Acolyte
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Complete Integrated LED Lighting Solutions

Report No.: **Test Time: 2018/10/15 11:40**

Luminaire Property

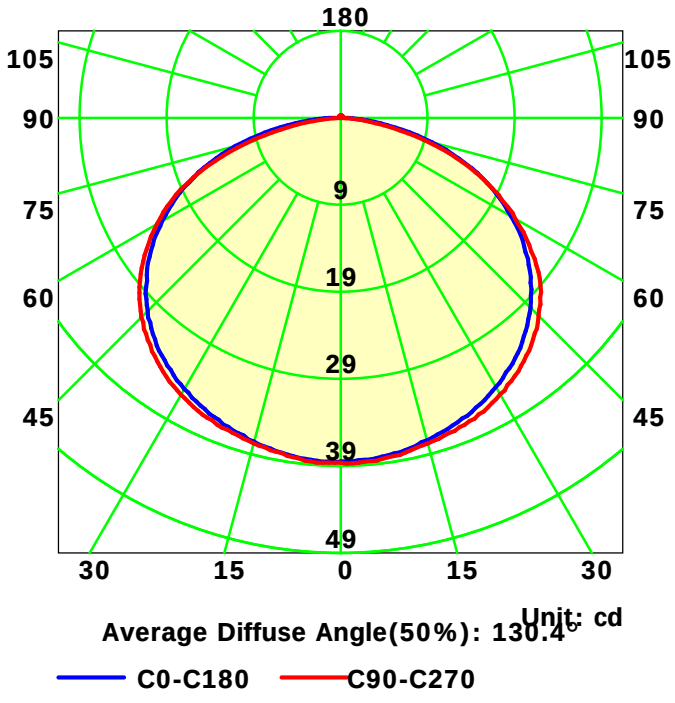
Luminaire Manufacturer:
Luminaire Category: RIBBONLYTE
Luminaire Description: RBMC20244.5B
Luminous Length (mm): 500
Luminous Width (mm): 5
Luminous Height (mm): 1
Voltage: 24.0 V
Current: 0.329 A
Power: 7.90 W
Power Factor: 1.000

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 137.4 lm
Measurement Flux: 137.4 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H130.2
Vertical Diffuse Angle(50%): V130.6
Luminaire Efficacy Rating (LER): 17
Central Intensity: 38.82 cd
Max. Intensity: 39.19 cd
Pos of Max. Intensity: H150 V1

Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 9.028 m
Temperature: 25
Humidity: 60%
Operator: Aaron
Inspector:

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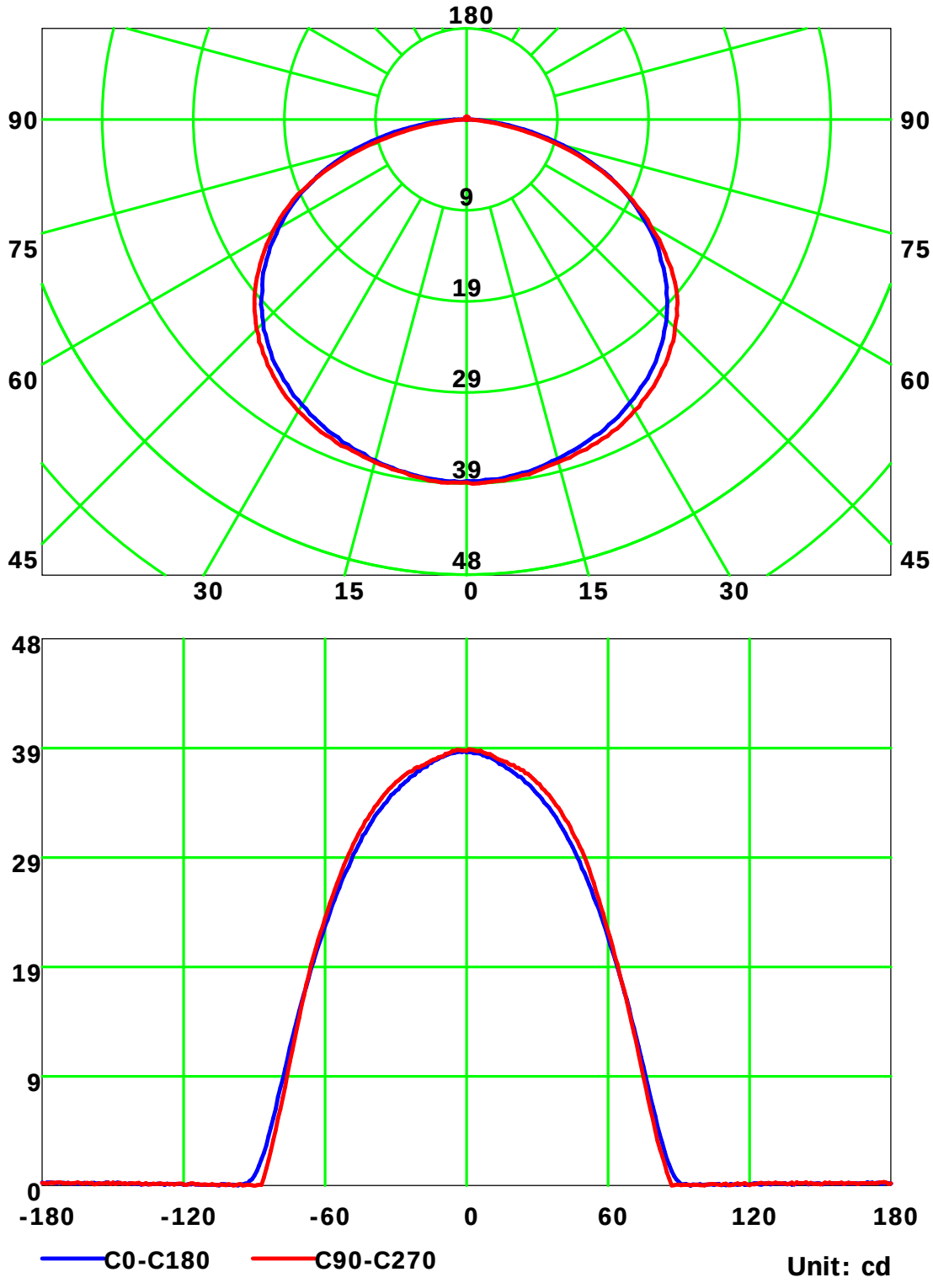
Luminous Intensity Distribution Curve



