

astro

PHOTOMETRIC
TEST REPORT

Flux test report

Product Remark

Type:6148

Temperature:Tx=34.0°C Ti=34.7°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-08-01 16:39

CIE Color Parameter

Chromaticity Coordinate: x=0.4302 y=0.4031

u=0.2466 v=0.3467

CCT: Tc= 3109K

Ratio: R=0.237 G=0.740 B=0.023 Peak Wave: 600nm Half Width: 131.9nm

Dominant WL.: 583.1nm Purity: 0.501

Rending Index: Ra= 81.8

R1 =80	R2 =89	R3 =97	R4 =81	R5 =80	R6 =86	R7 =83	R8 =59
R9 =3	R10=75	R11=80	R12=72	R13=81	R14=98	R15=72	

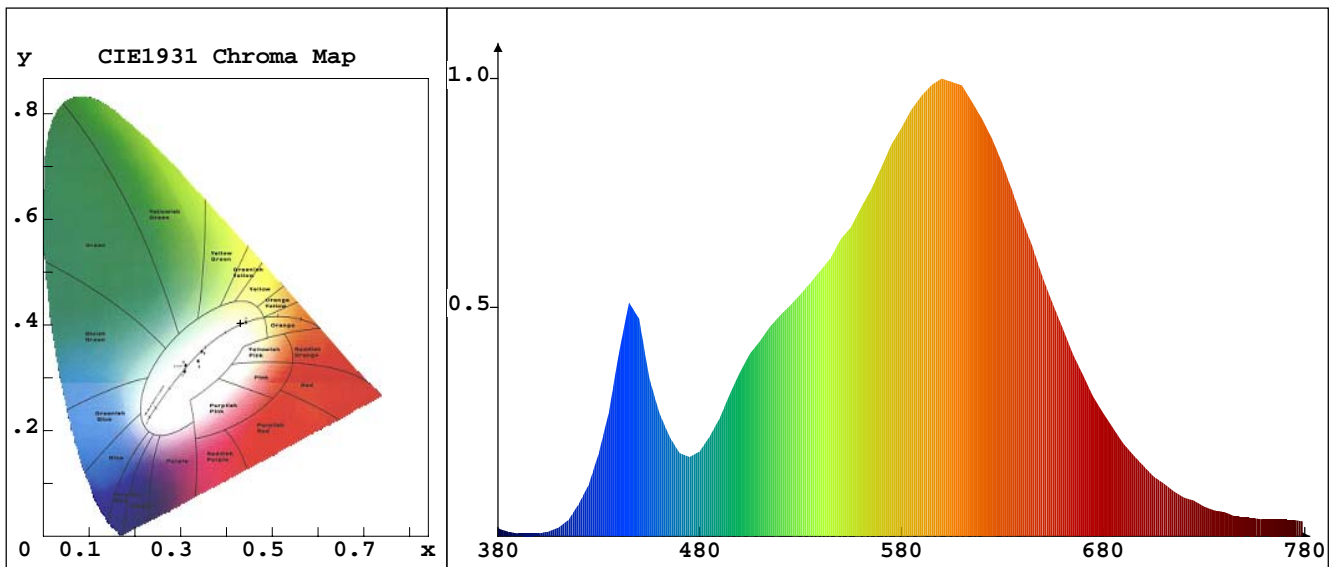


Photo Parameter

Luminous Flux: 575.0 lm

Light Efficiency: 74.7 lm/W

Radiant Power: 1.751 W

Electrical Parameter

Voltage:U=230.0V Current:I=0.035A Power:P= 7.7W Power Factor: Pf=0.950

Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 22

REF: 3023

PMT HV: -577V

Ip: 25497

#: -1.015%

Report No.: 20170806A

Test Time: 2017-08-25 11:01

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: 229.2 V
Power: 7.40 W

Luminaire Description: 6148
Lamp Catalog: LED
Number of Lamps: 1
Luminous Length (mm): -47
Luminous Height (mm): 46
Current: 0.035 A
Power Factor: 0.932

