

astro

PHOTOMETRIC
TEST REPORT

Report No.: 20170807A

Test Time: 2017-08-25 11:12

Luminaire Property

Luminaire Category: LED TRACK LIGHT
Luminaire Manufacturer: Astro
Lamp Description: Lumens EDC_38C_8W
Lumens per Lamp: 649
Luminous Width (mm): -47
Voltage: 229.7 V
Power: 7.40 W

Luminaire Description: 6148
Lamp Catalog: LED
Number of Lamps: 1
Luminous Length (mm): -47
Luminous Height (mm): 46
Current: 0.034 A
Power Factor: 0.973

Photometric Results

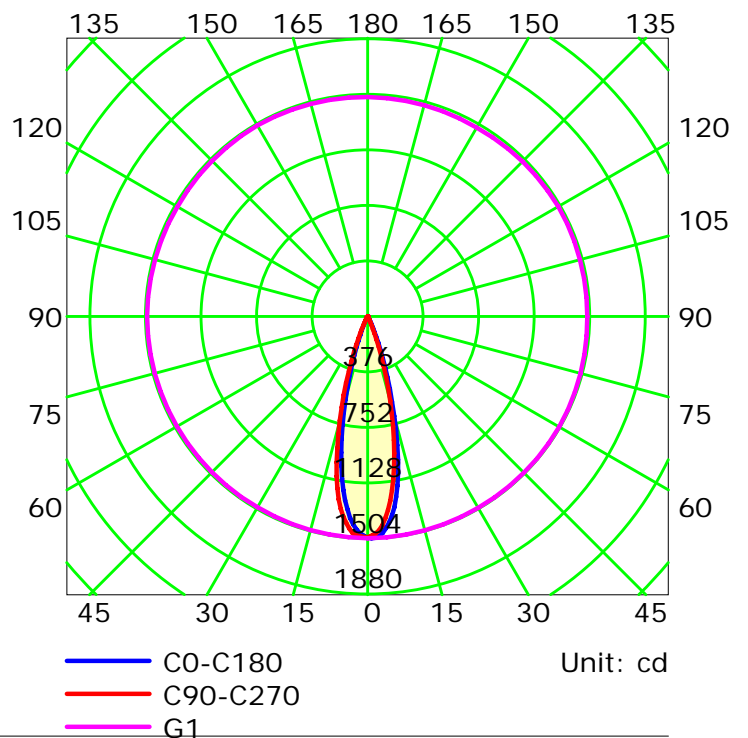
CIE Class: Direct
Measurement Flux: 356.4 lm
Downward Ratio: 54.91%
Luminaire Efficacy Rating (LER): 48
Max. Intensity: 1502.66 cd

Total Rated Lamp Lumens: 649.0 lm
Efficiency: 54.91%
Upward Ratio: 0.00%
Central Intensity: 1497.73 cd
Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



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

Test Device: GPM-1800
Distance: 10.096 m
Humidity: 52
Inspector:

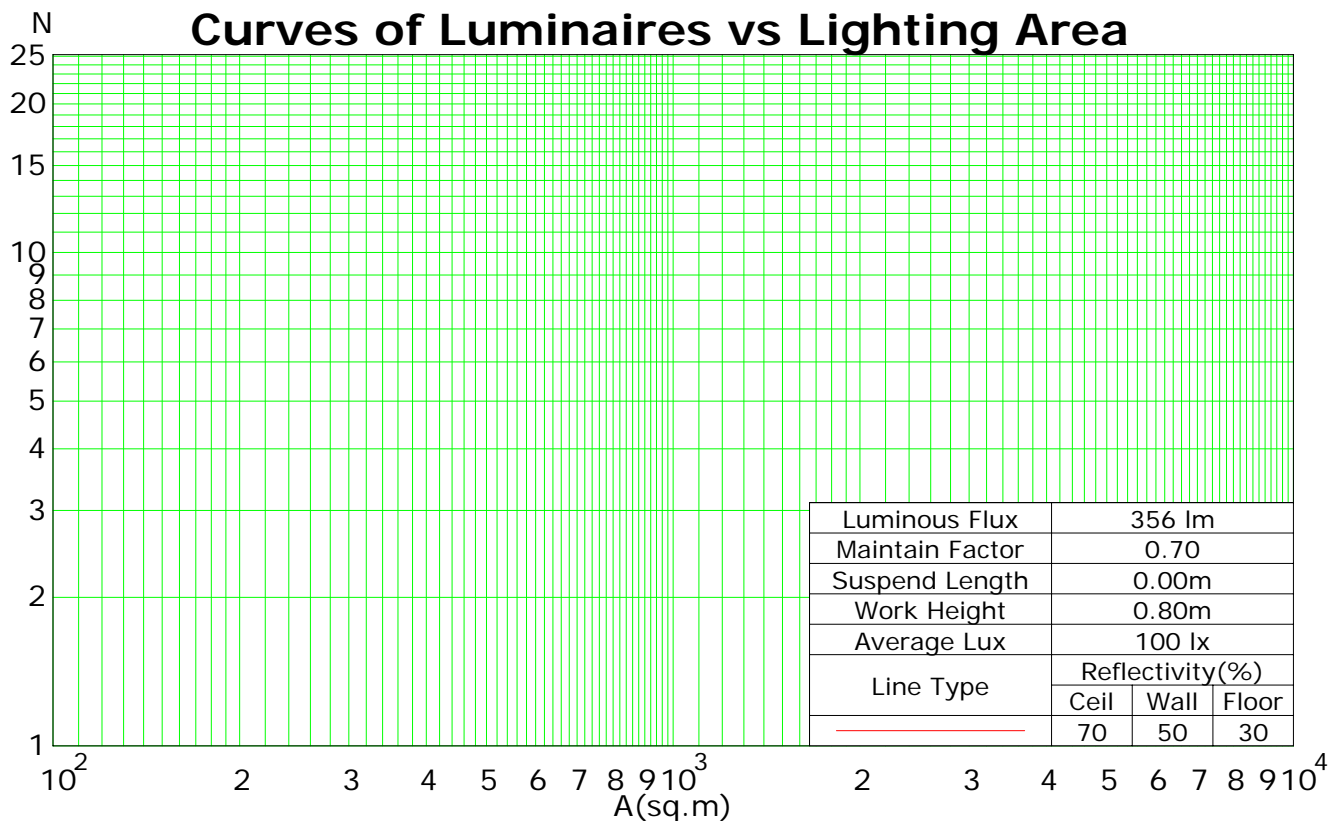
Coefficients Of Utilization - Zonal Cavity Method

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	65	65	65	65	64	64	64	64	61	61	61	58	58	58	56	56	56	55
1	63	62	61	60	62	61	60	59	59	58	57	57	56	55	55	54	54	53
2	61	59	57	56	60	58	57	55	56	55	54	55	54	53	53	53	52	51
3	59	56	54	53	58	56	54	52	54	53	52	53	52	51	52	51	50	49
4	57	54	52	50	56	54	52	50	53	51	50	52	50	49	51	49	49	48
5	56	52	50	48	55	52	50	48	51	49	48	50	49	47	49	48	47	46
6	54	51	48	47	53	50	48	47	49	48	46	49	47	46	48	47	46	45
7	53	49	47	45	52	49	47	45	48	46	45	48	46	45	47	46	44	44
8	51	48	45	44	51	47	45	44	47	45	44	46	45	43	46	44	43	43
9	50	46	44	42	49	46	44	42	46	44	42	45	43	42	45	43	42	42
10	49	45	43	41	48	45	43	41	44	43	41	44	42	41	44	42	41	41

