ACOLYTE
www.GENLEDBrands.com/Acolyte
Tel: +1 212 629 6830 **(USA)**
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Report No.: 01 Test Time: 2016/9/7 11:36

Luminaire Property

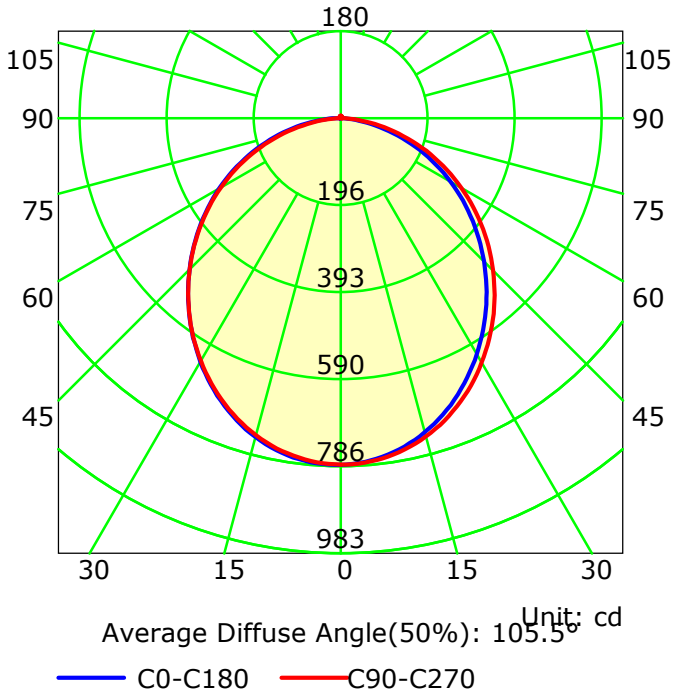
Luminaire Manufacturer:
Luminaire Category: Linearlyte
Luminaire Description: PS3 3500K HO
Luminous Length (mm): 600 Luminous Width (mm):
Luminous Height (mm): Voltage: 219.9 V
Current: 0.115 A Power: 24.26 W
Power Factor: 0.963

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 2092.2 lm
Measurement Flux: 2092.2 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H104.2
Vertical Diffuse Angle(50%): V106.7
Luminaire Efficacy Rating (LER): 86 Central Intensity: 783.45 cd
Max. Intensity: 783.66 cd Pos of Max. Intensity: H180 V1

