

astro

PHOTOMETRIC  
TEST REPORT

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## Flux test report

### Product Remark

Type:5757

Temperature:Tx=34.7°C Ti=35.5°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 20:22

### CIE Color Parameter

Chromaticity Coordinate: x=0.4565 y=0.4107

u=0.2603 v=0.3513

CCT: Tc= 2749K

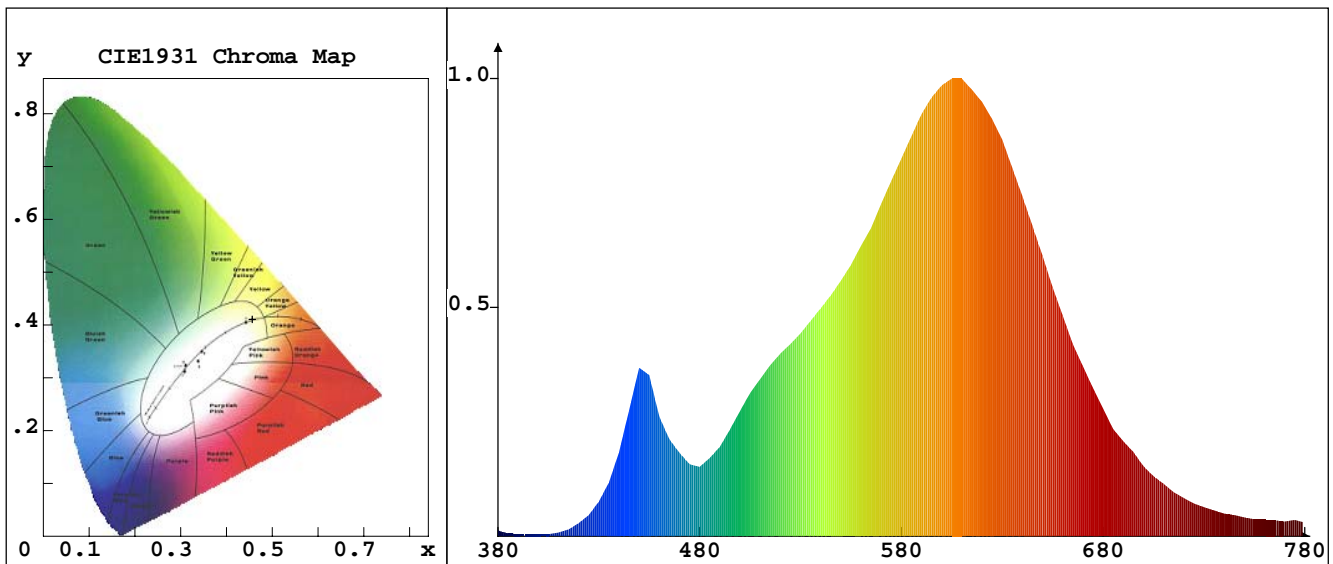
Ratio: R=0.266 G=0.715 B=0.019 Peak Wave: 605nm Half Width: 118.2nm

Dominant WL.: 584.9nm Purity: 0.603

Rending Index: Ra= 82.2

R1 =81 R2 =91 R3 =97 R4 =80 R5 =81 R6 =90 R7 =81 R8 =58

R9 =7 R10=79 R11=79 R12=74 R13=83 R14=99 R15=73



### Photo Parameter

Luminous Flux: 1122.5 lm

Light Efficiency: 90.5 lm/W

Radiant Power: 3.446 W

### Electrical Parameter

Voltage:U= 35.5V Current:I=0.350A Power:P= 12.4W Power Factor: Pf=1.000

### Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 17

REF: 6008

PMT HV: -530V

Ip: 19330

#: 2.002%

## Flux test report

### Product Remark

Type:5758

Temperature:Tx=34.7°C Ti=35.2°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 19:50

