

astro

PHOTOMETRIC
TEST REPORT

Flux test report

Product Remark

Type:1254017

Temperature:Tx=34.7°C Ti=35.2°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 14:02

CIE Color Parameter

Chromaticity Coordinate: x=0.4322 y=0.4062

u=0.2466 v=0.3477

CCT: Tc= 3098K

Ratio: R=0.240 G=0.735 B=0.025 Peak Wave: 605nm Half Width: 136.2nm

Dominant WL.: 582.9nm Purity: 0.517

Rending Index: Ra= 83.3

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =91 | R3 =97 | R4 =81 | R5 =81 | R6 =89 | R7 =84 | R8 =62 |
| R9 =12 | R10=79 | R11=79 | R12=68 | R13=84 | R14=99 | R15=75 | |

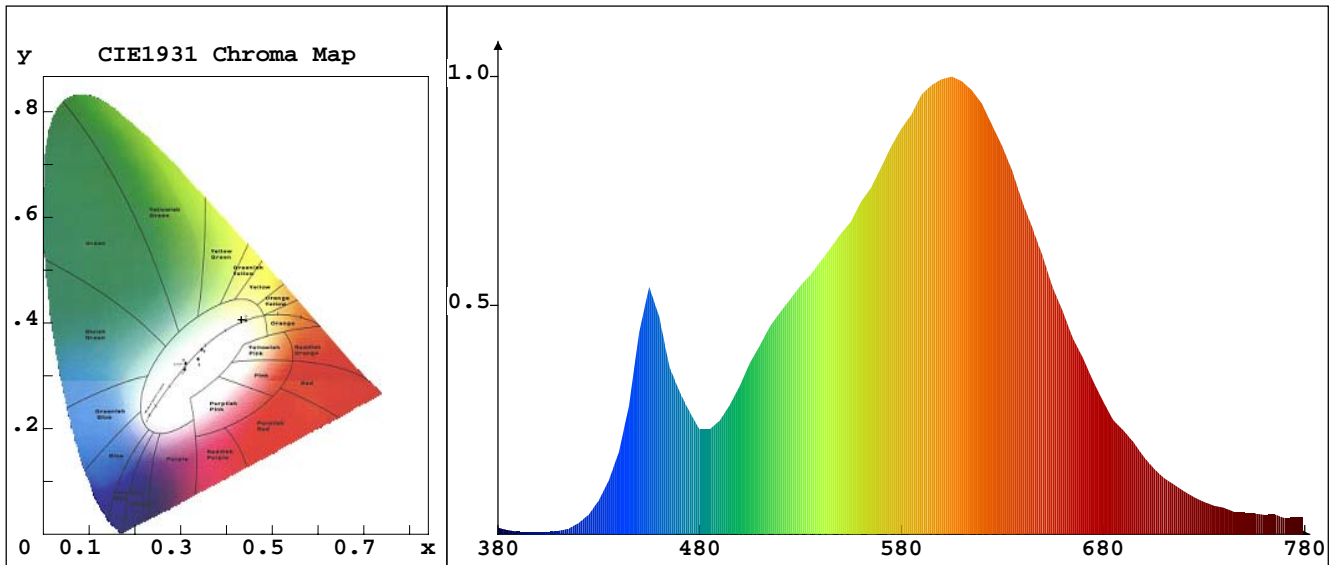


Photo Parameter

Luminous Flux: 629.3 lm

Light Efficiency: 103.2 lm/W

Radiant Power: 1.928 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: 20

REF: 3309

PMT HV: -572V

Ip: 25713

#: -0.958%

Flux test report

Product Remark

Type:1254017

Temperature:Tx=34.7°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 11:34

CIE Color Parameter

Chromaticity Coordinate: x=0.4297 y=0.4006

u=0.2474 v=0.3460

CCT: Tc= 3097K

Ratio: R=0.242 G=0.735 B=0.023 Peak Wave: 605nm Half Width: 137.4nm

Dominant WL.: 583.6nm Purity: 0.492

Rending Index: Ra= 83.9

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =90 | R3 =97 | R4 =83 | R5 =83 | R6 =88 | R7 =84 | R8 =63 |
| R9 =14 | R10=78 | R11=83 | R12=72 | R13=84 | R14=98 | R15=76 | |

