

Photometric Report

MAC Ultra Wash – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

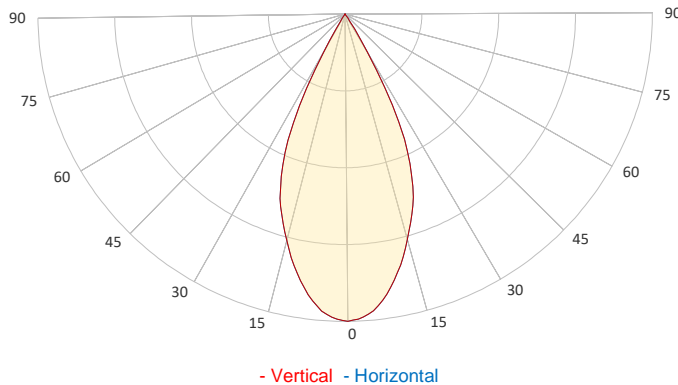
GENERAL SPECIFICATIONS

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

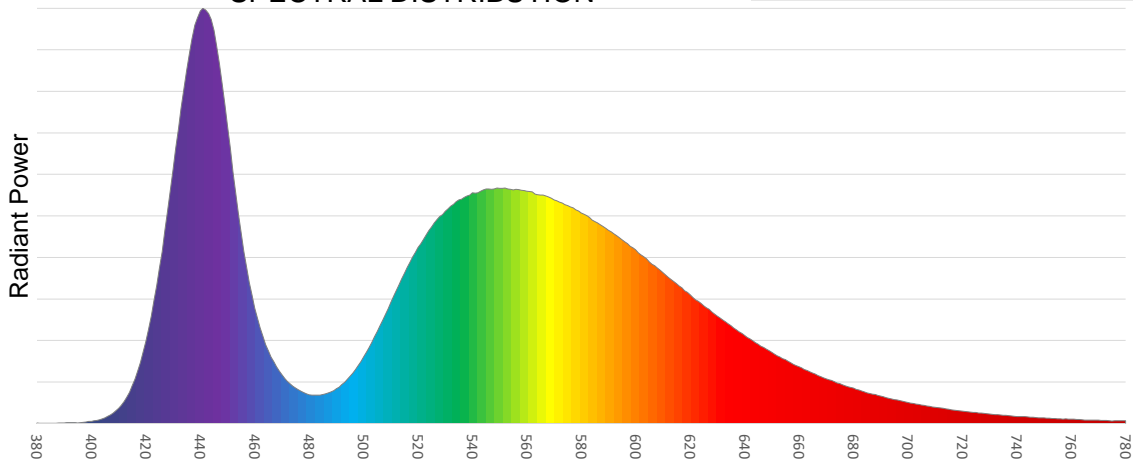


Catalog Number:	90250055HU
Measured Output:	61401 lm
Measured Peak:	121054 cd
Consumed Power:	1334 W
Efficacy:	46.0 lm/W

Beam Angle (50%):	47.5°
Field Angle (10%):	62°
Cut-off Angle (3%):	66.5°

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

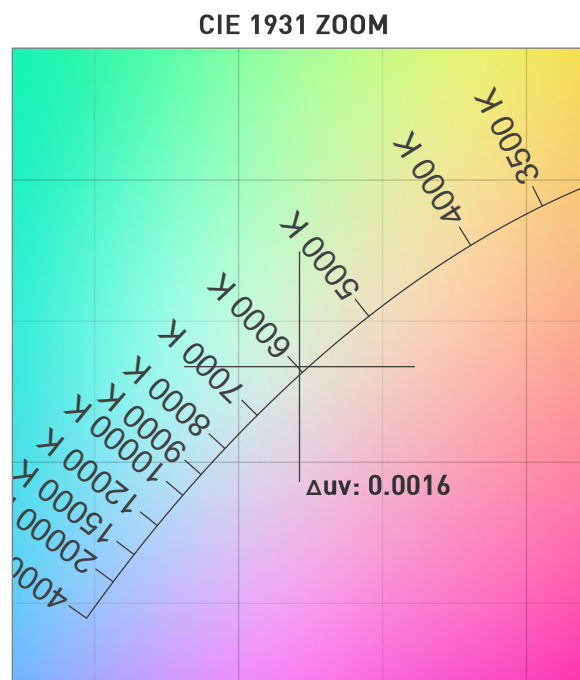
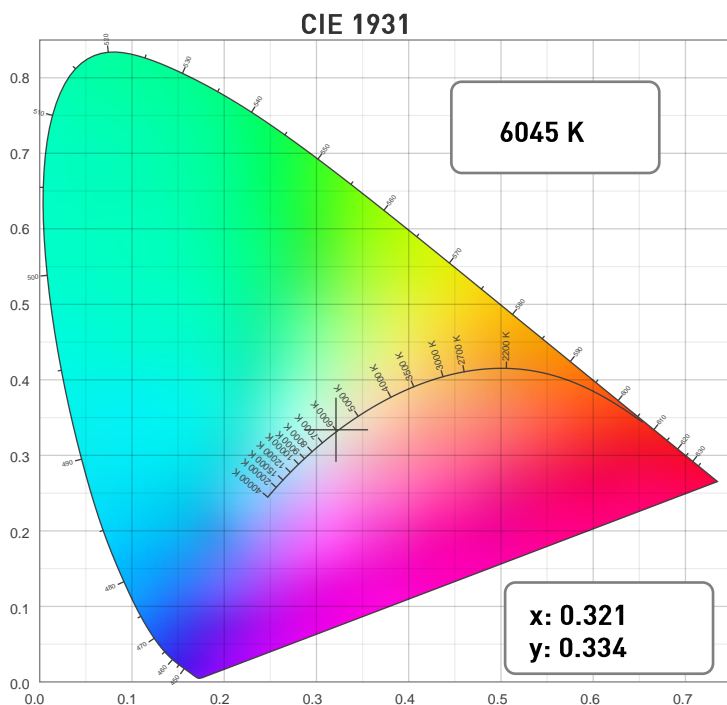
SPECTRAL DISTRIBUTION



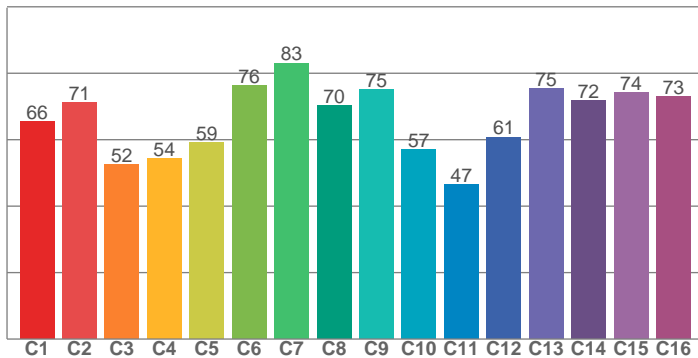
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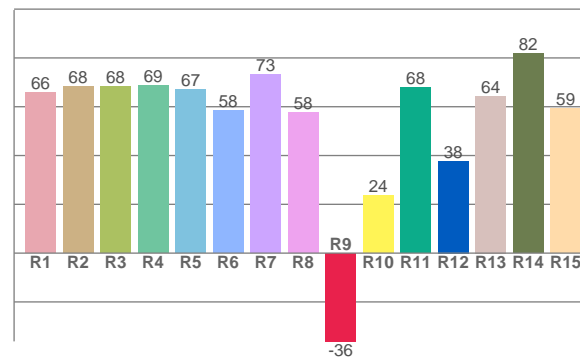
CHROMATICITY



