

astro

PHOTOMETRIC  
TEST REPORT

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## Flux test report

### Product Remark

Type:7418

Temperature:Tx=33.7°C Ti=34.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-08-01 09:47

### CIE Color Parameter

Chromaticity Coordinate: x=0.4494 y=0.4018

u=0.2597 v=0.3482

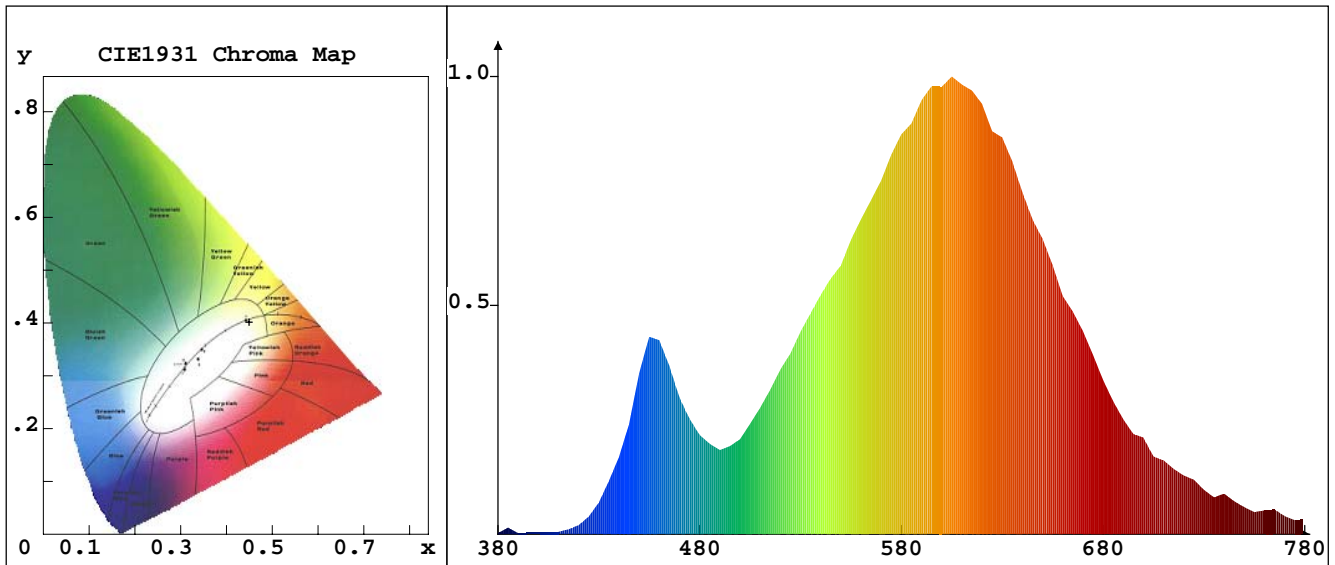
CCT: Tc= 2782K

Ratio: R=0.259 G=0.719 B=0.022 Peak Wave: 605nm Half Width: 125.9nm

Dominant WL.: 585.6nm Purity: 0.555

Rending Index: Ra= 79.8

R1 =78	R2 =90	R3 =96	R4 =74	R5 =77	R6 =87	R7 =80	R8 =56
R9 =6	R10=76	R11=69	R12=68	R13=81	R14=98	R15=73	



### Photo Parameter

Luminous Flux: 35.6 lm

Light Efficiency: 32.4 lm/W

Radiant Power: 0.155 W

### Electrical Parameter

Voltage:U= 3.1V Current:I=0.350A Power:P= 1.1W Power Factor:Pf=1.000

### Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 4

Interval: 5nm

Id: 95

REF: 25633

PMT HV: -848V

Ip: 24619

#: -1.084%

Report No.:

Test Time: 2015-01-30 11:41

## Luminaire Property

Luminaire Category: LED RECESSED LIGHT  
Luminaire Manufacturer: ASTRO  
Lamp Description: XPE  
Lumens per Lamp: 93  
Luminous Width (mm): -20  
Voltage: 3.2 V  
Power: 1.10 W

