

Photometric Report

ELP-CL — 50 DEGREE (HIGH OUTPUT MODE)

SPEC SHEET

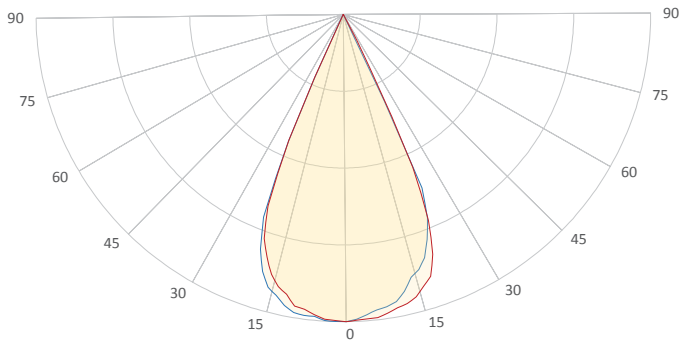
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



Total Fixture Output: 6900 lm
Light Engine Output: 20 klm
Efficacy: 28 Lumen/Watt
Lens Option: 50° Lens
Zoomrange: 50°
CRI: 85
CQS: N/A
TM-30 Rf: 84.6
TM-30 Rg: 111.6
TLCI: 85
Color Temperature: Variable

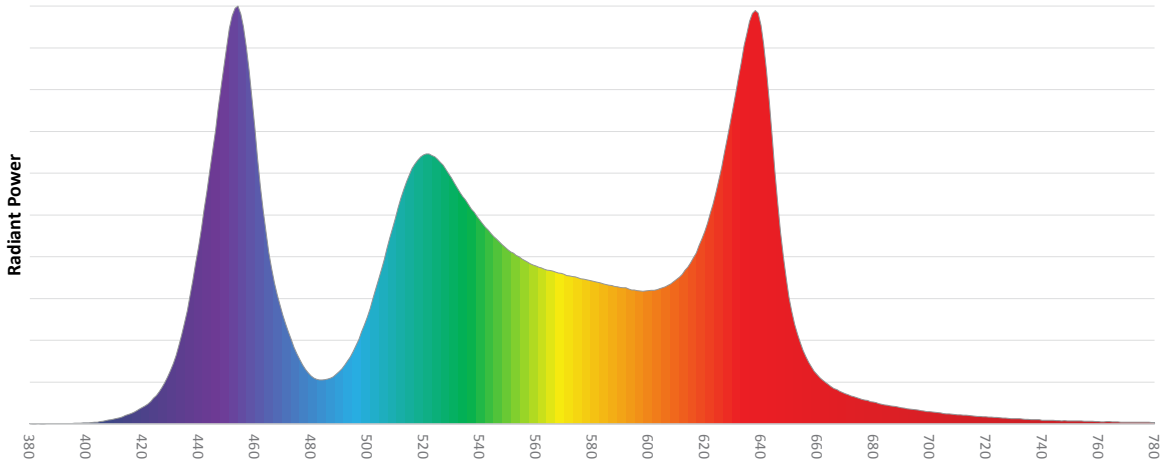
MEASUREMENT



- Vertical - Horizontal

Catalog Number: 9045107780
Measured Output: 7263 lm
Measured Peak: 14666 cd
Consumed Power: 250 W
Efficacy: 29.1 Lumen/Watt
Beam Angle (50%): 47.9°
Field Angle (10%): 51.9°
Cutoff Angle (3%): 52.7°
Measurement Condition:
Ambient Temperature: 25 +/- 5C
AC Supply: 230V/50Hz

