

Photometric Report

MAC Encore Wash CLD - Wide

Martin Professional R&D Optical Laboratory, 01-Nov-17 11:14:14

General Specifications:

Total Fixture Output: 12.4 klm
Light Engine Output: 39.4 klm

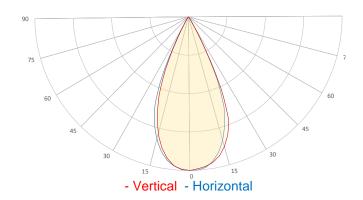
Efficacy: 21 Lumen/Watt Lens Option: PC Lens Zoomrange: 11-58°

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

Color Temperature: 6000 K



Measurement



Catalog Number: 90234045 Measured Output: 12231 Im Measured Peak: 24932 cd Consumed Power: 590 W Efficacy: 20.7 Lumen/Watt

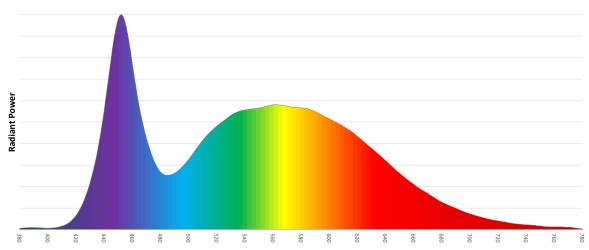
Beam Angle (50%): 46.3° Field Angle (10%): 58.5° Cuttoff Angle (3%): 65.2°

Measurement Condition:

Ambient Temperature: 25 +/- 5C

AC Supply: 230V/50Hz

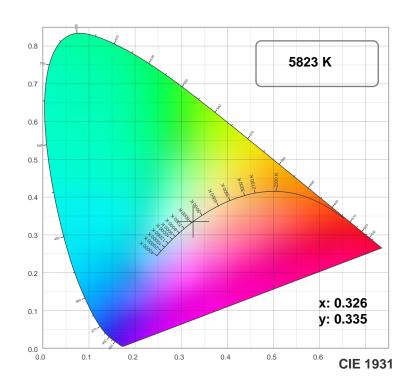


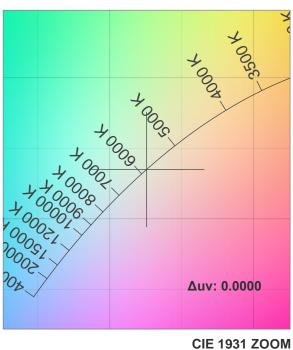




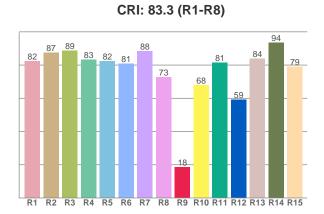
Chromaticity

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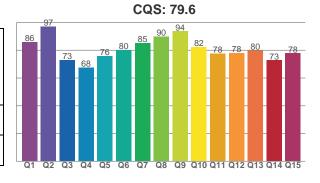


TM30: 80.5



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 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	



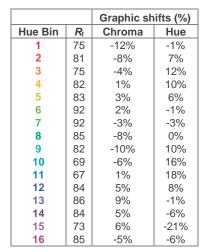
TM30 MAC Encore Wash CLD – Wide

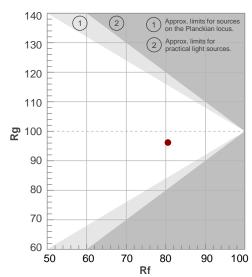
Rf 80.5

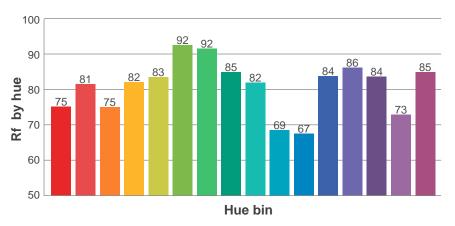
Fidelity index Rf

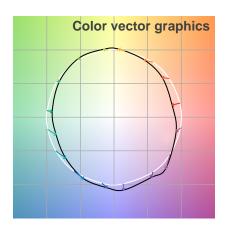
Rg 96.2

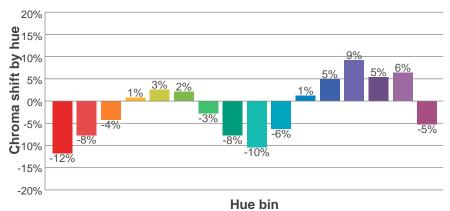
Gamut index Rg

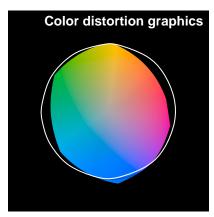


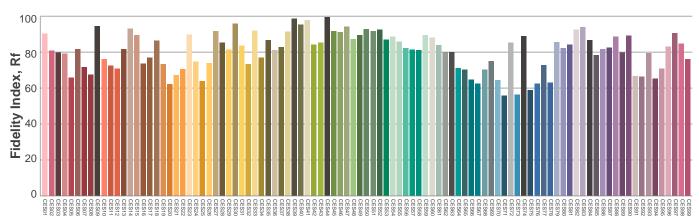








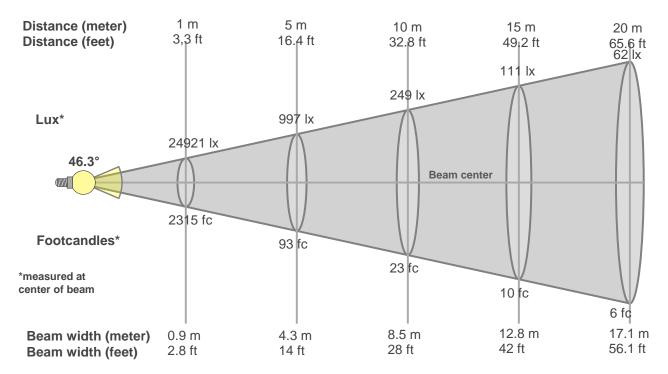




Color Evaluation Sample



Beam Details MAC Encore Wash CLD – Wide



Beam width:

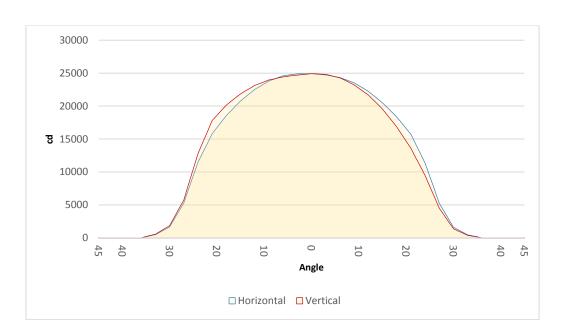
Beam luminous intensity formula:

w = 0.9 * distance

lux = $24921 / (distance^2)$ (where distance is in meters) fc = $24921 / (distance^2)$ (where distance is in feet)

Beam illuminance from 1-20m

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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
24921lx	6230lx	2769lx	1558lx	997lx	692lx	509lx	389lx	308lx	249lx	206lx	173lx	147lx	127lx	111lx	97lx	86lx	771x	69lx	62lx
2315.3fc	578.8fc	257.3fc	144.7fc	92.6fc	64.3fc	47.3fc	36.2fc	28.6fc	23.2fc	19.1fc	16.1fc	13.7fc	11.8fc	10.3fc	9fc	8fc	7.1fc	6.4fc	5.8fc

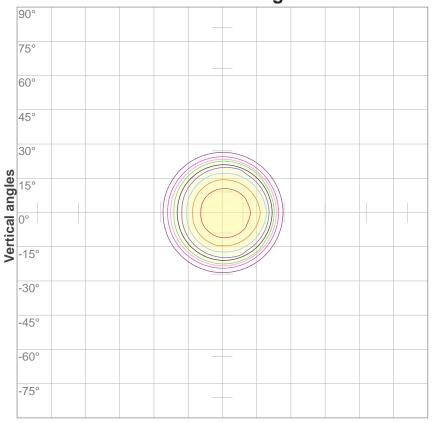


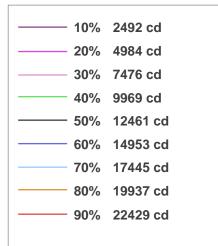
Beam angle 50%	Field angle 10%	Cutoff angle 3%
46.3°	58.5°	65.2°



ISO Diagrams MAC Encore Wash CLD – Wide

ISO candela diagram





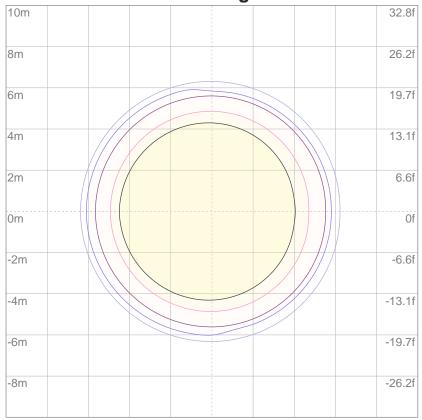
Conditions:

Number of c-planes: 4

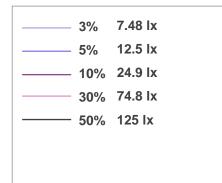
Candela at center: 24921 cd

Horizontal angles

ISO lux diagram



Throw Distance: 10 meters (33 feet)



Conditions:

Number of c-planes: 4 Lux at center: 249 lx

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