

Photometric Report

MAC Ultra Performance – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

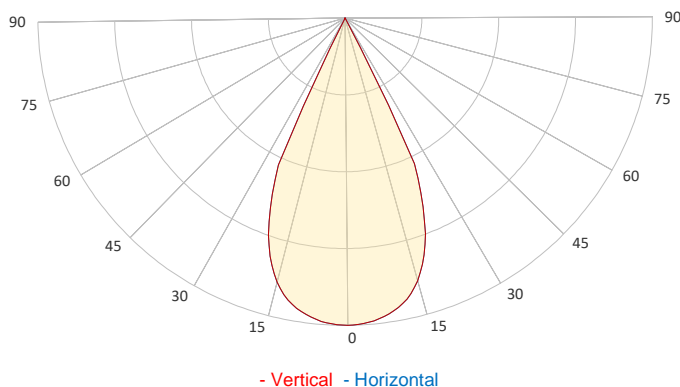
GENERAL SPECIFICATIONS

Total Fixture Output:	46500 lm
Light Engine Output:	90000 lm
Efficacy:	32 lm/W
Lens Option:	N/A
Beam Angle (50%):	6,6-50,2°
Field Angle (10%):	8,0-54,1°
Cut-off Angle (3%):	8,6-54,8°
CRI:	66 (+/-3)
CQS:	66
TM-30 Rf:	66
TM-30 Rg:	95
TLCI:	40
Color Temperature:	5800 K (+/-250 K)



SAMPLE MEASUREMENT

POLAR PLOT

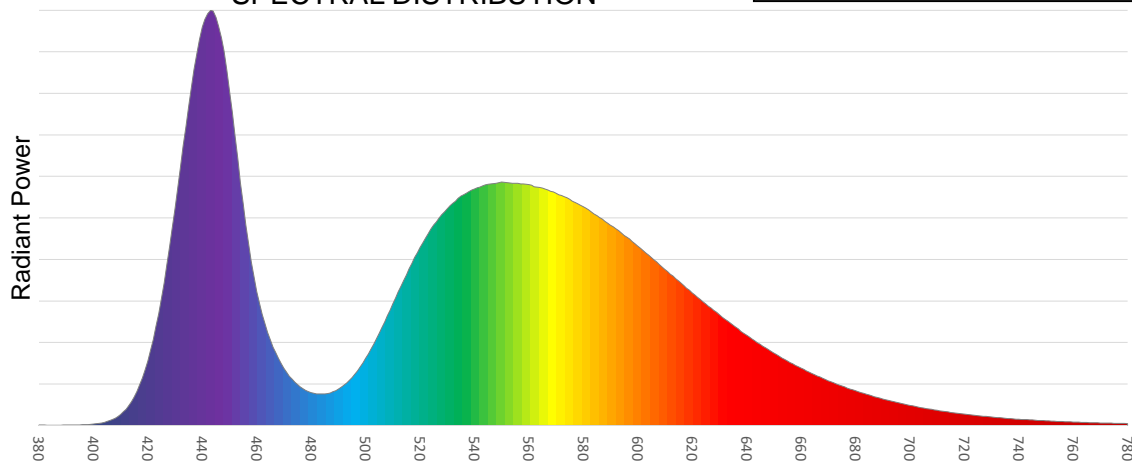


Catalog Number:	90250085HU
Measured Output:	48441 lm
Measured Peak:	95838 cd
Consumed Power:	1402 W
Efficacy:	34.6 lm/W

Beam Angle (50%):	50.2°
Field Angle (10%):	54.1°
Cut-off Angle (3%):	54.8°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz
Fan Mode:	Constant Full Fan
Fixture Warm-up Time:	30 minutes

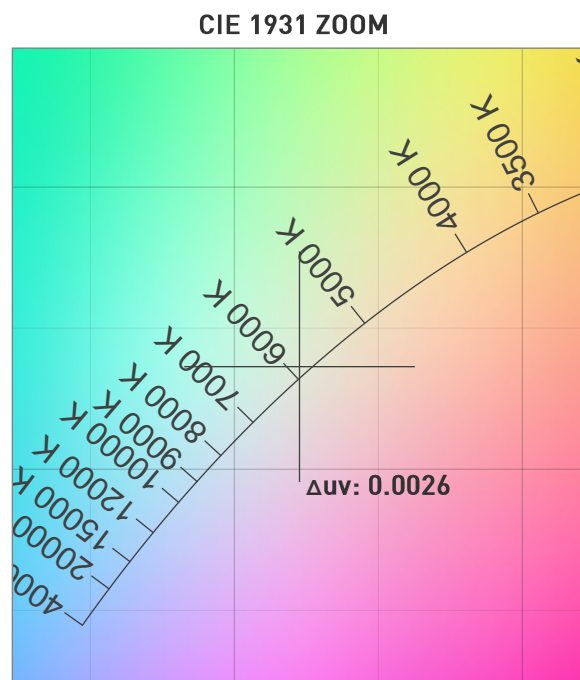
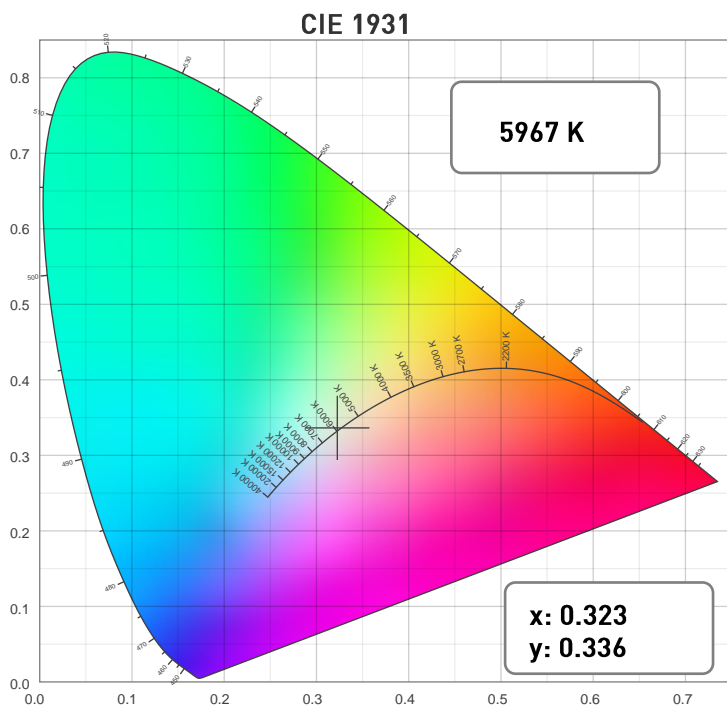
SPECTRAL DISTRIBUTION



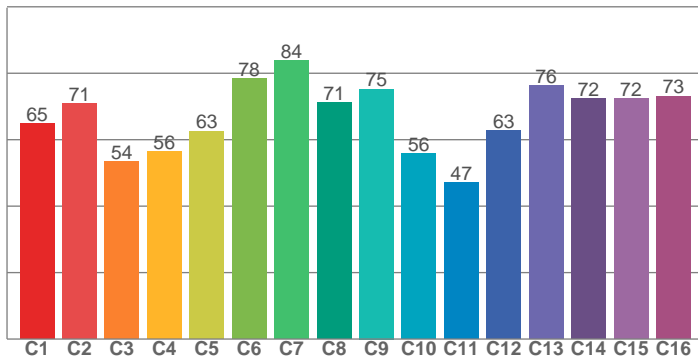
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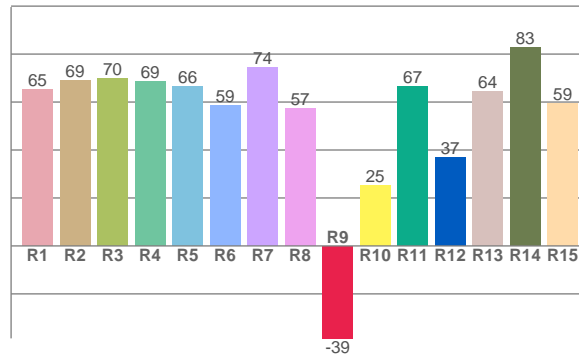
CHROMATICITY



