



LM-79 Test Report

Relevant Standards

IES LM-79-2008
IES TM-30-2015
CIE 13.3-1995
IESNA TM-15-11
CIE 117:1995

Product SKU

STREAMLITE™ LED Tape Light
DI-24V-STMLT2-50

Test Conditions

Test Temperature: 26.5 °C
Luminaire Sample Length: 1000 mm.
Power Supply: Agilent E3634A DC Power Supply
Voltage: 24.0 VDC
Current: 0.323 A
Power Consumption: 7.8 W

Test Date

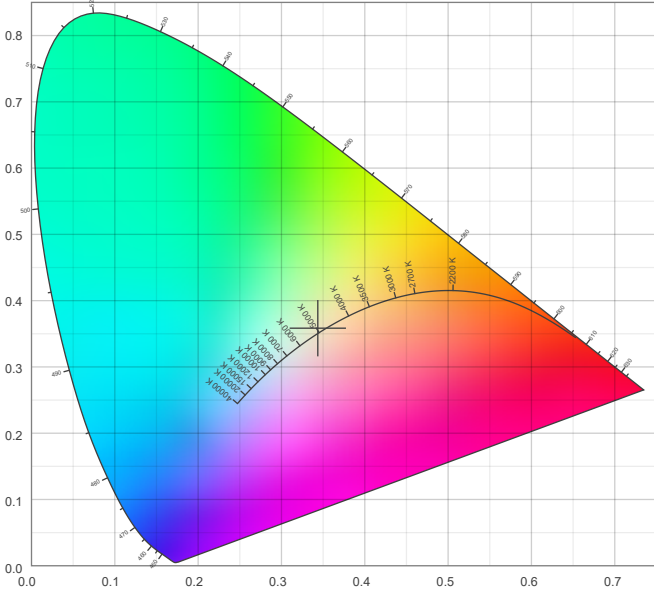
12/30/2025

Color Details

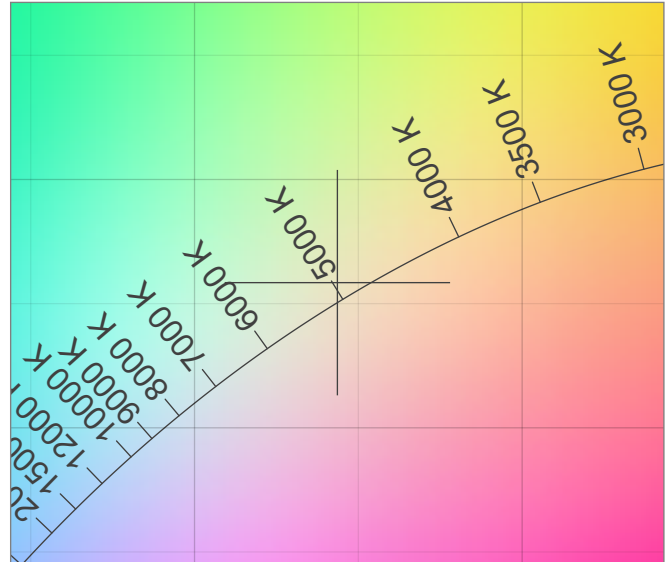
| | |
|---|-----------------------|
| Correlated Color Temperature | CCT = 5084 |
| CIE Test Color Method General Index | CRI = 93.0 |
| CIE Test Color Method Sample Nine Score | R9 = 55.0 |
| IES TM-30-15 Fidelity Index | R _f = 90.1 |
| IES TM-30-15 Gamut Index | R _g = 99.5 |
| Luminous Flux | Lm = 937 |

| | |
|----------------------------|-------------------------|
| Color coordinates CIE 1931 | (x;y) = (0.344;0.358) |
| Color coordinate CIEs 1960 | (u;v) = (0.208;0.325) |
| Color coordinate CIEs 1976 | (u';v') = (0.208;0.488) |
| Color deviation from BBL | Duv = 0.0040 |
| Color Quality Scale (CQS) | CQS = 91.1 |

