

astro

PHOTOMETRIC  
TEST REPORT

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## Flux test report

### Product Remark

Type:5749

Temperature:Tx=34.7°C Ti=35.5°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 20:13

### CIE Color Parameter

Chromaticity Coordinate: x=0.4298 y=0.4024

u=0.2467 v=0.3464

CCT: Tc= 3111K

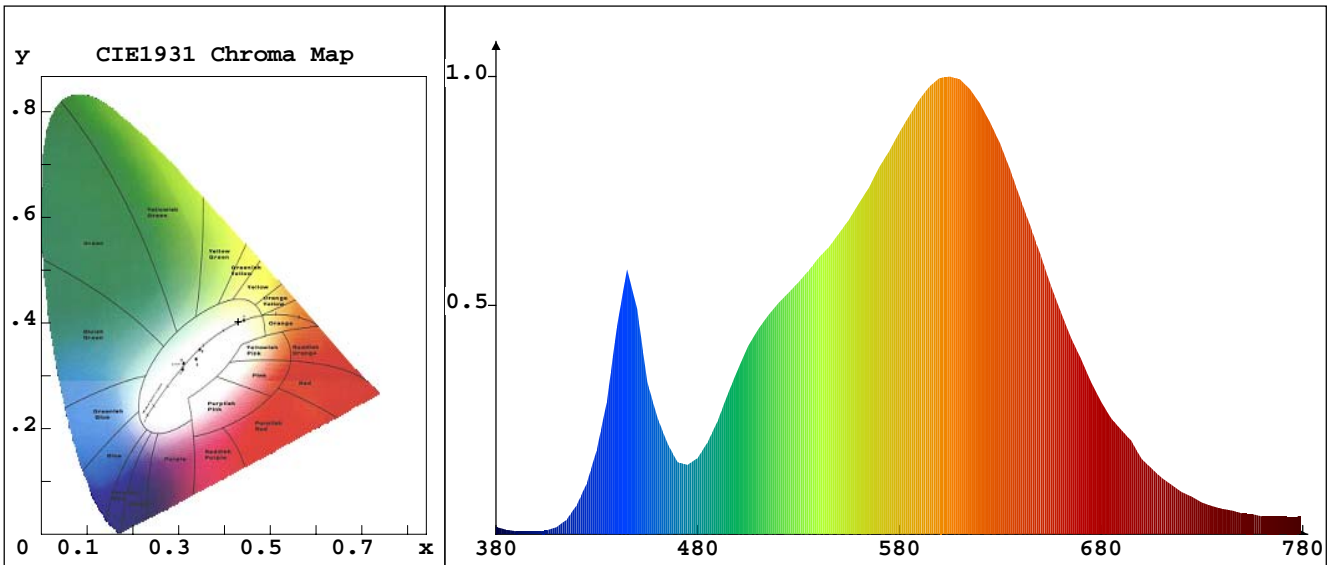
Ratio: R=0.240 G=0.738 B=0.021 Peak Wave: 605nm Half Width: 139.7nm

Dominant WL.: 583.2nm Purity: 0.498

Rending Index: Ra= 83.4

R1 =82 R2 =89 R3 =96 R4 =83 R5 =82 R6 =87 R7 =85 R8 =63

R9 =13 R10=76 R11=83 R12=73 R13=83 R14=98 R15=75



### Photo Parameter

Luminous Flux: 1206.1 lm

Light Efficiency: 97.3 lm/W

Radiant Power: 3.721 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

Interval: 5nm

PMT HV: -522V

Main: 4

Id: 16

Ip: 25992

Reference: 2

REF: 6350

#: -0.455%

## Flux test report

### Product Remark

Type:5763

Temperature:Tx=34.7°C Ti=35.4°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 20:03

