

Photometric Report

MAC Ultra Wash – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

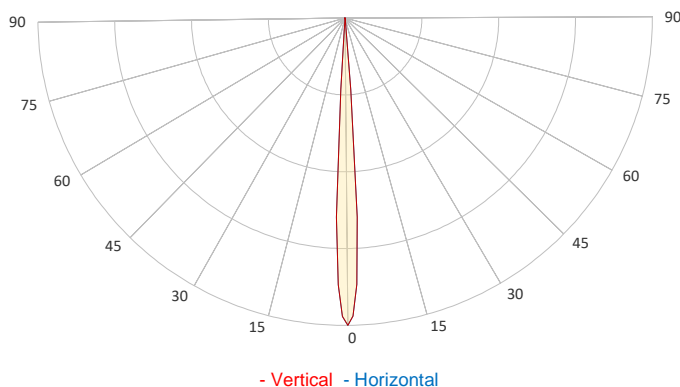
GENERAL SPECIFICATIONS

Total Fixture Output:	63500 lm
Light Engine Output:	90000 lm
Efficacy:	44 lm/W
Lens Option:	N/A
Beam Angle (50%):	6,8-47,5°
Field Angle (10%):	9,1-62,0°
Cut-off Angle (3%):	10,0-65,8°
CRI:	66 (+/-3)
CQS:	66
TM-30 Rf:	66
TM-30 Rg:	95
TLCI:	40
Color Temperature:	6000 K (+/-250 K)



SAMPLE MEASUREMENT

POLAR PLOT

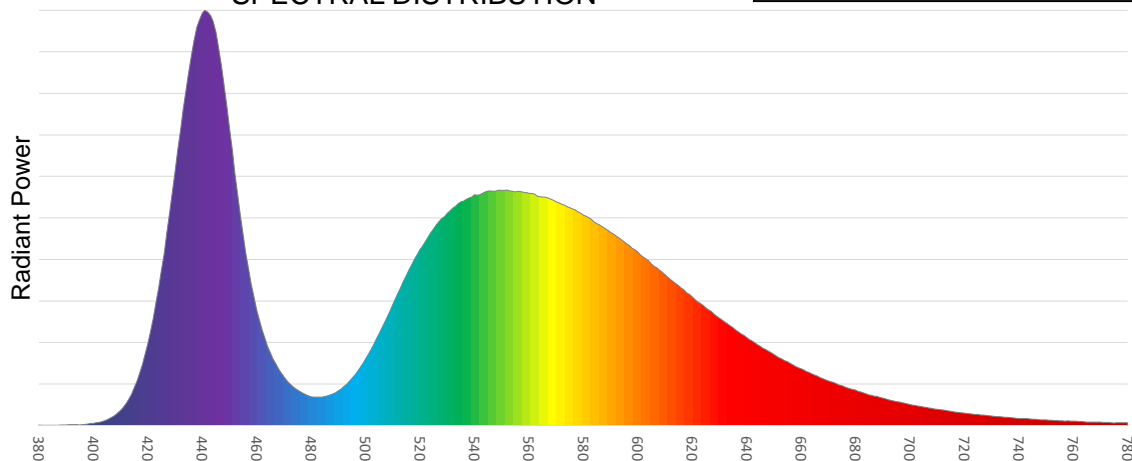


Catalog Number:	90250055HU
Measured Output:	61203 lm
Measured Peak:	5352349 cd
Consumed Power:	1334 W
Efficacy:	45.9 lm/W

