

Photometric Report

ELP-WW — 19 DEGREE

SPEC SHEET

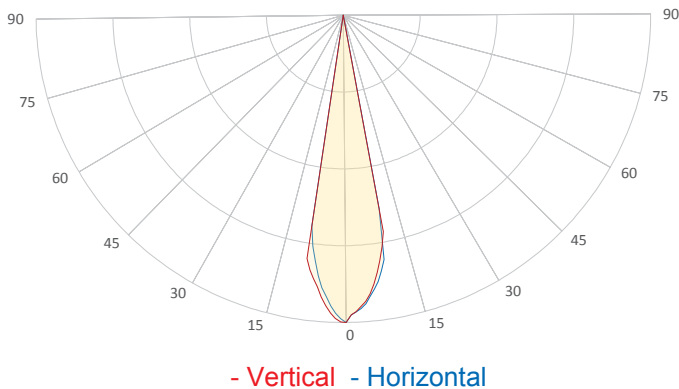
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



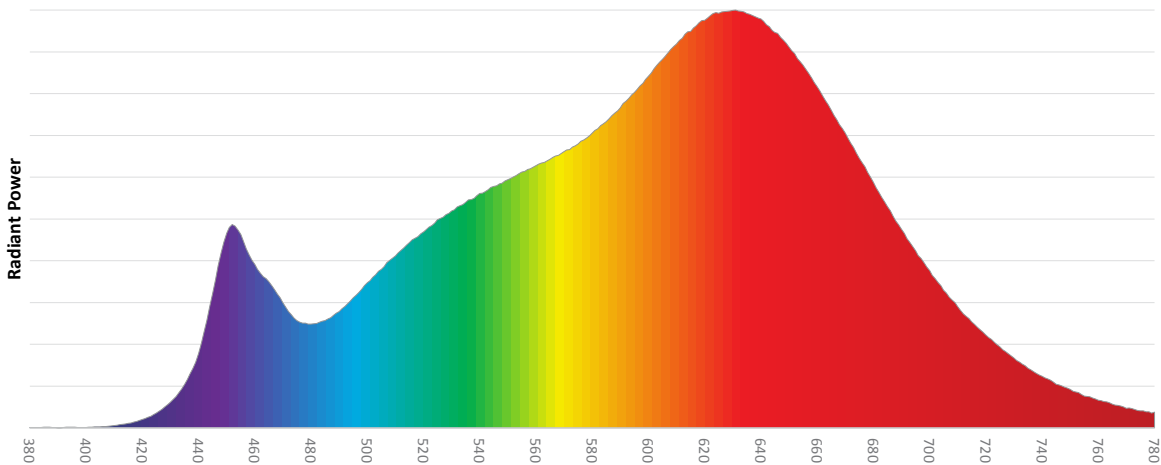
Total Fixture Output: 7000 lm
Light Engine Output: 16 klm
Efficacy: 28 Lumen/Watt
Lens Option: 19° Lens
Zoomrange: 19°
CRI: 97
CQS: N/A
TM-30 Rf: 93.3
TM-30 Rg: 101.3
TLCI: 96
Color Temperature: 3000 K

MEASUREMENT



Catalog Number: 9045107781
Measured Output: 6798 lm
Measured Peak: 84231 cd
Consumed Power: 240 W
Efficacy: 28.3 Lumen/Watt
Beam Angle (50%): 19.6°
Field Angle (10%): 20.7°
Cutoff Angle (3%): 21°
Measurement Condition:
Ambient Temperature: 25 +/- 5C
AC Supply: 230V/50Hz

