

Photometric Report

ELP-CL — 19 DEGREE (HIGH OUTPUT MODE)

SPEC SHEET

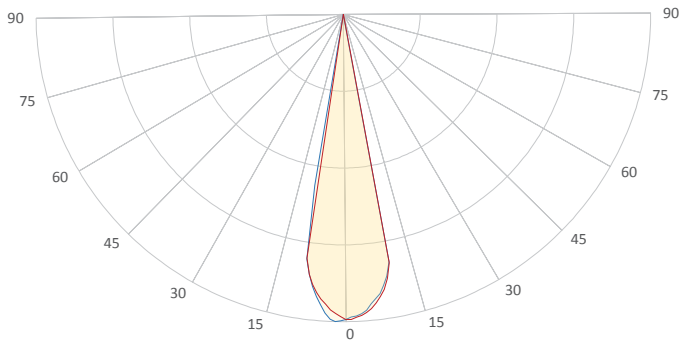
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



Total Fixture Output: 6900 lm
Light Engine Output: 20 klm
Efficacy: 28 Lumen/Watt
Lens Option: 19° Lens
Zoomrange: 19°
CRI: 85
CQS: N/A
TM-30 Rf: 84.6
TM-30 Rg: 111.6
TLCI: 85
Color Temperature: Variable

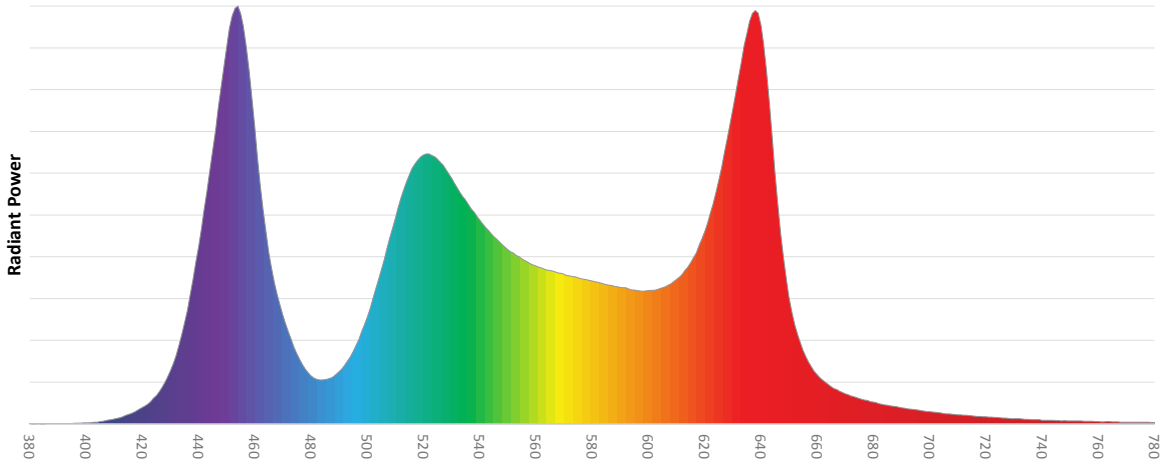
MEASUREMENT



- Vertical - Horizontal

Catalog Number: 9045107780
Measured Output: 6924 lm
Measured Peak: 78988 cd
Consumed Power: 250 W
Efficacy: 27.7 Lumen/Watt
Beam Angle (50%): 20.1°
Field Angle (10%): 21.2°
Cutoff Angle (3%): 21.4°
Measurement Condition:
Ambient Temperature: 25 +/- 5C
AC Supply: 230V/50Hz