Beam Angle (50%):	6.8°
Field Angle (10%):	9.1°
Cut-off Angle (3%):	10.5°

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

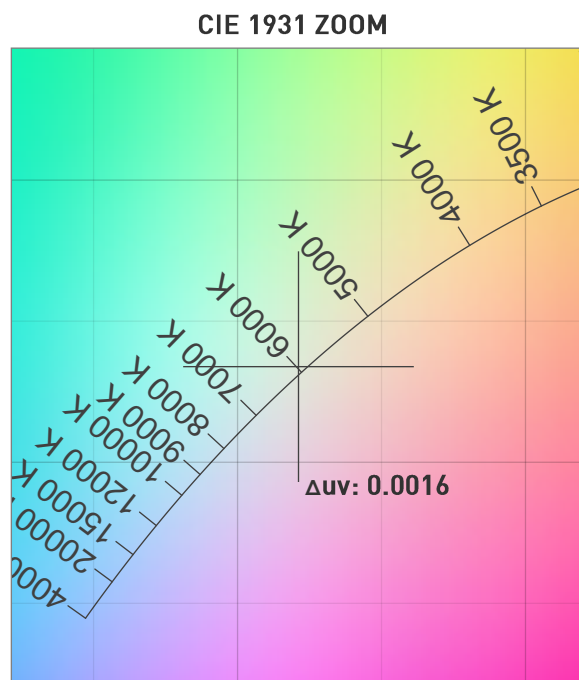
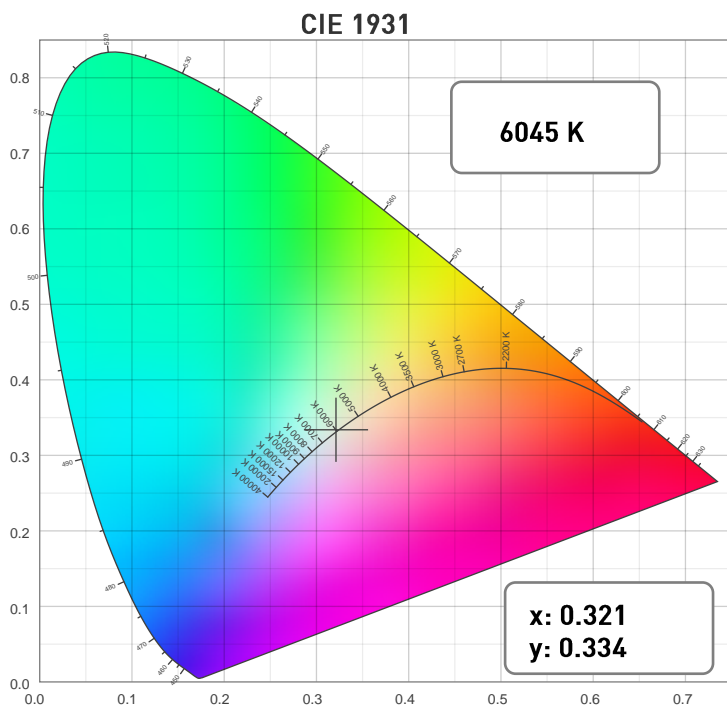
SPECTRAL DISTRIBUTION



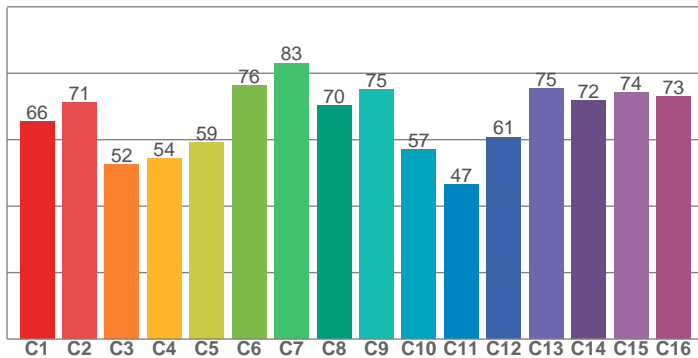
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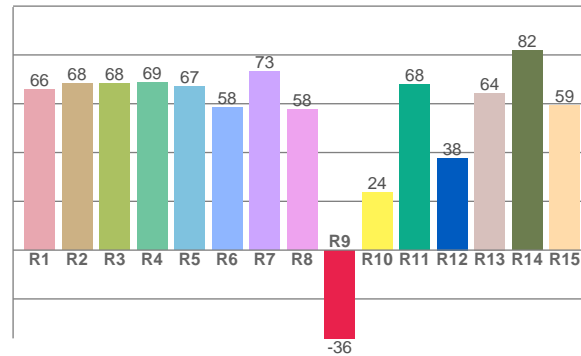
CHROMATICITY