SPECTRAL DISTRIBUTION

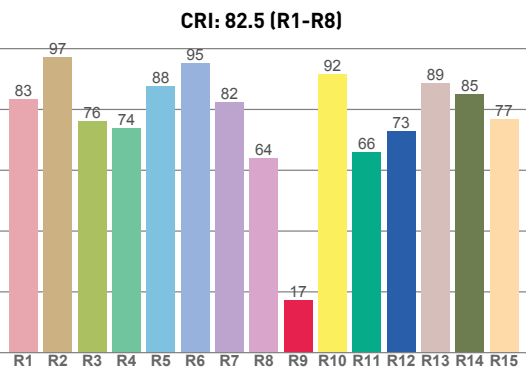
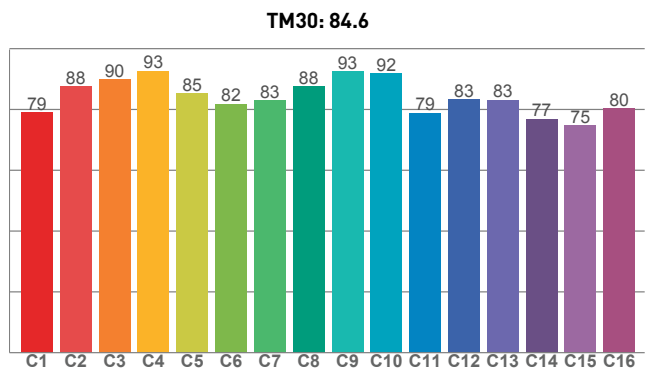
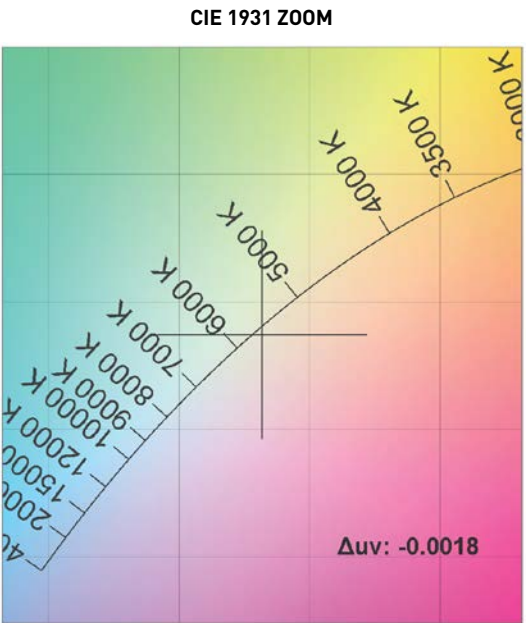
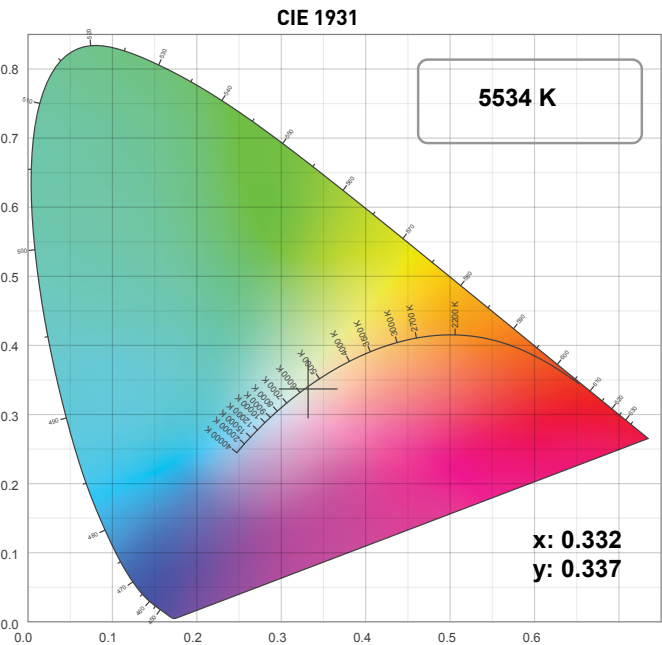


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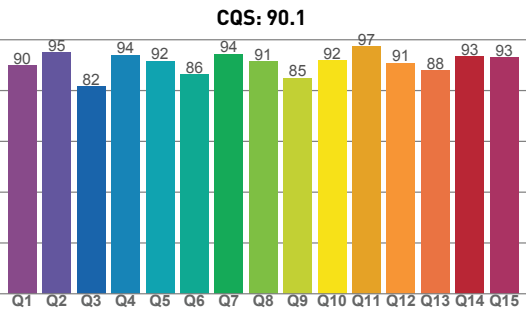
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CHROMATICITY



COLOR PARAMETERS

COLOR TEMPERATURE	COLOR RENDERING INDEX	RED COMPONENT	COLOR FIDELITY	COLOR GAMUT
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5534 K	82.5	17.3	84.6	111.7



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
85	90.1	0.332	0.337	0.208	0.317	-0.0018

