

astro

PHOTOMETRIC
TEST REPORT

Flux test report

Product Remark

Type:5725

Temperature:Tx=34.7°C Ti=35.2°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 14:33

CIE Color Parameter

Chromaticity Coordinate: x=0.4562 y=0.4118

u=0.2596 v=0.3515

CCT: Tc= 2761K

Ratio: R=0.264 G=0.717 B=0.019 Peak Wave: 605nm Half Width: 120.5nm

Dominant WL.: 584.7nm Purity: 0.605

Rending Index: Ra= 82.3

R1 =81	R2 =91	R3 =97	R4 =80	R5 =81	R6 =89	R7 =82	R8 =58
R9 =7	R10=79	R11=79	R12=73	R13=83	R14=99	R15=73	

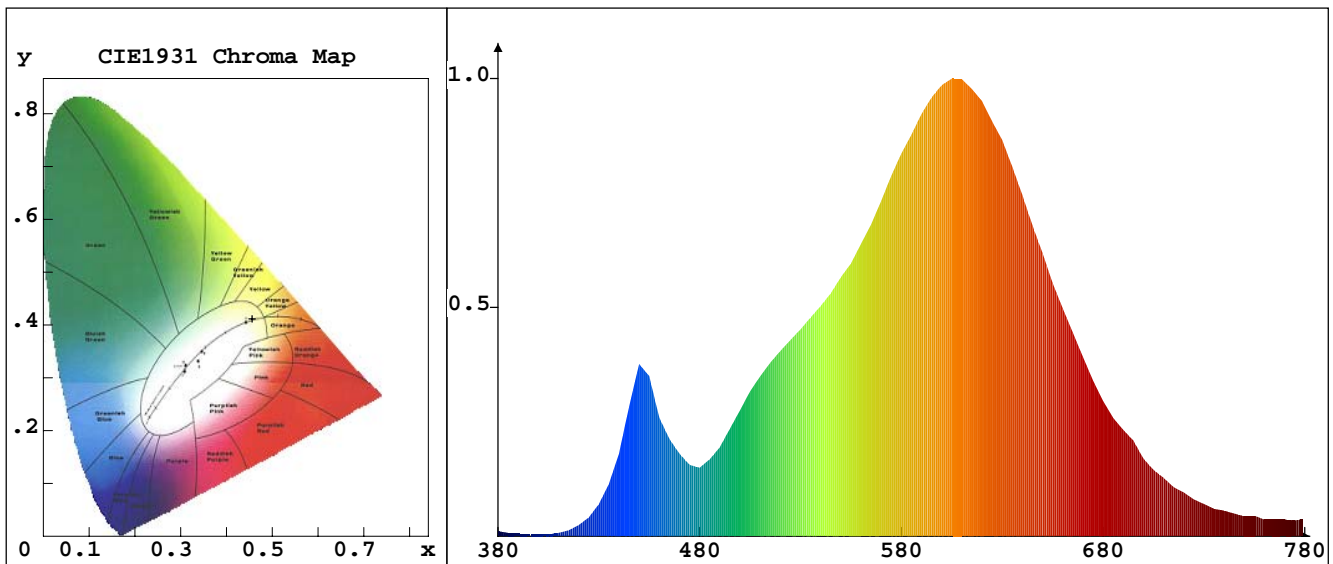


Photo Parameter

Luminous Flux: 566.0 lm

Light Efficiency: 89.8 lm/W

Radiant Power: 1.750 W

Electrical Parameter

Voltage:U= 18.0V Current:I=0.350A Power:P= 6.3W Power Factor: Pf=1.000

Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 20

REF: 2944

PMT HV: -580V

Ip: 23290

#: -2.964%

Flux test report

Product Remark

Type:5759

Temperature:Tx=34.7°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 10:36

CIE Color Parameter

Chromaticity Coordinate: x=0.4556 y=0.4144

