

astro

PHOTOMETRIC  
TEST REPORT

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## Flux test report

### Product Remark

Type:5753

Temperature:Tx=34.7°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 18:35

### CIE Color Parameter

Chromaticity Coordinate: x=0.4367 y=0.4074

u=0.2490 v=0.3484

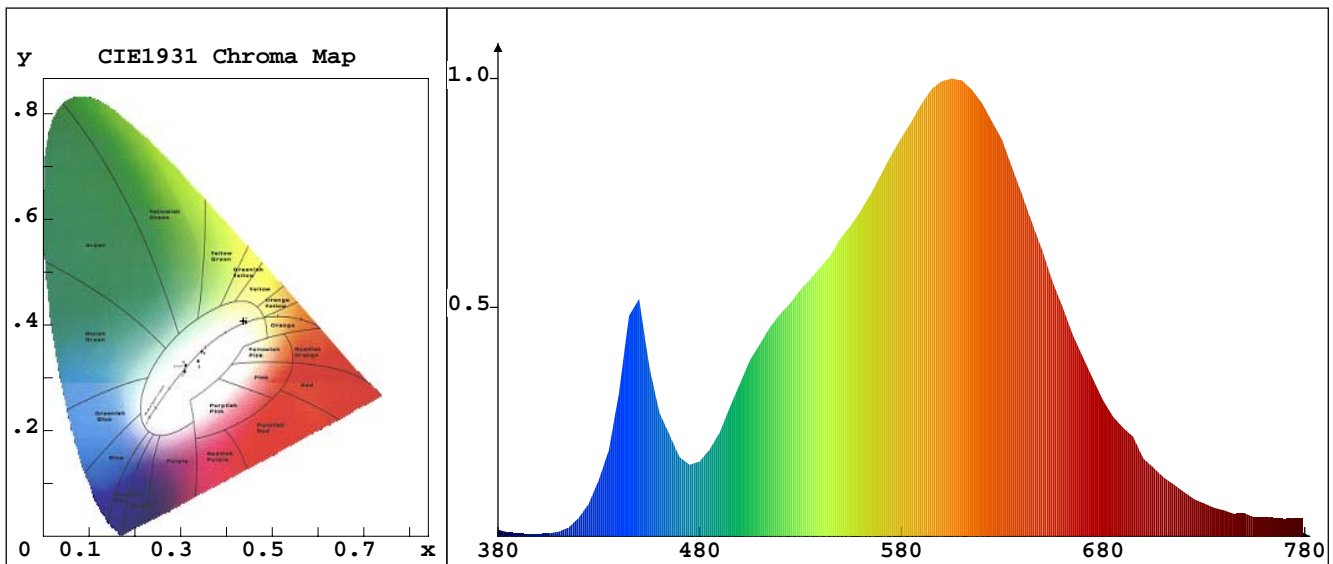
CCT: Tc= 3031K

Ratio: R=0.245 G=0.735 B=0.021 Peak Wave: 605nm Half Width: 137.0nm

Dominant WL.: 583.2nm Purity: 0.534

Rending Index: Ra= 83.2

R1 =82	R2 =89	R3 =97	R4 =83	R5 =81	R6 =87	R7 =85	R8 =63
R9 =12	R10=76	R11=82	R12=70	R13=83	R14=98	R15=75	



### Photo Parameter

Luminous Flux: 755.0 lm

Light Efficiency: 123.8 lm/W

Radiant Power: 2.322 W

### Electrical Parameter

Voltage:U= 17.5V Current:I=0.350A Power:P= 6.1W Power Factor: Pf=1.000

### Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 18

REF: 3977

PMT HV: -572V

Ip: 25574

#: -0.426%

Report No.:

Test Time: 2017-05-25 09:21

## Luminaire Property

Luminaire Category: LED RECESSED LIGHT  
 Luminaire Manufacturer: ASTRO  
 Lamp Description: CXA1512-3000K  
 Lumens per Lamp: 862  
 Luminous Width (mm): 90  
 Voltage: 17.9 V  
 Power: 6.10 W