TM30: 65.6



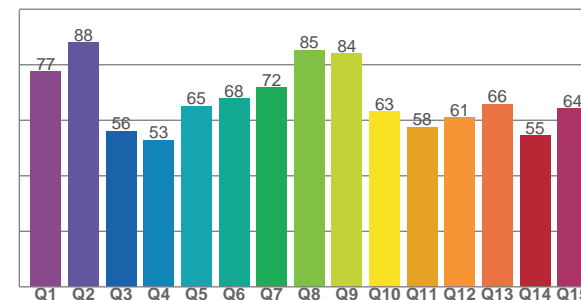
CRI: 65.9 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6045 K	65.9	-36.2	65.6	95.3

CQS: 65.8



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	65.8	0.321	0.334	0.202	0.315	0.0016

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TM30

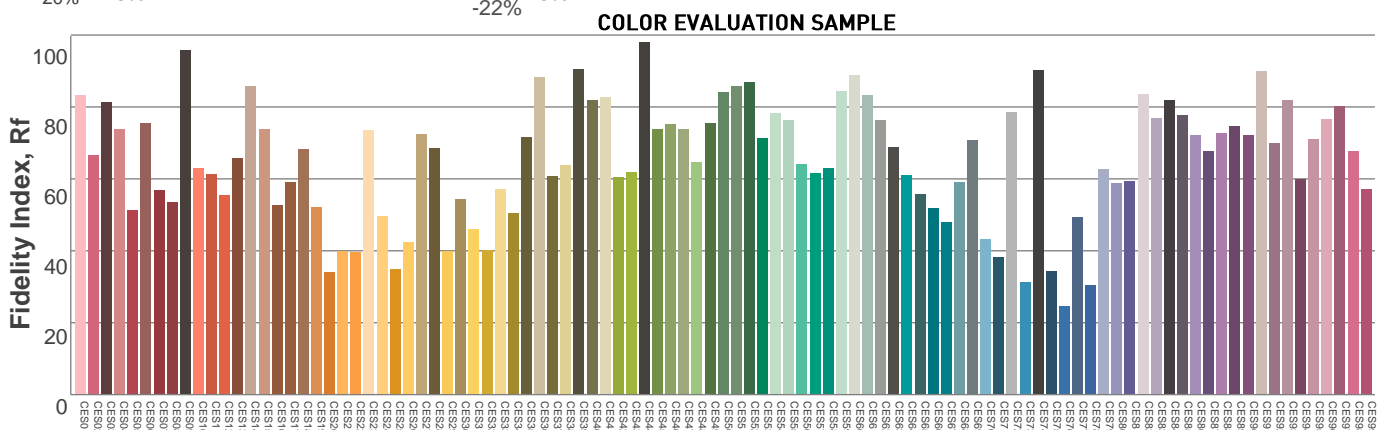
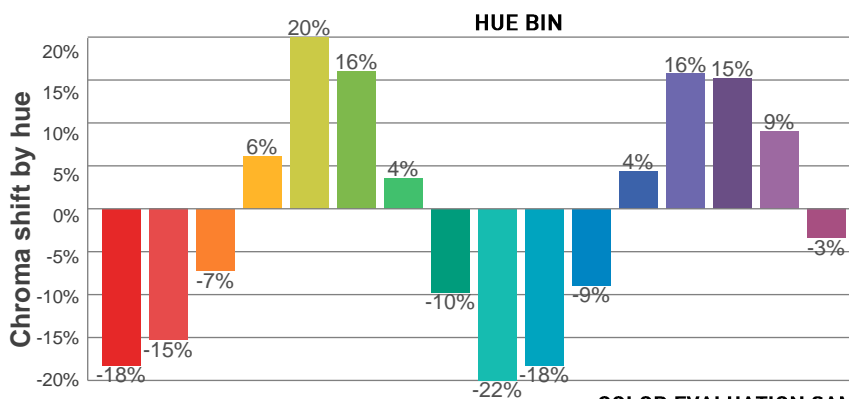
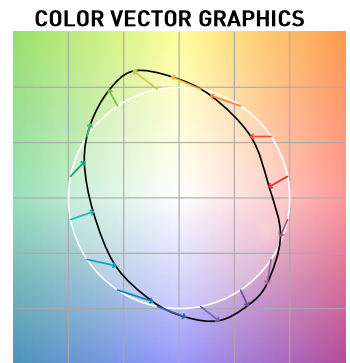
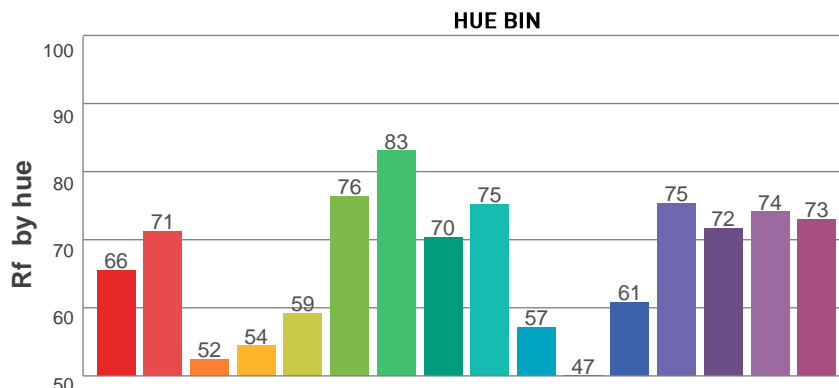
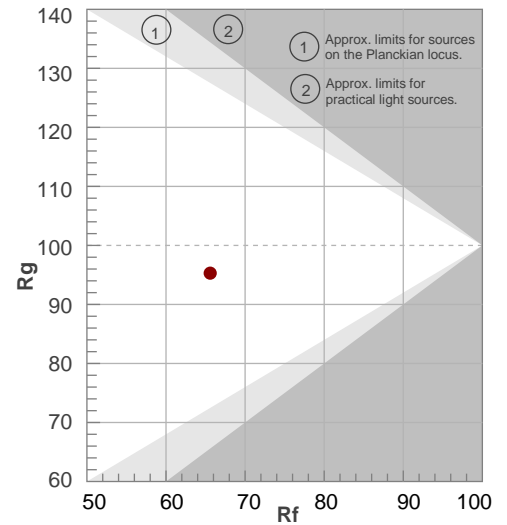
Rf 65.6