u=0.2581 v=0.3521

CCT: Tc= 2790K

Ratio: R=0.261 G=0.719 B=0.019 Peak Wave: 610nm Half Width: 122.8nm

Dominant WL.: 584.2nm Purity: 0.612

Rending Index: Ra= 82.5

R1 =81	R2 =90	R3 =97	R4 =81	R5 =81	R6 =89	R7 =83	R8 =59
R9 =8	R10=78	R11=80	R12=72	R13=83	R14=99	R15=73	

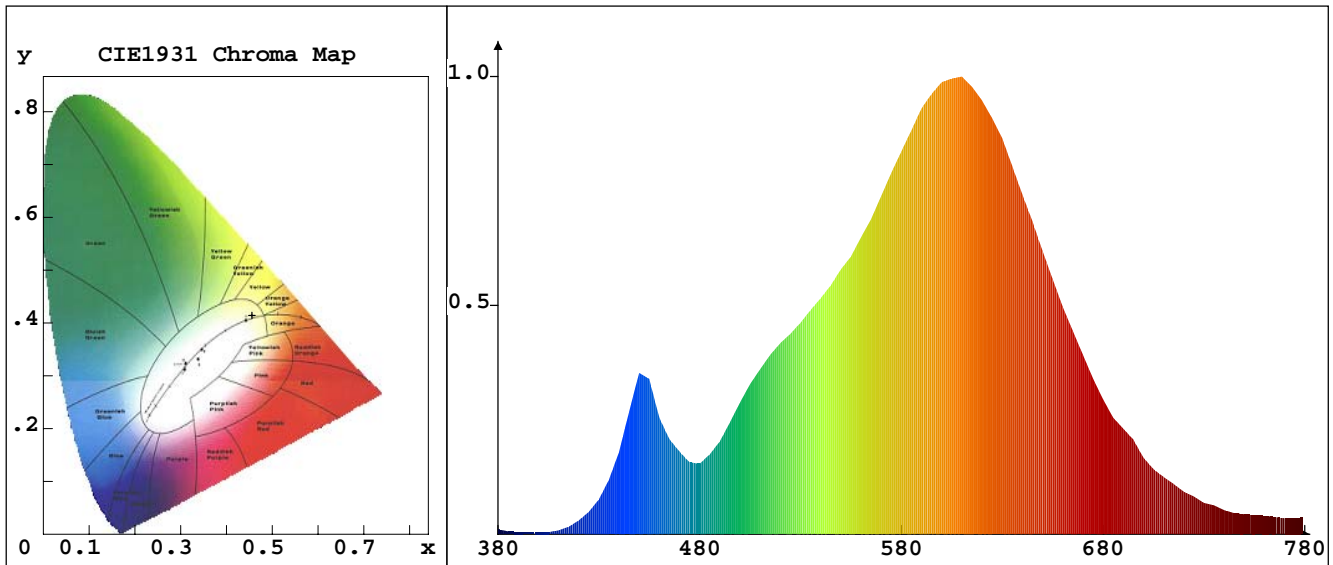


Photo Parameter

Luminous Flux: 644.9 lm

Light Efficiency: 102.4 lm/W

Radiant Power: 1.983 W

Electrical Parameter

Voltage:U= 18.0V Current:I=0.350A Power:P= 6.3W Power Factor: Pf=1.000

Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 22

REF: 3393

PMT HV: -567V

Ip: 25966

%; -0.499%

Flux test report

Product Remark

Type:5760

Temperature:Tx=34.5°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 10:19

CIE Color Parameter

Chromaticity Coordinate: x=0.4550 y=0.4097

u=0.2597 v=0.3509

CCT: Tc= 2763K

Ratio: R=0.265 G=0.715 B=0.020 Peak Wave: 610nm Half Width: 119.8nm

Dominant WL.: 584.9nm Purity: 0.595

Rending Index: Ra= 82.8

R1 =81	R2 =91	R3 =97	R4 =81	R5 =81	R6 =90	R7 =82	R8 =59
