

Report No.:

Test Time: 2018/8/30 17:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2246.060PH 1FT(320mm)

Luminous Length (mm): 320

Luminous Width (mm): 10

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.268 A

Power: 6.43 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 824 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H119

Vertical Diffuse Angle(50%): V118.9

Luminaire Efficacy Rating (LER): 128

Max. Intensity: 267.95 cd

Total Rated Lamp Lumens: 824.0 lm

Efficiency: 100%

Upward Ratio: 1%

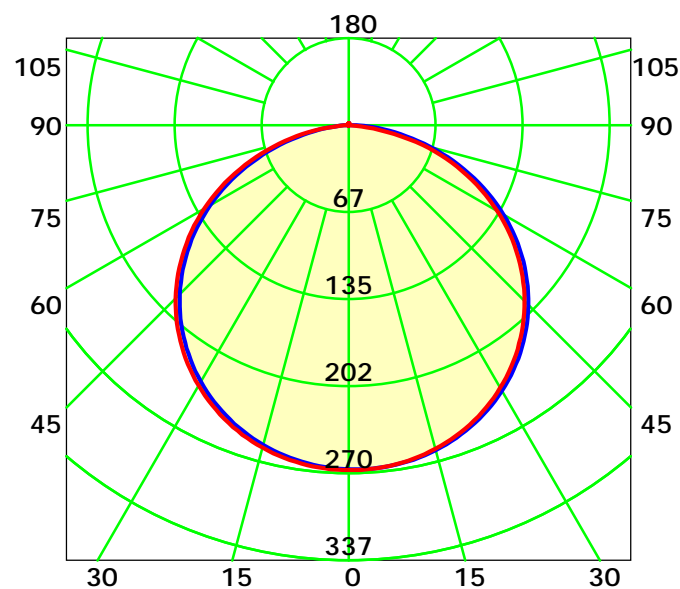
Central Intensity: 267.03 cd

Pos of Max. Intensity: H330 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 118.9° 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

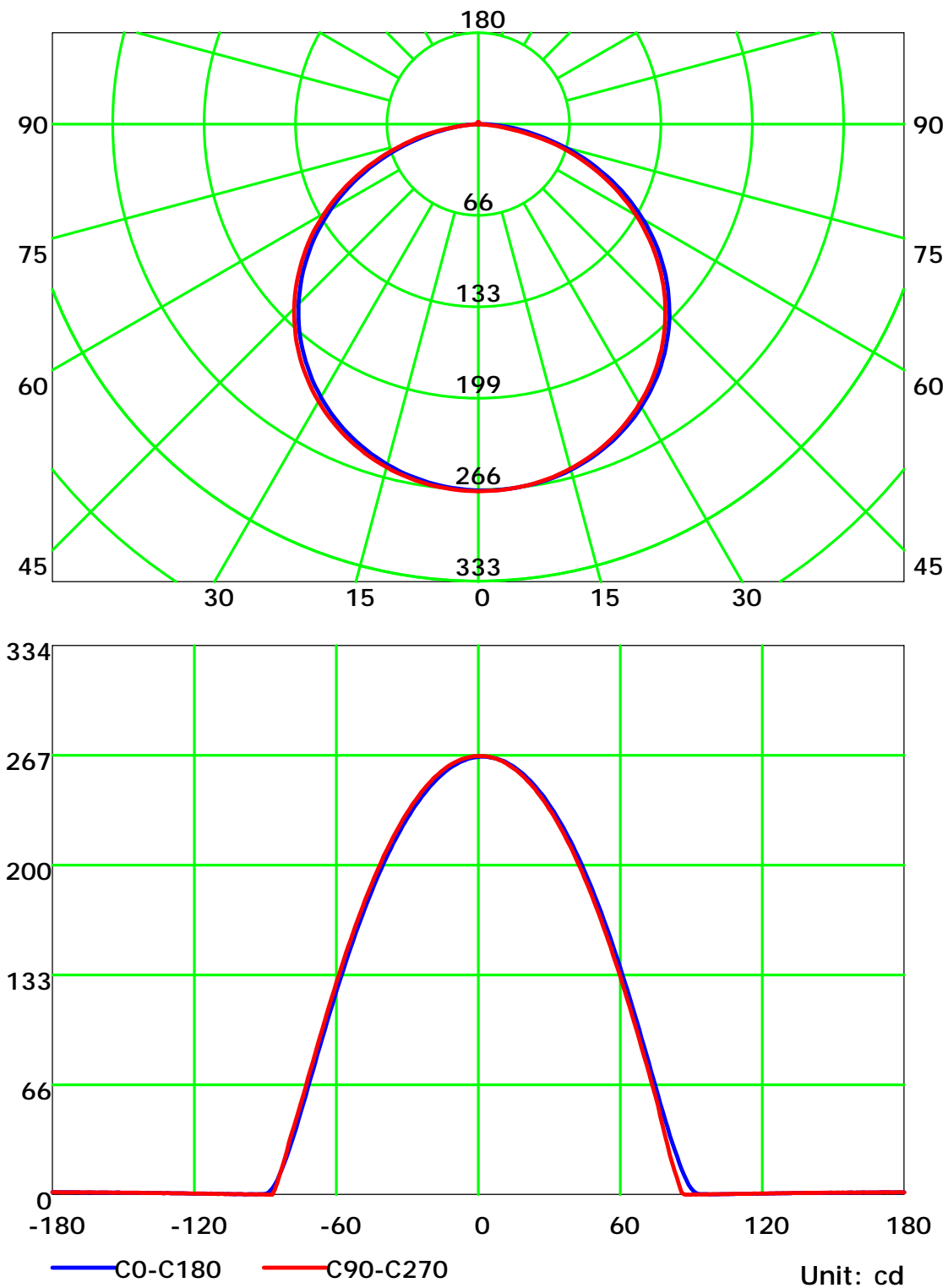
Test Device: GPM-1800B

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

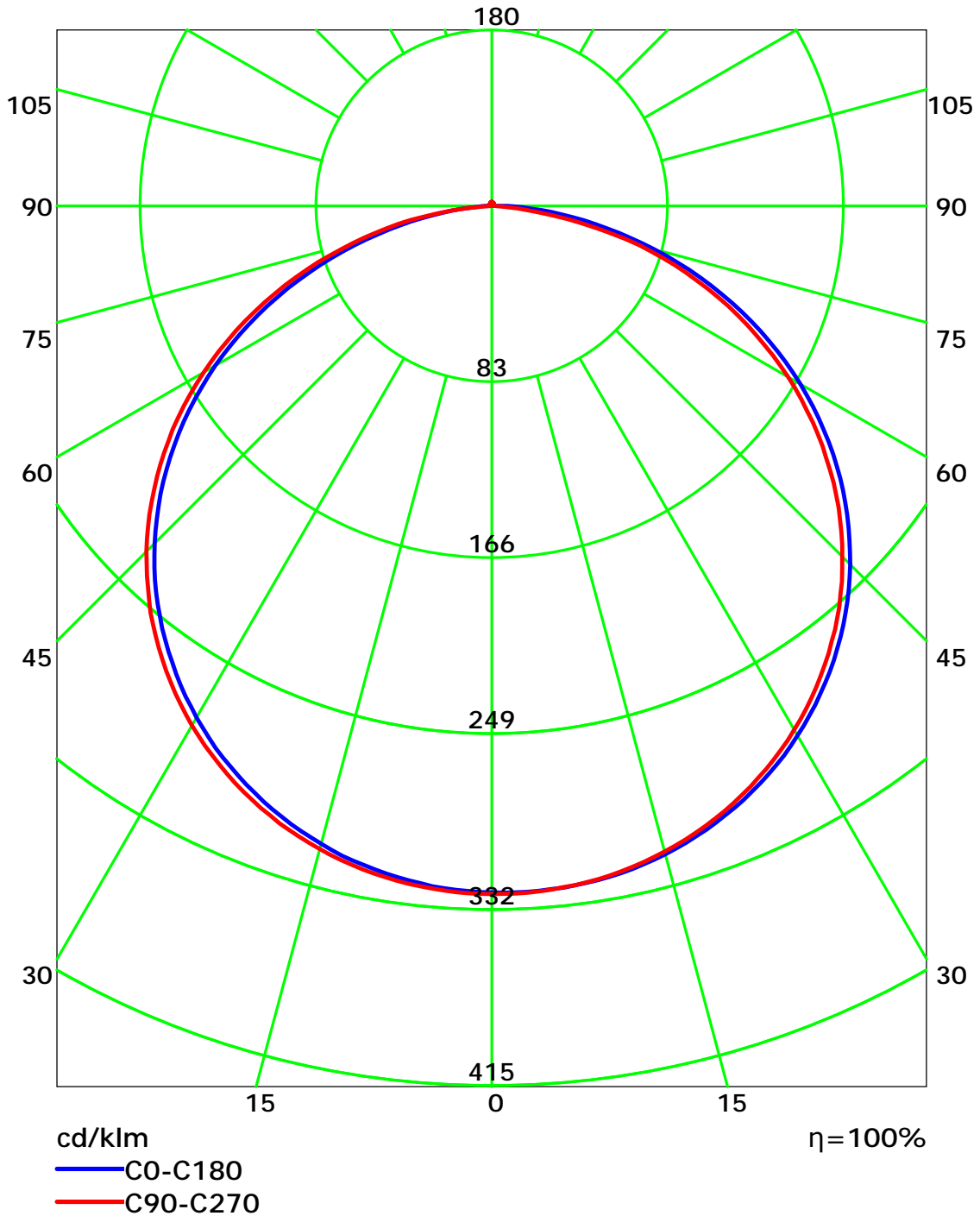
Test Device: GPM-1800B

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:

