

Report No.: 01

Test Time: 2016/2/26 13:45

Luminaire Property

Luminaire Manufacturer: Acolyte
Luminaire Category: RBBL41M 1*1
Lamp Catalog: LED
Luminous Width (mm): 300
Voltage: 24.0 V
Power: 14.77 W

Luminaire Description: RBBL41M 1*1
Luminous Length (mm): 300
Luminous Height (mm): 10
Current: 0.616 A
Power Factor: 1.000

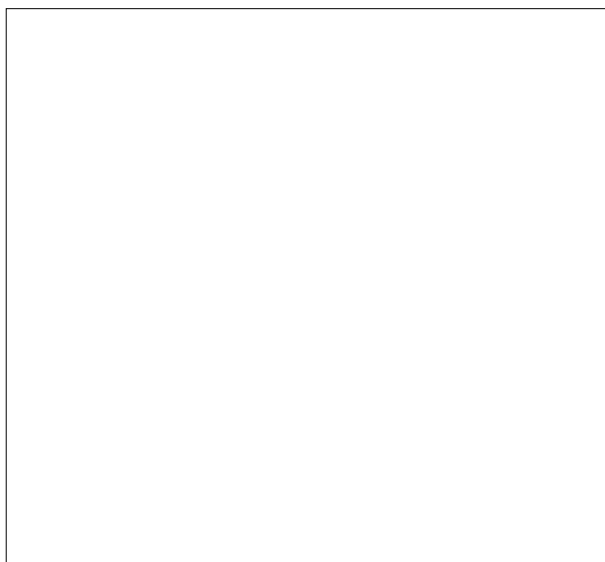
Photometric Results

CIE Class: Direct
Measurement Flux: 815.4 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H109.4
Vertical Diffuse Angle(50%): V109.6
Luminaire Efficacy Rating (LER): 55
Max. Intensity: 292.46 cd

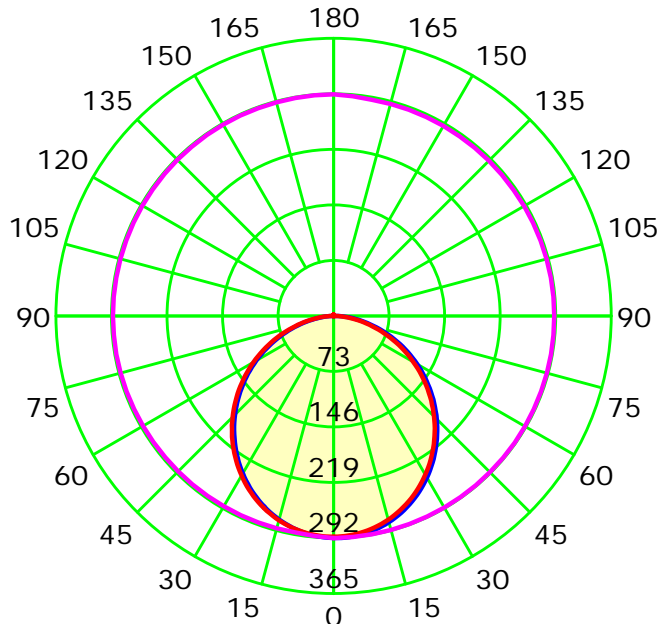
Total Rated Lamp Lumens: 815.4 lm
Efficiency: 100%
Upward Ratio: 1%

Central Intensity: 292.43 cd
Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



