

Report No.:

Test Time: 2018/10/15 11:04

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.206 A

Power Factor: 1.000

Luminaire Description: RBS220243.0B

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 4.95 W

Photometric Results

CIE Class: Direct

Measurement Flux: 125 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H130.2

Vertical Diffuse Angle(50%): V129.4

Luminaire Efficacy Rating (LER): 25

Max. Intensity: 35.82 cd

Total Rated Lamp Lumens: 125.0 lm

Efficiency: 100%

Upward Ratio: 1%

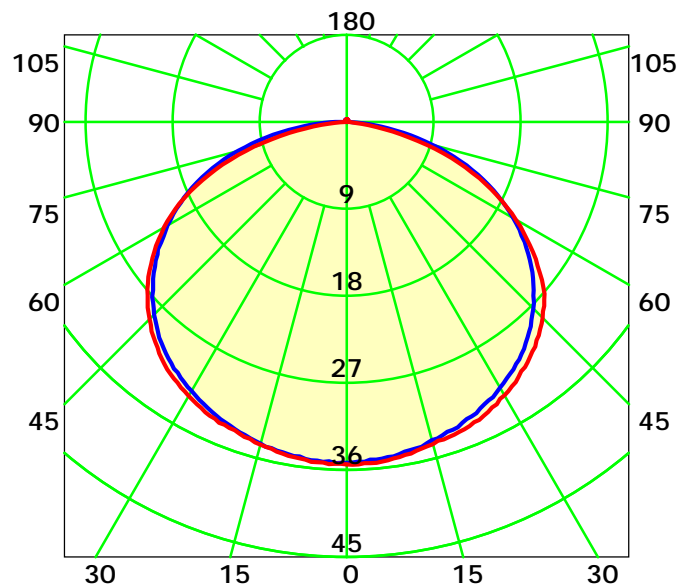
Central Intensity: 35.51 cd

Pos of Max. Intensity: H150 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 129.8° 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

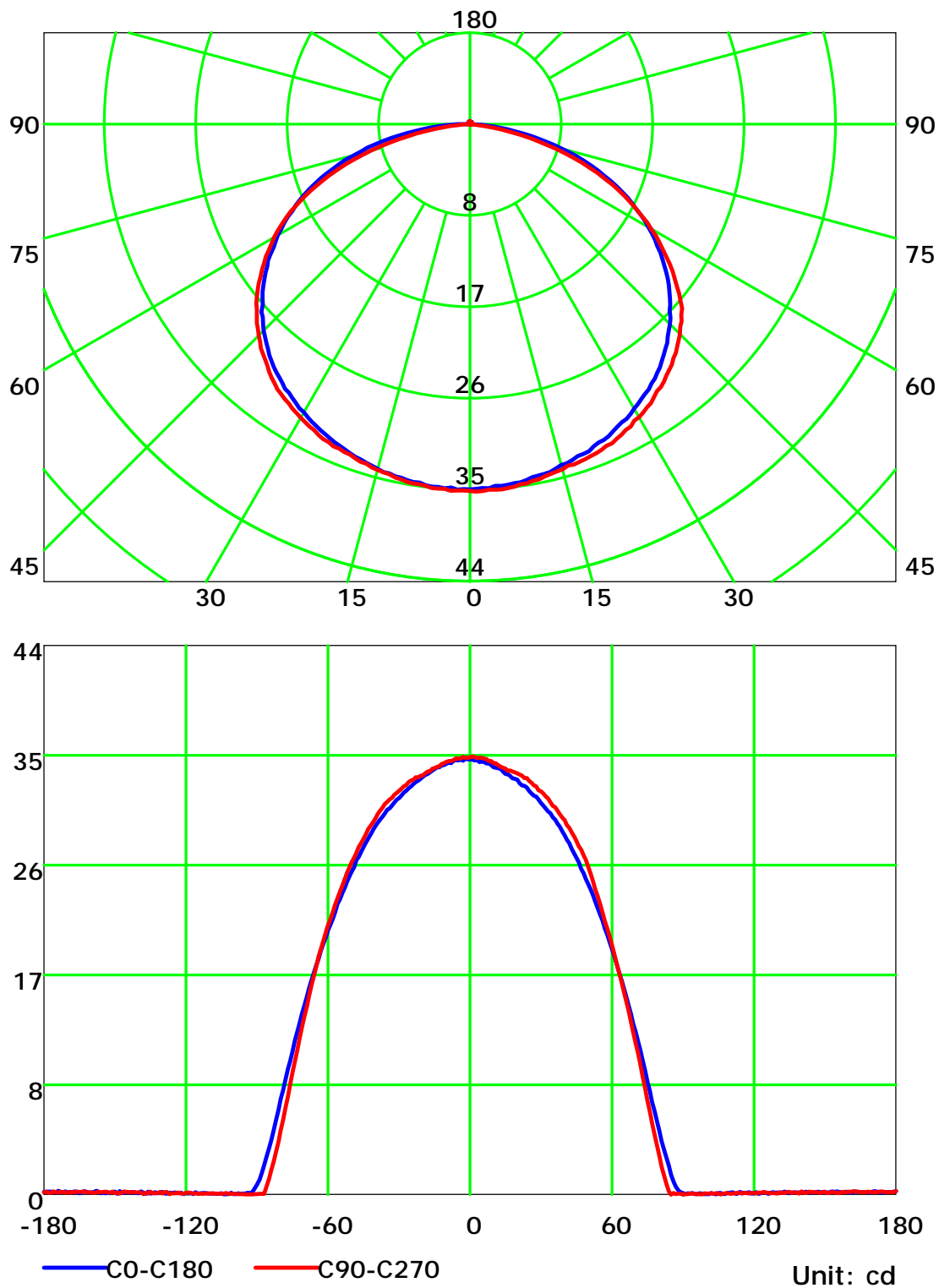
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

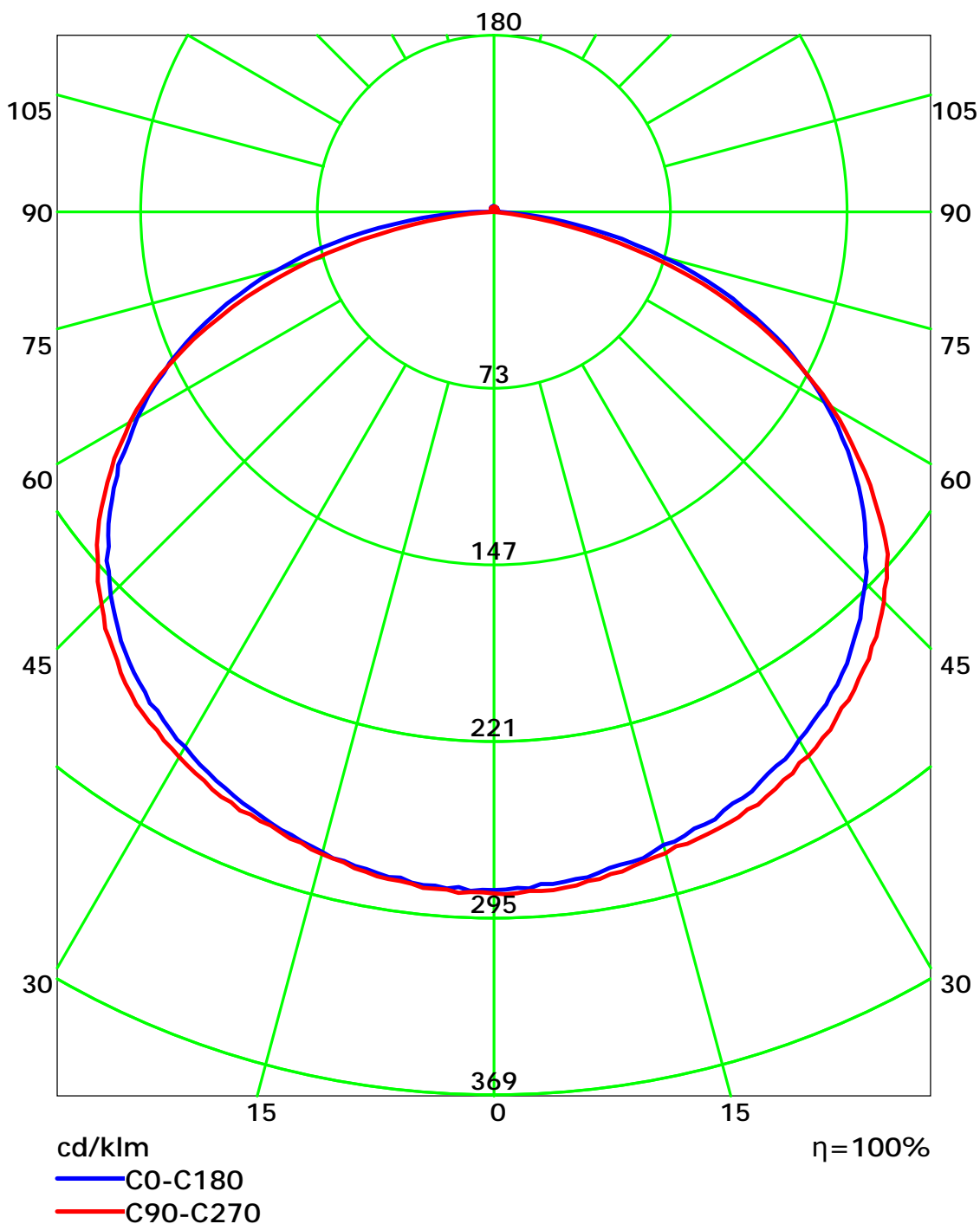
Luminous Intensity Distribution Curve



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:

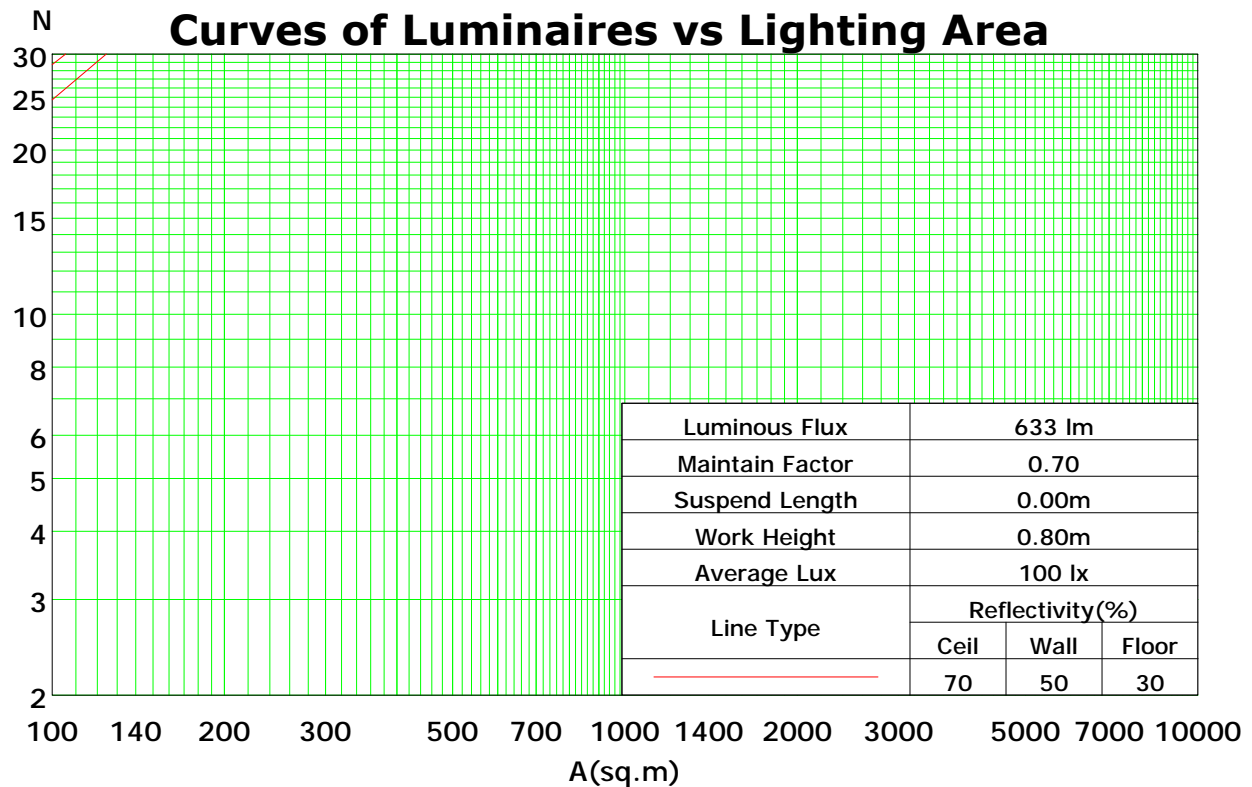
Coefficients Of Utilization - Zonal Cavity Method

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	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	83	81
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	68	66
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	41	39
6	68	54	44	37	65	53	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	33	46	38	32	44	37	32	43	36	32	30
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26
9	54	40	32	26	53	40	31	26	38	31	26	37	30	25	36	30	25	23
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21

Spacing Criteria (0-180): 1.35

Spacing Criteria (90-270): 1.38

Spacing Criteria (Diagonal): 1.52



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

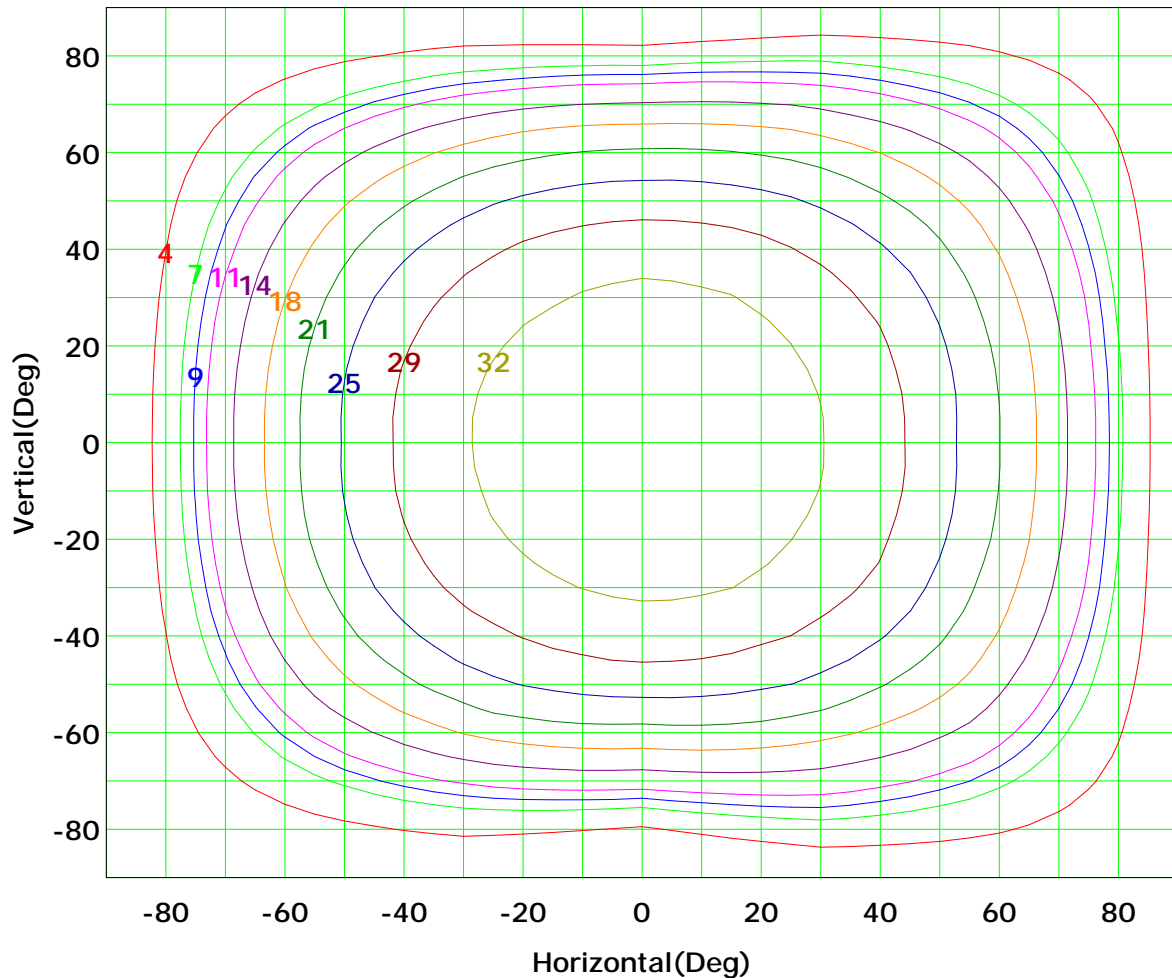
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 36 cd

(10%):	4 cd	(20%):	7 cd
(25%):	9 cd	(30%):	11 cd
(40%):	14 cd	(50%):	18 cd
(60%):	21 cd	(70%):	25 cd
(80%):	29 cd	(90%):	32 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

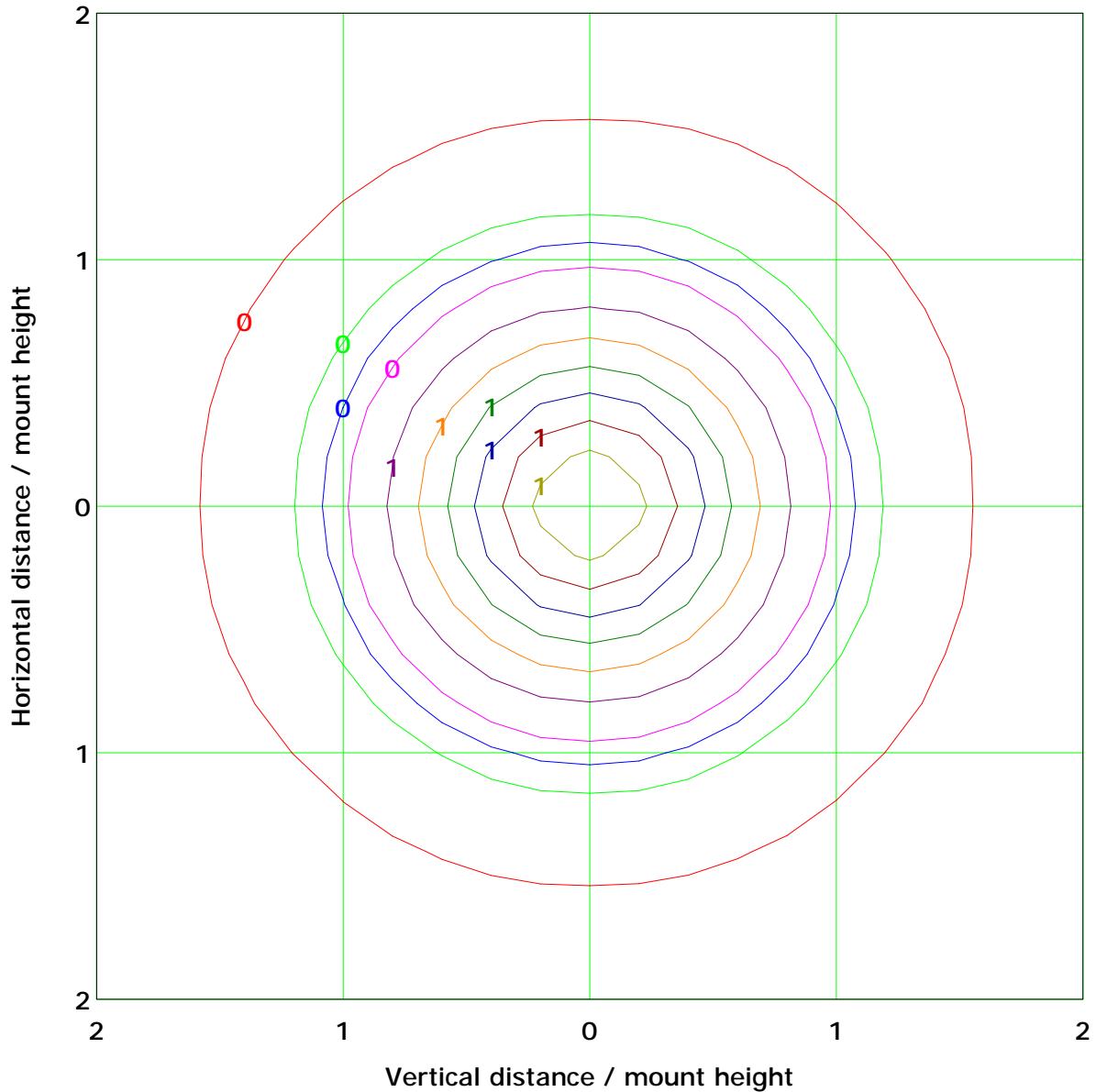
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



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

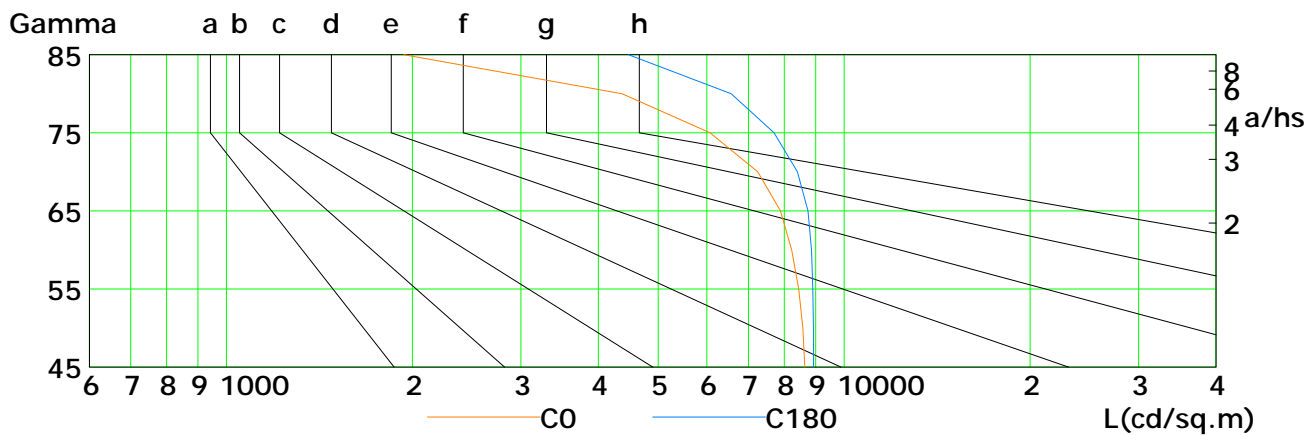
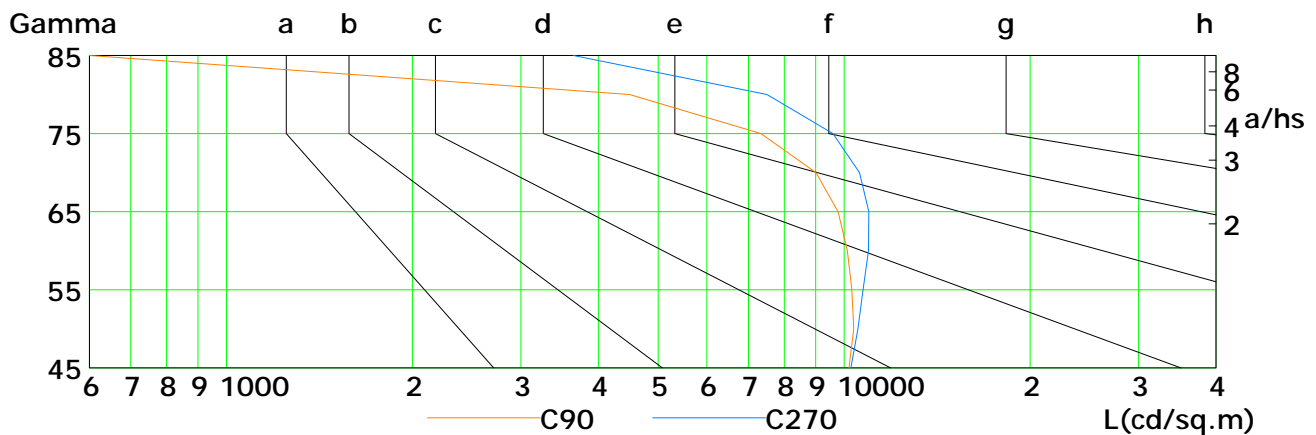
Humidity: 60%

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	8639	8574	8447	8228	7888	7247	6066	4372	1937
C90	10183	10375	10301	10130	9784	9007	7335	4498	0
C180	8919	8923	8902	8861	8742	8406	7706	6563	4476
C270	10254	10527	10735	10957	10968	10592	9597	7502	3646

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

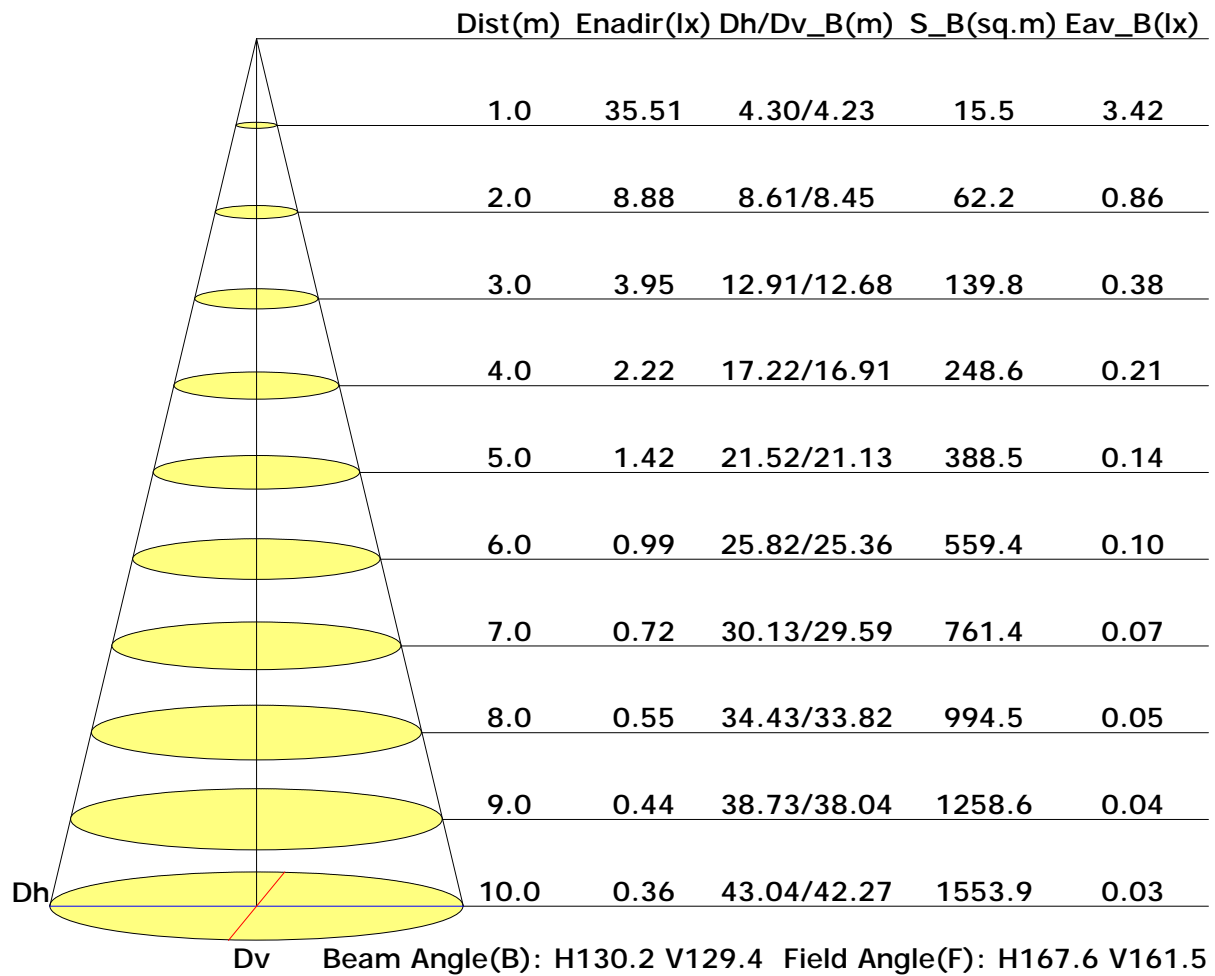
Test Device: GPM-1800B

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

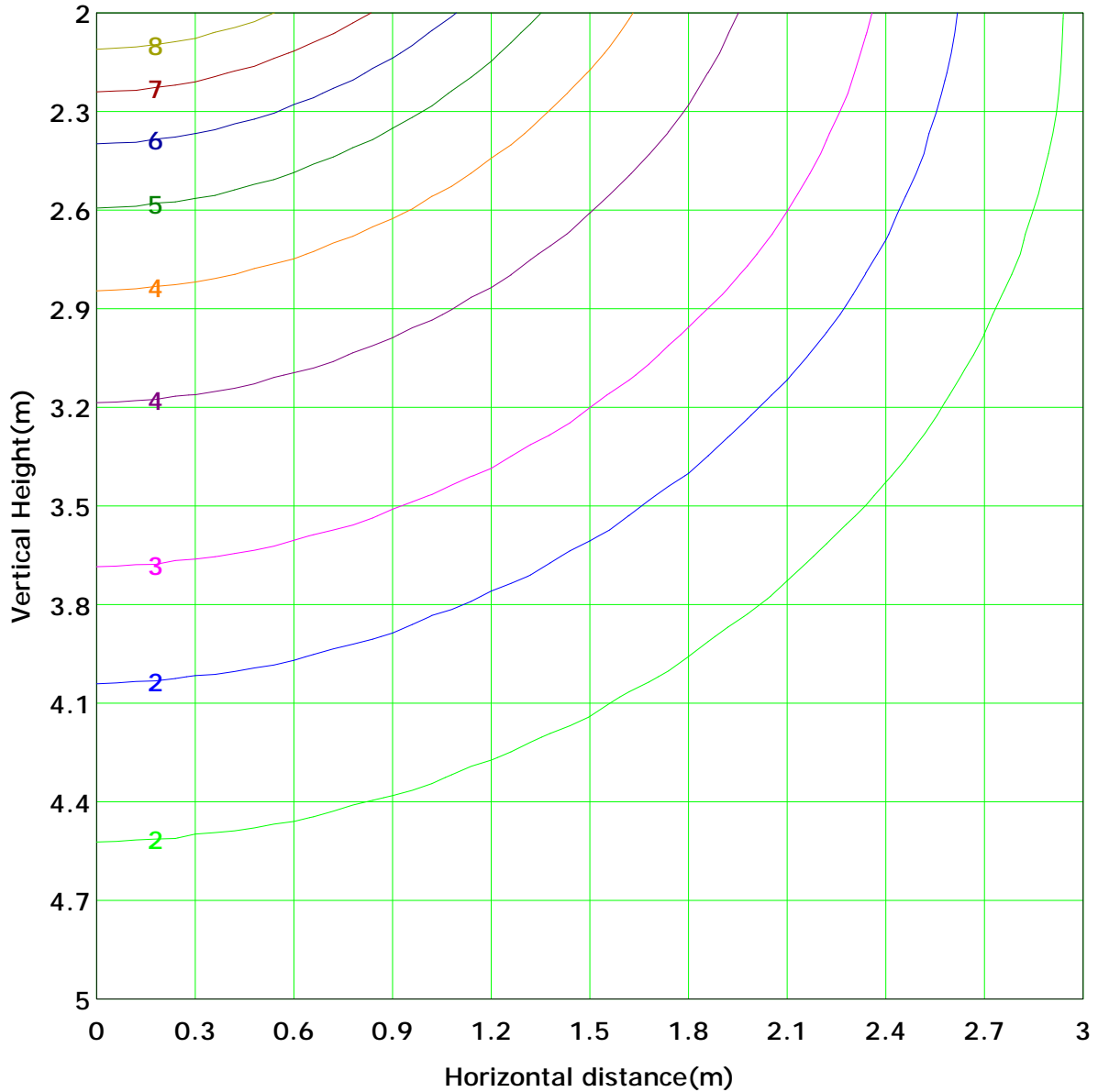
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 8.9 lx
(10%): 0.9 lx	(20%): 1.8 lx	(30%): 2.7 lx
(25%): 2.2 lx	(40%): 3.6 lx	(50%): 4.4 lx
(60%): 5.3 lx	(70%): 6.2 lx	(80%): 7.1 lx
(90%): 8.0 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

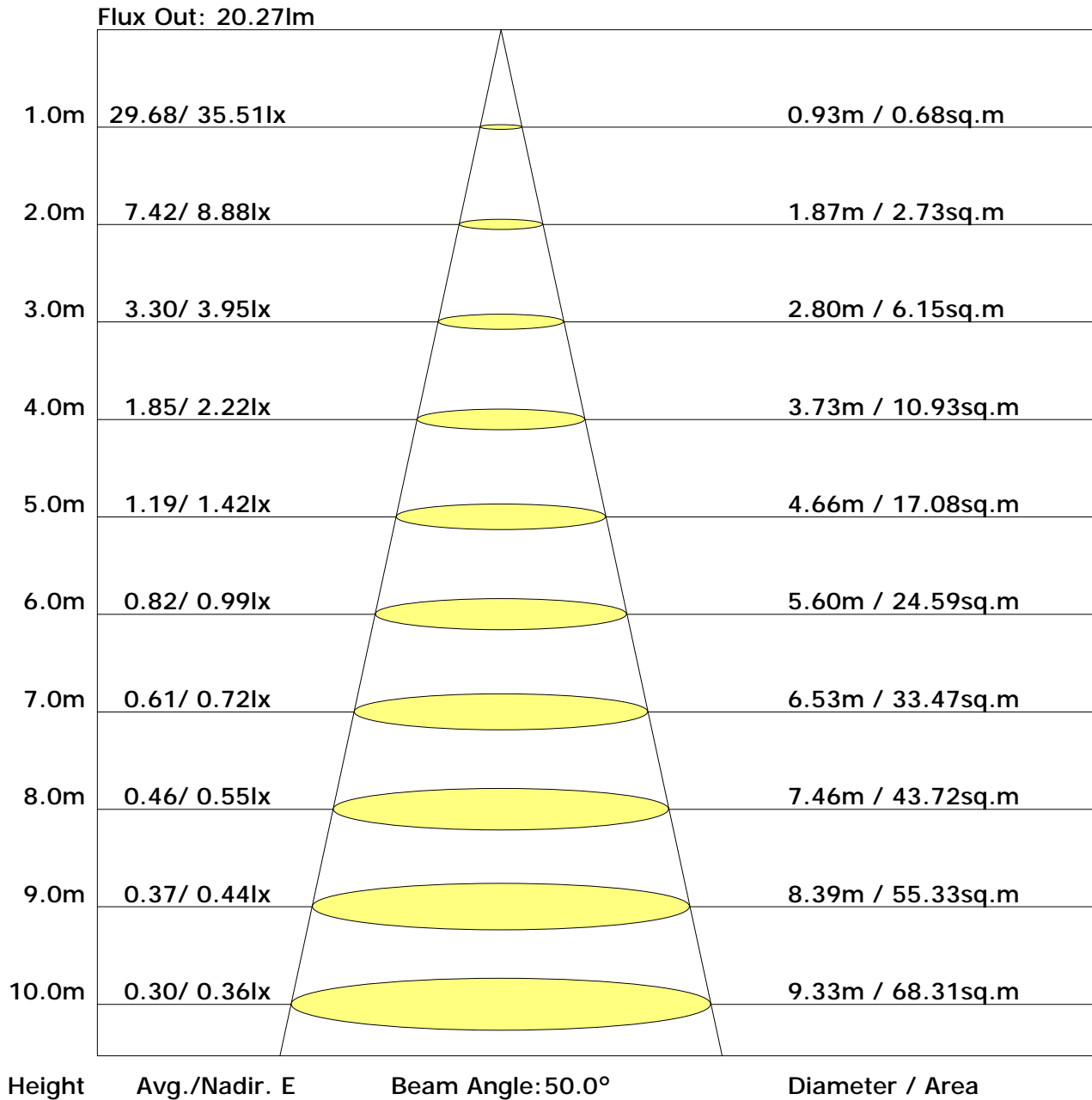
Distance: 9.028 m

Humidity: 60%

Inspector:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure



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:

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	27.4	29.1	27.7	29.4	29.7	27.2	28.9	27.6	29.2	29.5
3H	29.4	30.9	29.8	31.3	31.6	28.9	30.4	29.3	30.8	31.1
4H	30.1	31.6	30.5	31.9	32.3	29.4	30.8	29.8	31.2	31.6
6H	30.6	32.0	31.0	32.3	32.7	29.6	31.0	30.0	31.3	31.8
8H	30.7	32.0	31.2	32.4	32.8	29.6	30.9	30.1	31.3	31.7
12H	30.8	32.0	31.2	32.4	32.9	29.6	30.8	30.0	31.2	31.7
X=4H Y=2H	28.1	29.5	28.5	29.9	30.3	27.9	29.4	28.3	29.8	30.2
3H	30.3	31.5	30.7	31.9	32.4	29.9	31.1	30.3	31.5	31.9
4H	31.1	32.3	31.6	32.7	33.1	30.5	31.7	31.0	32.1	32.5
6H	31.7	32.7	32.2	33.2	33.6	30.9	31.9	31.3	32.3	32.8
8H	31.9	32.8	32.4	33.3	33.7	30.9	31.8	31.4	32.3	32.8
12H	32.0	32.8	32.5	33.3	33.8	30.9	31.7	31.4	32.2	32.7
X=8H Y=4H	31.4	32.3	31.9	32.8	33.3	31.0	31.9	31.4	32.3	32.8
6H	32.1	32.9	32.6	33.4	33.9	31.4	32.2	31.9	32.7	33.2
8H	32.3	33.0	32.8	33.5	34.0	31.5	32.2	32.0	32.7	33.2
12H	32.5	33.1	33.0	33.6	34.1	31.6	32.2	32.1	32.7	33.2
X=12H Y=4H	31.4	32.3	31.9	32.8	33.2	31.0	31.8	31.5	32.3	32.8
6H	32.2	32.8	32.7	33.3	33.9	31.5	32.2	32.1	32.7	33.3
8H	32.4	33.0	32.9	33.5	34.1	31.7	32.3	32.2	32.8	33.4

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 = 1.50								
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	0.55	0.64	0.72	0.78	0.85	0.90	0.94	0.99	1.02
	0.30		0.47	0.56	0.64	0.70	0.79	0.84	0.89	0.94	0.98
	0.20		0.42	0.50	0.58	0.64	0.73	0.79	0.84	0.91	0.95
0.50	0.50	0.20	0.54	0.62	0.69	0.75	0.82	0.87	0.90	0.95	0.98
	0.30		0.47	0.55	0.63	0.68	0.76	0.82	0.86	0.91	0.95
	0.20		0.41	0.49	0.57	0.63	0.72	0.77	0.82	0.88	0.92
0.30	0.50	0.20	0.52	0.60	0.67	0.72	0.79	0.83	0.87	0.91	0.94
	0.30		0.46	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.91
	0.20		0.41	0.49	0.56	0.62	0.70	0.76	0.80	0.85	0.89
0.00	0.00	0.00	0.39	0.46	0.54	0.59	0.66	0.72	0.76	0.81	0.84
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

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(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	1.01	0.87	0.73	0.64	0.51	0.43	0.37	0.29	0.23
	0.30		0.84	0.74	0.64	0.57	0.46	0.39	0.34	0.27	0.22
	0.20		0.72	0.65	0.57	0.51	0.42	0.36	0.32	0.25	0.21
0.50	0.50	0.20	0.98	0.83	0.70	0.61	0.49	0.44	0.35	0.27	0.22
	0.30		0.83	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.72	0.64	0.56	0.50	0.41	0.35	0.31	0.24	0.20
0.30	0.50	0.20	0.95	0.80	0.68	0.59	0.47	0.39	0.33	0.26	0.21
	0.30		0.81	0.70	0.61	0.53	0.43	0.37	0.31	0.25	0.20
	0.20		0.71	0.63	0.55	0.49	0.40	0.34	0.30	0.24	0.20
0.00	0.00	0.00	0.61	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.15
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

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(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	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	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	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.10	0.12	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	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.13	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
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

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: