

astro

PHOTOMETRIC
TEST REPORT

Flux test report

Product Remark

Type:TE079-025-FW01

Temperature:Tx=31.1°C Ti=31.7°C

Operator:

Manufacturer:ASTRO

Humidity:65%

Test Time:2016-10-09 15:29

CIE Color Parameter

Chromaticity Coordinate: x=0.4547 y=0.4100

u=0.2594 v=0.3509

CCT: Tc= 2769K

Ratio: R=0.264 G=0.716 B=0.019 Peak Wave: 610nm Half Width: 120.9nm

Dominant WL.: 584.8nm Purity: 0.596

Rending Index: Ra= 82.8

R1 =81	R2 =91	R3 =97	R4 =81	R5 =81	R6 =90	R7 =82	R8 =59
R9 =9	R10=80	R11=81	R12=76	R13=83	R14=99	R15=74	

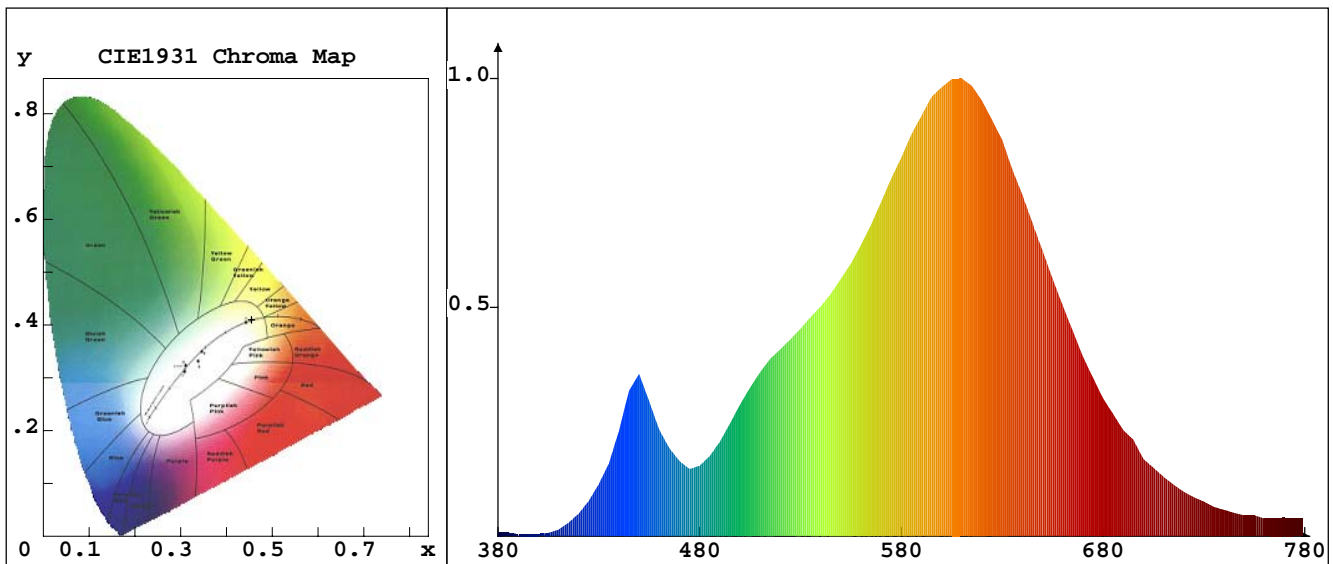


Photo Parameter

Luminous Flux: 501.0 lm

Light Efficiency: 70.6 lm/W

Radiant Power: 1.562 W

Electrical Parameter

Voltage:U= 10.3V Current:I=0.694A Power:P= 7.1W Power Factor: Pf=1.000

Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 15

REF: 3587

PMT HV: -564V

Ip: 25915

#: -1.021%

Report No.: T20160969B

Test Time: 2016-09-23 19:02

Luminaire Property

Luminaire Category: LED RECESSED LIGHT
 Luminaire Manufacturer: ASTRO
 Lamp Description: CXA1304-27G-B4
 Lumens per Lamp: 651
 Luminous Width (mm): -39
 Voltage: 10.2 V
 Power: 7.00 W

