

Photometric Report

ELP-WW — 50 DEGREE

SPEC SHEET

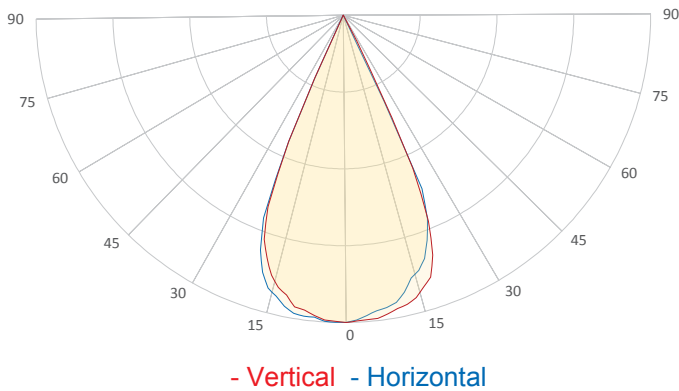
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



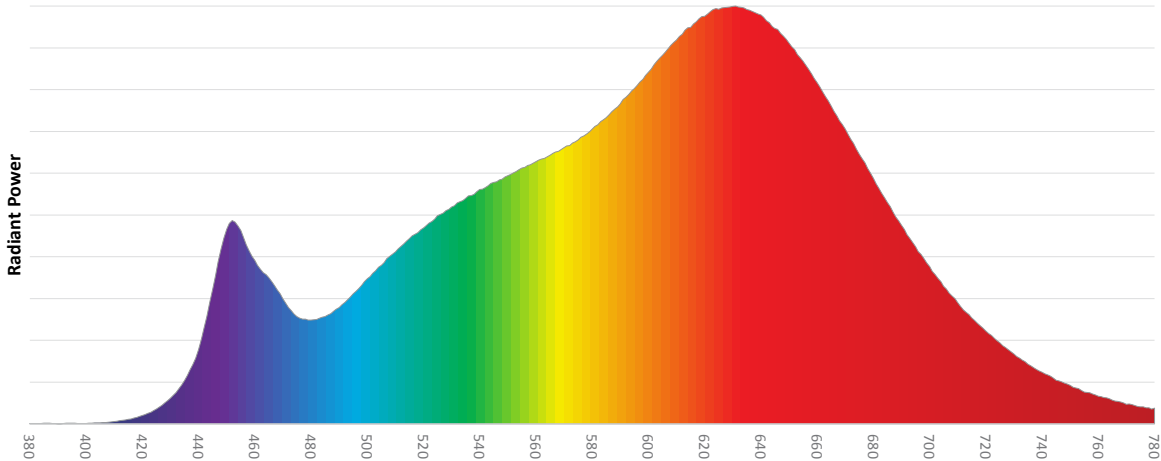
Total Fixture Output: 7000 lm
Light Engine Output: 16 klm
Efficacy: 28 Lumen/Watt
Lens Option: 50° Lens
Zoomrange: 50°
CRI: 97
CQS: N/A
TM-30 Rf: 93.3
TM-30 Rg: 101.3
TLCI: 96
Color Temperature: 3000 K

MEASUREMENT



Catalog Number: 9045107781
Measured Output: 6907 lm
Measured Peak: 13947 cd
Consumed Power: 240 W
Efficacy: 28.8 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

