

astro

PHOTOMETRIC
TEST REPORT

Flux test report

Product Remark

Type:5746

Temperature:Tx=34.7°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 11:13

CIE Color Parameter

Chromaticity Coordinate: x=0.4303 y=0.4029

u=0.2468 v=0.3466

CCT: Tc= 3105K

Ratio: R=0.241 G=0.734 B=0.025 Peak Wave: 605nm Half Width: 135.6nm

Dominant WL.: 583.2nm Purity: 0.501

Rending Index: Ra= 83.4

R1 =82	R2 =91	R3 =97	R4 =81	R5 =82	R6 =89	R7 =83	R8 =62
R9 =12	R10=80	R11=79	R12=69	R13=84	R14=99	R15=75	

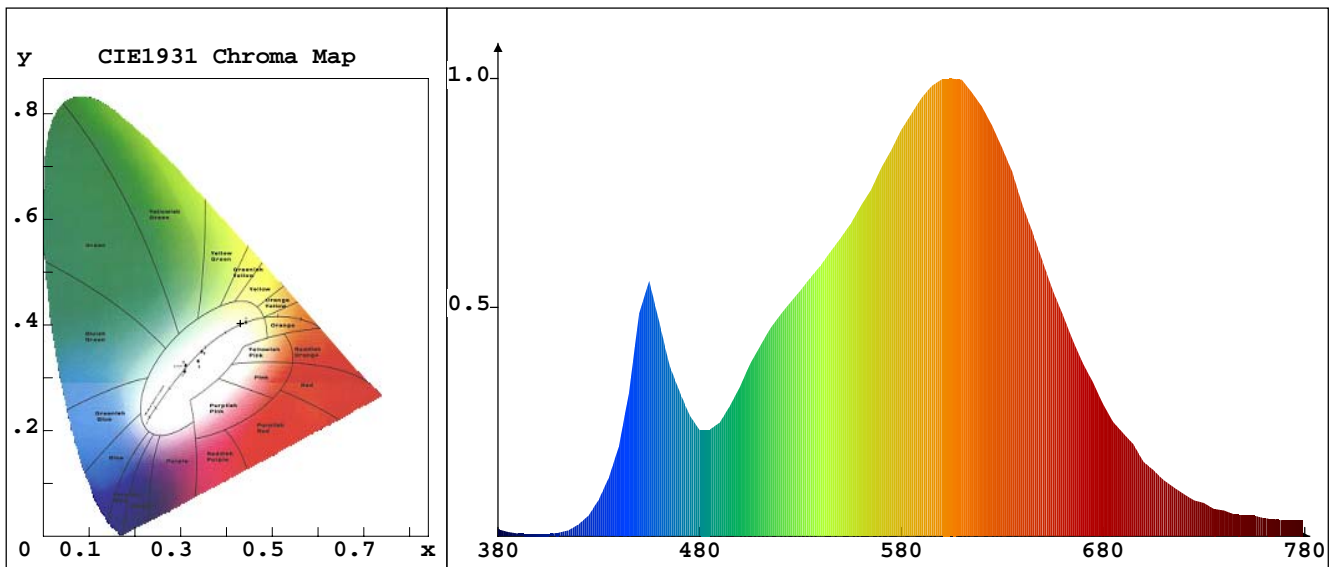


Photo Parameter

Luminous Flux: 642.1 lm

Light Efficiency: 105.3 lm/W

Radiant Power: 1.974 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: 22

REF: 3383

PMT HV: -571V

Ip: 25609

%; -0.353%

Flux test report

Product Remark

Type:5754

Temperature:Tx=34.7°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 10:52

CIE Color Parameter

Chromaticity Coordinate: x=0.4309 y=0.4039

u=0.2467 v=0.3469

CCT: Tc= 3103K

Ratio: R=0.240 G=0.739 B=0.021 Peak Wave: 610nm Half Width: 138.5nm