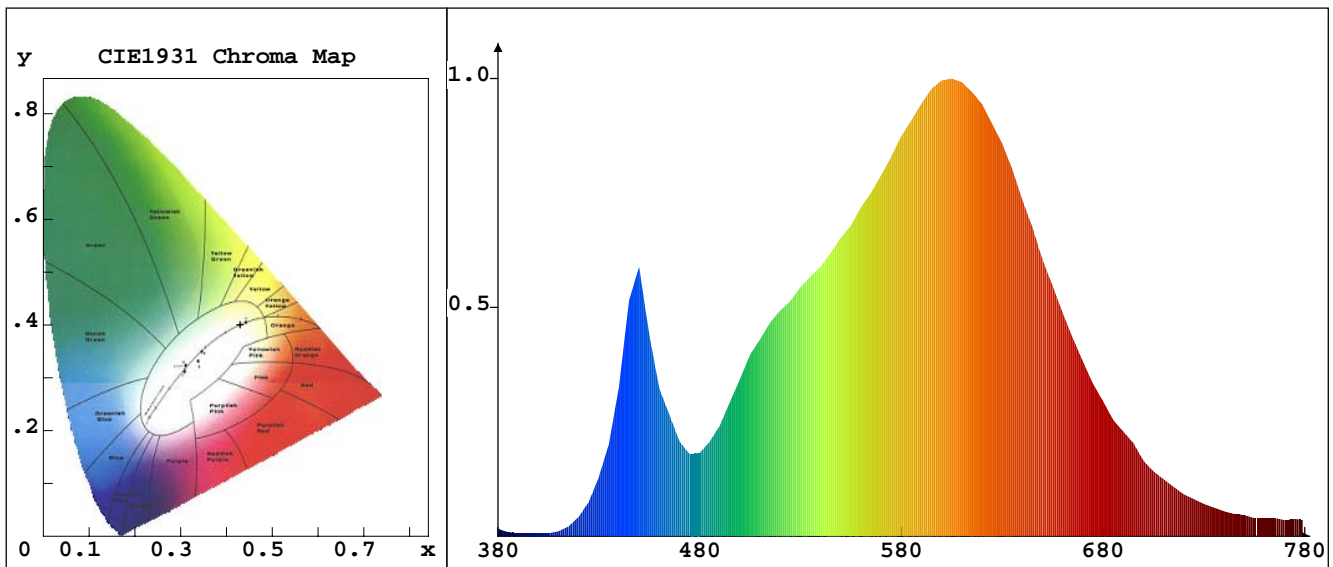


Photo Parameter

Luminous Flux: 638.3 lm

Light Efficiency: 104.6 lm/W

Radiant Power: 1.975 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: 23

REF: 3359

PMT HV: -570V

Ip: 25543

#: -0.651%

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: 5747
 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

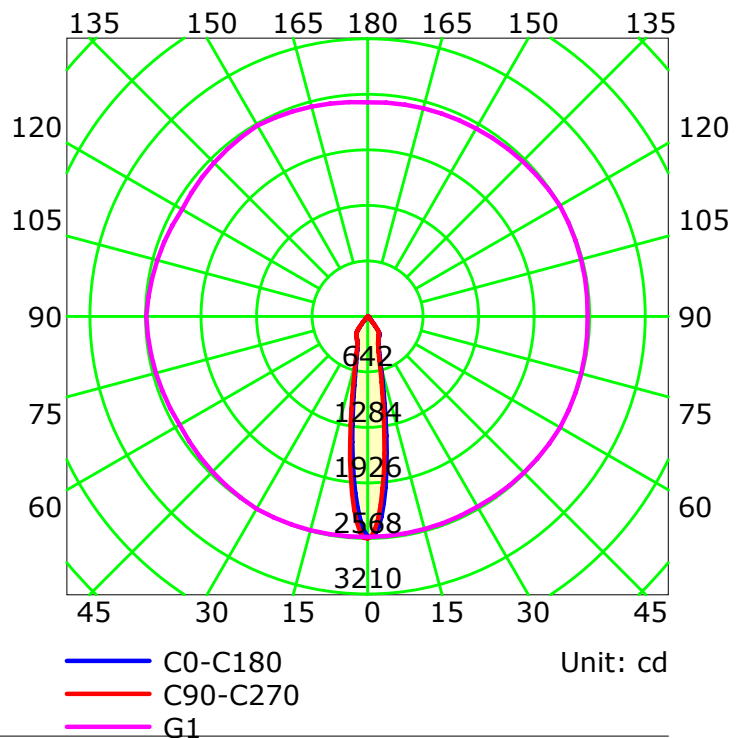
CIE Class: Direct
 Measurement Flux: 617.5 lm
 Downward Ratio: 74.12%
 Luminaire Efficacy Rating (LER): 101
 Max. Intensity: 2568.8 cd

