

Photometric Report

ELP-CL — 26 DEGREE (HIGH QUALITY MODE)

SPEC SHEET

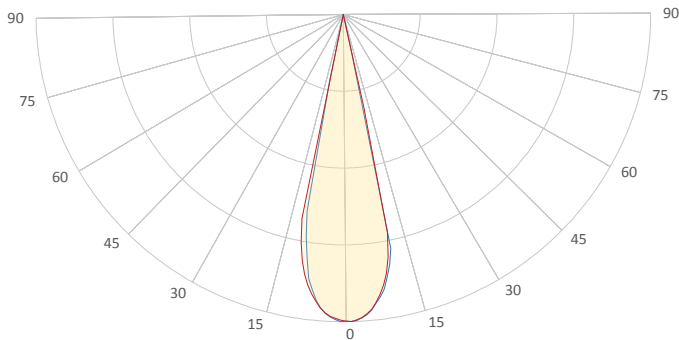
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



Total Fixture Output: 5600 lm
Light Engine Output: 20 klm
Efficacy: 31 Lumen/Watt
Lens Option: 26° Lens
Zoomrange: 26°
CRI: 90
CQS: N/A
TM-30 Rf: 84.5
TM-30 Rg: 106.3
TLCI: 87
Color Temperature: Variable

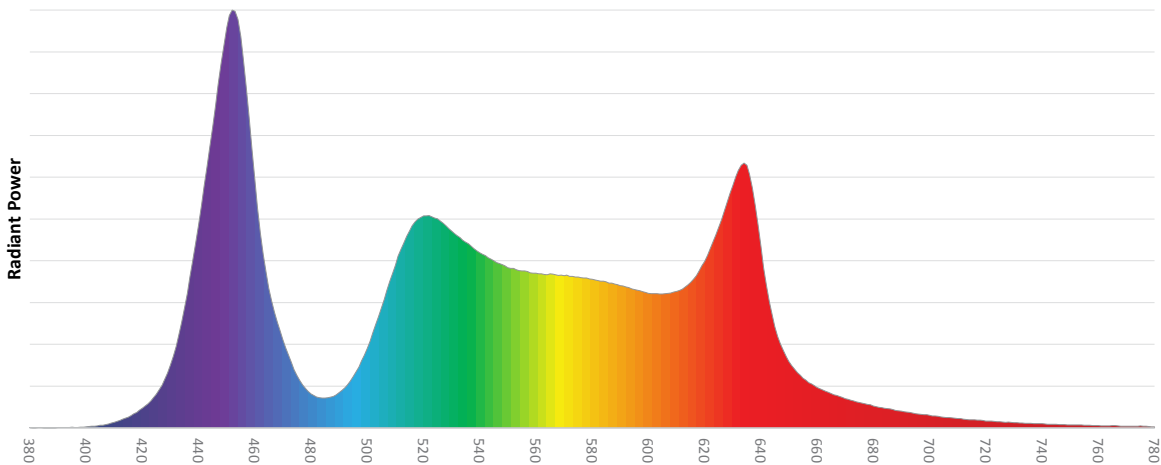
MEASUREMENT



- Vertical - Horizontal

Catalog Number: 9045107780
Measured Output: 5722 lm
Measured Peak: 48559 cd
Consumed Power: 190 W
Efficacy: 30.1 Lumen/Watt
Beam Angle (50%): 23.3°
Field Angle (10%): 25.1°
Cutoff Angle (3%): 25.8°
Measurement Condition:
Ambient Temperature: 25 +/- 5C
AC Supply: 230V/50Hz