Dominant WL.: 583.1nm Purity: 0.506

Rending Index: Ra= 82.9

R1 =81	R2 =89	R3 =96	R4 =82	R5 =81	R6 =86	R7 =84	R8 =62
R9 =11	R10=75	R11=82	R12=69	R13=83	R14=98	R15=74	

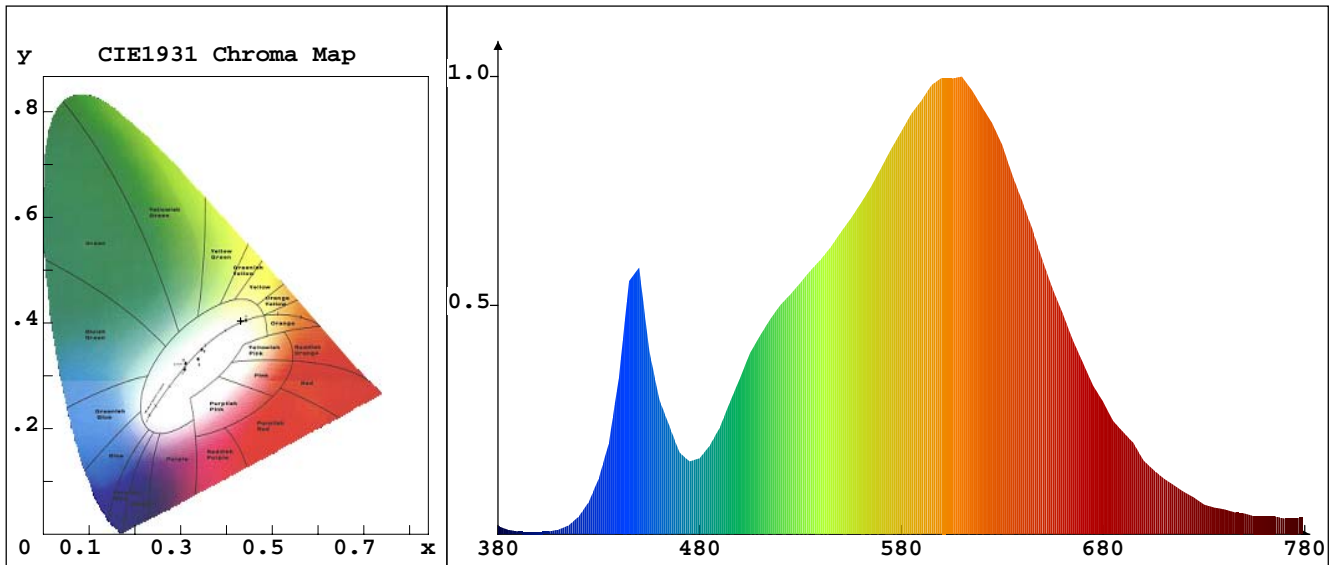


Photo Parameter

Luminous Flux: 680.1 lm

Light Efficiency: 111.5 lm/W

Radiant Power: 2.080 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: 21

REF: 3585

PMT HV: -564V

Ip: 25625

#: -0.334%

Report No.:

Test Time: 2017-05-18 10:34

Luminaire Property

Luminaire Category: LED RECESSED LIGHT
 Luminaire Manufacturer: ASTRO
 Lamp Description: CXA1512-3000K
 Lumens per Lamp: 833
 Luminous Width (mm): -54
 Voltage: 17.9 V
 Power: 6.10 W

Luminaire Description: 5746
 Lamp Catalog: LED
 Number of Lamps: 1
 Luminous Length (mm): -54
 Luminous Height (mm): 35
 Current: 0.340 A
 Power Factor: 1.000

Photometric Results

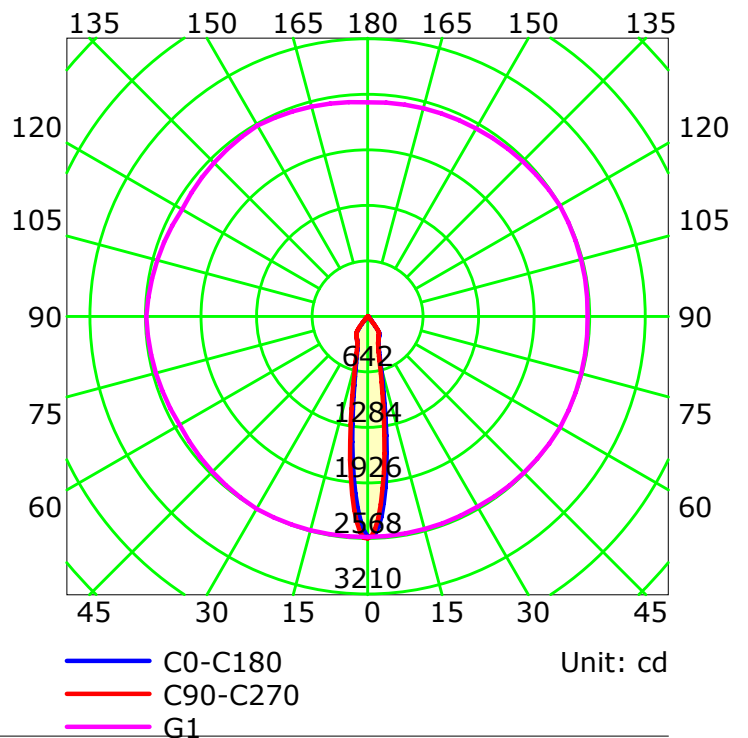
CIE Class: Direct
 Measurement Flux: 617.5 lm
 Downward Ratio: 74.12%
 Luminaire Efficacy Rating (LER): 101
 Max. Intensity: 2568.8 cd