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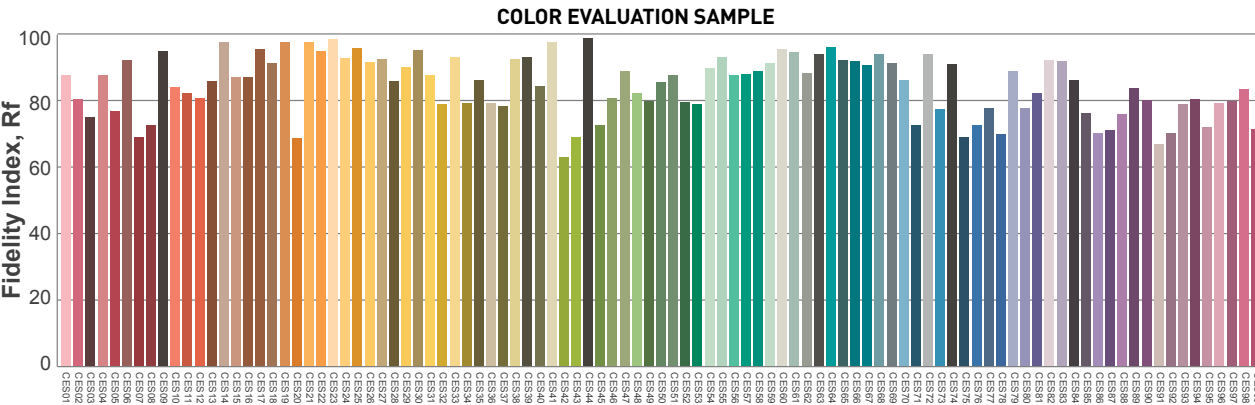
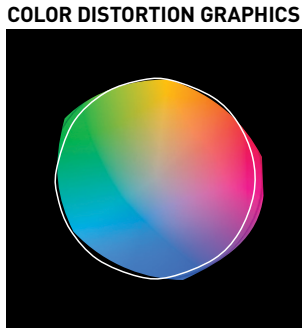
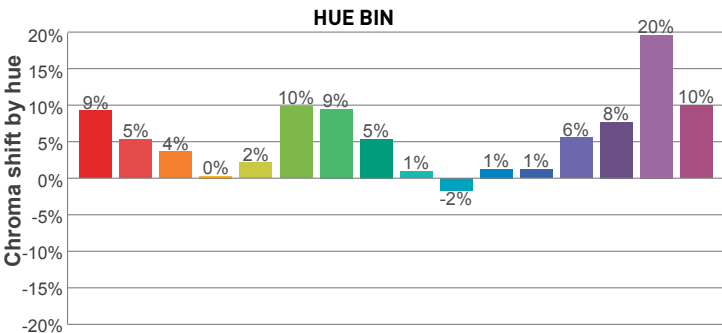
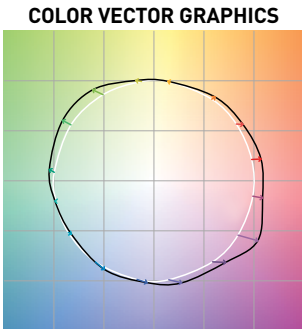
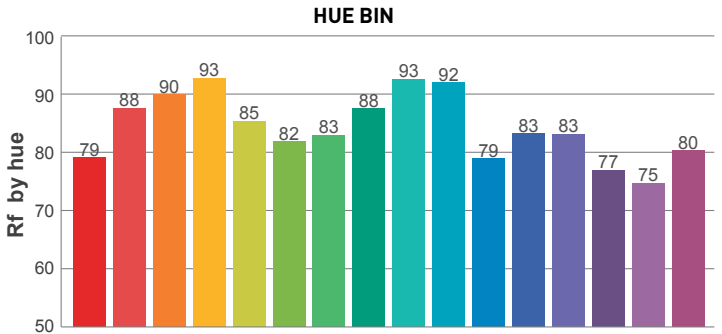
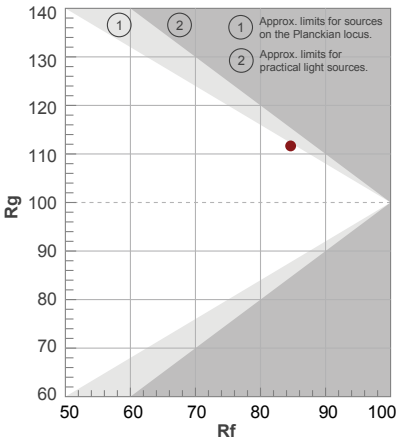
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TM30

Rf 84.6
Fidelity index Rf

Rg 111.7
Gamut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	79	9%	-1%
2	88	5%	-4%
3	90	4%	-2%
4	93	0%	3%
5	85	2%	5%
6	82	10%	6%
7	83	9%	1%
8	88	5%	-2%
9	93	1%	0%
10	92	-2%	3%
11	79	1%	12%
12	83	1%	10%
13	83	6%	12%
14	77	8%	11%
15	75	20%	6%
16	80	10%	0%

