Acolyte
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Complete Integrated LED Lighting Solutions

Report No.: **Test Time: 2018/10/15 17:41**

Luminaire Property

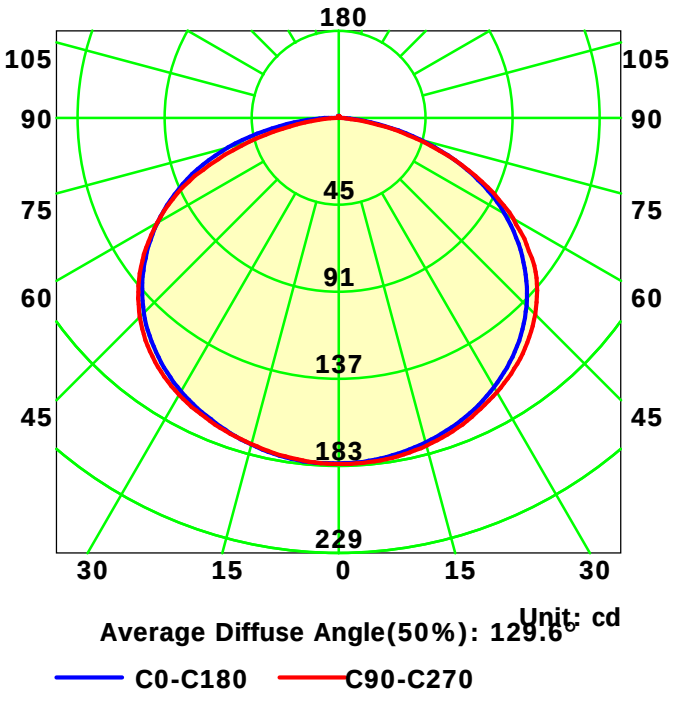
Luminaire Manufacturer:
Luminaire Category: RIBBONLYTE
Luminaire Description: RBMC20244.5G
Luminous Length (mm): 500
Luminous Width (mm): 5
Luminous Height (mm): 1
Voltage: 24.0 V
Current: 0.317 A
Power: 7.62 W
Power Factor: 1.000

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 634.9 lm
Measurement Flux: 634.9 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H129.5
Vertical Diffuse Angle(50%): V129.7
Luminaire Efficacy Rating (LER): 83
Central Intensity: 181.77 cd
Max. Intensity: 182.51 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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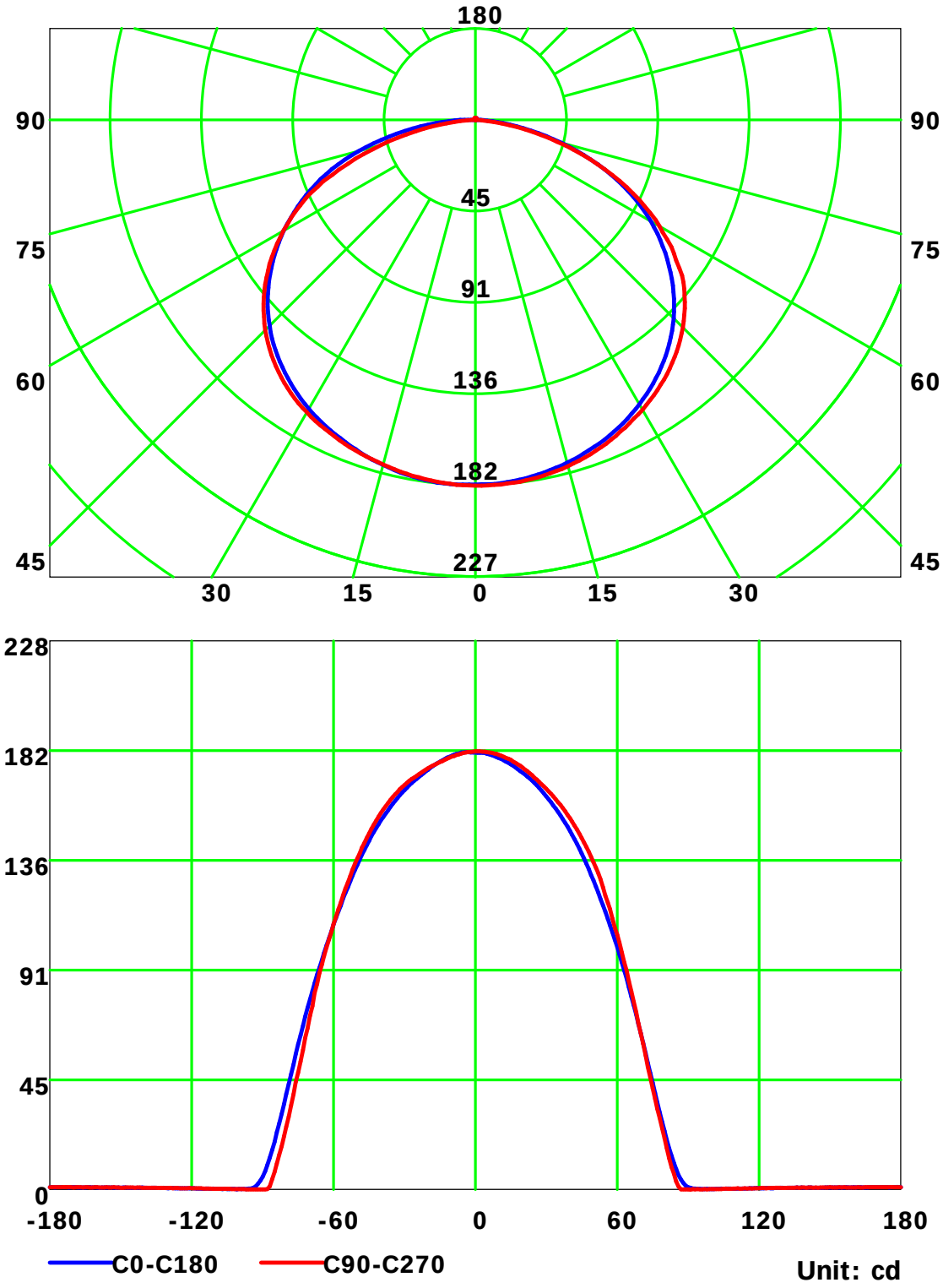
Luminous Intensity Distribution Curve