Photometric Results

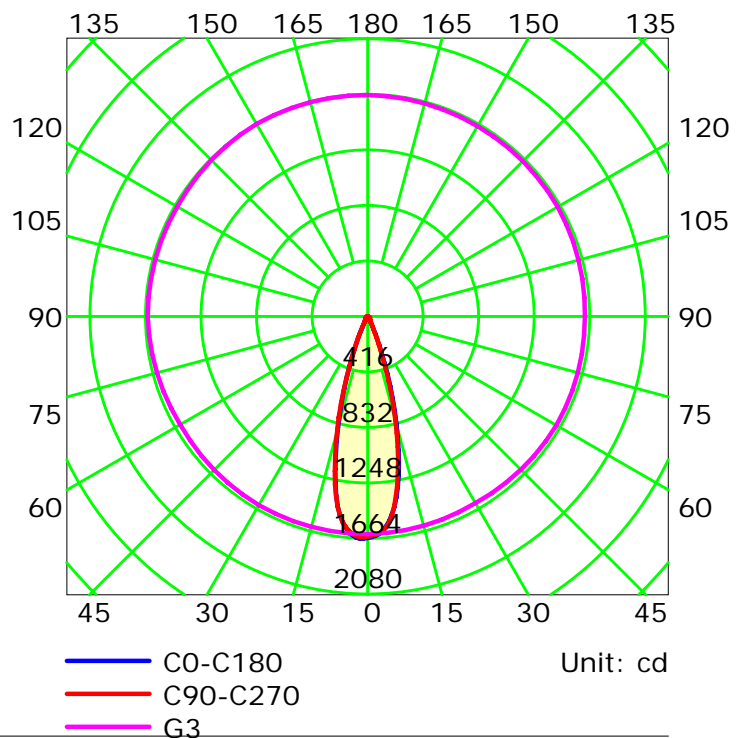
CIE Class: Direct
Measurement Flux: 501.6 lm
Downward Ratio: 77.29%
Luminaire Efficacy Rating (LER): 68
Max. Intensity: 1665.78 cd

Total Rated Lamp Lumens: 649.0 lm
Efficiency: 77.29%
Upward Ratio: 0.00%
Central Intensity: 1659.7 cd
Pos of Max. Intensity: H210 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



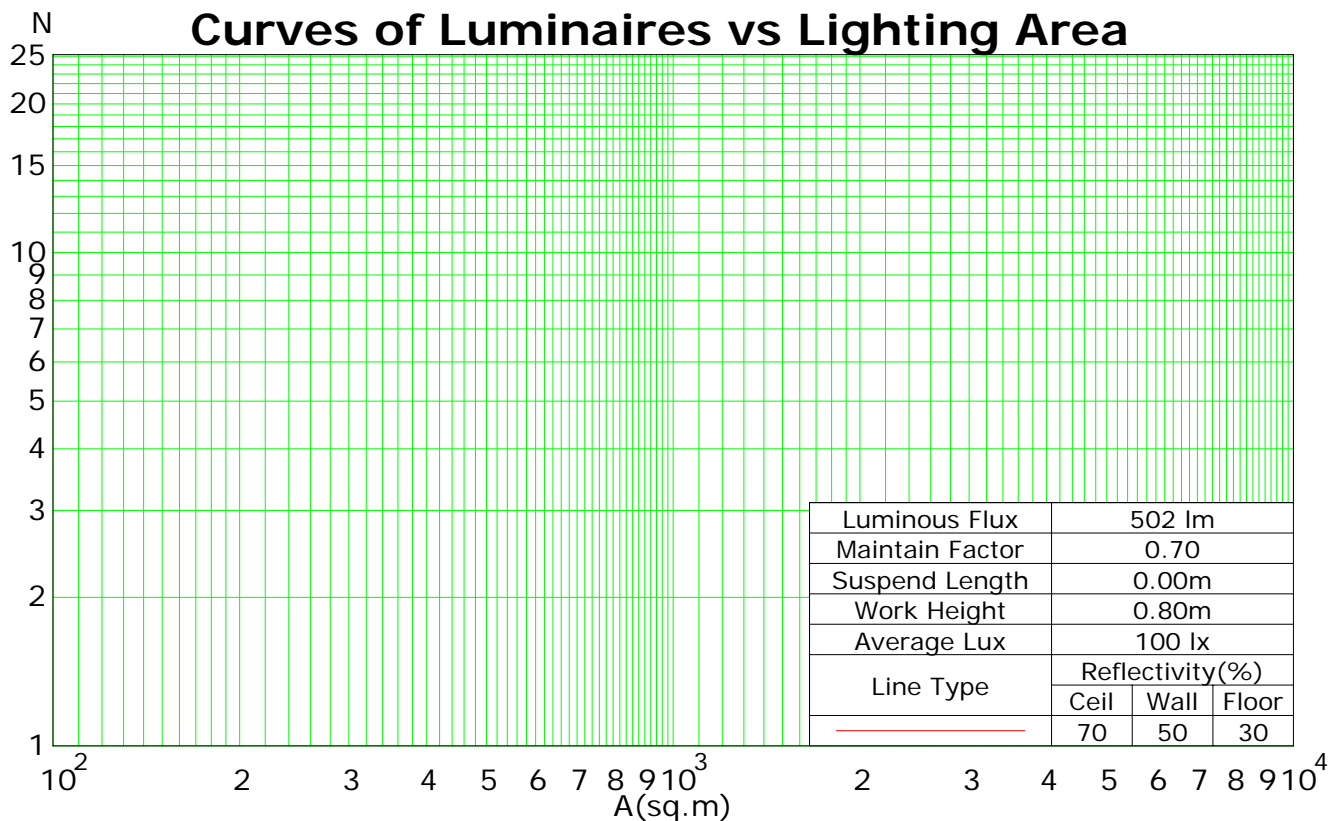
Test Lab: Astro
Test Type: TYPE C
Temperature: 25
Operator:

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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77
1	88	86	85	83	86	85	83	82	82	80	79	79	78	77	76	75	75	73
2	85	81	79	77	83	80	78	76	78	76	74	75	74	72	73	72	71	70
3	81	77	74	71	80	76	73	71	74	72	70	72	70	69	71	69	68	67
4	78	74	70	67	77	73	69	67	71	68	66	70	67	65	68	66	65	64
5	76	70	67	64	75	70	66	64	68	65	63	67	65	63	66	64	62	61
6	73	68	64	61	72	67	63	61	66	63	61	65	62	60	64	62	60	59
7	71	65	61	59	70	65	61	59	64	61	58	63	60	58	62	60	58	57
8	68	63	59	57	68	62	59	56	62	58	56	61	58	56	60	58	56	55
9	66	61	57	55	66	60	57	54	60	56	54	59	56	54	58	56	54	53
10	64	59	55	53	64	58	55	53	58	55	53	57	54	53	57	54	52	52