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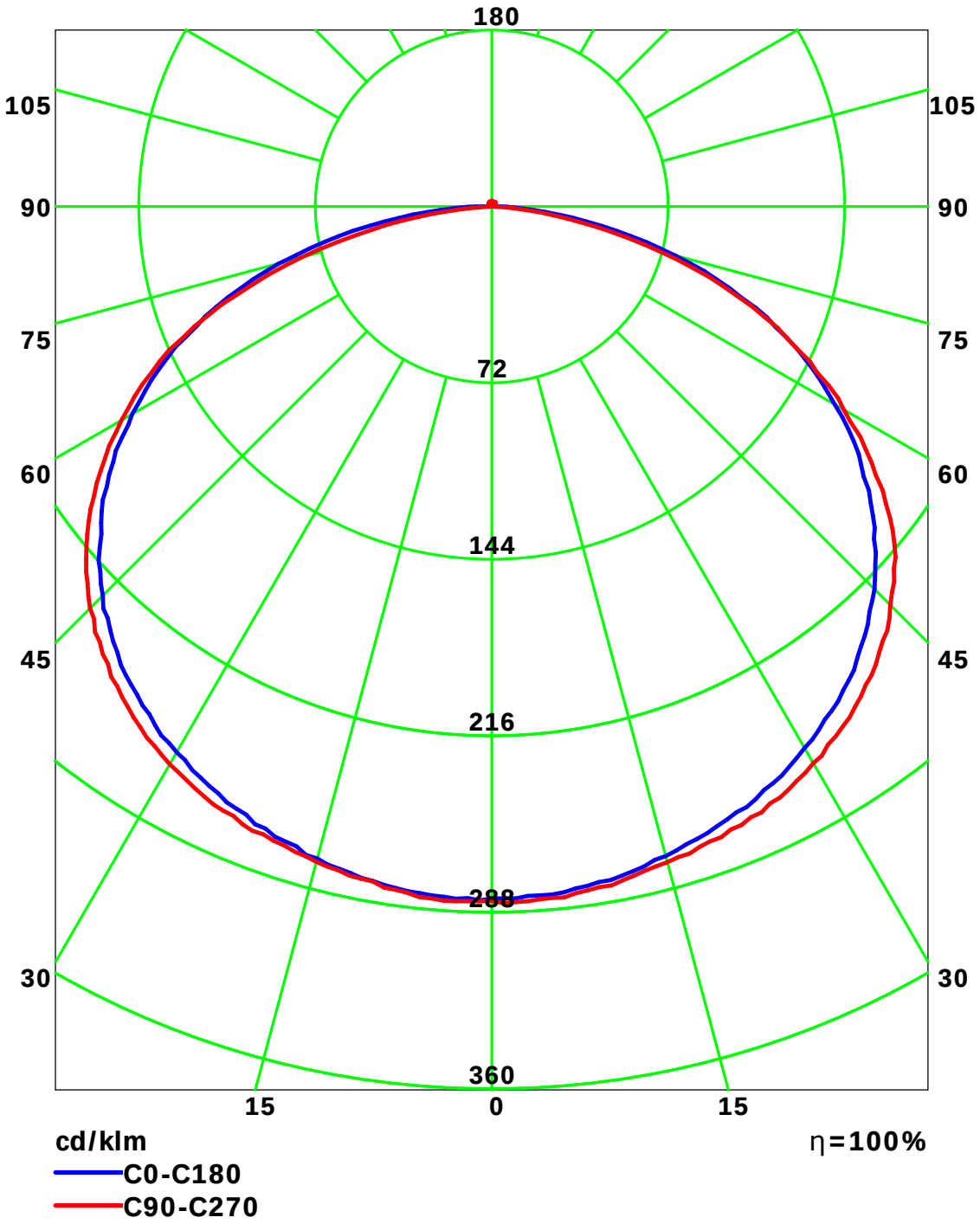
Luminous Intensity Distribution Curve(cd/klm)