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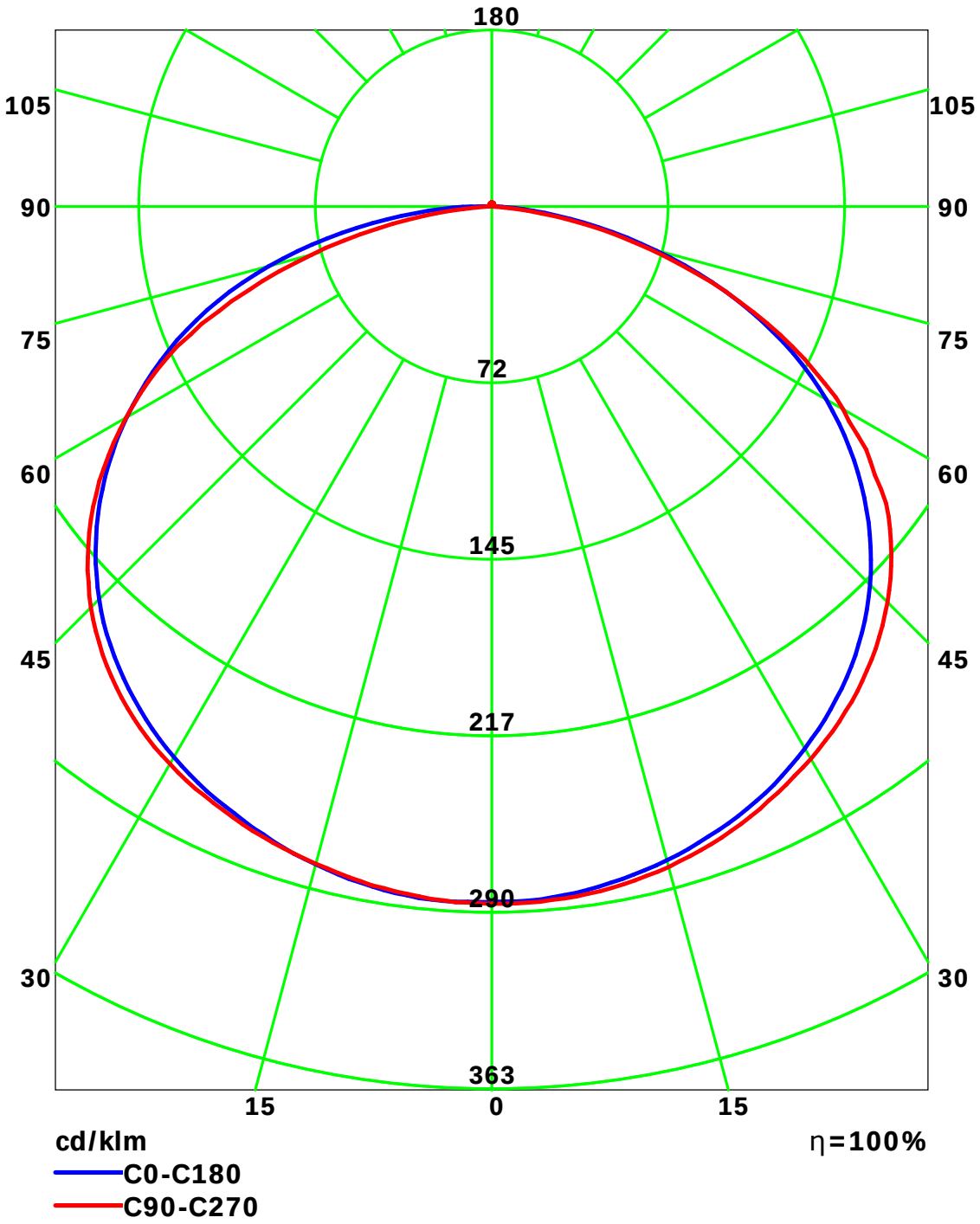
Luminous Intensity Distribution Curve(cd/klm)