R9 =10	R10=80	R11=80	R12=74	R13=84	R14=99	R15=74	

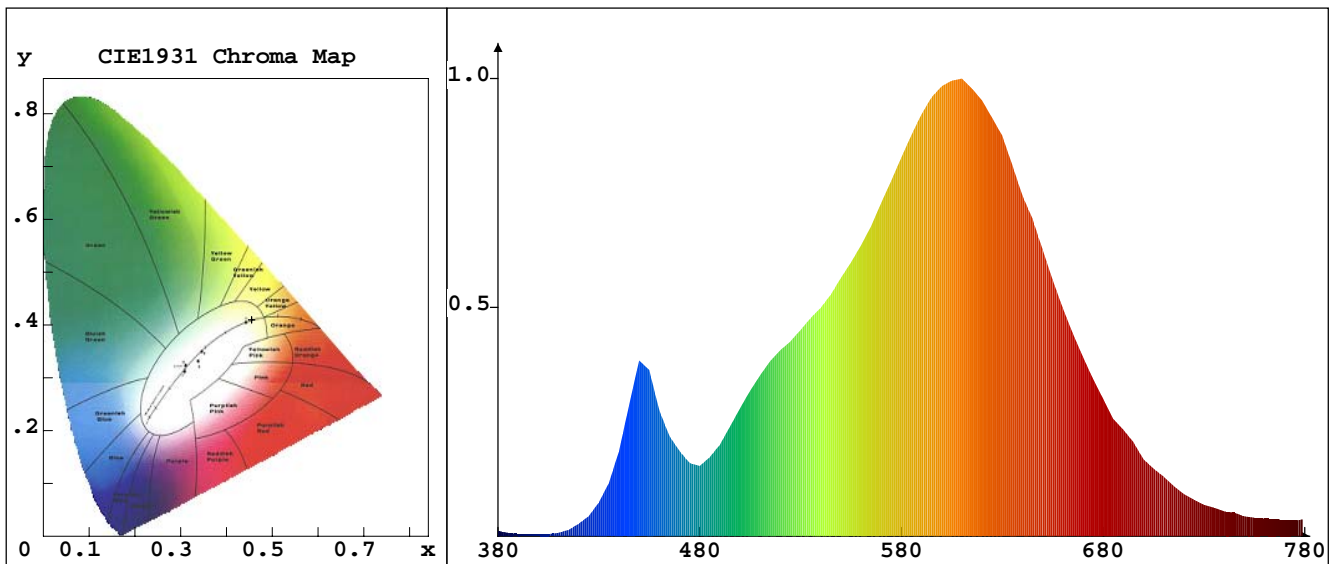


Photo Parameter

Luminous Flux: 613.9 lm

Light Efficiency: 97.4 lm/W

Radiant Power: 1.908 W

Electrical Parameter

Voltage:U= 18.0V Current:I=0.350A Power:P= 6.3W Power Factor: Pf=1.000

Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 22

REF: 3231

PMT HV: -573V

Ip: 25816

#: -0.462%

Report No.:

Test Time: 2017-05-18 14:37

Luminaire Property

Luminaire Category: LED RECESSED LIGHT
 Luminaire Manufacturer: ASTRO
 Lamp Description: CXA1507-2700K
 Lumens per Lamp: 767
 Luminous Width (mm): -58
 Voltage: 18.2 V
 Power: 6.20 W

Luminaire Description: 5759
 Lamp Catalog: LED
 Number of Lamps: 1
 Luminous Length (mm): -58
 Luminous Height (mm): 33
 Current: 0.340 A
 Power Factor: 1.000

Photometric Results

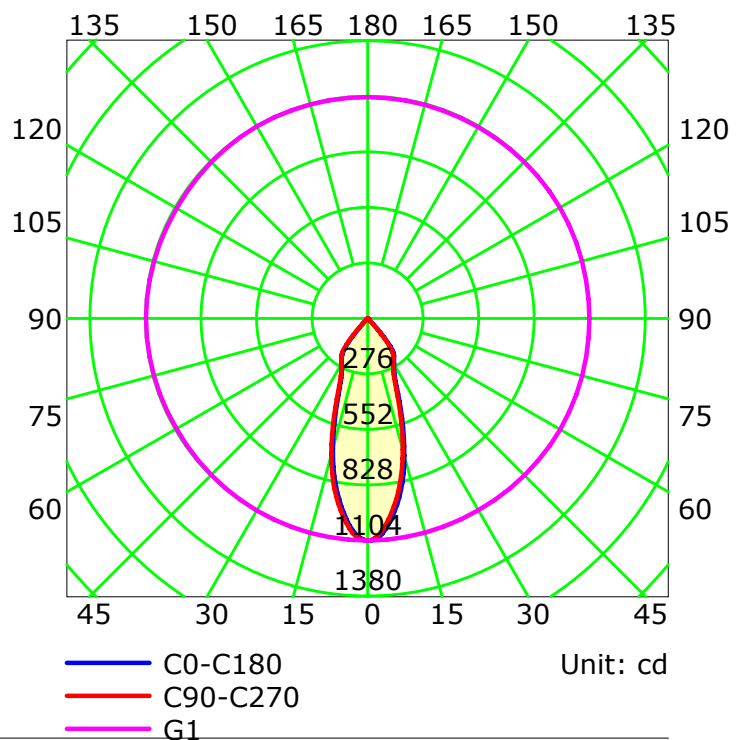
CIE Class: Direct
 Measurement Flux: 604.8 lm
 Downward Ratio: 78.85%
 Luminaire Efficacy Rating (LER): 98
 Max. Intensity: 1105.23 cd

