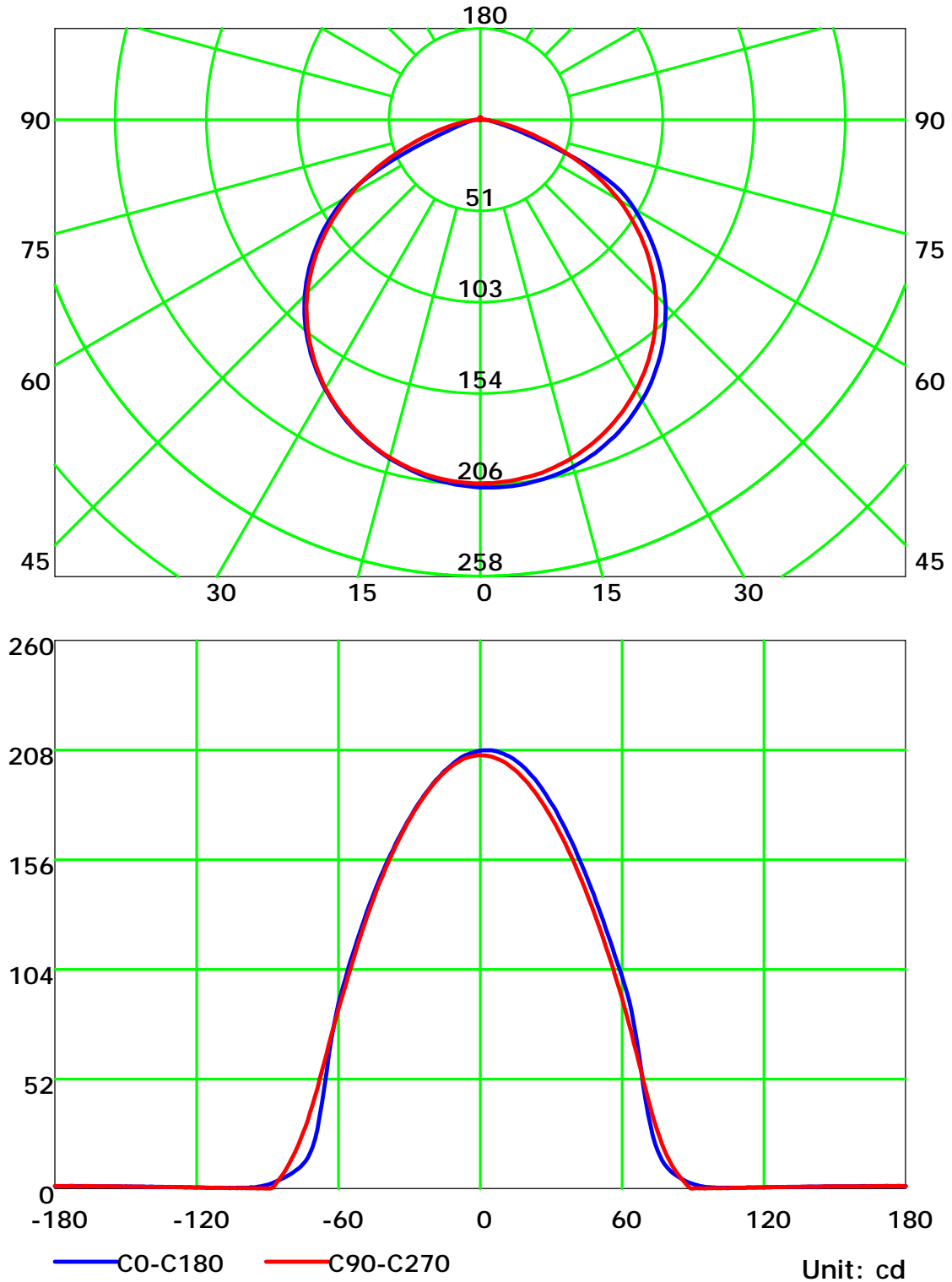
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