SPECTRAL DISTRIBUTION

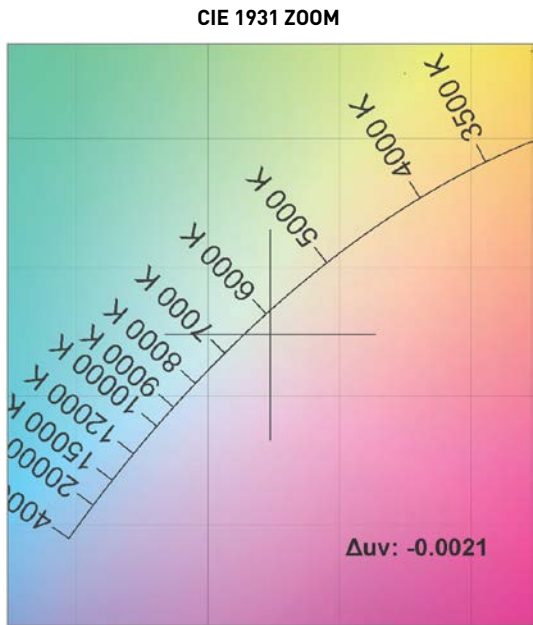
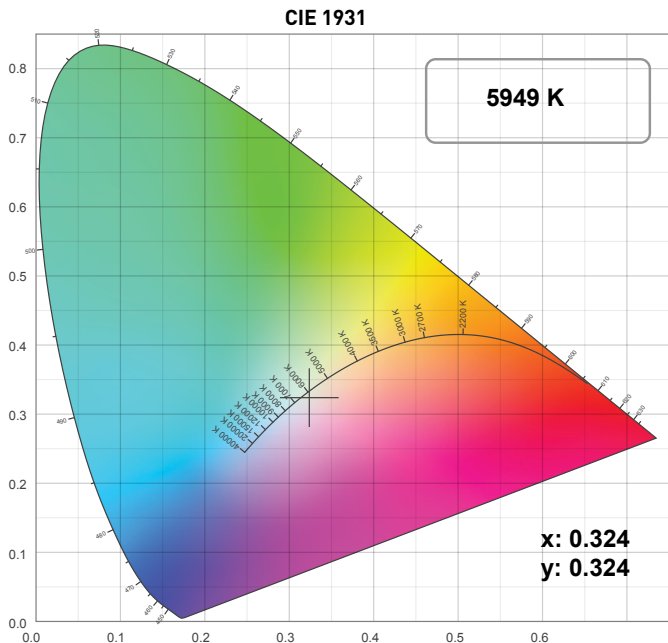


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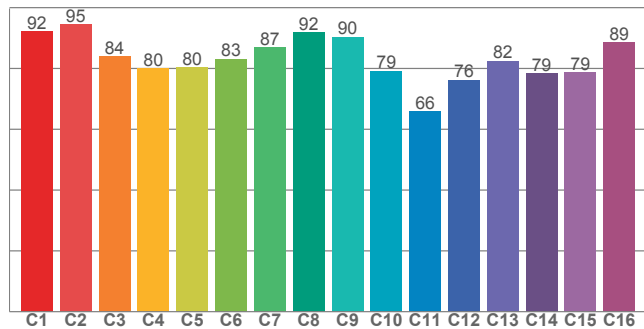
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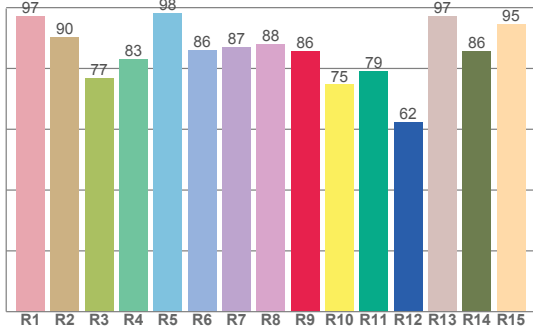
CHROMATICITY



TM30: 83.1



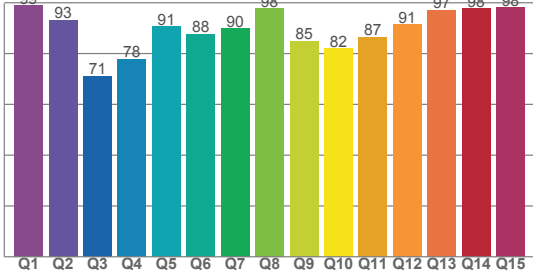
CRI: 88.4 (R1-R8)



COLOR PARAMETERS

| COLOR TEMPERATURE | COLOR RENDERING INDEX | RED COMPONENT | COLOR FIDELITY | COLOR GAMUT |
|-------------------|-----------------------|---------------|----------------|-------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg |
| 5949 K | 88.4 | 85.6 | 83.1 | 107.8 |

CQS: 87.0



| TELEVISION LIGHTING CONSISTENCY INDEX | COLOR QUALITY SCALE | COLOR COORDINATE CIE 1931 | COLOR COORDINATE CIE 1931 | COLOR COORDINATE CIE 1964 | COLOR COORDINATE CIE 1964 | COLOR DEVIATION FROM BLACK BODY |
|---------------------------------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| TLCI | CQS | x | y | u | v | Δuv |
| 87 | 87.0 | 0.324 | 0.324 | 0.208 | 0.311 | -0.0021 |

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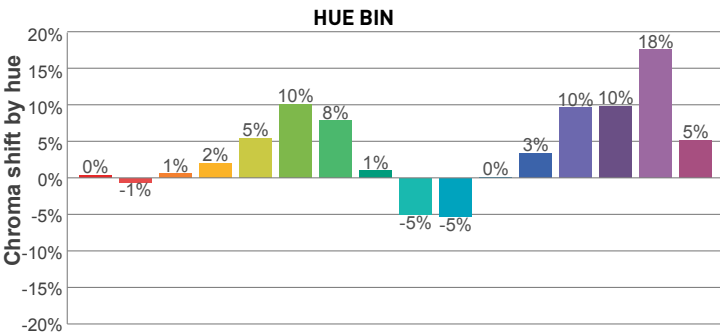
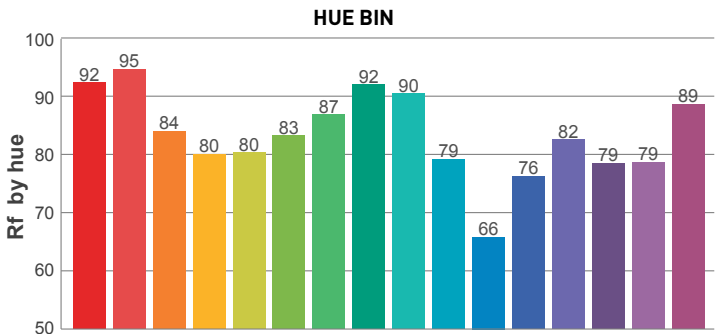
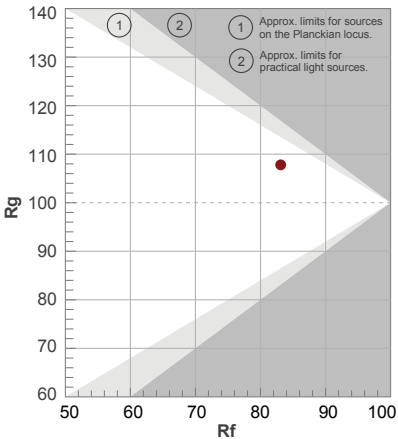
SPEC SHEET

TM30

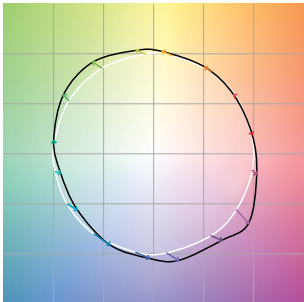
Rf 83.1
Fidelity index Rf

Rg 107.8
Gamut index Rg

| Hue Bin | Rf | Graphic shifts (%) | |
|---------|----|--------------------|-----|
| | | Chroma | Hue |
| 1 | 92 | 0% | -2% |
| 2 | 95 | -1% | 1% |
| 3 | 84 | 1% | 8% |
| 4 | 80 | 2% | 11% |
| 5 | 80 | 5% | 8% |
| 6 | 83 | 10% | 4% |
| 7 | 87 | 8% | -2% |
| 8 | 92 | 1% | -3% |
| 9 | 90 | -5% | 2% |
| 10 | 79 | -5% | 10% |
| 11 | 66 | 0% | 19% |
| 12 | 76 | 3% | 14% |
| 13 | 82 | 10% | 10% |
| 14 | 79 | 10% | 6% |
| 15 | 79 | 18% | -4% |
| 16 | 89 | 5% | -3% |



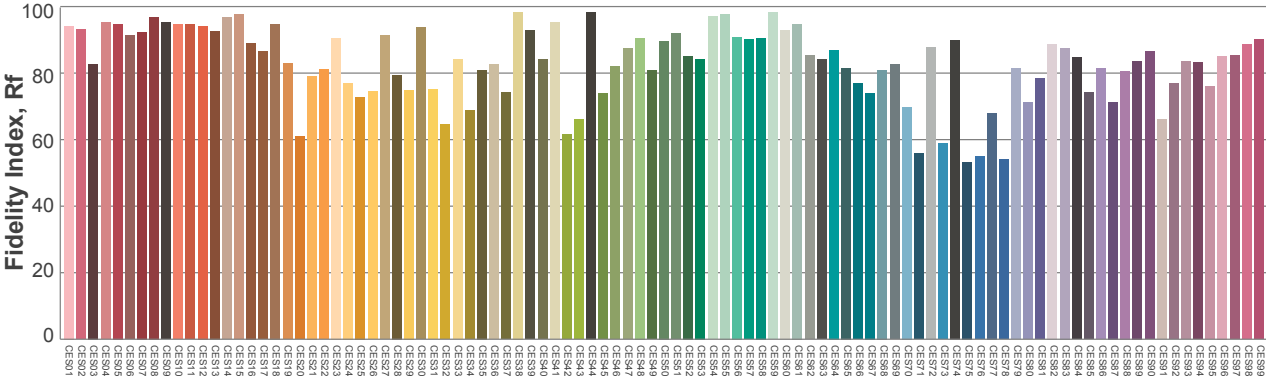
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE

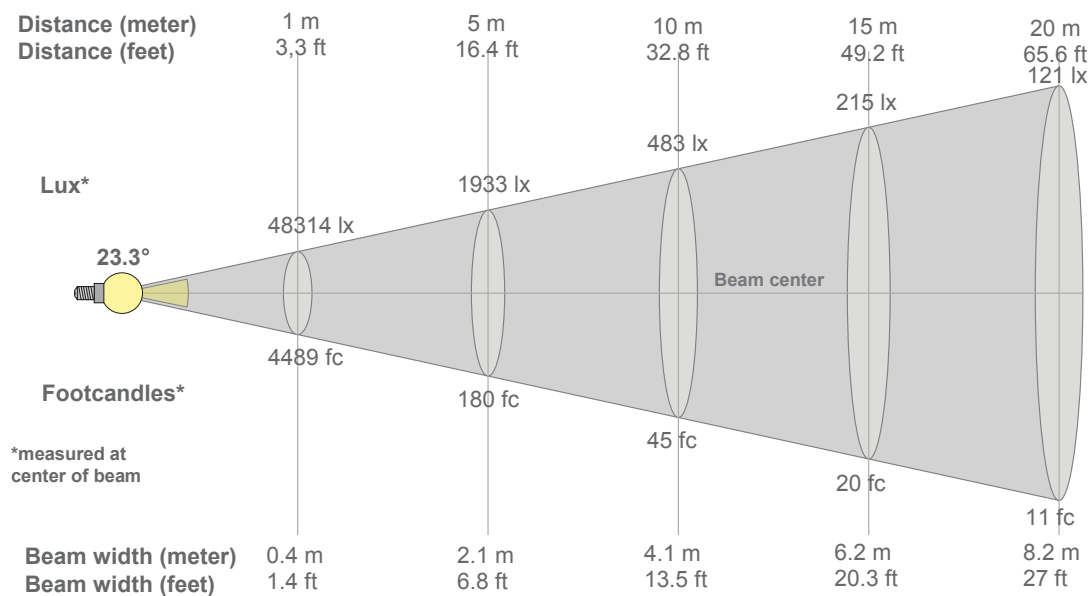


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BEAM DETAILS

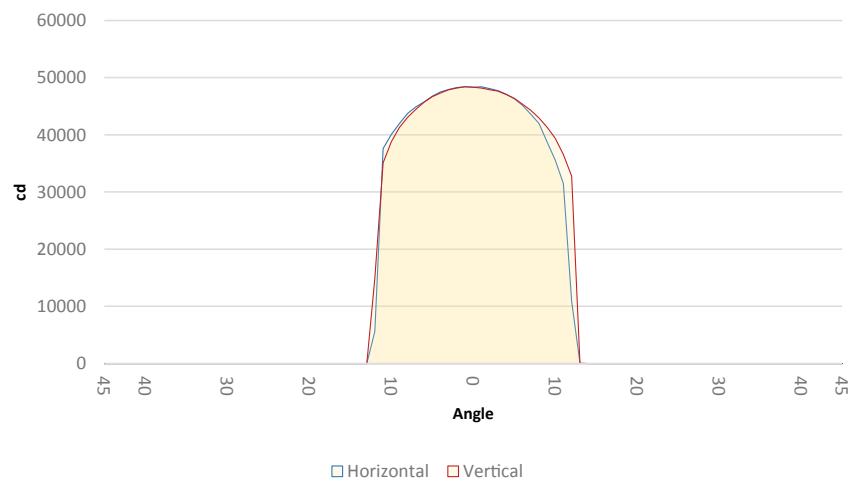


Beam width:
Beam luminous intensity formula:

$w = 0.4 \cdot \text{distance}$
 $\text{lux} = 48314 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 48314 / (\text{distance}^2)$ (where distance is in feet)

BEAM ILLUMINANCE 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 |
| 48314lx | 12078lx | 5368lx | 3020lx | 1933lx | 1342lx | 986lx | 755lx | 596lx | 483lx | 399lx | 336lx | 286lx | 246lx | 215lx | 189lx | 167lx | 149lx | 134lx | 121lx |
| 4488.5fc | 1122.1fc | 498.7fc | 280.5fc | 179.5fc | 124.7fc | 91.6fc | 70.1fc | 55.4fc | 44.9fc | 37.1fc | 31.2fc | 26.6fc | 22.9fc | 19.9fc | 17.5fc | 15.5fc | 13.9fc | 12.4fc | 11.2fc |



| BEAM ANGLE 50% | FIELD ANGLE 10% | CUTOFF ANGLE 3% |
|----------------|-----------------|-----------------|
| 23.3° | 25.1° | 25.8° |