### CIE Color Parameter

Chromaticity Coordinate: x=0.4566 y=0.4132

u=0.2592 v=0.3519

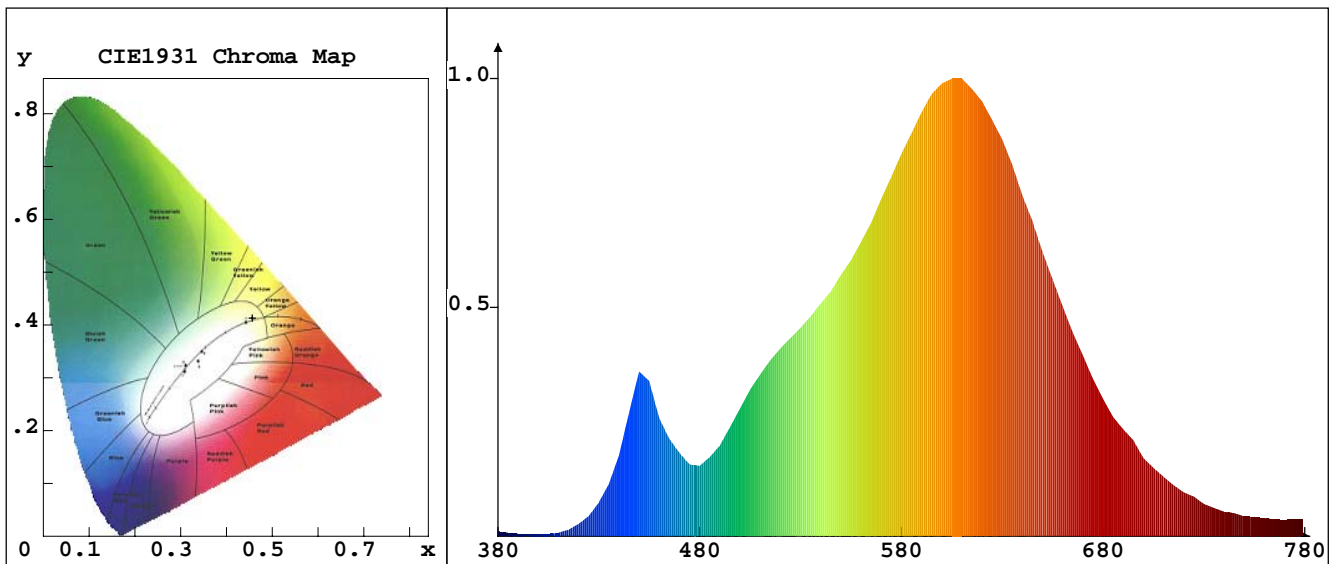
CCT: Tc= 2767K

Ratio: R=0.263 G=0.717 B=0.019 Peak Wave: 610nm Half Width: 121.7nm

Dominant WL.: 584.5nm Purity: 0.611

Rending Index: Ra= 82.4

R1 =81	R2 =91	R3 =97	R4 =80	R5 =81	R6 =89	R7 =82	R8 =58
R9 =8	R10=79	R11=80	R12=73	R13=83	R14=99	R15=73	



### Photo Parameter

Luminous Flux: 1103.7 lm

Light Efficiency: 89.0 lm/W

Radiant Power: 3.409 W

### Electrical Parameter

Voltage:U= 35.5V Current:I=0.350A Power:P= 12.4W Power Factor: Pf=1.000

### Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 17

REF: 5800

PMT HV: -532V

Ip: 25296

#: -0.600%

Report No.:

Test Time: 2017-05-18 15:42

## Luminaire Property

Luminaire Category: LED RECESSED LIGHT  
Luminaire Manufacturer: ASTRO  
Lamp Description: CXA1507-2700K  
Lumens per Lamp: 755  
Luminous Width (mm): -58  
Voltage: 18.4 V  
Power: 12.70 W

Luminaire Description: 5757  
Lamp Catalog: LED  
Number of Lamps: 2  
Luminous Length (mm): -58  
Luminous Height (mm): 33  
Current: 0.689 A  
Power Factor: 1.000