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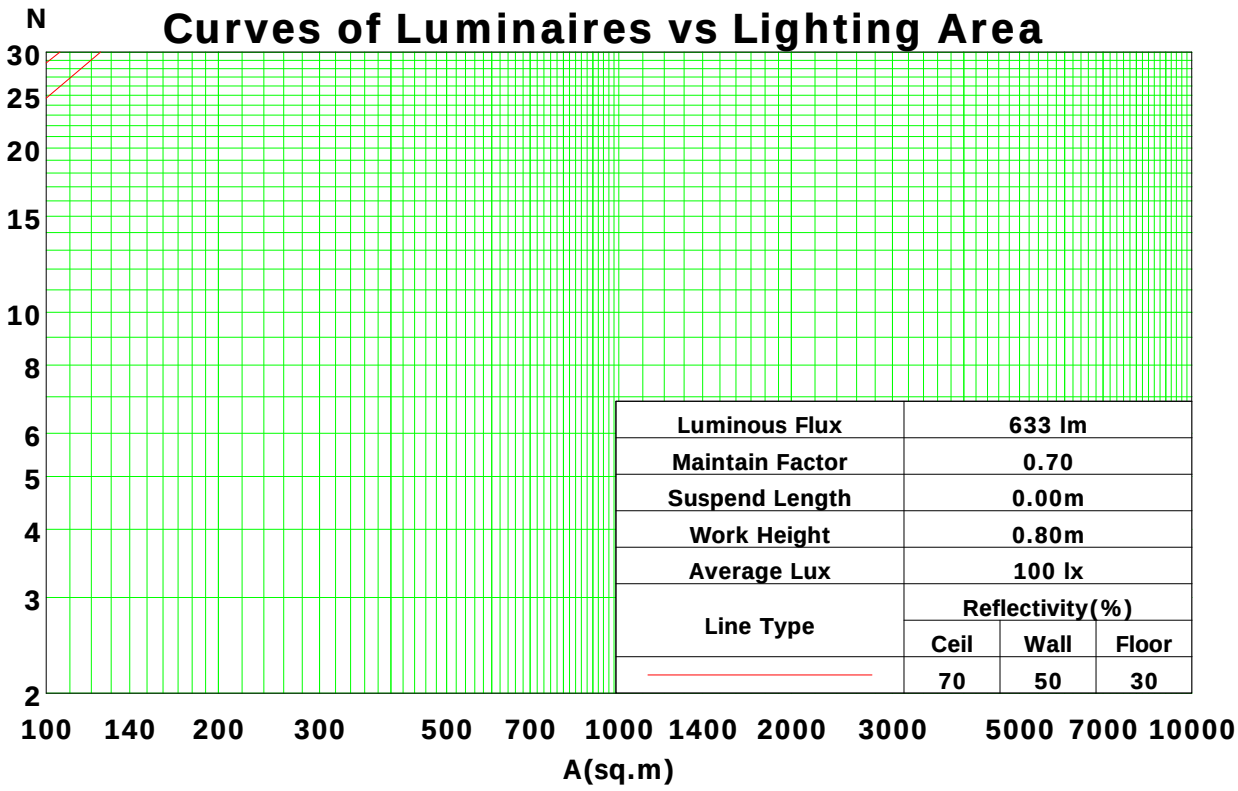
Coefficients Of Utilization - Zonal Cavity Method

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	92	89	86	88	86	83	81
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	69	66
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	66	61	57	55
4	80	68	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	43	54	47	42	52	46	42	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28	26
9	54	40	32	26	53	40	31	26	38	31	26	37	30	26	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): 1.37
Spacing Criteria (Diagonal): 1.51

Curves of Luminaires vs Lighting Area



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Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0
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Distance: 9.028 m
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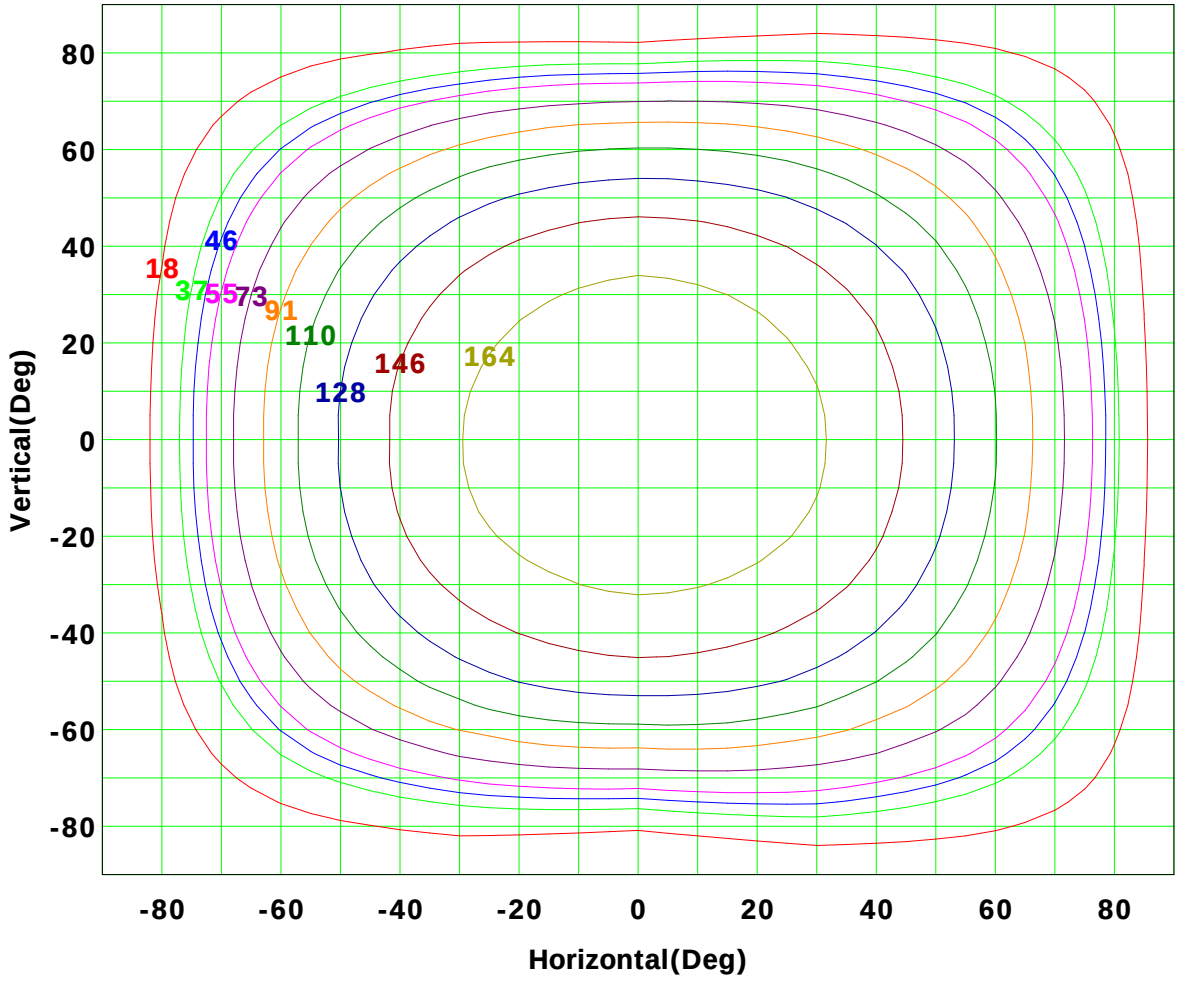
Isocandela (rectangle)