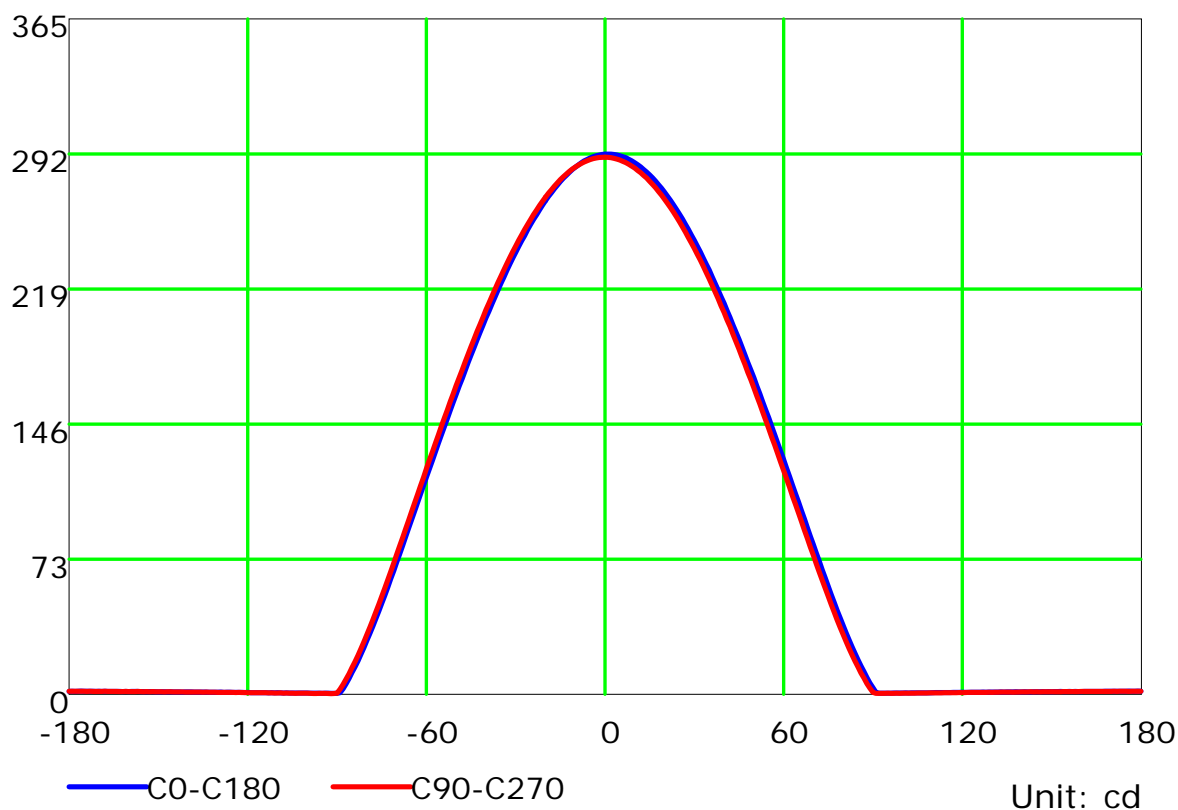
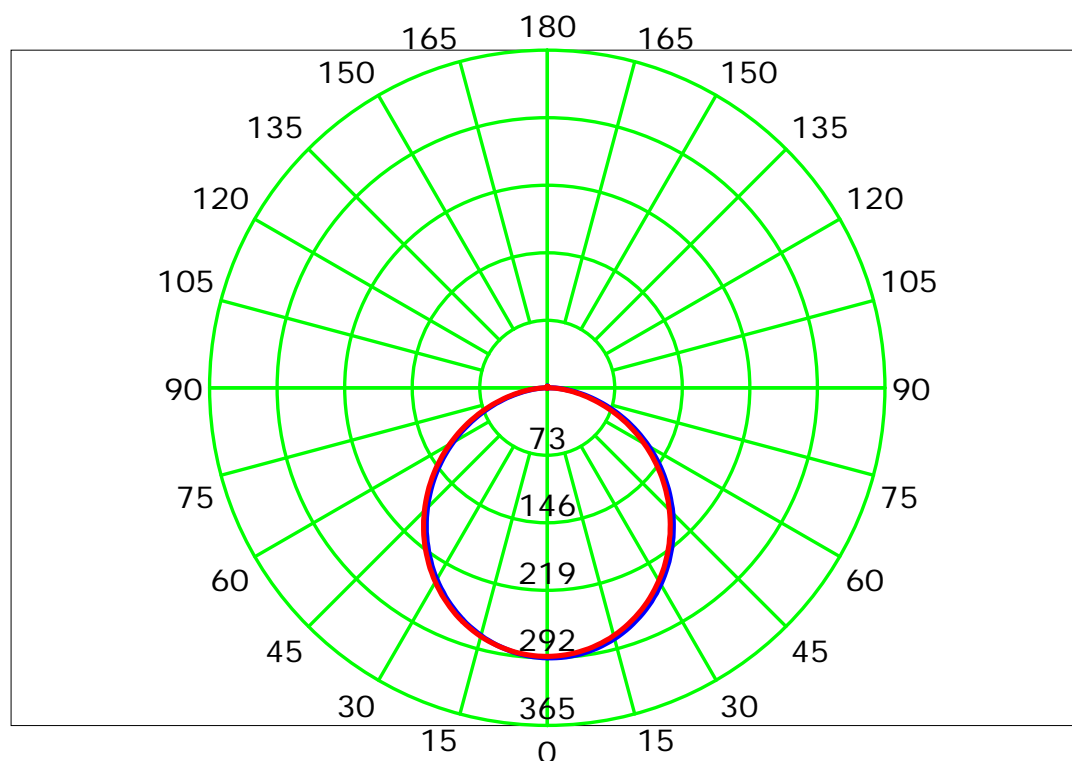
Unit: cd