Total Rated Lamp Lumens: 767.0 lm
 Efficiency: 78.85%
 Upward Ratio: 0.00%
 Central Intensity: 1104.56 cd
 Pos of Max. Intensity: H60 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:

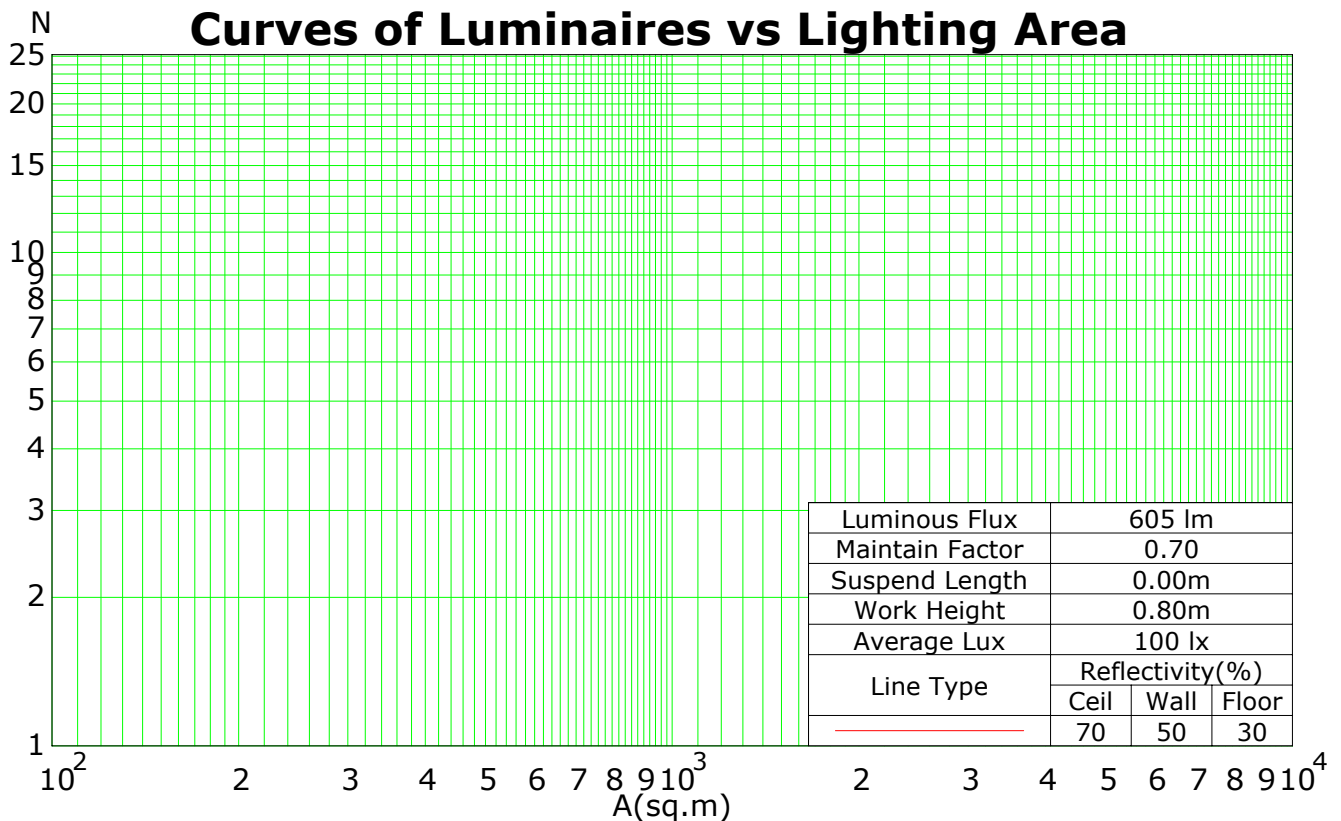
Coefficients Of Utilization - Zonal Cavity Method

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

Spacing Criteria (0-180): 0.59

Spacing Criteria (90-270): 0.59

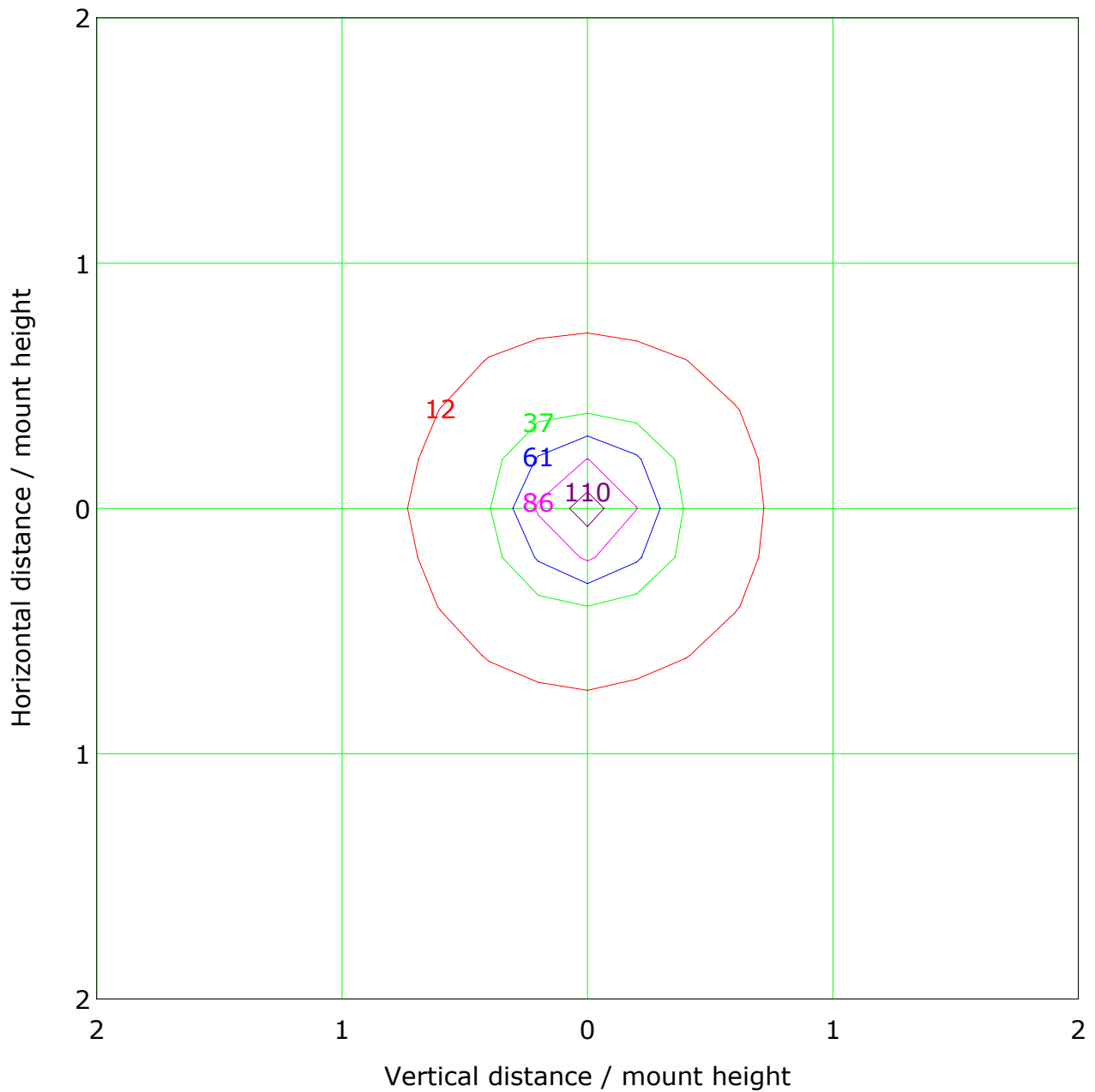
Spacing Criteria (Diagonal): 0.60



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%): 123 lx

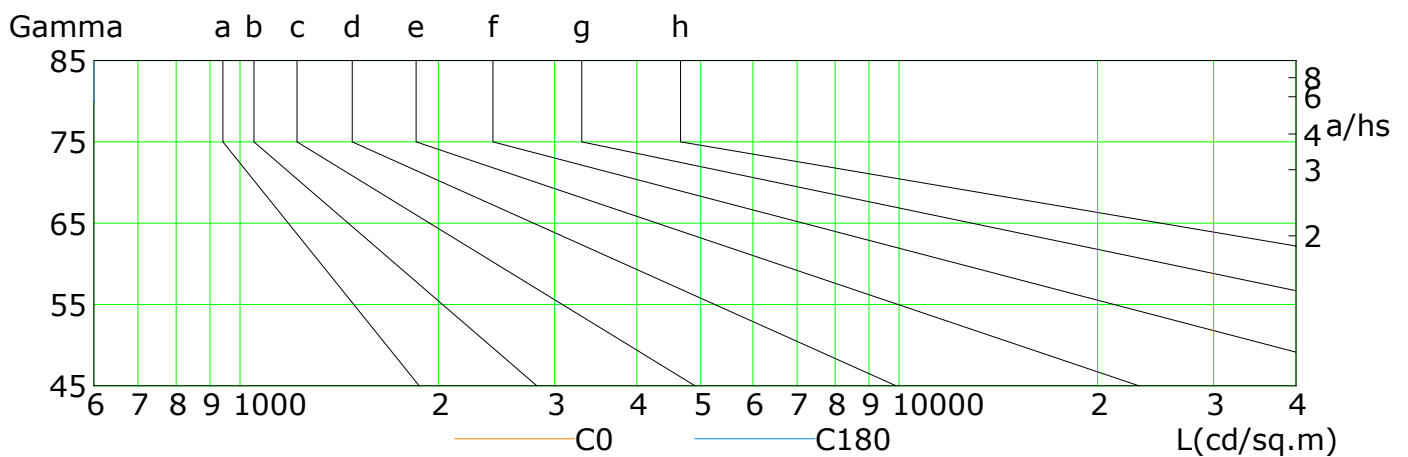
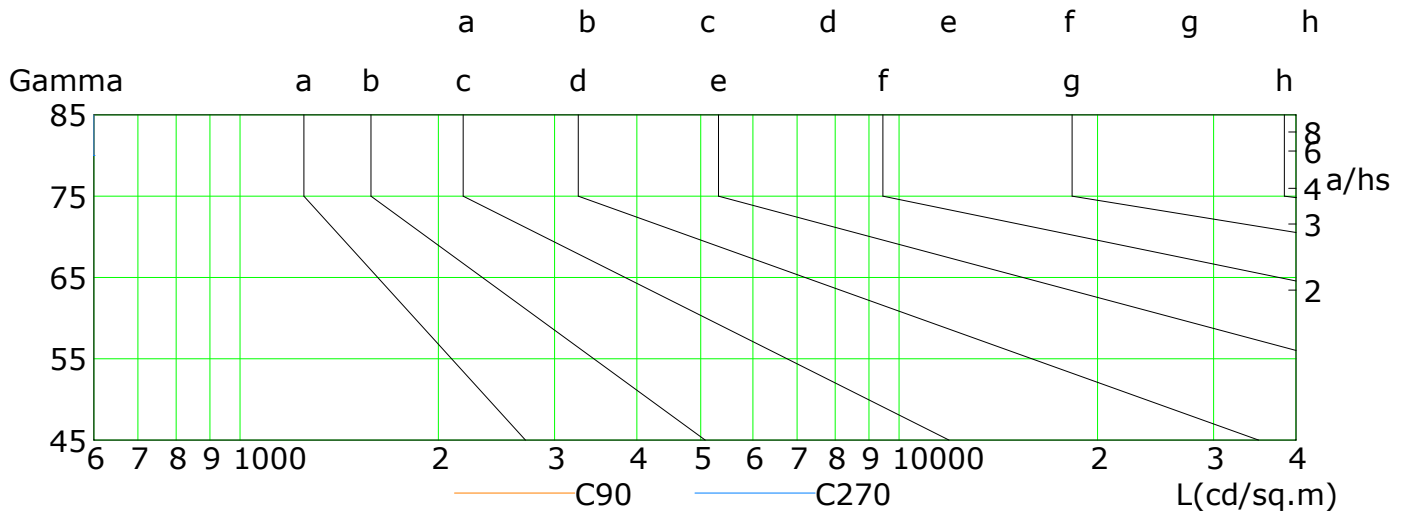
(10%):	12 lx	(30%):	37 lx
(50%):	61 lx	(70%):	86 lx
(90%):	110 lx		

Test Lab: ASTRO
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Temperature: 25
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Test Device: GPM-1800
Distance: 10.098 m
Humidity: 52
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	26	10	6	4	2	2	0	0	0
C90	17	10	6	3	2	1	0	0	0
C180	15	9	6	3	2	1	0	0	0
C270	21	10	6	4	2	1	0	0	0

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 Distance: 10.098 m
 Humidity: 52
 Inspector:

Illuminance at a Distance

