

Photometric Report

ELP-CL — 50 DEGREE (HIGH QUALITY MODE)

SPEC SHEET

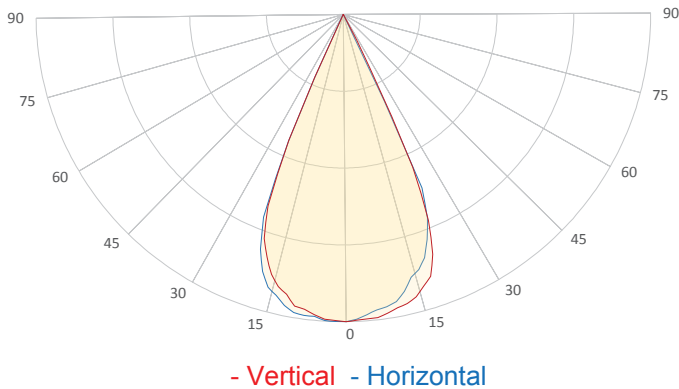
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



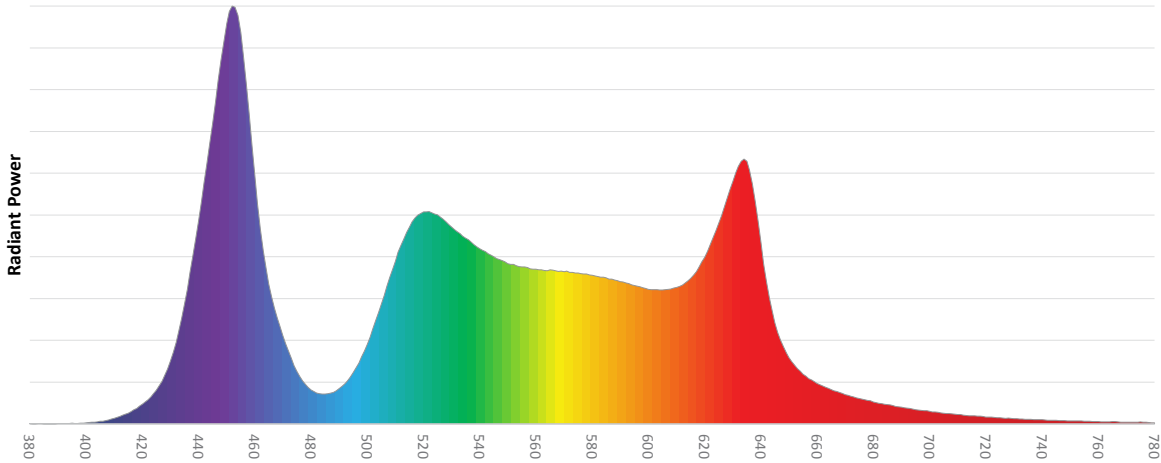
Total Fixture Output: 5600 lm
Light Engine Output: 20 klm
Efficacy: 31 Lumen/Watt
Lens Option: 50° Lens
Zoomrange: 50°
CRI: 90
CQS: N/A
TM-30 Rf: 84.5
TM-30 Rg: 106.3
TLCI: 87
Color Temperature: Variable

MEASUREMENT



Catalog Number: 9045107780
Measured Output: 6137 lm
Measured Peak: 12393 cd
Consumed Power: 190 W
Efficacy: 32.3 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