Luminaire Description: TE079-025-FW01
 Lamp Catalog: LED
 Number of Lamps: 1
 Luminous Length (mm): -39
 Luminous Height (mm): 22
 Current: 0.692 A
 Power Factor: 1.000

Photometric Results

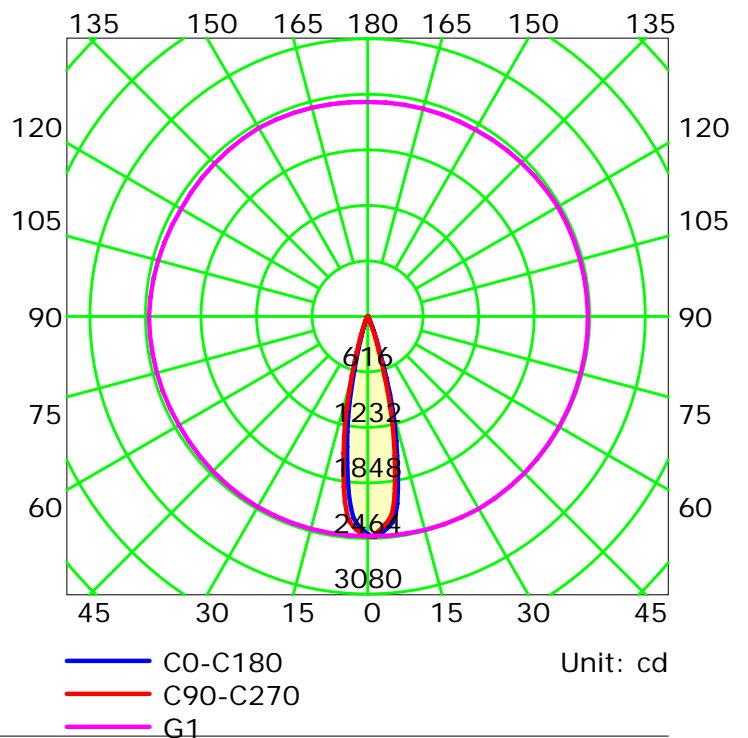
CIE Class: Direct
 Measurement Flux: 493.2 lm
 Downward Ratio: 75.76%
 Luminaire Efficacy Rating (LER): 70
 Max. Intensity: 2464.33 cd

Total Rated Lamp Lumens: 651.0 lm
 Efficiency: 75.76%
 Upward Ratio: 0.00%
 Central Intensity: 2412.68 cd
 Pos of Max. Intensity: H30 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