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



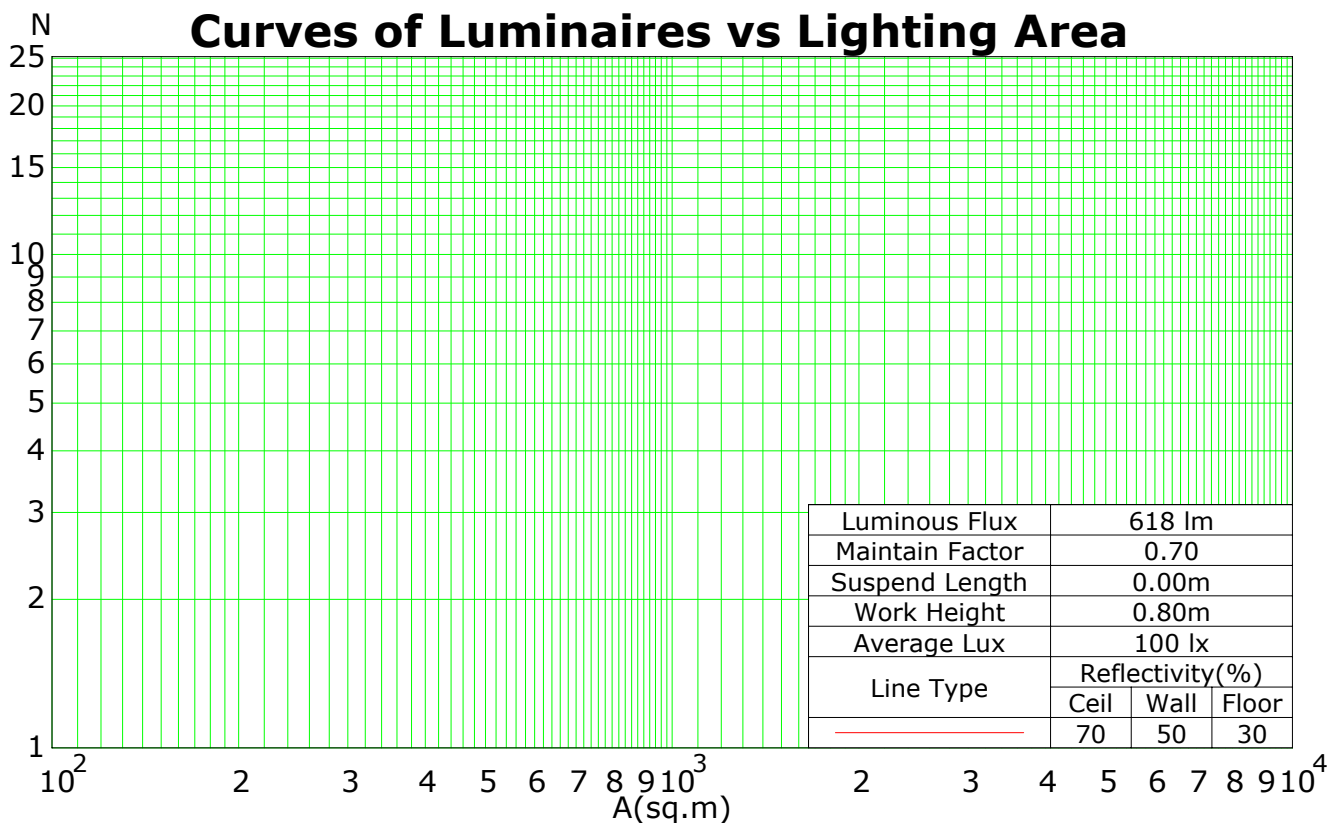
Test Lab: ASTRO
 Test Type: TYPE C
 Temperature: 25
 Operator:

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 |

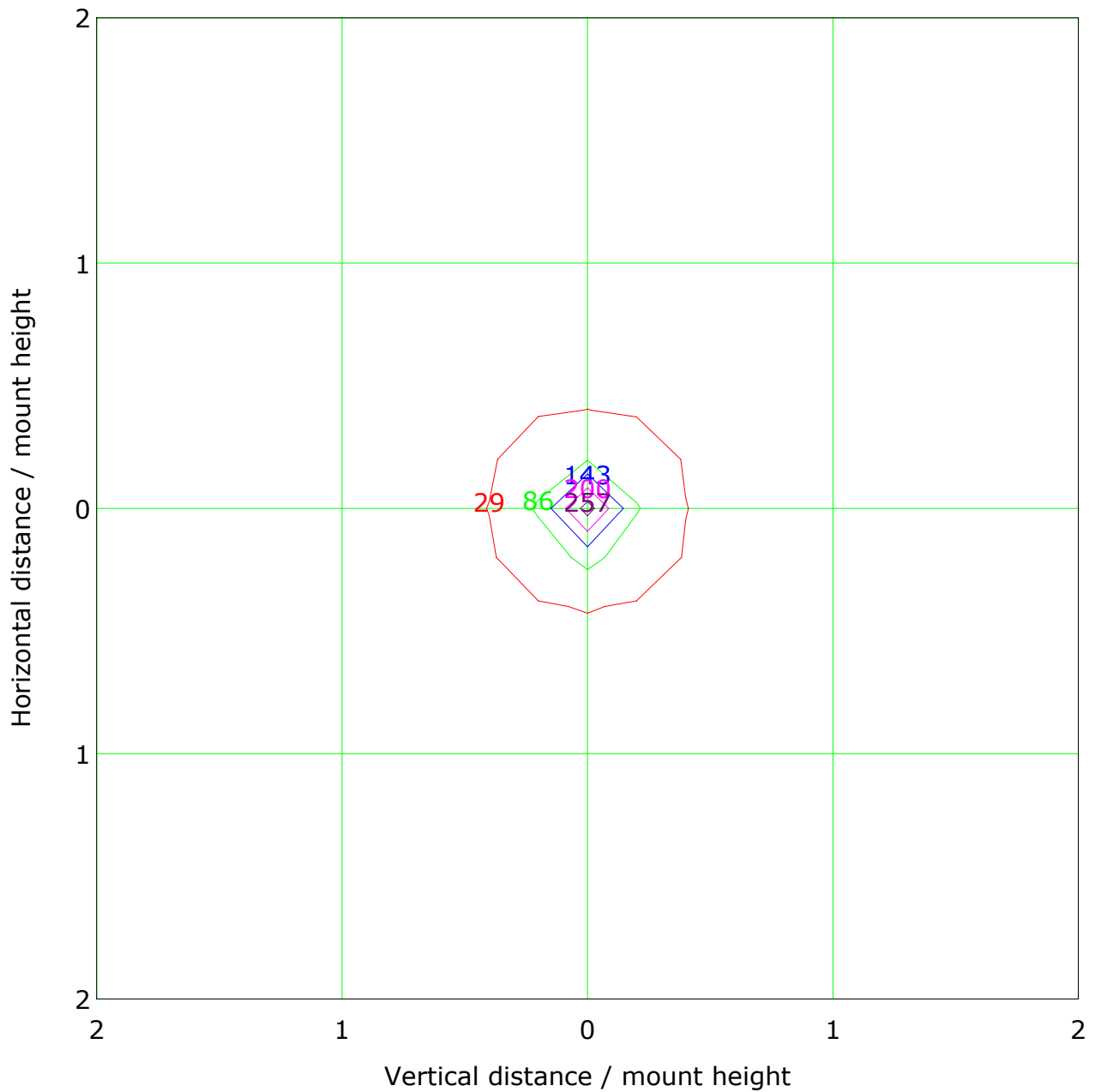
Spacing Criteria (0-180): 0.30
 Spacing Criteria (90-270): 0.30
 Spacing Criteria (Diagonal): 0.33



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%): 285 lx

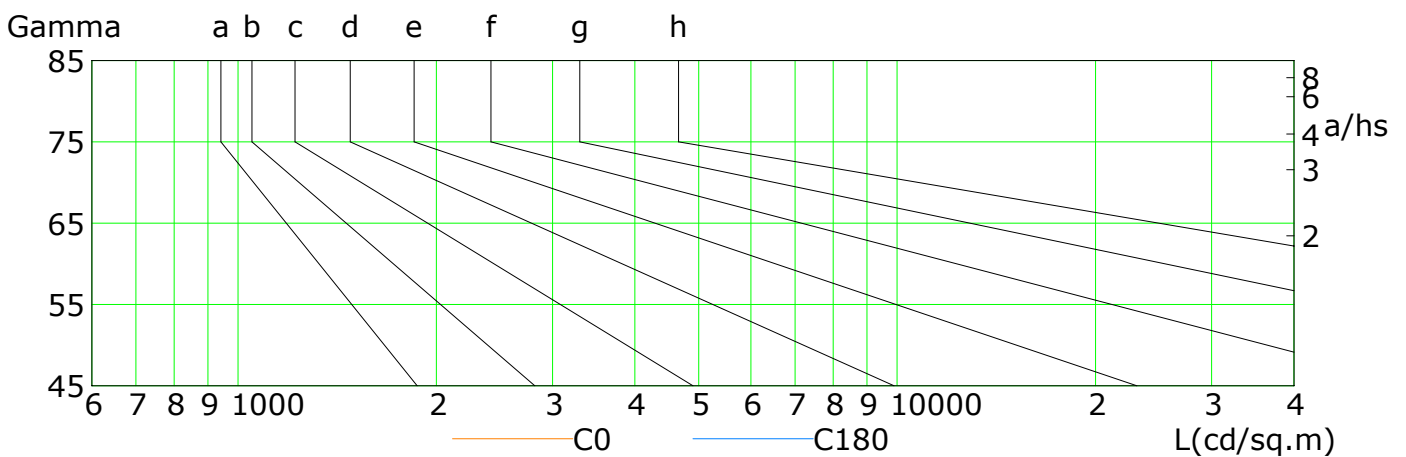
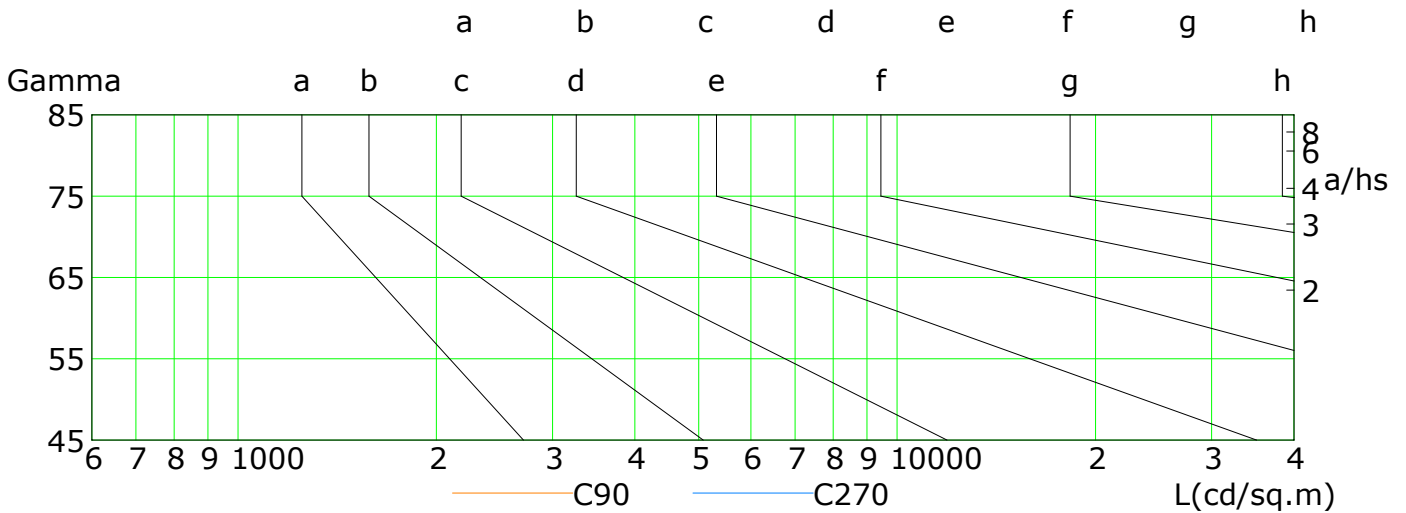
| | |
|----------------|----------------|
| (10%): 29 lx | (30%): 86 lx |
| (50%): 143 lx | (70%): 200 lx |
| (90%): 257 lx | |

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

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 | 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 |

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

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

Illuminance at a Distance