### CIE Color Parameter

Chromaticity Coordinate: x=0.4288 y=0.4010

u=0.2466 v=0.3460

CCT: Tc= 3117K

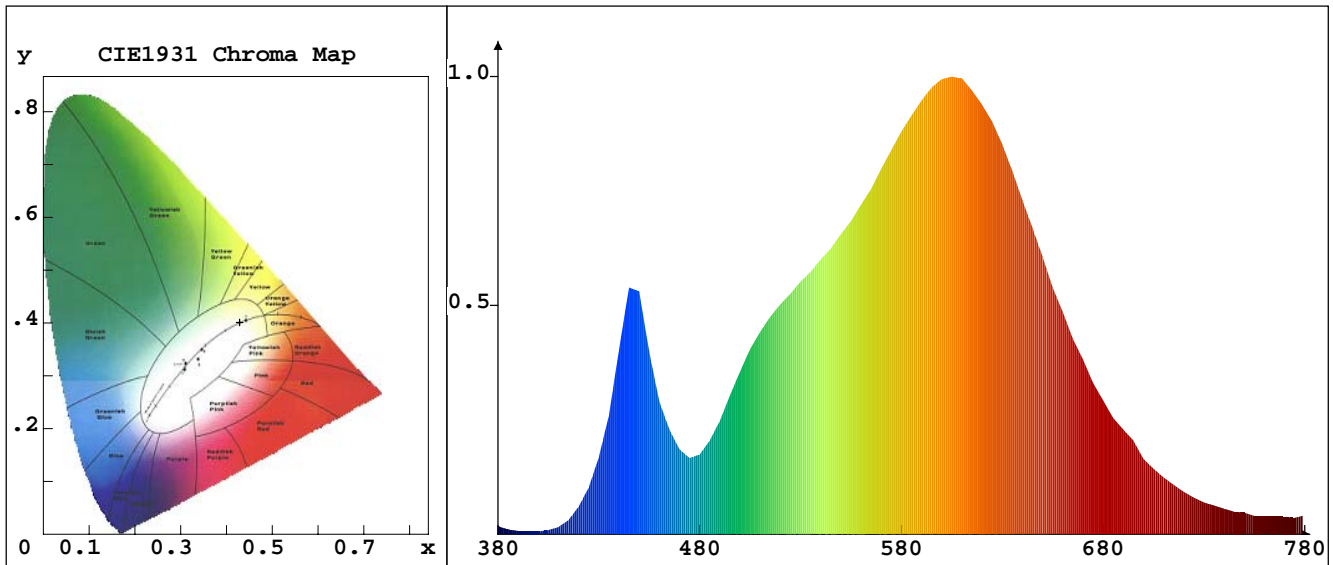
Ratio: R=0.240 G=0.737 B=0.022 Peak Wave: 605nm Half Width: 139.1nm

Dominant WL.: 583.3nm Purity: 0.491

Rending Index: Ra= 83.6

R1 =82 R2 =90 R3 =96 R4 =83 R5 =82 R6 =87 R7 =84 R8 =63

R9 =13 R10=77 R11=83 R12=73 R13=84 R14=98 R15=75



### Photo Parameter

Luminous Flux: 1230.2 lm

Light Efficiency: 99.2 lm/W

Radiant Power: 3.803 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

Interval: 5nm

PMT HV: -522V

Main: 4

Id: 15

Ip: 26107

Reference: 2

REF: 6472

#: -0.599%

Report No.:

Test Time: 2017-05-18 13:49

## Luminaire Property

Luminaire Category: LED RECESSED LIGHT  
 Luminaire Manufacturer: ASTRO  
 Lamp Description: CXA1507-3000K  
 Lumens per Lamp: 815  
 Luminous Width (mm): -58  
 Voltage: 19.1 V  
 Power: 13.20 W

Luminaire Description: 5749  
 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

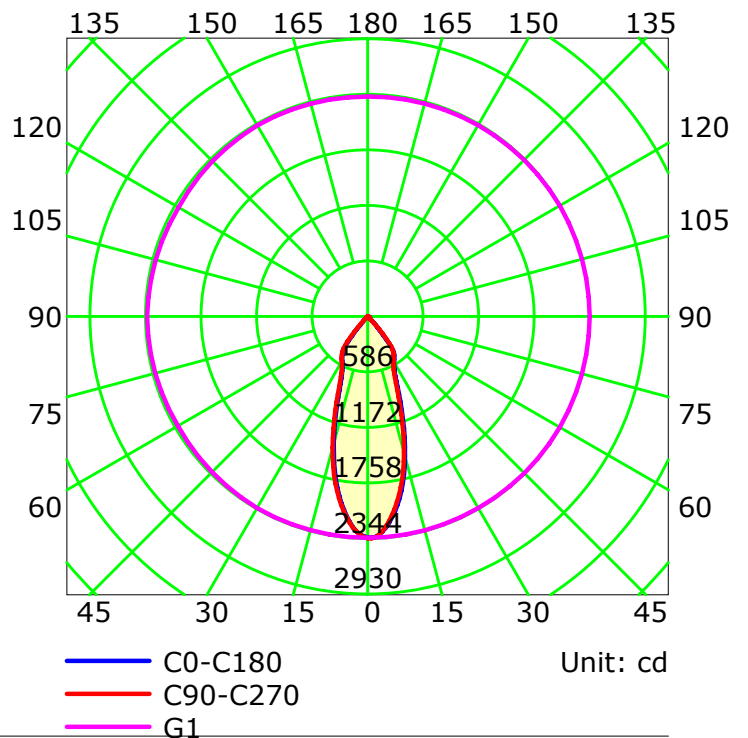
CIE Class: Direct  
 Measurement Flux: 1281.1 lm  
 Downward Ratio: 78.59%  
 Luminaire Efficacy Rating (LER): 97  
 Max. Intensity: 2342.64 cd

Total Rated Lamp Lumens: 1630.0 lm  
 Efficiency: 78.59%  
 Upward Ratio: 0.00%  
 Central Intensity: 2332.8 cd  
 Pos of Max. Intensity: H90 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



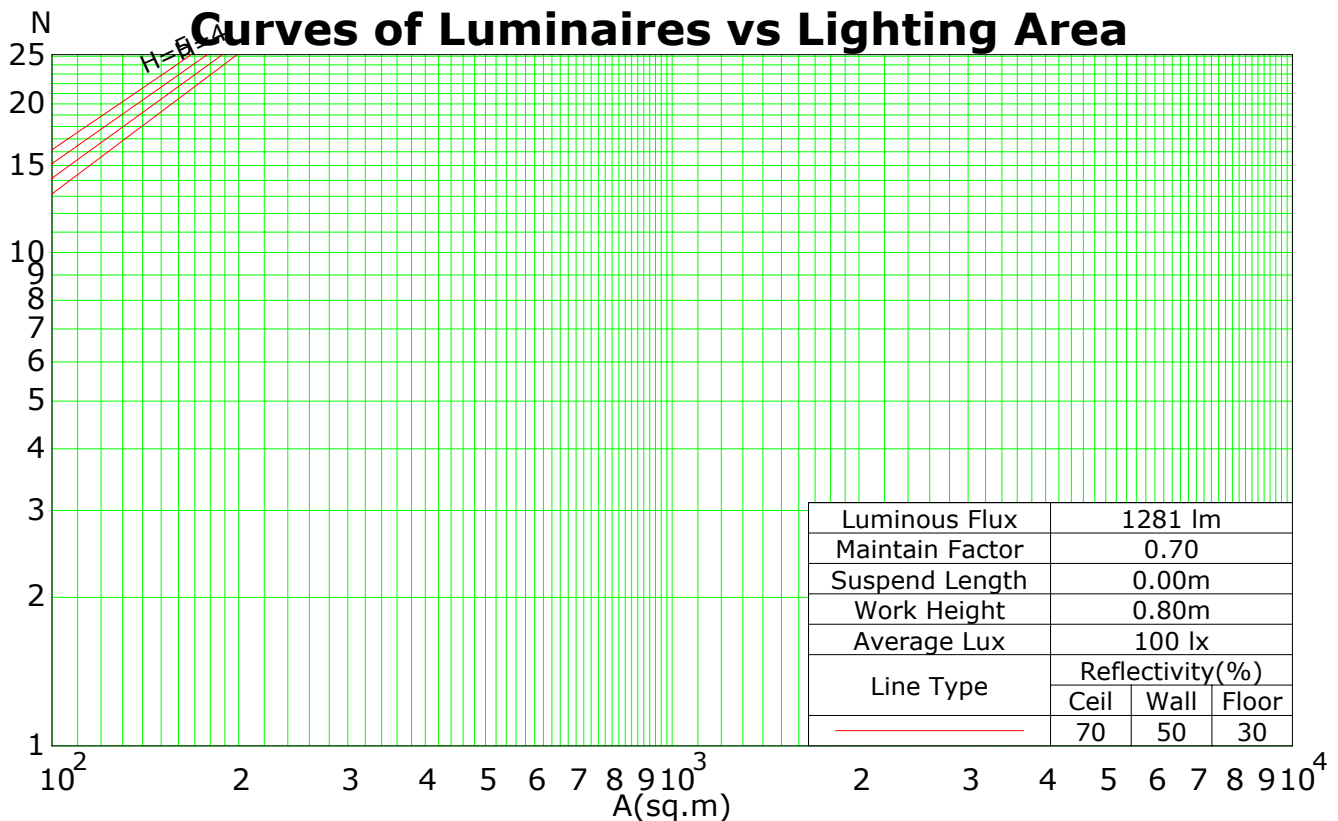
Test Lab: ASTRO  
 Test Type: TYPE C  
 Temperature: 25  
 Operator:

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	91	91	91	91	87	87	87	84	84	84	80	80	80	79
1	89	87	85	84	87	86	84	82	82	81	80	80	78	78	77	76	75	74
2	85	82	79	76	83	80	77	75	78	75	73	75	74	72	73	72	70	69
3	81	76	73	70	80	75	72	69	73	70	68	71	69	67	70	68	66	65
4	77	72	68	64	76	71	67	64	69	66	63	68	65	62	66	64	62	61
5	74	67	63	60	72	67	63	60	65	62	59	64	61	59	63	60	58	57
6	70	64	59	56	69	63	59	56	62	58	55	61	57	55	60	57	55	54
7	67	60	56	52	66	60	55	52	59	55	52	58	54	52	57	54	52	50
8	64	57	52	49	63	57	52	49	56	52	49	55	51	49	54	51	49	48
9	61	54	50	47	60	54	49	47	53	49	46	52	49	46	52	48	46	45
10	59	51	47	44	58	51	47	44	50	47	44	50	46	44	49	46	44	43

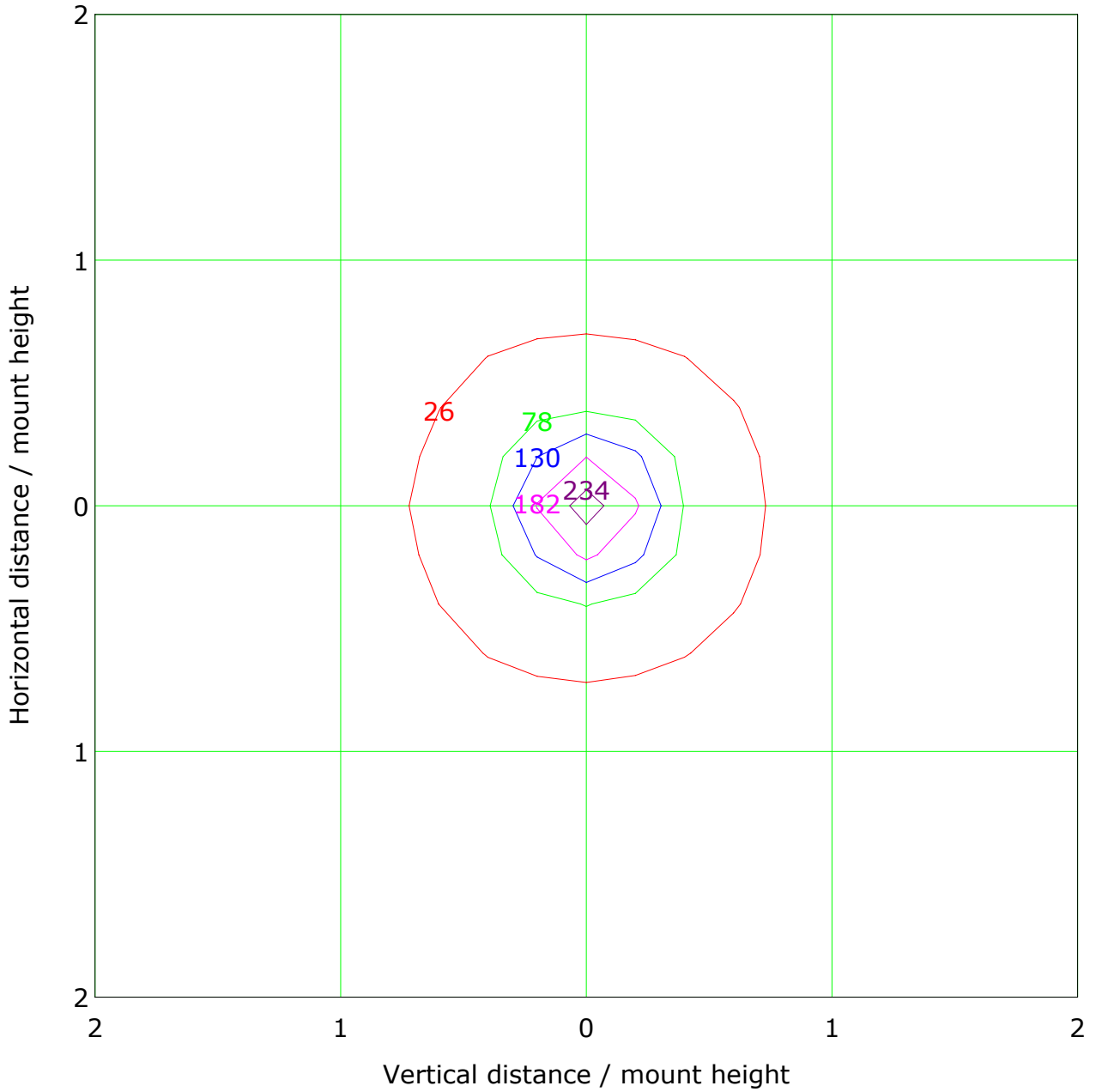
Spacing Criteria (0-180): 0.59  
 Spacing Criteria (90-270): 0.59  
 Spacing Criteria (Diagonal): 0.61



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# IsoLux Plot



Mounting Height: 3m    Max Lux(100%): 260 lx

— ( 10%): 26 lx	— ( 30%): 78 lx
— ( 50%): 130 lx	— ( 70%): 182 lx
— ( 90%): 234 lx	