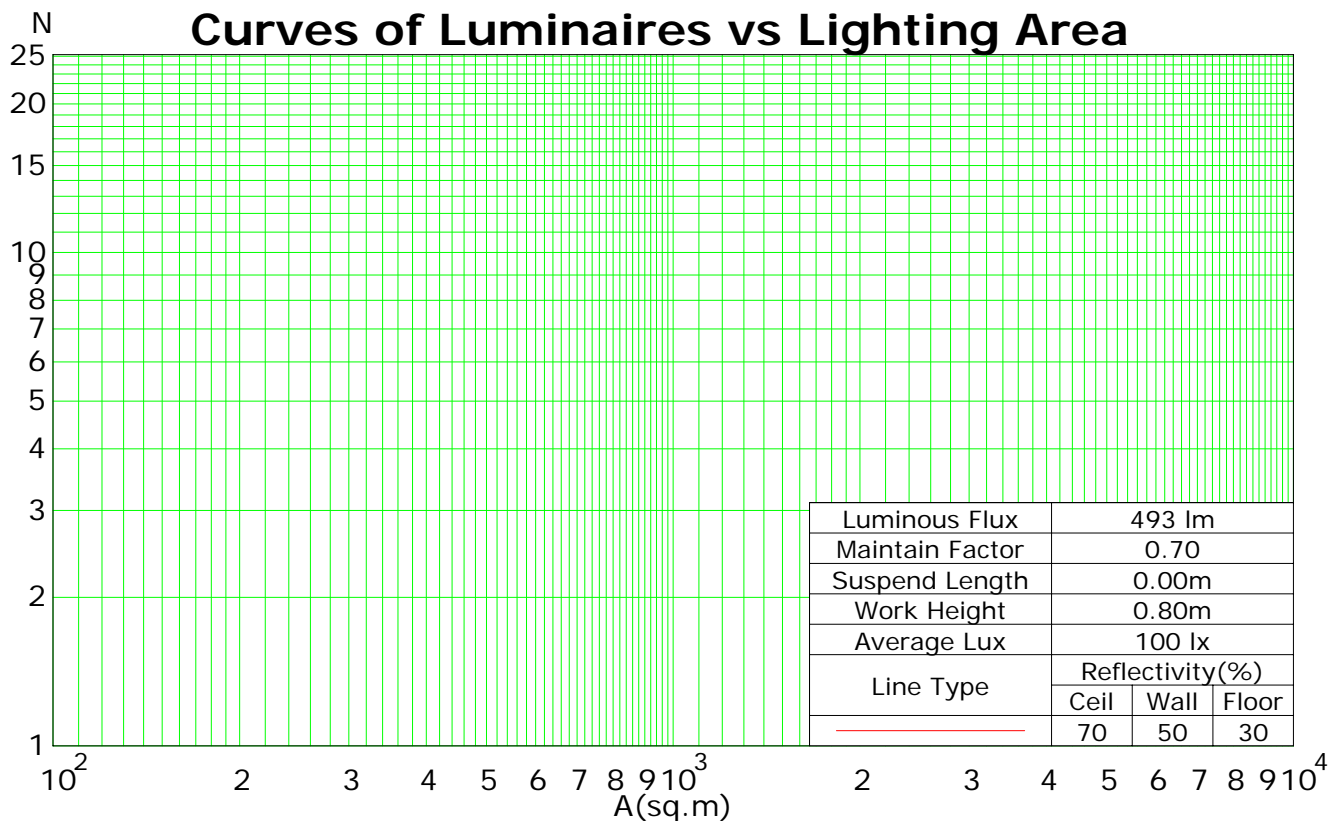
Test Lab: ASTRO
 Test Type: TYPE C
 Temperature: 26

Test Device: GPM-1800
 Distance: 10.150 m
 Humidity: 77
 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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76
1	87	85	84	82	85	84	82	81	81	80	79	78	77	76	75	75	74	73
2	84	81	79	77	82	80	78	76	77	76	74	75	74	73	73	72	71	70
3	81	77	75	72	80	76	74	72	75	72	71	73	71	70	71	70	69	68
4	79	74	71	69	77	74	71	69	72	70	68	71	69	67	69	68	66	65
5	76	72	69	66	75	71	68	66	70	67	65	69	67	65	68	66	64	64
6	74	69	66	64	73	69	66	64	68	65	63	67	65	63	66	64	63	62
7	72	67	64	62	71	67	64	62	66	63	62	65	63	61	65	63	61	60
8	70	65	62	60	70	65	62	60	64	62	60	64	61	60	63	61	59	59
9	69	64	61	59	68	63	61	59	63	60	58	62	60	58	62	60	58	57
10	67	62	59	57	67	62	59	57	61	59	57	61	59	57	60	58	57	56