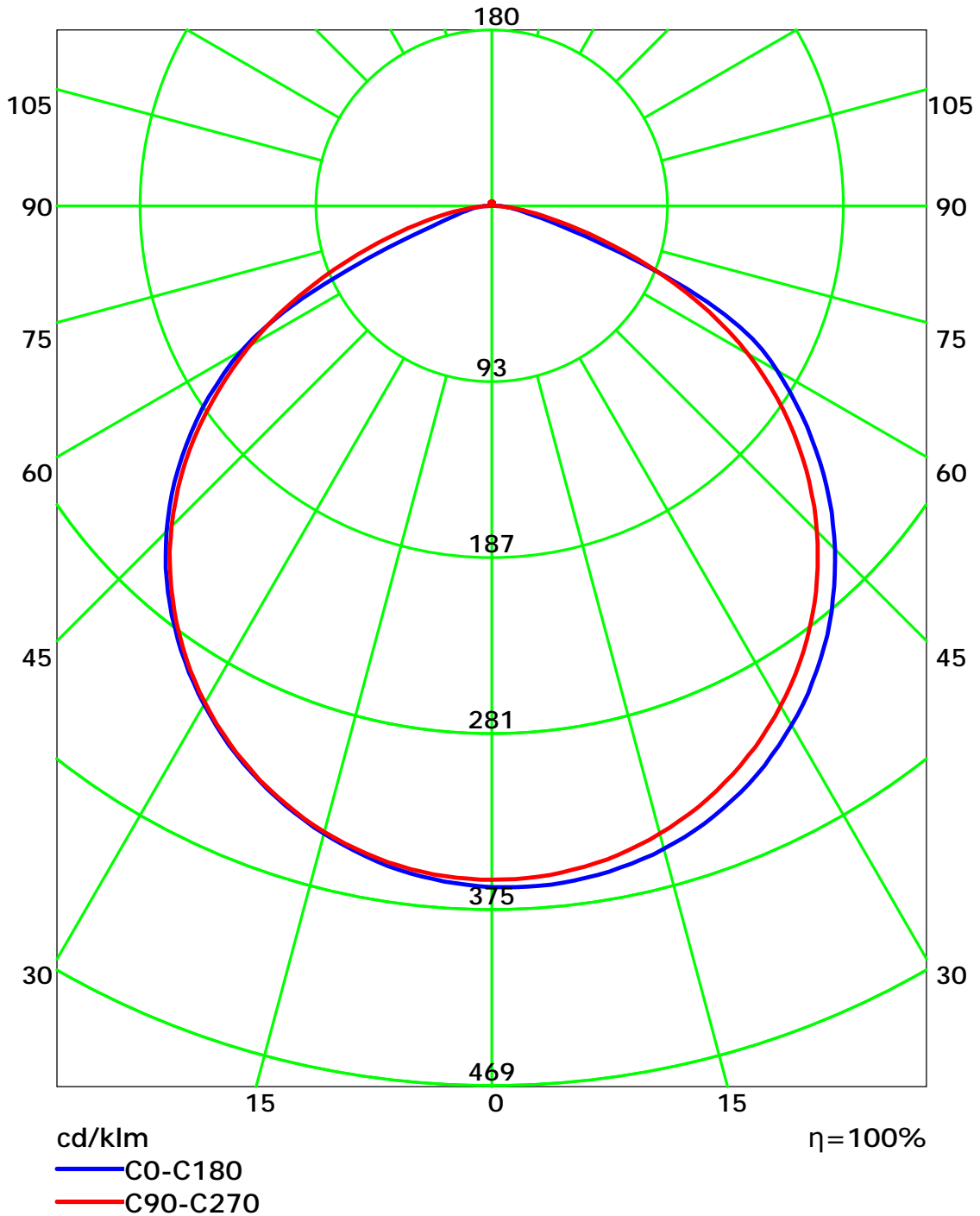
Luminous Intensity Distribution Curve



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:

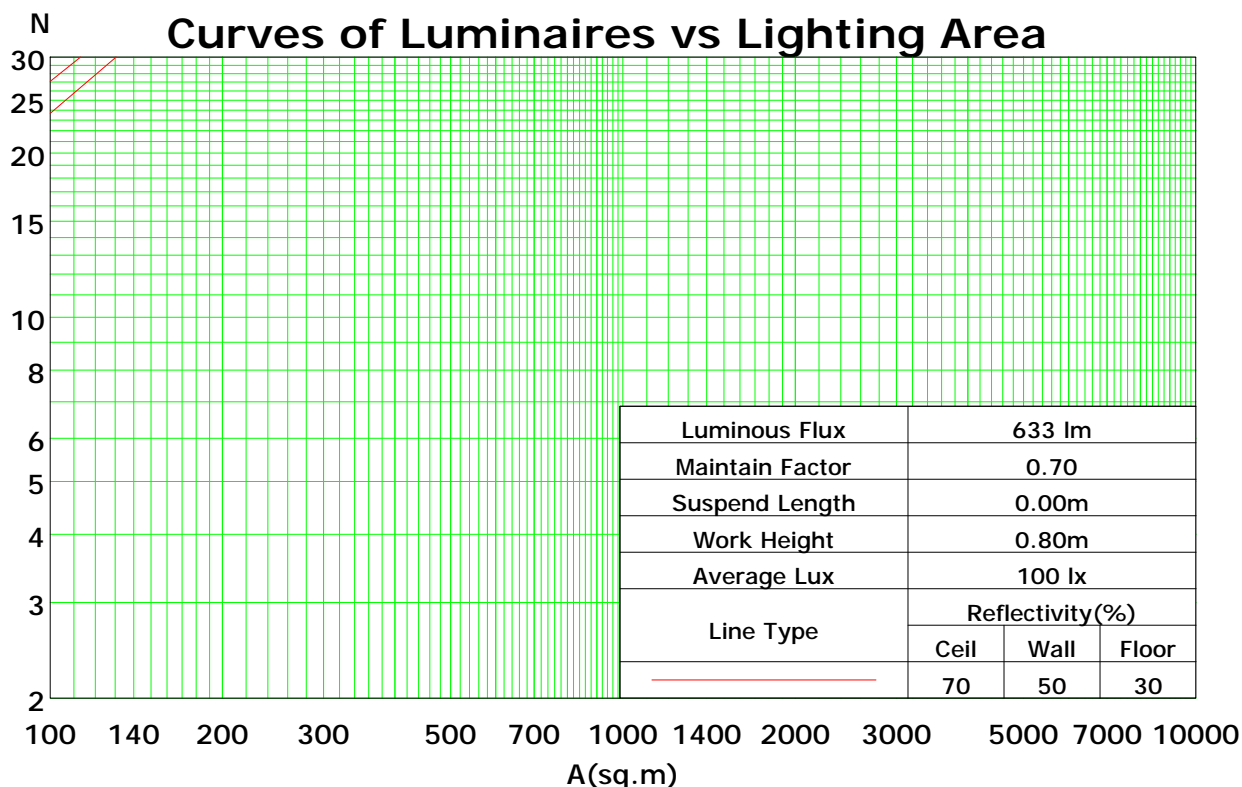
Coefficients Of Utilization - Zonal Cavity Method