Spacing Criteria (0-180): 0.47

Spacing Criteria (90-270): 0.47

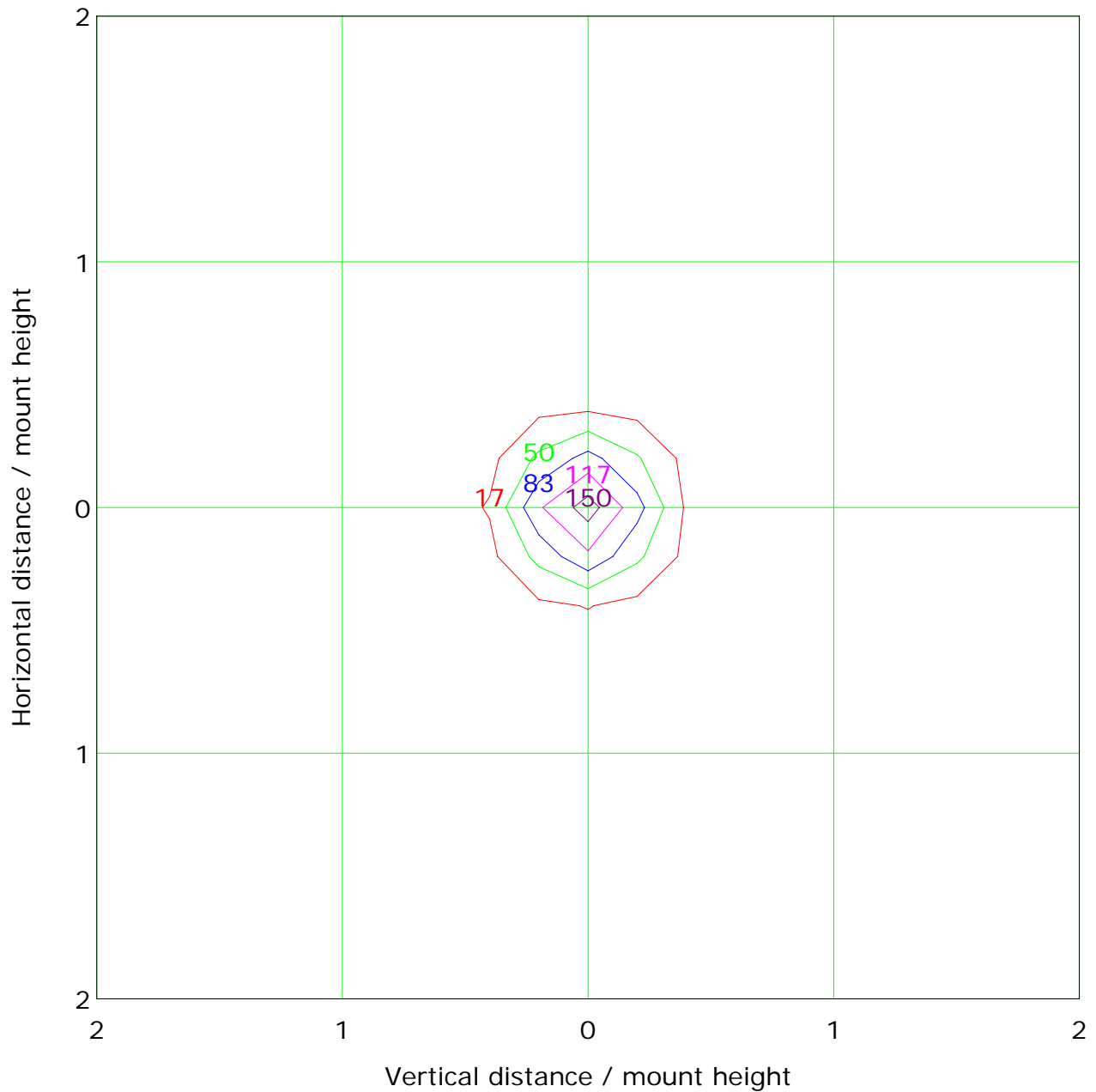
Spacing Criteria (Diagonal): 0.45



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IsoLux Plot



Mounting Height: 3m Max Lux(100%): 167 lx

(10%): 17 lx	(30%): 50 lx
(50%): 83 lx	(70%): 117 lx
(90%): 150 lx	

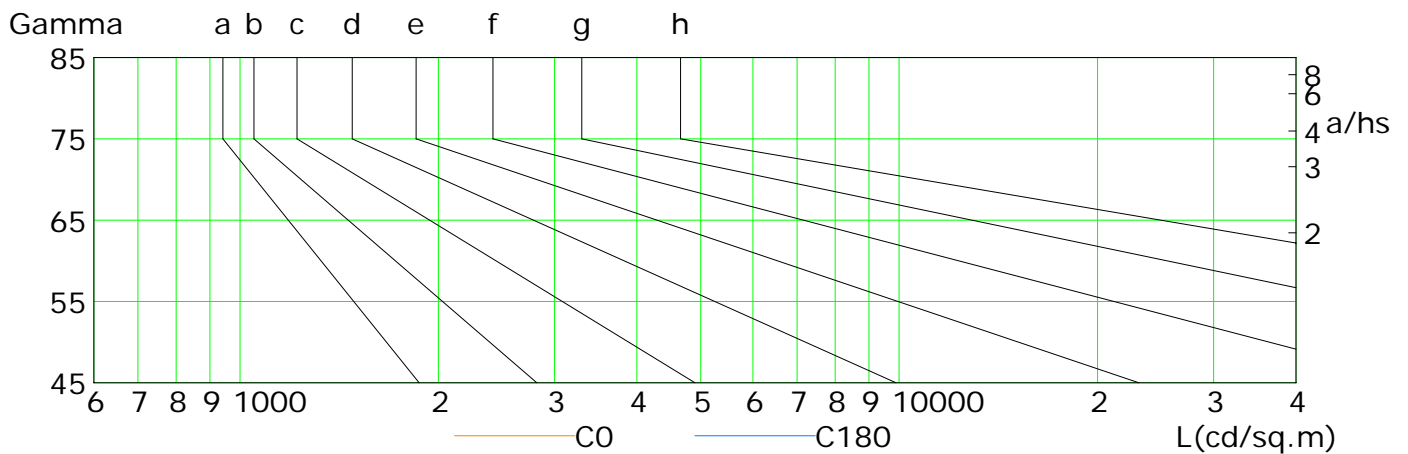
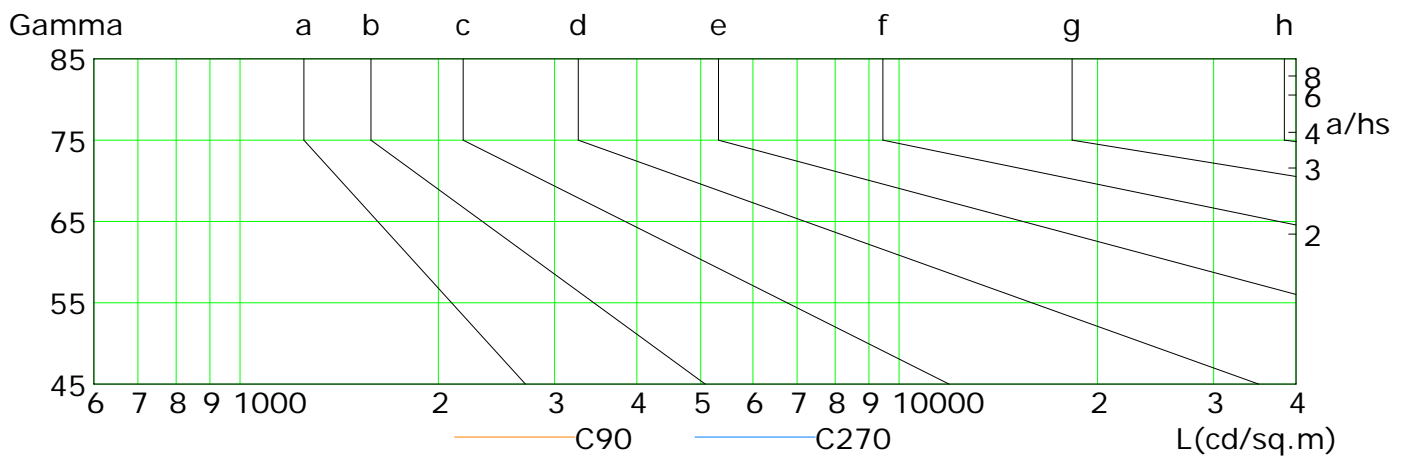
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Lum Limit Curve

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	5	4	3	3	2	2	1	1	0
C90	5	3	3	3	2	1	1	1	0
C180	5	3	3	3	2	1	1	1	0
C270	5	4	3	3	2	2	1	1	0

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Illuminance at a Distance