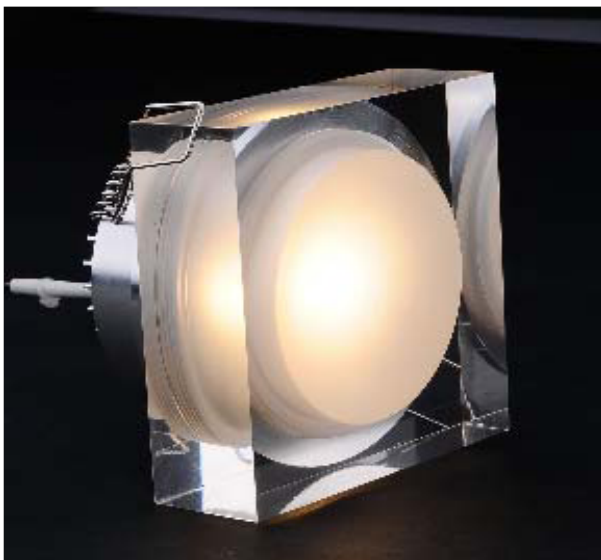
Luminaire Description: 5753  
 Lamp Catalog: LED  
 Number of Lamps: 1  
 Luminous Length (mm): 90  
 Luminous Height (mm): 28  
 Current: 0.340 A  
 Power Factor: 1.000

## Photometric Results

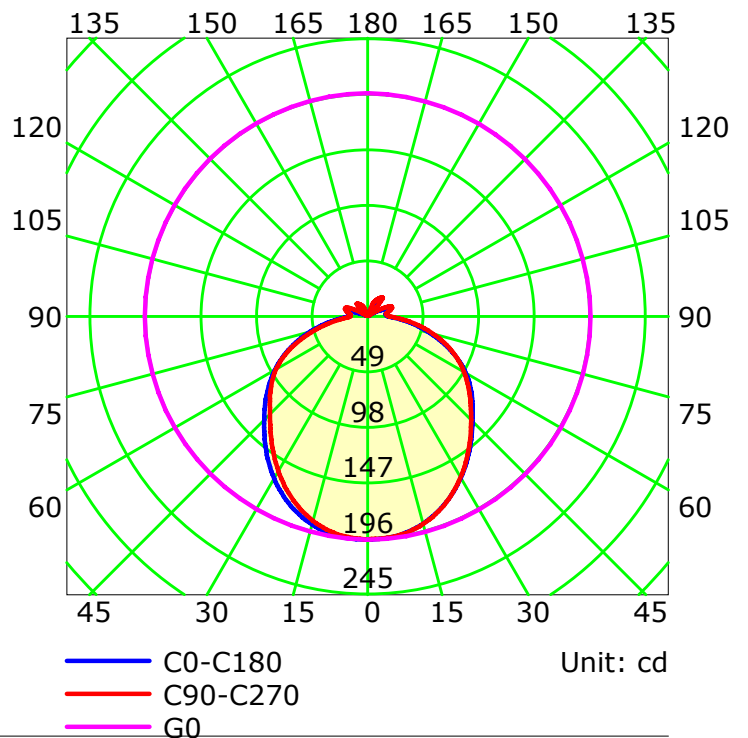
CIE Class: Semi-Direct  
 Measurement Flux: 738.3 lm  
 Downward Ratio: 75.70%  
 Luminaire Efficacy Rating (LER): 121  
 Max. Intensity: 197.03 cd

Total Rated Lamp Lumens: 862.0 lm  
 Efficiency: 85.65%  
 Upward Ratio: 9.95%  
 Central Intensity: 197.02 cd  
 Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



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

Test Device: GPM-1800  
 Distance: 10.098 m  
 Humidity: 52  
 Inspector:

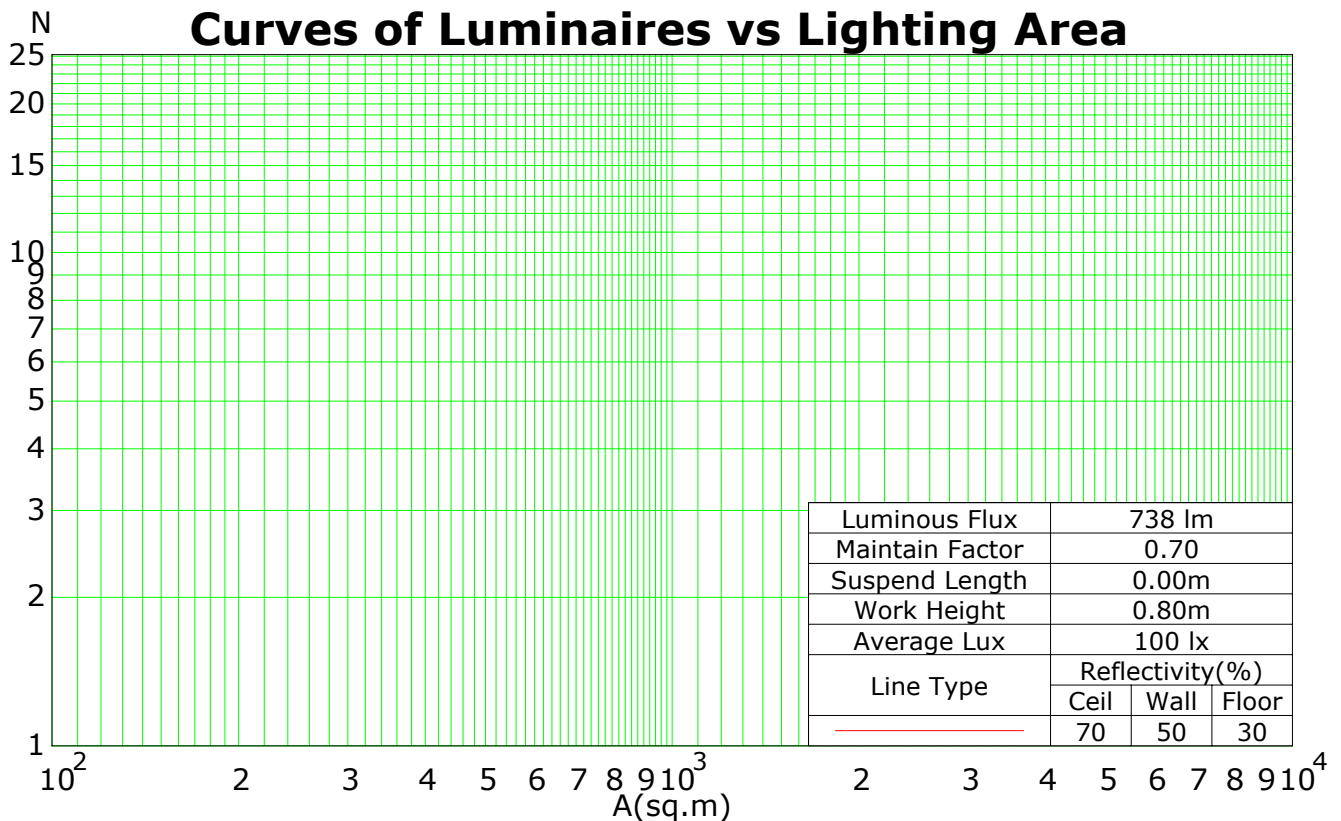
## Coefficients Of Utilization - Zonal Cavity Method

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	100	100	100	100	96	96	96	96	90	90	90	84	84	84	78	78	78	76
1	89	84	80	76	86	81	77	74	76	73	70	71	68	66	66	64	62	60
2	80	72	66	60	77	70	64	59	65	60	56	61	57	53	57	54	51	48
3	73	63	55	49	70	61	54	48	57	51	46	53	48	44	50	46	42	40
4	66	55	47	41	63	54	46	40	50	44	39	47	42	37	44	39	36	33
5	61	49	41	35	58	48	40	35	45	38	33	42	36	32	39	35	31	29
6	56	44	36	30	54	43	35	30	40	34	29	38	32	28	36	31	27	25
7	52	40	32	27	50	39	31	26	36	30	25	34	29	25	32	27	24	22
8	48	36	29	24	46	35	28	23	33	27	23	31	26	22	30	25	21	19
9	45	33	26	21	43	32	26	21	31	25	20	29	24	20	27	23	19	17
10	42	31	24	19	41	30	23	19	28	22	18	27	22	18	25	21	17	16

Spacing Criteria (0-180): 1.24

Spacing Criteria (90-270): 1.22

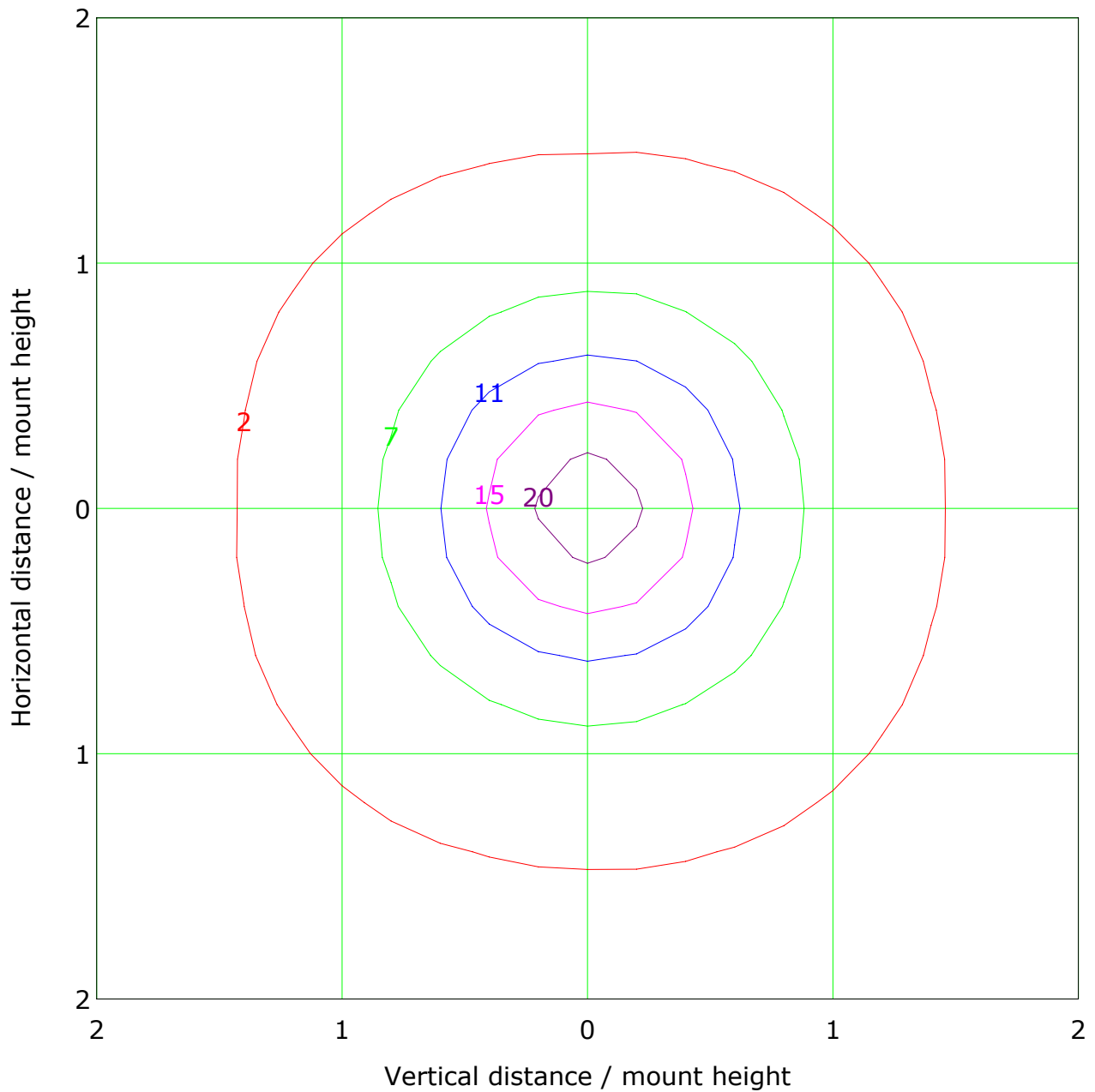
Spacing Criteria (Diagonal): 1.38



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## IsoLux Plot



Mounting Height: 3m    Max Lux(100%): 22 lx

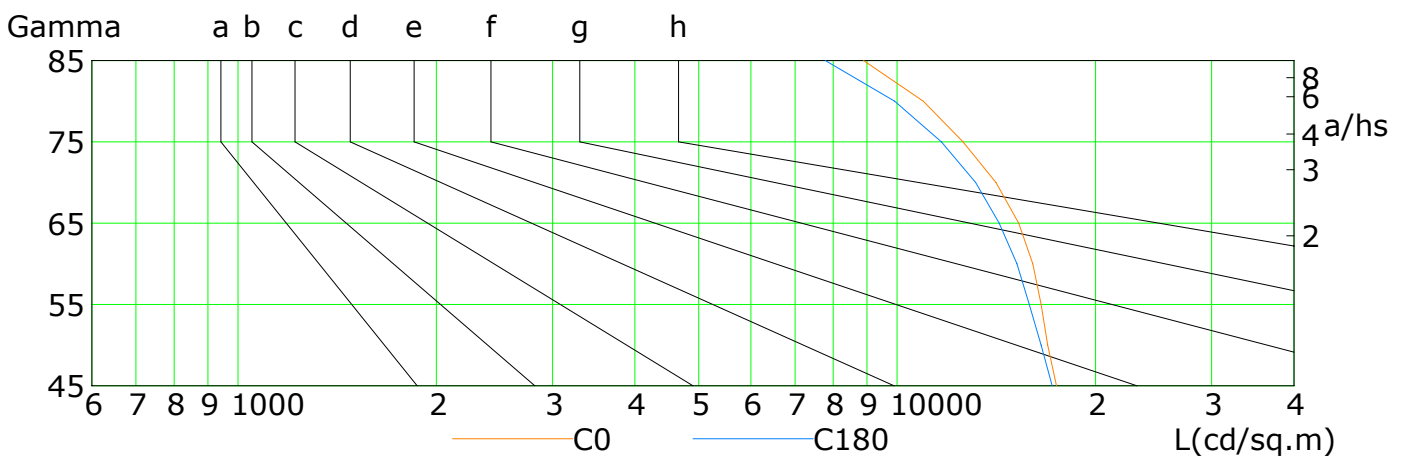
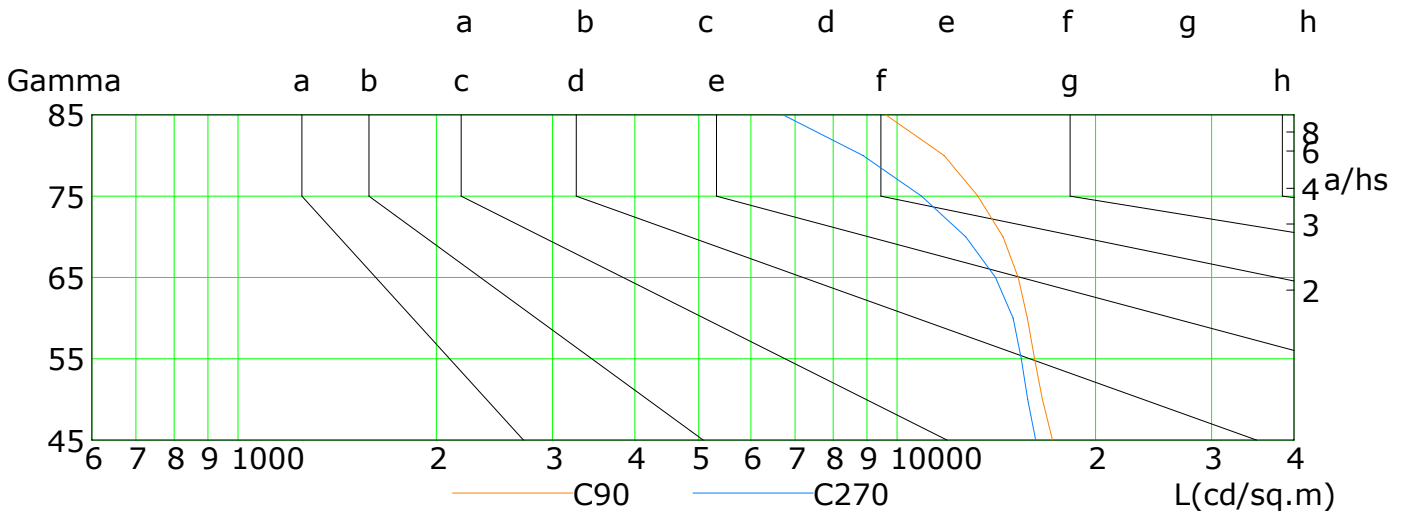
( 10%):	2 lx	( 30%):	7 lx
( 50%):	11 lx	( 70%):	15 lx
( 90%):	20 lx		

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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	17446	16920	16540	16063	15288	14125	12588	10956	8892
C90	17210	16611	16165	15758	15267	14479	13261	11782	9613
C180	17186	16541	15870	15198	14280	13158	11672	9912	7782
C270	16222	15774	15432	14993	14100	12708	10890	8875	6713

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## Illuminance at a Distance

