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Report No.:

Test Time: 2018/10/11 11:14

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.103 A

Power Factor: 1.000

Luminaire Description: RBS220241.5B

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 2.48 W

Photometric Results

CIE Class: Direct

Measurement Flux: 61.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H130.8

Vertical Diffuse Angle(50%): V129.7

Luminaire Efficacy Rating (LER): 25

Max. Intensity: 17.6 cd

Total Rated Lamp Lumens: 61.7 lm

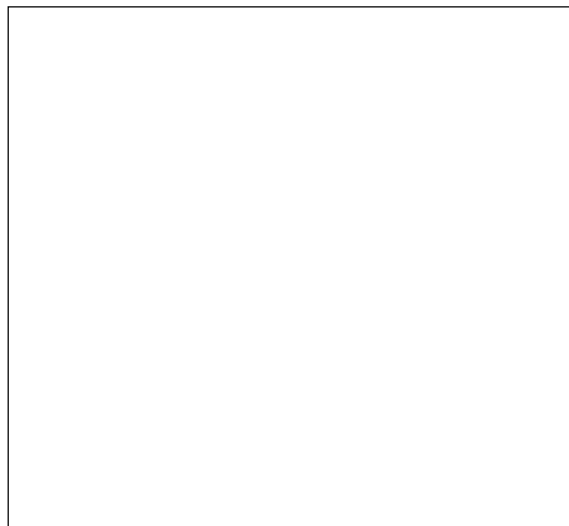
Efficiency: 100%

Upward Ratio: 1%

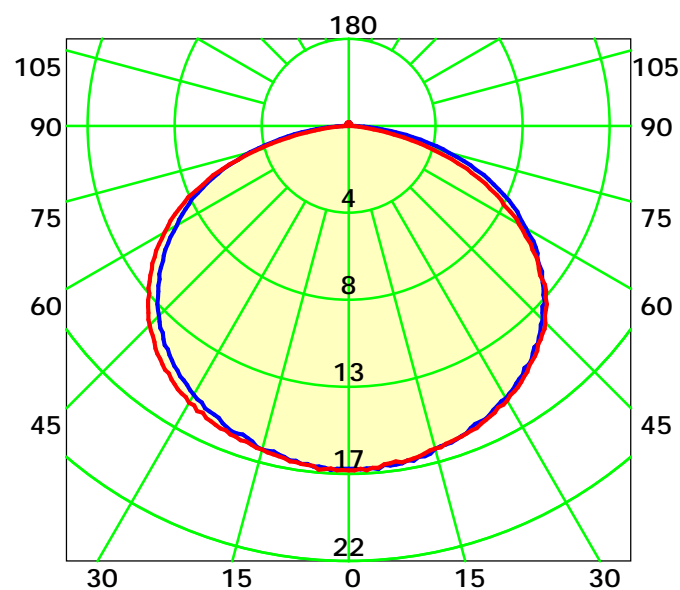
Central Intensity: 17.46 cd

Pos of Max. Intensity: H240 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 130.3° 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