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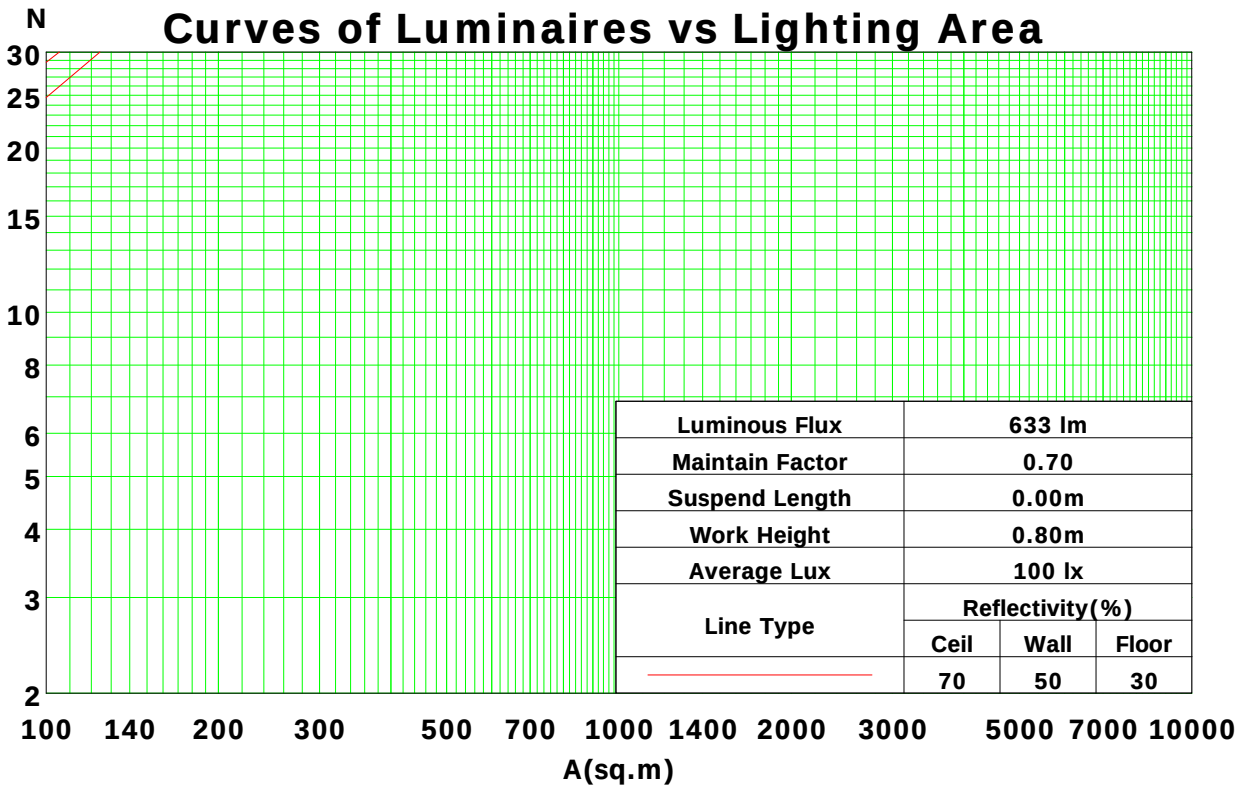
Coefficients Of Utilization - Zonal Cavity Method

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	53	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): 1.39
Spacing Criteria (Diagonal): 1.52