## Photometric Results

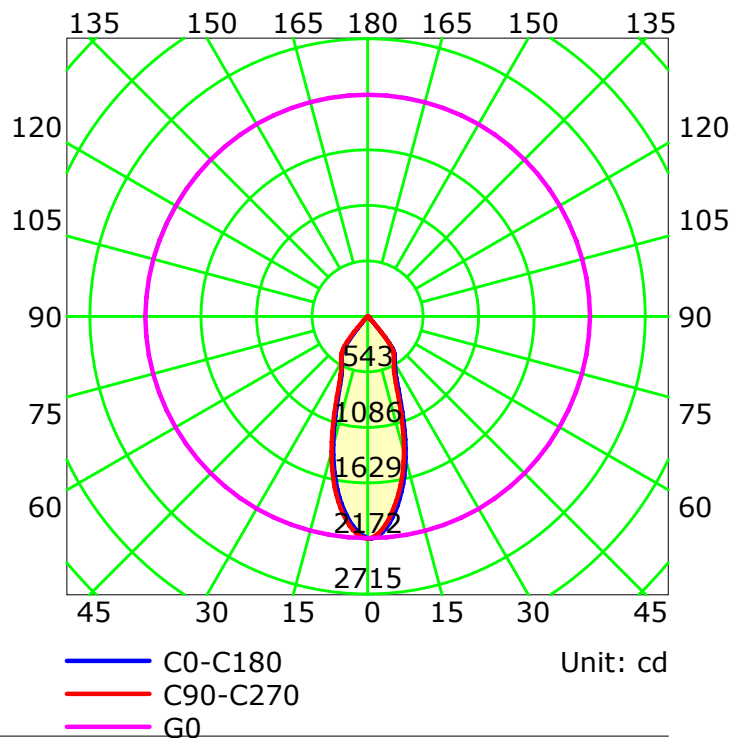
CIE Class: Direct  
Measurement Flux: 1197 lm  
Downward Ratio: 79.27%  
Luminaire Efficacy Rating (LER): 94  
Max. Intensity: 2173.72 cd

Total Rated Lamp Lumens: 1510.0 lm  
Efficiency: 79.27%  
Upward Ratio: 0.00%  
Central Intensity: 2167.53 cd  
Pos of Max. Intensity: H90 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:

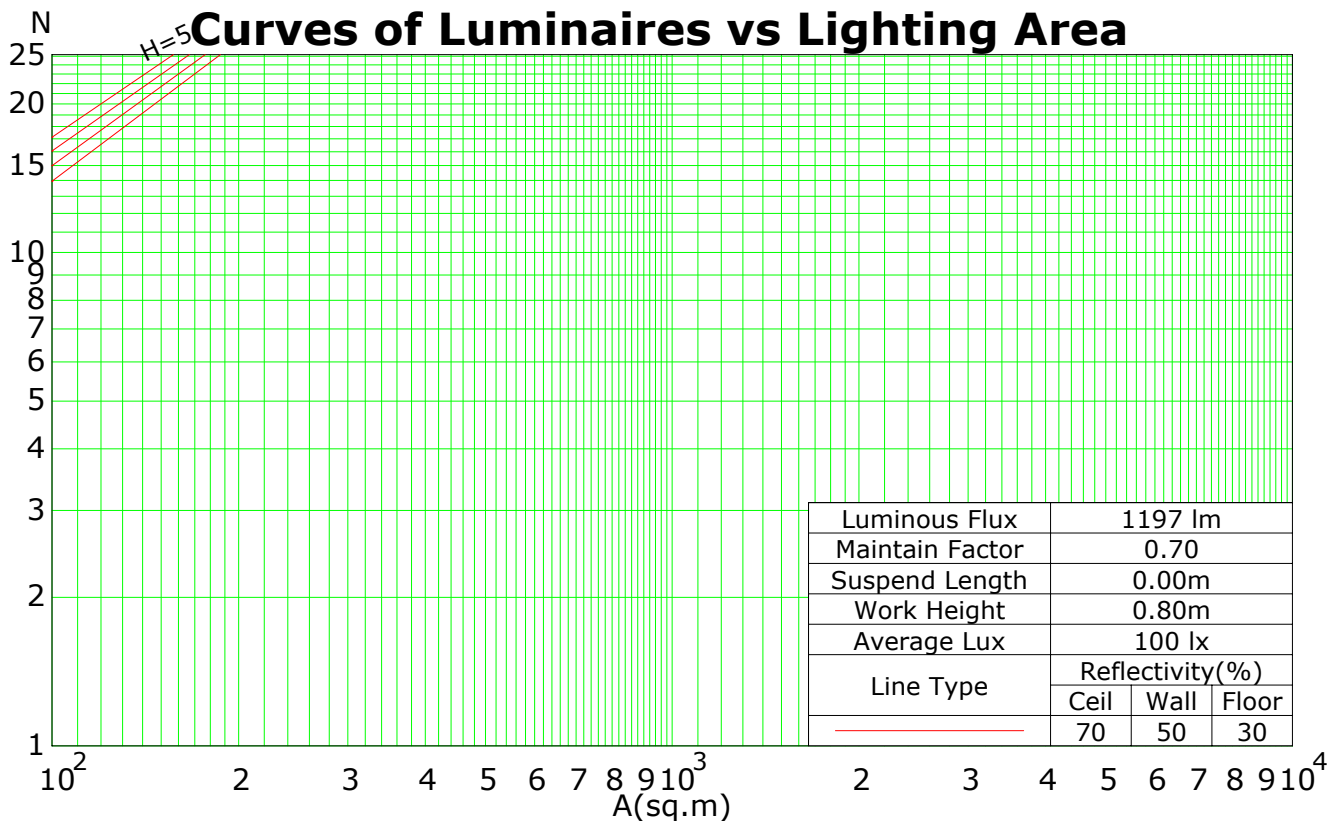
## Coefficients Of Utilization - Zonal Cavity Method