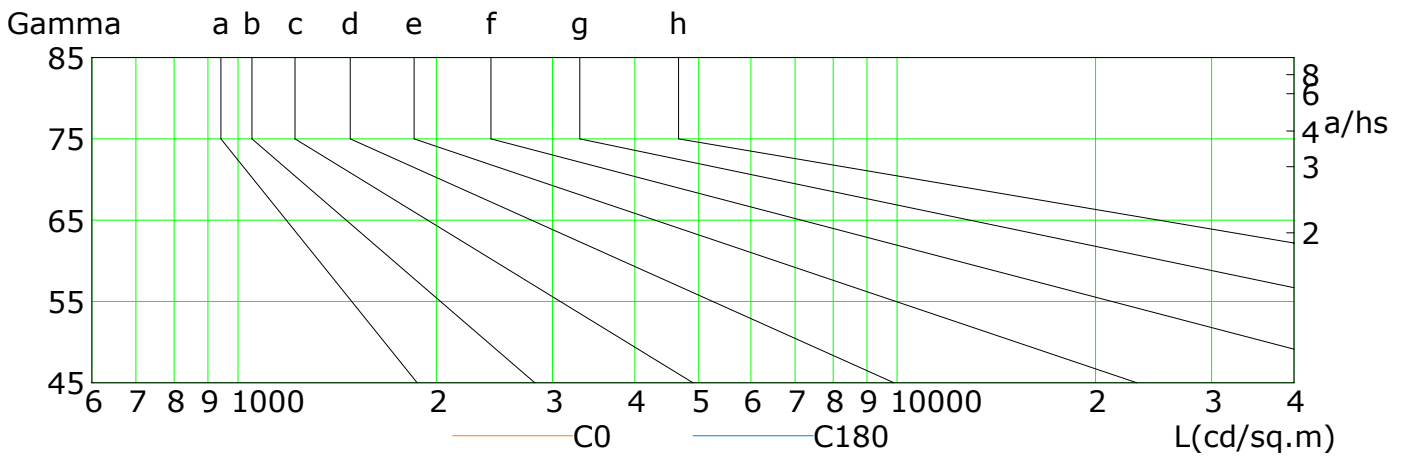
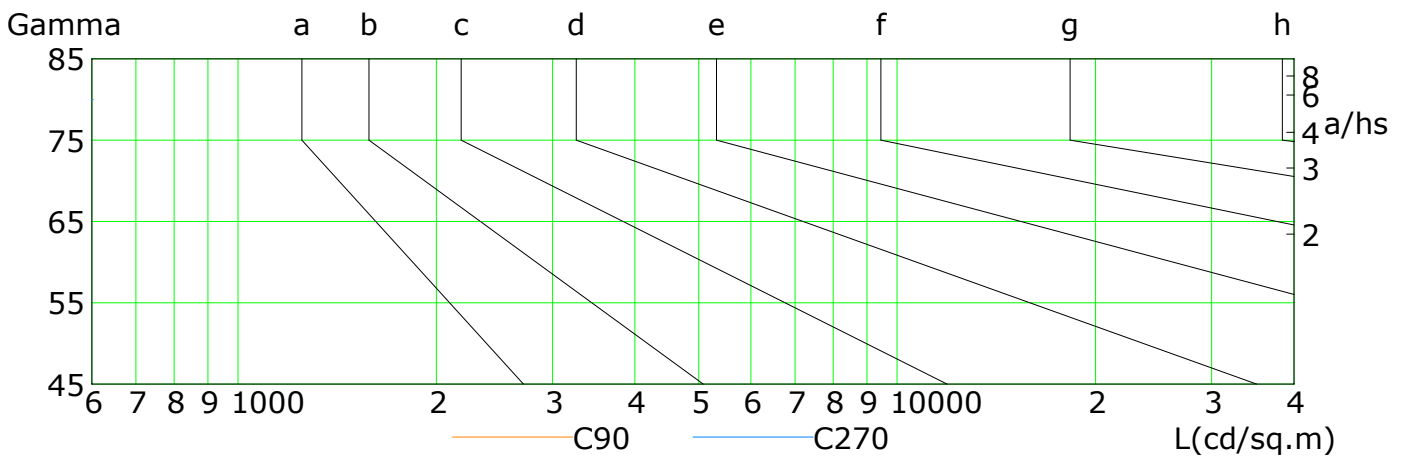
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## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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	66	23	14	9	5	4	2	1	1
C90	50	22	14	8	4	3	1	0	0
C180	31	20	12	7	4	3	1	1	1
C270	40	22	13	8	4	3	0	0	0

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## Illuminance at a Distance