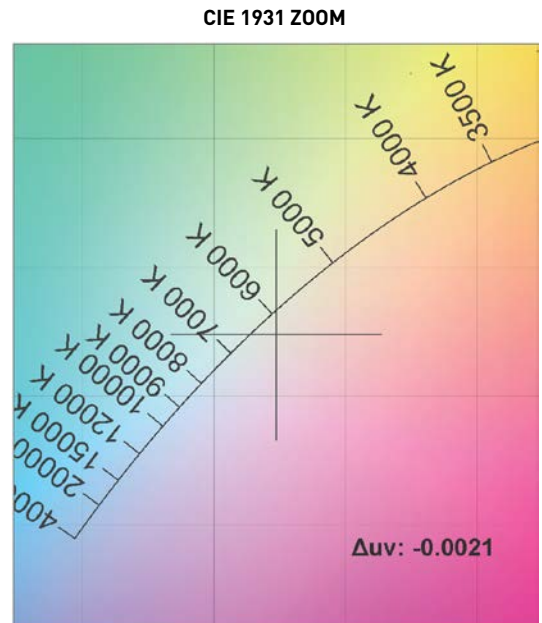
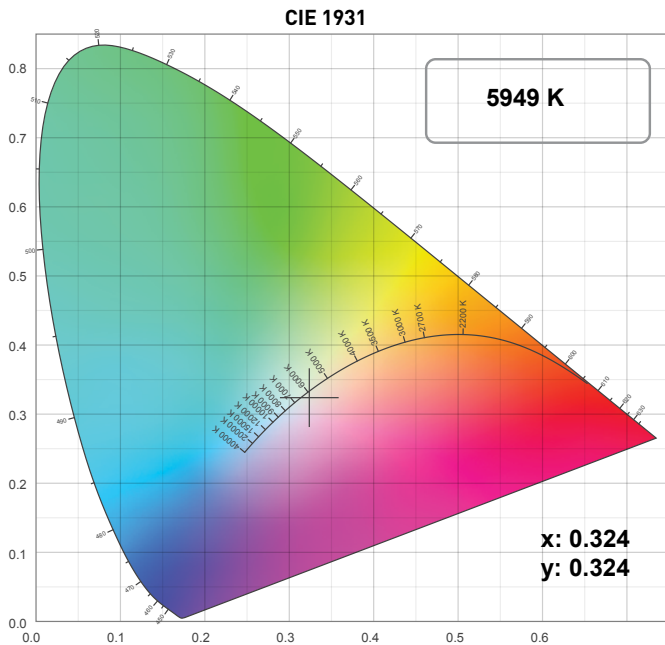


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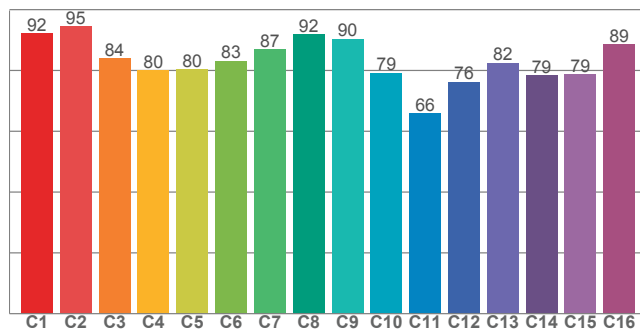
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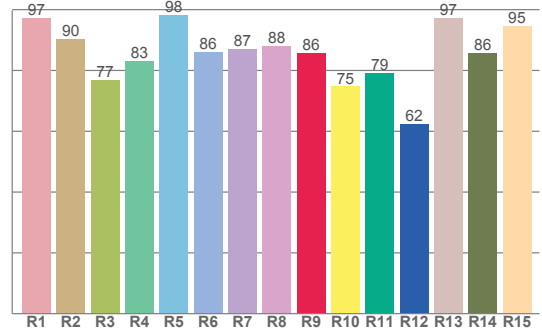
CHROMATICITY



TM30: 83.1



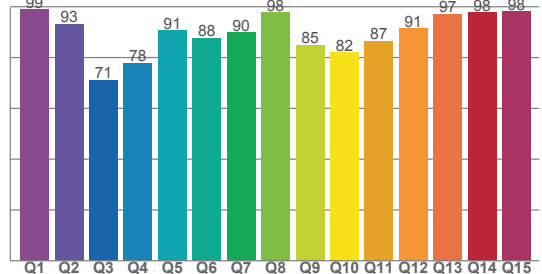
CRI: 88.4 (R1-R8)



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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TM30