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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79
1	90	88	86	84	88	86	85	83	83	82	81	80	79	78	78	77	76	75
2	86	82	79	77	84	81	78	76	78	76	74	76	74	73	74	72	71	70
3	82	77	73	70	80	76	73	70	74	71	69	72	70	68	70	68	67	65
4	78	72	68	65	77	71	68	65	70	66	64	68	65	63	67	64	62	61
5	74	68	64	60	73	67	63	60	66	62	60	65	62	59	63	61	59	57
6	71	64	60	56	70	64	59	56	62	59	56	61	58	56	60	57	55	54
7	68	61	56	53	67	60	56	53	59	55	53	58	55	52	57	54	52	51
8	65	57	53	50	64	57	53	50	56	52	50	55	52	49	55	52	49	48
9	62	55	50	47	61	54	50	47	53	50	47	53	49	47	52	49	47	46
10	59	52	48	45	58	52	47	45	51	47	44	50	47	44	50	47	44	43

Spacing Criteria (0-180): 0.59

Spacing Criteria (90-270): 0.59

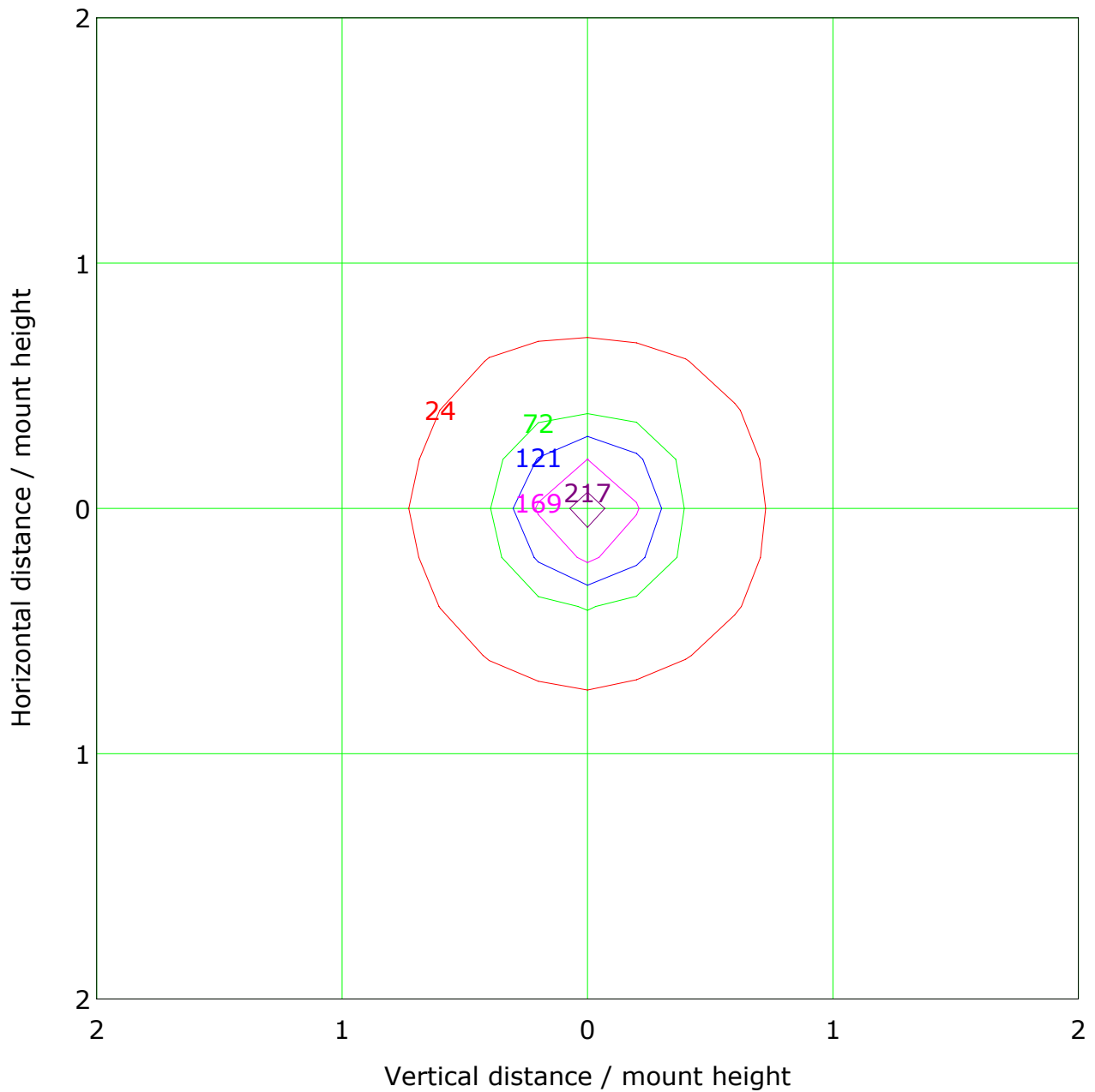
Spacing Criteria (Diagonal): 0.61



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

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

## IsoLux Plot



Mounting Height: 3m    Max Lux(100%): 242 lx

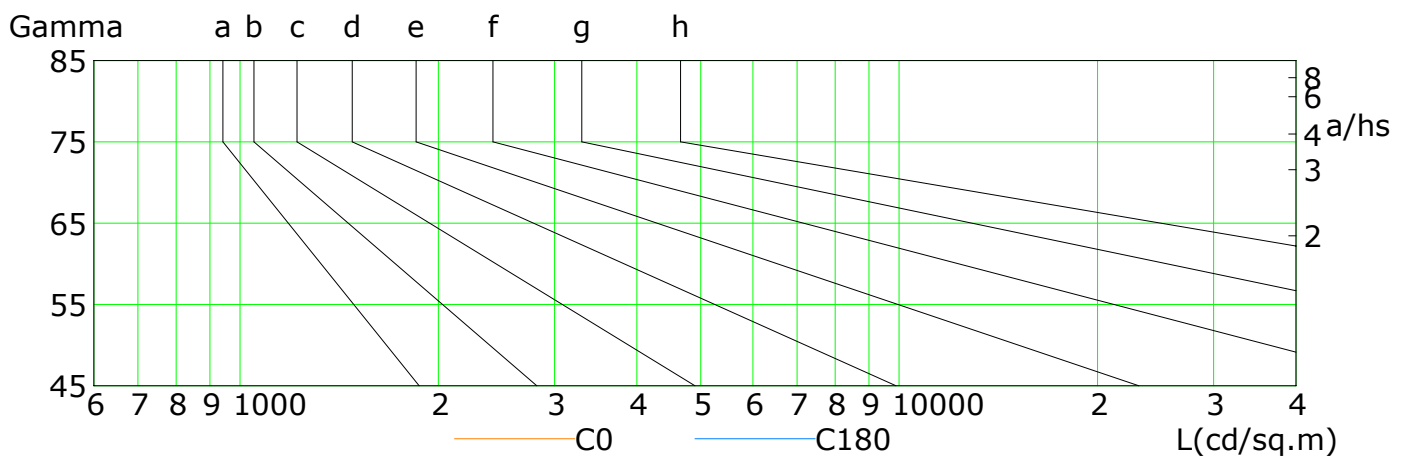