Curves of Luminaires vs Lighting Area



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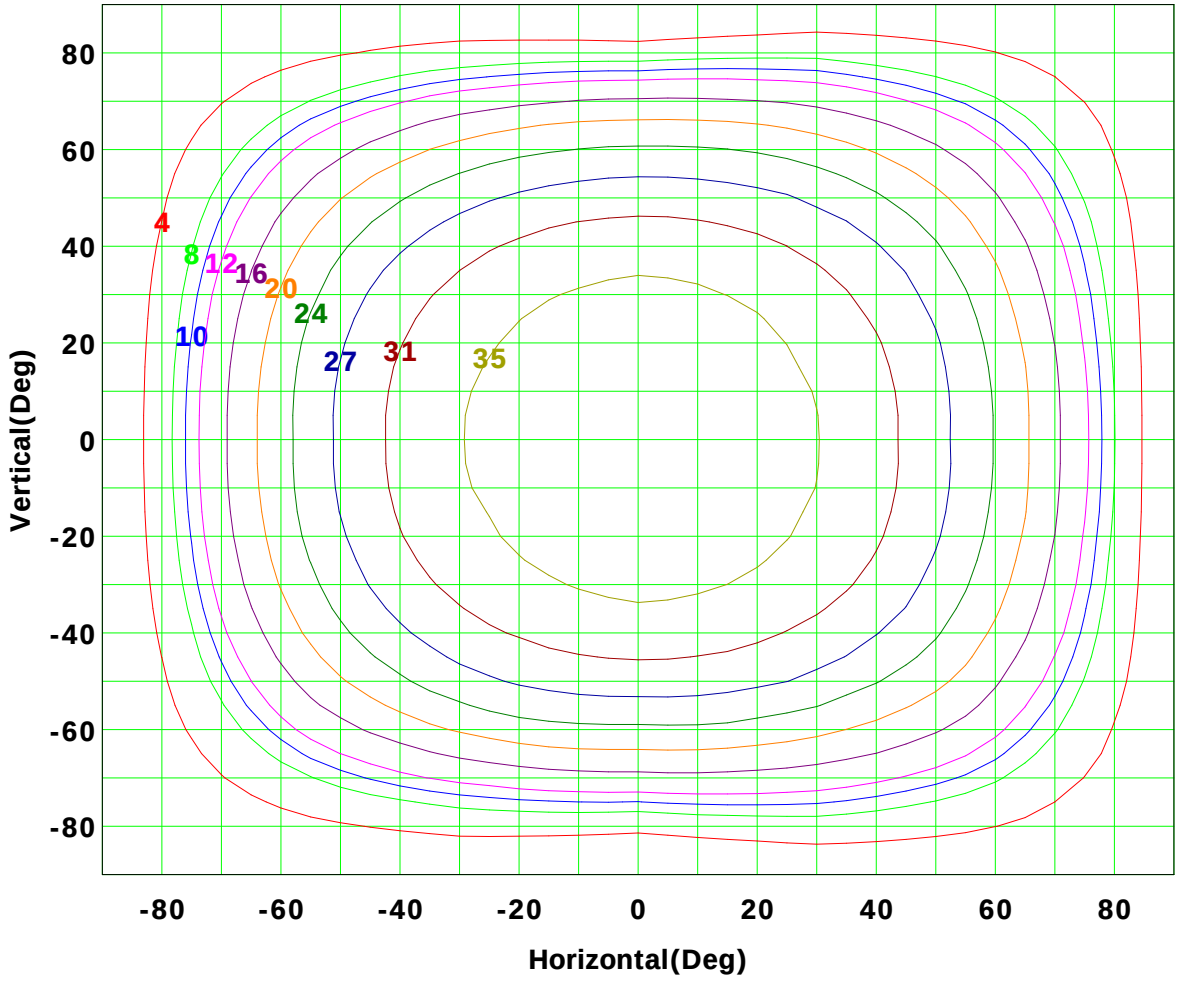
Isocandela (rectangle)



Imax (100%): 39 cd

(10%):	4 cd	(20%):	8 cd
(25%):	10 cd	(30%):	12 cd
(40%):	16 cd	(50%):	20 cd
(60%):	24 cd	(70%):	27 cd
(80%):	31 cd	(90%):	35 cd

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Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
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Distance: 9.028 m
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Inspector:

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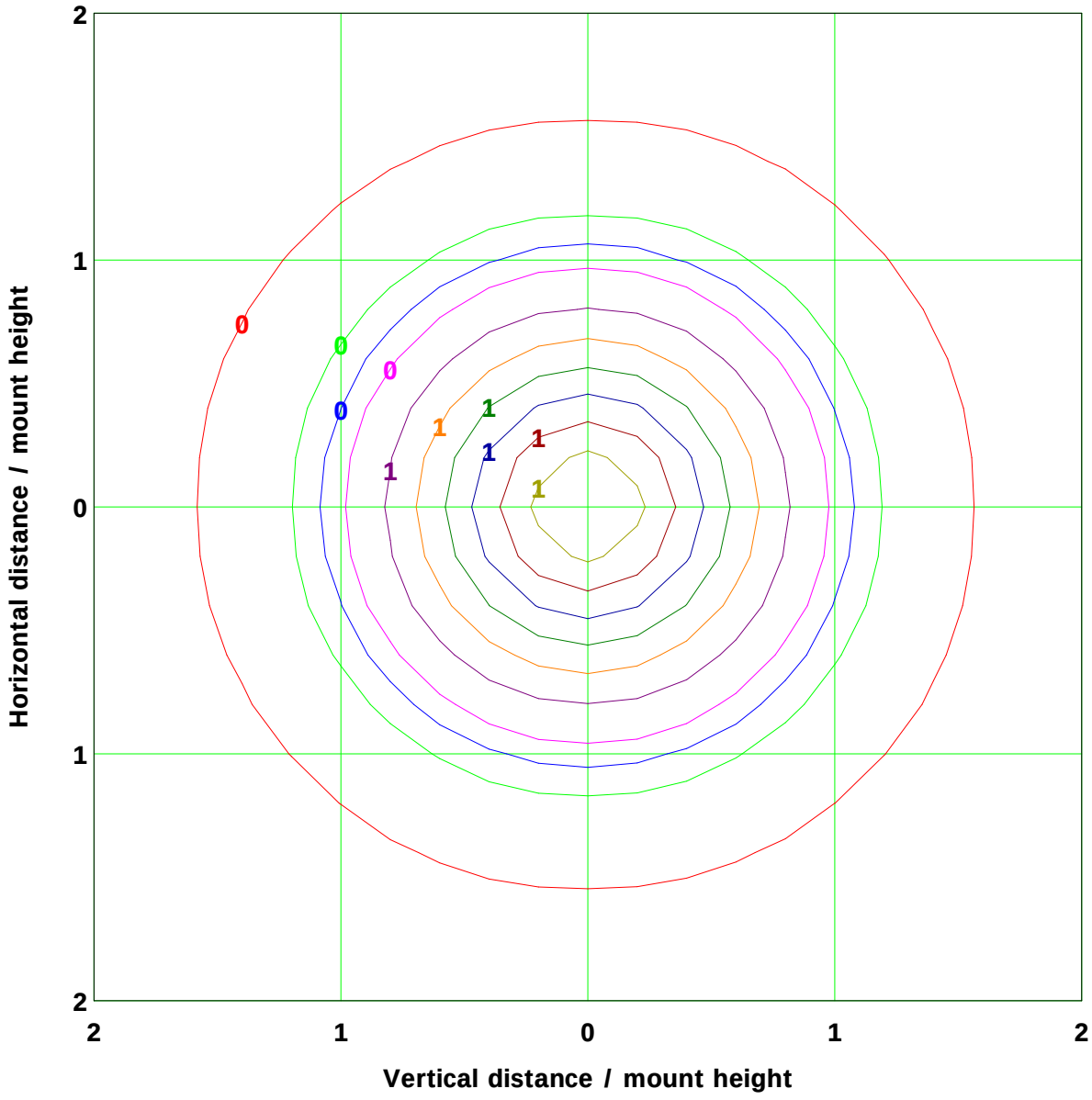
IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 1.6 lx

(10%): 0.2 lx	(20%): 0.3 lx
(25%): 0.4 lx	(30%): 0.5 lx
(40%): 0.6 lx	(50%): 0.8 lx
(60%): 0.9 lx	(70%): 1.1 lx
(80%): 1.3 lx	(90%): 1.4 lx

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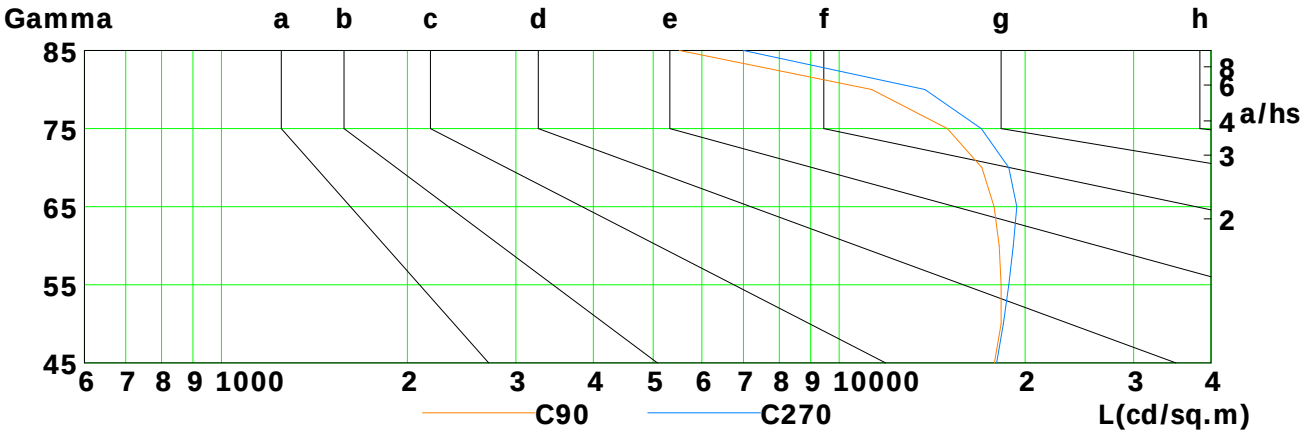
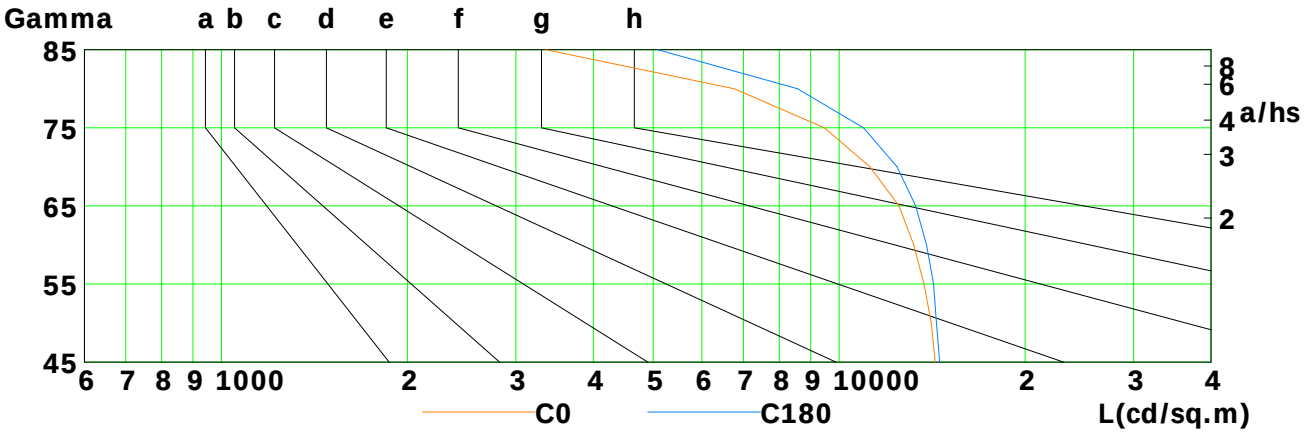
Distance: 9.028 m
Humidity: 60%
Inspector:

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	14317	14101	13729	13214	12512	11224	9469	6767	3352
C90	17851	18308	18296	18177	17831	17028	14972	11297	5519
C180	14552	14377	14223	13850	13307	12424	10956	8570	5084
C270	17998	18444	18824	19142	19395	18819	16997	13780	7000

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Distance: 9.028 m
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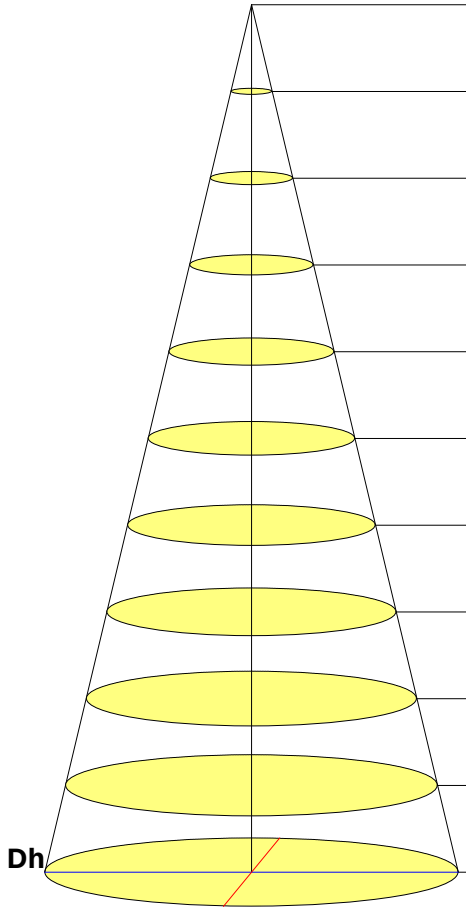
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	38.82	4.31/4.35	15.6	3.74
2.0	9.70	8.62/8.70	62.4	0.94
3.0	4.31	12.93/13.05	140.3	0.42
4.0	2.43	17.24/17.40	249.5	0.23
5.0	1.55	21.55/21.76	389.8	0.15
6.0	1.08	25.86/26.11	561.3	0.10
7.0	0.79	30.17/30.46	764.1	0.08
8.0	0.61	34.48/34.81	998.0	0.06
9.0	0.48	38.79/39.16	1263.0	0.05
10.0	0.39	43.10/43.51	1559.3	0.04