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	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	75	80	77	74	71
3	91	81	73	67	89	80	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	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	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.39



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

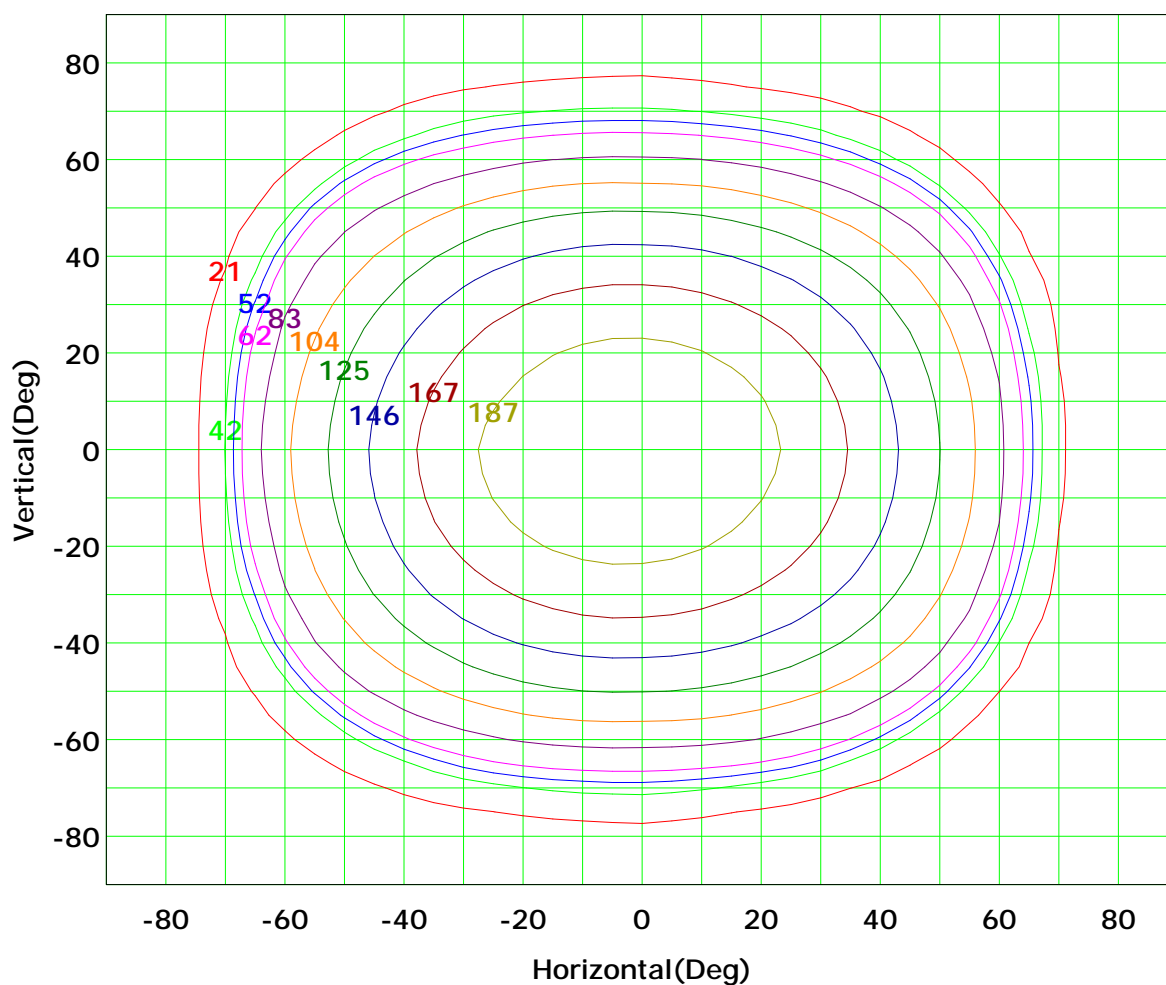
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 208 cd

(10%):	21 cd	(20%):	42 cd
(25%):	52 cd	(30%):	62 cd
(40%):	83 cd	(50%):	104 cd
(60%):	125 cd	(70%):	146 cd
(80%):	167 cd	(90%):	187 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

