

Photometric Report

ELP-CL — 19 DEGREE (HIGH QUALITY MODE)

SPEC SHEET

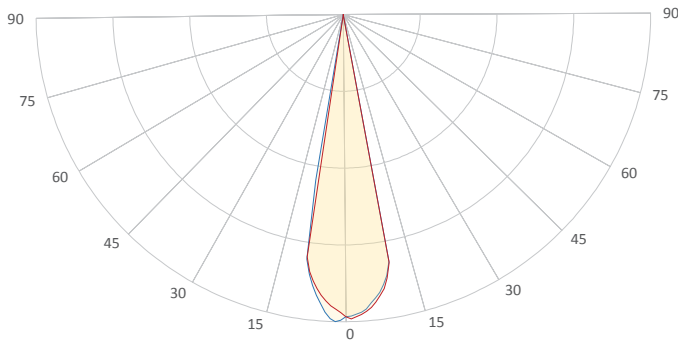
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



Total Fixture Output: 5600 lm
Light Engine Output: 20 klm
Efficacy: 31 Lumen/Watt
Lens Option: 19° Lens
Zoomrange: 19°
CRI: 90
CQS: N/A
TM-30 Rf: 84.5
TM-30 Rg: 106.3
TLCI: 87
Color Temperature: Variable

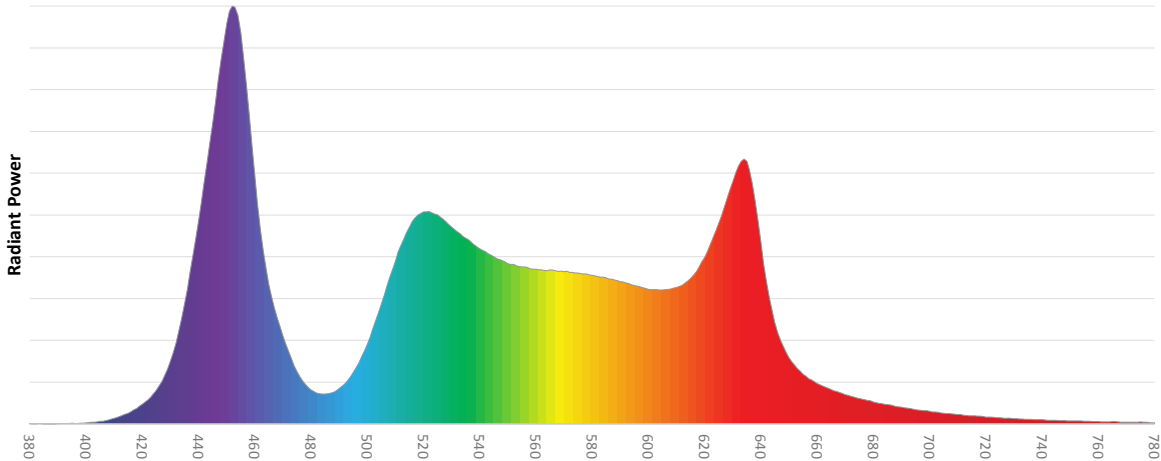
MEASUREMENT



- Vertical - Horizontal

Catalog Number: 9045107780
Measured Output: 5847 lm
Measured Peak: 66689 cd
Consumed Power: 190 W
Efficacy: 30.8 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