Imax (100%): 183 cd

(10%):	18 cd	(20%):	37 cd
(25%):	46 cd	(30%):	55 cd
(40%):	73 cd	(50%):	91 cd
(60%):	110 cd	(70%):	128 cd
(80%):	146 cd	(90%):	164 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:

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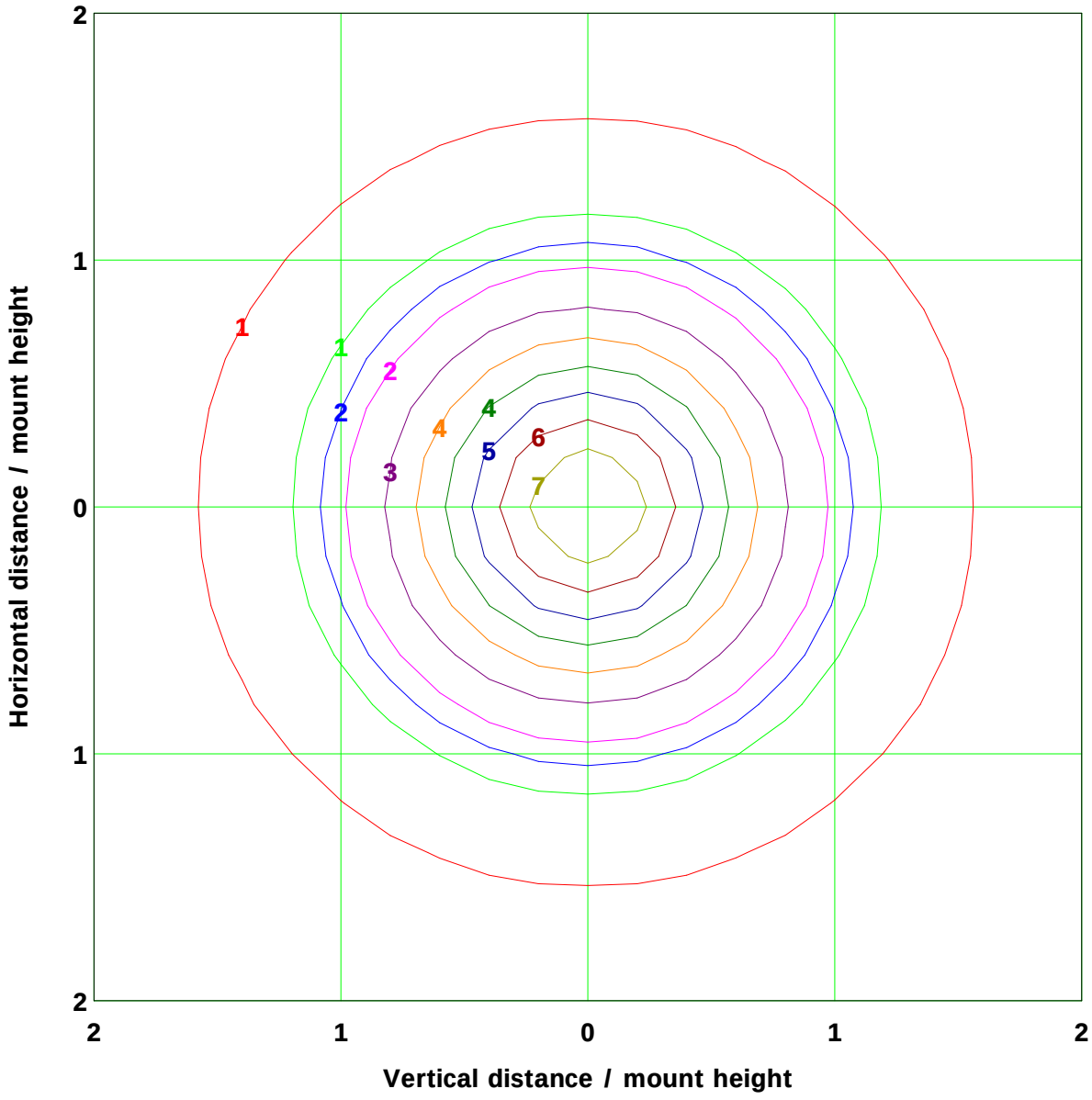
IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 7.3 lx