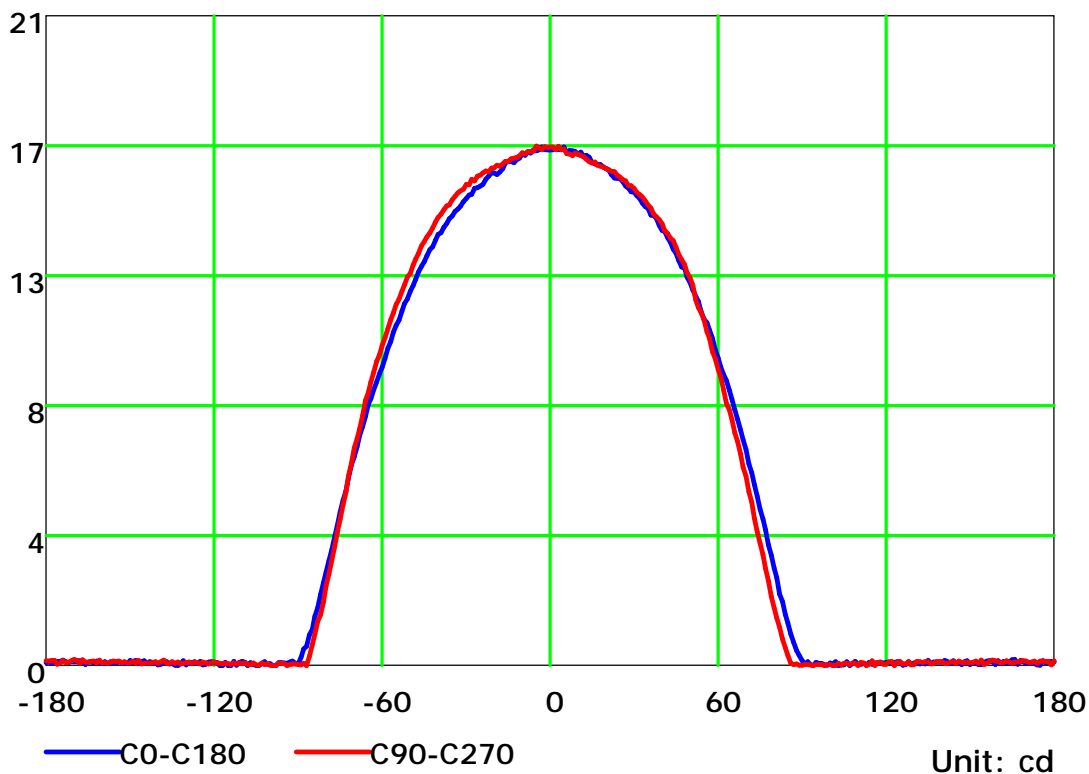
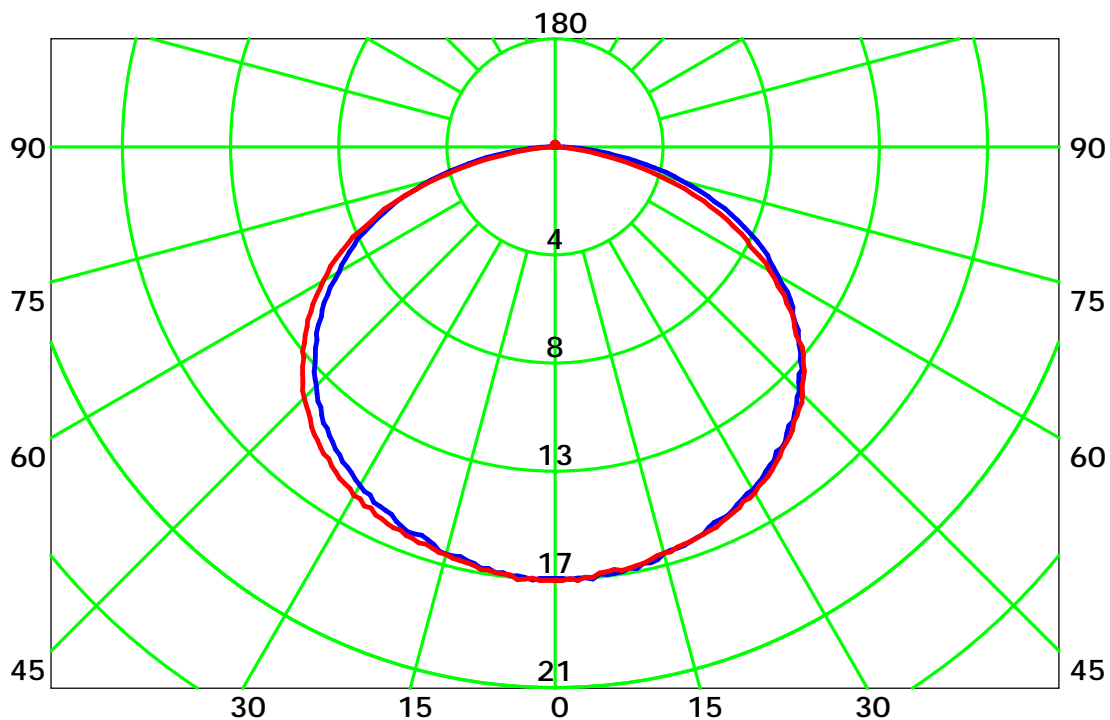
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