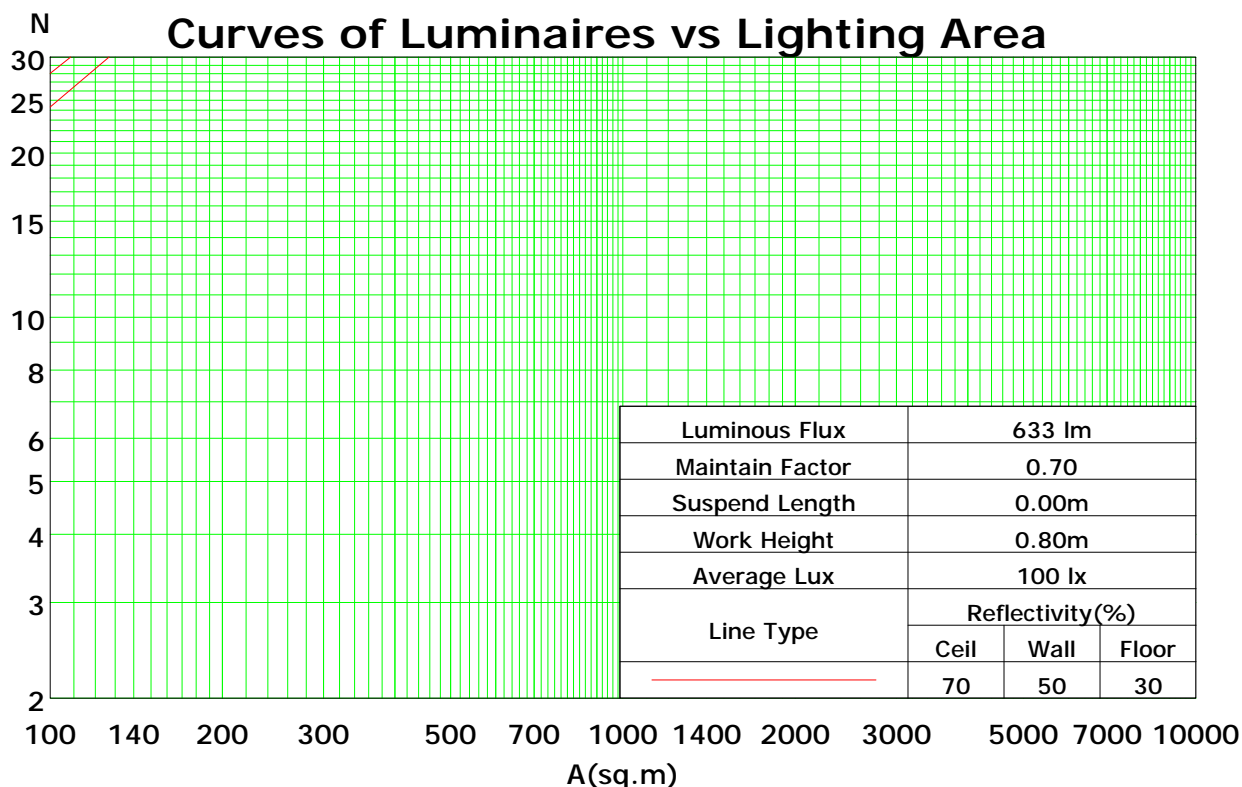
Coefficients Of Utilization - Zonal Cavity Method

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

Spacing Criteria (0-180): 1.30

Spacing Criteria (90-270): 1.30

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

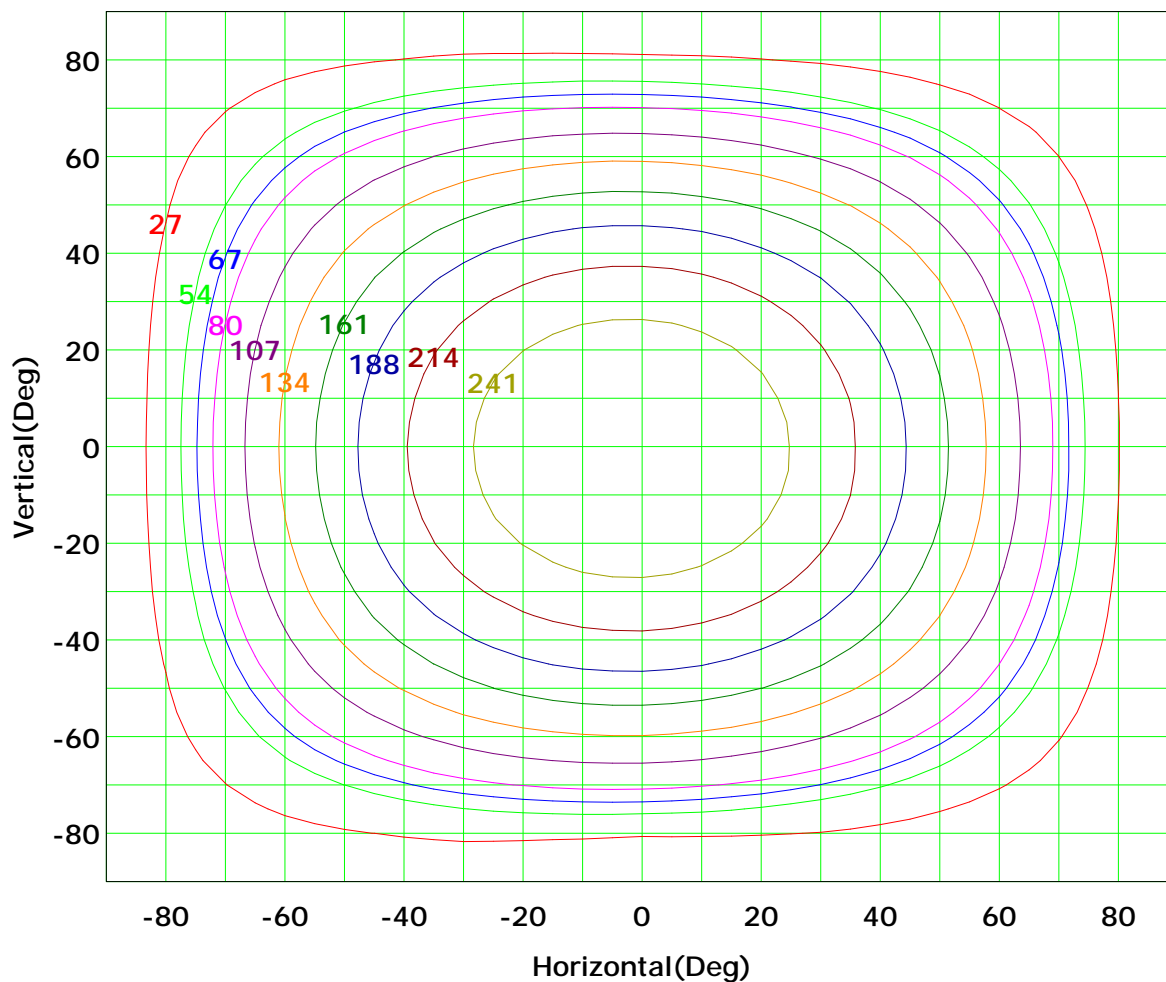
Test Device: GPM-1800B

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

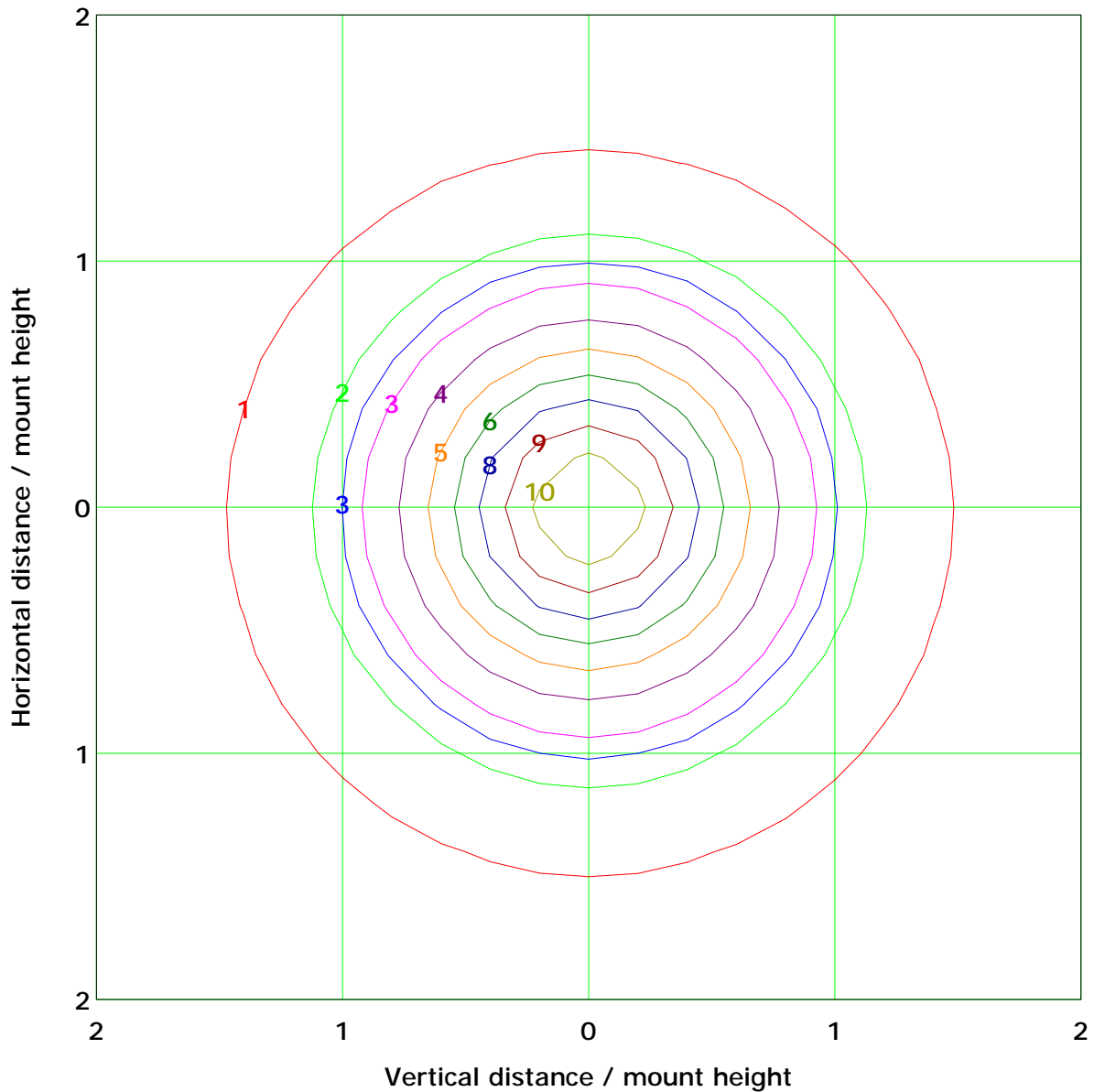
Test Device: GPM-1800B

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

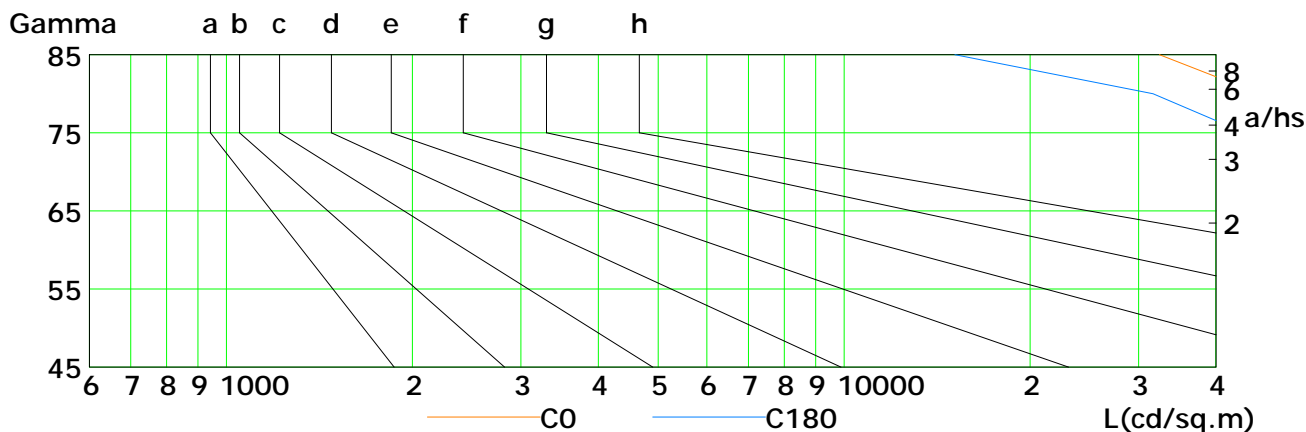
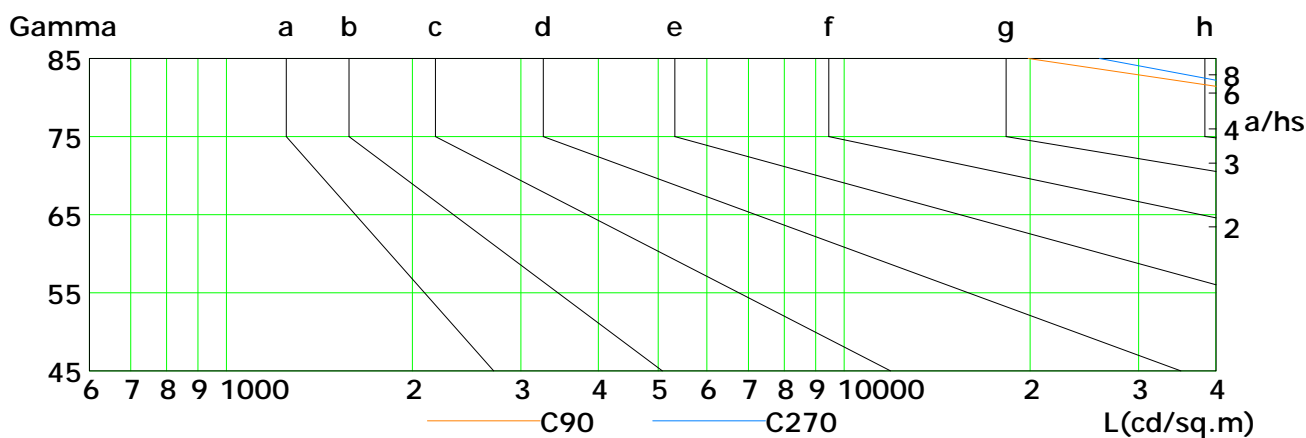
Humidity: 60%

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	79232	77983	76336	73820	70361	65168	57785	47082	32409
C90	84998	84734	84019	82771	80672	76939	71180	53314	19871
C180	74527	72496	69795	66149	61081	54123	44605	31637	15125
C270	83734	83136	82234	80458	77895	73352	66919	56726	25929

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

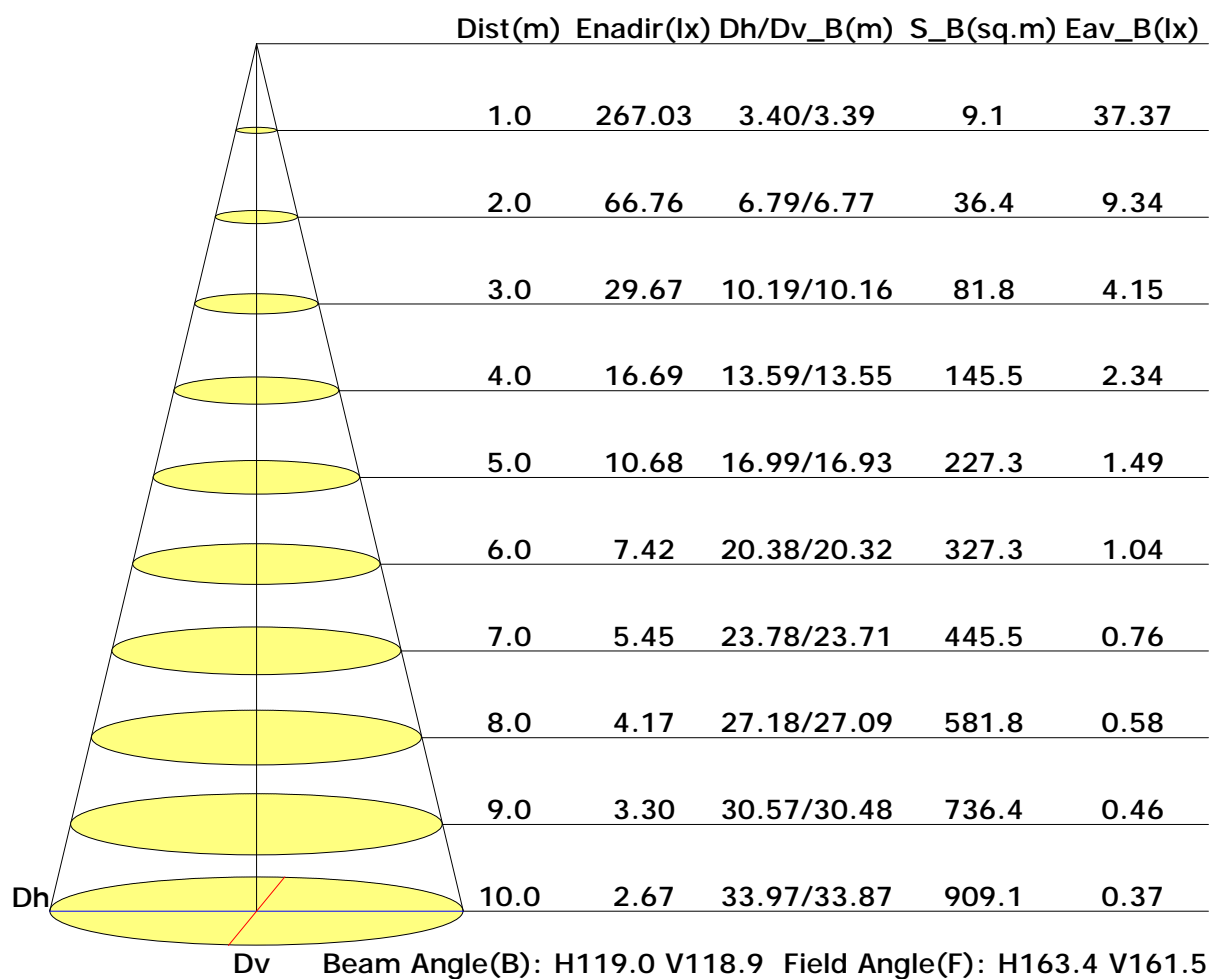
Test Device: GPM-1800B

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

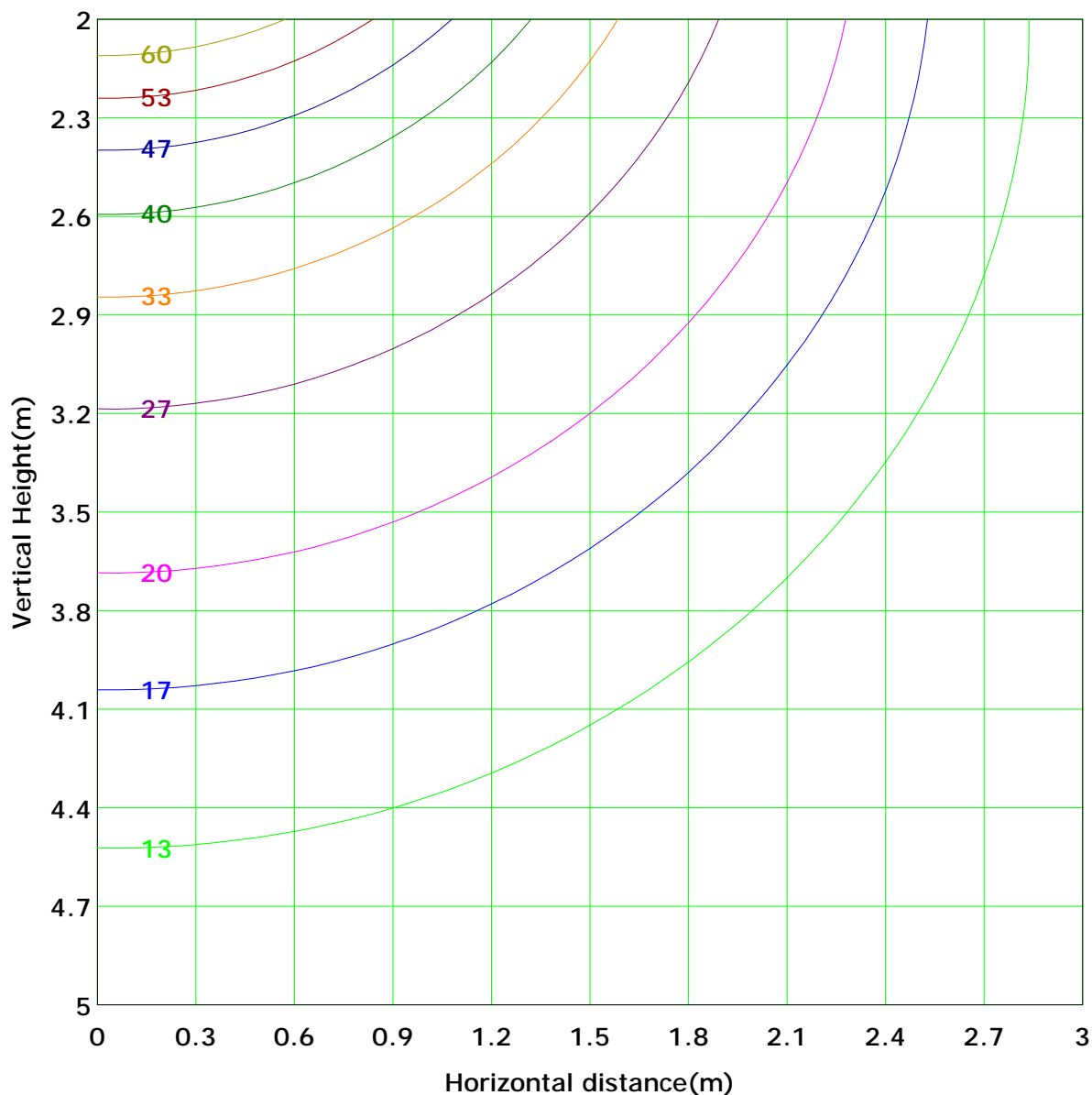
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 66.8 lx
(10%): 6.7 lx	(20%): 13.4 lx	
(25%): 16.7 lx	(30%): 20.0 lx	
(40%): 26.7 lx	(50%): 33.4 lx	
(60%): 40.1 lx	(70%): 46.7 lx	
(80%): 53.4 lx	(90%): 60.1 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%

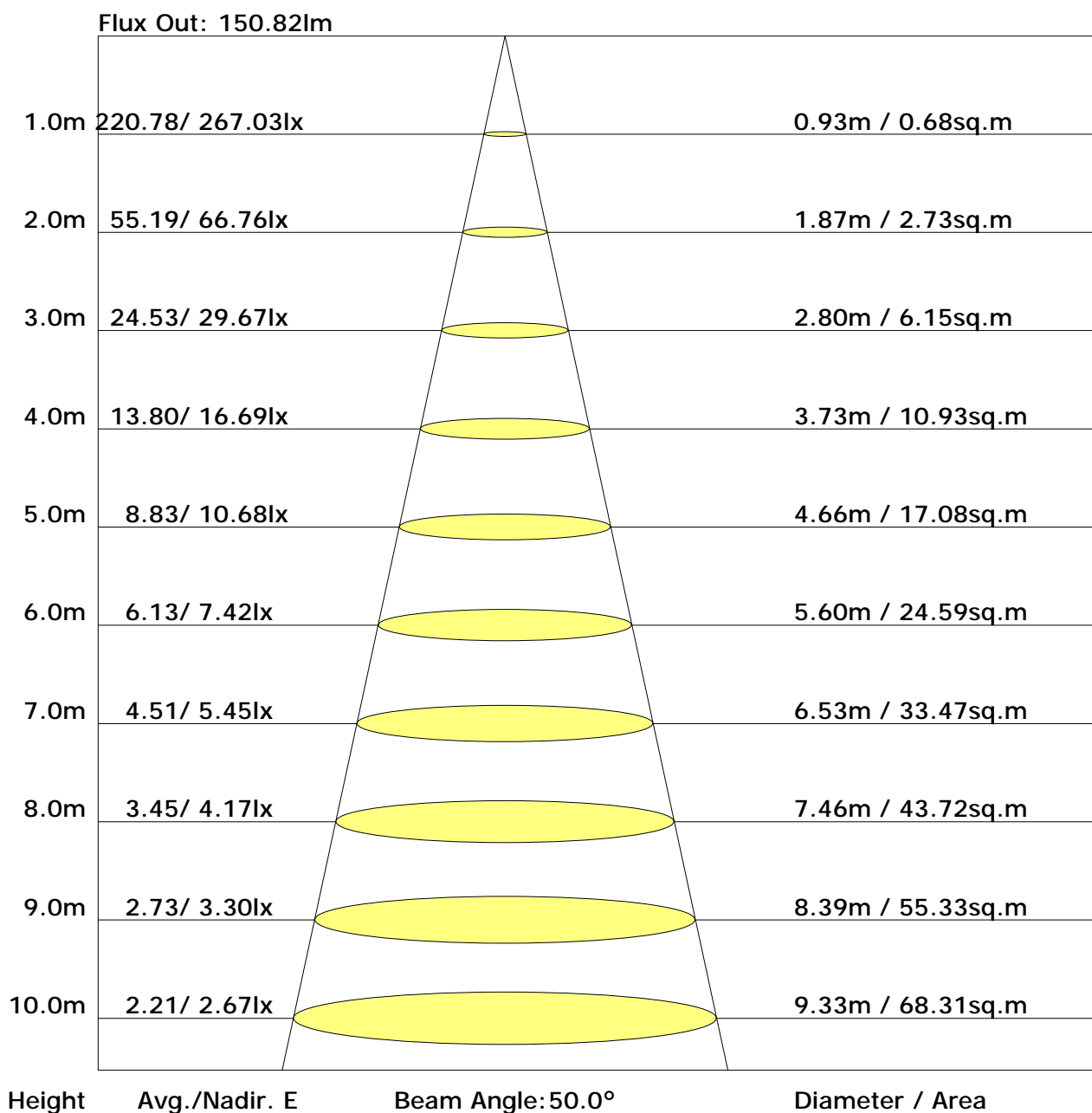
Inspector:

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	0.2	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	0.4	0.0
	-80	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.7	1.7	1.6	1.5	1.2	0.9	0.6	0.3	0.1	0.0	0.0	14.6	13.4
	-70	0.0	0.1	0.4	0.8	1.4	1.9	2.5	2.9	3.2	3.2	3.0	2.7	2.2	1.6	1.0	0.5	0.2	0.0	0.0	27.7	27.3
	-60	0.0	0.2	0.6	1.3	2.1	2.9	3.6	4.2	4.5	4.6	4.3	3.8	3.1	2.3	1.5	0.8	0.3	0.0	0.0	40.1	39.9
	-50	0.0	0.3	0.8	1.7	2.7	3.7	4.6	5.3	5.7	5.7	5.4	4.8	3.9	2.9	1.9	1.0	0.4	0.0	0.0	51.0	50.8
	-40	0.0	0.3	1.0	2.0	3.2	4.4	5.4	6.2	6.6	6.7	6.3	5.6	4.6	3.4	2.3	1.2	0.4	0.1	0.1	59.7	59.6
	-30	0.0	0.4	1.1	2.3	3.6	4.9	6.0	6.9	7.3	7.4	7.0	6.2	5.1	3.8	2.5	1.3	0.5	0.1	0.1	66.4	66.3
	-20	0.0	0.4	1.2	2.5	3.8	5.2	6.4	7.3	7.8	7.8	7.4	6.6	5.4	4.1	2.7	1.4	0.5	0.1	0.1	70.8	70.7
	-10	0.0	0.4	1.3	2.5	4.0	5.4	6.6	7.5	8.0	8.1	7.6	6.8	5.6	4.2	2.8	1.5	0.5	0.1	0.1	73.0	72.9
	0	0.0	0.4	1.3	2.6	4.0	5.4	6.6	7.5	8.0	8.1	7.6	6.8	5.6	4.2	2.8	1.5	0.5	0.1	0.1	73.1	73.0
	10	0.0	0.4	1.3	2.5	3.9	5.2	6.4	7.3	7.8	7.8	7.4	6.6	5.5	4.1	2.7	1.4	0.5	0.1	0.1	71.0	71.0
	20	0.0	0.4	1.2	2.3	3.6	4.9	6.1	6.9	7.4	7.4	7.0	6.2	5.1	3.9	2.5	1.3	0.5	0.1	0.1	66.8	66.7
	30	0.0	0.3	1.0	2.0	3.2	4.4	5.5	6.3	6.7	6.7	6.4	5.7	4.7	3.5	2.3	1.2	0.4	0.1	0.1	60.4	60.3
	40	0.0	0.3	0.8	1.7	2.7	3.8	4.7	5.4	5.8	5.8	5.5	4.9	4.0	3.0	1.9	1.0	0.4	0.0	0.0	51.7	51.6
	50	0.0	0.2	0.6	1.3	2.1	3.0	3.7	4.3	4.6	4.7	4.4	3.9	3.2	2.4	1.5	0.8	0.3	0.0	0.0	41.1	40.9
	60	0.0	0.1	0.4	0.8	1.4	2.0	2.6	3.0	3.3	3.3	3.1	2.8	2.3	1.7	1.1	0.6	0.2	0.0	0.0	28.7	28.3
	70	0.0	0.1	0.2	0.4	0.7	1.0	1.4	1.6	1.7	1.8	1.7	1.5	1.3	0.9	0.6	0.3	0.1	0.0	0.0	15.4	14.3
	80	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	3.8	0.5
	90	0.4	4.2	13.5	27.2	43.3	59.6	74.0	84.8	90.8	91.5	86.8	77.2	63.5	47.5	31.1	16.5	5.9	0.8	0.8	819	
	Flux(E)	0.0	3.5	12.8	26.6	42.7	59.0	73.4	84.2	90.4	91.0	86.2	76.6	62.9	46.9	30.5	15.9	5.3	0.3			808

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	28.4	30.1	28.8	30.4	30.7	27.9	29.5	28.3	29.9	30.2
3H	30.4	31.9	30.8	32.2	32.6	29.7	31.2	30.0	31.5	31.9
4H	31.2	32.6	31.6	32.9	33.3	30.3	31.7	30.7	32.1	32.4
6H	31.7	33.1	32.2	33.4	33.8	30.6	31.9	31.1	32.3	32.7
8H	31.9	33.2	32.4	33.6	34.0	30.7	31.9	31.1	32.3	32.8
12H	32.1	33.3	32.5	33.7	34.1	30.7	31.9	31.1	32.3	32.7
X=4H Y=2H	29.0	30.4	29.4	30.8	31.2	28.5	30.0	29.0	30.3	30.7
3H	31.2	32.4	31.6	32.8	33.2	30.5	31.7	31.0	32.1	32.5
4H	32.1	33.2	32.6	33.6	34.1	31.3	32.3	31.7	32.8	33.2
6H	32.8	33.8	33.3	34.2	34.7	31.7	32.7	32.2	33.1	33.6
8H	33.1	33.9	33.5	34.4	34.9	31.8	32.7	32.3	33.2	33.6
12H	33.3	34.1	33.8	34.5	35.0	31.8	32.6	32.3	33.1	33.6
X=8H Y=4H	32.4	33.3	32.9	33.7	34.2	31.6	32.5	32.1	32.9	33.4
6H	33.2	33.9	33.7	34.4	34.9	32.1	32.9	32.7	33.4	33.9
8H	33.5	34.2	34.0	34.7	35.2	32.3	33.0	32.8	33.5	34.0
12H	33.8	34.4	34.3	34.9	35.4	32.4	32.9	32.9	33.4	34.0
X=12H Y=4H	32.4	33.2	32.9	33.7	34.2	31.6	32.4	32.1	32.9	33.4
6H	33.3	33.9	33.8	34.4	34.9	32.2	32.9	32.7	33.3	33.9
8H	33.6	34.2	34.1	34.7	35.3	32.4	33.0	32.9	33.5	34.1

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	0.58	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		0.45	0.53	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	0.55	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.49	0.57	0.64	0.69	0.77	0.81	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	0.42	0.50	0.57	0.62	0.69	0.74	0.78	0.82	0.86
<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(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	0.97	0.82	0.69	0.61	0.48	0.40	0.34	0.27	0.22
	0.30		0.81	0.70	0.61	0.54	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	0.67	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	0.56	0.44	0.37	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		0.68	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.57	0.50	0.43	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>											