(10%): 0.7 lx	(20%): 1.5 lx
(25%): 1.8 lx	(30%): 2.2 lx
(40%): 2.9 lx	(50%): 3.6 lx
(60%): 4.4 lx	(70%): 5.1 lx
(80%): 5.8 lx	(90%): 6.6 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
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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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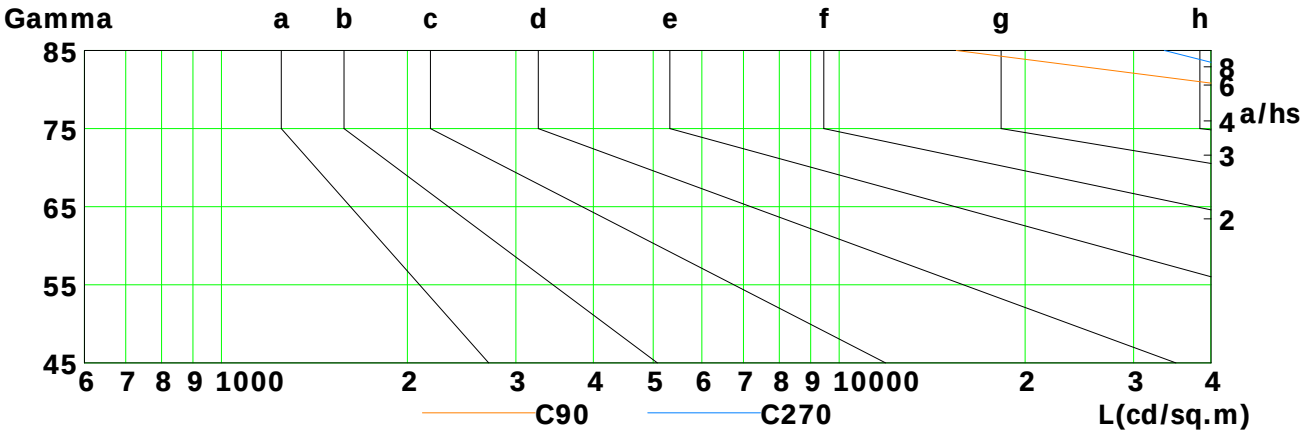
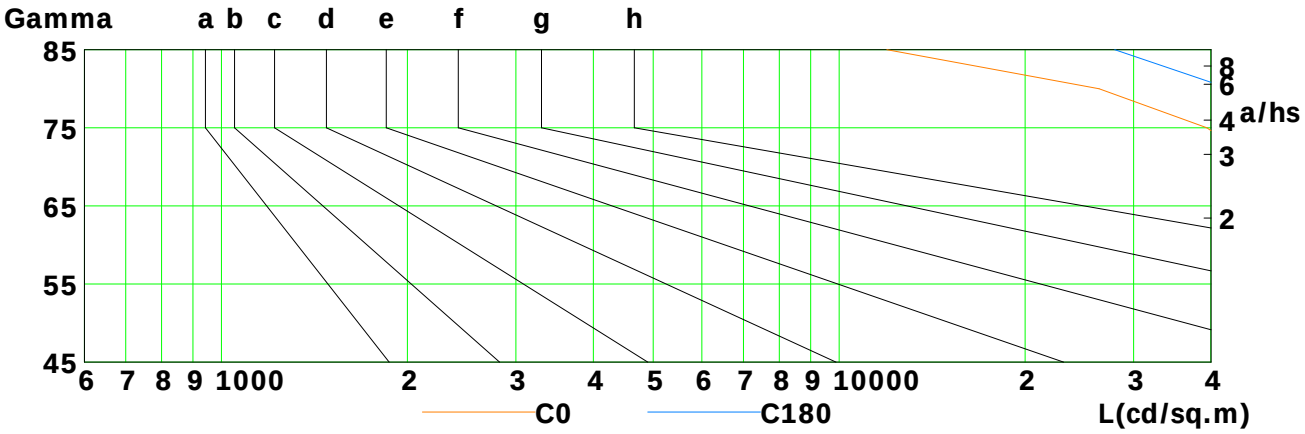
Lum Limit Curve

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	65917	64608	62701	59964	55687	49136	39398	26367	11956
C90	82572	84529	84977	84539	81728	75580	64690	48674	15480
C180	68406	67860	66959	65519	63258	59756	53522	42978	27933
C270	83645	85473	87119	88023	88278	84280	74799	59812	33607