Beam Angle(B): H130.2 V130.6 Field Angle(F): H167.6 V163.5

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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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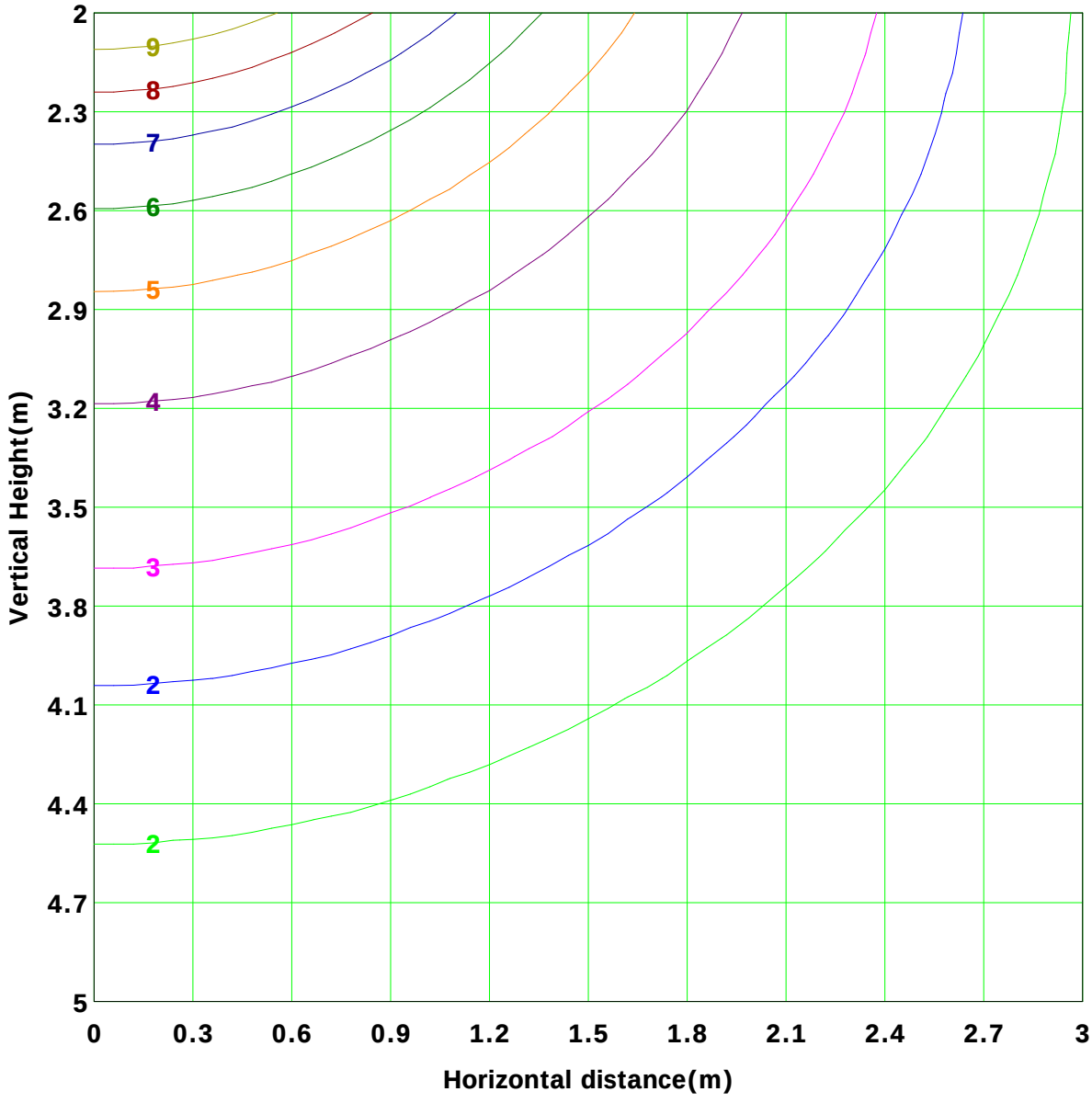
Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 9.7 lx

(10%): 1.0 lx
(20%): 1.9 lx
(25%): 2.4 lx
(30%): 2.9 lx
(40%): 3.9 lx
(50%): 4.9 lx
(60%): 5.8 lx
(70%): 6.8 lx
(80%): 7.8 lx
(90%): 8.7 lx

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Area Flux Table

Unit: lm

Vertical plane

Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.4
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	8.0
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	10.4
-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.4
-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	13.7
-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	14.4
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	14.3
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.6
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	12.1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	10.1
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.6
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
90	0.4	0.8	3.1	5.5	7.5	8.9	9.9	10.6	11.0	11.2	11.2	11.0	10.6	9.9	8.9	7.5	5.5	3.1	0.8	136	Flux(T)
Flux(E)	135	0.3	2.8	5.2	7.3	8.9	9.9	10.6	11.0	11.2	11.2	11.0	10.6	9.9	8.9	7.5	5.5	3.0	0.4	Flux(E)	