SPECTRAL DISTRIBUTION

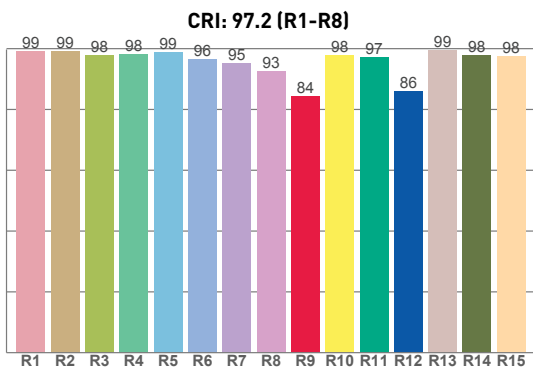
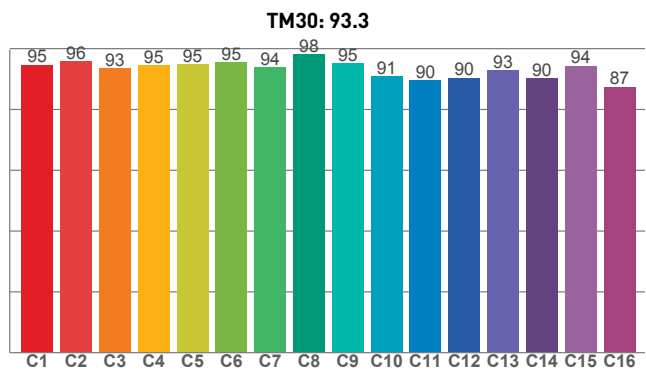
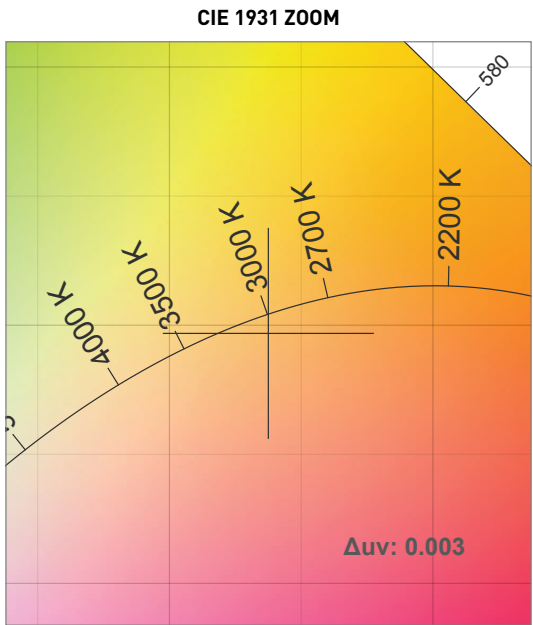
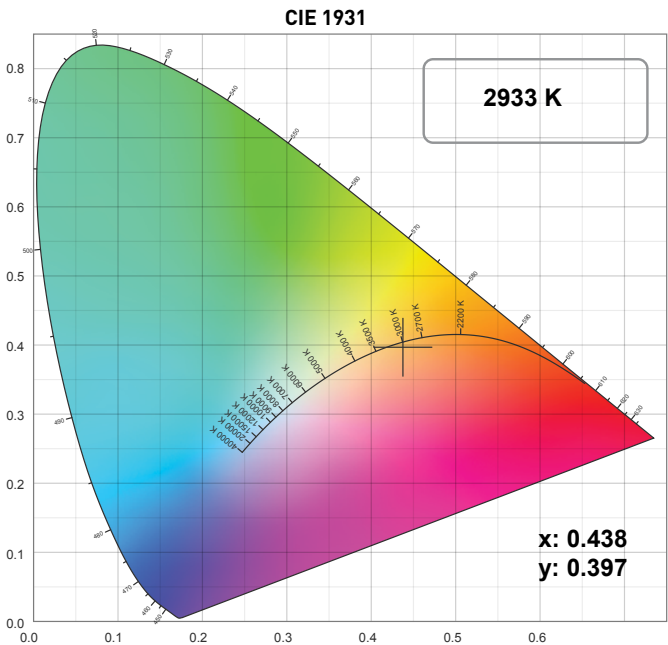


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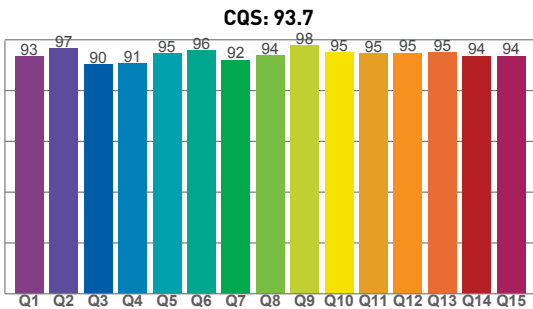
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CHROMATICITY



