

Photometric Report

MAC Encore Wash CLD - Wide

Martin Professional R&D Optical Laboratory, 01-Nov-17 11:19:05

General Specifications:

Total Fixture Output: 11.1 klm Light Engine Output: 39.4 klm

Efficacy: 19 Lumen/Watt Lens Option: Fresnel Lens

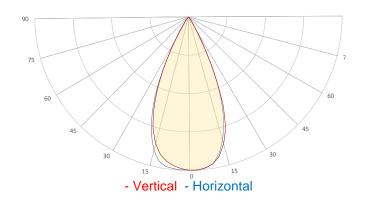
Zoomrange: 14-60°

CRI: 80+ CQS: 80+ TM-30 Rf: 80+ TM-30 Rg: 95+ TLCI: 70+

Color Temperature: 6000 K



Measurement



Catalog Number: 90234045 Measured Output: 10951 Im Measured Peak: 20656 cd Consumed Power: 590 W Efficacy: 18.6 Lumen/Watt

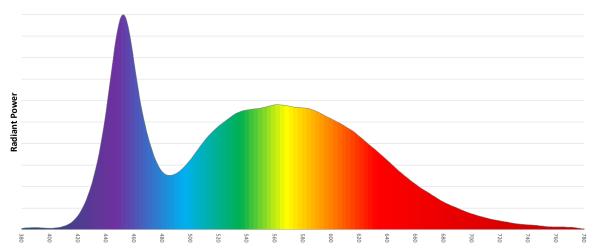
Beam Angle (50%): 46.8° Field Angle (10%): 61.8° Cuttoff Angle (3%): 70.7°

Measurement Condition:

Ambient Temperature: 25 +/- 5C

AC Supply: 230V/50Hz

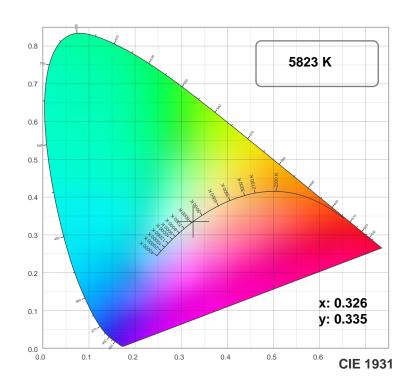


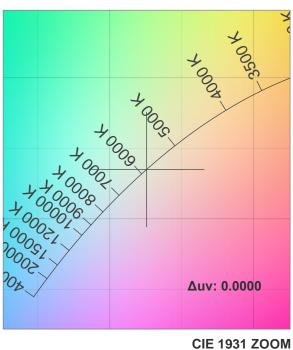




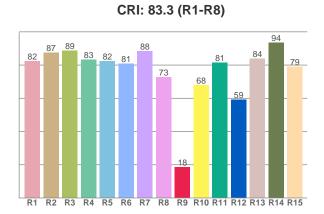
Chromaticity

MAC Encore Wash CLD - Wide



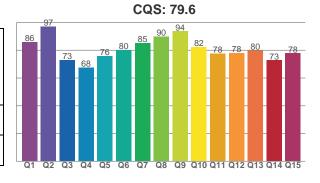


TM30: 80.5



Color Parameters

Color Temperature	Color Render- ring Index	Red Compo- nent	Color Fidelity	Color Gamut	
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	
5823 K	83.3	18.4	80.5	96.2	



Television Lighting Consistency Index	Color Quality Scale	Color Coordinate CIE 1931 Color Coordinate CIE 1931		Color Coordinate CIE 1964	Color Coordinate CIE 1964	Color Diviation from Black Body	
TLCI	CQS	х	у	u	V	Δυν	
70+	79.6	0.326	0.335	0.205	0.316	0.0000	



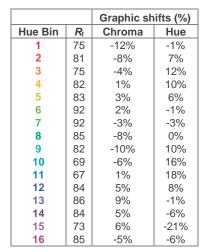
TM30 MAC Encore Wash CLD – Wide

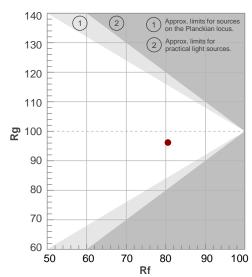
Rf 80.5

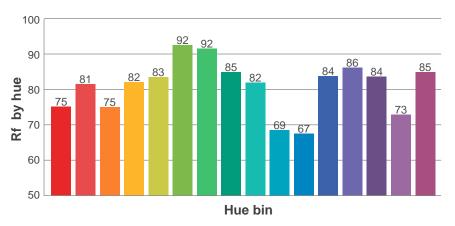
Fidelity index Rf

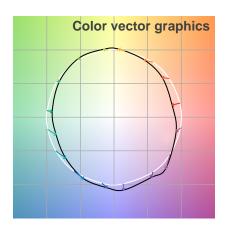
Rg 96.2

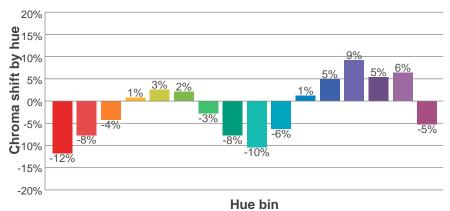
Gamut index Rg

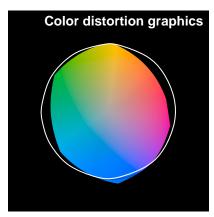


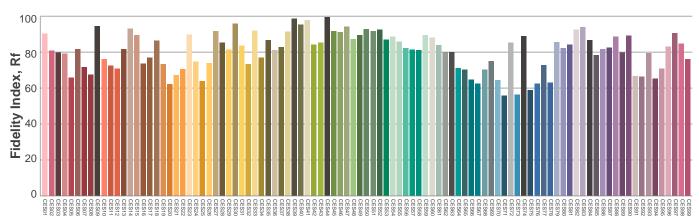








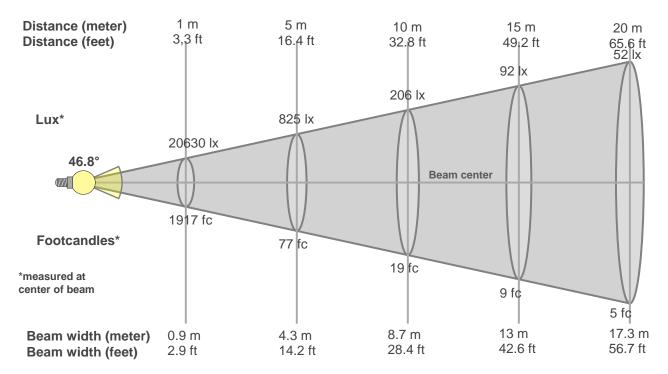




Color Evaluation Sample



Beam Details MAC Encore Wash CLD – Wide



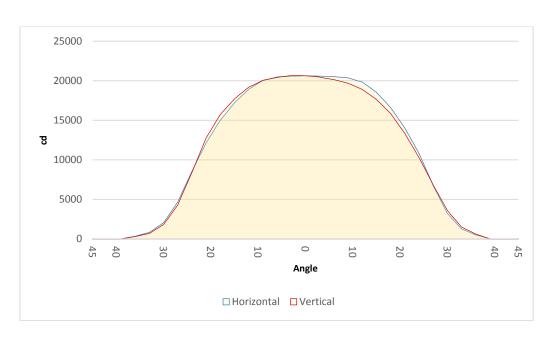
Beam width:
Beam luminous intensity formula:

w = 0.9 * distance

lux = $20630 / (distance^2)$ (where distance is in meters) fc = $20630 / (distance^2)$ (where distance is in feet)

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
20630lx	5158lx	2292lx	1289lx	825lx	573lx	421lx	322lx	255lx	206lx	170lx	143lx	122lx	105lx	92lx	81lx	71lx	64lx	57lx	52lx
1916.6fc	479.2fc	213fc	119.8fc	76.7fc	53.2fc	39.1fc	29.9fc	23.7fc	19.2fc	15.8fc	13.3fc	11.3fc	9.8fc	8.5fc	7.5fc	6.6fc	5.9fc	5.3fc	4.8fc

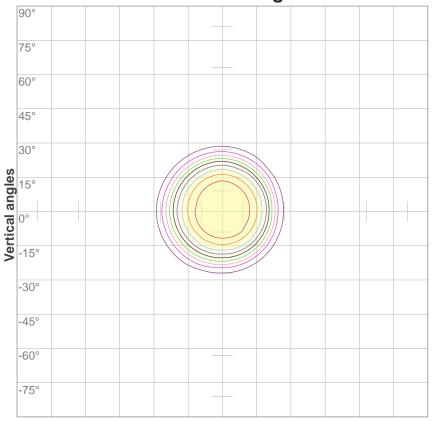


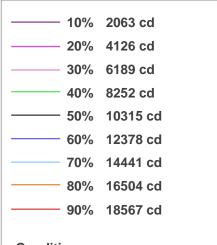
Beam angle 50%	Field angle 10%	Cutoff angle 3%
46.8°	61.8°	70.7°



ISO Diagrams MAC Encore Wash CLD – Wide

ISO candela diagram





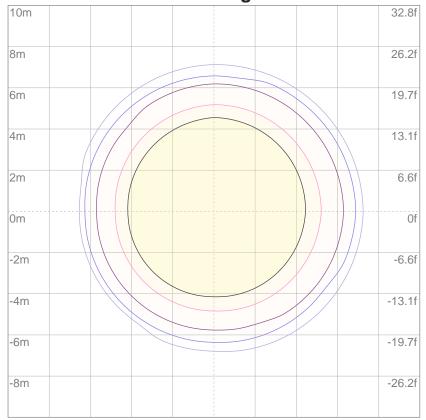
Conditions:

Number of c-planes: 4

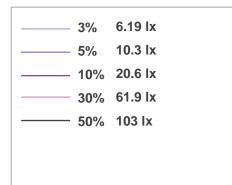
Candela at center: 20630 cd

Horizontal angles

ISO lux diagram







Conditions:

Number of c-planes: 4 Lux at center: 206 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.