SPECTRAL DISTRIBUTION

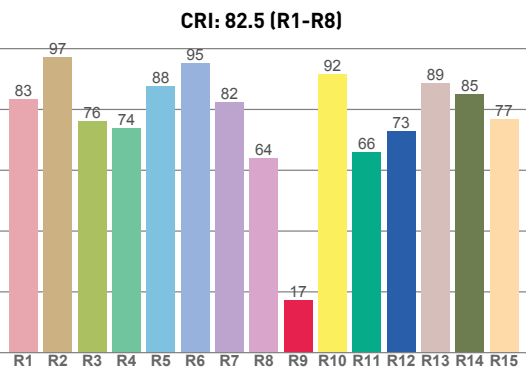
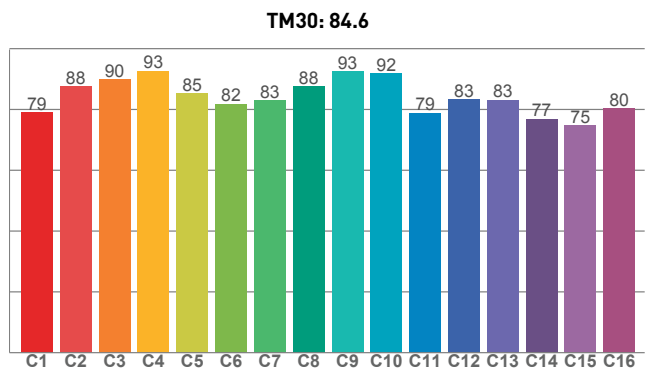
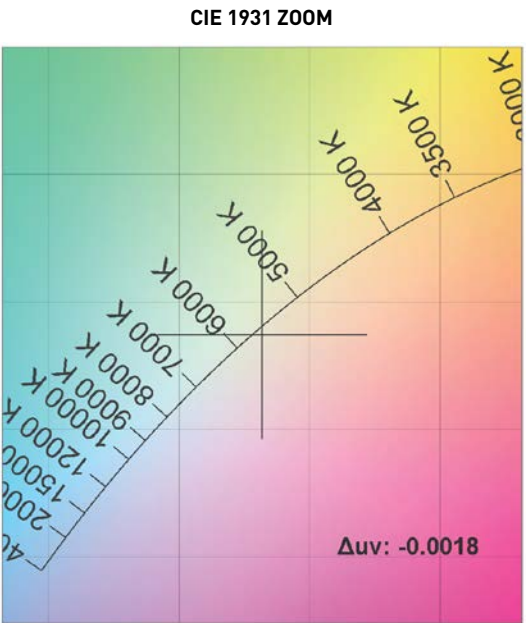
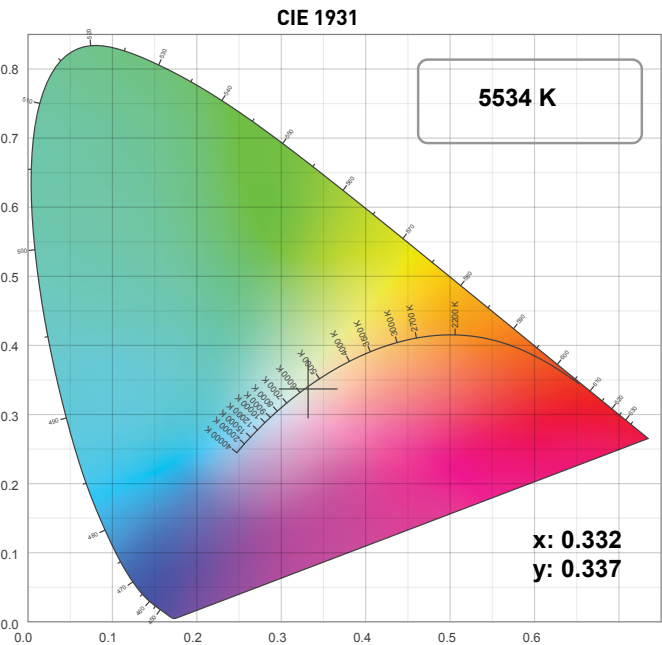


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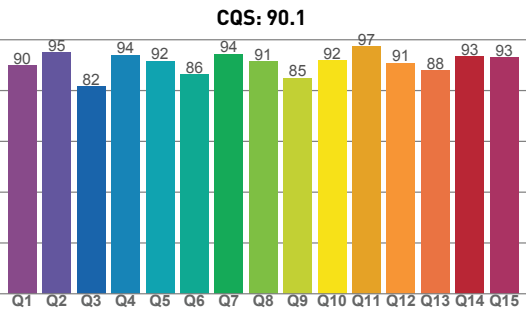
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CHROMATICITY