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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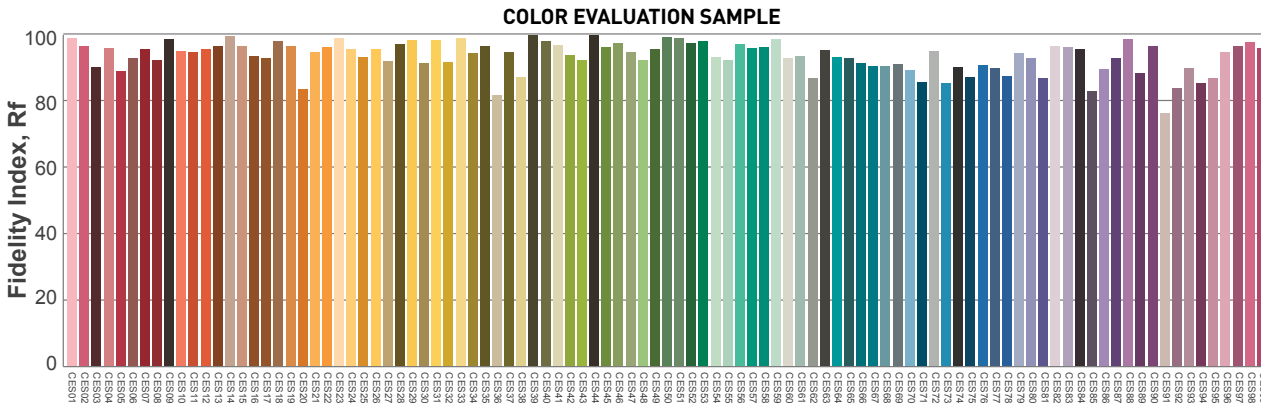
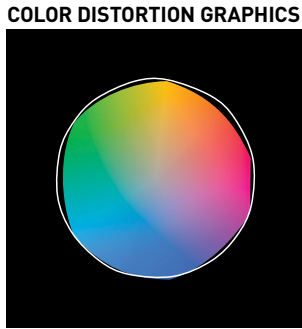
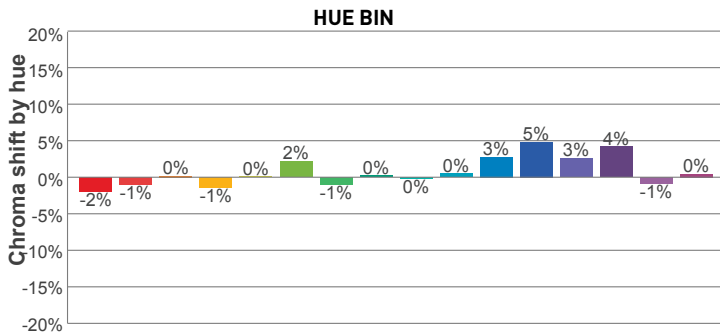
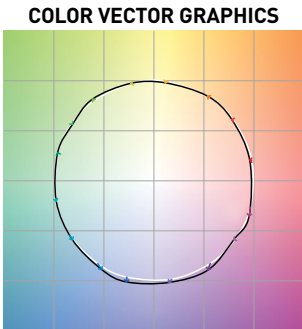
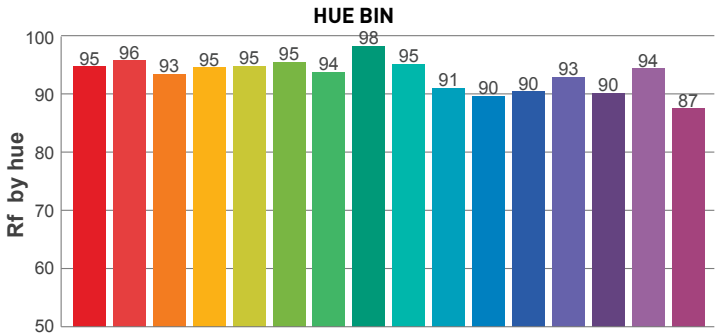
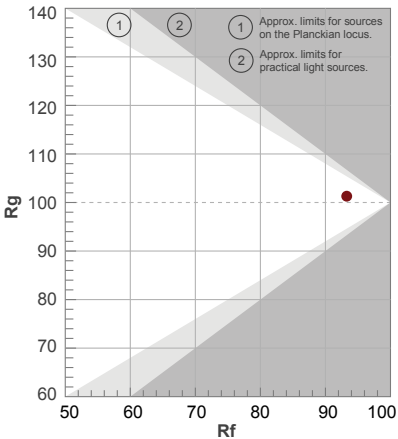
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TM30