Total Rated Lamp Lumens: 833.0 lm
 Efficiency: 74.12%
 Upward Ratio: 0.00%
 Central Intensity: 2541.89 cd
 Pos of Max. Intensity: H330 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



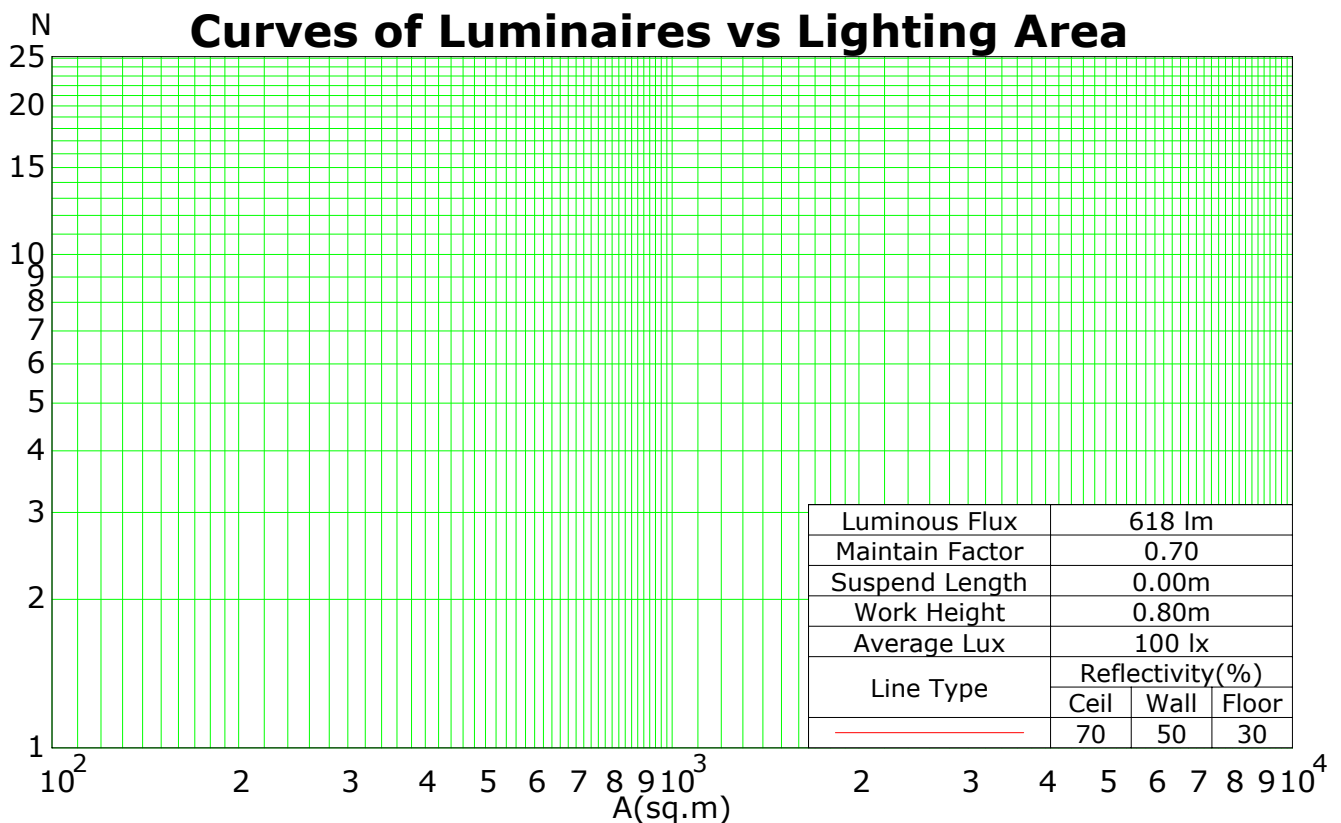
Test Lab: ASTRO
 Test Type: TYPE C
 Temperature: 25
 Operator:

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

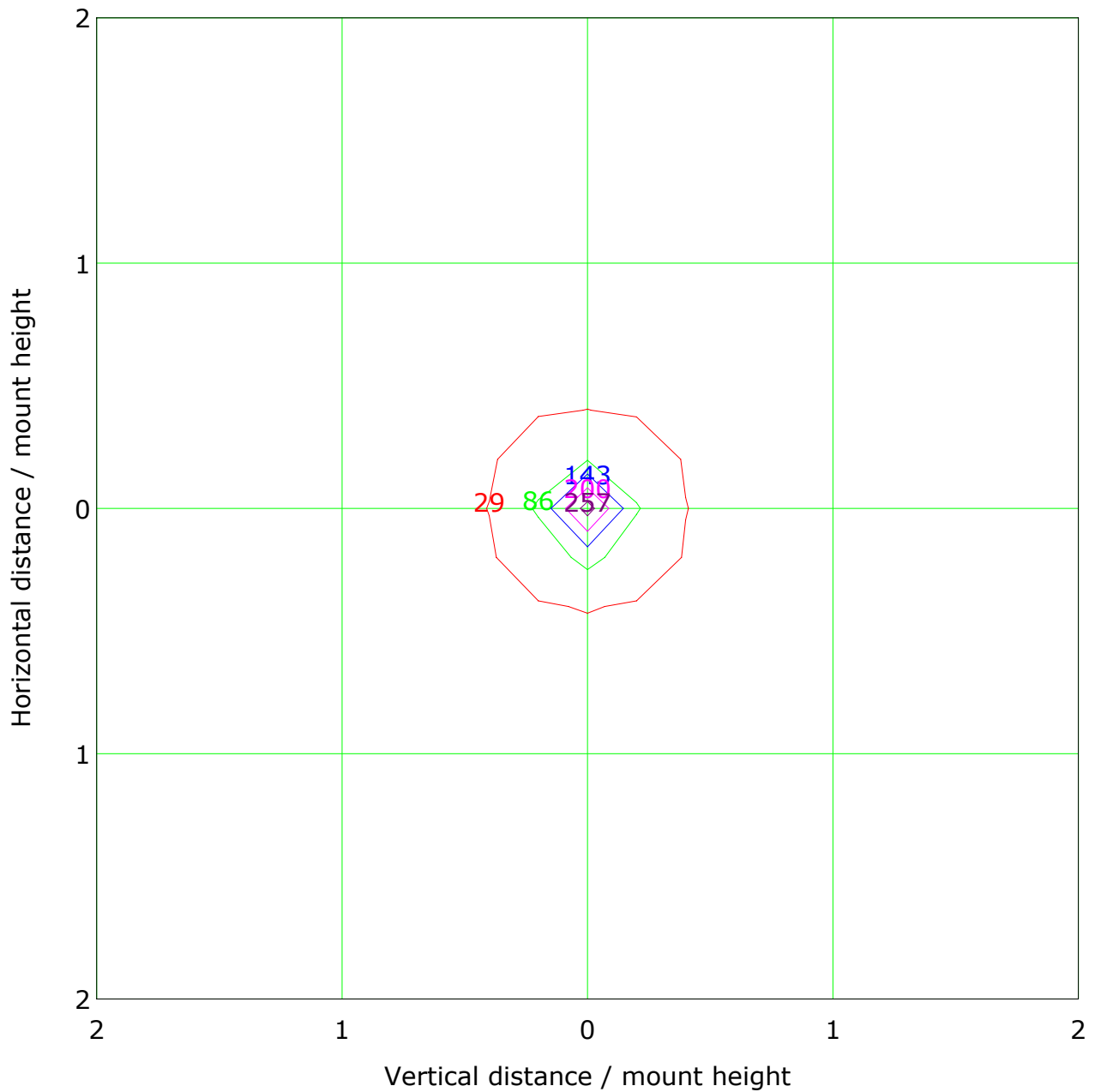
Spacing Criteria (0-180): 0.30
 Spacing Criteria (90-270): 0.30
 Spacing Criteria (Diagonal): 0.33



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 Operator:

Test Device: GPM-1800
 Distance: 10.098 m
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IsoLux Plot



Mounting Height: 3m Max Lux(100%): 285 lx

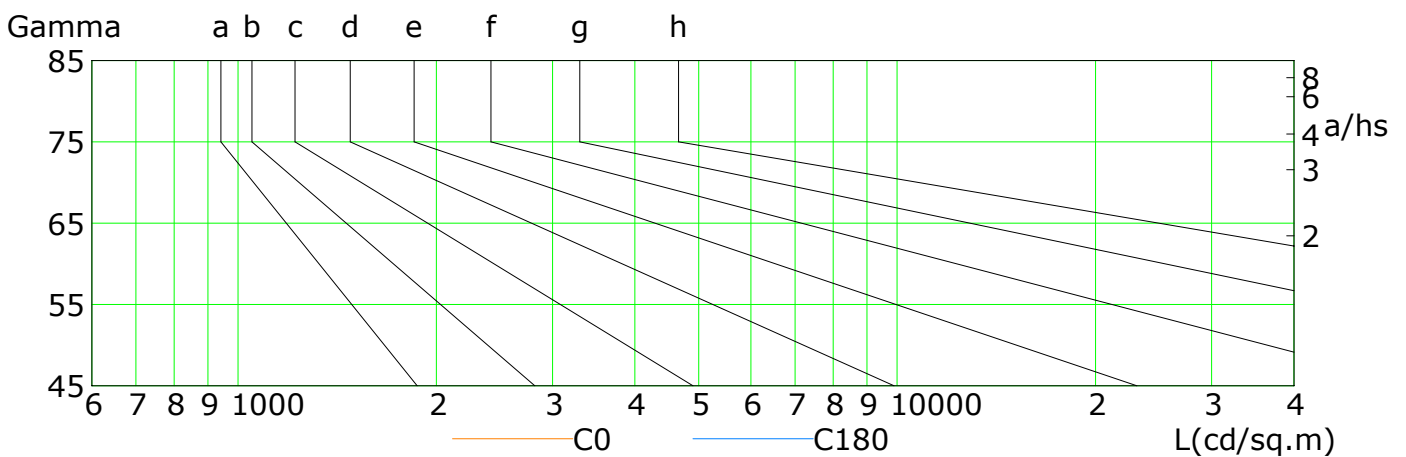
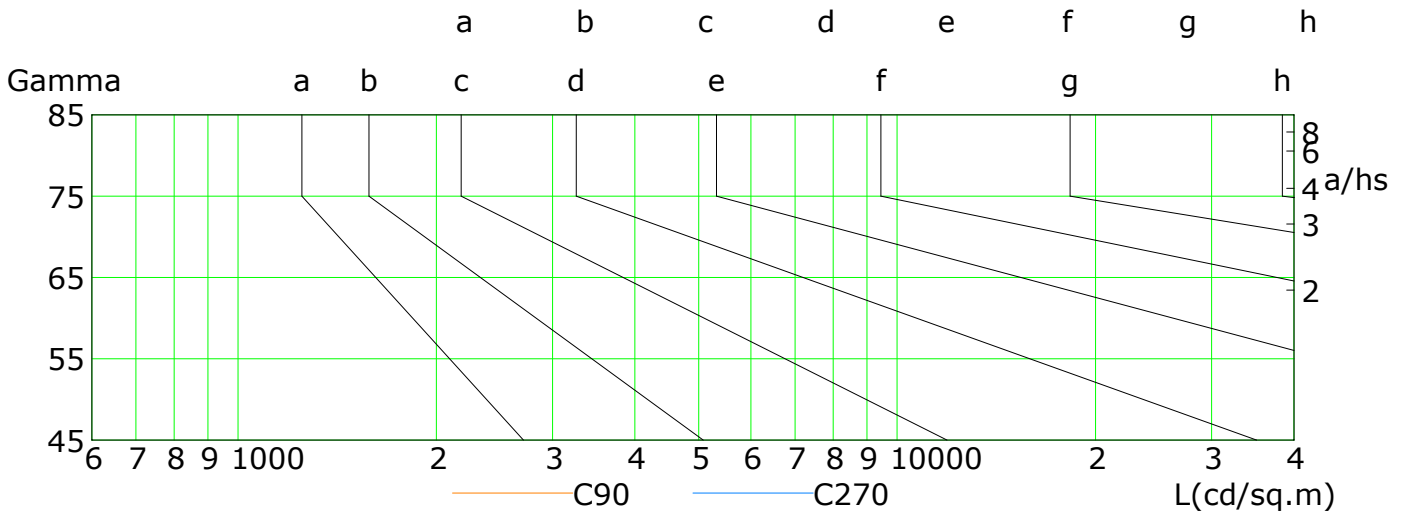
(10%): 29 lx	(30%): 86 lx
(50%): 143 lx	(70%): 200 lx
(90%): 257 lx	

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Temperature: 25
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Test Device: GPM-1800
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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	24	11	6	5	4	3	2	1	1
C90	22	9	5	4	3	2	1	1	0
C180	20	9	6	4	3	3	2	1	1
C270	23	10	6	4	3	2	1	1	0

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Illuminance at a Distance