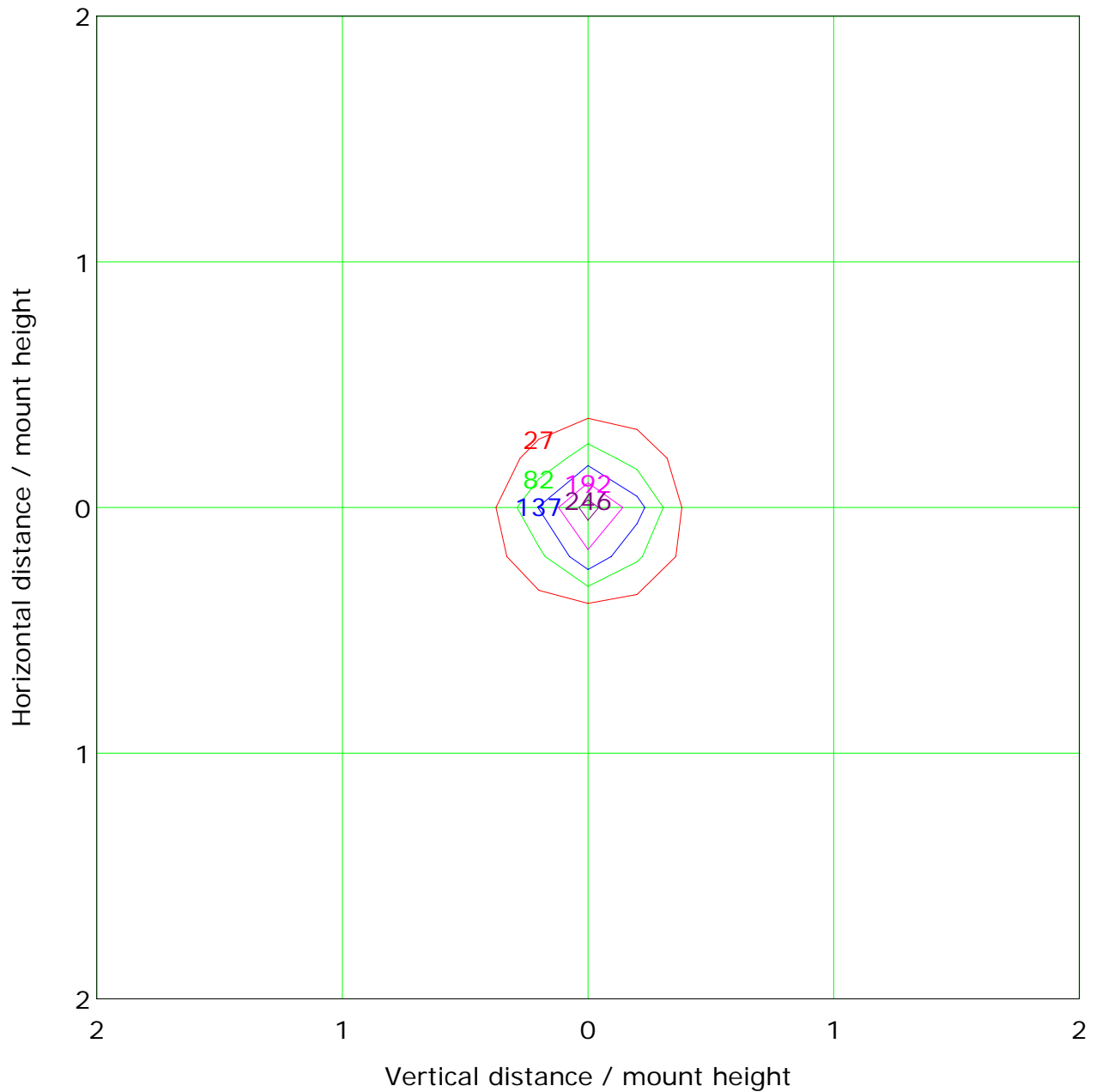
Spacing Criteria (0-180): 0.42
 Spacing Criteria (90-270): 0.43
 Spacing Criteria (Diagonal): 0.40