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%

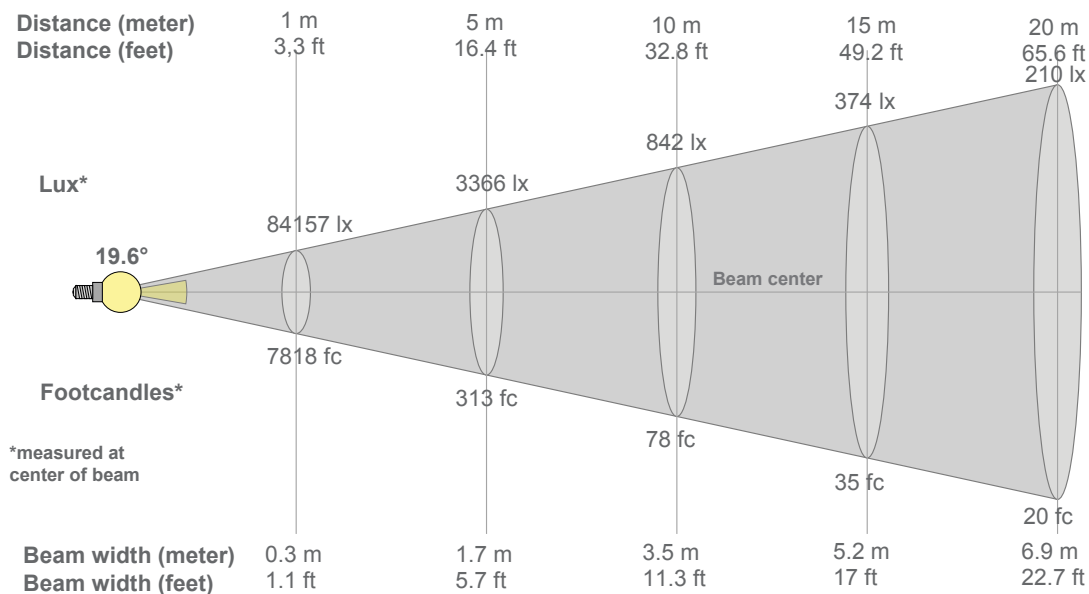


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BEAM DETAILS

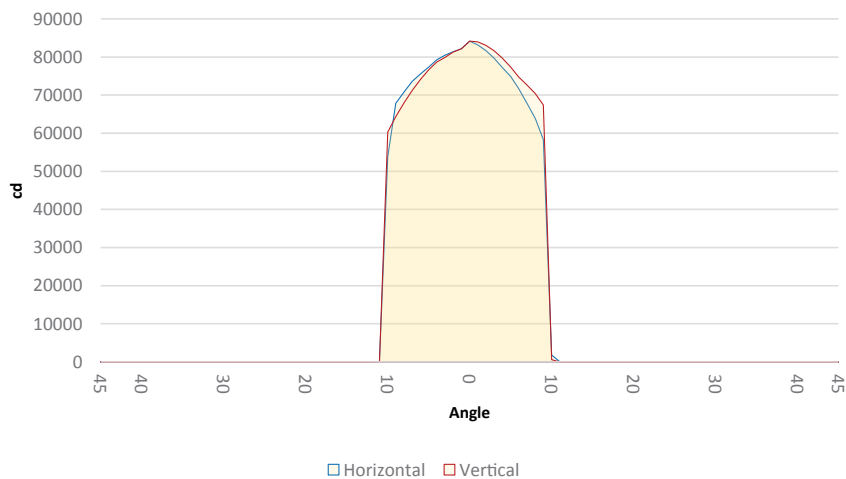


Beam width:
Beam luminous intensity formula:

$w = 0.3 * \text{distance}$
 $\text{lux} = 84157 / (\text{distance}^2)$ (where distance is in meters)
 $\text{fc} = 84157 / (\text{distance}^2)$ (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
84157lx	21039lx	9351lx	5260lx	3366lx	2338lx	1717lx	1315lx	1039lx	842lx	696lx	584lx	498lx	429lx	374lx	329lx	291lx	260lx	233lx	210lx
7818.5fc	1954.6fc	868.7fc	488.7fc	312.7fc	217.2fc	159.6fc	122.2fc	96.5fc	78.2fc	64.6fc	54.3fc	46.3fc	39.9fc	34.7fc	30.5fc	27.1fc	24.1fc	21.7fc	19.5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
19.6°	20.7°	21°