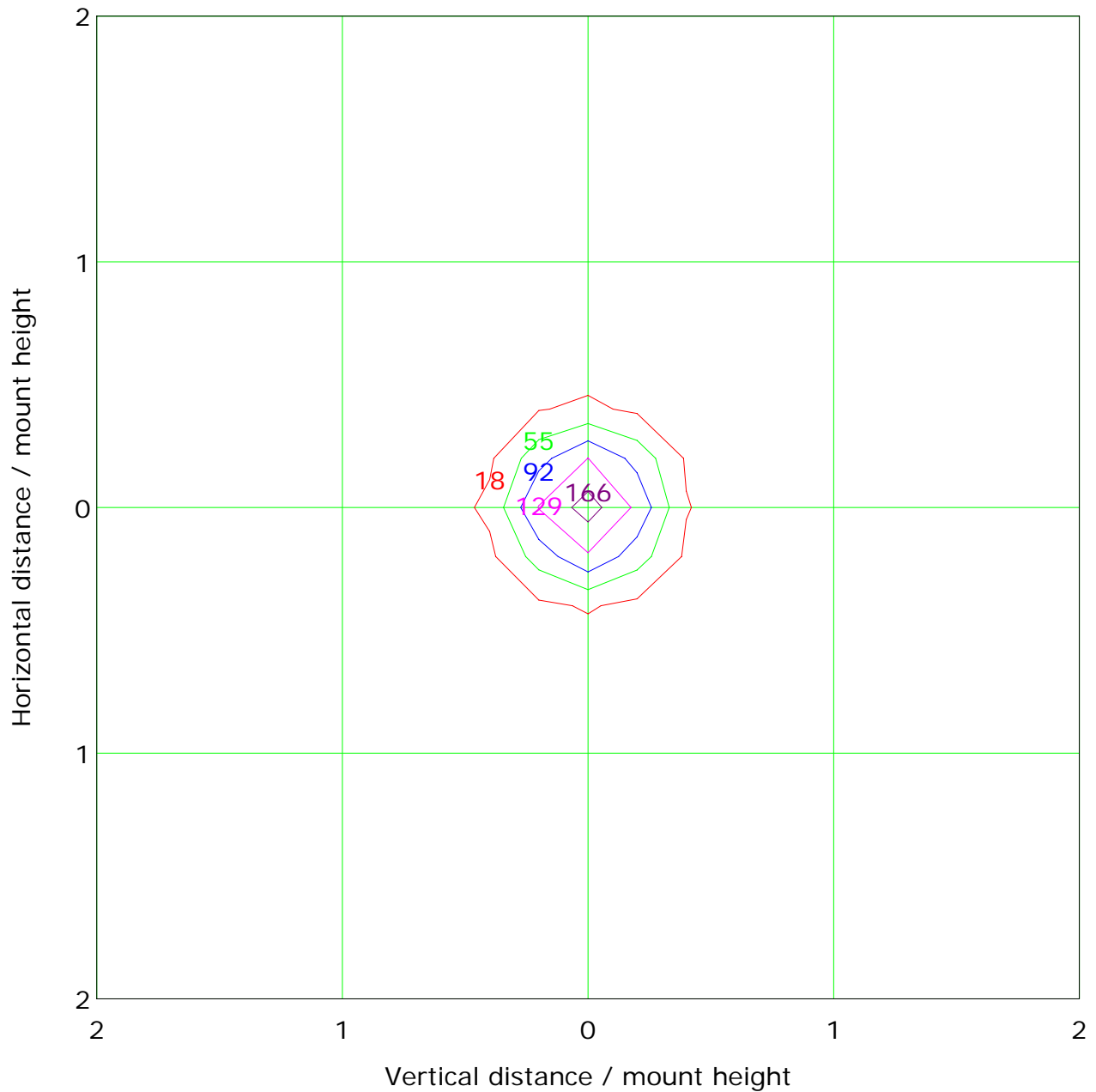
Spacing Criteria (0-180): 0.51
 Spacing Criteria (90-270): 0.51
 Spacing Criteria (Diagonal): 0.48



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IsoLux Plot



Mounting Height: 3m Max Lux(100%): 185 lx

(10%):	18 lx	(30%):	55 lx
(50%):	92 lx	(70%):	129 lx
(90%):	166 lx		

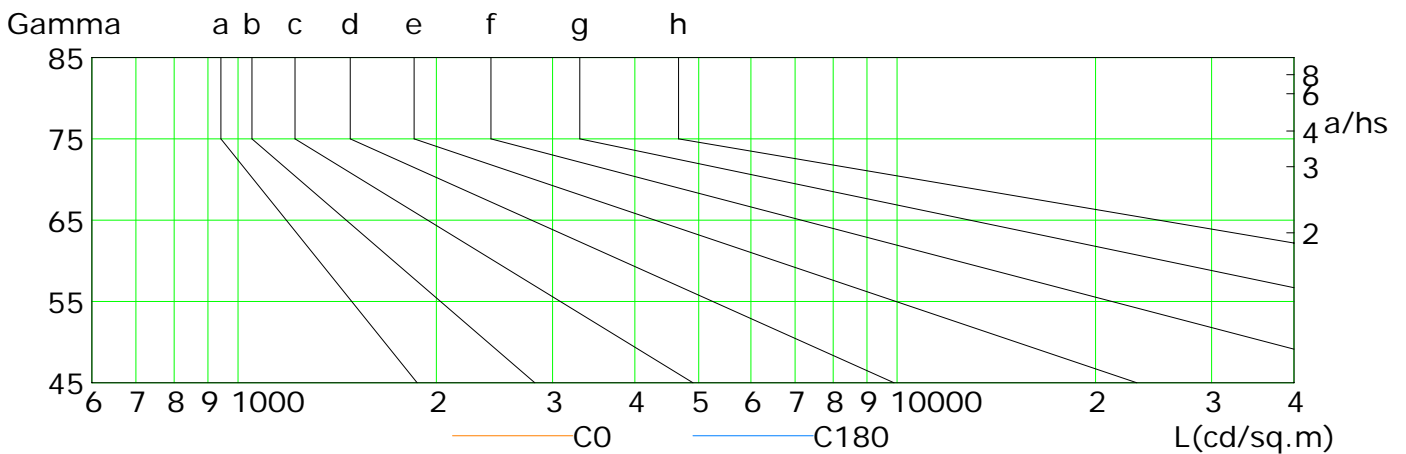
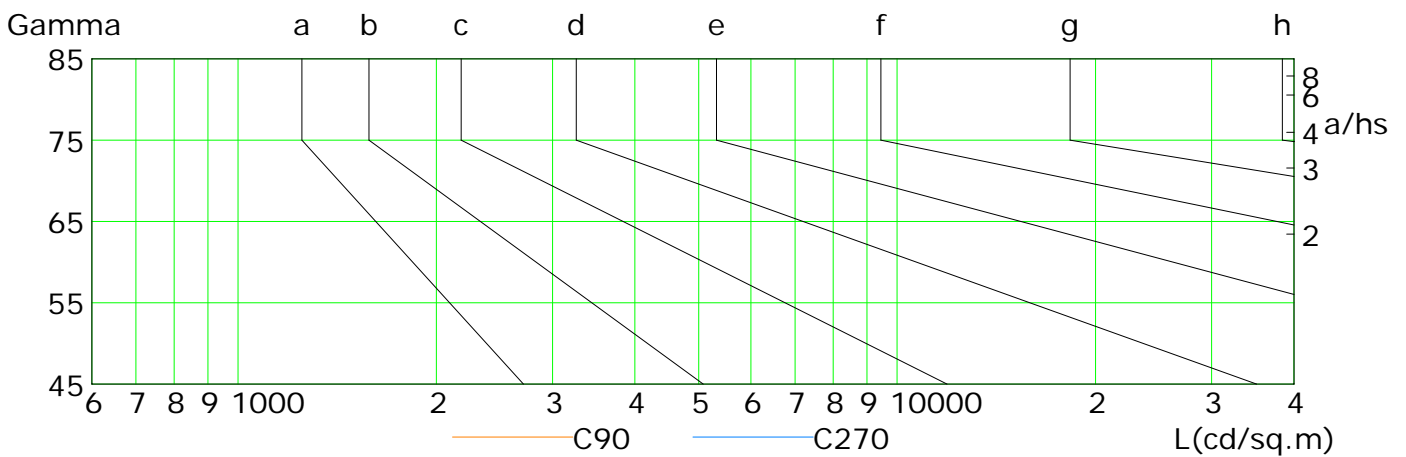
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Lum Limit Curve

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	23	20	16	12	9	6	4	3	1
C90	24	19	16	11	8	6	4	2	1
C180	24	20	16	12	8	6	4	2	1
C270	23	20	16	12	8	6	4	2	1

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Illuminance at a Distance