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IsoLux Plot



Mounting Height: 3m Max Lux(100%): 274 lx

(10%): 27 lx	(30%): 82 lx
(50%): 137 lx	(70%): 192 lx
(90%): 246 lx	

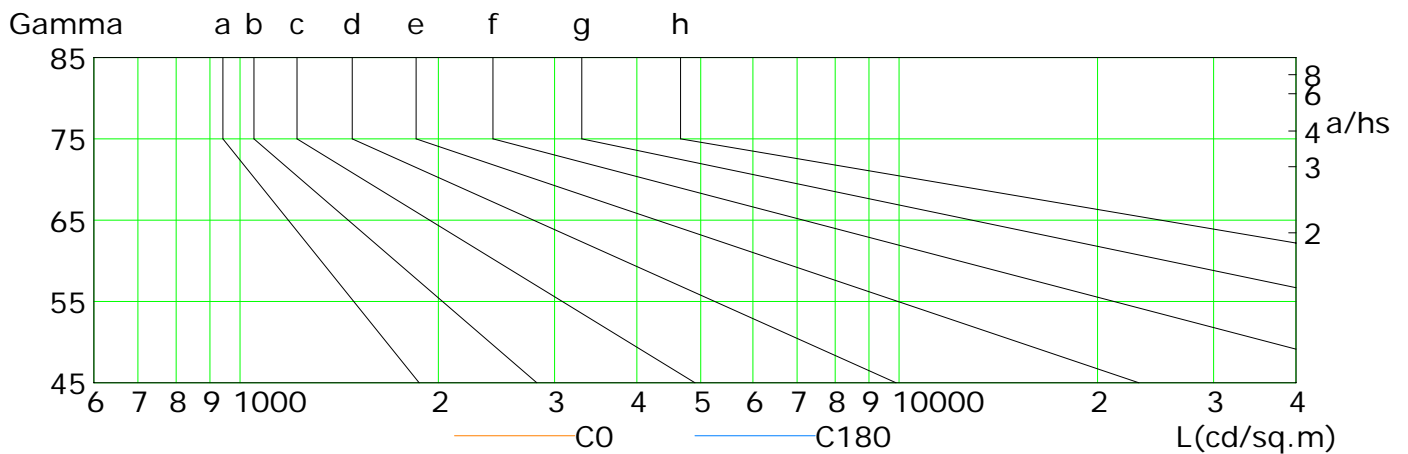
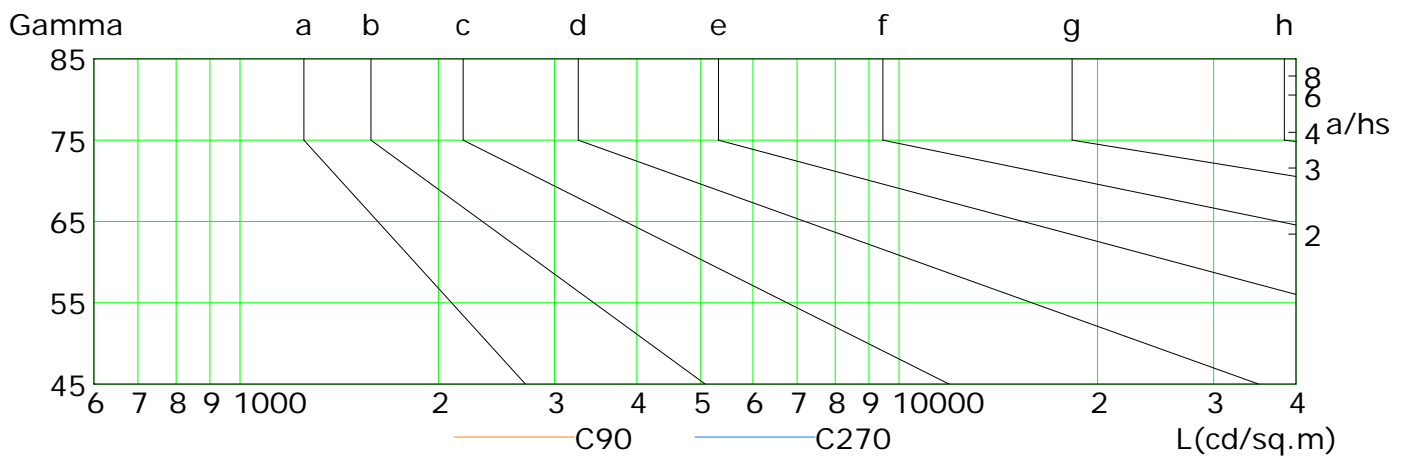
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Lum Limit Curve

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	15	14	11	9	7	5	4	3	1
C90	15	12	10	8	6	5	3	2	1
C180	14	11	9	7	6	4	3	2	1
C270	14	12	9	7	6	4	3	2	1

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Illuminance at a Distance