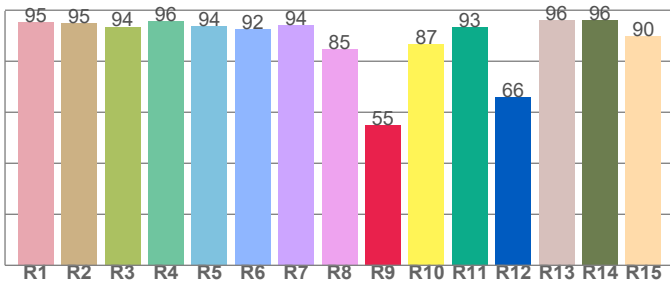
CIE 1931



CIE 1931 – zoomed on Planckian locus



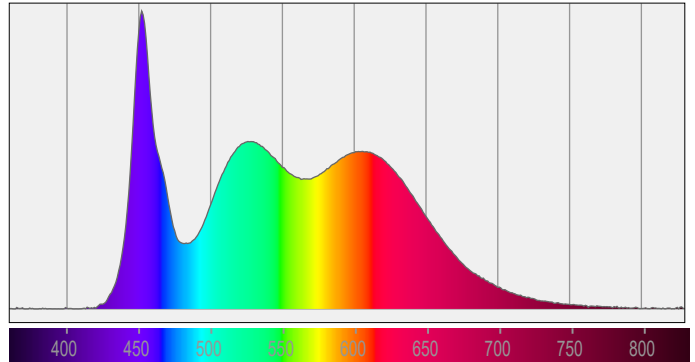
Color Rendering Index per Reference Color (CIE 1995)



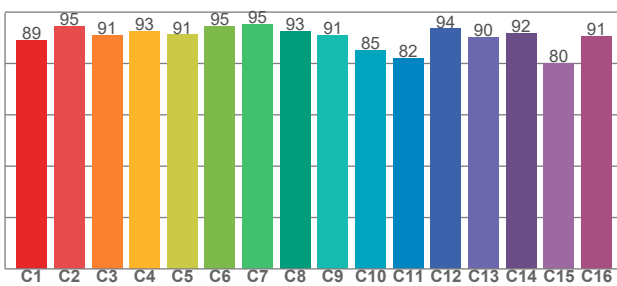
CRI R values, only R1-R8 are used to calculate final CRI value

| | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
| 95.2 | 95.0 | 93.5 | 95.7 | 93.7 | 92.4 | 94.2 | 84.5 | 55.0 | 86.5 | 93.5 | 66.0 | 96.0 | 96.0 | 89.8 |

Spectral Power Distribution (SPD) / W/nm – 0-100%



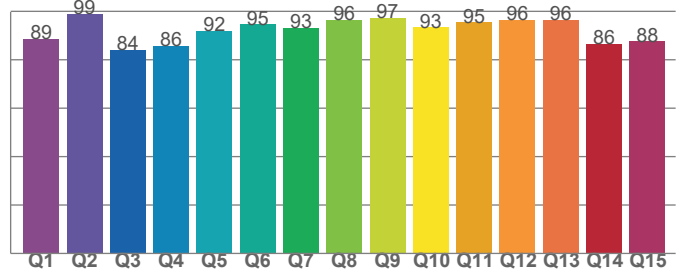
TM30-18 Rf-Values per Hue Bin



TM30 C values, 16 binned values out of total of 99 C values

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
| 89.1 | 94.6 | 91.0 | 92.5 | 91.2 | 94.6 | 95.3 | 92.7 | 91.0 | 85.1 | 82.0 | 93.5 | 90.2 | 91.8 | 80.1 | 90.6 |