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

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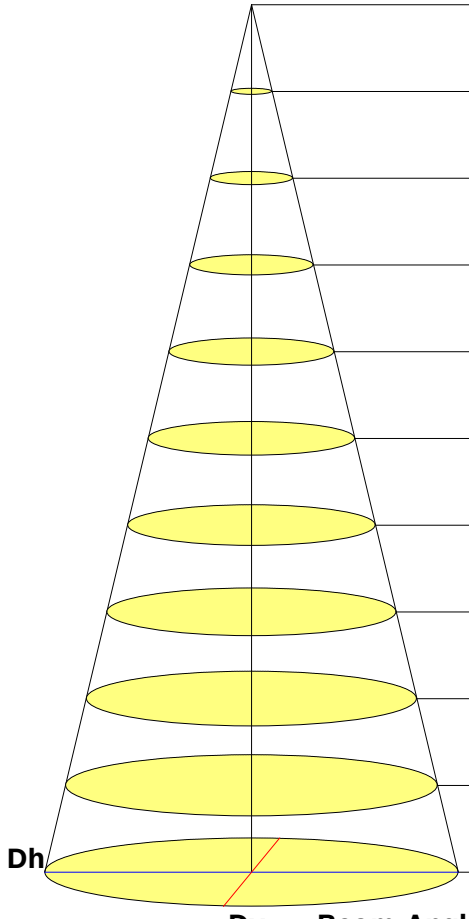
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	181.77	4.24/4.26	15.0	17.97
2.0	45.44	8.49/8.52	59.9	4.49
3.0	20.20	12.73/12.78	134.9	2.00
4.0	11.36	16.98/17.04	239.8	1.12
5.0	7.27	21.22/21.30	374.7	0.72
6.0	5.05	25.47/25.56	539.5	0.50
7.0	3.71	29.71/29.82	734.3	0.37
8.0	2.84	33.95/34.08	959.2	0.28
9.0	2.24	38.20/38.34	1213.9	0.22
10.0	1.82	42.44/42.60	1498.7	0.18

Beam Angle(B): H129.5 V129.7 Field Angle(F): H167.3 V162.7

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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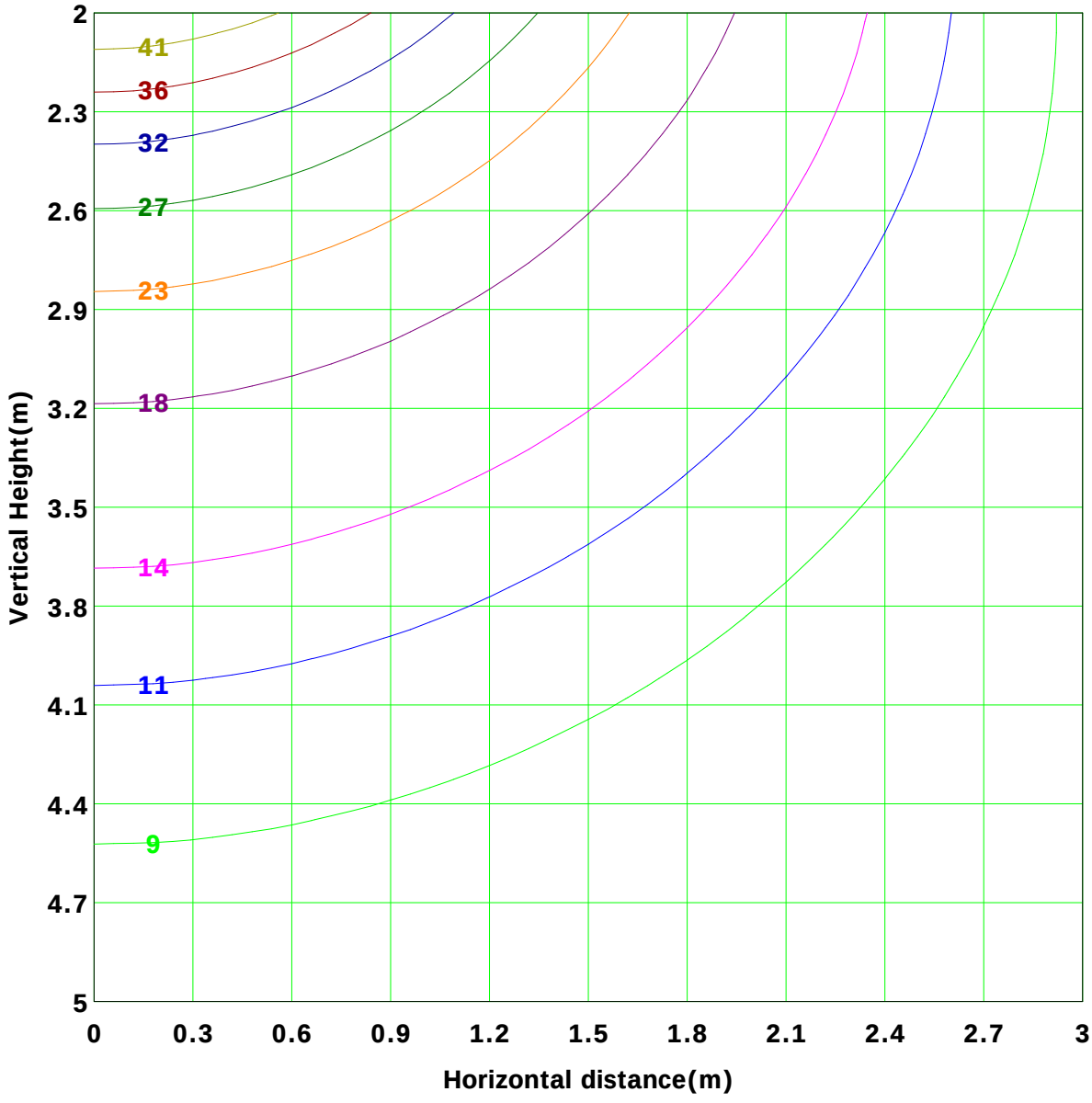
Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 45.4 lx

(10%): 4.5 lx
(20%): 9.1 lx
(25%): 11.4 lx
(30%): 13.6 lx
(40%): 18.2 lx
(50%): 22.7 lx
(60%): 27.3 lx
(70%): 31.8 lx
(80%): 36.4 lx
(90%): 40.9 lx

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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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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	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.9	0.6
-90	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	5.6	5.3
-80	0.1	0.3	0.6	0.7	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.7	0.5	0.3	0.1	0.1	14.5	14.2
-70	0.2	0.6	1.0	1.3	1.6	1.8	2.0	2.1	2.2	2.2	2.1	2.0	1.9	1.6	1.4	1.0	0.6	0.2	0.2	25.8	25.4
-60	0.3	0.9	1.5	2.0	2.4	2.7	2.9	3.1	3.1	3.1	3.1	2.9	2.7	2.4	2.0	1.5	0.9	0.3	0.3	37.7	37.4
-50	0.4	1.1	2.0	2.7	3.2	3.5	3.8	3.9	4.0	4.0	4.0	3.8	3.5	3.2	2.7	2.0	1.1	0.4	0.4	48.9	48.5
-40	0.4	1.4	2.4	3.2	3.8	4.2	4.5	4.6	4.7	4.7	4.7	4.5	4.2	3.8	3.2	2.4	1.3	0.4	0.4	57.9	57.6
-30	0.4	1.5	2.7	3.6	4.2	4.7	4.9	5.1	5.2	5.2	5.2	4.9	4.7	4.2	3.5	2.5	1.4	0.3	0.3	64.1	63.8
-20	0.3	1.5	2.8	3.8	4.5	4.9	5.2	5.4	5.5	5.5	5.5	5.2	4.9	4.4	3.7	2.6	1.3	0.2	0.2	67.1	66.8
-10	0.3	1.5	2.8	3.8	4.5	4.9	5.2	5.4	5.5	5.5	5.5	5.2	4.9	4.4	3.7	2.6	1.3	0.2	0.2	66.8	66.5
0	0.3	1.4	2.6	3.5	4.2	4.6	4.9	5.1	5.2	5.2	5.1	4.9	4.6	4.1	3.5	2.5	1.3	0.3	0.3	63.2	62.8
10	0.3	1.2	2.3	3.1	3.7	4.1	4.4	4.6	4.6	4.6	4.6	4.4	4.1	3.7	3.1	2.2	1.1	0.3	0.3	56.4	56.0
20	0.3	0.9	1.8	2.5	3.1	3.4	3.7	3.8	3.9	3.9	3.9	3.7	3.4	3.0	2.5	1.7	0.9	0.3	0.3	46.8	46.4
30	0.2	0.7	1.3	1.8	2.2	2.6	2.8	2.9	3.0	3.0	3.0	2.8	2.6	2.3	1.8	1.3	0.7	0.2	0.2	35.2	34.8
40	0.1	0.4	0.8	1.2	1.5	1.7	1.9	2.0	2.0	2.0	2.0	1.9	1.7	1.5	1.2	0.8	0.4	0.1	0.1	23.0	22.6
50	0.1	0.2	0.4	0.6	0.7	0.9	1.0	1.1	1.1	1.1	1.1	1.0	0.9	0.7	0.6	0.4	0.2	0.1	0.1	11.9	11.5
60	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	3.9	3.4
70	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.4	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	0.0	0.0
90	3.9	13.7	25.1	34.3	41.2	46.0	49.2	51.1	52.2	52.2	51.2	49.0	45.6	40.8	33.8	24.1	13.0	3.7	630		
Flux(T)	1.5	13.3	25.0	34.2	41.1	46.0	49.1	51.1	52.1	52.2	51.2	49.0	45.6	40.7	33.7	24.0	12.6	1.2			
Flux(E)																					

C Plane (°):0.0-360.0: 30.0
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Inspector:

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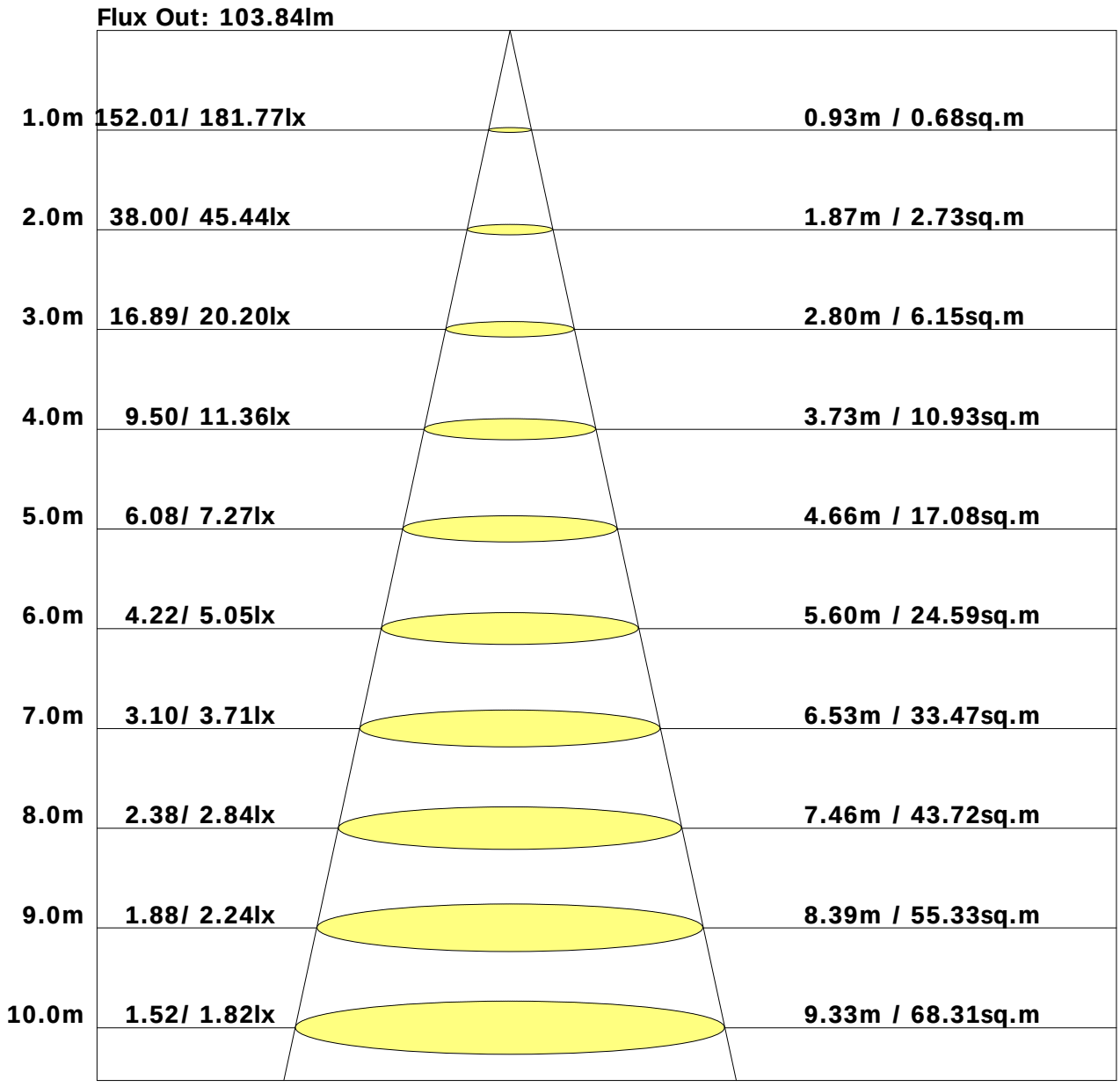
The Average Illuminance Effective Figure



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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	28.8	30.5	29.2	30.9	31.2	28.6	30.3	29.0	30.6	30.9
3H	30.8	32.3	31.2	32.7	33.1	30.3	31.8	30.6	32.1	32.5
4H	31.5	32.9	31.9	33.3	33.7	30.8	32.2	31.2	32.6	33.0
6H	31.9	33.3	32.4	33.7	34.1	31.0	32.4	31.4	32.8	33.2
8H	32.0	33.3	32.5	33.7	34.2	31.1	32.4	31.5	32.8	33.2
12H	32.1	33.4	32.5	33.7	34.2	31.1	32.3	31.5	32.7	33.1
X=4H Y=2H	29.5	30.9	29.9	31.3	31.7	29.3	30.8	29.7	31.1	31.5
3H	31.6	32.9	32.1	33.3	33.7	31.2	32.4	31.6	32.9	33.3
4H	32.4	33.6	32.9	34.0	34.4	31.8	33.0	32.3	33.4	33.8
6H	33.0	34.0	33.5	34.4	34.9	32.2	33.2	32.7	33.7	34.1
8H	33.1	34.1	33.6	34.5	35.0	32.3	33.2	32.8	33.7	34.1
12H	33.2	34.1	33.7	34.5	35.0	32.3	33.1	32.8	33.6	34.1
X=8H Y=4H	32.7	33.6	33.2	34.1	34.5	32.2	33.2	32.7	33.6	34.1
6H	33.3	34.1	33.8	34.6	35.1	32.7	33.5	33.2	34.0	34.5
8H	33.5	34.2	34.0	34.7	35.2	32.9	33.5	33.4	34.1	34.6
12H	33.7	34.3	34.2	34.8	35.3	32.9	33.5	33.4	34.0	34.6
X=12H Y=4H	32.7	33.5	33.2	34.0	34.5	32.3	33.1	32.8	33.6	34.1
6H	33.4	34.1	33.9	34.5	35.1	32.8	33.5	33.4	34.0	34.5
8H	33.6	34.2	34.1	34.7	35.3	33.0	33.6	33.5	34.1	34.7

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
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Test Type: TYPE C
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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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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	0.56	0.64	0.72	0.78	0.85	0.90	0.94	0.99	1.02
	0.30		0.48	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	0.70	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	0.58	0.63	0.72	0.78	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	0.57	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	0.67	0.72	0.76	0.81	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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Test Lab:
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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	0.86	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	0.64	0.57	0.51	0.42	0.36	0.32	0.25	0.21
0.50	0.50	0.20	0.97	0.83	0.70	0.61	0.49	0.44	0.35	0.27	0.22
	0.30		0.82	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.71	0.64	0.56	0.50	0.41	0.35	0.31	0.24	0.20
0.30	0.50	0.20	0.94	0.80	0.67	0.59	0.47	0.39	0.33	0.26	0.21
	0.30		0.81	0.70	0.60	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: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	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	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	0.20	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	0.12	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: