

Photometric Report

MAC Ultra Performance – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

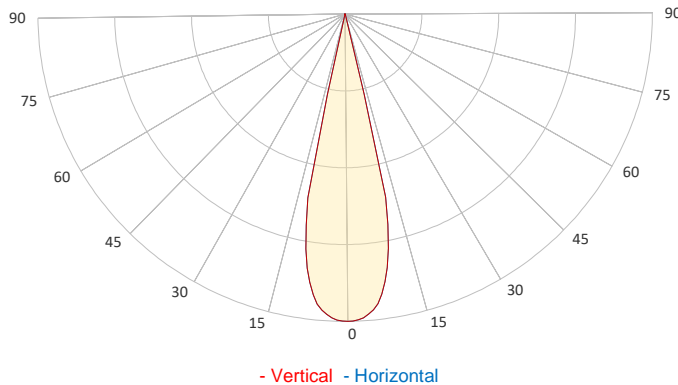
GENERAL SPECIFICATIONS

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

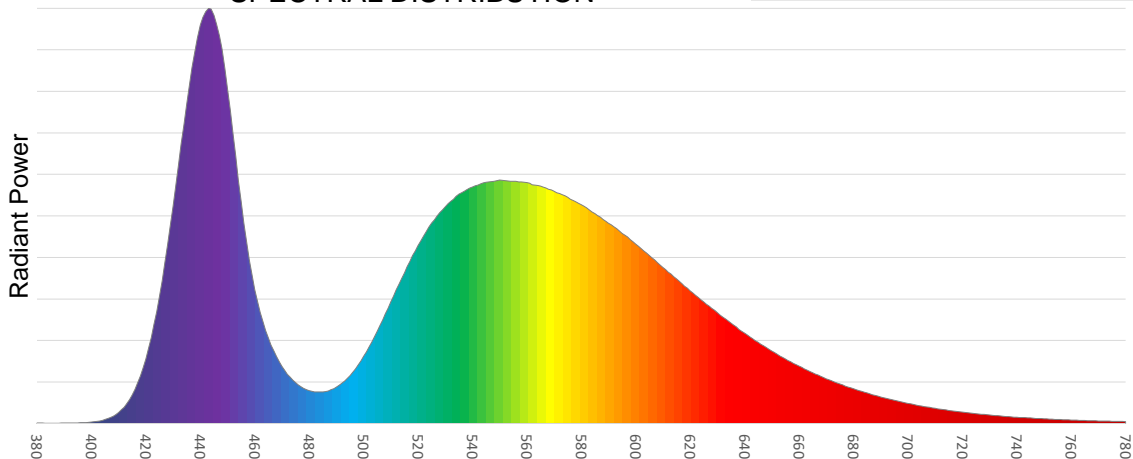


Catalog Number:	90250085HU
Measured Output:	46902 lm
Measured Peak:	360274 cd
Consumed Power:	1402 W
Efficacy:	33.5 lm/W

Beam Angle (50%):	24.6°
Field Angle (10%):	27.3°
Cut-off Angle (3%):	27.9°

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

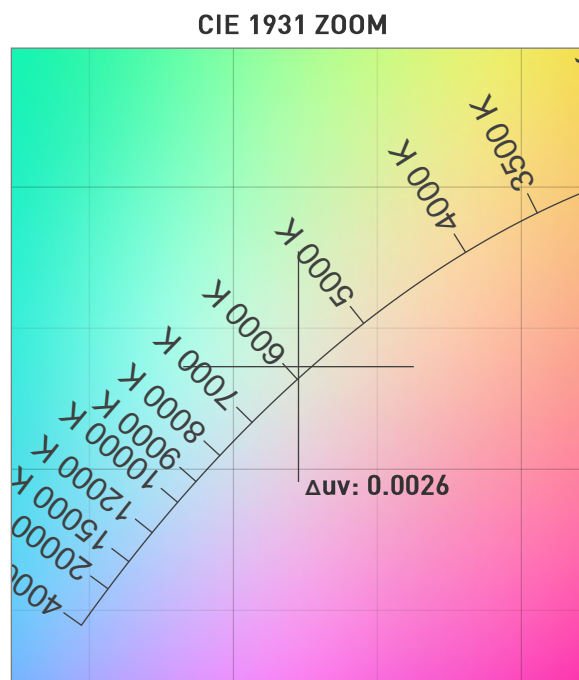
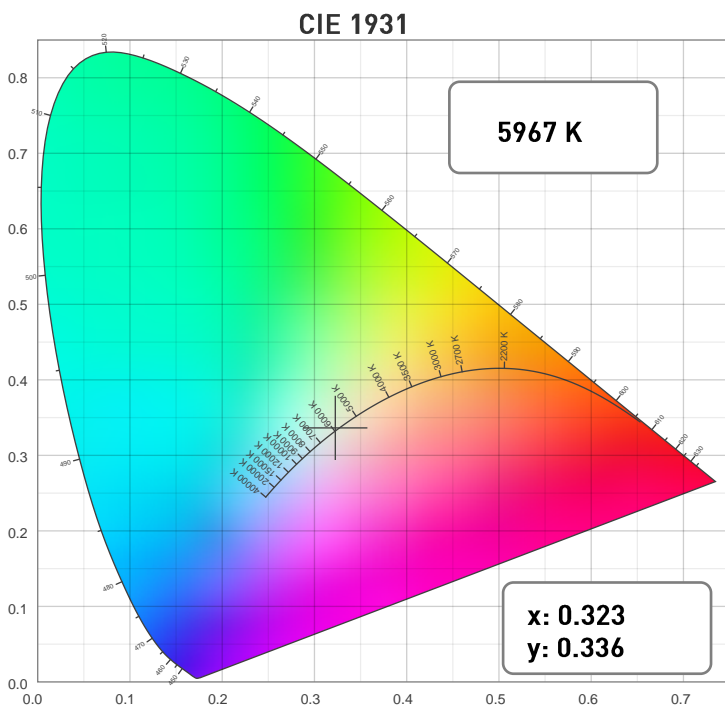
SPECTRAL DISTRIBUTION



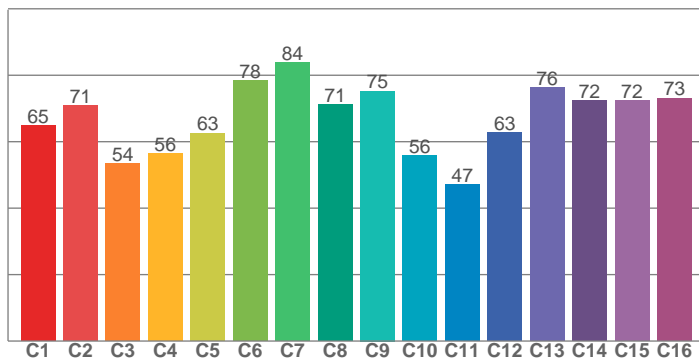
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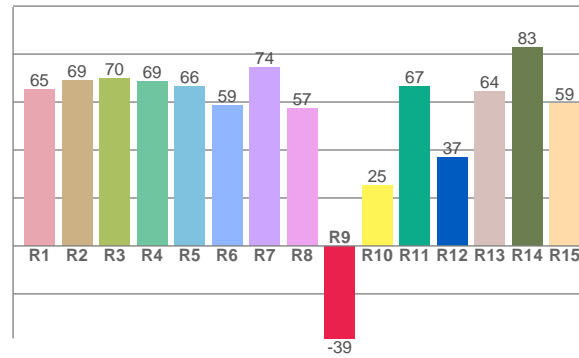
CHROMATICITY



TM30: 66.4



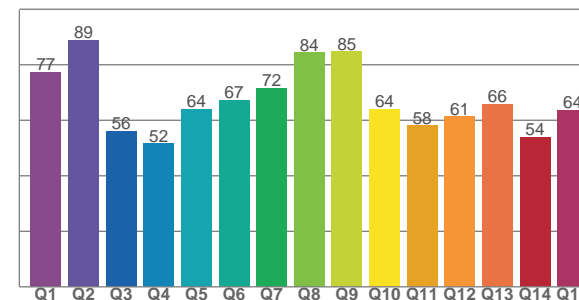
CRI: 66.2 (R1-R8)



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

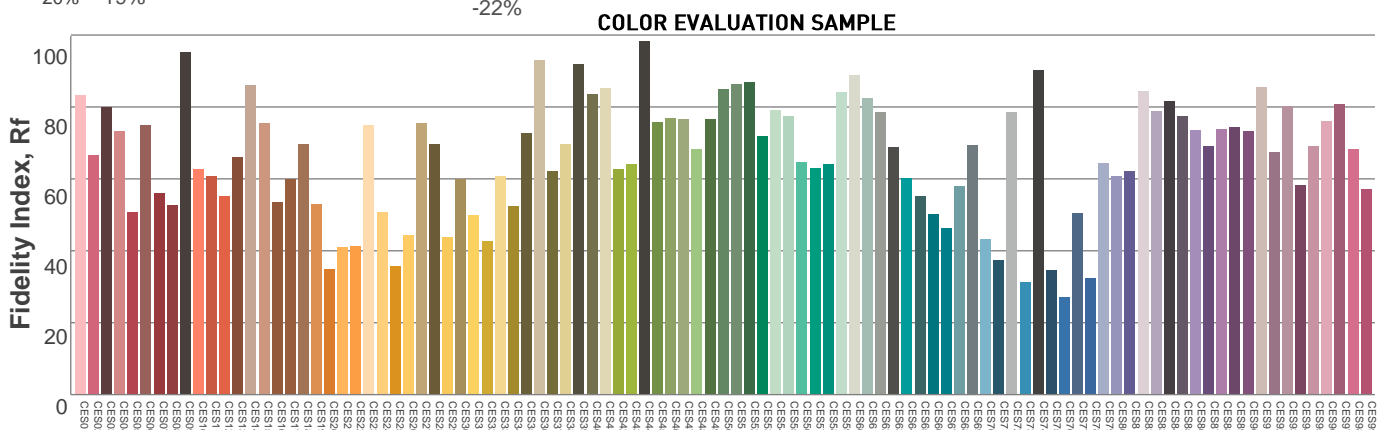
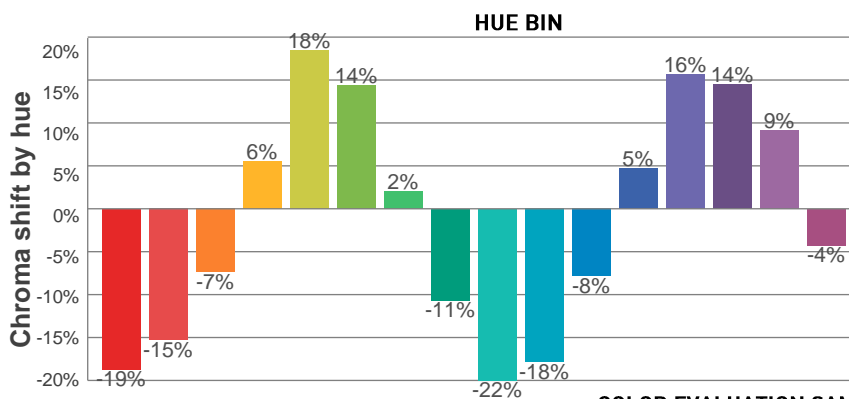
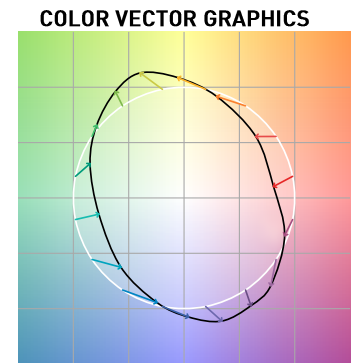
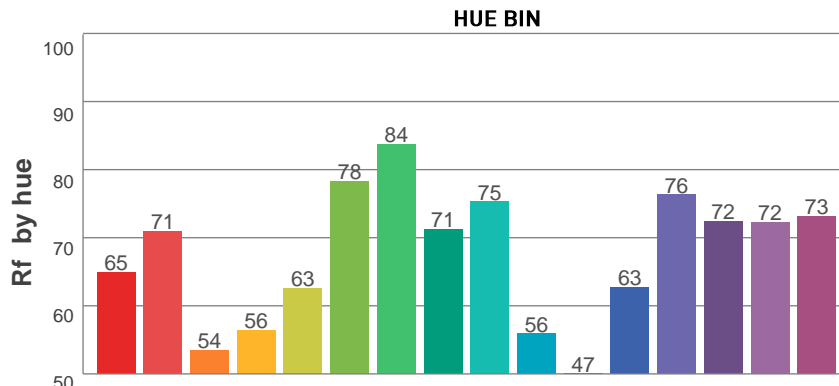
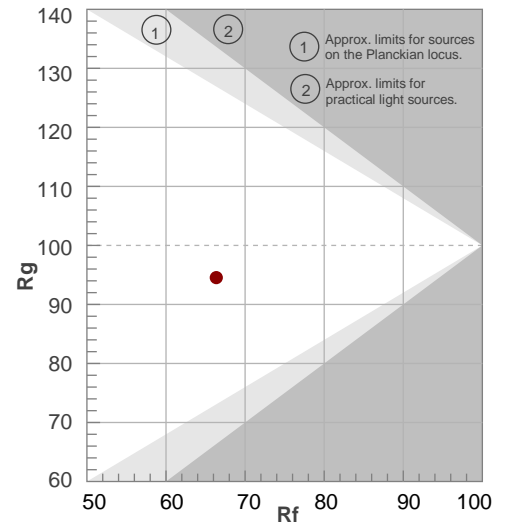
Rf 66.4

Fidelity index Rf

Rg 94.5

Gamut index Rg

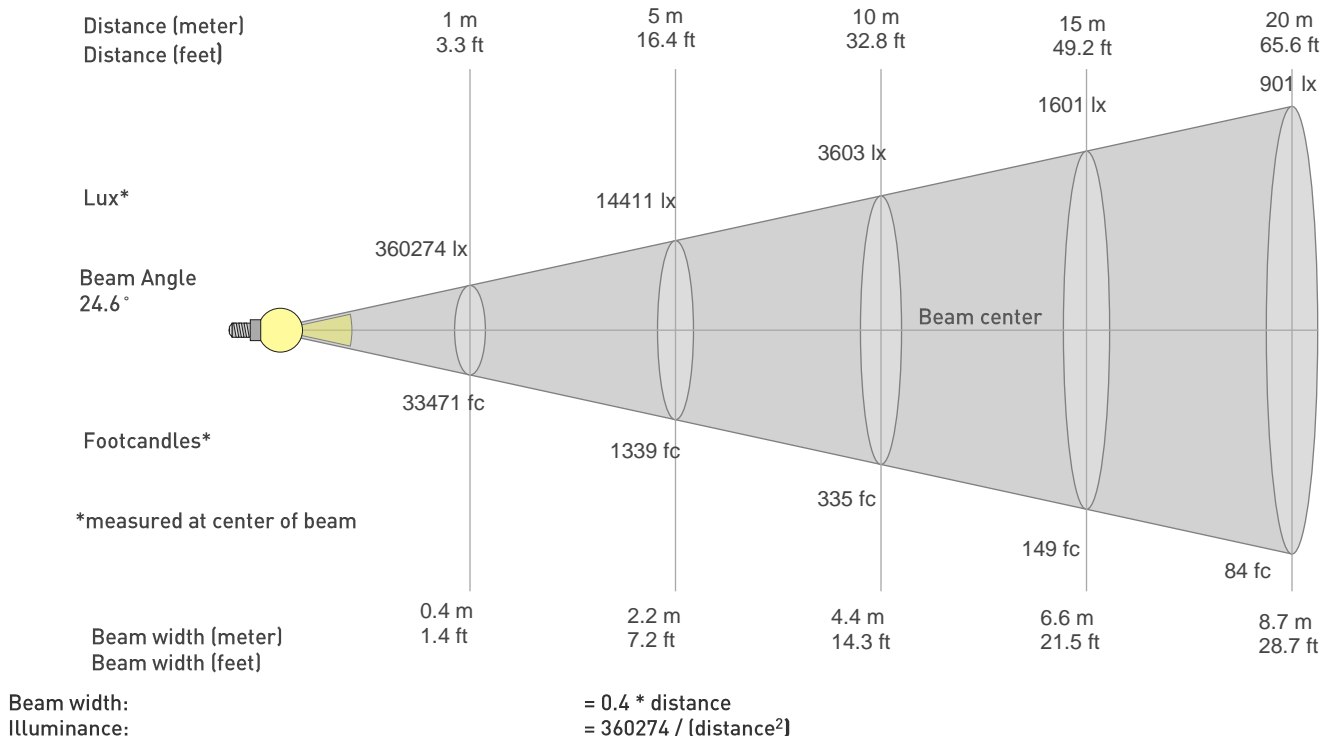
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	65	-19%	-6%
2	71	-15%	10%
3	54	-7%	26%
4	56	6%	27%
5	63	18%	17%
6	78	14%	-2%
7	84	2%	-11%
8	71	-11%	-14%
9	75	-22%	-1%
10	56	-18%	20%
11	47	-8%	32%
12	63	5%	25%
13	76	16%	12%
14	72	14%	-4%
15	72	9%	-22%
16	73	-4%	-16%



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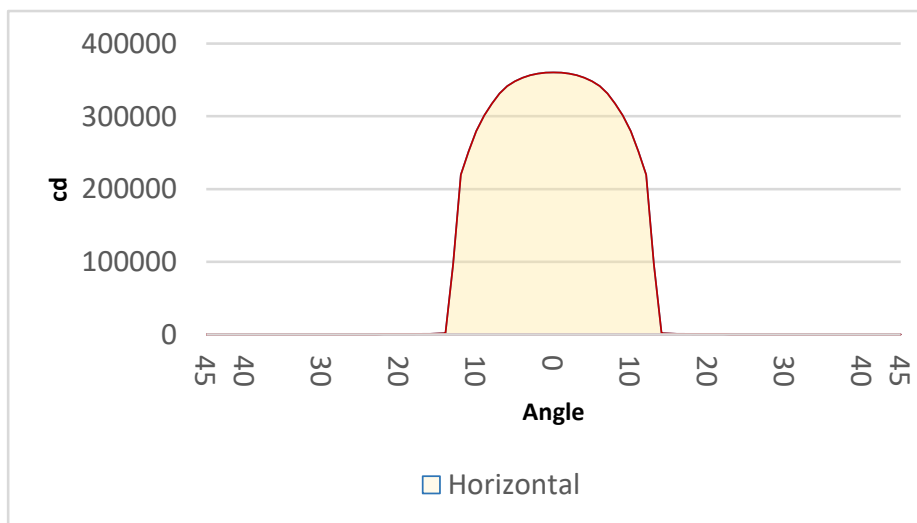
BEAM DETAILS



distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

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
360274lx	90068lx	40030lx	22517lx	14411lx	10008lx	7353lx	5629lx	4448lx	3603lx	2977lx	2502lx	2132lx	1838lx	1601lx	1407lx	1247lx	1112lx	998lx	901lx
33470.5fc	8367.6fc	3718.9fc	2091.9fc	1338.8fc	929.7fc	683.1fc	523fc	413.2fc	334.7fc	276.6fc	232.4fc	198.1fc	170.8fc	148.8fc	130.7fc	115.8fc	103.3fc	92.7fc	83.7fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
24.6°	27.3°	27.9°