Fidelity index Rf

Rg 95.3

Gamut index Rg

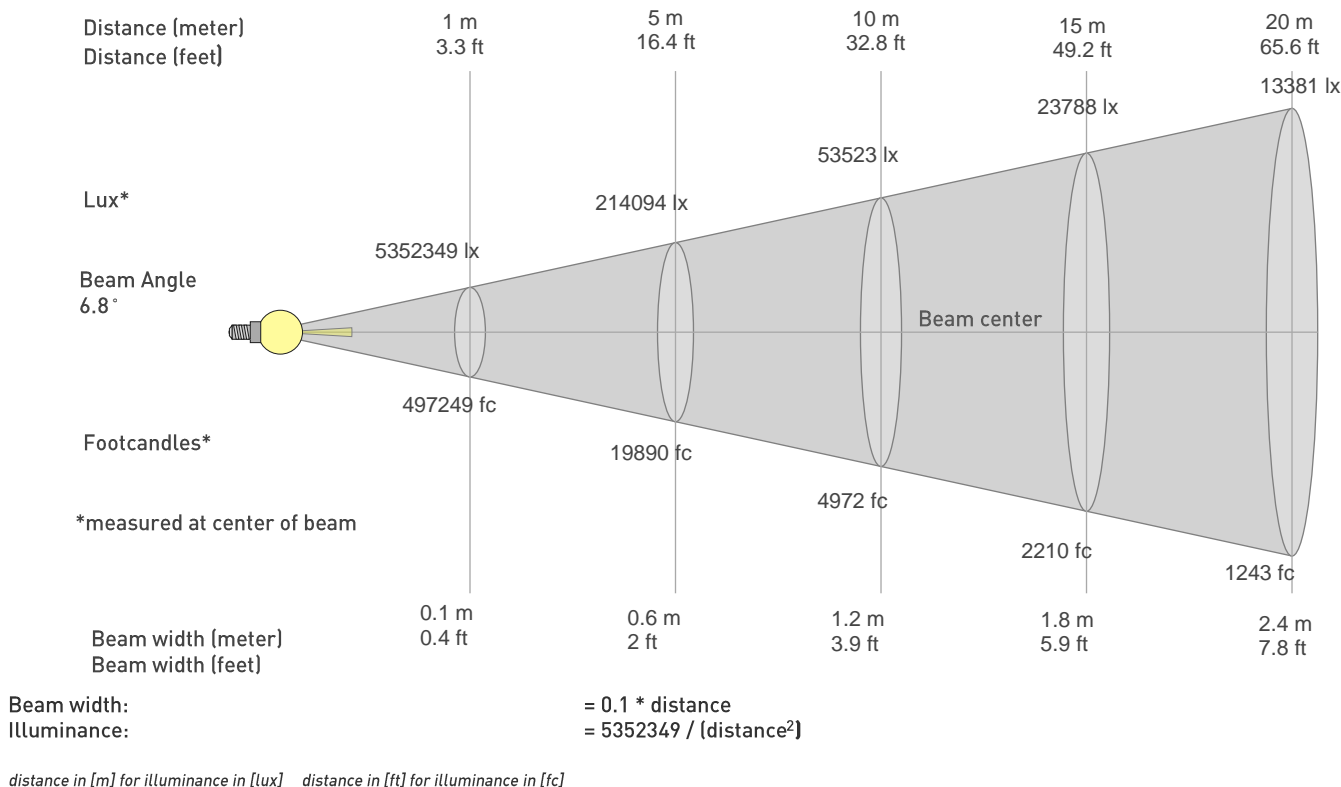
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	66	-18%	-6%
2	71	-15%	10%
3	52	-7%	27%
4	54	6%	28%
5	59	20%	18%
6	76	16%	-1%
7	83	4%	-11%
8	70	-10%	-15%
9	75	-22%	-3%
10	57	-18%	19%
11	47	-9%	32%
12	61	4%	26%
13	75	16%	14%
14	72	15%	-2%
15	74	9%	-20%
16	73	-3%	-16%



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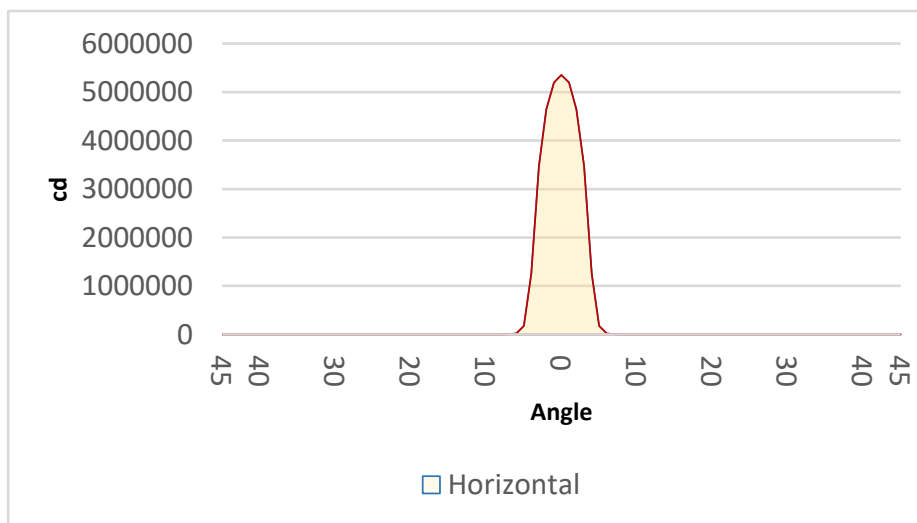
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BEAM DETAILS



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
5352349lx	1338087lx	594705lx	334522lx	214094lx	148676lx	109232lx	83630lx	66078lx	53523lx	44234lx	37169lx	31671lx	27308lx	23788lx	20908lx	18520lx	16520lx	14826lx	13381lx
497249.5fc	124312.4fc	55249.9fc	31078.1fc	19890fc	13812.5fc	10147.9fc	7769.5fc	6138.9fc	4972.5fc	4109.5fc	3453.1fc	2942.3fc	2537fc	2210fc	1942.4fc	1720.6fc	1534.7fc	1377.4fc	1243.1fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
6.8°	9.1°	10.5°