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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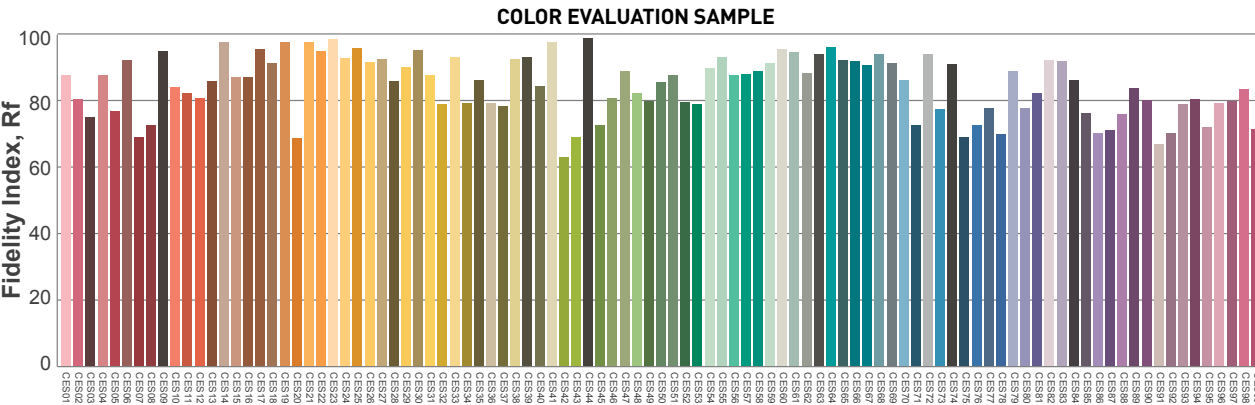
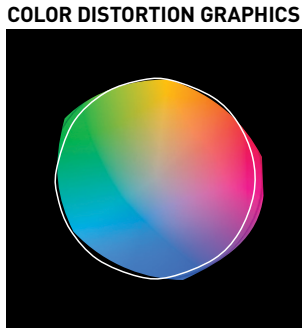
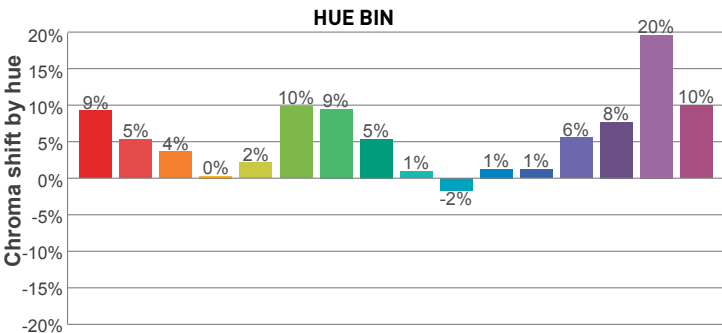
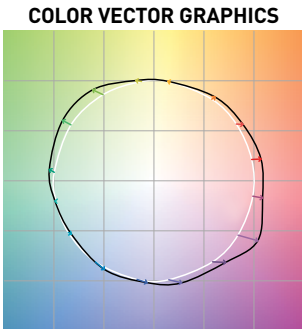
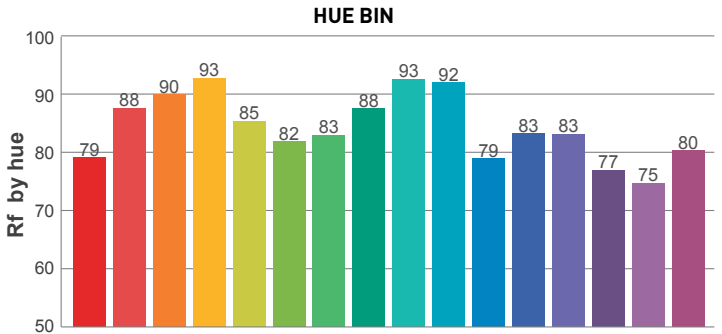
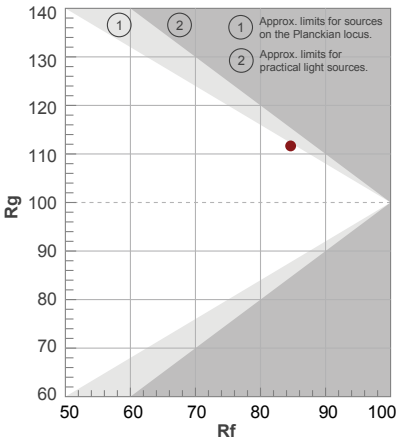
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TM30