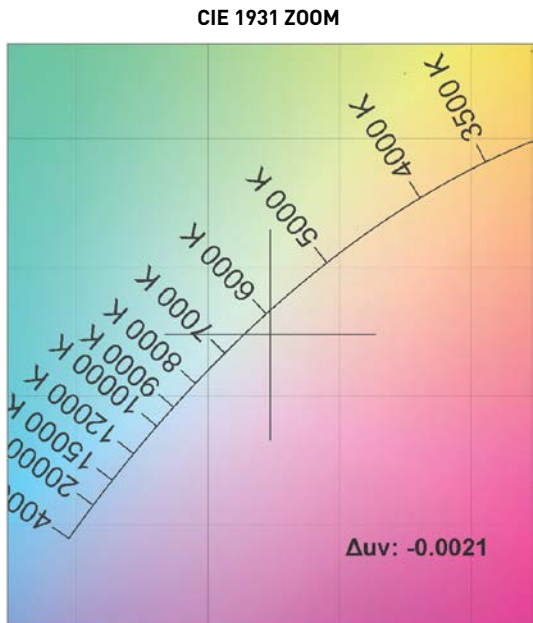
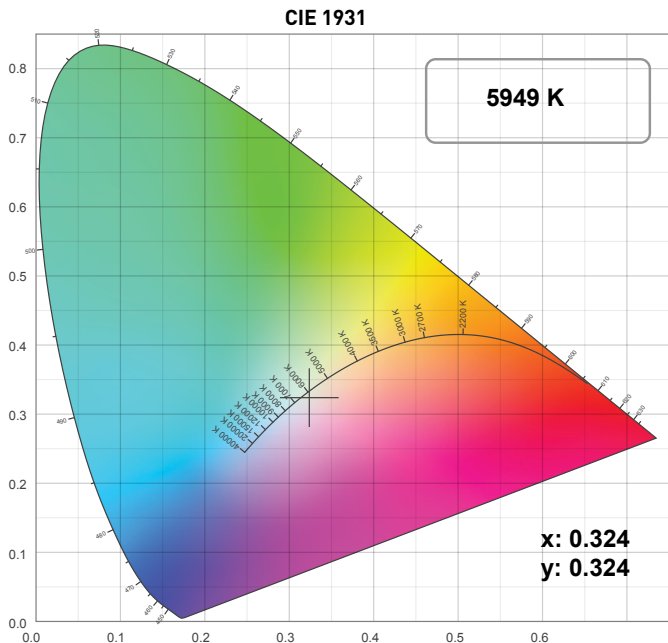


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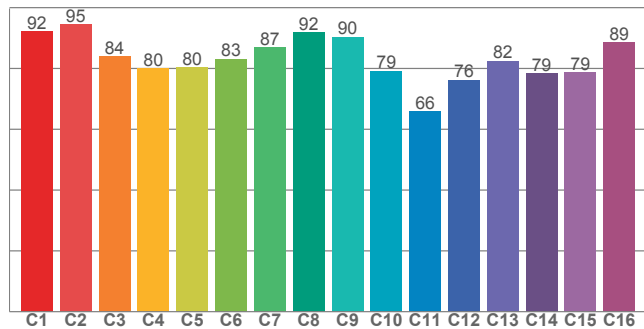
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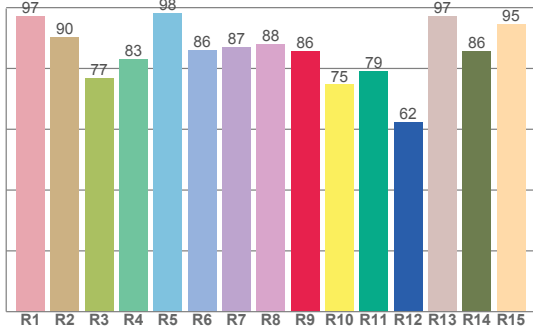
CHROMATICITY



TM30: 83.1



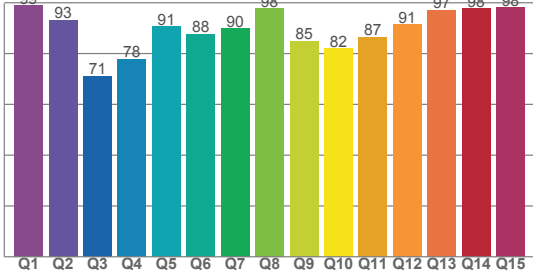
CRI: 88.4 (R1-R8)