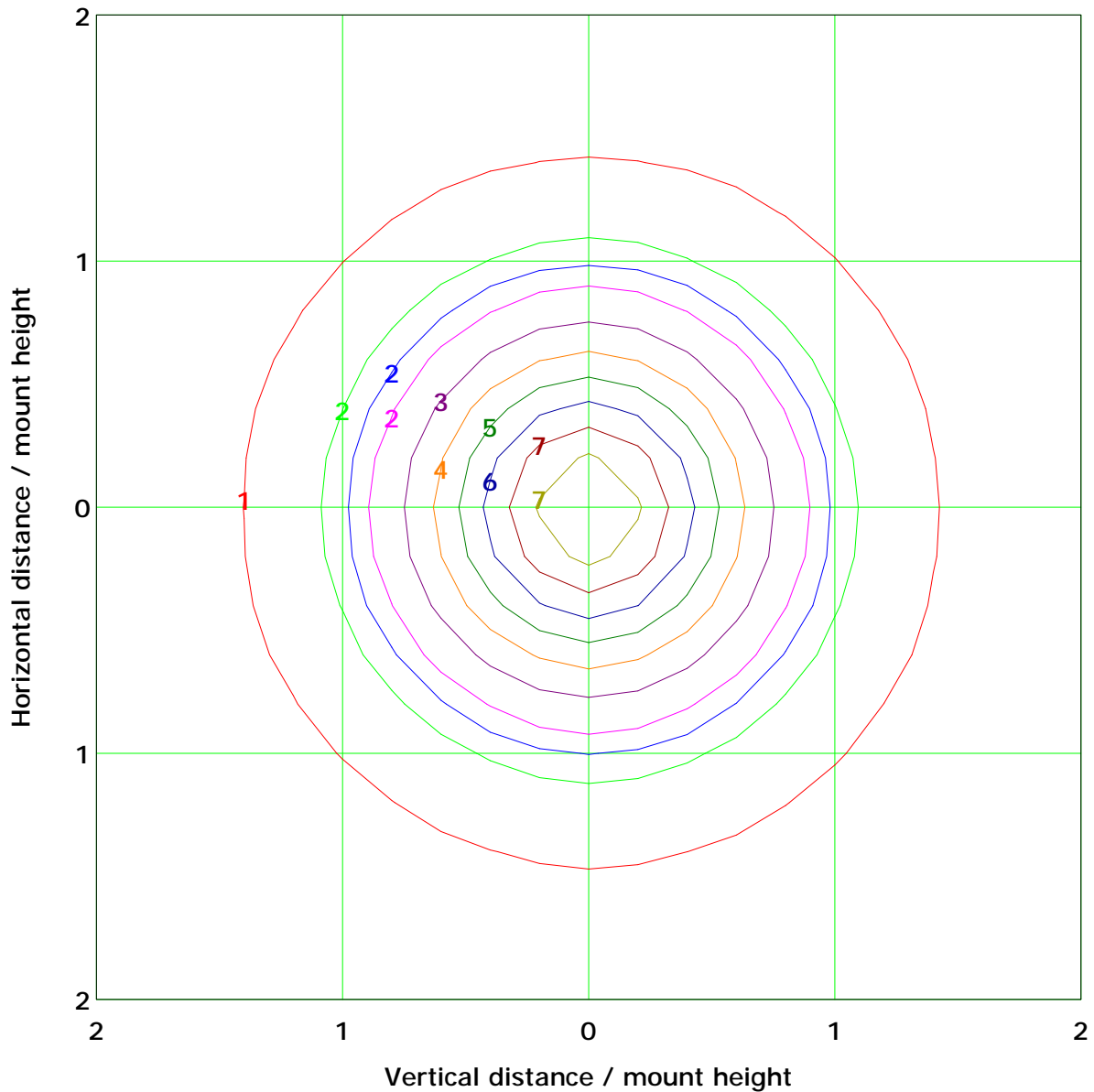
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 8.3 lx

(10%): 0.8 lx	(20%): 1.7 lx
(25%): 2.1 lx	(30%): 2.5 lx
(40%): 3.3 lx	(50%): 4.2 lx
(60%): 5.0 lx	(70%): 5.8 lx
(80%): 6.7 lx	(90%): 7.5 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

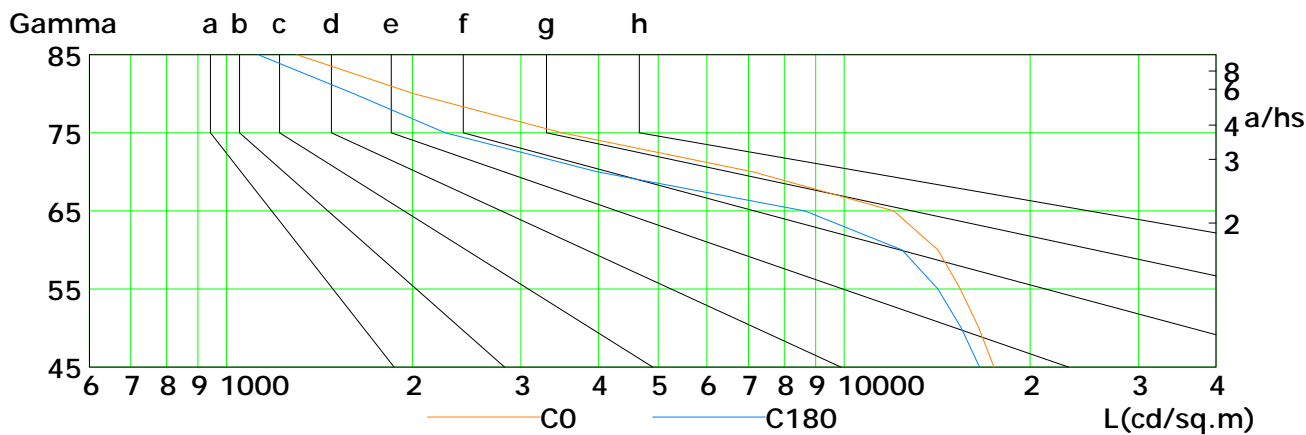
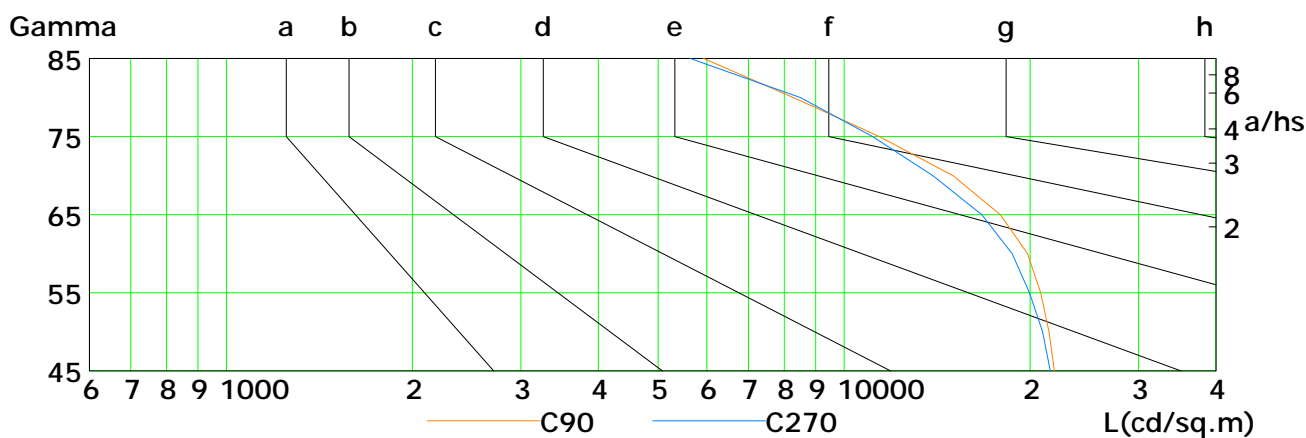
Humidity: 60%

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	17488	16532	15434	14190	12038	7125	3491	2012	1301
C90	21898	21474	20823	19810	17910	15003	11408	8279	5925
C180	16564	15478	14184	12417	8636	3990	2261	1609	1126
C270	21574	20960	19973	18712	16714	13930	11125	8499	5634