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%

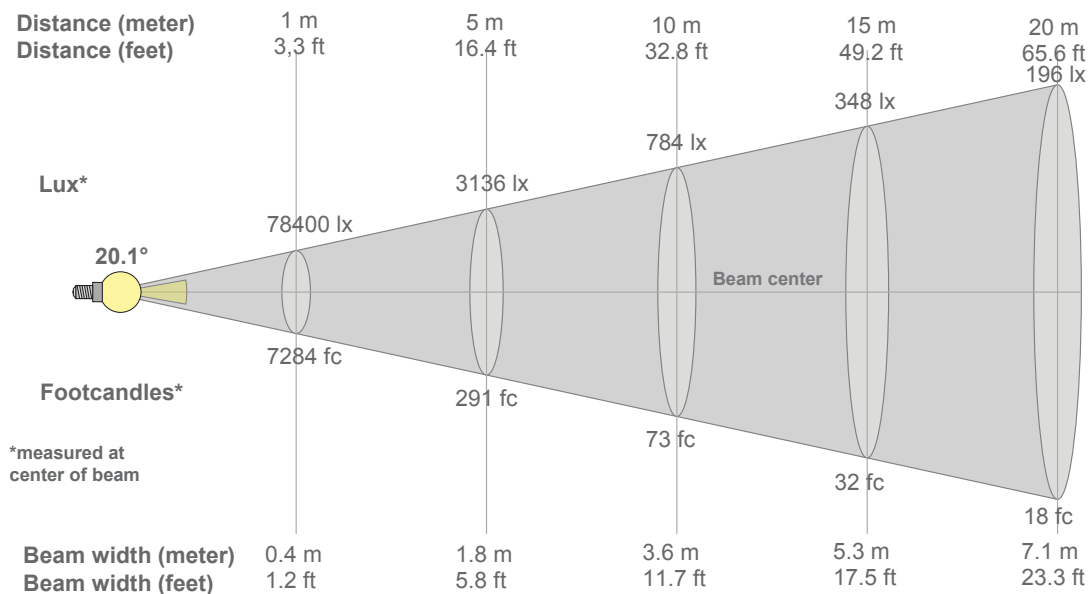


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BEAM DETAILS

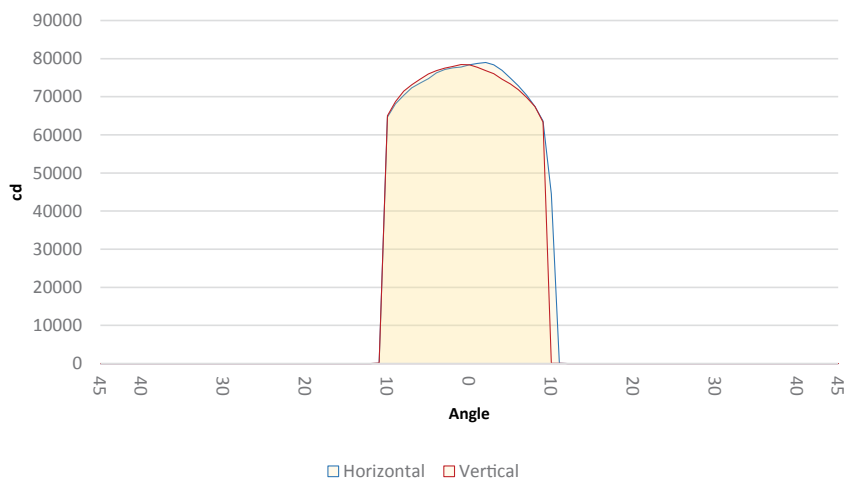


Beam width:
Beam luminous intensity formula:

$w = 0.4 \times \text{distance}$
 $\text{lux} = 78400 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 78400 / (\text{distance}^2)$ (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
78400lx	19600lx	8711lx	4900lx	3136lx	2178lx	1600lx	1225lx	968lx	784lx	648lx	544lx	464lx	400lx	348lx	306lx	271lx	242lx	217lx	196lx
7283.6fc	1820.9fc	809.3fc	455.2fc	291.3fc	202.3fc	148.6fc	113.8fc	89.9fc	72.8fc	60.2fc	50.6fc	43.1fc	37.2fc	32.4fc	28.5fc	25.2fc	22.5fc	20.2fc	18.2fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
20.1°	21.2°	21.4°