— C0-C180 — C90-C270 — G2

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

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

Luminous Intensity Distribution Curve



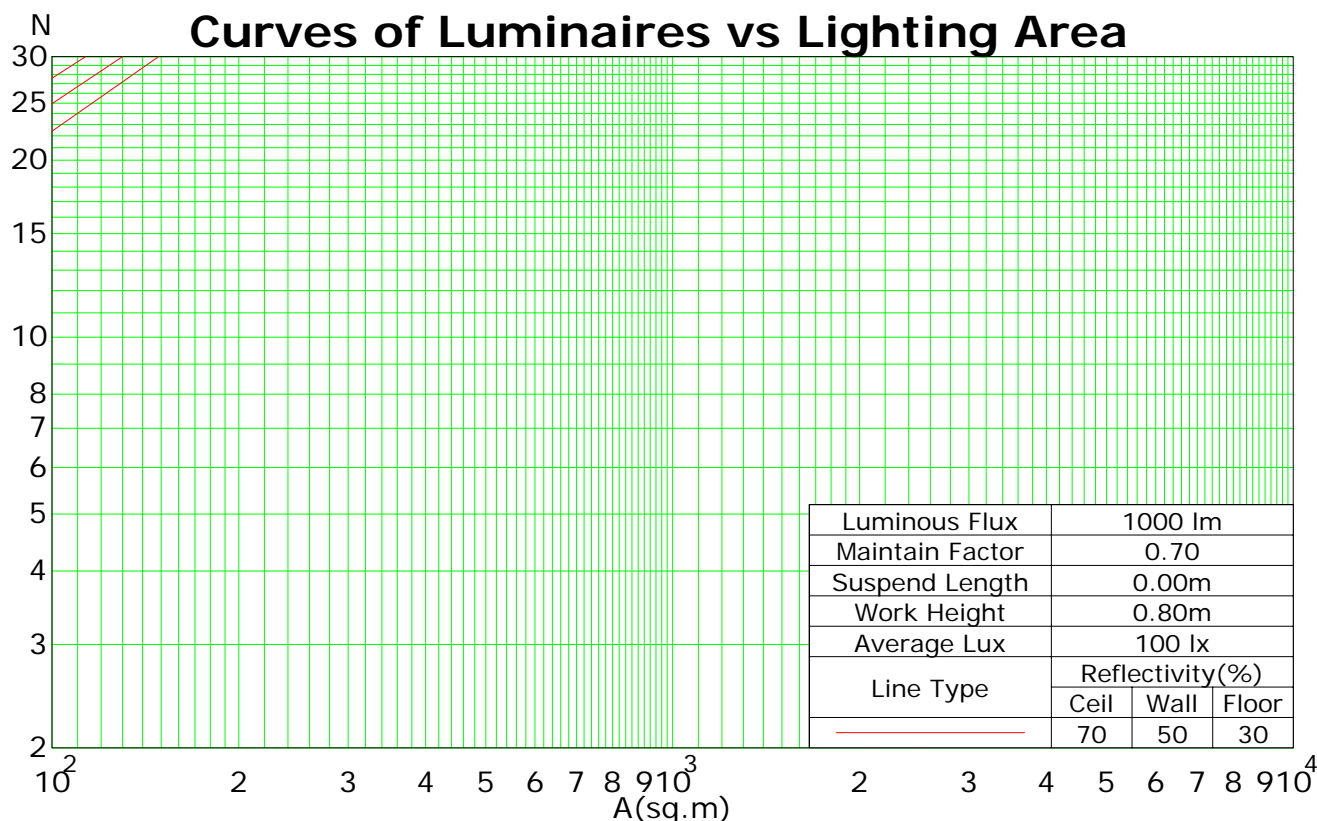
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Coefficients Of Utilization - Zonal Cavity Method

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

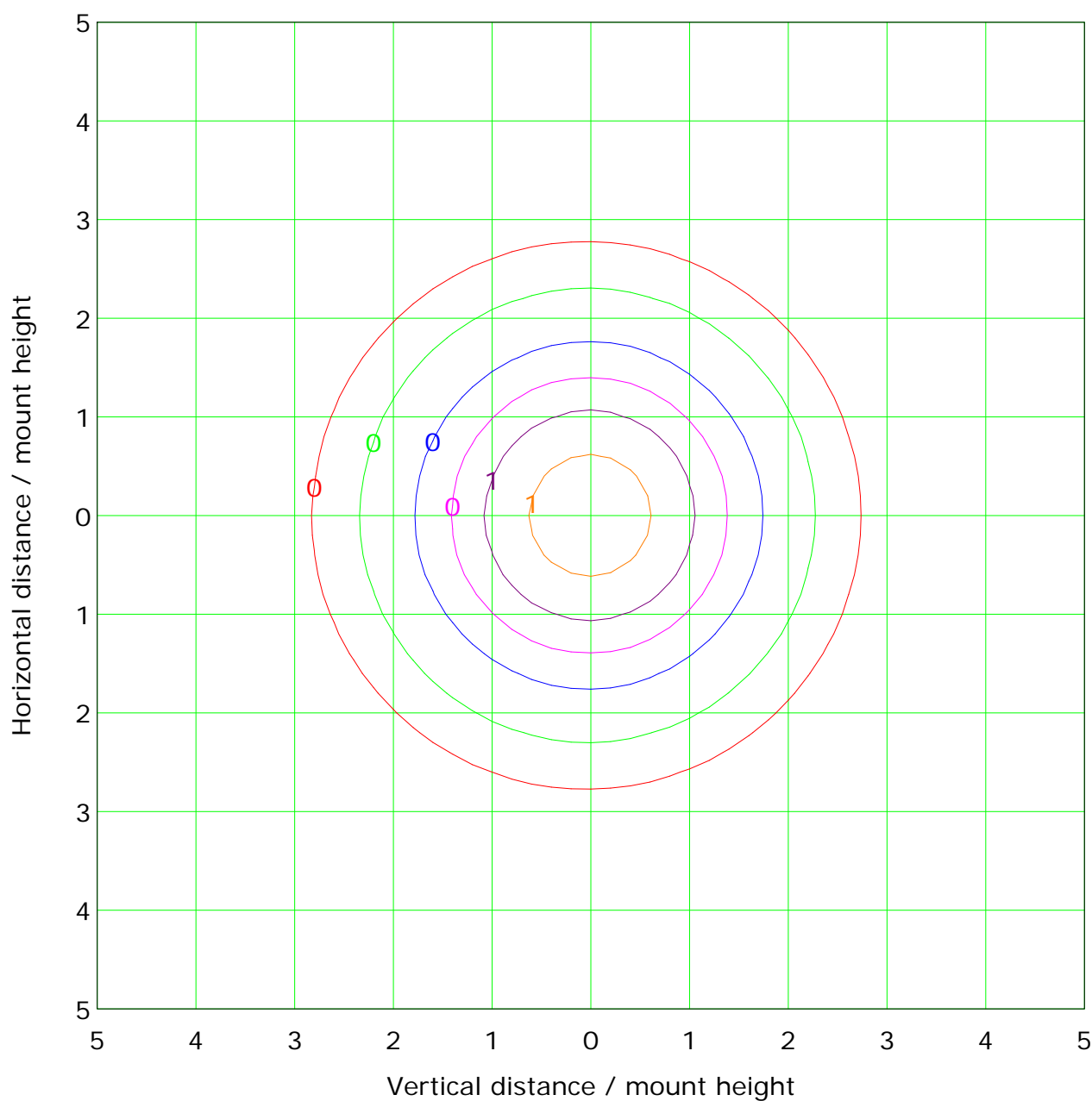
Spacing Criteria (0-180): 1.23
Spacing Criteria (90-270): 1.24
Spacing Criteria (Diagonal): 1.35