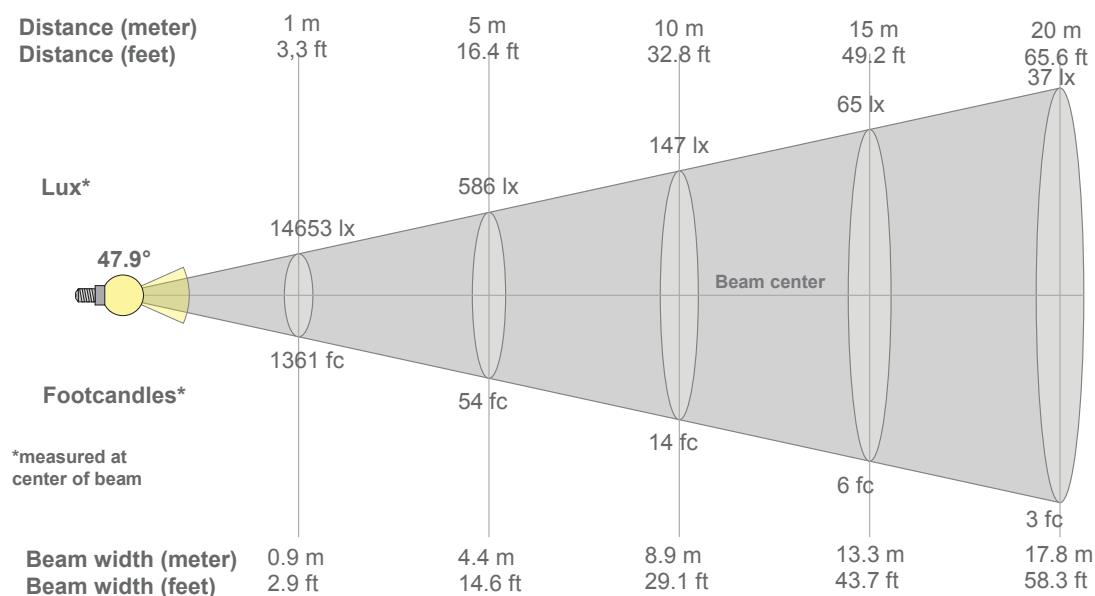


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BEAM DETAILS

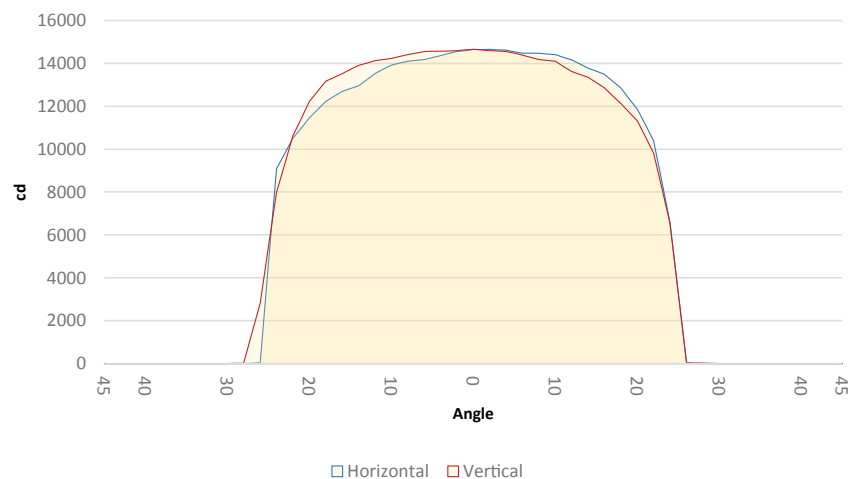


Beam width:
Beam luminous intensity formula:

$w = 0.9 \times \text{distance}$
 $\text{lux} = 14653 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 14653 / (\text{distance}^2)$ (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
14653lx	3663lx	1628lx	916lx	586lx	407lx	299lx	229lx	181lx	147lx	121lx	102lx	87lx	75lx	65lx	57lx	51lx	45lx	41lx	37lx
1361.4fc	340.3fc	151.3fc	85.1fc	54.5fc	37.8fc	27.8fc	21.3fc	16.8fc	13.6fc	11.3fc	9.5fc	8.1fc	6.9fc	6.1fc	5.3fc	4.7fc	4.2fc	3.8fc	3.4fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
47.9°	51.9°	52.7°