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

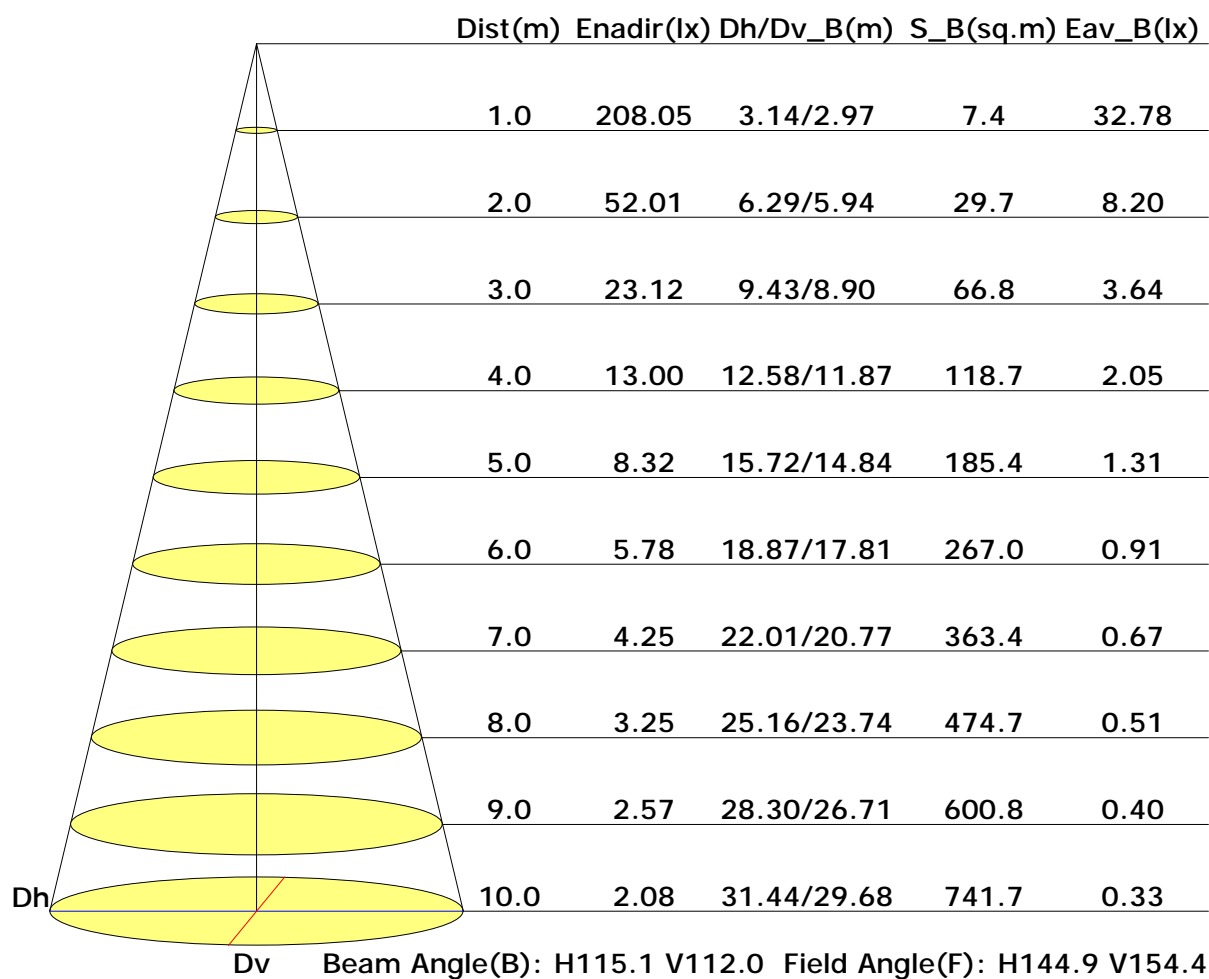
Test Device: GPM-1800B

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

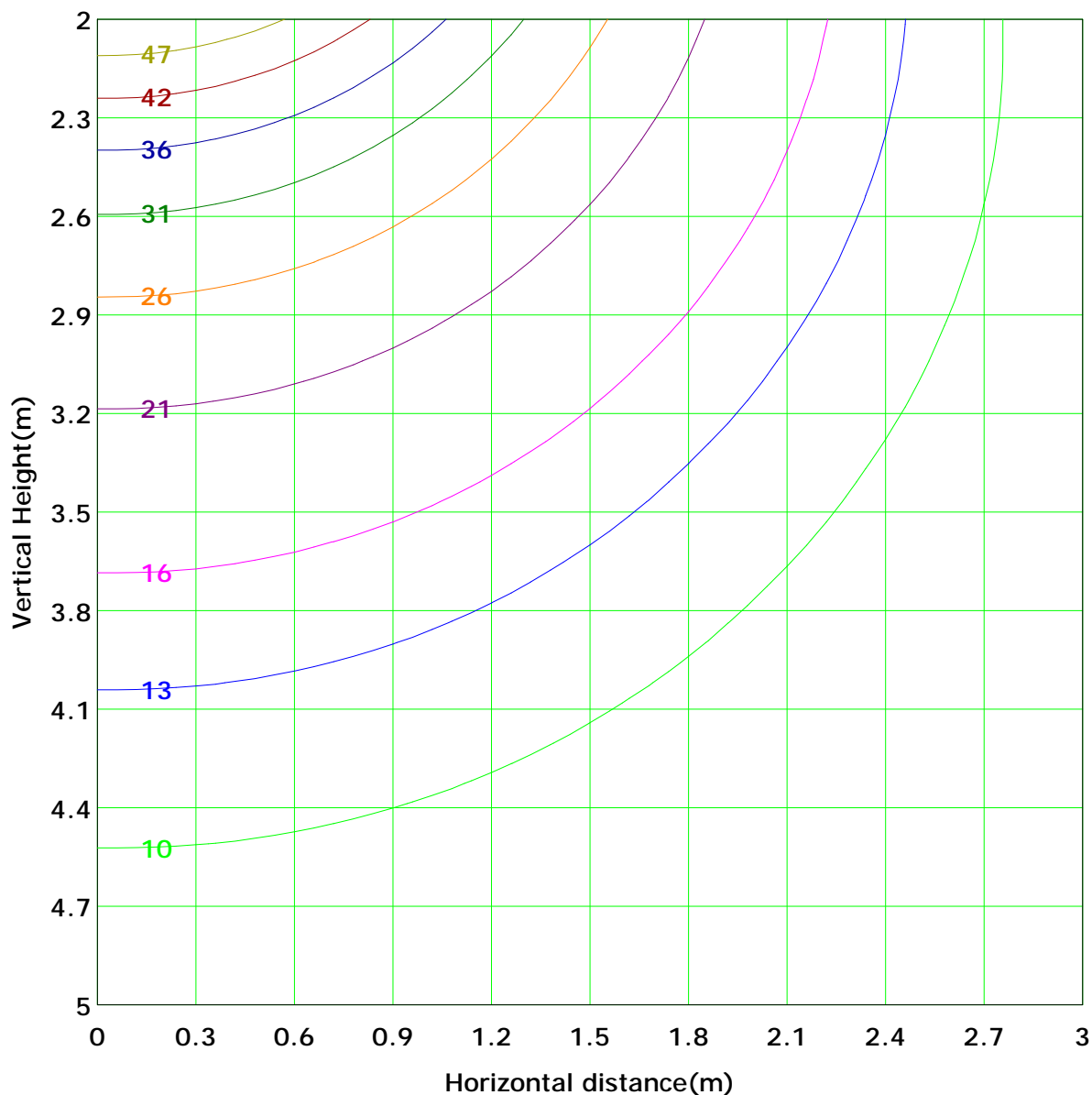
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 52.0 lx
(10%): 5.2 lx	(20%): 10.4 lx	
(25%): 13.0 lx	(30%): 15.6 lx	
(40%): 20.8 lx	(50%): 26.0 lx	
(60%): 31.2 lx	(70%): 36.4 lx	
(80%): 41.6 lx	(90%): 46.8 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:

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	0.1	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	0.1	0.2	0.0	0.0
	-80	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.8	0.8	0.7	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
	-70	0.0	0.0	0.1	0.2	0.5	1.0	1.4	1.7	1.9	2.0	1.8	1.6	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0
	-60	0.0	0.1	0.2	0.5	1.2	1.9	2.7	3.4	3.9	4.2	3.9	3.5	2.6	2.1	1.4	0.7	0.3	0.1	0.0	0.0	0.0
	-50	0.0	0.1	0.2	0.9	1.9	2.7	3.2	4.0	4.6	4.9	4.2	3.5	2.8	2.0	1.2	0.7	0.3	0.1	0.0	0.0	0.0
	-40	0.0	0.1	0.4	1.4	2.3	3.2	4.0	4.6	4.9	5.0	4.7	4.1	3.3	2.4	1.5	0.7	0.3	0.1	0.0	0.0	0.0
	-30	0.0	0.1	0.6	1.6	2.7	3.7	4.5	5.2	5.5	5.6	5.3	4.6	3.8	2.8	1.8	0.8	0.1	0.0	0.0	0.0	0.0
	-20	0.0	0.1	0.7	1.8	2.9	3.9	4.9	5.6	5.9	6.0	5.6	5.0	4.1	3.0	1.9	0.8	0.2	0.0	0.0	0.0	0.0
	-10	0.0	0.1	0.7	1.9	3.0	4.1	5.1	5.8	6.2	6.2	5.9	5.2	4.3	3.2	2.0	1.0	0.2	0.0	0.0	0.0	0.0
	0	0.0	0.1	0.7	1.9	3.0	4.1	5.1	5.8	6.2	6.2	5.9	5.2	4.3	3.2	2.0	1.0	0.2	0.0	0.0	0.0	0.0
	10	0.0	0.1	0.7	1.8	2.9	4.0	4.9	5.6	6.0	6.0	5.7	5.1	4.1	3.1	2.0	0.9	0.2	0.0	0.0	0.0	0.0
	20	0.0	0.1	0.6	1.6	2.7	3.7	4.5	5.2	5.6	5.6	5.3	4.7	3.8	2.8	1.8	0.8	0.1	0.0	0.0	0.0	0.0
	30	0.0	0.1	0.4	1.4	2.4	3.3	4.1	4.7	5.0	5.0	4.8	4.2	3.4	2.5	1.6	0.6	0.1	0.0	0.0	0.0	0.0
	40	0.0	0.1	0.2	0.9	1.9	2.7	3.4	3.9	4.2	4.3	4.0	3.5	2.9	2.1	1.2	0.4	0.1	0.0	0.0	0.0	0.0
	50	0.0	0.1	0.2	0.5	1.2	2.0	2.6	3.0	3.3	3.3	3.1	2.7	2.2	1.5	0.7	0.2	0.1	0.0	0.0	0.0	0.0
	60	0.0	0.0	0.1	0.2	0.5	1.0	1.5	1.9	2.1	2.1	2.0	1.7	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0
	70	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.8	0.8	0.8	0.6	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	80	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	90	0.2	1.2	5.9	16.9	29.6	42.1	53.1	61.3	66.0	66.5	62.8	55.2	44.5	32.0	19.5	8.3	1.7	0.2	567		554