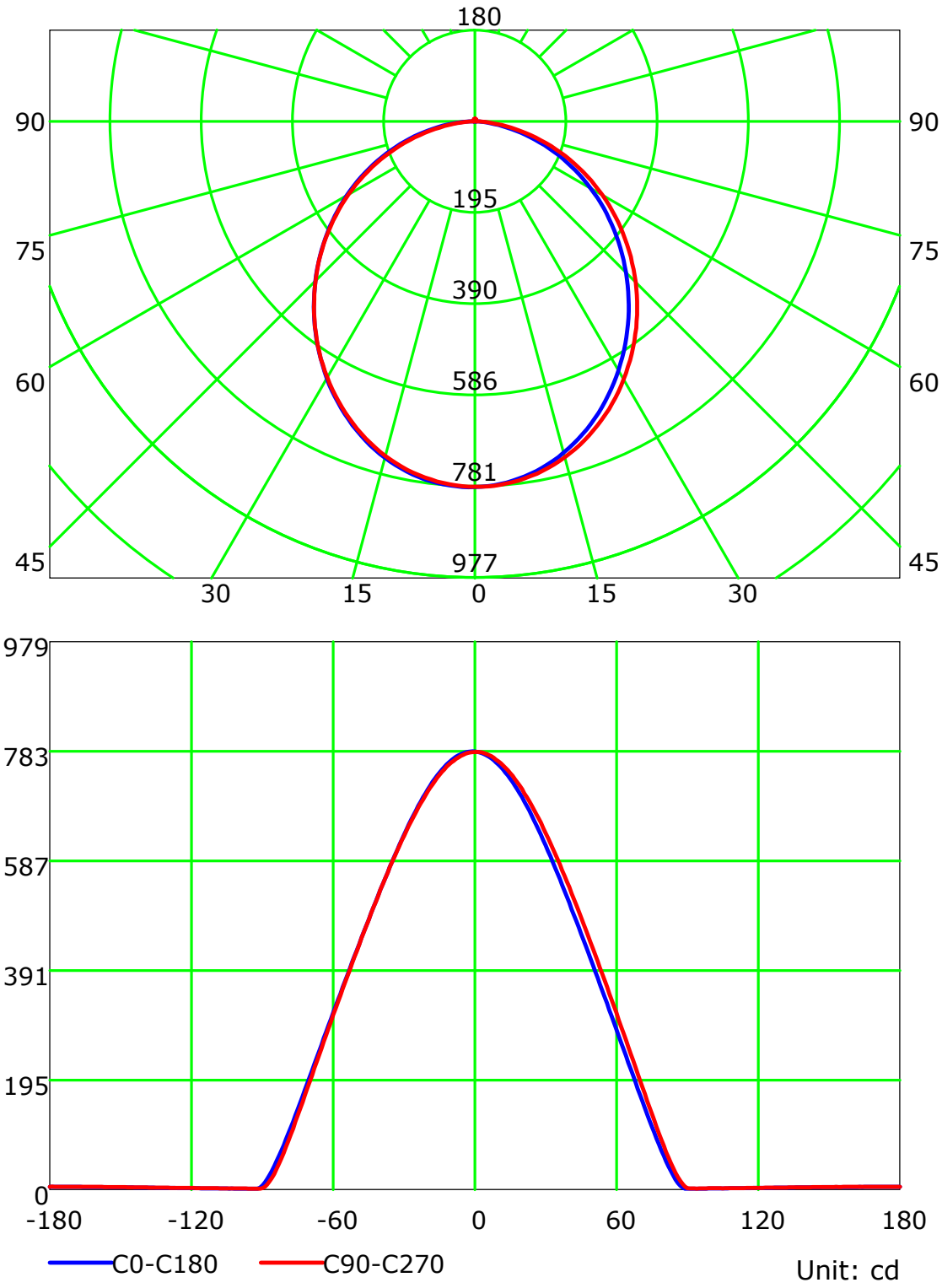
Picture Of Luminaire

Luminous Intensity Distribution Curve



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

Luminous Intensity Distribution Curve



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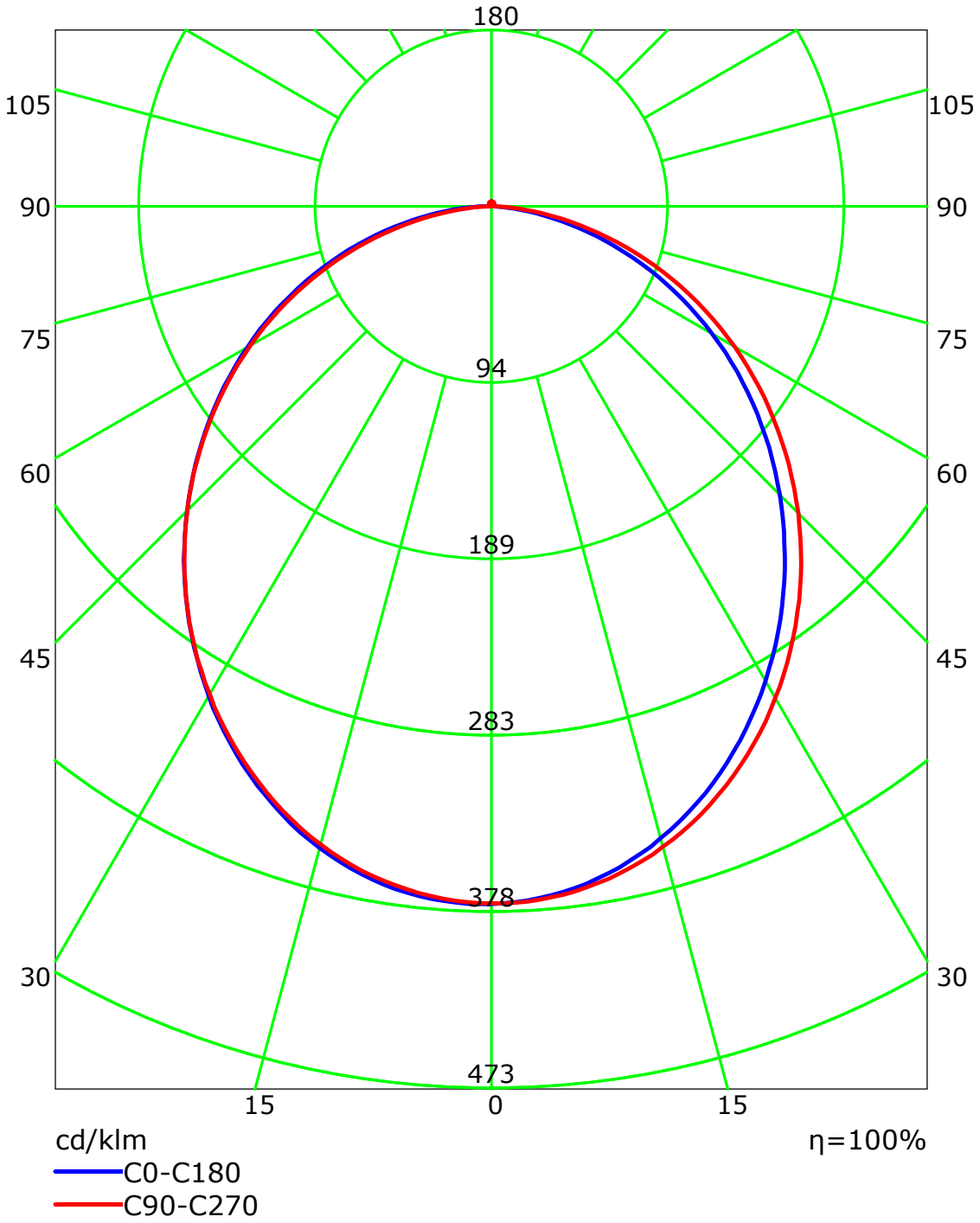
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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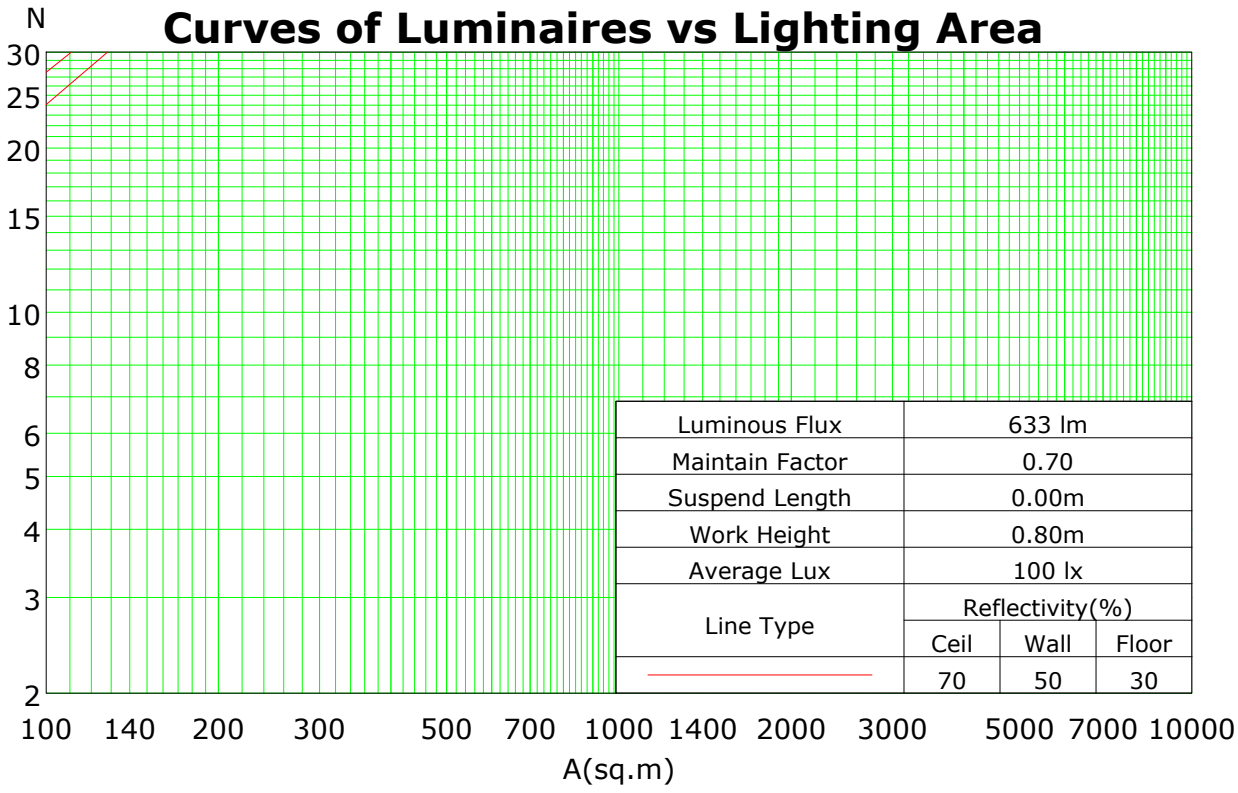
Coefficients Of Utilization - Zonal Cavity Method

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	109	104	100	96	106	102	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	83	77	85	80	75	82	77	73	78	75	72	69
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

Spacing Criteria (0-180): 1.19
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.31

Curves of Luminaires vs Lighting Area



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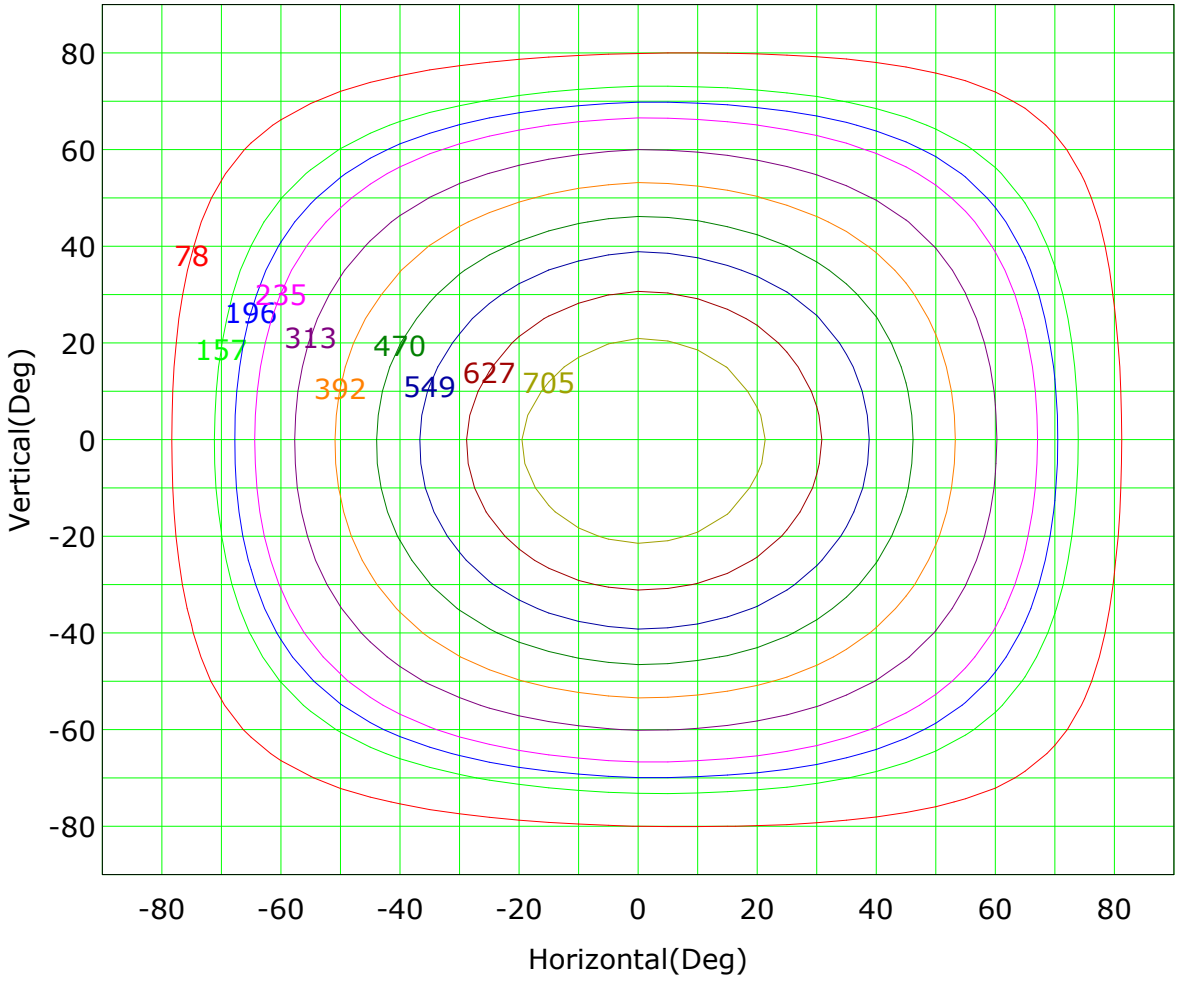
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
Operator:

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

Isocandela (rectangle)



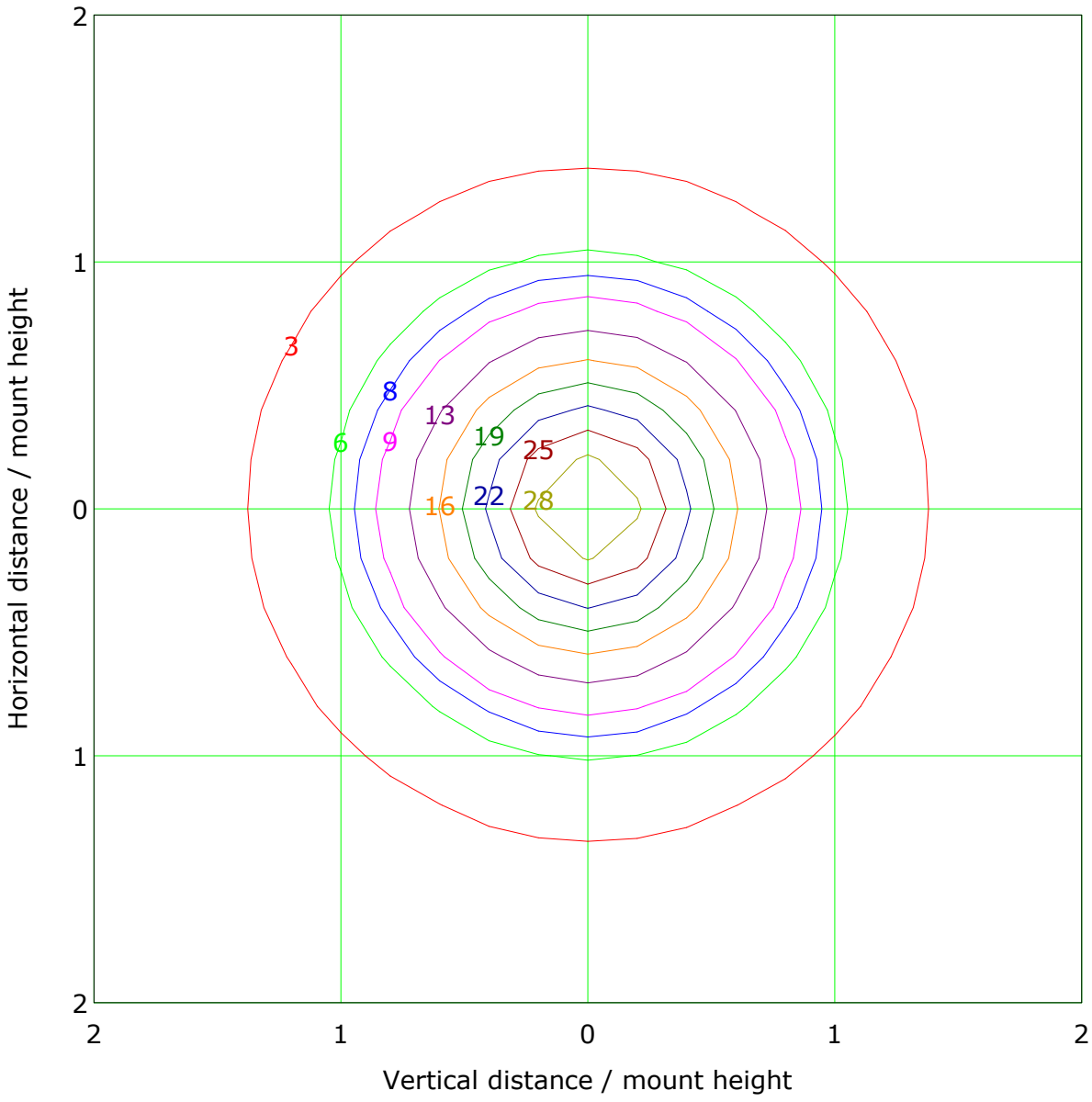
Imax (100%): 784 cd

(10%):	78 cd	(20%):	157 cd
(25%):	196 cd	(30%):	235 cd
(40%):	313 cd	(50%):	392 cd
(60%):	470 cd	(70%):	549 cd
(80%):	627 cd	(90%):	705 cd

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

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%): 31.3 lx

(10%): 3.1 lx	(20%): 6.3 lx
(25%): 7.8 lx	(30%): 9.4 lx
(40%): 12.5 lx	(50%): 15.7 lx
(60%): 18.8 lx	(70%): 21.9 lx
(80%): 25.1 lx	(90%): 28.2 lx

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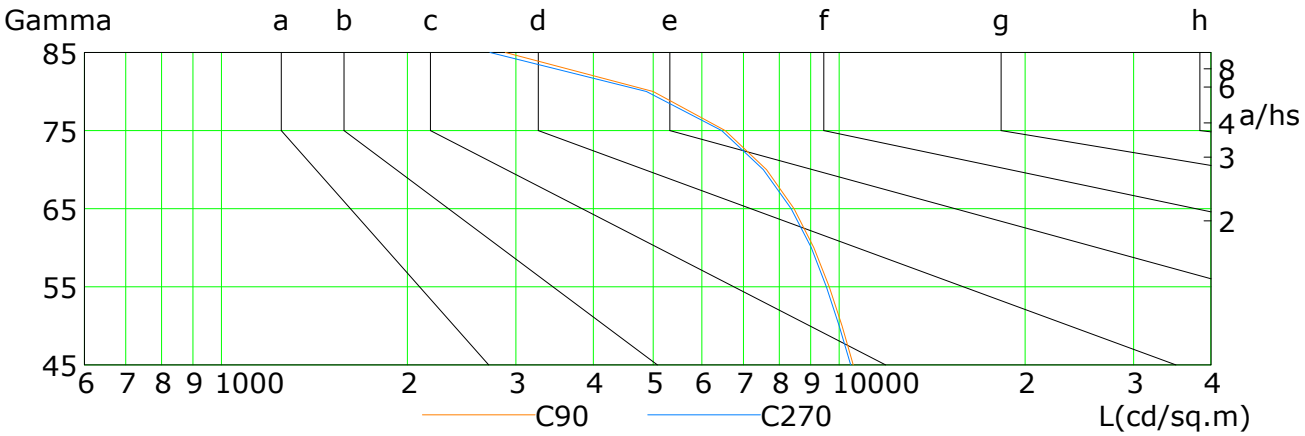
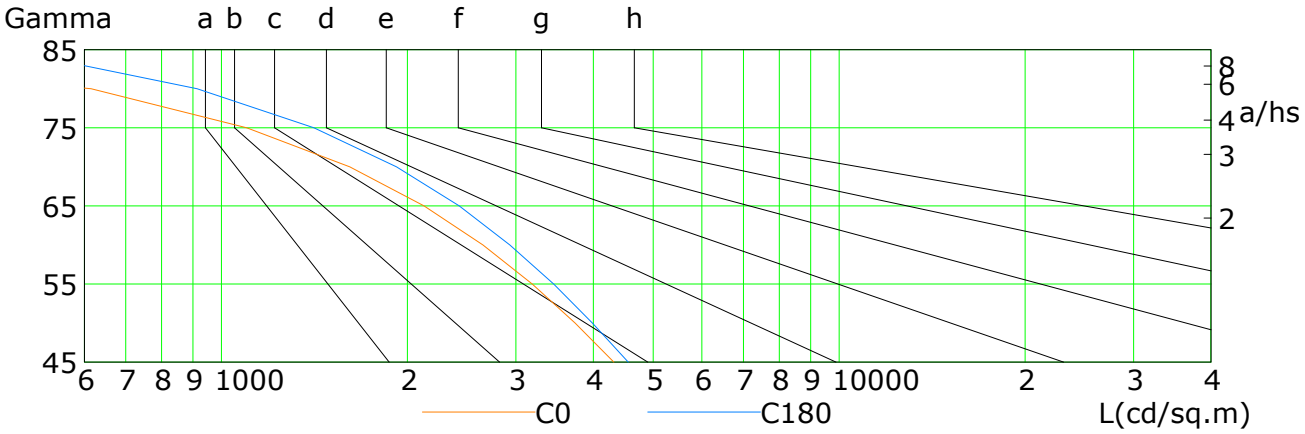
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
Operator:

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	4320	3739	3186	2650	2130	1614	1099	615	196
C90	10543	10110	9636	9103	8457	7632	6547	5001	2882
C180	4556	3989	3450	2933	2428	1922	1413	914	450
C270	10444	10009	9544	9020	8370	7544	6460	4876	2722

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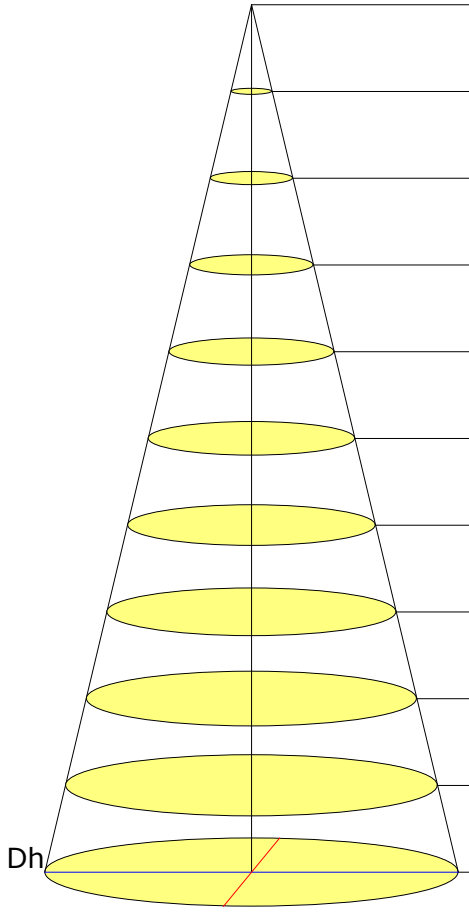
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	783.45	2.57/2.69	5.4	149.17
2.0	195.86	5.14/5.37	21.6	37.29
3.0	87.05	7.71/8.06	48.7	16.57
4.0	48.97	10.28/10.75	86.5	9.32
5.0	31.34	12.85/13.44	135.1	5.97
6.0	21.76	15.43/16.12	194.6	4.14
7.0	15.99	18.00/18.81	264.9	3.04
8.0	12.24	20.57/21.50	346.0	2.33
9.0	9.67	23.14/24.19	437.9	1.84
10.0	7.83	25.71/26.87	540.6	1.49

Beam Angle(B): H104.2 V106.7 Field Angle(F): H159.4 V159.9

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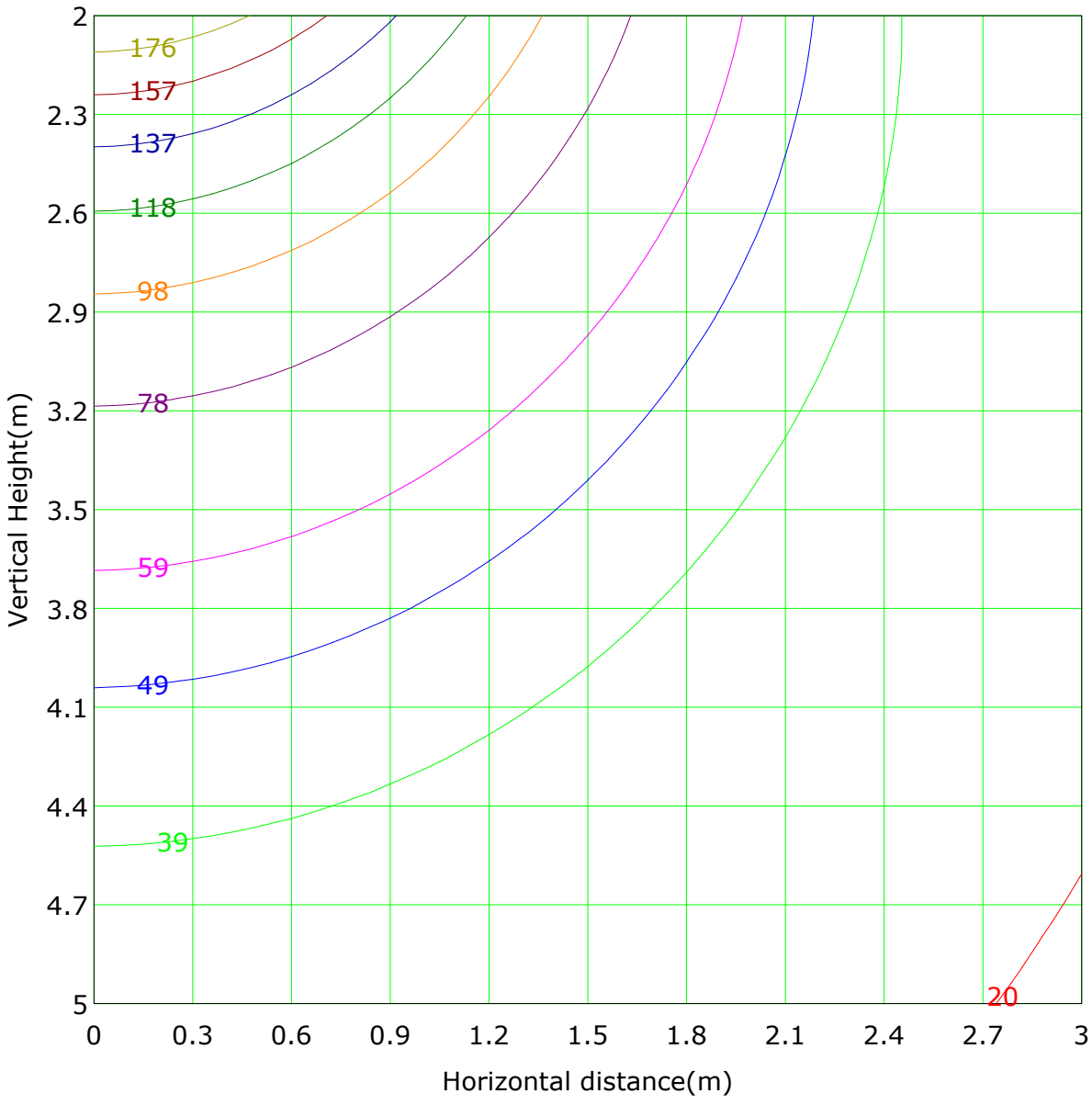
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
Operator:

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: 195.9 lx

(10%): 19.6 lx
(20%): 39.2 lx
(25%): 49.0 lx
(30%): 58.8 lx
(40%): 78.3 lx
(50%): 97.9 lx
(60%): 117.5 lx
(70%): 137.1 lx
(80%): 156.7 lx
(90%): 176.3 lx

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Test Lab: ACOLYTE
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 9.028 m
Temperature: 25℃
Humidity: 60%
Operator:
Inspector:

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	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.8	0.2
-80	0.1	0.3	0.4	0.6	0.8	0.9	1.0	1.0	1.2	1.2	1.1	1.1	0.9	0.8	0.6	0.4	0.3	0.1	0.0	13.1	10.7
-70	0.3	0.7	1.3	2.0	2.8	3.4	3.9	4.1	4.0	3.6	3.0	2.3	1.5	1.2	0.7	0.4	0.3	0.1	0.0	36.8	34.6
-60	0.4	1.2	2.3	3.6	5.0	6.2	7.1	7.6	7.5	6.9	5.8	4.5	3.1	2.3	1.7	1.2	0.7	0.3	0.1	71.1	69.0
-50	0.6	2.0	3.6	5.3	7.3	9.0	10.4	11.2	11.1	10.2	8.7	6.8	4.7	3.2	2.3	1.7	1.3	0.6	0.4	112.2	110.1
-40	0.8	2.8	5.0	7.3	9.4	11.7	13.5	14.5	14.4	13.2	11.3	8.8	6.2	4.5	3.2	2.3	1.7	0.8	0.4	155.9	153.8
-30	0.9	3.4	6.2	9.0	11.7	14.1	16.4	17.6	17.5	16.1	13.7	10.7	7.5	4.6	3.2	2.3	1.7	0.8	0.4	196.4	194.4
-20	1.0	3.9	7.1	10.4	13.5	16.4	18.8	20.3	20.2	18.5	15.7	12.2	8.6	5.3	3.8	2.6	1.8	0.8	0.4	227.8	225.8
-10	1.0	4.1	7.6	11.2	14.5	17.6	20.3	22.3	22.1	20.3	17.2	13.4	9.4	5.8	3.8	2.6	1.8	0.9	0.4	244.8	242.7
0	1.0	4.0	7.5	11.1	14.4	17.5	20.2	22.1	23.2	23.2	21.3	18.0	14.0	9.8	6.0	3.0	1.8	0.9	0.4	243.2	241.2
10	0.8	3.6	6.9	10.2	13.2	16.1	18.5	20.3	21.3	21.4	20.5	18.8	15.9	12.4	8.7	5.3	2.8	0.9	0.4	223.2	221.1
20	0.7	3.0	5.8	8.7	11.3	13.7	15.7	17.2	18.0	18.1	17.4	15.9	12.4	8.7	5.3	2.6	1.8	0.9	0.4	189.2	187.1
30	0.5	2.3	4.5	6.8	8.8	10.7	12.2	13.4	14.0	14.0	13.5	12.4	10.9	8.6	5.3	2.6	1.8	0.8	0.4	147.1	145.0
40	0.3	1.5	3.1	4.7	6.2	7.5	8.6	9.4	9.8	9.8	9.5	8.7	7.6	6.3	4.8	3.2	2.3	1.4	0.8	103.1	100.9
50	0.2	0.9	1.8	2.8	3.8	4.6	5.3	5.8	6.0	6.0	5.8	5.3	4.7	3.8	2.9	1.9	1.2	0.7	0.4	62.7	60.5
60	0.1	0.4	0.8	1.3	1.8	2.3	2.6	2.8	3.0	3.0	3.0	2.6	2.3	1.8	1.4	0.9	0.6	0.4	0.2	30.4	28.1
70	0.0	0.1	0.2	0.4	0.6	0.7	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.4	0.2	0.1	0.1	0.0	9.4	6.4
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
90	8.8	34.1	64.5	94.9	123.6	149.5	171.2	187.2	196.0	196.5	188.3	172.7	151.1	125.1	96.2	65.4	34.6	9.1	0.0	2069	
Flux(T)	0.0	28.4	62.9	94.1	123.1	149.1	170.9	186.9	195.7	196.2	188.1	172.4	150.7	124.6	95.4	63.8	29.1	0.0			
Flux(E)	0.0	28.4	62.9	94.1	123.1	149.1	170.9	186.9	195.7	196.2	188.1	172.4	150.7	124.6	95.4	63.8	29.1				

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Operator:

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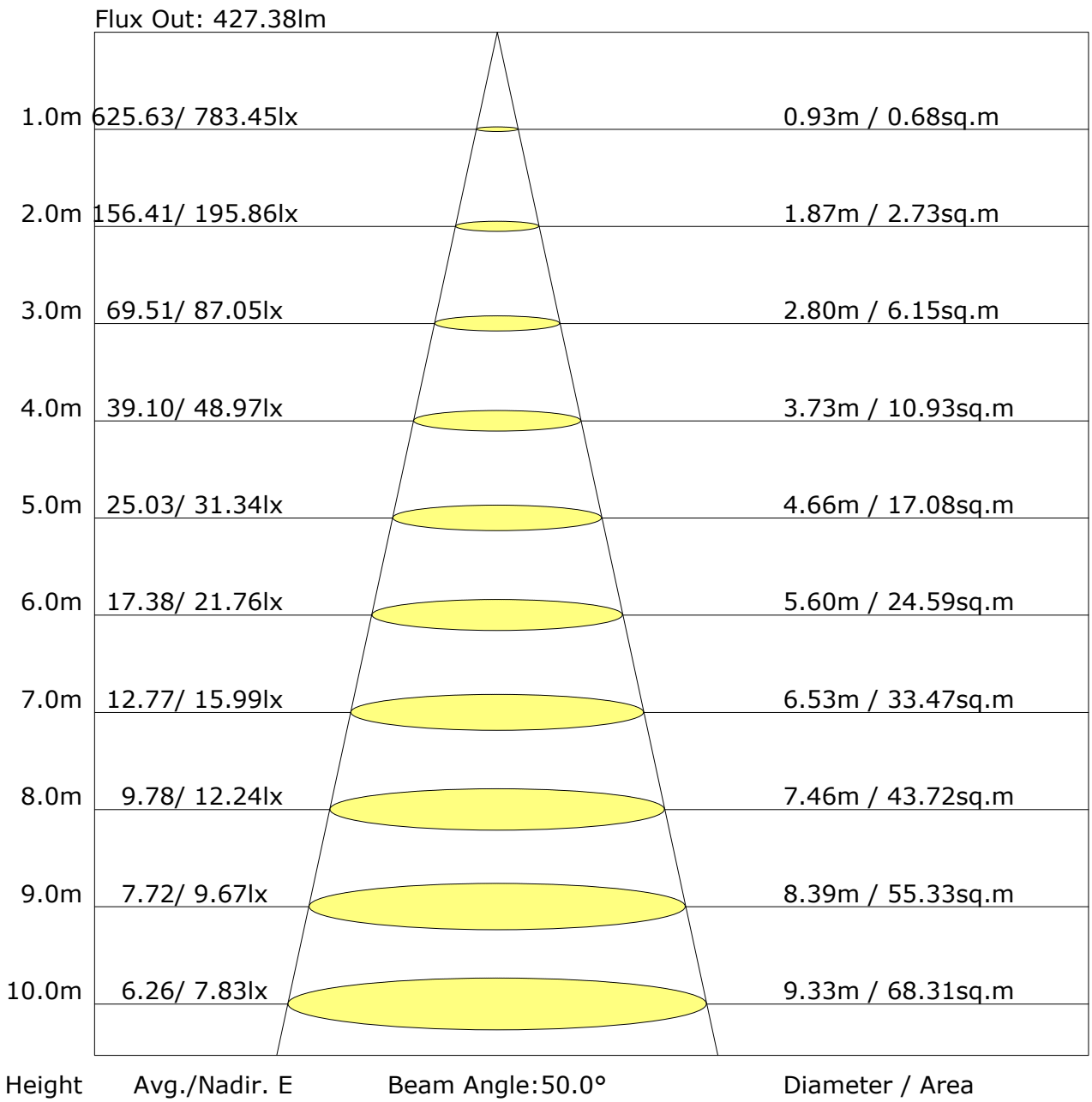
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	15.0	16.6	15.4	17.0	17.3	13.6	15.2	14.0	15.5	15.9
3H	16.6	18.1	17.0	18.4	18.8	14.9	16.4	15.3	16.7	17.1
4H	17.2	18.5	17.6	18.9	19.3	15.3	16.7	15.7	17.0	17.4
6H	17.5	18.7	17.9	19.1	19.5	15.5	16.8	15.9	17.2	17.6
8H	17.5	18.7	18.0	19.2	19.6	15.5	16.7	16.0	17.2	17.6
12H	17.6	18.7	18.0	19.1	19.6	15.6	16.7	16.0	17.1	17.6
X=4H Y=2H	15.3	16.7	15.7	17.0	17.4	14.2	15.6	14.6	15.9	16.3
3H	17.0	18.2	17.5	18.6	19.0	15.7	16.8	16.1	17.2	17.7
4H	17.6	18.7	18.1	19.1	19.6	16.2	17.2	16.6	17.6	18.1
6H	18.0	18.9	18.5	19.4	19.9	16.4	17.3	16.9	17.8	18.3
8H	18.1	19.0	18.6	19.4	19.9	16.5	17.3	17.0	17.8	18.3
12H	18.2	18.9	18.7	19.4	19.9	16.5	17.3	17.0	17.8	18.3
X=8H Y=4H	17.7	18.6	18.2	19.0	19.5	16.4	17.2	16.9	17.7	18.2
6H	18.1	18.8	18.7	19.3	19.8	16.7	17.4	17.2	17.9	18.4
8H	18.2	18.9	18.8	19.4	19.9	16.8	17.4	17.3	18.0	18.5
12H	18.3	18.8	18.8	19.4	19.9	16.9	17.4	17.4	17.9	18.5
X=12H Y=4H	17.7	18.5	18.2	19.0	19.5	16.4	17.2	16.9	17.7	18.1
6H	18.1	18.8	18.7	19.2	19.8	16.8	17.4	17.3	17.9	18.4
8H	18.3	18.8	18.8	19.3	19.9	16.9	17.4	17.4	17.9	18.5

Calculate in accordance with CIE 190:2010

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Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F) SHR NOM = 1.25

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	0.57	0.68	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.50	0.60	0.68	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.44	0.54	0.61	0.67	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.48	0.58	0.64	0.70	0.77	0.82	0.85	0.90	0.92
	0.20		0.43	0.53	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.41	0.50	0.57	0.62	0.69	0.74	0.78	0.82	0.85

Rating:24W 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 Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W) SHR NOM = 1.25

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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.70	0.61	0.53	0.48	0.40	0.34	0.29	0.23	0.20
0.50	0.50	0.20	0.95	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20
	0.20		0.69	0.60	0.52	0.47	0.38	0.33	0.28	0.22	0.19
0.30	0.50	0.20	0.92	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.19
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19
	0.20		0.69	0.59	0.51	0.46	0.37	0.32	0.27	0.22	0.18
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14

Rating:24W 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: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
Operator:

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 = 1.25

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		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
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	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
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:24W 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: ACOLYTE
Test Type: TYPE C
Temperature: 25℃
Operator:

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