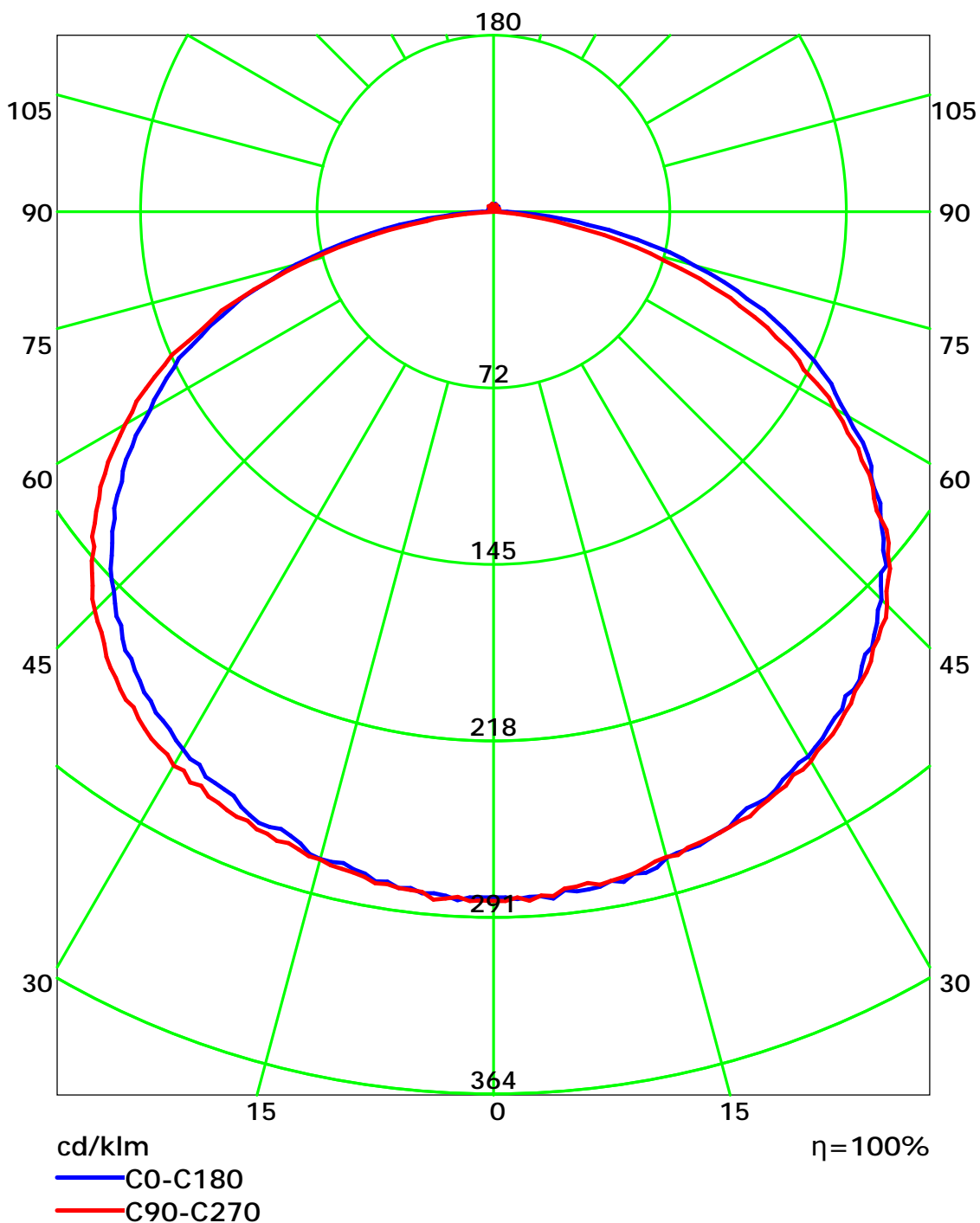
Luminous Intensity Distribution Curve



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:



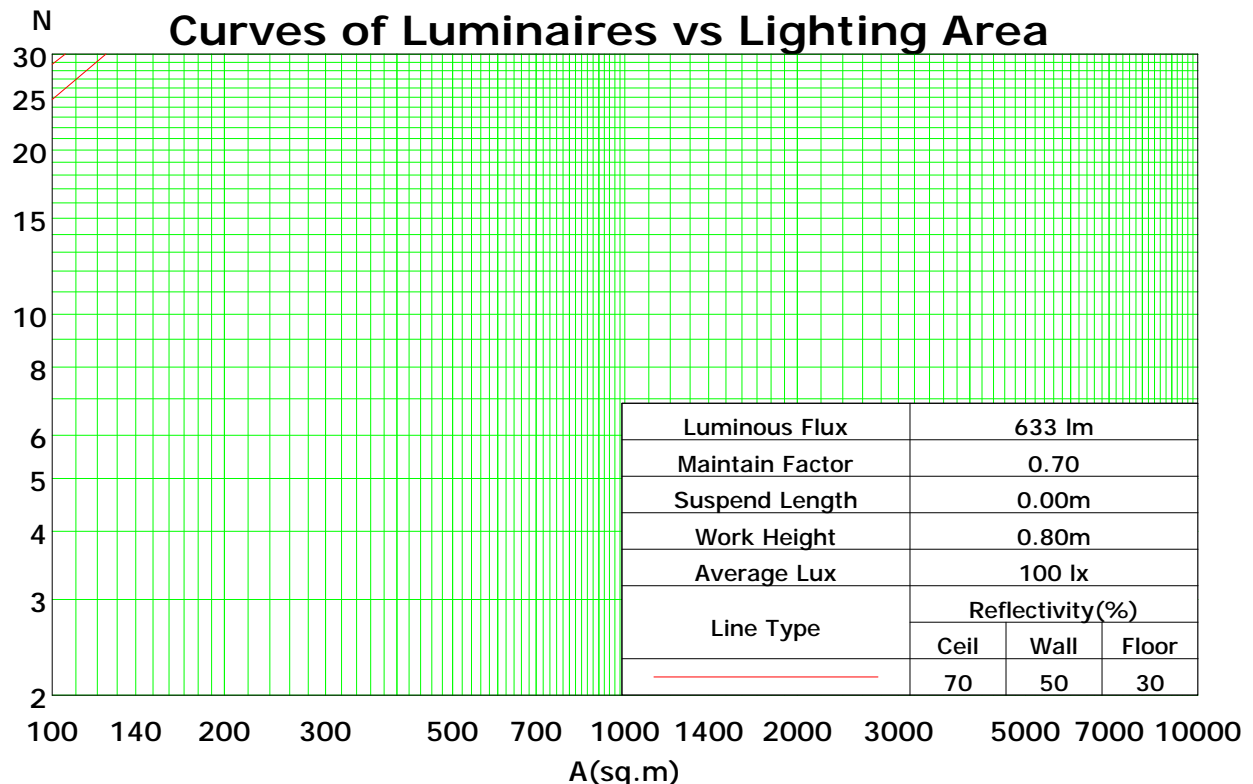
Coefficients Of Utilization - Zonal Cavity Method

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	91	89	86	88	85	83	81
2	97	88	81	75	94	86	79	74	82	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	54
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	58	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	36	32	29
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26
9	54	40	32	26	52	39	31	26	38	31	26	37	30	25	36	30	25	23
10	51	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23	21

Spacing Criteria (0-180): 1.36

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

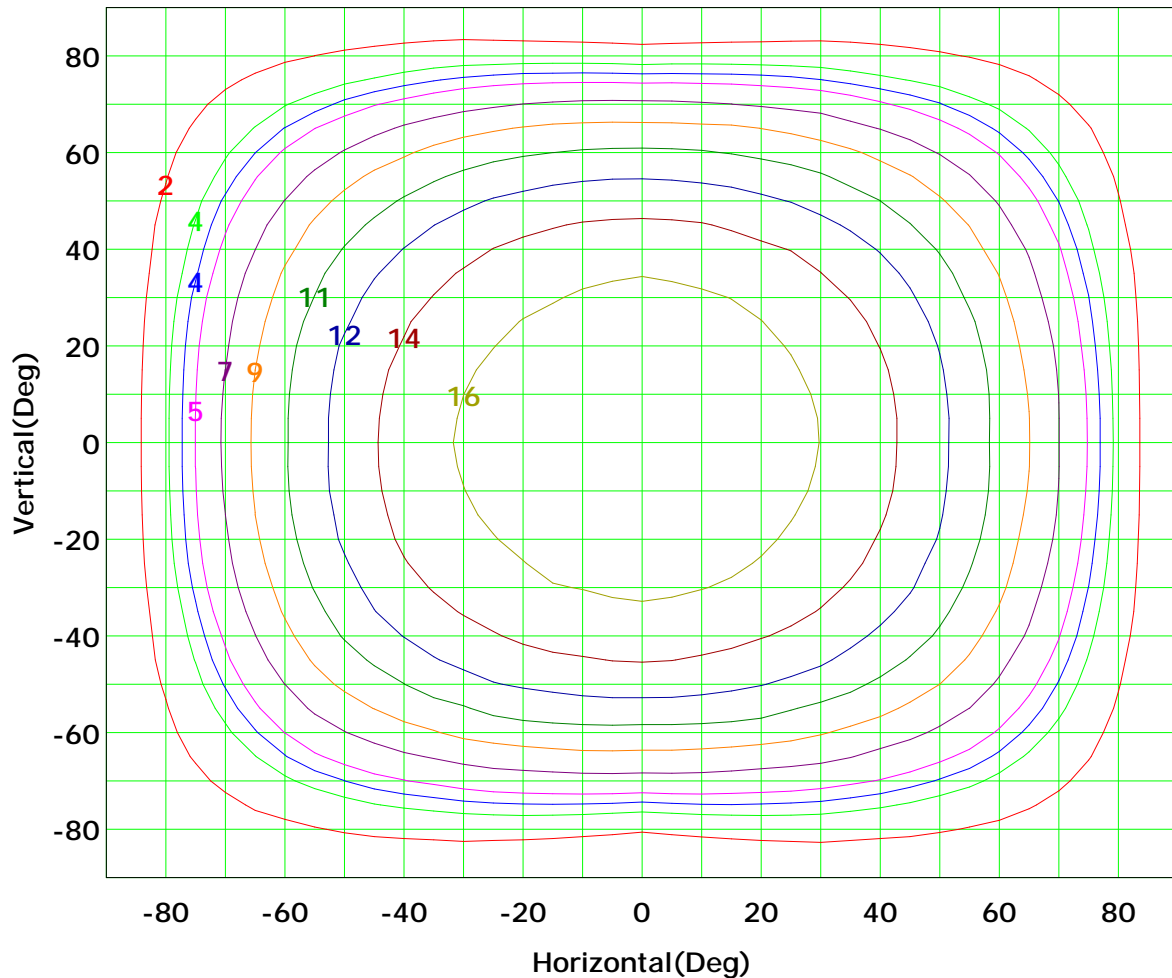
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



Imax (100%): 18 cd

(10%):	2 cd	(20%):	4 cd
(25%):	4 cd	(30%):	5 cd
(40%):	7 cd	(50%):	9 cd
(60%):	11 cd	(70%):	12 cd
(80%):	14 cd	(90%):	16 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

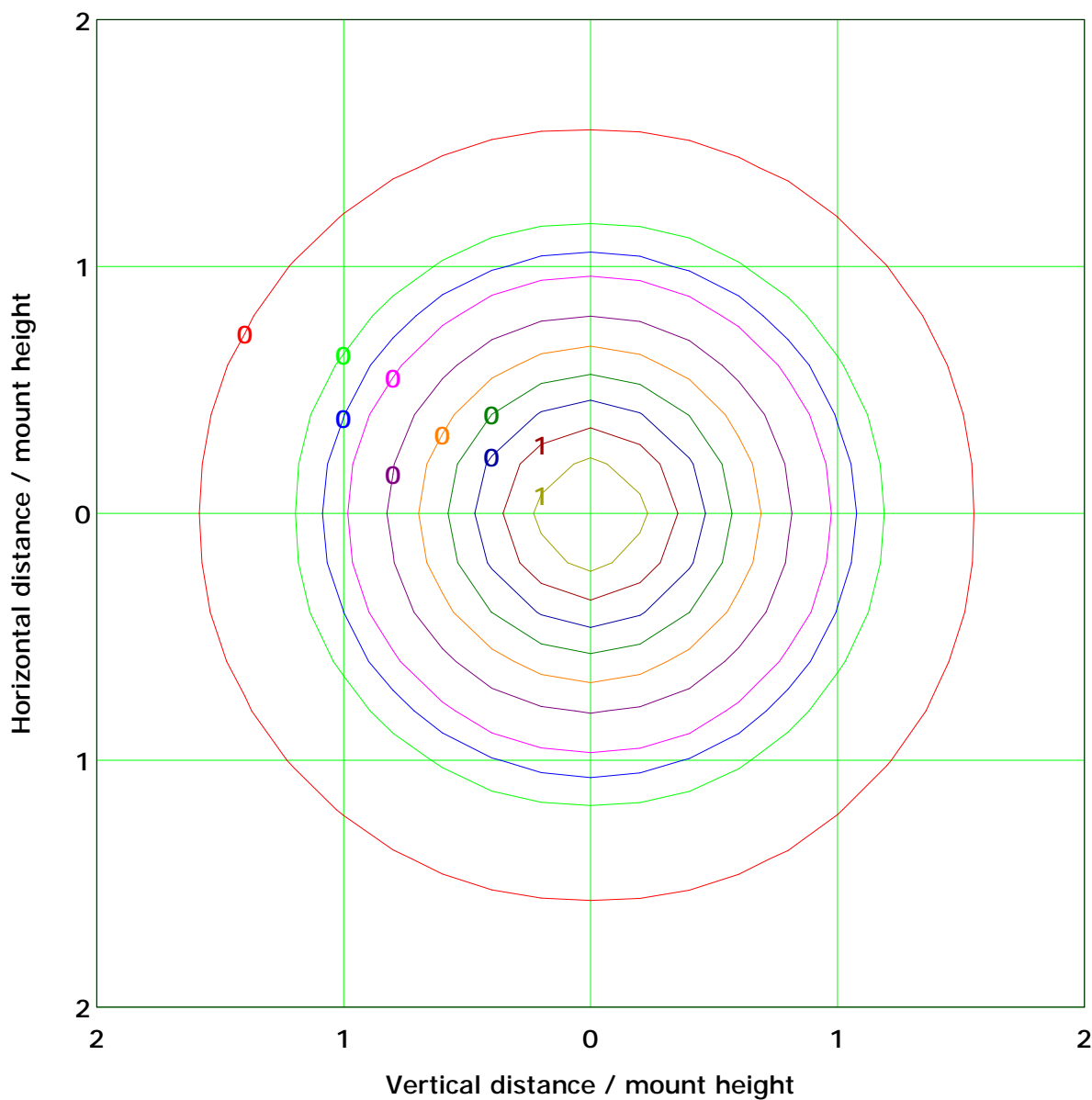
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 0.7 lx			
(10%):	0.1 lx	(20%):	0.1 lx
(25%):	0.2 lx	(30%):	0.2 lx
(40%):	0.3 lx	(50%):	0.4 lx
(60%):	0.4 lx	(70%):	0.5 lx
(80%):	0.6 lx	(90%):	0.6 lx