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Humidity: 60%
Inspector:

IsoLux Plot



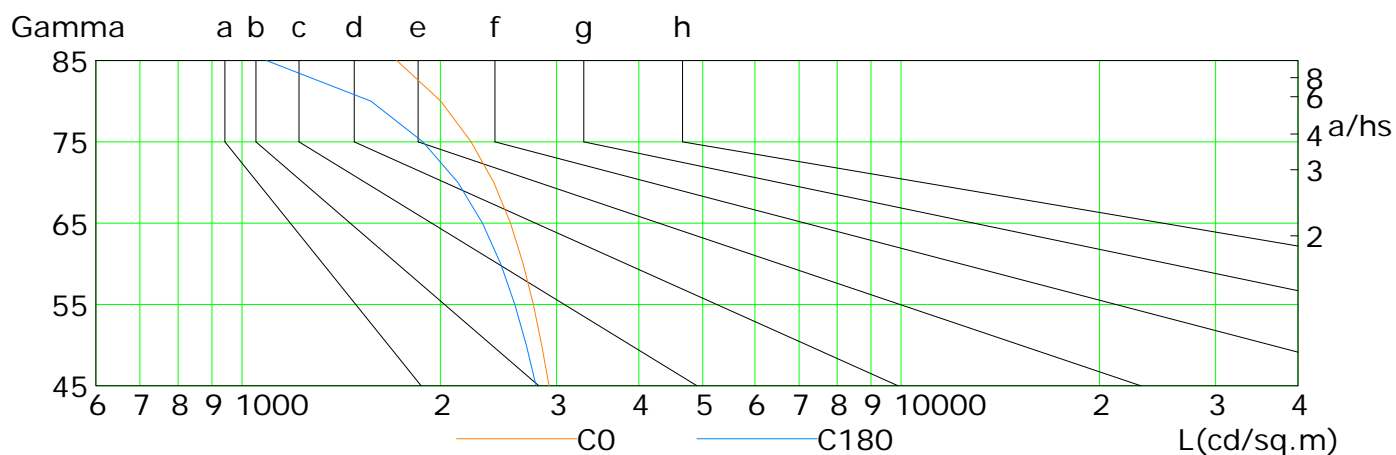
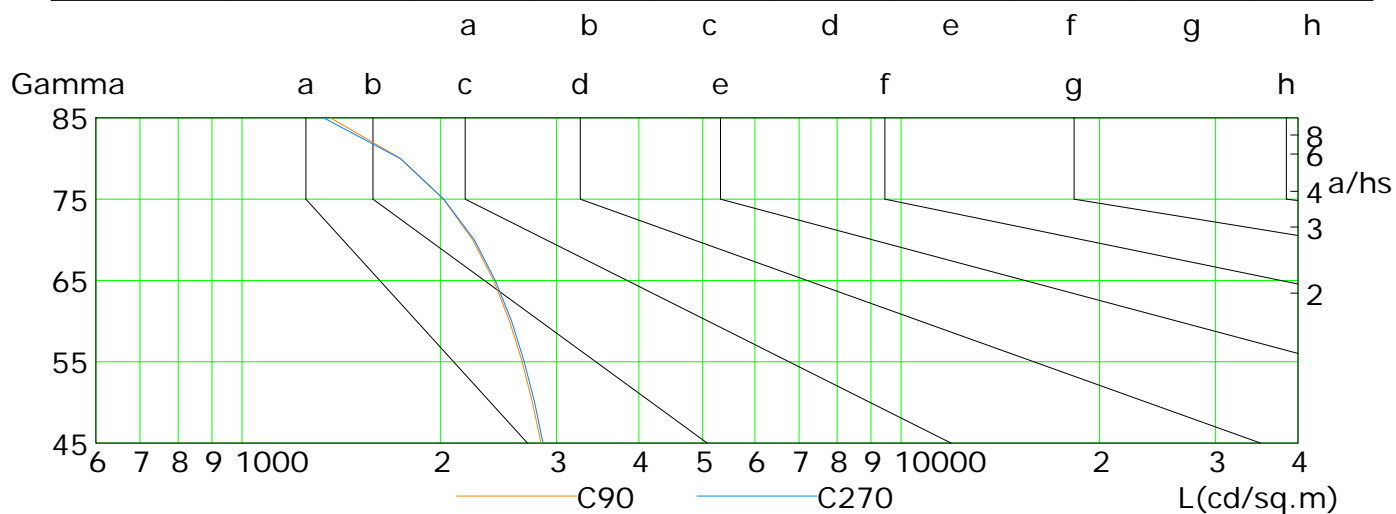
Mounting Height: 10.0m		Max Lux(100%): 2.9 lx	
— (1%):	0.0 lx	— (2%):	0.1 lx
— (5%):	0.1 lx	— (10%):	0.3 lx
— (20%):	0.6 lx	— (50%):	1.5 lx
— (100%):	2.9 lx		

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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

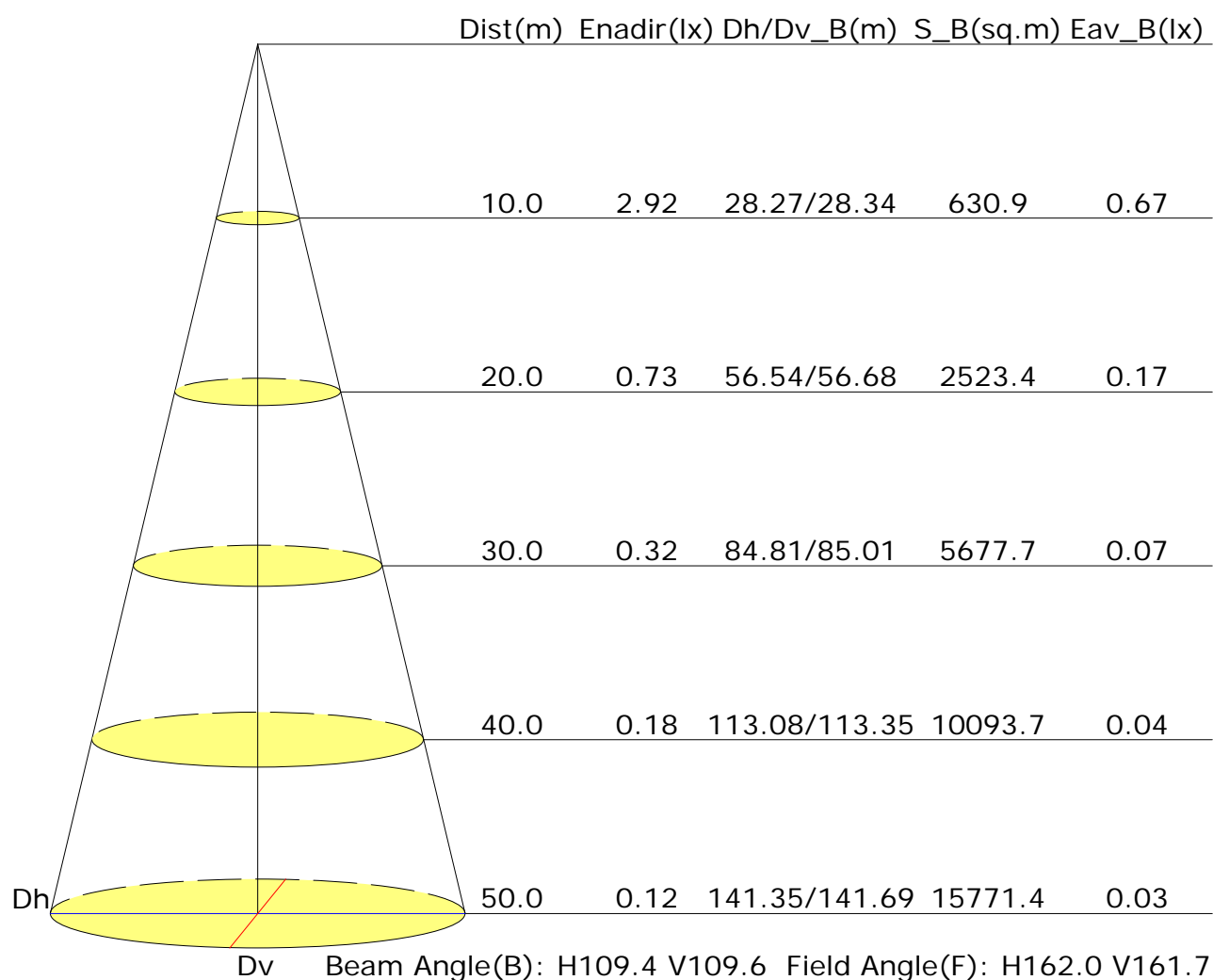


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2922	2849	2767	2670	2554	2410	2226	2003	1717
C90	2842	2758	2660	2545	2409	2239	2022	1741	1362