Luminaire Description: 7418  
Lamp Catalog: LED  
Number of Lamps: 1  
Luminous Length (mm): -20  
Luminous Height (mm): 0  
Current: 0.348 A  
Power Factor: 1.000

## Photometric Results

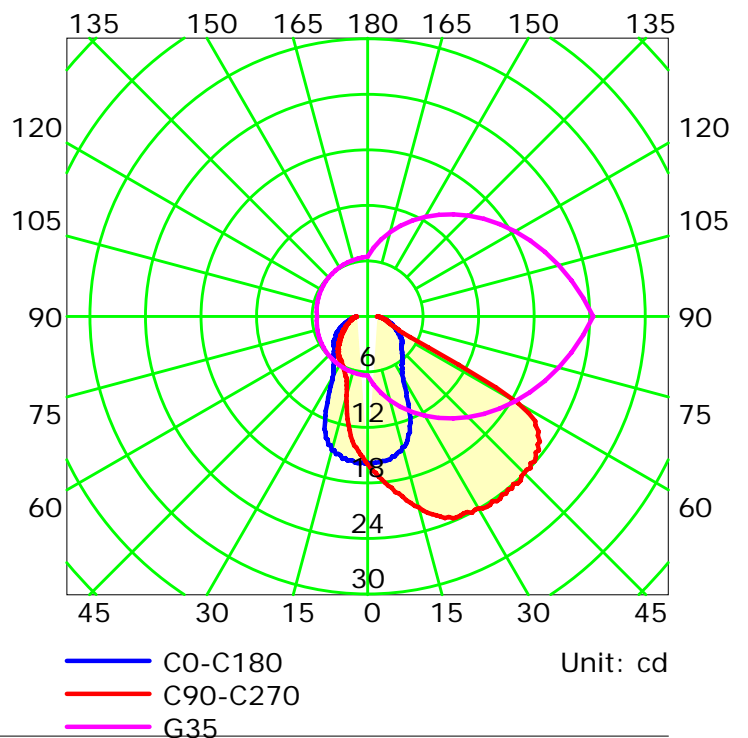
CIE Class: Direct  
Measurement Flux: 41.5 lm  
Downward Ratio: 44.61%  
Luminaire Efficacy Rating (LER): 38  
Max. Intensity: 24.38 cd

Total Rated Lamp Lumens: 93.0 lm  
Efficiency: 44.61%  
Upward Ratio: 0.00%  
Central Intensity: 15.82 cd  
Pos of Max. Intensity: H90 V35

Picture Of Luminaire



Luminous Intensity Distribution Curve



Test Lab: ASTRO  
Test Type: TYPE C  
Temperature: 21

Test Device: GPM-1800  
Distance: 10.167 m  
Humidity: 54  
Inspector:

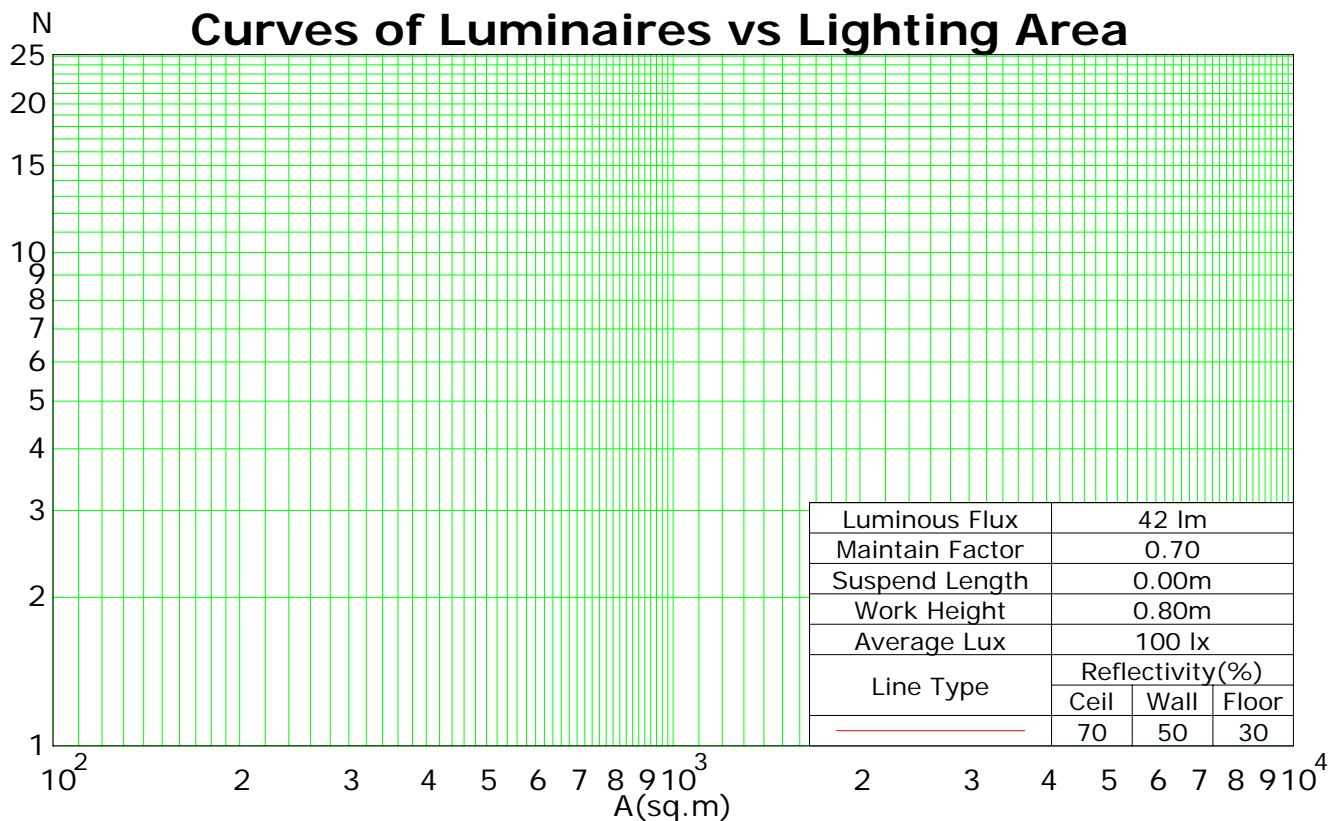
## Coefficients Of Utilization - Zonal Cavity Method

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	53	53	53	53	52	52	52	52	50	50	50	47	47	47	46	46	46	45
1	48	46	44	42	47	45	43	42	43	42	40	41	40	39	40	39	38	37
2	44	40	37	35	43	39	37	34	38	35	33	36	34	33	35	33	32	31
3	40	35	32	29	39	35	31	29	33	30	28	32	30	28	31	29	27	26
4	37	31	27	24	36	31	27	24	30	26	24	29	26	24	28	25	23	22
5	34	28	24	21	33	28	24	21	27	23	21	26	23	21	25	22	20	19
6	31	25	21	18	30	25	21	18	24	21	18	23	20	18	23	20	18	17
7	29	23	19	16	28	23	19	16	22	19	16	21	18	16	21	18	16	15
8	27	21	17	15	26	21	17	14	20	17	14	19	16	14	19	16	14	13
9	25	19	16	13	25	19	15	13	18	15	13	18	15	13	18	15	13	12
10	24	18	14	12	23	18	14	12	17	14	12	17	14	12	16	14	12	11

Spacing Criteria (0-180): 0.92

Spacing Criteria (90-270): 1.43

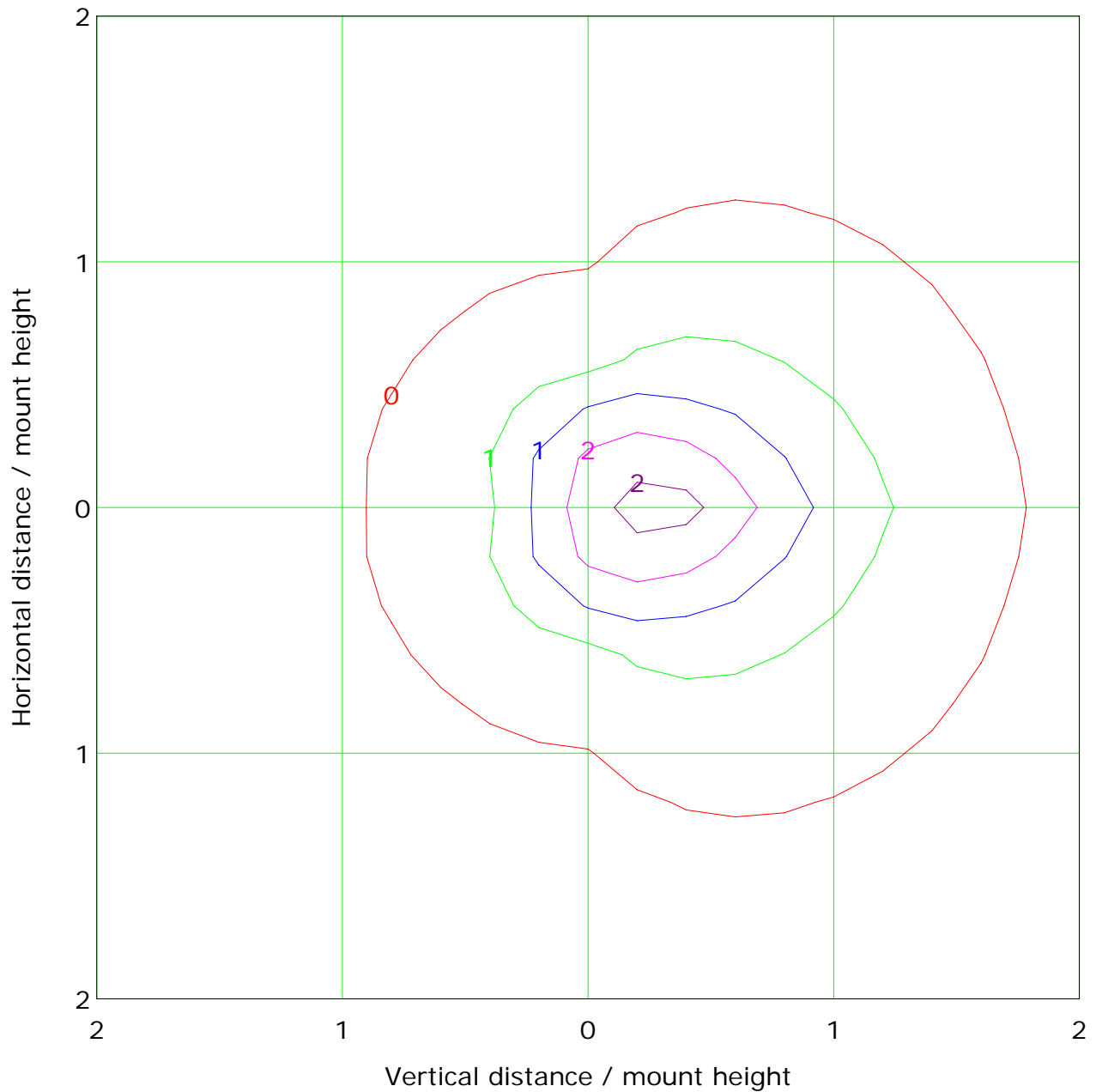
Spacing Criteria (Diagonal): 1.31



Test Lab: ASTRO  
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 Inspector:

## IsoLux Plot



Mounting Height: 3m    Max Lux(100%): 2 lx

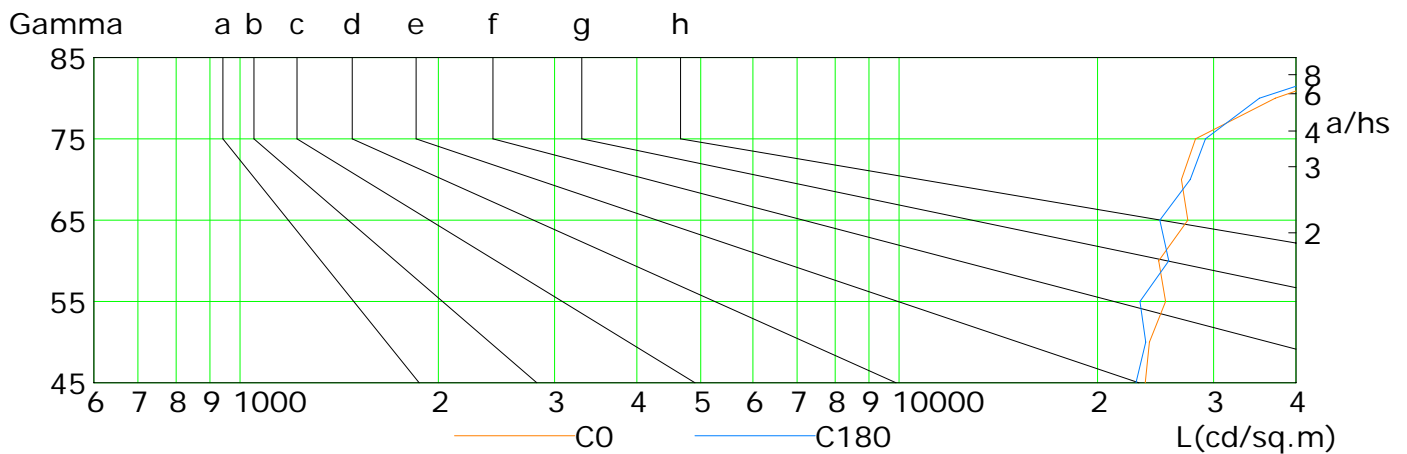
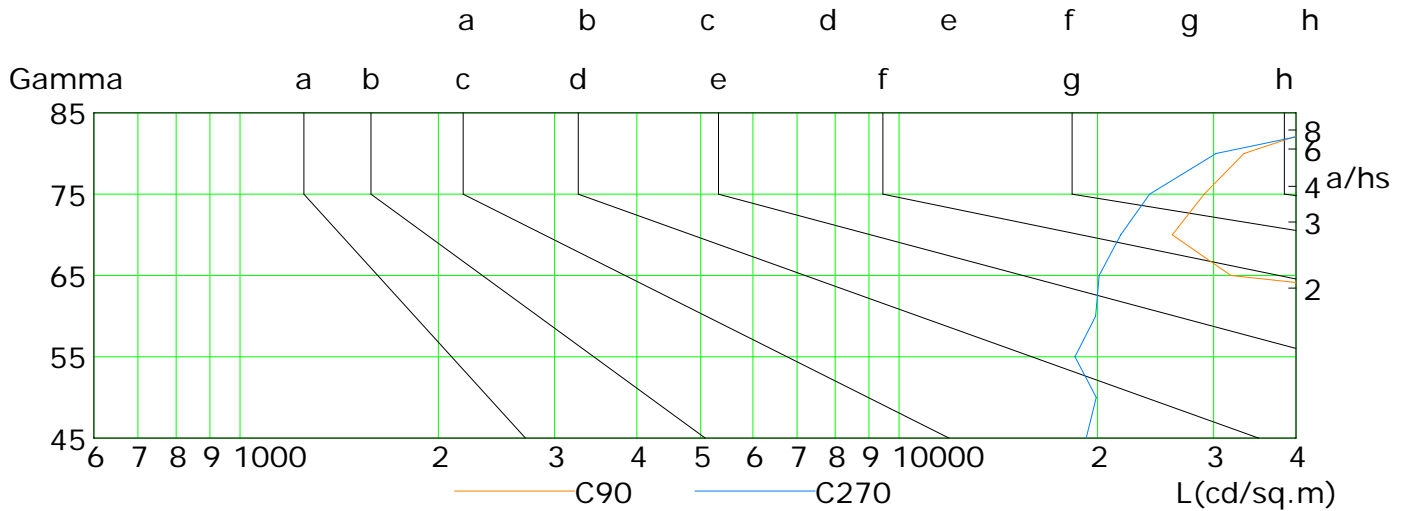
( 10%):	0 lx	( 30%):	1 lx
( 50%):	1 lx	( 70%):	2 lx
( 90%):	2 lx		

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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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	23633	23968	25362	24765	27416	26803	28164	37211	55879
C90	107678	117561	124588	119494	31860	25966	29025	33362	51131
C180	22868	23671	23197	25656	24855	27641	29148	35195	54053
C270	19222	19907	18480	19863	20110	21685	23982	30246	59896

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## Illuminance at a Distance