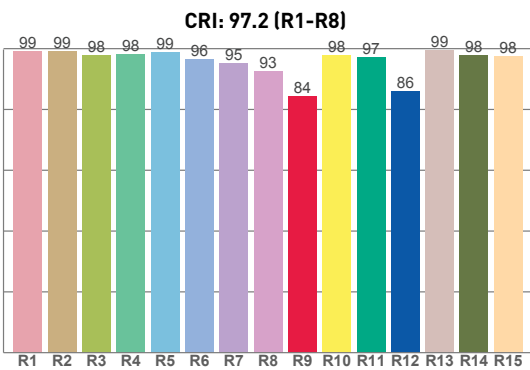
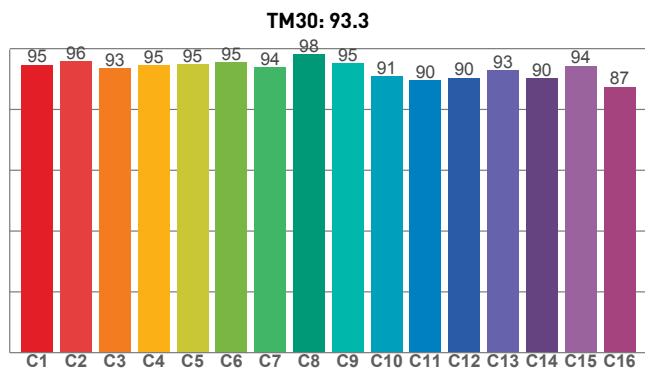
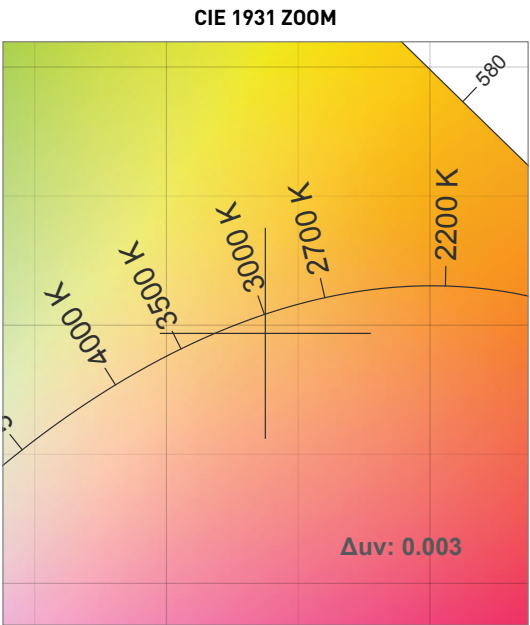
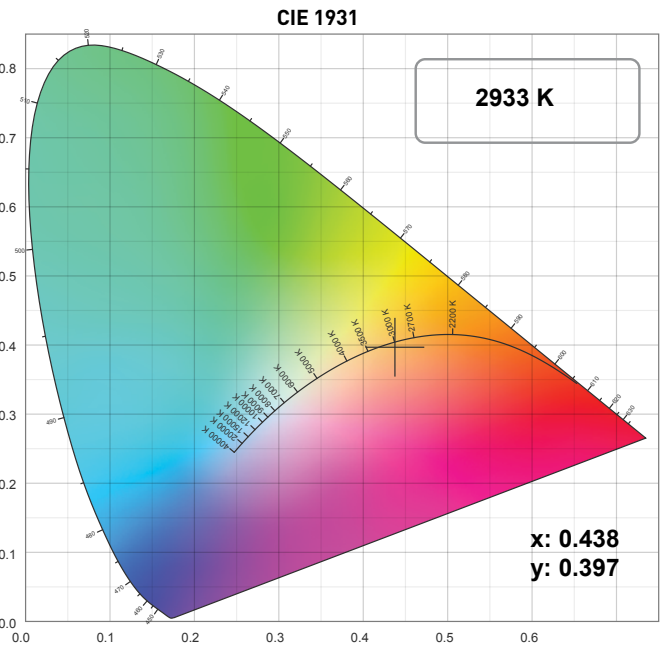


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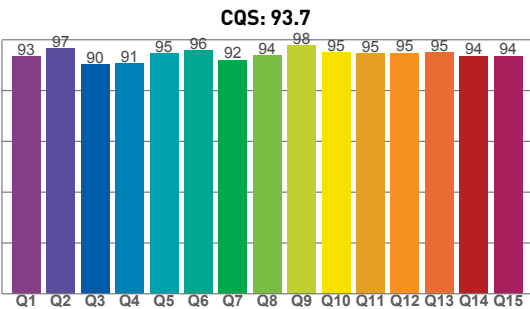
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CHROMATICITY



COLOR PARAMETERS

COLOR TEMPERATURE	COLOR RENDERING INDEX	RED COMPONENT	COLOR FIDELITY	COLOR GAMUT
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
2933 K	97.2	84.4	93.3	101.3



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
96	93.7	0.438	0.397	0.254	0.346	0.003

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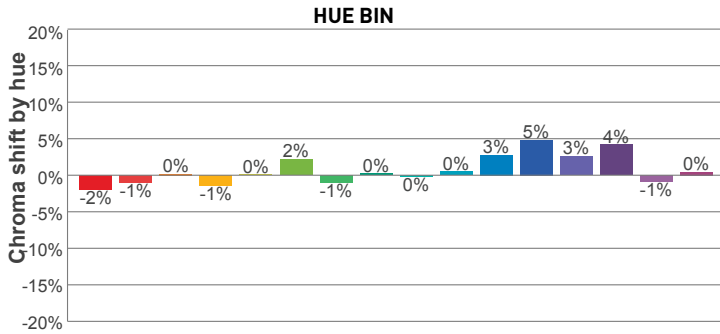
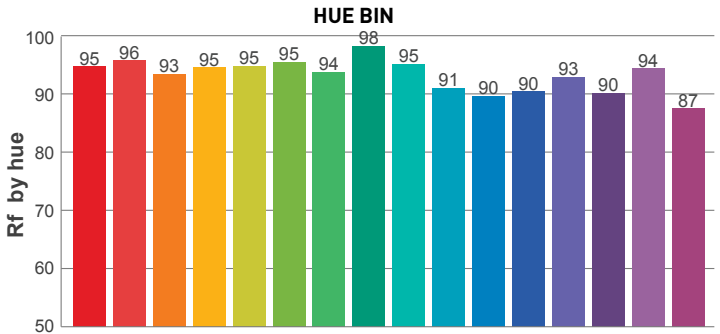
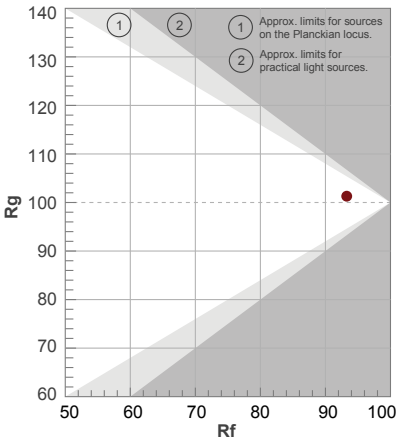
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TM30

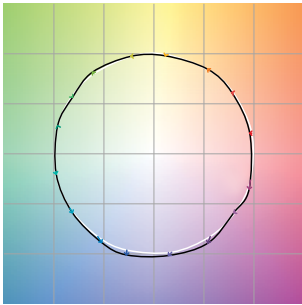
Rf 93.3
Fidelity index Rf

Rg 101.3
Gamut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	0%	3%
4	95	-1%	0%
5	95	0%	2%
6	95	2%	0%
7	94	-1%	0%
8	98	0%	0%
9	95	0%	3%
10	91	0%	5%
11	90	3%	6%
12	90	5%	1%
13	93	3%	-4%
14	90	4%	-6%
15	94	-1%	-2%
16	87	0%	-9%



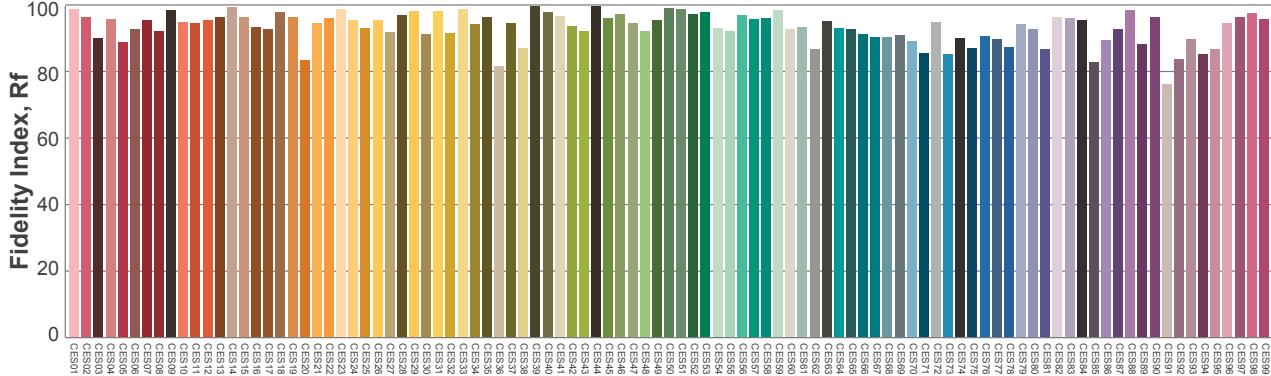
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE

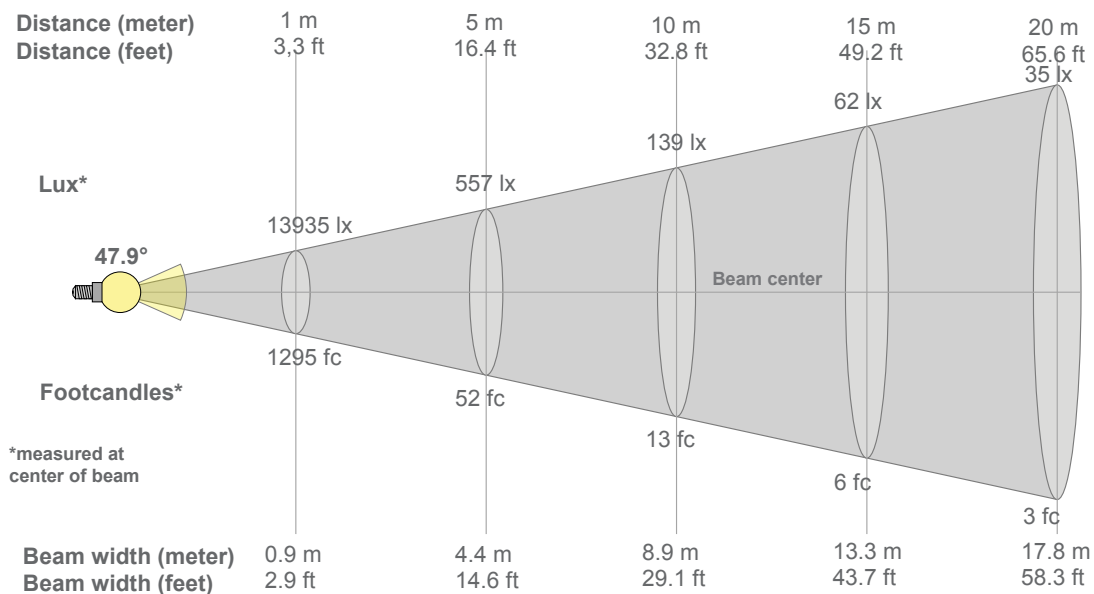


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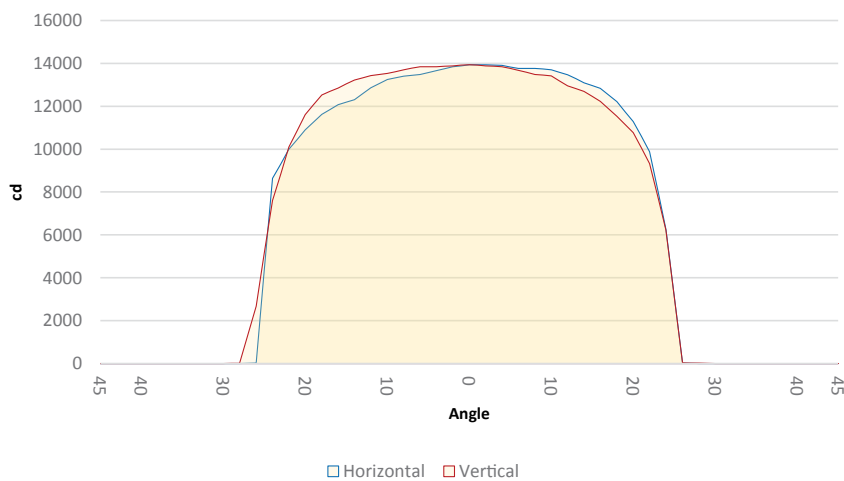
BEAM DETAILS



Beam width: $w = 0.9 \times \text{distance}$
Beam luminous intensity formula: $\text{lux} = 13935 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 13935 / (\text{distance}^2)$ (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
13935lx	3484lx	1548lx	871lx	557lx	387lx	284lx	218lx	172lx	139lx	115lx	97lx	82lx	71lx	62lx	54lx	48lx	43lx	39lx	35lx
1294.6fc	323.7fc	143.8fc	80.9fc	51.8fc	36fc	26.4fc	20.2fc	16fc	12.9fc	10.7fc	9fc	7.7fc	6.6fc	5.8fc	5.1fc	4.5fc	4fc	3.6fc	3.2fc



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