C180	2793	2700	2594	2469	2316	2126	1881	1569	1089
C270	2862	2779	2681	2565	2422	2251	2024	1738	1330

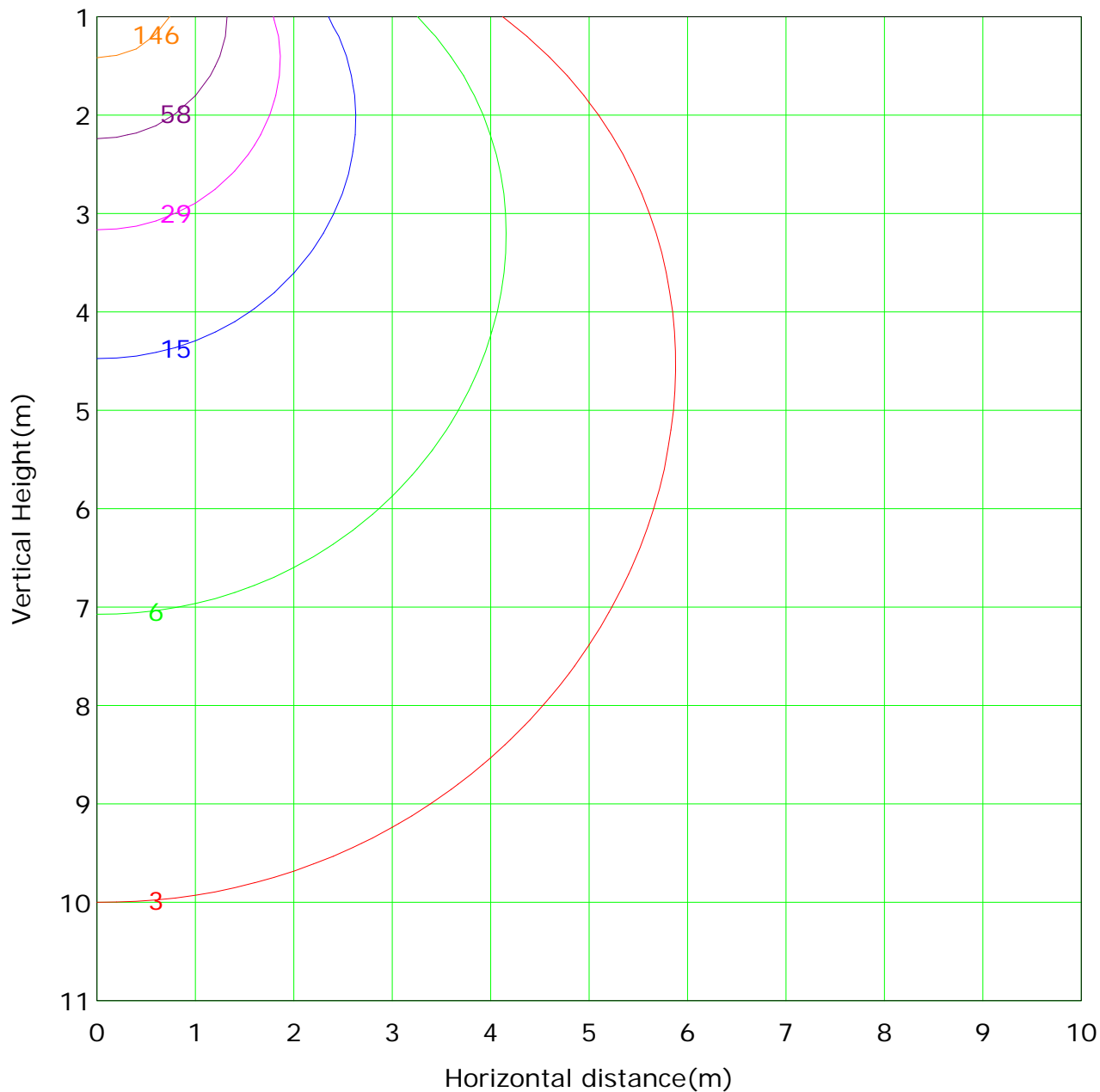
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Humidity: 60%
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 292.4 lx

— (1%): 2.9 lx	— (2%): 5.8 lx
— (5%): 14.6 lx	— (10%): 29.2 lx
— (20%): 58.5 lx	— (50%): 146.2 lx
— (100%): 292.4 lx	

Area Flux Table

Unit: lm																				
Vertical plane																				
-90	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0	4.1	0.3
-80	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.6	1.6	1.5	1.3	1.1	0.8	0.5	0.3	0.1	0.0	14.1	12.4
-70	0.0	0.1	0.4	0.8	1.3	1.8	2.3	2.7	3.0	3.0	2.8	2.5	2.0	1.4	0.9	0.5	0.2	0.0	25.8	25.3
-60	0.0	0.2	0.6	1.2	1.9	2.7	3.5	4.0	4.3	4.4	4.1	3.6	2.9	2.1	1.3	0.7	0.3	0.0	37.9	37.6
-50	0.0	0.3	0.8	1.6	2.5	3.6	4.5	5.2	5.6	5.7	5.3	4.6	3.7	2.7	1.7	0.9	0.3	0.0	49.1	49.0
-40	0.0	0.3	0.9	1.9	3.1	4.3	5.4	6.3	6.8	6.8	6.4	5.5	4.4	3.2	2.0	1.1	0.4	0.1	59.0	58.9
-30	0.0	0.4	1.1	2.2	3.5	4.9	6.2	7.2	7.7	7.7	7.2	6.3	5.0	3.6	2.3	1.2	0.4	0.1	66.9	66.8
-20	0.0	0.4	1.2	2.4	3.8	5.3	6.7	7.8	8.4	8.4	7.8	6.8	5.4	3.9	2.5	1.3	0.5	0.1	72.4	72.4
-10	0.0	0.4	1.2	2.4	3.9	5.5	7.0	8.1	8.7	8.7	8.1	7.1	5.6	4.1	2.6	1.3	0.5	0.1	75.4	75.3
0	0.0	0.4	1.2	2.4	3.9	5.5	6.9	8.0	8.7	8.7	8.2	7.1	5.7	4.1	2.6	1.3	0.5	0.1	75.4	75.3
10	0.0	0.4	1.2	2.3	3.8	5.3	6.6	7.7	8.3	8.4	7.8	6.8	5.5	4.0	2.5	1.3	0.5	0.1	72.4	72.3
20	0.0	0.4	1.1	2.2	3.5	4.8	6.1	7.1	7.7	7.7	7.2	6.3	5.0	3.7	2.3	1.2	0.4	0.1	66.7	66.6
30	0.0	0.3	0.9	1.9	3.0	4.3	5.4	6.3	6.7	6.8	6.4	5.5	4.4	3.2	2.1	1.1	0.4	0.1	58.8	58.7
40	0.0	0.3	0.8	1.6	2.5	3.5	4.5	5.2	5.6	5.6	5.3	4.6	3.7	2.7	1.7	0.9	0.3	0.0	48.9	48.8
50	0.0	0.2	0.6	1.2	1.9	2.7	3.4	4.0	4.3	4.3	4.1	3.6	2.9	2.1	1.3	0.7	0.3	0.0	37.7	37.5
60	0.0	0.1	0.4	0.8	1.3	1.8	2.3	2.7	2.9	3.0	2.8	2.5	2.0	1.4	0.9	0.5	0.2	0.0	25.8	25.3
70	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.6	1.6	1.5	1.4	1.1	0.8	0.5	0.3	0.1	0.0	14.1	12.5
80	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.0	4.2	0.3
90	0.5	4.3	12.9	25.9	41.8	58.6	74.1	86.1	92.9	93.4	87.5	76.2	61.1	44.4	28.3	14.8	5.4	0.8	809	
Flux(T)	0.0	3.4	12.1	25.1	41.0	57.8	73.3	85.3	92.1	92.6	86.8	75.4	60.3	43.6	27.5	14.0	4.5	0.2		795
Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$F_{0\text{Flux}}$	$F_{90\text{Flux}}$
Horizontal plane																				

C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

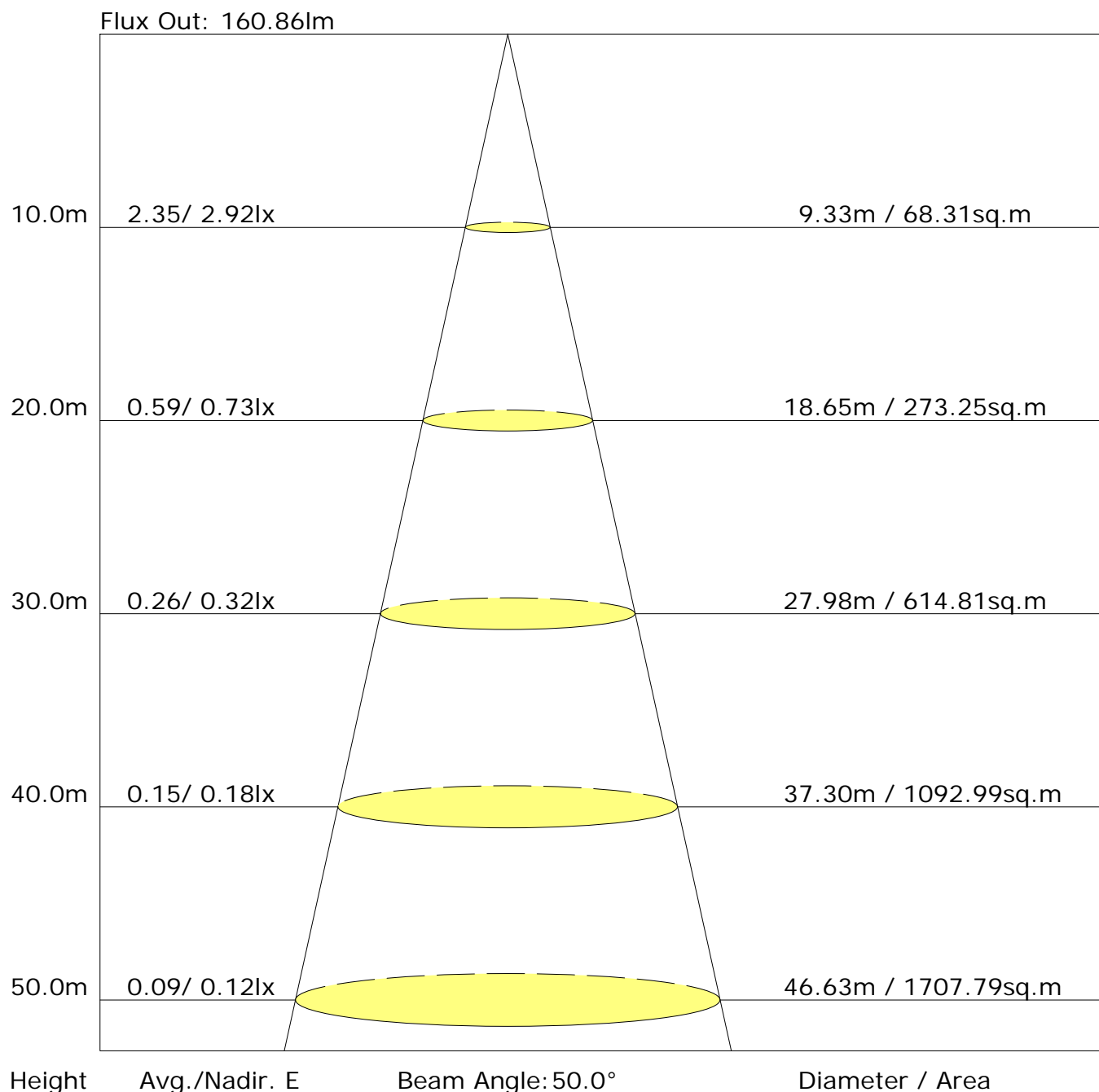
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

The Average Illuminance Effective Figure



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	16.3	17.9	16.7	18.3	18.6	16.1	17.7	16.5	18.0	18.4
3H	18.1	19.6	18.5	19.9	20.3	17.8	19.3	18.2	19.6	20.0
4H	18.8	20.2	19.2	20.6	21.0	18.5	19.9	18.9	20.2	20.6
6H	19.4	20.6	19.8	21.0	21.4	18.9	20.2	19.4	20.6	21.0
8H	19.5	20.8	20.0	21.2	21.6	19.1	20.3	19.5	20.7	21.1
12H	19.7	20.9	20.1	21.2	21.7	19.2	20.4	19.6	20.8	21.2
X=4H Y=2H	16.9	18.3	17.3	18.7	19.1	16.7	18.1	17.1	18.4	18.8
3H	19.0	20.1	19.4	20.5	20.9	18.7	19.8	19.1	20.2	20.6
4H	19.8	20.8	20.2	21.3	21.7	19.4	20.5	19.9	20.9	21.3
6H	20.5	21.4	20.9	21.8	22.3	20.0	20.9	20.5	21.4	21.9
8H	20.7	21.5	21.2	22.0	22.5	20.2	21.1	20.7	21.5	22.0
12H	20.9	21.6	21.4	22.1	22.6	20.3	21.1	20.8	21.6	22.1
X=8H Y=4H	20.1	20.9	20.6	21.4	21.9	19.7	20.6	20.2	21.0	21.5
6H	20.9	21.6	21.4	22.1	22.6	20.4	21.1	20.9	21.6	22.1
8H	21.2	21.8	21.7	22.3	22.8	20.7	21.3	21.2	21.8	22.3
12H	21.5	22.0	22.0	22.5	23.1	20.9	21.5	21.4	22.0	22.5
X=12H Y=4H	20.1	20.9	20.6	21.4	21.9	19.7	20.5	20.2	21.0	21.5
6H	20.9	21.6	21.5	22.1	22.6	20.5	21.1	21.0	21.6	22.2
8H	21.3	21.9	21.8	22.4	22.9	20.8	21.4	21.3	21.9	22.4

Calculate in accordance with CIE 190:2010

 C Plane (°):0.0-360.0: 10.0
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