TM30: 66.4



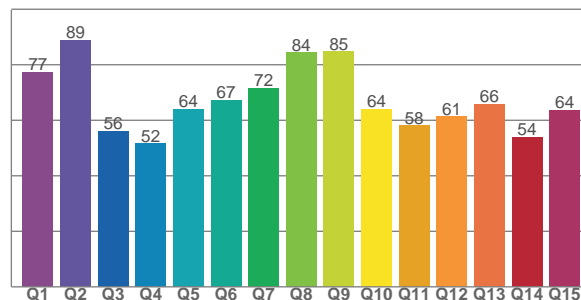
CRI: 66.2 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5967 K	66.2	-38.6	66.4	94.5

CQS: 65.6



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
40	65.6	0.323	0.336	0.202	0.316	0.0026

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TM30

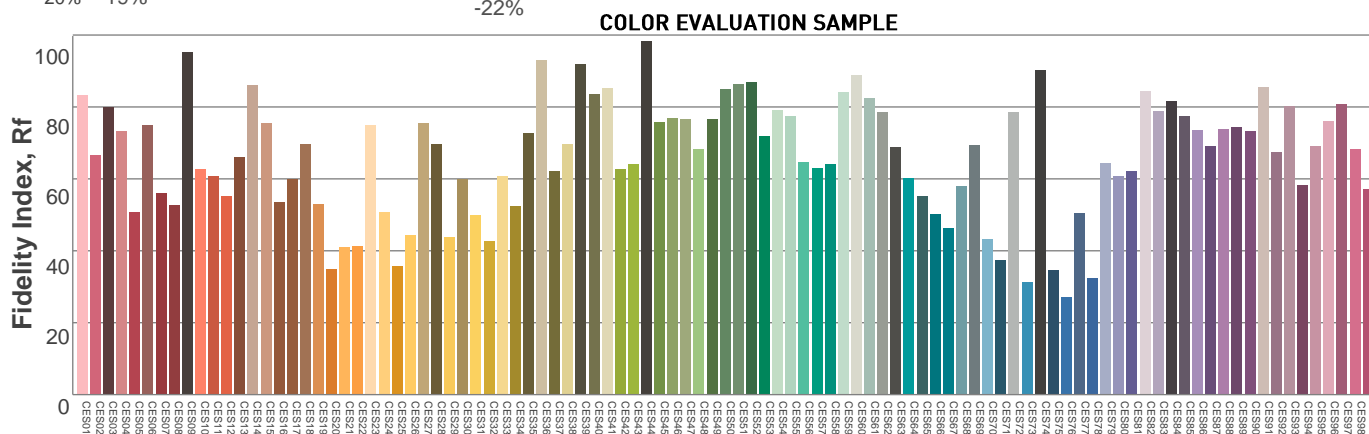
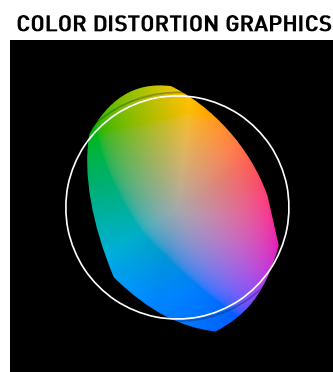
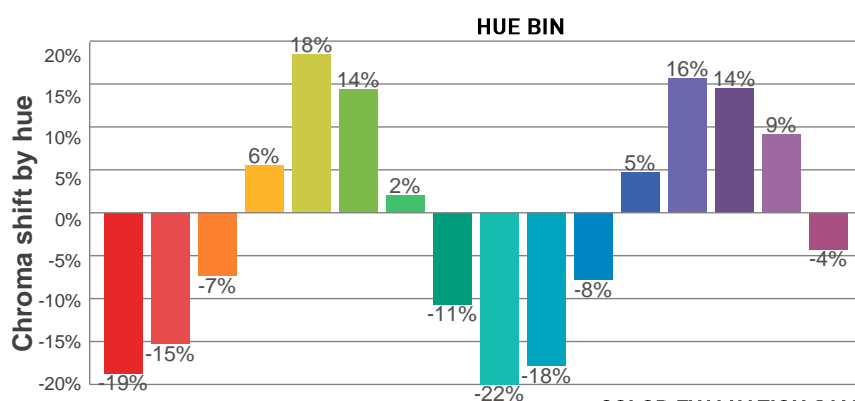
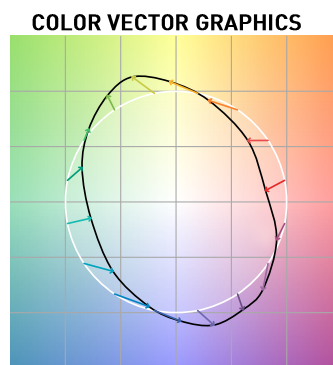
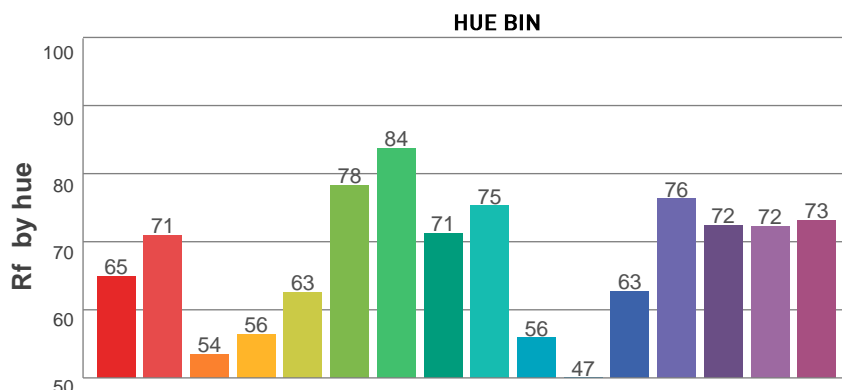
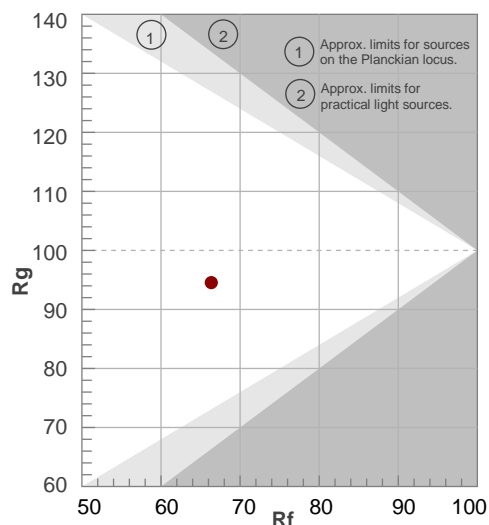
Rf 66.4

Fidelity index Rf

Rg 94.5

Gamut index Rg

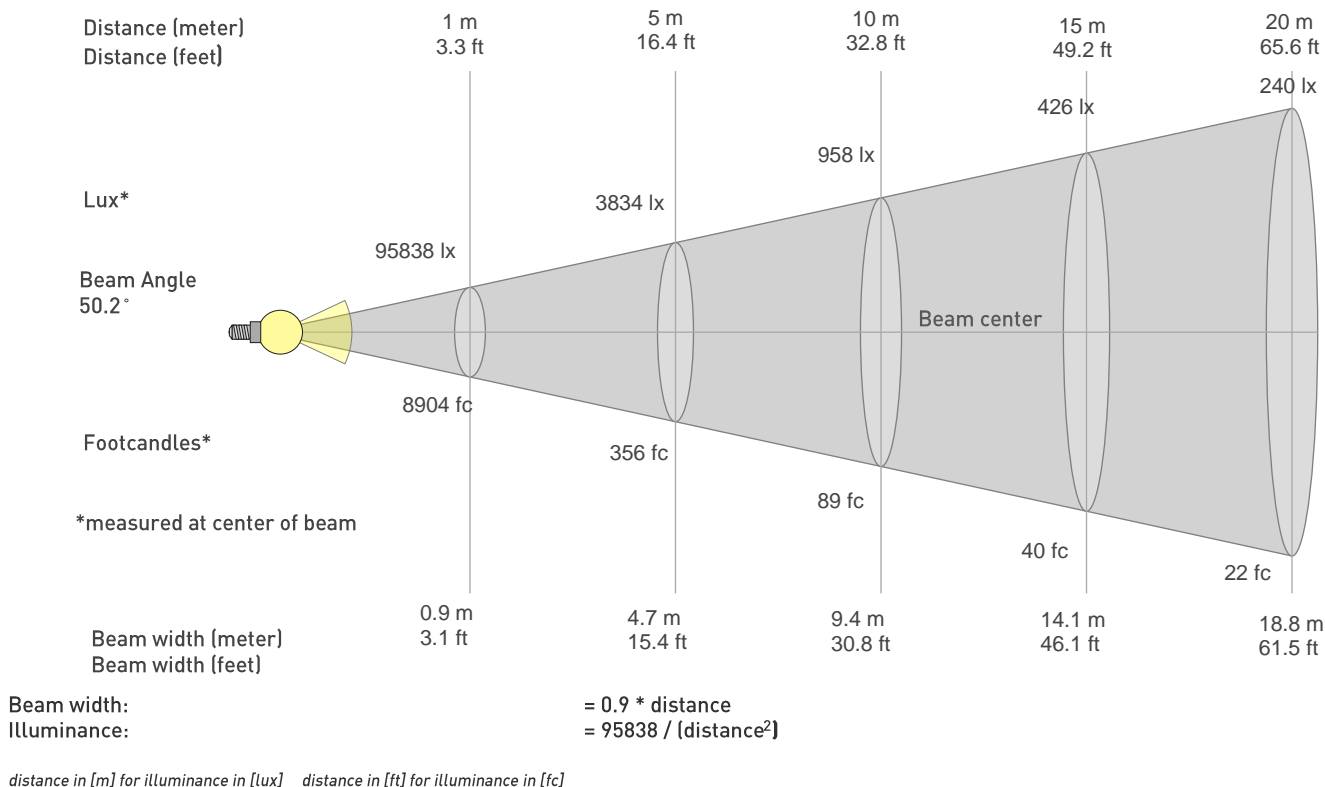
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	65	-19%	-6%
2	71	-15%	10%
3	54	-7%	26%
4	56	6%	27%
5	63	18%	17%
6	78	14%	-2%
7	84	2%	-11%
8	71	-11%	-14%
9	75	-22%	-1%
10	56	-18%	20%
11	47	-8%	32%
12	63	5%	25%
13	76	16%	12%
14	72	14%	-4%
15	72	9%	-22%
16	73	-4%	-16%



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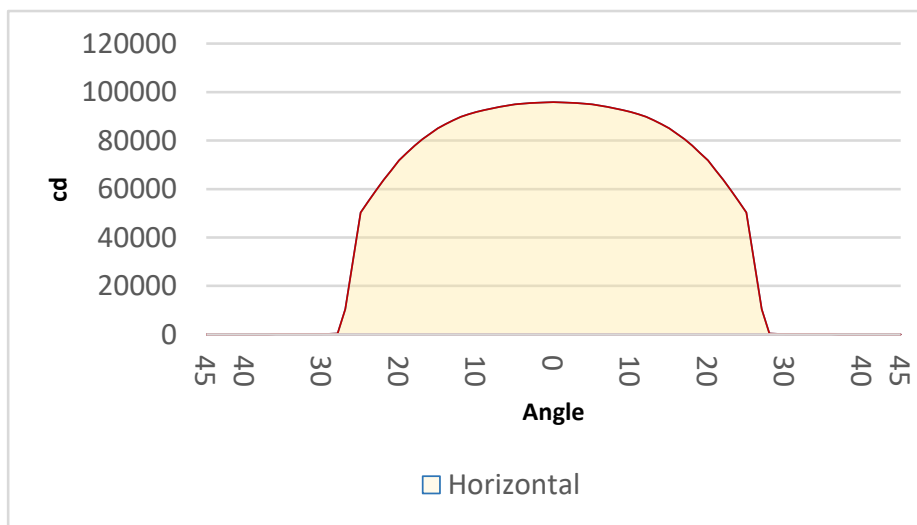
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BEAM DETAILS



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
95838lx	23960lx	10649lx	5990lx	3834lx	2662lx	1956lx	1497lx	1183lx	958lx	792lx	666lx	567lx	489lx	426lx	374lx	332lx	296lx	265lx	240lx
8903.7fc	2225.9fc	989.3fc	556.5fc	356.1fc	247.3fc	181.7fc	139.1fc	109.9fc	89fc	73.6fc	61.8fc	52.7fc	45.4fc	39.6fc	34.8fc	30.8fc	27.5fc	24.7fc	22.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
50.2°	54.1°	54.8°