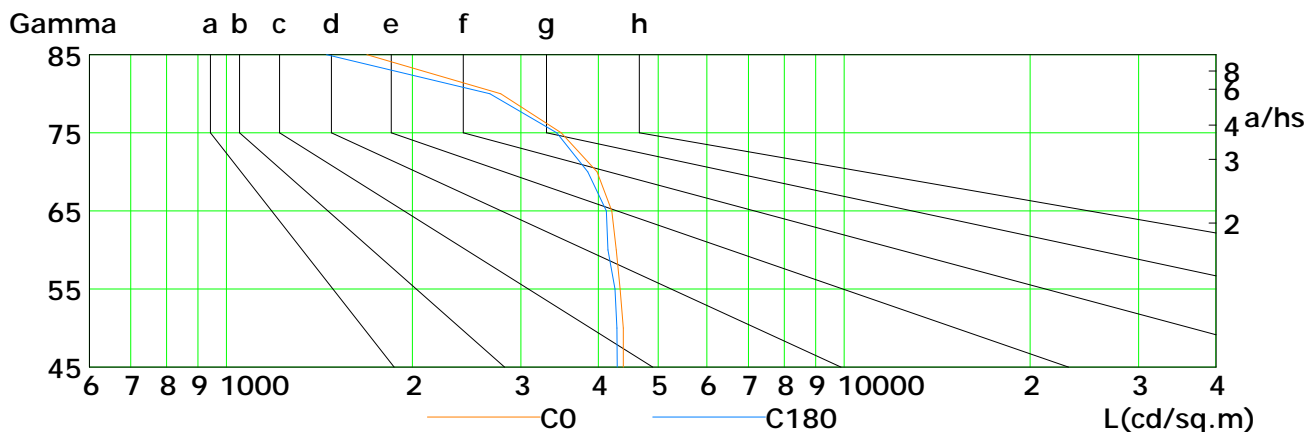
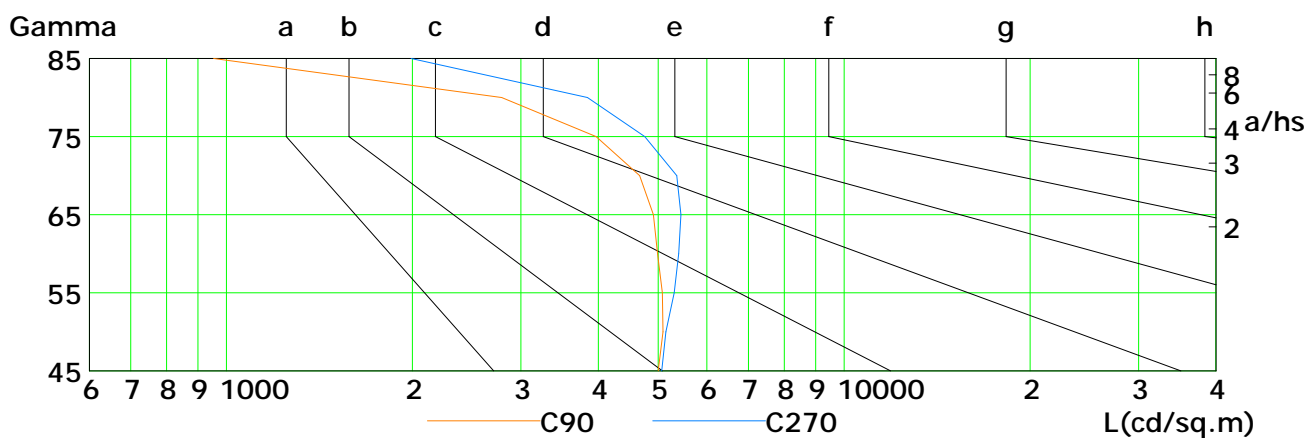
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Aaron

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



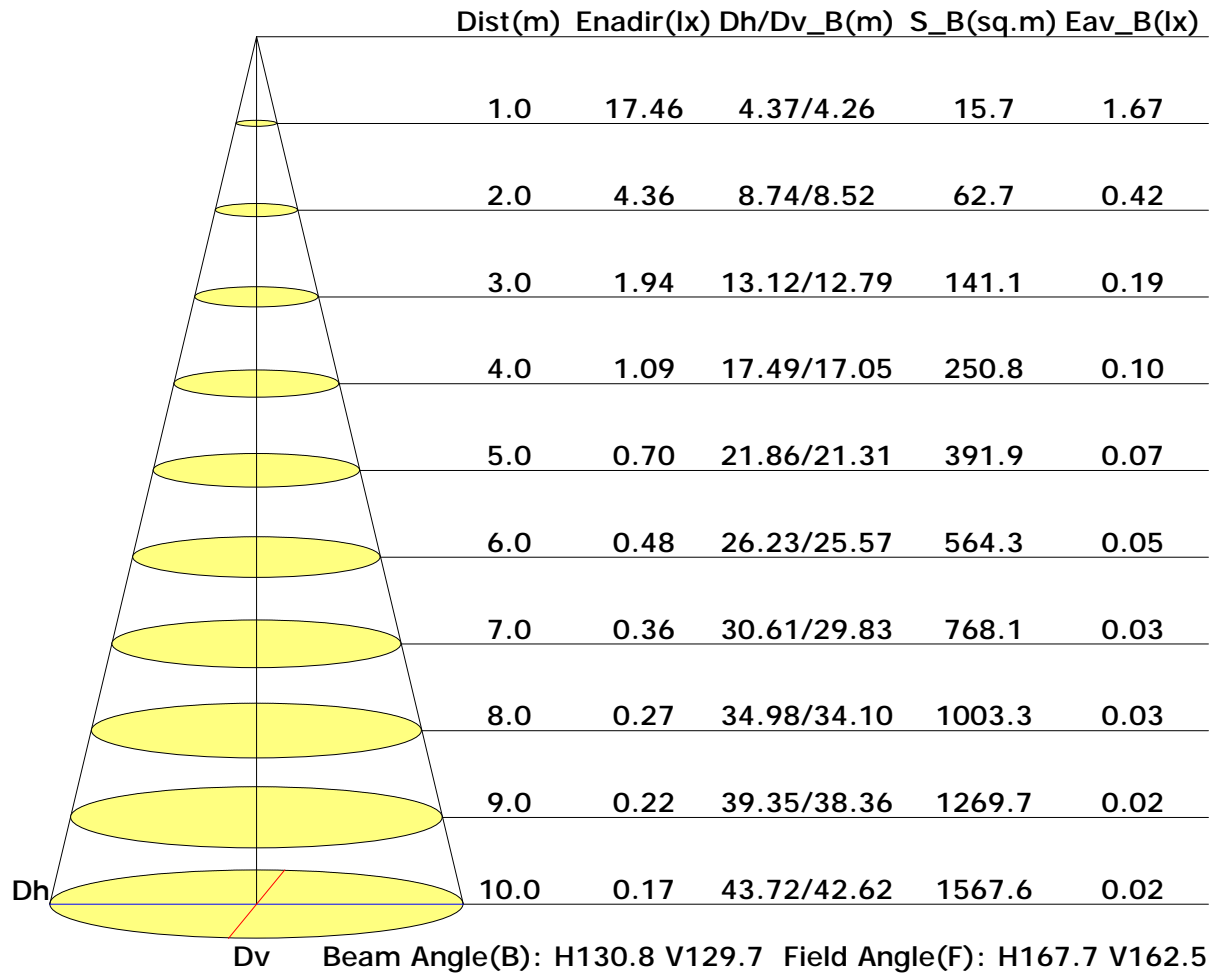
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4390	4390	4338	4279	4208	3983	3484	2780	1689
C90	5000	5095	5081	4993	4912	4667	3969	2790	953
C180	4296	4289	4261	4147	4124	3847	3425	2671	1453
C270	5067	5149	5311	5396	5443	5358	4755	3844	1991

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

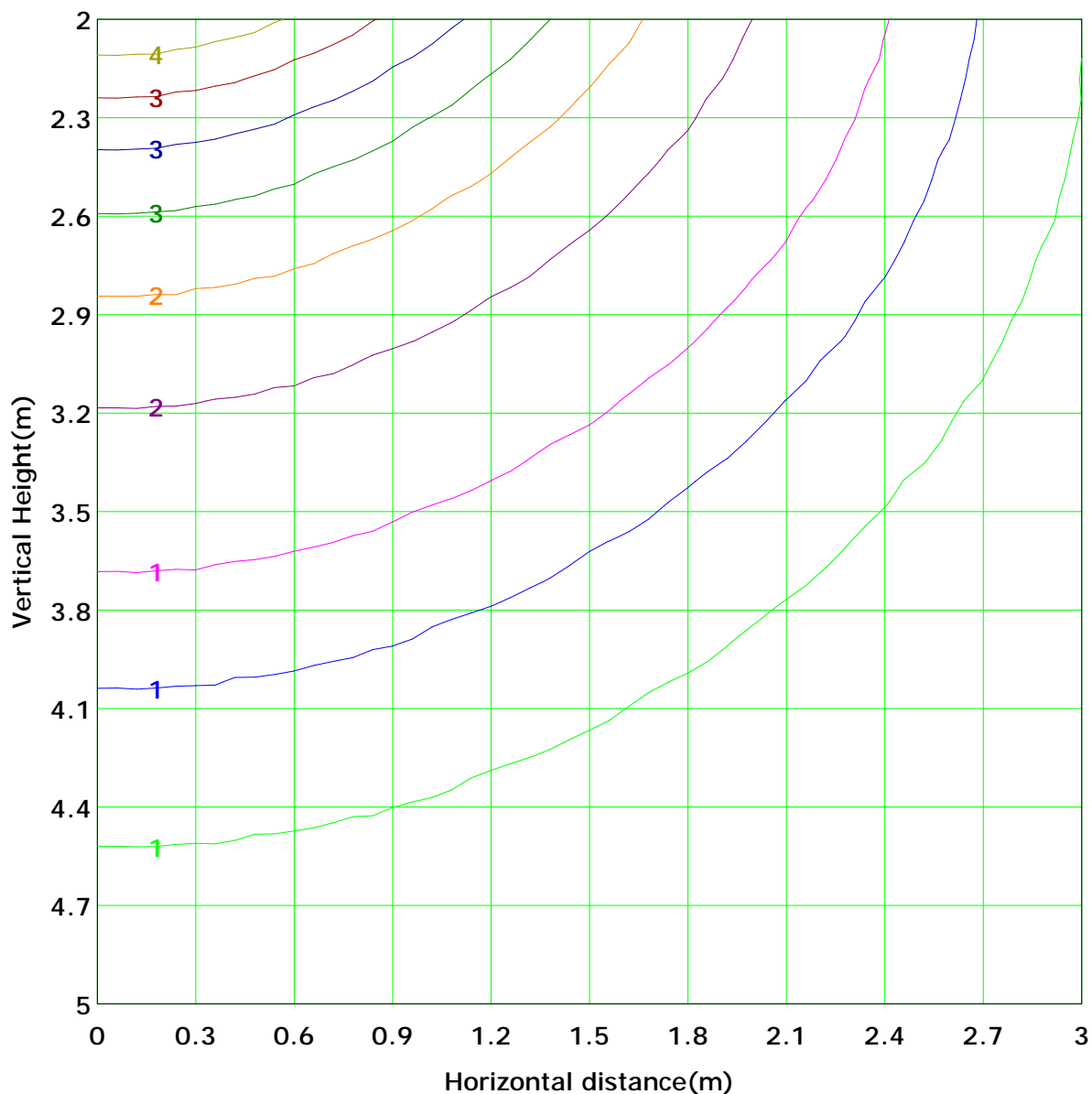
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 4.4 lx
(10%): 0.4 lx	(20%): 0.9 lx	(30%): 1.3 lx
(25%): 1.1 lx	(40%): 1.7 lx	(50%): 2.2 lx
(60%): 2.6 lx	(70%): 3.1 lx	(80%): 3.5 lx
(90%): 3.9 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:



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Unit: lm

Horizontal plane

Inspector:



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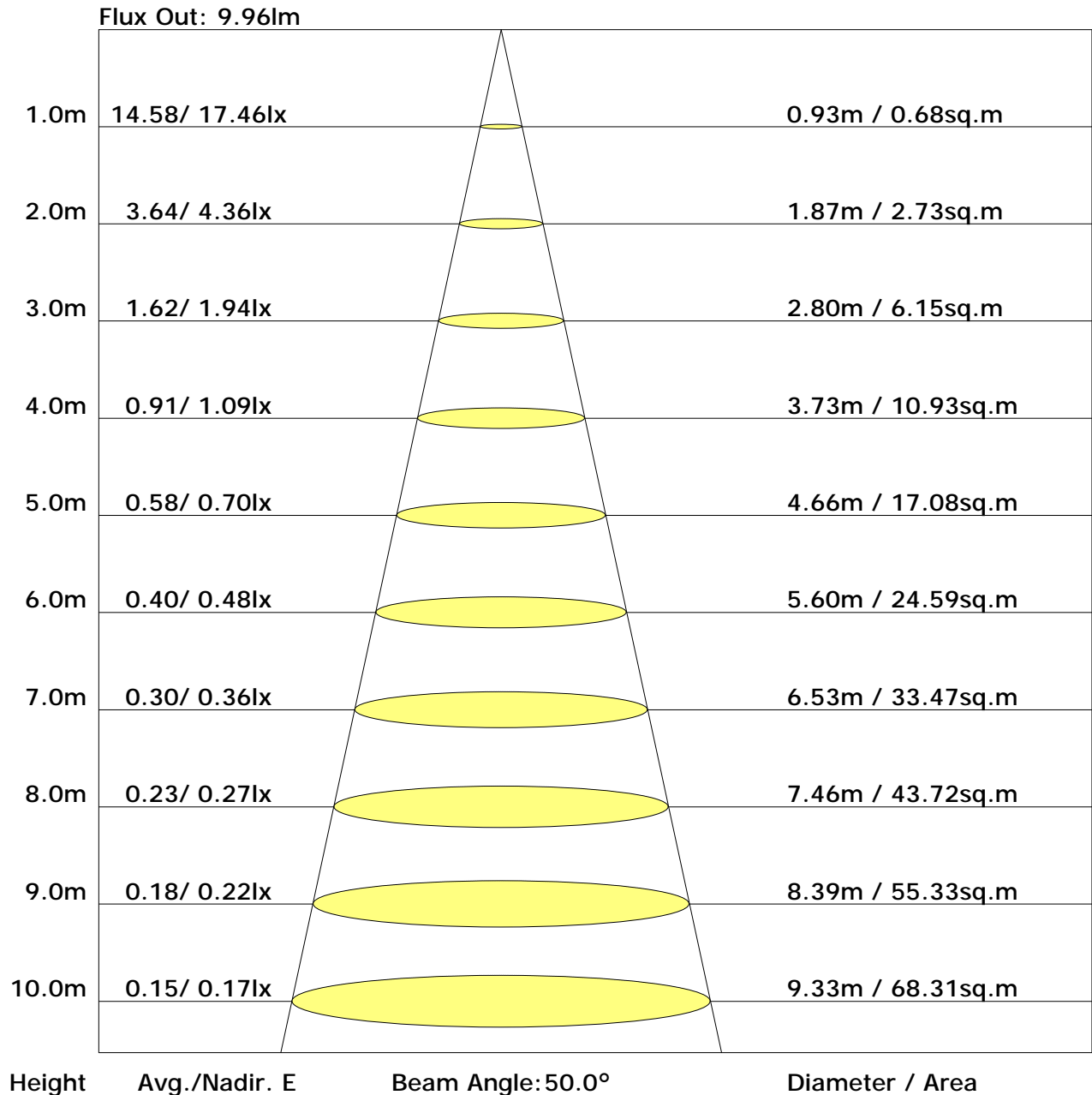
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The Average Illuminance Effective Figure



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:



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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	27.7	29.4	28.1	29.7	30.0	27.1	28.8	27.5	29.2	29.5
3H	29.9	31.4	30.2	31.7	32.1	28.9	30.4	29.3	30.8	31.2
4H	30.7	32.2	31.1	32.5	32.9	29.4	30.9	29.9	31.3	31.7
6H	31.3	32.7	31.7	33.1	33.5	29.7	31.1	30.2	31.5	31.9
8H	31.5	32.8	32.0	33.2	33.6	29.8	31.1	30.2	31.5	31.9
12H	31.7	32.9	32.1	33.3	33.7	29.8	31.0	30.2	31.4	31.9
X=4H Y=2H	28.4	29.8	28.8	30.2	30.6	27.9	29.4	28.3	29.7	30.1
3H	30.8	32.0	31.2	32.4	32.8	29.9	31.1	30.3	31.5	31.9
4H	31.7	32.8	32.2	33.3	33.7	30.6	31.7	31.0	32.1	32.6
6H	32.5	33.5	32.9	33.9	34.4	31.0	31.9	31.4	32.4	32.9
8H	32.7	33.6	33.2	34.1	34.6	31.0	31.9	31.5	32.4	32.9
12H	32.9	33.7	33.4	34.2	34.7	31.0	31.9	31.5	32.4	32.9
X=8H Y=4H	32.0	33.0	32.5	33.4	33.9	31.0	31.9	31.4	32.3	32.8
6H	32.9	33.7	33.4	34.2	34.7	31.5	32.3	32.0	32.8	33.3
8H	33.2	33.9	33.7	34.4	34.9	31.6	32.3	32.1	32.8	33.3
12H	33.5	34.1	34.0	34.6	35.1	31.7	32.3	32.2	32.8	33.4
X=12H Y=4H	32.1	32.9	32.6	33.4	33.9	31.0	31.9	31.5	32.3	32.8
6H	33.0	33.6	33.5	34.1	34.7	31.6	32.3	32.1	32.8	33.3
8H	33.3	33.9	33.8	34.4	35.0	31.8	32.4	32.3	32.9	33.5

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	0.77	0.85	0.90	0.94	0.99	1.02
	0.30		0.47	0.56	0.64	0.70	0.78	0.84	0.89	0.94	0.98
	0.20		0.41	0.50	0.58	0.64	0.73	0.79	0.84	0.90	0.95
0.50	0.50	0.20	0.54	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.98
	0.30		0.46	0.55	0.62	0.68	0.76	0.82	0.86	0.91	0.95
	0.20		0.41	0.49	0.57	0.63	0.71	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	0.86	0.91	0.94
	0.30		0.46	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.91
	0.20		0.41	0.48	0.56	0.62	0.70	0.75	0.80	0.85	0.89
0.00	0.00	0.00	0.38	0.46	0.53	0.59	0.66	0.71	0.75	0.80	0.84
<p>Rating:2W 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>											



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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	0.74	0.64	0.52	0.43	0.37	0.29	0.23	
	0.30		0.85	0.74	0.64	0.57	0.47	0.39	0.34	0.27	0.22	
	0.20		0.73	0.65	0.57	0.51	0.43	0.36	0.32	0.25	0.21	
0.50	0.50	0.20	0.98	0.83	0.71	0.62	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	0.42	0.35	0.31	0.25	0.20	
0.30	0.50	0.20	0.95	0.80	0.68	0.59	0.47	0.39	0.34	0.26	0.21	
	0.30		0.81	0.71	0.61	0.54	0.44	0.37	0.32	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	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.15	
<p>Rating:2W 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>												

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	0.20	0.20	0.21	0.22	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	0.22	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	0.18	0.18	0.19	0.19	0.20	0.20	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	0.15	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:2W 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>												