

Report No.:

Test Time: 2018/8/31 15:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2245.027PH 1FT(320mm)

Luminous Length (mm): 320

Luminous Width (mm): 10

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.225 A

Power: 5.39 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 669.3 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H116.5

Vertical Diffuse Angle(50%): V116.3

Luminaire Efficacy Rating (LER): 124

Max. Intensity: 224.23 cd

Total Rated Lamp Lumens: 669.3 lm

Efficiency: 100%

Upward Ratio: 1%

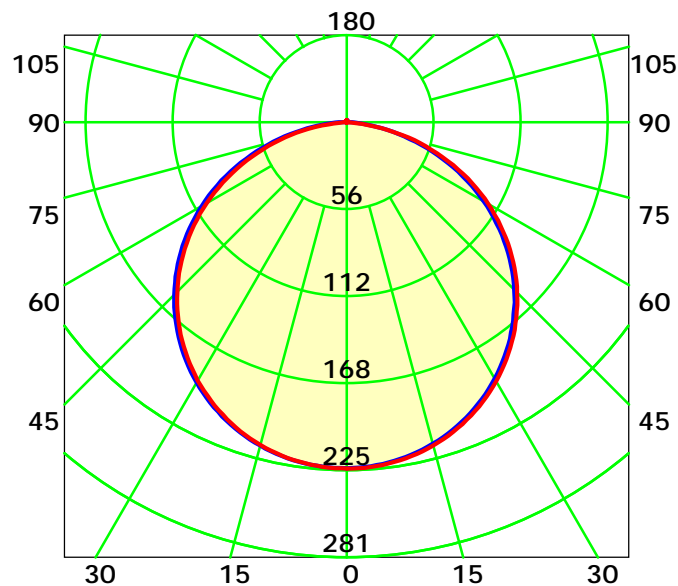
Central Intensity: 223.72 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 116.4° 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

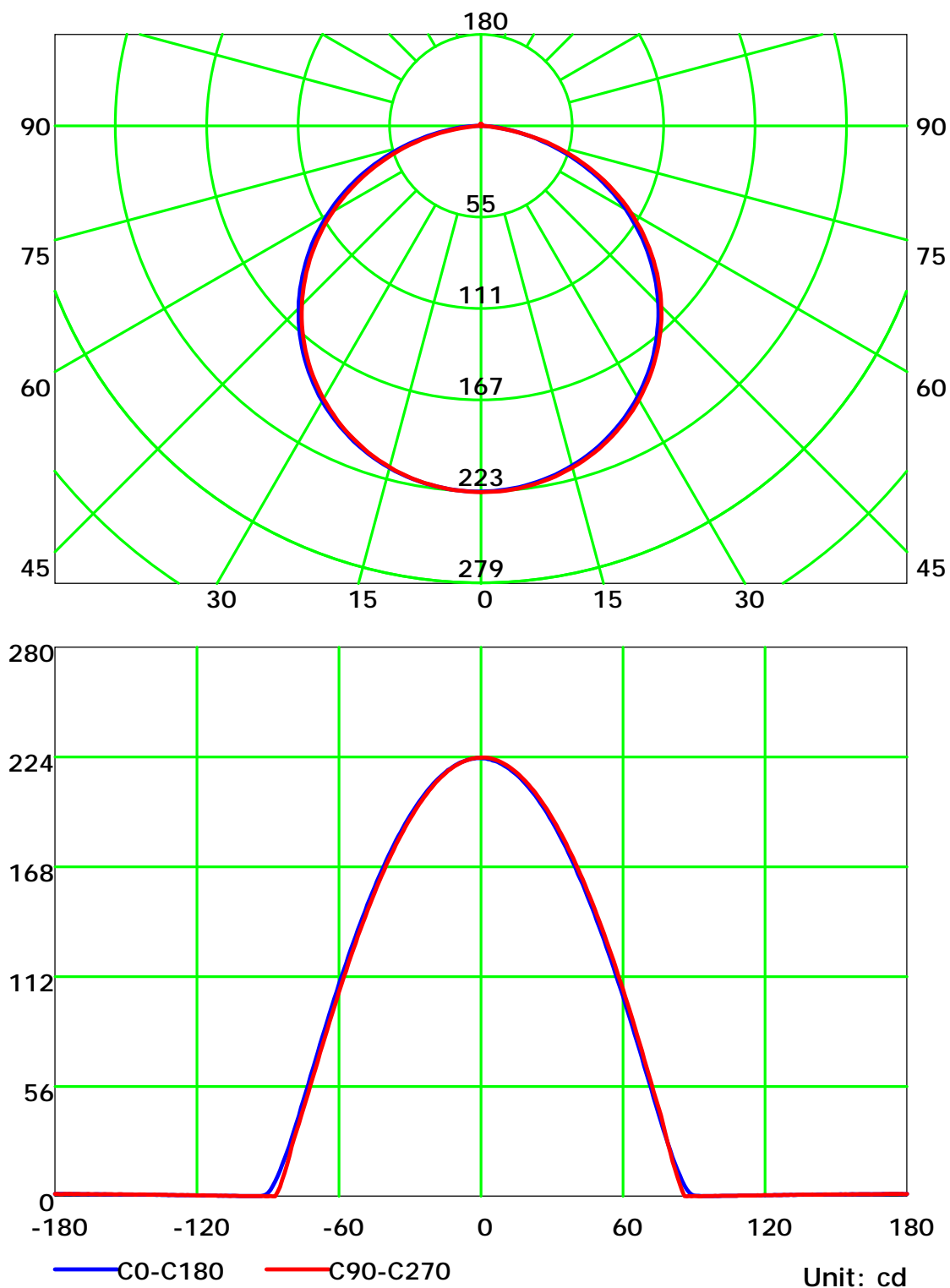
Test Device: GPM-1800B

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

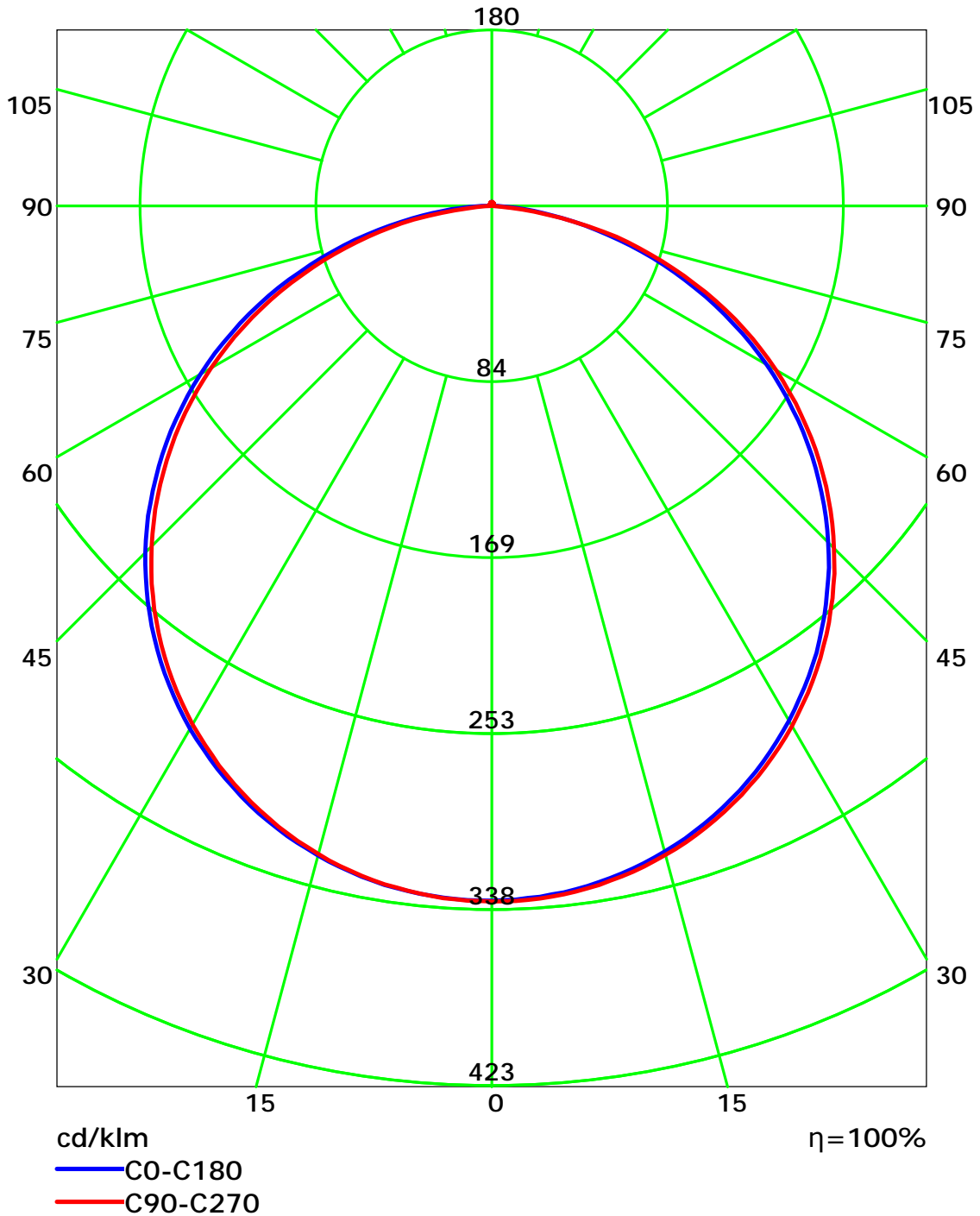
Test Device: GPM-1800B

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:

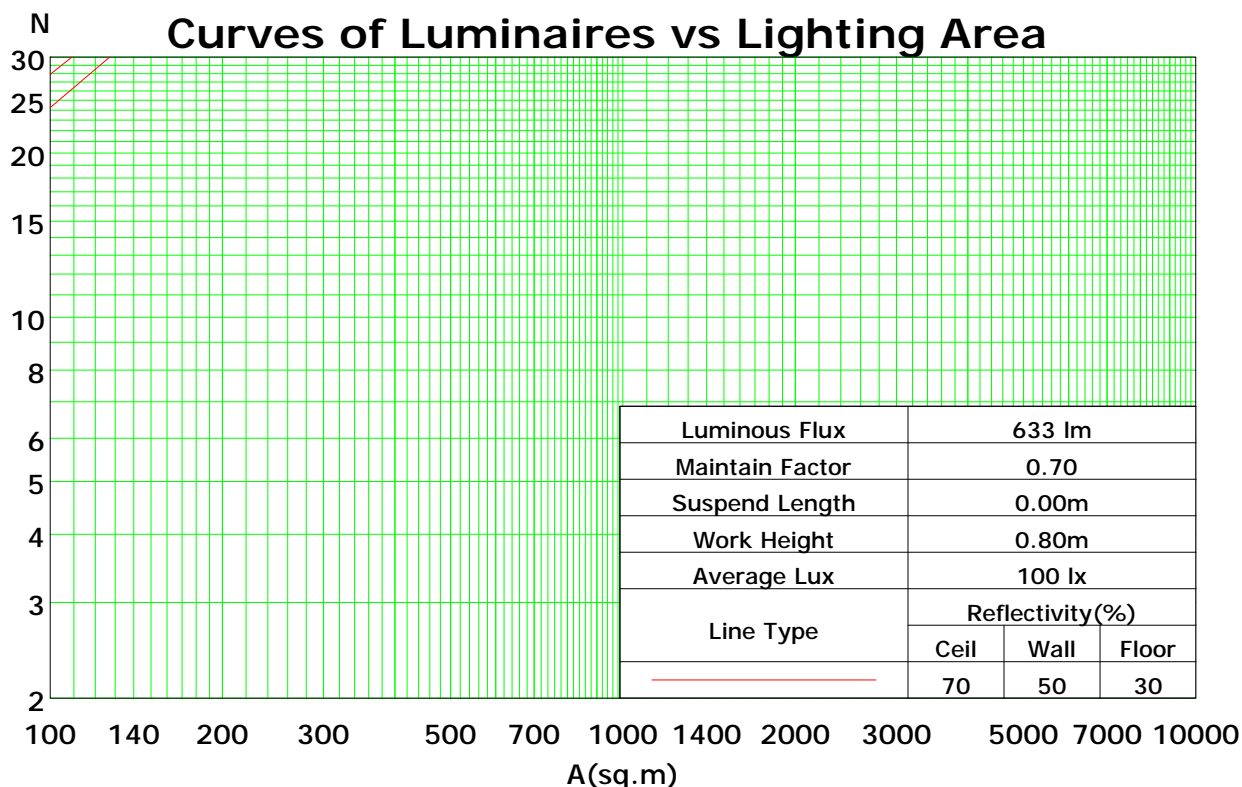
Coefficients Of Utilization - Zonal Cavity Method

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	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	58	53	63	57	52	61	56	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	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	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

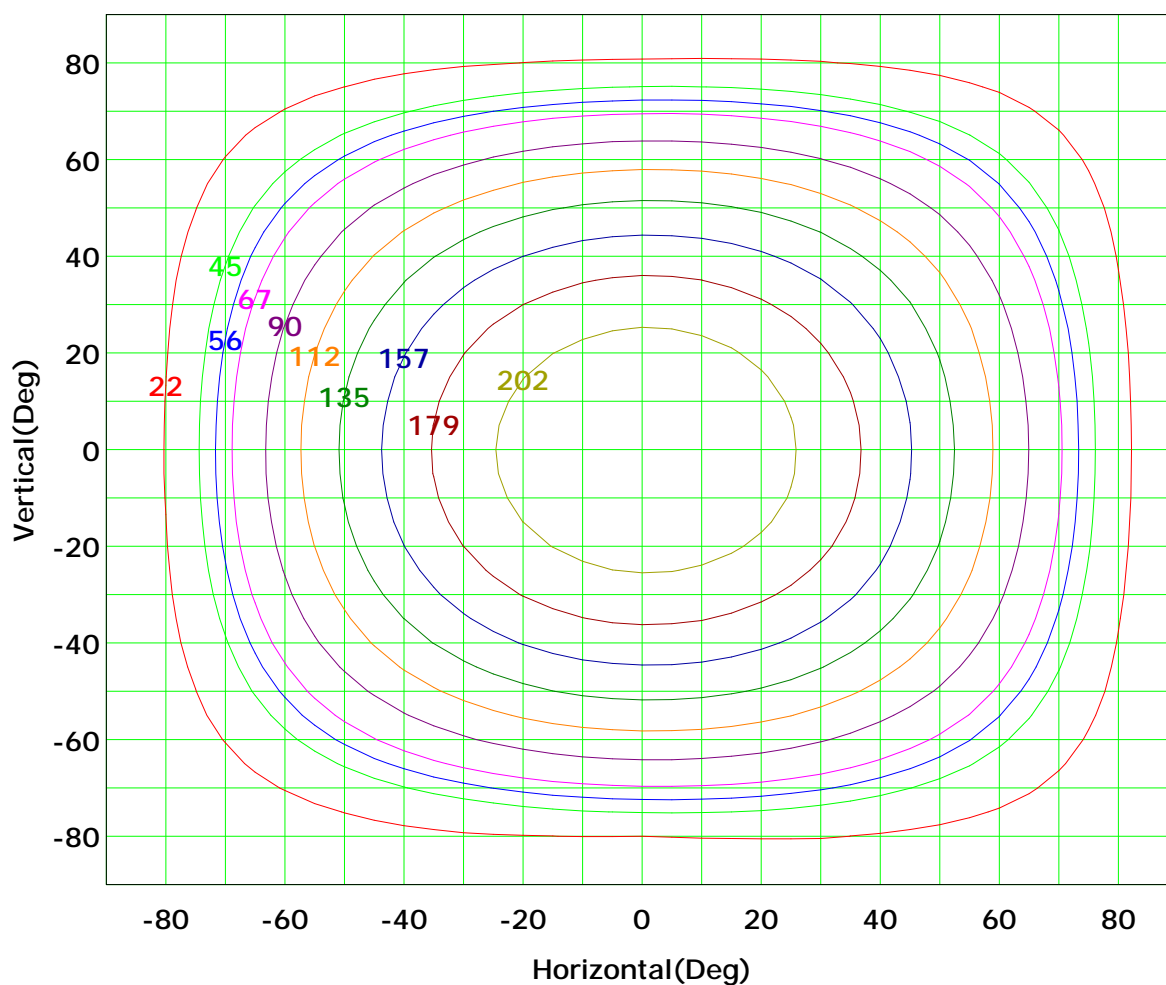
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 224 cd

(10%): 22 cd	(20%): 45 cd
(25%): 56 cd	(30%): 67 cd
(40%): 90 cd	(50%): 112 cd
(60%): 135 cd	(70%): 157 cd
(80%): 179 cd	(90%): 202 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

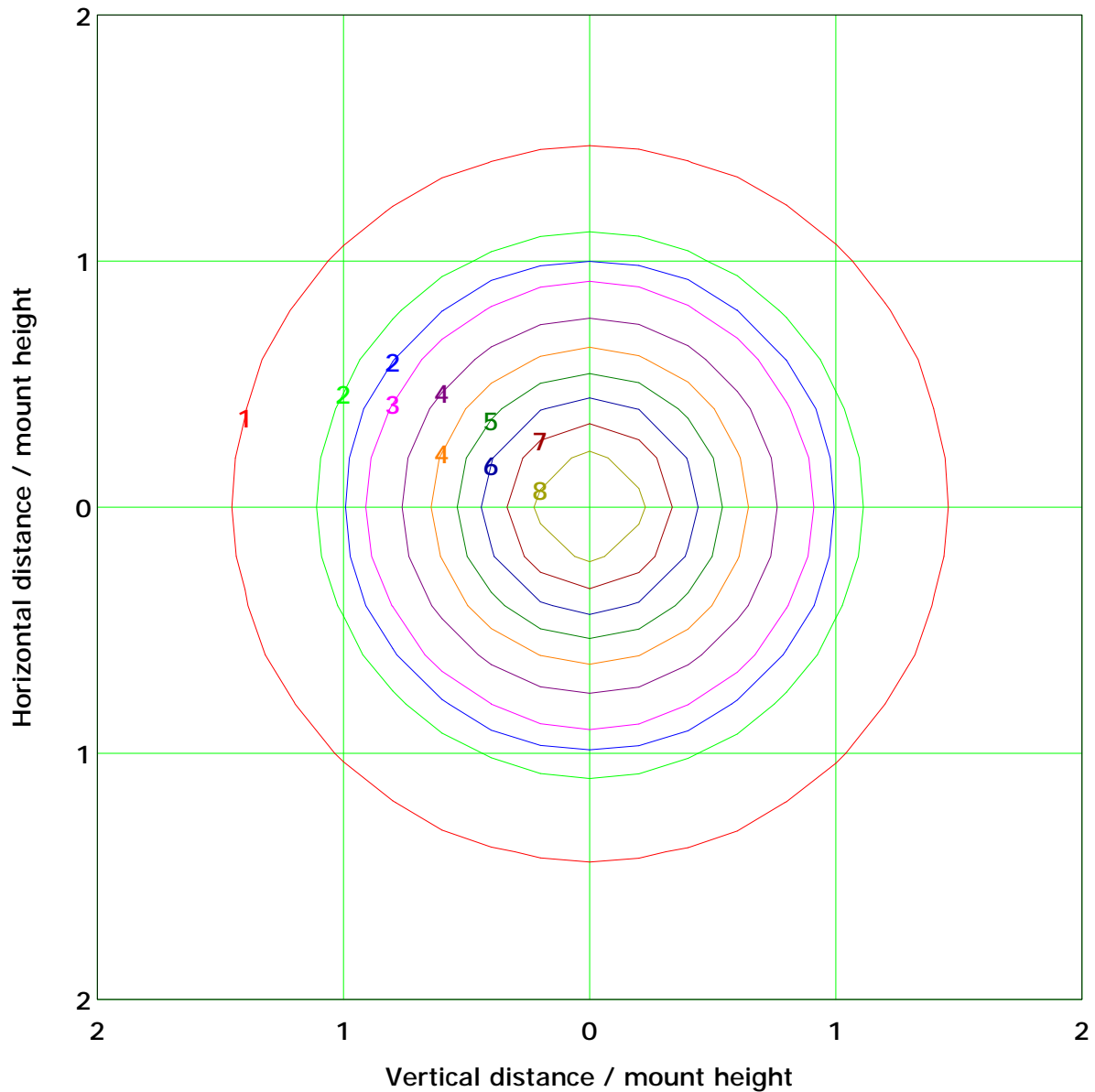
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 9.0 lx

(10%): 0.9 lx	(20%): 1.8 lx
(25%): 2.2 lx	(30%): 2.7 lx
(40%): 3.6 lx	(50%): 4.5 lx
(60%): 5.4 lx	(70%): 6.3 lx
(80%): 7.2 lx	(90%): 8.1 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

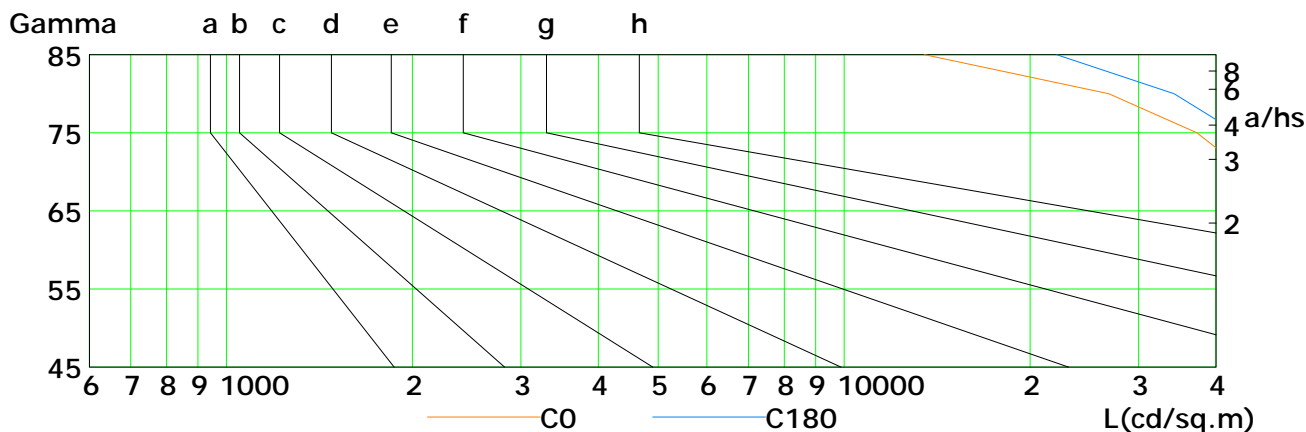
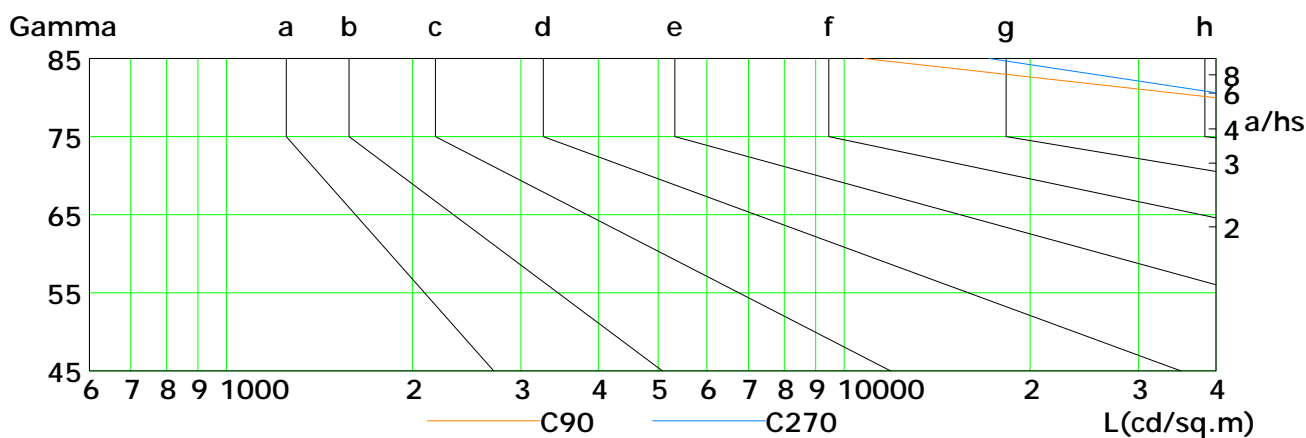
Humidity: 60%

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	61595	59751	57490	54450	50390	44884	37263	26826	13502
C90	68688	68125	67123	65701	63609	59754	54292	39786	10766
C180	63427	61984	60179	57774	54524	49872	43418	34221	22085
C270	68323	67578	66526	64942	62581	58957	53767	45091	17171

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

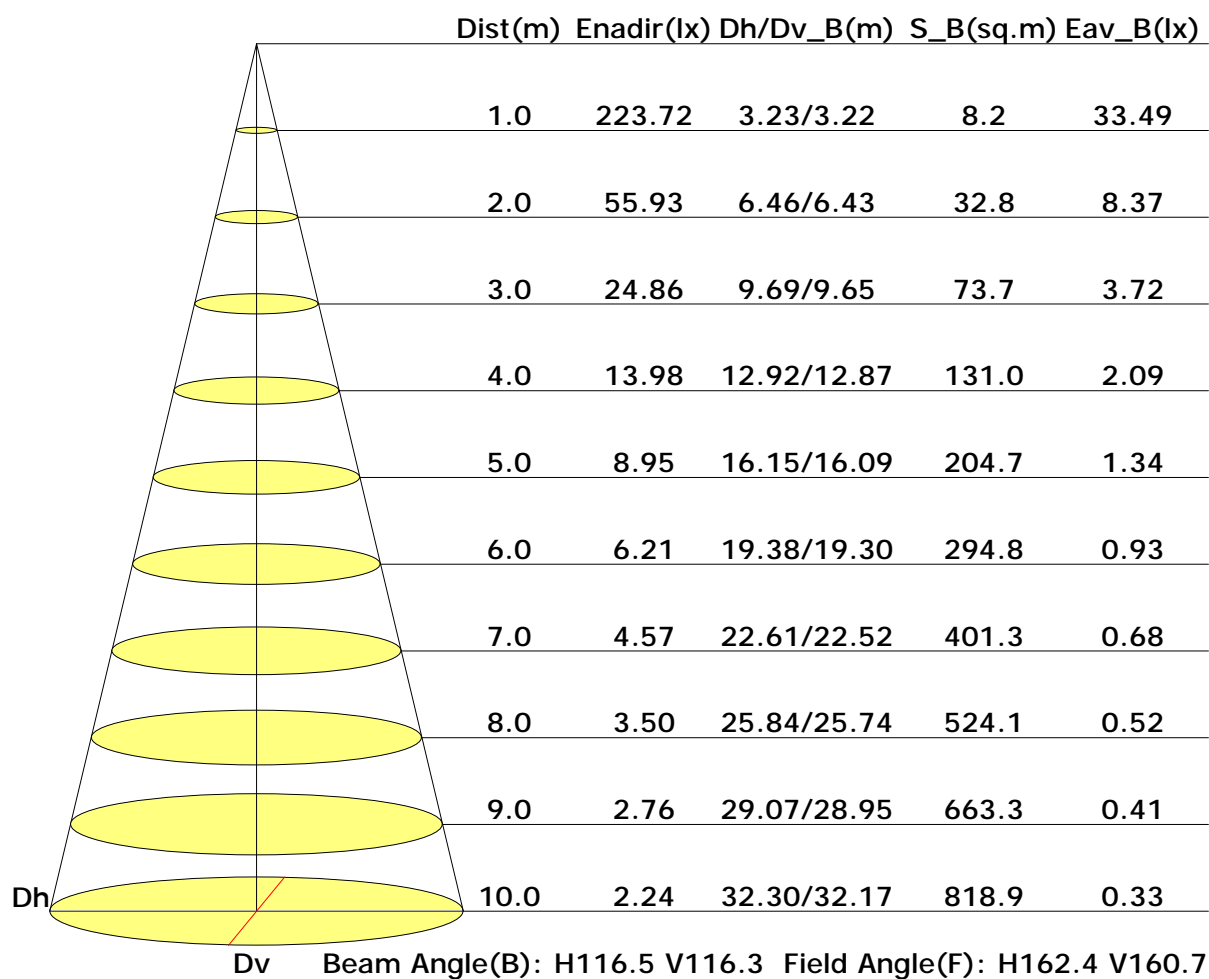
Test Device: GPM-1800B

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

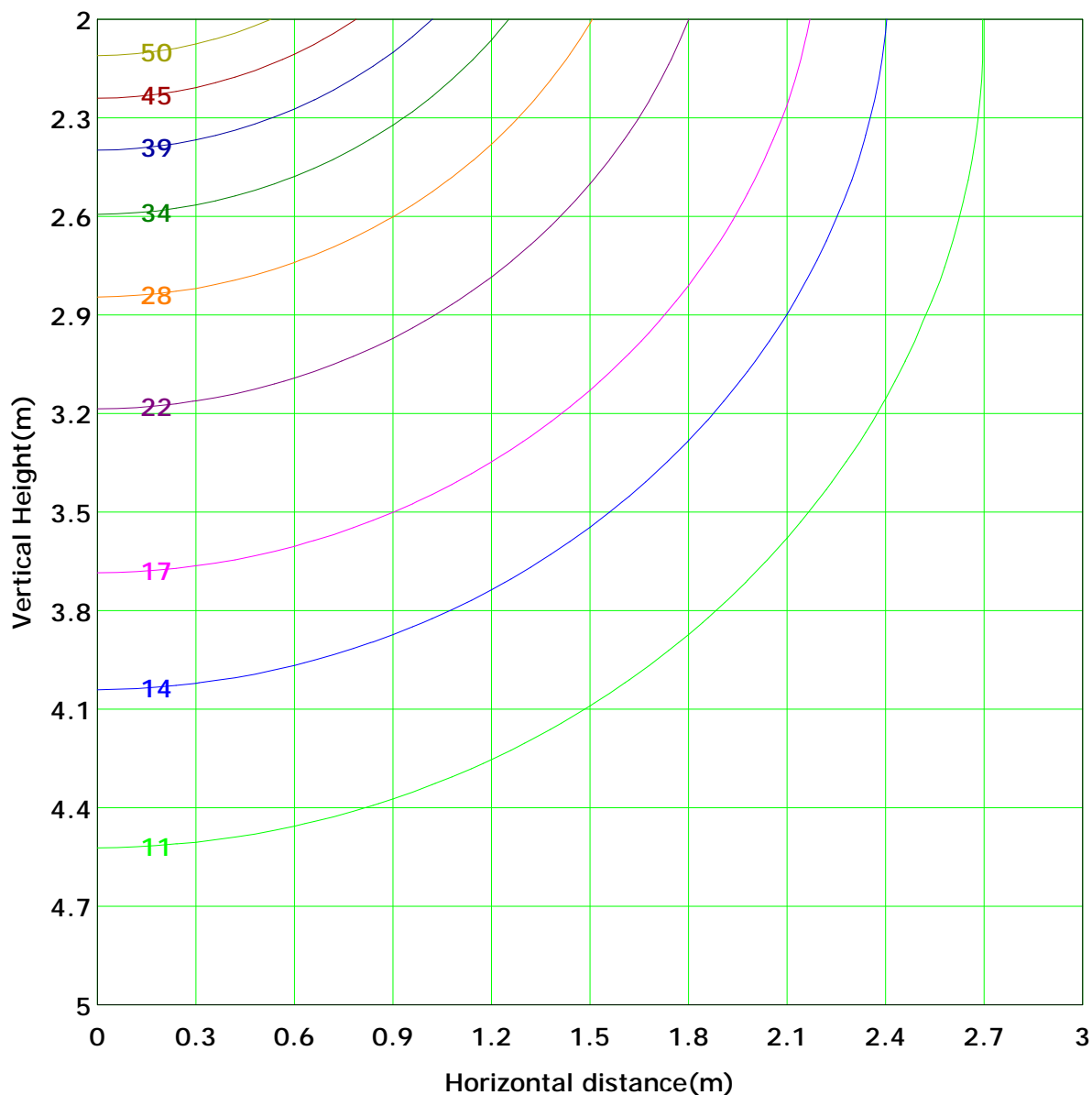
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 55.9 lx
(10%): 5.6 lx	(20%): 11.2 lx	
(25%): 14.0 lx	(30%): 16.8 lx	
(40%): 22.4 lx	(50%): 28.0 lx	
(60%): 33.6 lx	(70%): 39.2 lx	
(80%): 44.7 lx	(90%): 50.3 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

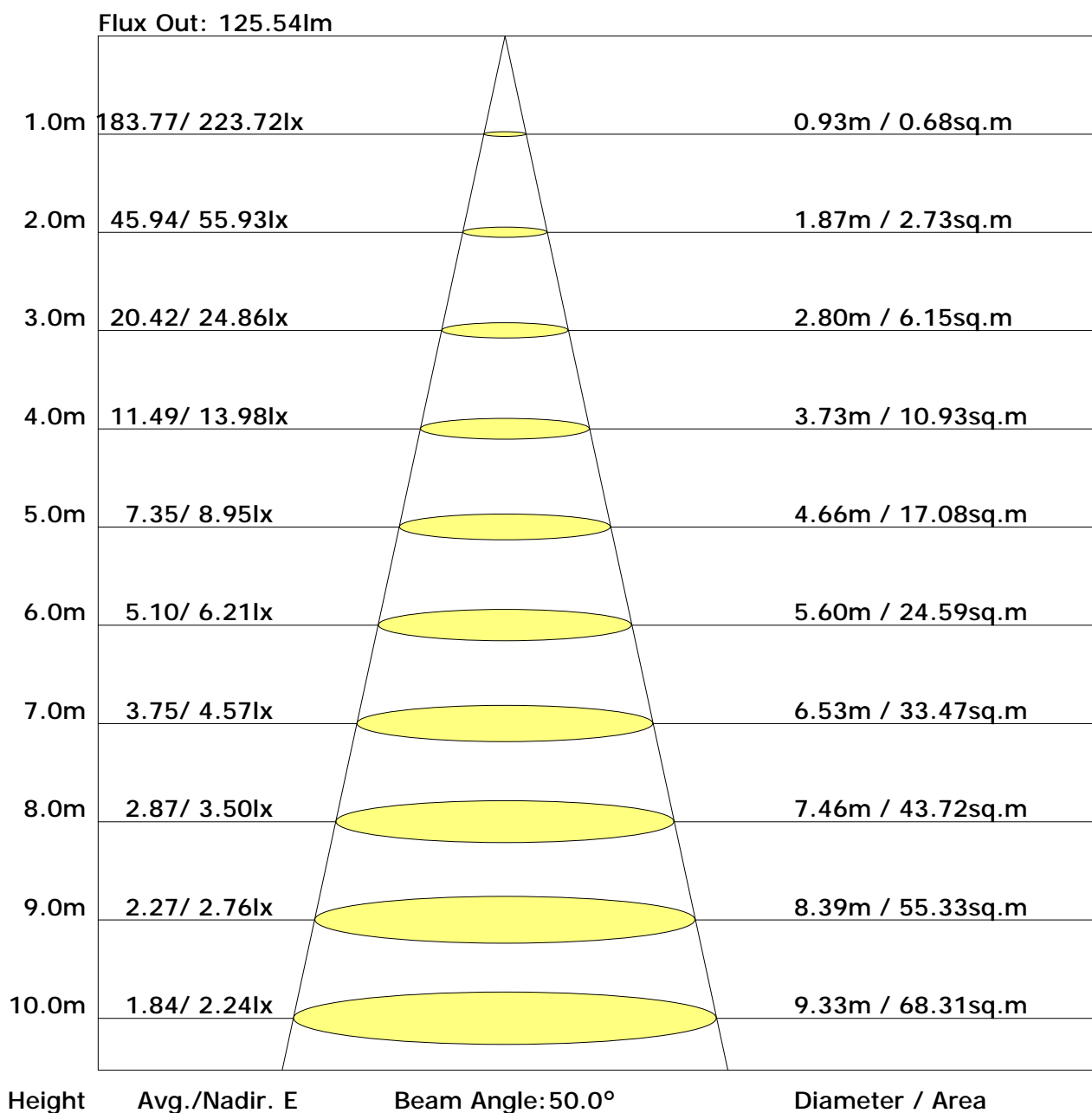
Unit: lm

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)
		0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.1
		0.0	0.1	0.2	0.4	0.7	0.9	1.1	1.3	1.4	1.4	1.2	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	4.4	3.8
		0.0	0.1	0.4	0.8	1.3	1.7	2.1	2.4	2.6	2.6	2.4	2.0	1.6	1.1	0.7	0.3	0.1	0.0	0.0	12.6	12.1
		0.0	0.2	0.6	1.2	1.8	2.5	3.1	3.5	3.7	3.7	3.4	3.0	2.4	1.6	1.1	0.7	0.3	0.0	0.0	24.2	23.7
		0.0	0.3	0.8	1.5	2.3	3.1	3.9	4.4	4.7	4.7	4.3	3.8	3.0	2.2	1.4	0.9	0.4	0.0	0.0	37.5	37.0
		0.0	0.3	0.9	1.8	2.7	3.7	4.5	5.2	5.5	5.5	5.1	4.5	3.6	2.6	1.7	1.1	0.6	0.0	0.0	50.8	50.3
		0.0	0.4	1.0	2.0	3.1	4.1	5.1	5.7	6.1	6.1	5.7	5.0	4.0	2.9	1.9	1.0	0.5	0.0	0.0	62.3	61.8
		0.0	0.4	1.1	2.1	3.3	4.4	5.4	6.1	6.5	6.5	6.1	5.3	4.3	3.2	2.0	1.0	0.3	0.0	0.0	70.7	70.2
		0.0	0.4	1.2	2.2	3.4	4.6	5.6	6.3	6.7	6.7	6.3	5.5	4.5	3.3	2.1	1.1	0.4	0.0	0.0	74.9	74.5
		0.0	0.4	1.2	2.2	3.4	4.6	5.6	6.3	6.7	6.7	6.3	5.5	4.5	3.3	2.1	1.0	0.5	0.0	0.0	74.6	74.2
		0.0	0.4	1.1	2.1	3.3	4.4	5.4	6.2	6.5	6.5	6.1	5.3	4.3	3.2	2.0	1.0	0.3	0.0	0.0	69.7	69.2
		0.0	0.4	1.0	2.0	3.1	4.1	5.1	5.8	6.1	6.1	5.7	5.0	4.0	3.0	2.0	1.1	0.6	0.0	0.0	60.9	60.3
		0.0	0.3	0.9	1.8	2.8	3.7	4.6	5.2	5.5	5.5	5.1	4.5	3.6	2.6	1.7	1.0	0.5	0.0	0.0	49.0	48.4
		0.0	0.3	0.8	1.5	2.3	3.2	3.9	4.4	4.7	4.7	4.4	3.8	3.1	2.2	1.4	0.7	0.3	0.0	0.0	35.6	35.0
		0.0	0.2	0.6	1.2	1.8	2.5	3.1	3.5	3.7	3.7	3.5	3.0	2.4	1.7	1.1	0.5	0.2	0.0	0.0	22.4	21.8
		0.0	0.1	0.4	0.8	1.3	1.7	2.2	2.5	2.6	2.6	2.4	2.1	1.6	1.1	0.7	0.3	0.1	0.0	0.0	11.2	10.6
		0.0	0.1	0.2	0.4	0.7	0.9	1.2	1.3	1.4	1.3	1.2	1.1	0.8	0.6	0.3	0.2	0.0	0.0	0.0	3.6	2.9
		0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0
		0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	665	656
		0.1	3.8	12.1	23.7	37.0	50.3	61.8	70.2	74.5	74.2	69.2	60.3	48.4	35.0	21.8	10.6	2.9	0.0	0.0		

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	27.9	29.5	28.2	29.8	30.2	27.8	29.4	28.1	29.7	30.1
3H	29.6	31.1	30.0	31.5	31.8	29.5	31.0	29.9	31.3	31.7
4H	30.3	31.7	30.7	32.0	32.4	30.1	31.5	30.5	31.8	32.2
6H	30.7	32.0	31.1	32.4	32.8	30.4	31.7	30.8	32.1	32.5
8H	30.8	32.0	31.2	32.4	32.8	30.4	31.7	30.9	32.1	32.5
12H	30.8	32.0	31.3	32.4	32.9	30.4	31.6	30.9	32.0	32.5
X=4H Y=2H	28.5	29.9	28.9	30.2	30.6	28.4	29.8	28.8	30.2	30.6
3H	30.4	31.6	30.8	32.0	32.4	30.4	31.5	30.8	31.9	32.3
4H	31.2	32.2	31.6	32.7	33.1	31.1	32.1	31.5	32.5	33.0
6H	31.7	32.6	32.1	33.1	33.5	31.5	32.4	31.9	32.9	33.3
8H	31.8	32.7	32.3	33.1	33.6	31.6	32.4	32.0	32.9	33.4
12H	31.9	32.7	32.4	33.2	33.6	31.6	32.3	32.1	32.8	33.3
X=8H Y=4H	31.4	32.3	31.9	32.7	33.2	31.4	32.2	31.8	32.7	33.2
6H	32.0	32.7	32.5	33.2	33.7	31.9	32.6	32.4	33.1	33.6
8H	32.2	32.8	32.7	33.3	33.8	32.0	32.7	32.5	33.2	33.7
12H	32.3	32.9	32.8	33.4	34.0	32.0	32.6	32.6	33.1	33.7
X=12H Y=4H	31.4	32.2	31.9	32.7	33.2	31.4	32.2	31.9	32.7	33.1
6H	32.0	32.7	32.6	33.2	33.7	31.9	32.6	32.5	33.1	33.6
8H	32.2	32.8	32.8	33.3	33.9	32.1	32.7	32.6	33.2	33.7

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	0.92	0.95	1.00	1.03
	0.30		0.47	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	0.73	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	0.48	0.55	0.61	0.68	0.73	0.77	0.82	0.85
<p>Rating:5W 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	0.80	0.68	0.60	0.47	0.43	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	0.24	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	0.18	0.14
<p>Rating:5W 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	0.09	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:5W 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>											