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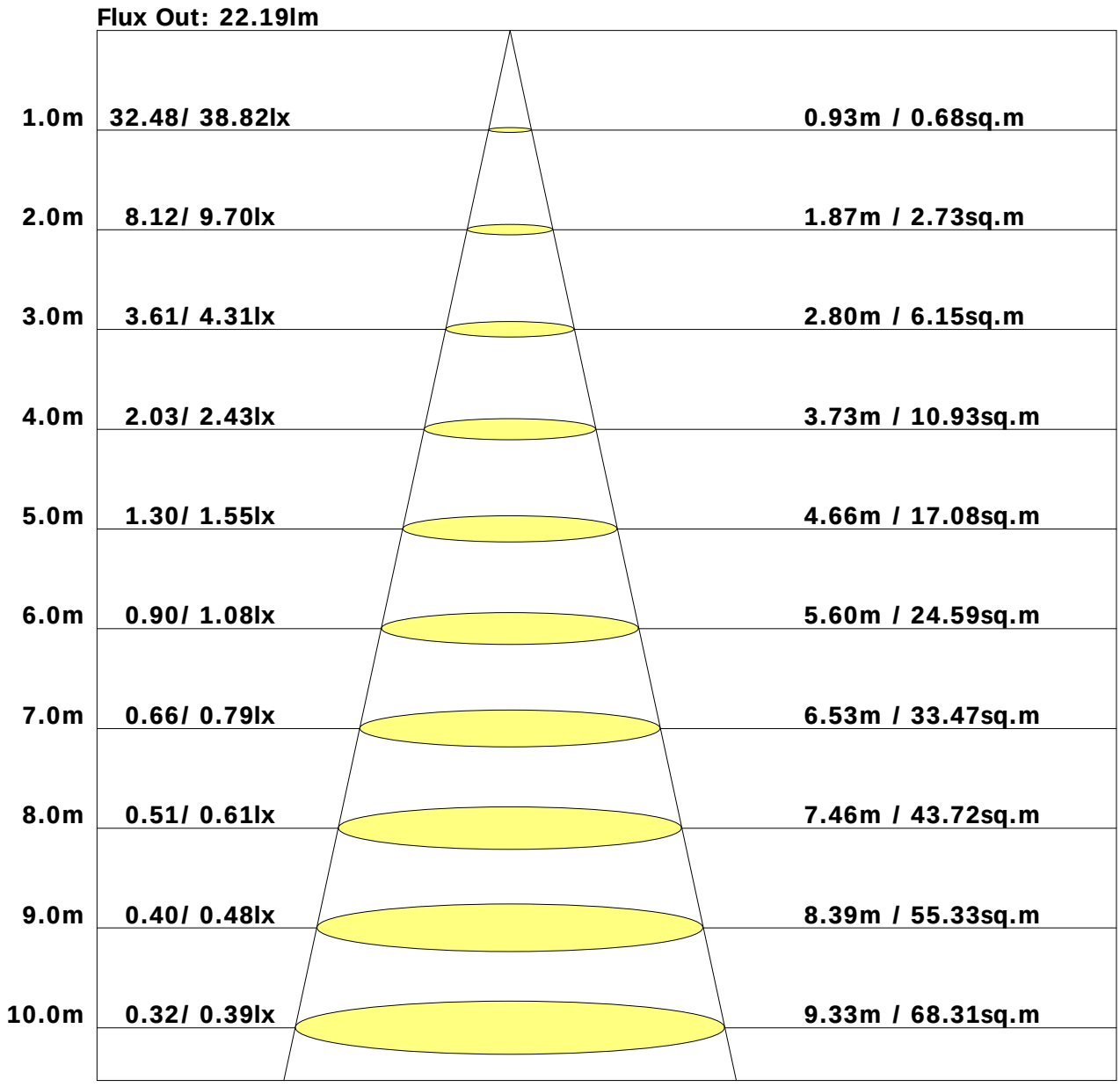
The Average Illuminance Effective Figure



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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	29.0	30.7	29.3	31.0	31.3	28.5	30.2	28.9	30.6	30.9
3H	31.0	32.6	31.4	32.9	33.3	30.3	31.8	30.7	32.2	32.5
4H	31.8	33.2	32.2	33.6	34.0	30.8	32.3	31.2	32.7	33.0
6H	32.3	33.7	32.7	34.1	34.5	31.1	32.5	31.5	32.9	33.3
8H	32.5	33.8	32.9	34.2	34.6	31.2	32.5	31.6	32.9	33.3
12H	32.6	33.8	33.0	34.2	34.7	31.2	32.4	31.6	32.8	33.3
X=4H Y=2H	29.6	31.1	30.0	31.4	31.8	29.3	30.8	29.7	31.1	31.5
3H	31.9	33.1	32.3	33.5	33.9	31.2	32.5	31.7	32.9	33.3
4H	32.7	33.9	33.2	34.3	34.7	31.9	33.0	32.3	33.5	33.9
6H	33.4	34.4	33.9	34.8	35.3	32.3	33.3	32.8	33.7	34.2
8H	33.6	34.5	34.0	35.0	35.4	32.4	33.3	32.9	33.8	34.2
12H	33.7	34.5	34.2	35.0	35.5	32.4	33.2	32.9	33.7	34.2
X=8H Y=4H	33.0	33.9	33.5	34.4	34.9	32.3	33.2	32.8	33.7	34.2
6H	33.7	34.5	34.2	35.0	35.5	32.8	33.6	33.3	34.1	34.6
8H	34.0	34.7	34.5	35.2	35.7	33.0	33.6	33.5	34.2	34.7
12H	34.2	34.8	34.7	35.3	35.8	33.0	33.6	33.5	34.1	34.7
X=12H Y=4H	33.0	33.9	33.5	34.3	34.8	32.4	33.2	32.9	33.7	34.2
6H	33.8	34.5	34.3	34.9	35.5	32.9	33.6	33.4	34.1	34.6
8H	34.1	34.7	34.6	35.2	35.7	33.1	33.7	33.6	34.2	34.8

Calculate in accordance with CIE 190:2010

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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	0.94
	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	0.87	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

Rating:8W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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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	0.41	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	0.16

Rating:8W 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	0.09	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	0.12	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

Rating:8W 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: