

Photometric Report

MAC Ultra Wash – Half Zoom

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

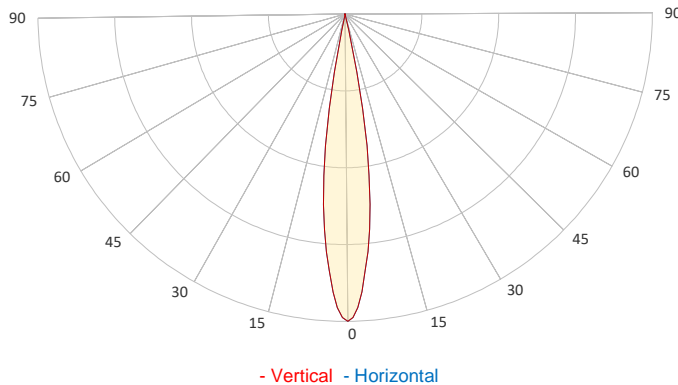
GENERAL SPECIFICATIONS

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

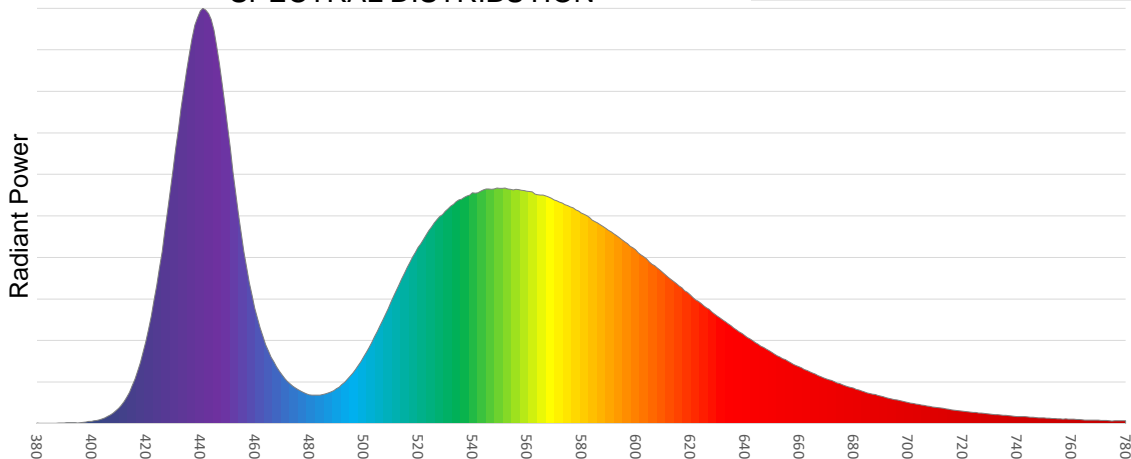


Catalog Number:	90250055HU
Measured Output:	65148 lm
Measured Peak:	950326 cd
Consumed Power:	1334 W
Efficacy:	48.8 lm/W

Beam Angle (50%):	16.6°
Field Angle (10%):	23.3°
Cut-off Angle (3%):	25.3°

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

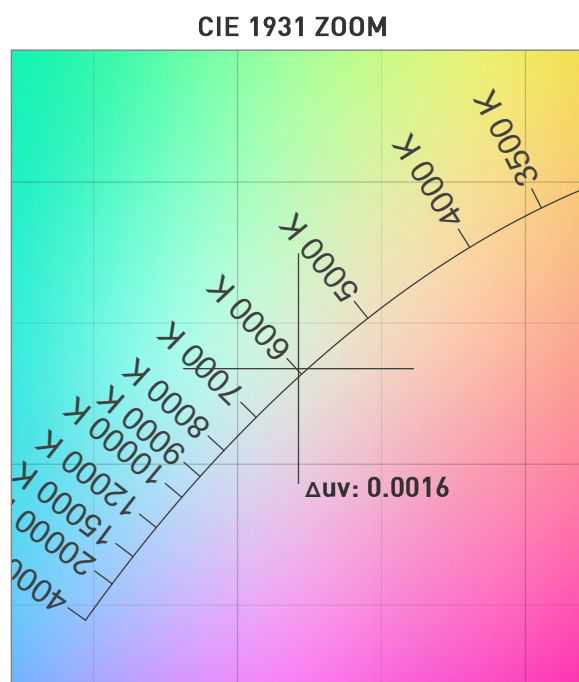
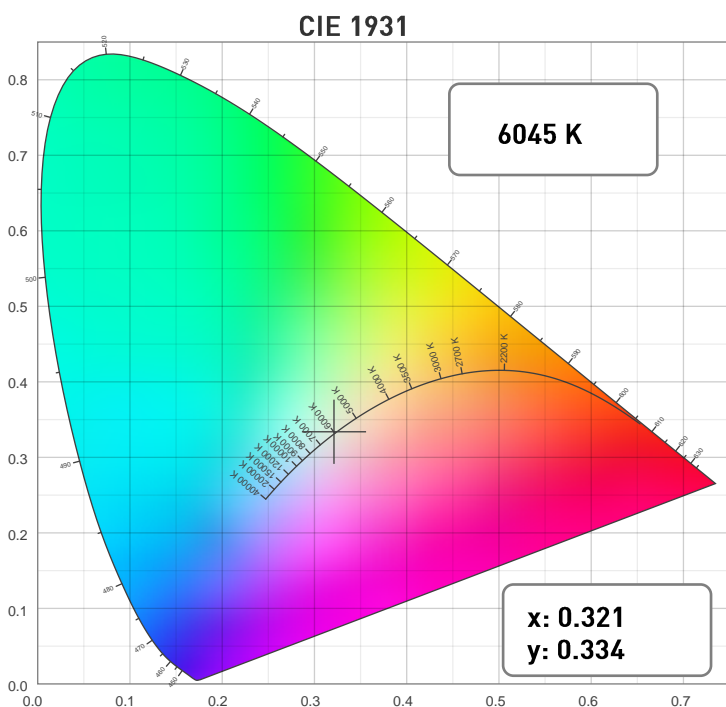
SPECTRAL DISTRIBUTION



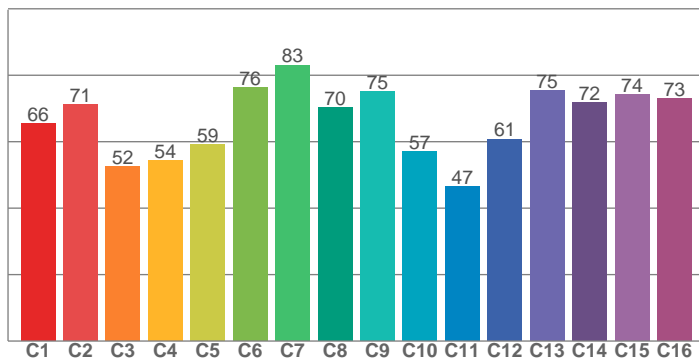
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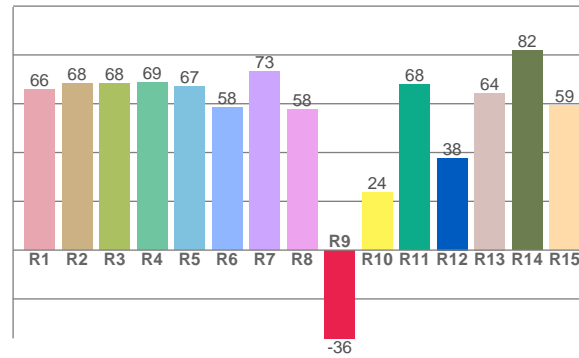
CHROMATICITY



TM30: 65.6



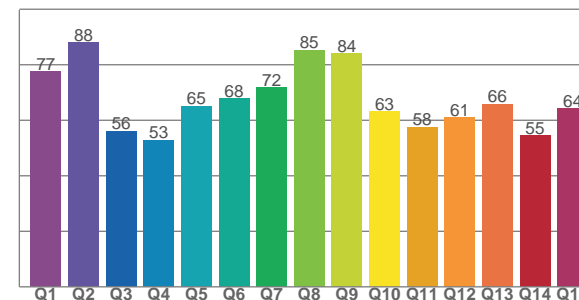
CRI: 65.9 (R1-R8)



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

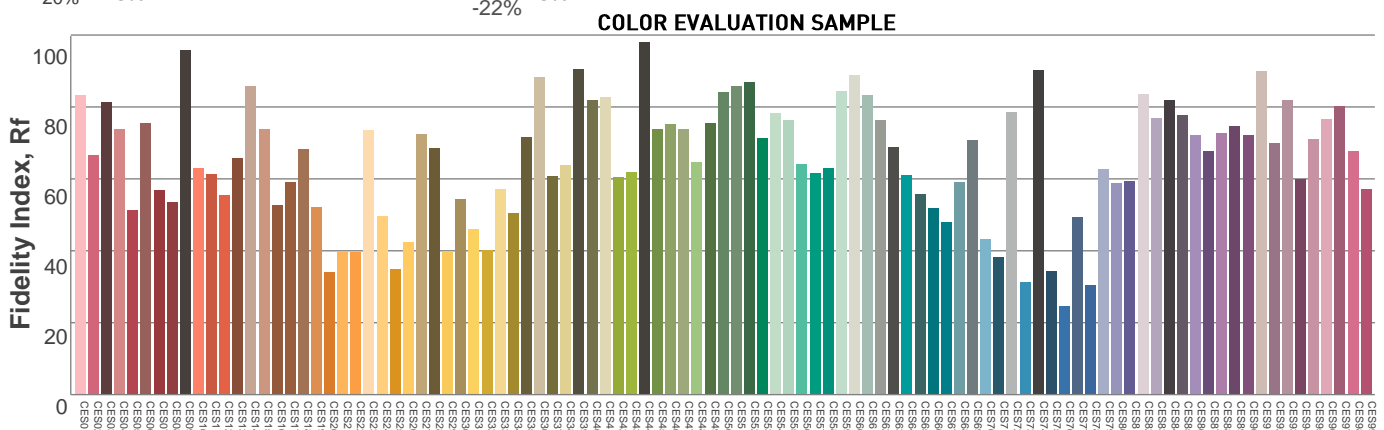
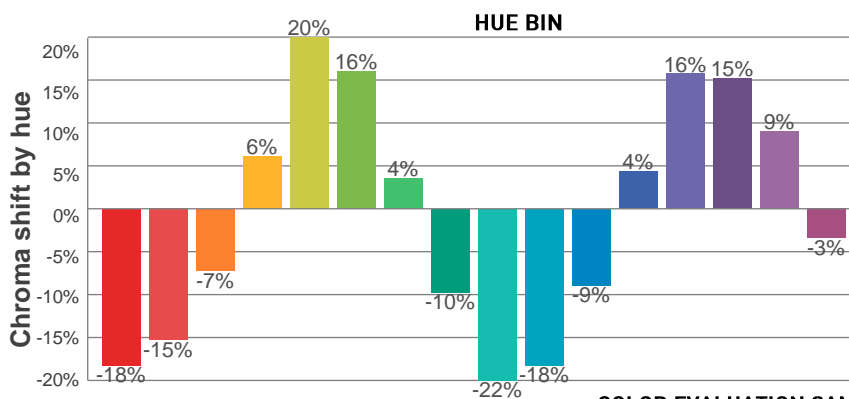
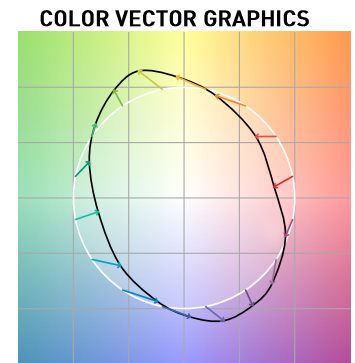
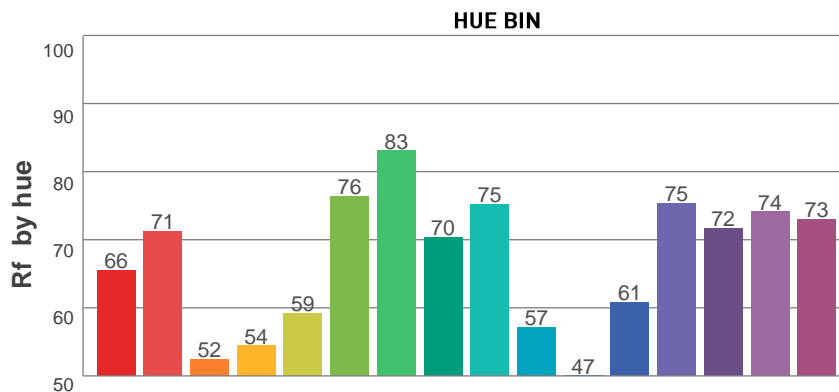
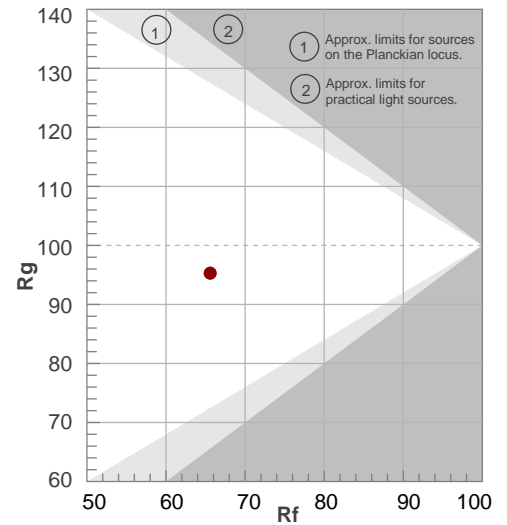
Rf 65.6

Fidelity index Rf

Rg 95.3

Gamut index Rg

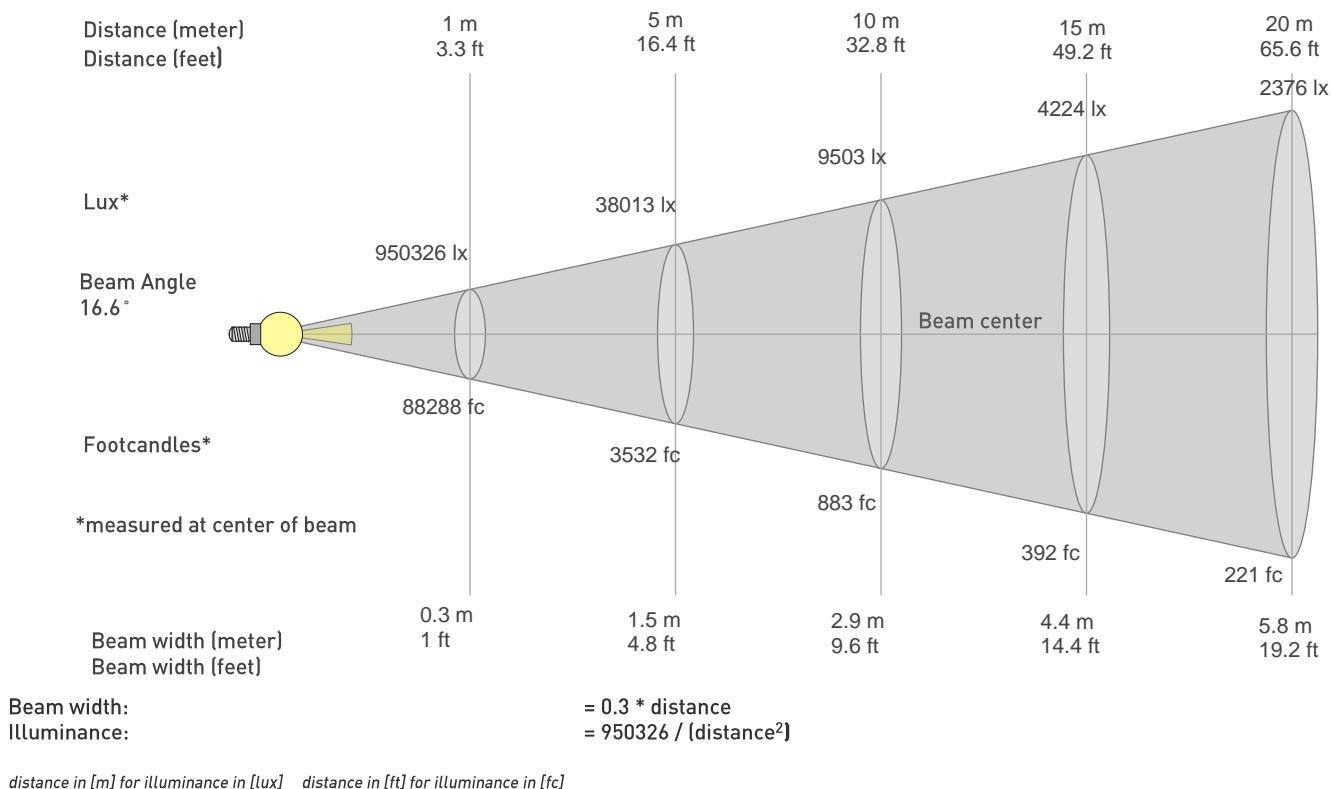
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	66	-18%	-6%
2	71	-15%	10%
3	52	-7%	27%
4	54	6%	28%
5	59	20%	18%
6	76	16%	-1%
7	83	4%	-11%
8	70	-10%	-15%
9	75	-22%	-3%
10	57	-18%	19%
11	47	-9%	32%
12	61	4%	26%
13	75	16%	14%
14	72	15%	-2%
15	74	9%	-20%
16	73	-3%	-16%



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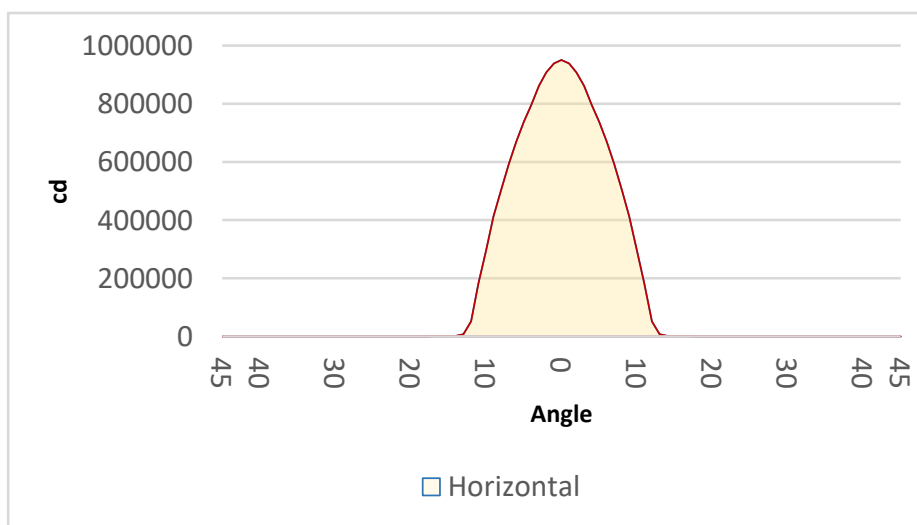
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BEAM DETAILS



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
950326lx	237581lx	105592lx	59395lx	38013lx	26398lx	19394lx	14849lx	11732lx	9503lx	7854lx	6599lx	5623lx	4849lx	4224lx	3712lx	3288lx	2933lx	2632lx	2376lx
88288.2fc	22072fc	9809.8fc	5518fc	3531.5fc	2452.4fc	1801.8fc	1379.5fc	1090fc	882.9fc	729.7fc	613.1fc	522.4fc	450.4fc	392.4fc	344.9fc	305.5fc	272.5fc	244.6fc	220.7fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
16.6°	23.3°	25.3°