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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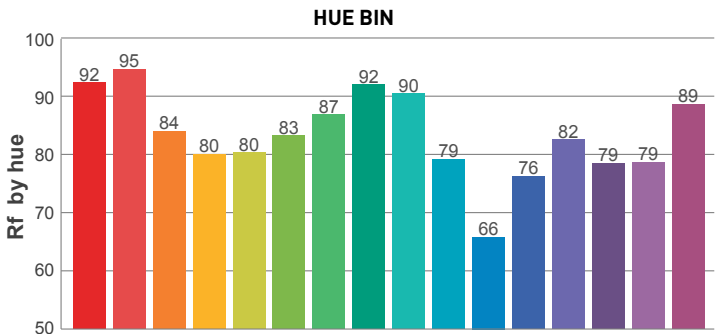
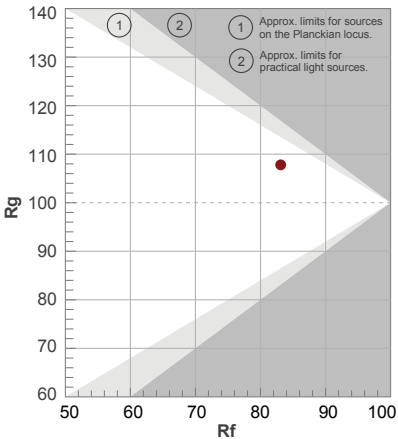
SPEC SHEET

TM30

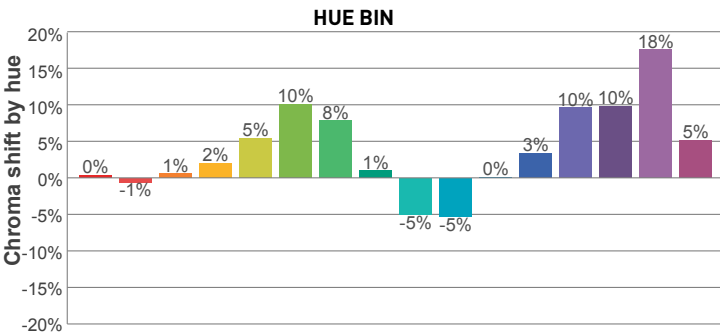
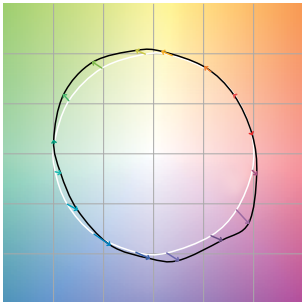
Rf 83.1
Fidelity index Rf

Rg 107.8
Gamut index Rg

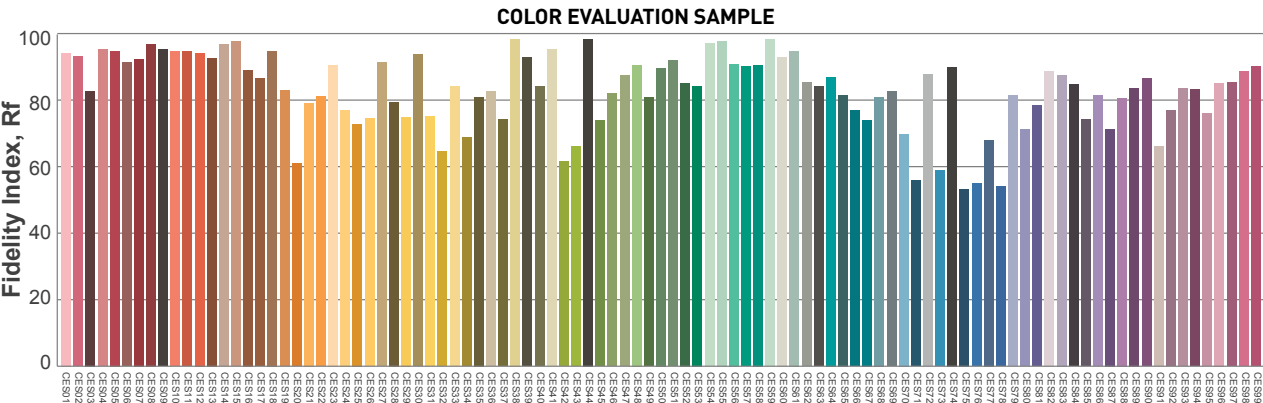
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	0%	-2%
2	95	-1%	1%
3	84	1%	8%
4	80	2%	11%
5	80	5%	8%
6	83	10%	4%
7	87	8%	-2%
8	92	1%	-3%
9	90	-5%	2%
10	79	-5%	10%
11	66	0%	19%
12	76	3%	14%
13	82	10%	10%
14	79	10%	6%
15	79	18%	-4%
16	89	5%	-3%



COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS

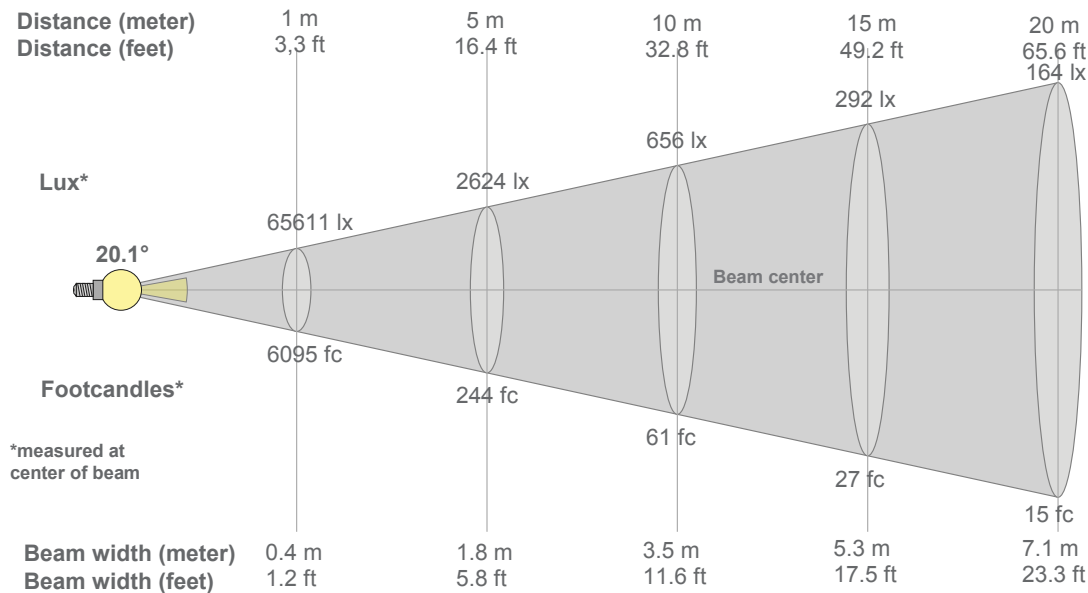


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BEAM DETAILS

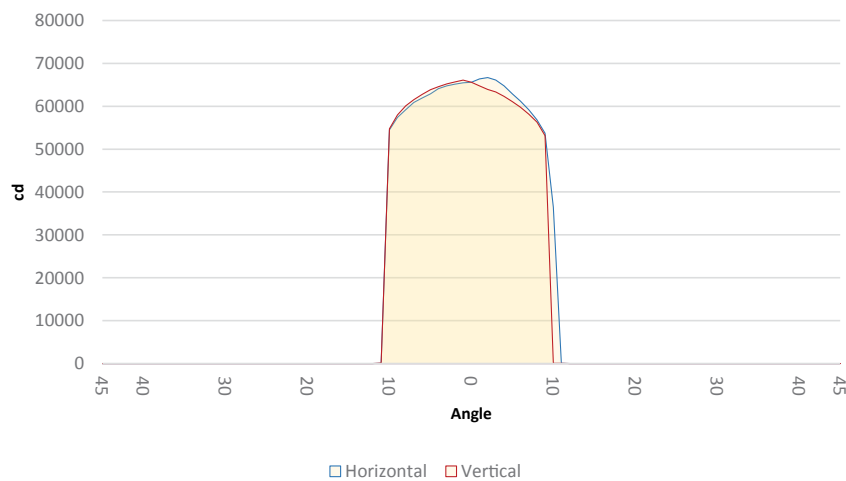


Beam width:
Beam luminous intensity formula:

$w = 0.4 * \text{distance}$
 $\text{lux} = 65611 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 65611 / (\text{distance}^2)$ (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
65611lx	16403lx	7290lx	4101lx	2624lx	1823lx	1339lx	1025lx	810lx	656lx	542lx	456lx	388lx	335lx	292lx	256lx	227lx	203lx	182lx	164lx
6095.5fc	1523.9fc	677.3fc	381fc	243.8fc	169.3fc	124.4fc	95.2fc	75.3fc	61fc	50.4fc	42.3fc	36.1fc	31.1fc	27.1fc	23.8fc	21.1fc	18.8fc	16.9fc	15.2fc



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