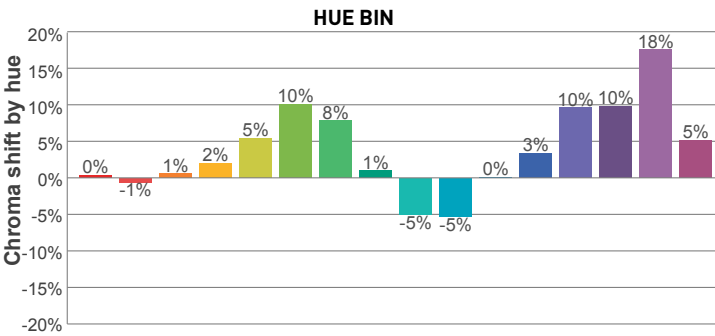
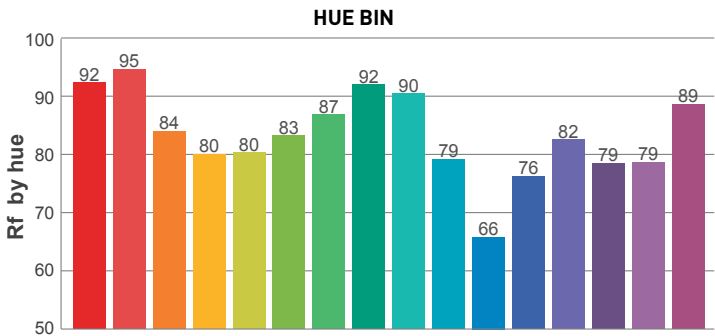
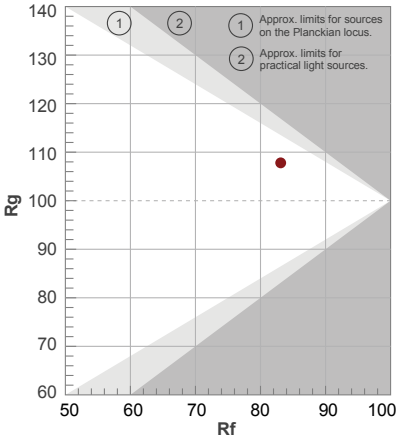
Rf 83.1

Fidelity index Rf

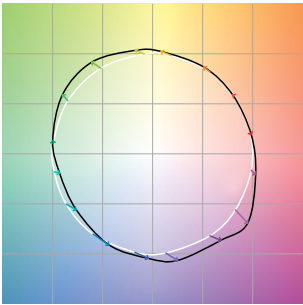
Rg 107.8

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%



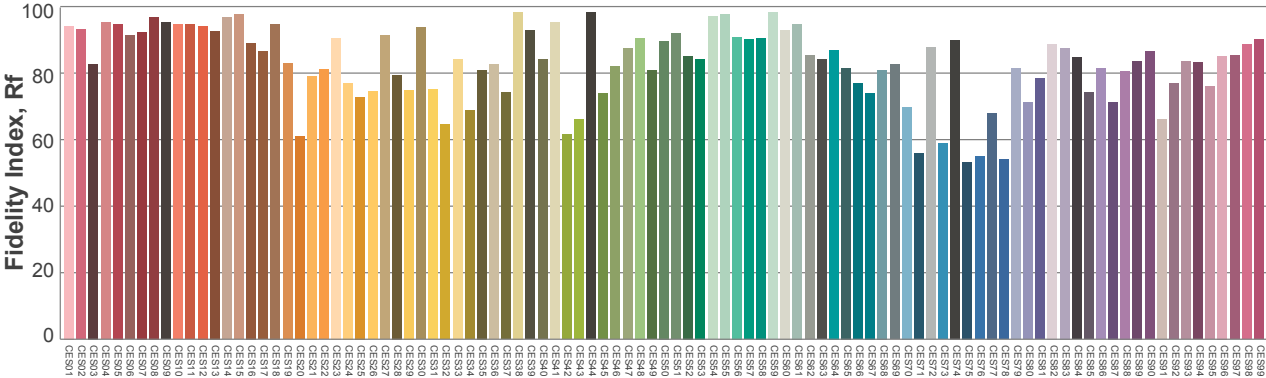
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE

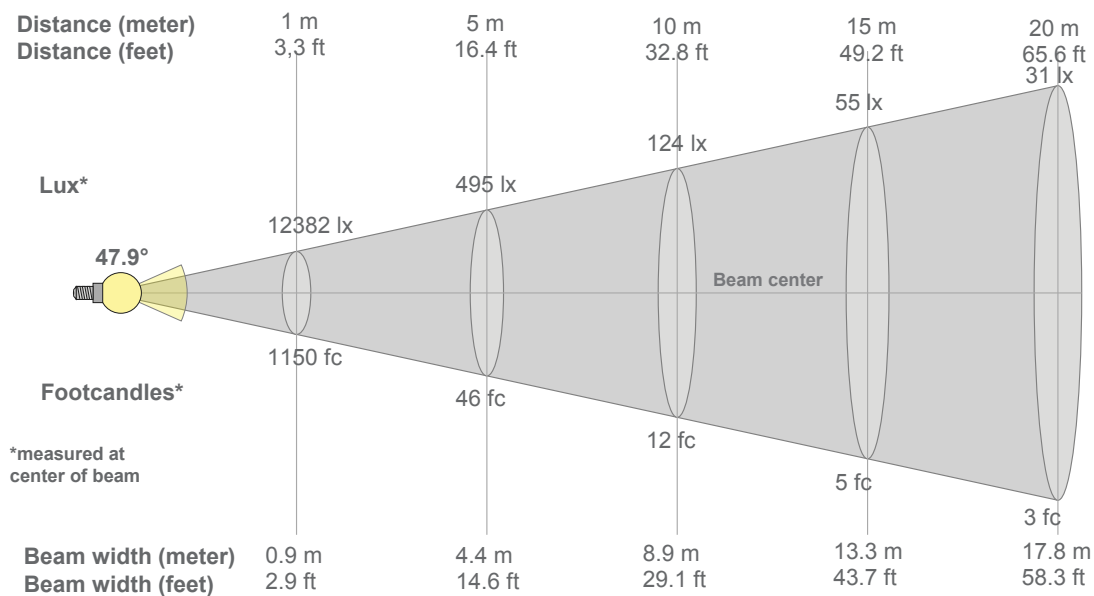


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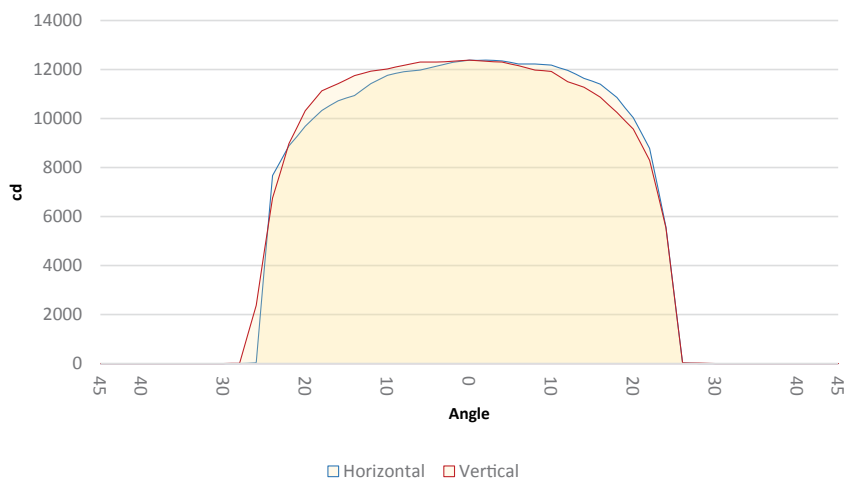
BEAM DETAILS



Beam width: $w = 0.9 \times \text{distance}$
Beam luminous intensity formula: $\text{lux} = 12382 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 12382 / (\text{distance}^2)$ (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
12382lx	3096lx	1376lx	774lx	495lx	344lx	253lx	193lx	153lx	124lx	102lx	86lx	73lx	63lx	55lx	48lx	43lx	38lx	34lx	31lx
1150.3fc	287.6fc	127.8fc	71.9fc	46fc	32fc	23.5fc	18fc	14.2fc	11.5fc	9.5fc	8fc	6.8fc	5.9fc	5.1fc	4.5fc	4fc	3.6fc	3.2fc	2.9fc



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