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

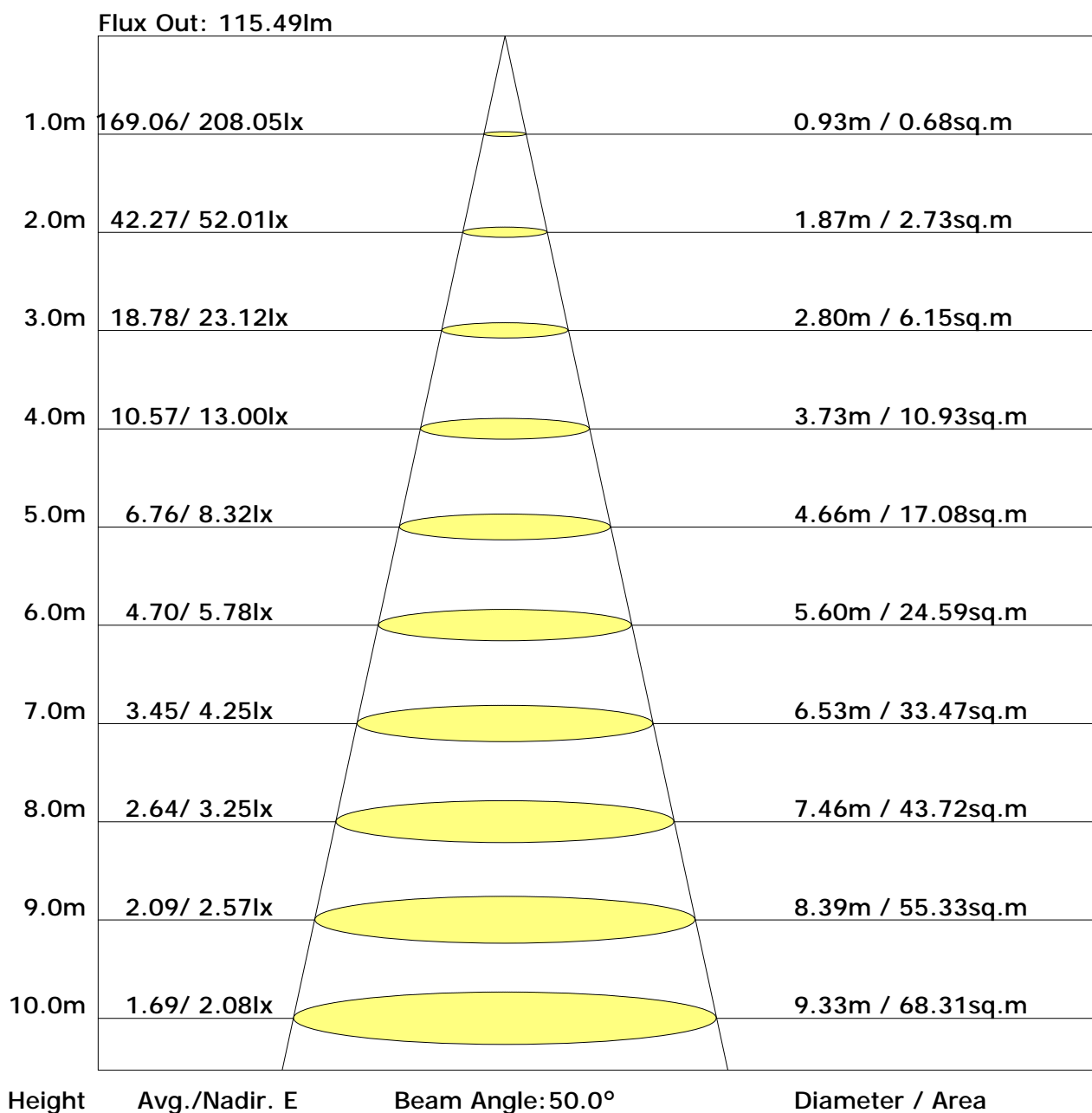
Test Device: GPM-1800B

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	26.6	27.0	23.5	25.1	23.9	25.4	25.7
3H	25.9	27.3	26.3	27.7	28.1	24.6	26.0	25.0	26.4	26.8
4H	26.1	27.4	26.5	27.8	28.2	24.9	26.2	25.3	26.6	27.0
6H	26.1	27.3	26.5	27.7	28.1	25.0	26.2	25.4	26.6	27.0
8H	26.1	27.3	26.6	27.7	28.1	25.0	26.1	25.4	26.5	27.0
12H	26.1	27.2	26.6	27.6	28.1	24.9	26.1	25.4	26.5	26.9
X=4H Y=2H	25.1	26.4	25.5	26.8	27.2	24.0	25.4	24.5	25.7	26.1
3H	26.4	27.5	26.8	27.9	28.3	25.3	26.4	25.7	26.8	27.2
4H	26.5	27.5	27.0	28.0	28.4	25.5	26.5	26.0	27.0	27.4
6H	26.6	27.5	27.1	27.9	28.4	25.7	26.5	26.1	27.0	27.5
8H	26.6	27.4	27.1	27.9	28.4	25.7	26.5	26.2	26.9	27.4
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	26.6	27.4	27.0	27.8	28.3	25.6	26.4	26.0	26.8	27.3
6H	26.6	27.3	27.2	27.8	28.3	25.7	26.4	26.2	26.9	27.4
8H	26.7	27.3	27.2	27.8	28.3	25.7	26.3	26.3	26.8	27.4
12H	26.7	27.2	27.3	27.8	28.3	25.7	26.3	26.3	26.8	27.4
X=12H Y=4H	26.5	27.3	27.0	27.8	28.2	25.5	26.3	26.0	26.8	27.2
6H	26.6	27.2	27.2	27.7	28.3	25.7	26.3	26.2	26.8	27.3
8H	26.7	27.2	27.2	27.7	28.3	25.7	26.2	26.2	26.8	27.3

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	1.04
	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	0.78	0.84	0.89	0.94	0.98
0.50	0.50	0.20	0.56	0.67	0.74	0.79	0.86	0.90	0.93	0.98	1.00
	0.30		0.49	0.60	0.68	0.73	0.81	0.86	0.90	0.94	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	0.71	0.76	0.83	0.87	0.90	0.94	0.96
	0.30		0.48	0.59	0.66	0.72	0.79	0.83	0.87	0.91	0.94
	0.20		0.44	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92
0.00	0.00	0.00	0.42	0.52	0.59	0.64	0.72	0.76	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	0.80	0.67	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.82	0.68	0.58	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	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	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	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	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.58	0.48	0.40	0.35	0.28	0.23	0.20	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		0.05	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											