TM30: 65.6



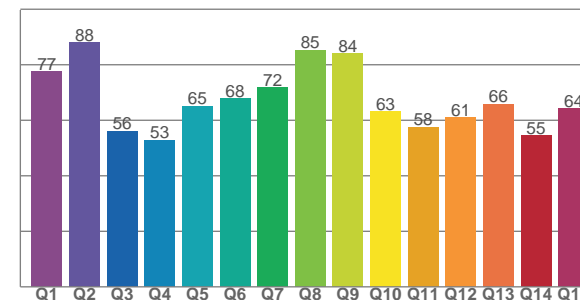
CRI: 65.9 (R1-R8)



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

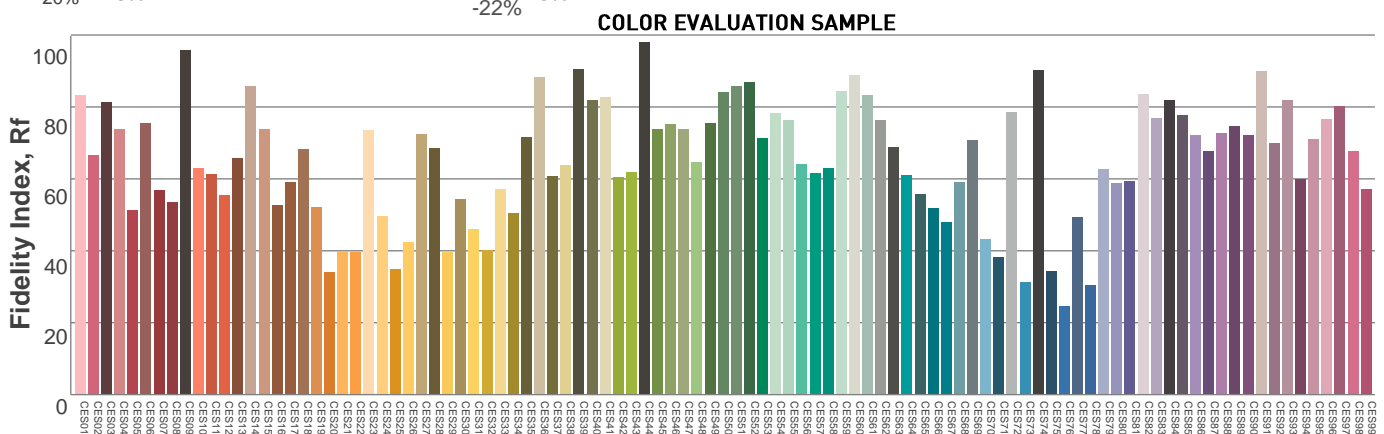
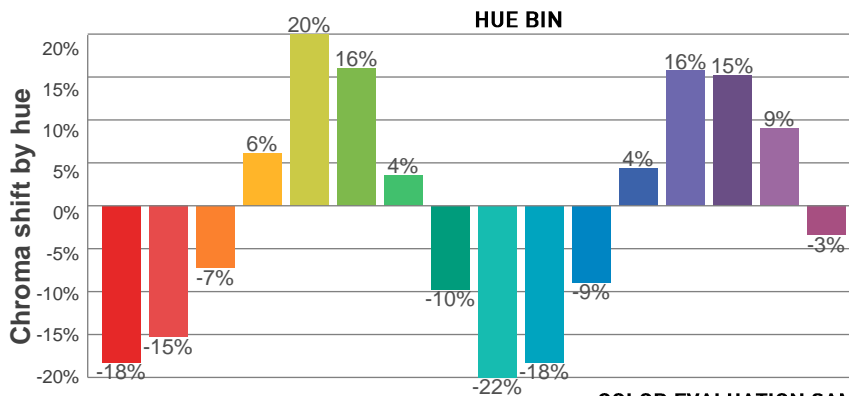
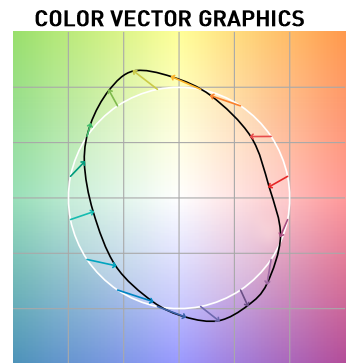
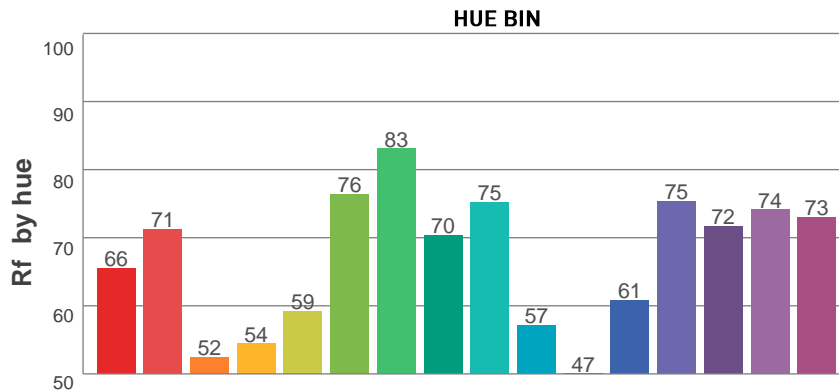
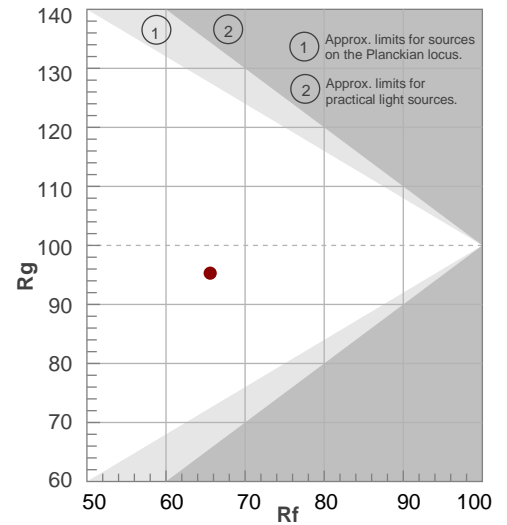
Rf 65.6

Fidelity index Rf

Rg 95.3

Gamut index Rg

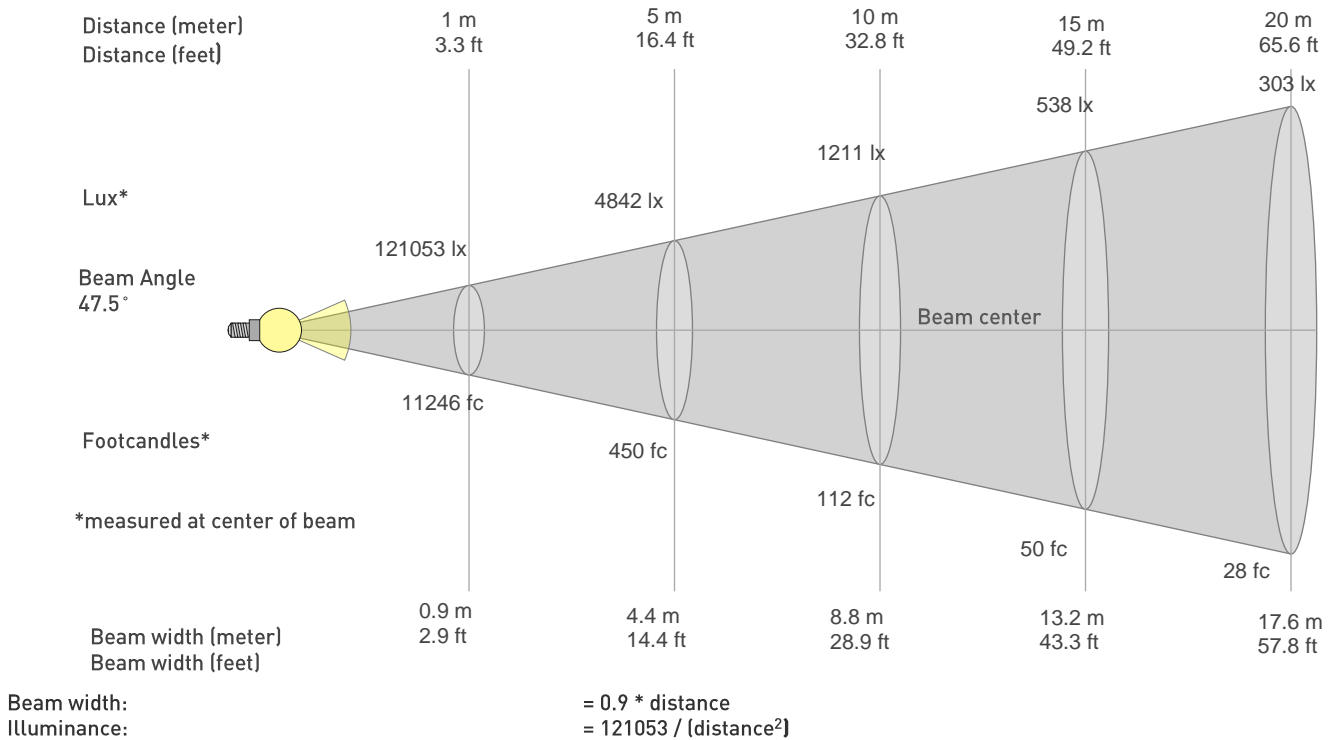
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	66	-18%	-6%
2	71	-15%	10%
3	52	-7%	27%
4	54	6%	28%
5	59	20%	18%
6	76	16%	-1%
7	83	4%	-11%
8	70	-10%	-15%
9	75	-22%	-3%
10	57	-18%	19%
11	47	-9%	32%
12	61	4%	26%
13	75	16%	14%
14	72	15%	-2%
15	74	9%	-20%
16	73	-3%	-16%



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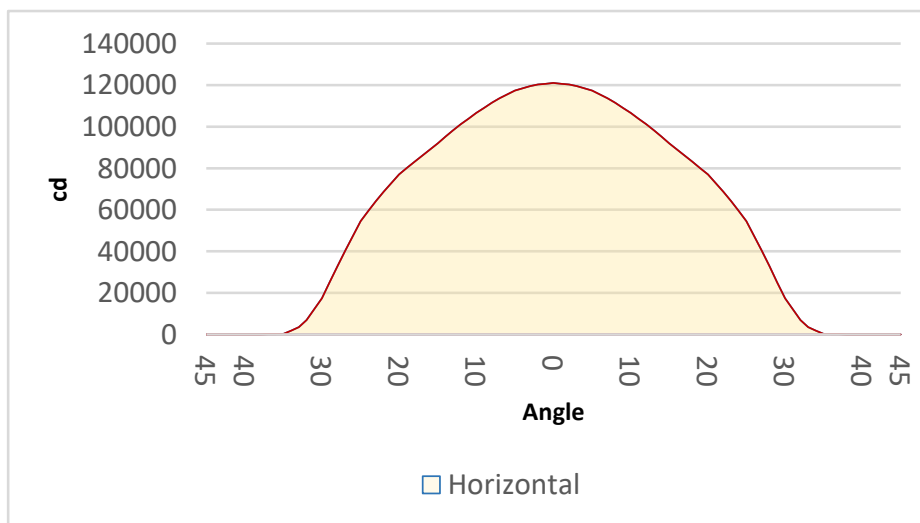
BEAM DETAILS



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
121053lx	30263lx	13450lx	7566lx	4842lx	3363lx	2470lx	1891lx	1494lx	1211lx	1000lx	841lx	716lx	618lx	538lx	473lx	419lx	374lx	335lx	303lx
11246.2fc	2811.6fc	1249.6fc	702.9fc	449.8fc	312.4fc	229.5fc	175.7fc	138.8fc	112.5fc	92.9fc	78.1fc	66.5fc	57.4fc	50fc	43.9fc	38.9fc	34.7fc	31.2fc	28.1fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
47.5°	62°	66.5°