Color Quality Scale by Reference Color



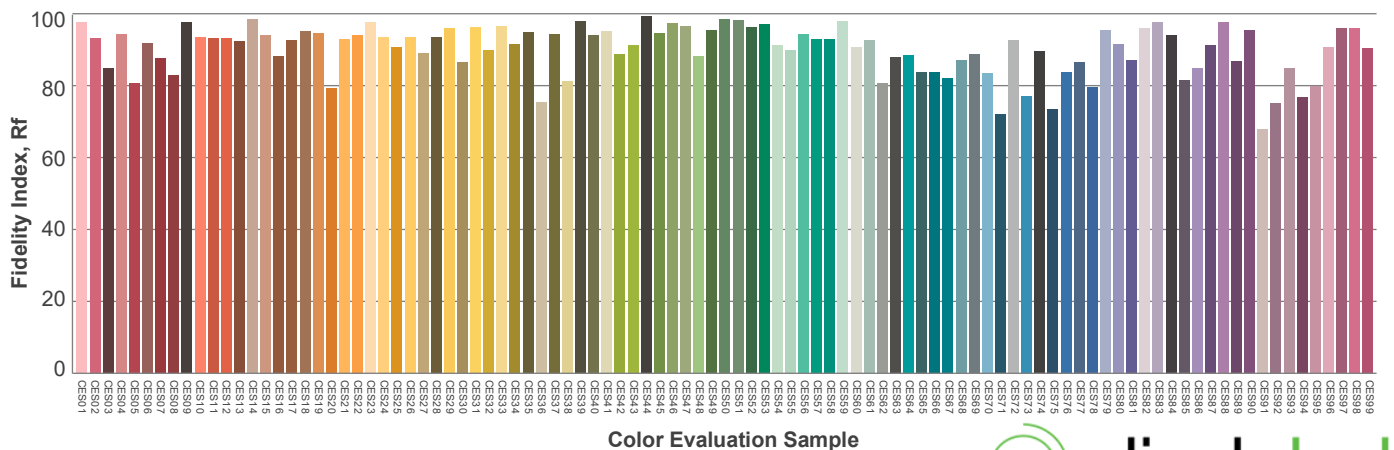
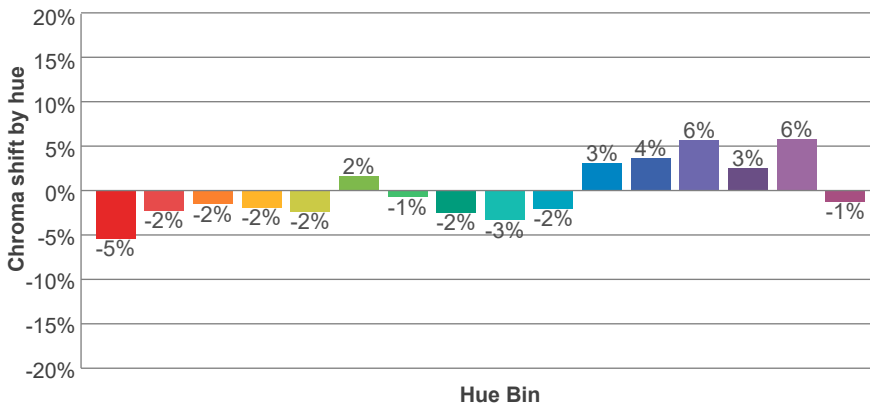
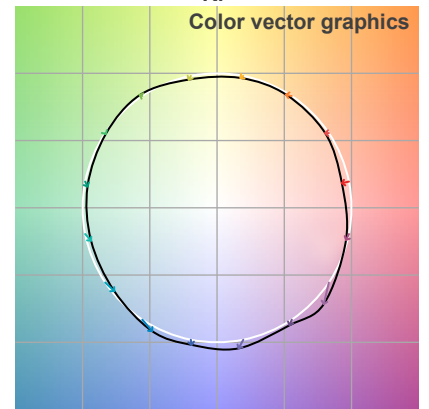
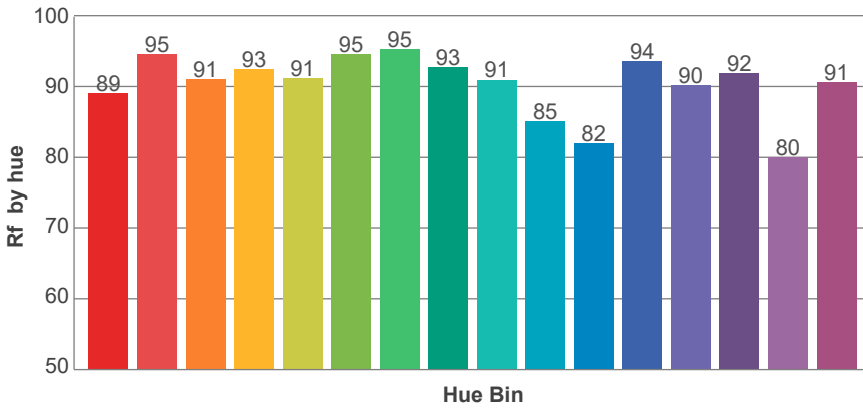
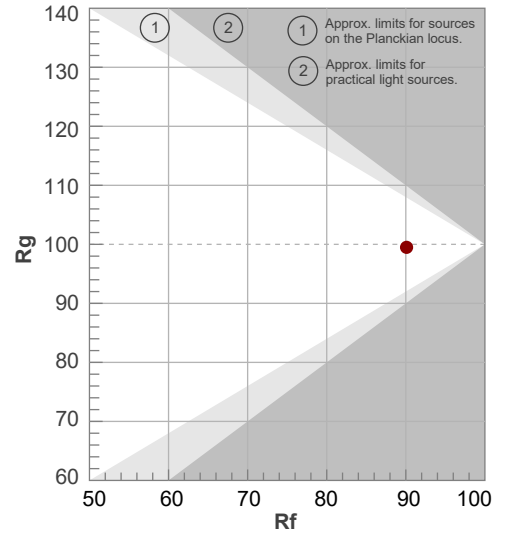
CQS Q values

| | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
| 88.7 | 99.0 | 84.1 | 85.6 | 91.9 | 94.6 | 93.2 | 96.3 | 97.1 | 93.3 | 95.4 | 96.3 | 96.3 | 86.4 | 87.5 |

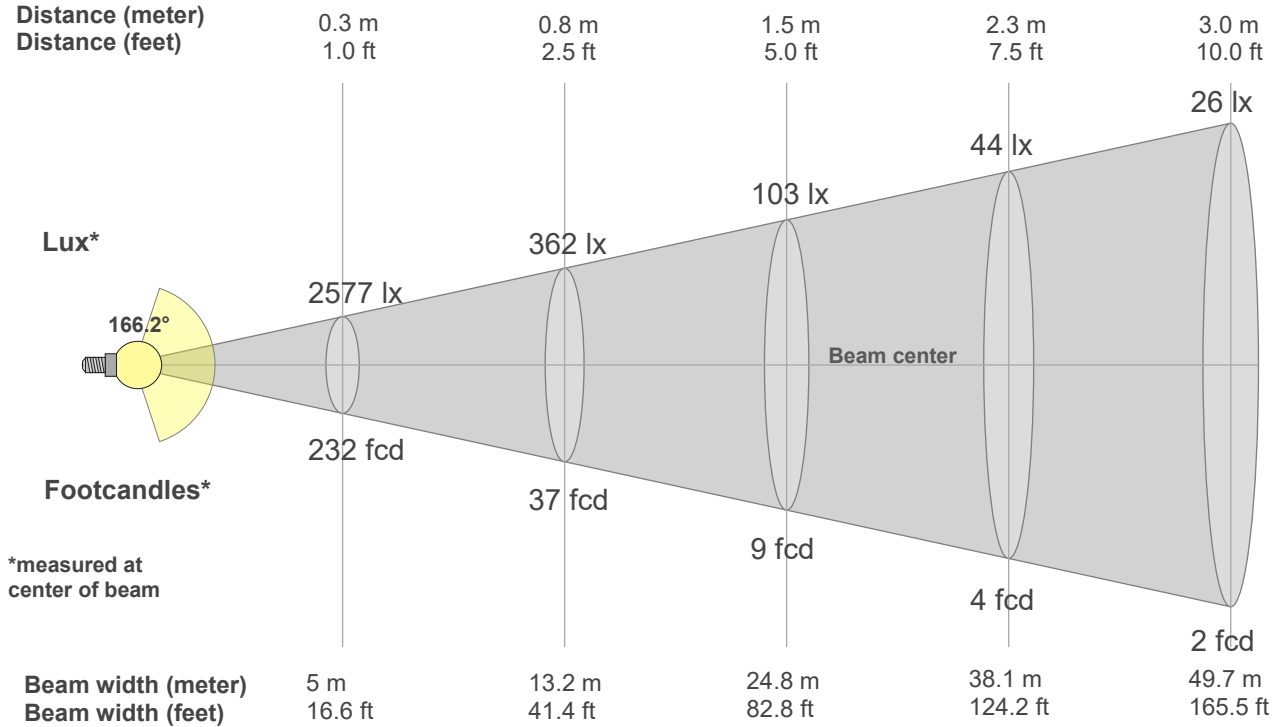
Rf 90.1
Fidelity index Rf

Rg 99.5
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 89 | -5% | 0% |
| 2 | 95 | -2% | 1% |
| 3 | 91 | -2% | 4% |
| 4 | 93 | -2% | 2% |
| 5 | 91 | -2% | 2% |
| 6 | 95 | 2% | 1% |
| 7 | 95 | -1% | 0% |
| 8 | 93 | -2% | 3% |
| 9 | 91 | -3% | 6% |
| 10 | 85 | -2% | 9% |
| 11 | 82 | 3% | 11% |
| 12 | 94 | 4% | 1% |
| 13 | 90 | 6% | -5% |
| 14 | 92 | 3% | -4% |
| 15 | 80 | 6% | -15% |
| 16 | 91 | -1% | -5% |



Beam Details



*measured at center of beam

Beam Intensities from 1-20m

| 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| 232lx | 58lx | 26lx | 14lx | 9lx | 6lx | 5lx | 4lx | 3lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx |
| 21.5fcd | 5.4fcd | 2.4fcd | 1.3fcd | 0.9fcd | 0.6fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd |

Intensities in 0° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 232 | 230 | 225 | 216 | 205 | 191 | 176 | 160 | 143 | 123 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100% | 99% | 97% | 93% | 88% | 82% | 76% | 69% | 62% | 53% | 26% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Intensities in 90° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 232 | 229 | 221 | 208 | 190 | 166 | 136 | 103 | 65 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100% | 99% | 95% | 90% | 82% | 71% | 59% | 44% | 28% | 12% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Intensities in 180° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 232 | 230 | 225 | 216 | 205 | 191 | 176 | 160 | 143 | 123 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100% | 99% | 97% | 93% | 88% | 82% | 76% | 69% | 62% | 53% | 26% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Intensities in 270° c-plane

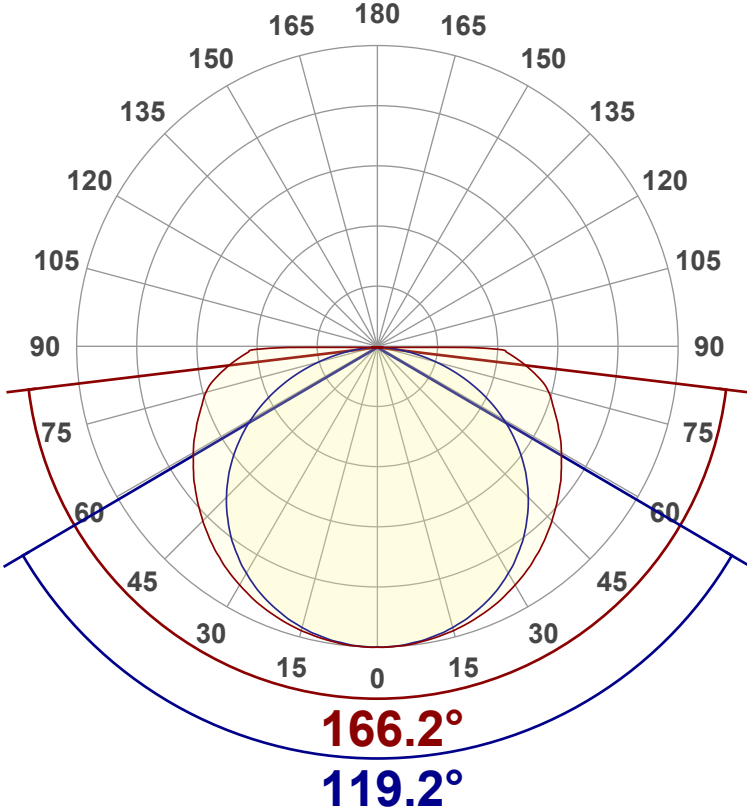
| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 232 | 229 | 221 | 208 | 190 | 166 | 136 | 103 | 65 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100% | 99% | 95% | 90% | 82% | 71% | 59% | 44% | 28% | 12% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 143.7° | 187.2° | 224.7° | 62.7% | 40.4% |



Luminous Intensity Diagram

Unit: 0-100% of peak intensity



Main Values

| | |
|----------------------|----------------|
| Output (Total Lumen) | 937 lm |
| Lumen Up% / Down% | 3.48% / 96.52% |
| Peak Intensity | 232 cd |
| Beam Angle (50%) | 143.7° |
| Beam Angle (90%) | 119.2° |
| Beam Angle (10%) | 166.2° |

Cut-off Angle

| | |
|--------------|--------|
| Average 2,5% | 224.7° |
|--------------|--------|

Field Angle

| | |
|-------------|--------|
| Average 10% | 187.2° |
|-------------|--------|

Intensity Ratio

| | |
|--------------|-------|
| In 120° cone | 62.7% |
| In 90° cone | 40.4% |

C000-C180 C090-C270

Zonal Lumen Summary

| | | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
| 22.0 lm | 63.8 lm | 99.3 lm | 125 lm | 138 lm | 139 lm | 128 lm | 109 lm | 80.3 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 8.10 lm | 7.73 lm | 7.26 lm | 6.56 lm | 2.94 lm | 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm |



LCS Table

| BUG rating: | B1 U0 G1 | |
|----------------------|----------|----------|
| Forward light | Lumens | Lumens % |
| Low(0-30): | 96 | 10.2% |
| Medium(30-60): | 208.7 | 22.3% |
| High(60-80): | 122.8 | 13.1% |
| Very high(80-90): | 41 | 4.4% |
| Back light | | |
| Low(0-30): | 96 | 10.2% |
| Medium(30-60): | 208.7 | 22.3% |
| High(60-80): | 122.8 | 13.1% |
| Very high(80-90): | 40.9 | 4.4% |
| Uplight | | |
| Low(90-100): | 0 | 0% |
| High(100-180): | 0 | 0% |

LCS Graph

