

## **Photometric Report**

### MAC Encore Wash CLD - Narrow

### Martin Professional R&D Optical Laboratory, 01-Nov-17 11:15:51

### **General Specifications:**

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

Efficacy: 19 Lumen/Watt Lens Option: Fresnel Lens

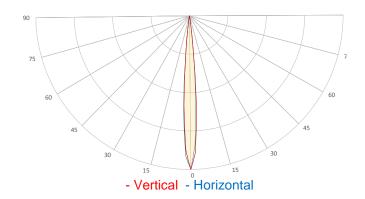
Zoomrange: 14-60°

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

Color Temperature: 6000 K



### Measurement



Catalog Number: 90234045 Measured Output: 10755 Im Measured Peak: 458419 cd Consumed Power: 590 W Efficacy: 18.2 Lumen/Watt

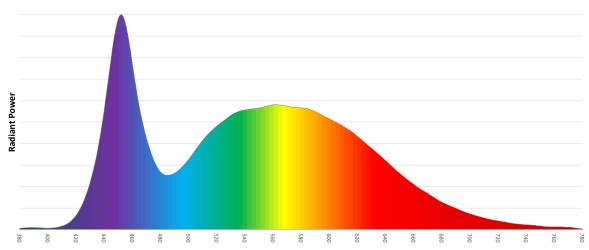
Beam Angle (50%): 8.8° Field Angle (10%): 14.9° Cuttoff Angle (3%): 18.8°

**Measurement Condition:** 

Ambient Temperature: 25 +/- 5C

AC Supply: 230V/50Hz

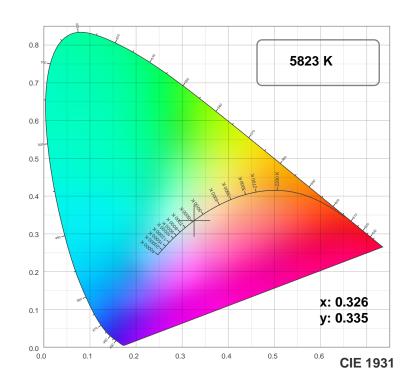


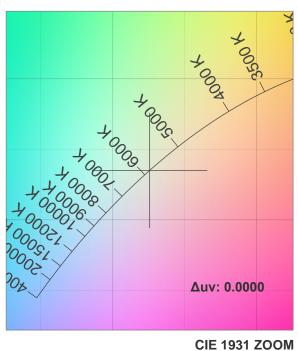




## **Chromaticity**

## MAC Encore Wash CLD - Narrow

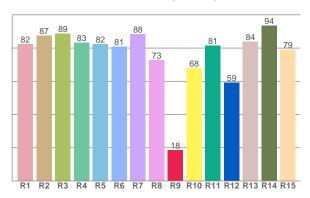




TM30: 80.5

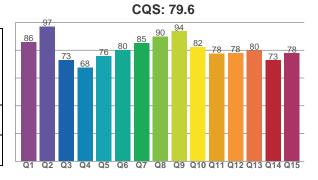
81 82 83 92 92 85 82 84 86 84 85 75 75 75 66 67 69 67 73

CRI: 83.3 (R1-R8)



**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	



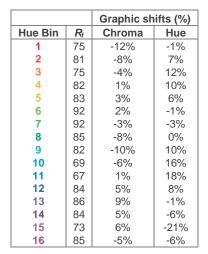
# TM30 MAC Encore Wash CLD – Narrow

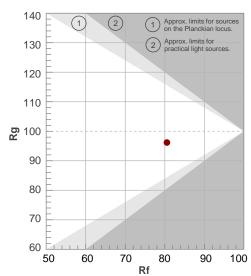
Rf 80.5

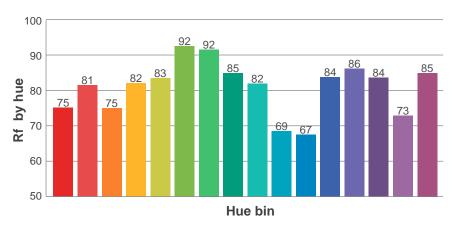
Fidelity index Rf

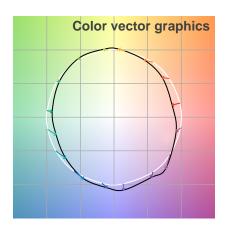
Rg 96.2

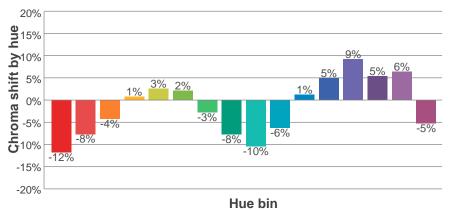
Gamut index Rg

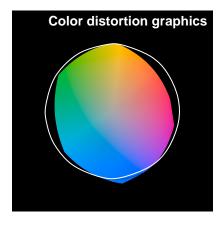


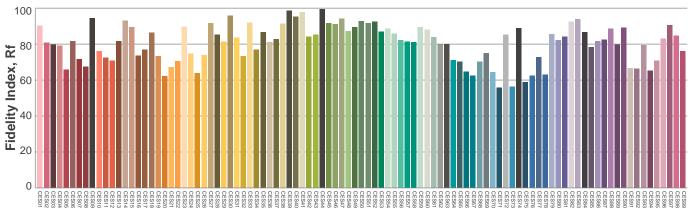






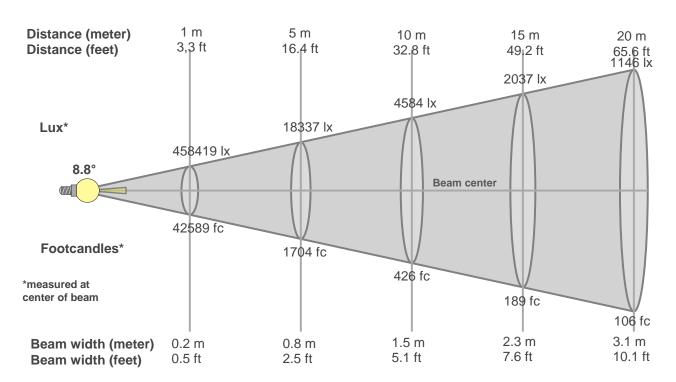






**Color Evaluation Sample** 

# Beam Details MAC Encore Wash CLD – Narrow



Beam width:

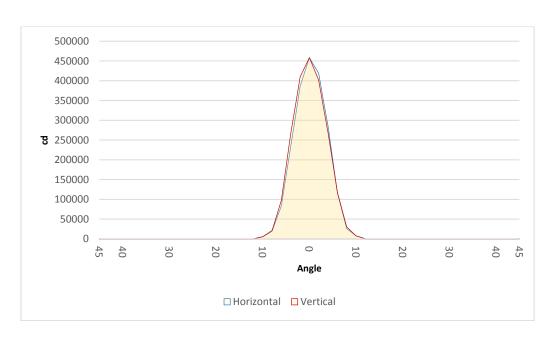
Beam luminous intensity formula:

w = 0.2 \* distance

lux =  $458419 / (distance^2)$  (where distance is in meters) fc =  $458419 / (distance^2)$  (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
3.311	0.011	9.011	13.111	10.411	19.711	2311	20.211	29.511	32.011	30.111	39.411	42.710	45.511	45.211	32.311	33.011	39.111	02.311	05.011
458419lx	114605lx	50935lx	28651lx	18337lx	12734lx	9355lx	7163lx	5659lx	4584lx	3789lx	3183lx	2713lx	2339lx	2037lx	1791lx	1586lx	1415lx	1270lx	1146lx
42588.5fc	10647.1fc	4732.1fc	2661.8fc	1703.5fc	1183fc	869.2fc	665.4fc	525.8fc	425.9fc	352fc	295.8fc	252fc	217.3fc	189.3fc	166.4fc	147.4fc	131.4fc	118fc	106.5fc

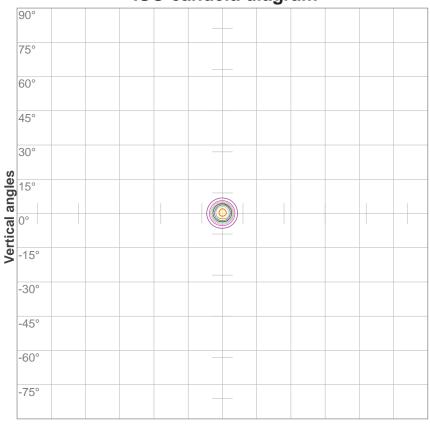


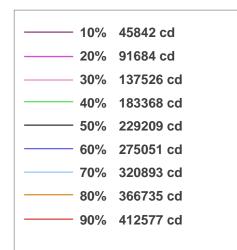
Beam angle 50%	Field angle 10%	Cutoff angle 3%
8.8°	14.9°	18.8°



# ISO Diagrams MAC Encore Wash CLD – Narrow

## ISO candela diagram





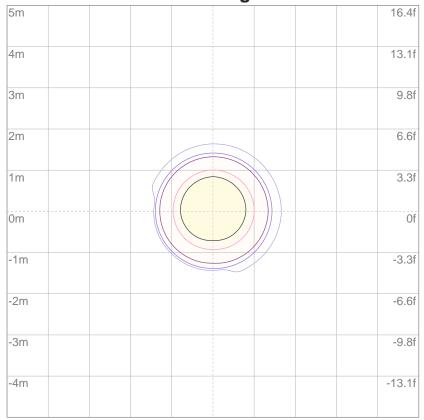
### **Conditions:**

Number of c-planes: 4

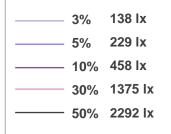
Candela at center: 458419 cd

### **Horizontal angles**

## ISO lux diagram



Throw Distance: 10 meters (33 feet)



#### **Conditions:**

Number of c-planes: 4 Lux at center: 4584 lx

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