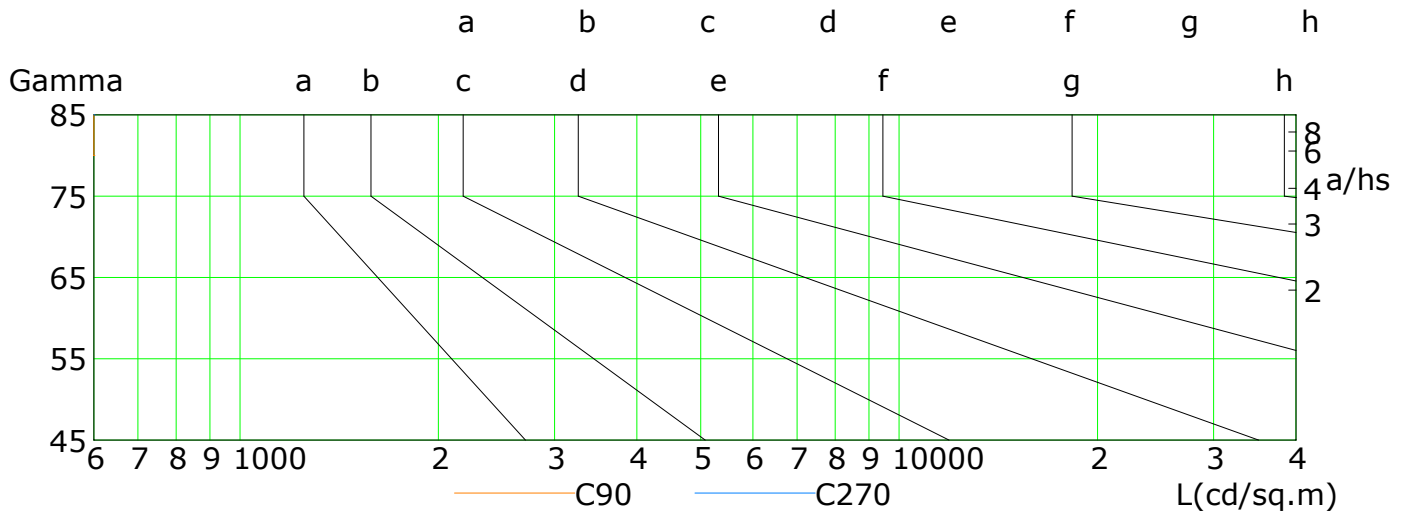
( 10%):	24 lx	( 30%):	72 lx
( 50%):	121 lx	( 70%):	169 lx
( 90%):	217 lx		

Test Lab: ASTRO  
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Temperature: 25  
Operator:

Test Device: GPM-1800  
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Inspector:

## 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	50	21	13	8	4	3	1	1	1
C90	35	20	12	7	4	2	0	0	0
C180	28	18	11	7	4	3	1	1	1
C270	36	20	12	7	4	2	1	0	0

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## Illuminance at a Distance

