

Photometric Report

MAC Encore Wash CLD - Medium

Martin Professional R&D Optical Laboratory, 01-Nov-17 11:17:30

General Specifications:

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

Efficacy: 19 Lumen/Watt Lens Option: Fresnel Lens

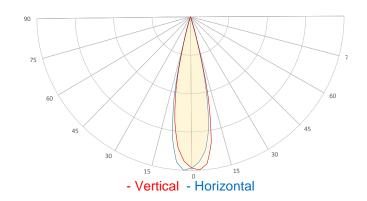
Zoomrange: 14-60°

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

Color Temperature: 6000 K



Measurement



Catalog Number: 90234045 Measured Output: 11075 Im Measured Peak: 80107 cd Consumed Power: 590 W Efficacy: 18.8 Lumen/Watt

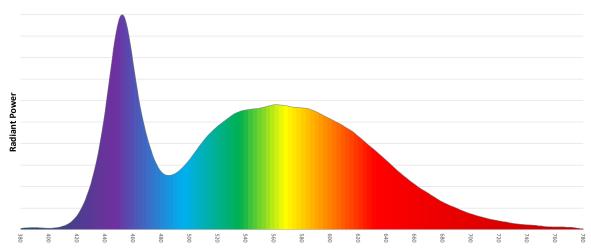
Beam Angle (50%): 23.8° Field Angle (10%): 32.7° Cuttoff Angle (3%): 36.1°

Measurement Condition:

Ambient Temperature: 25 +/- 5C

AC Supply: 230V/50Hz

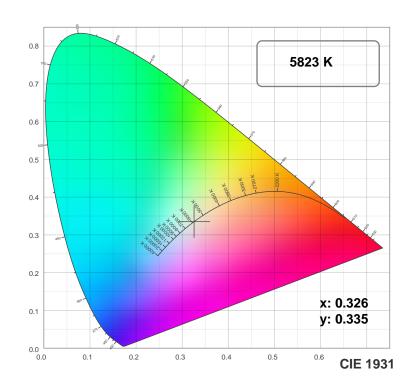


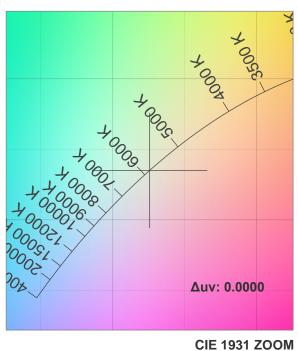




Chromaticity

MAC Encore Wash CLD - Medium

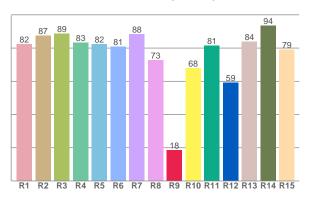




TM30: 80.5

81 82 83 92 92 85 82 84 86 84 85 75 75 75 66 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16

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	y u		Δuv	
70+	79.6	0.326	0.335	0.205	0.316	0.0000	



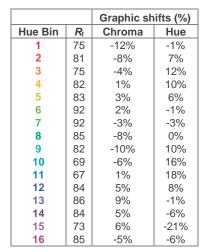
TM30 MAC Encore Wash CLD – Medium

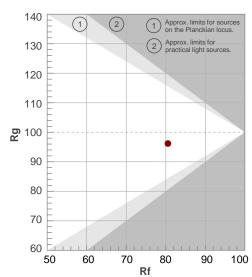
Rf 80.5

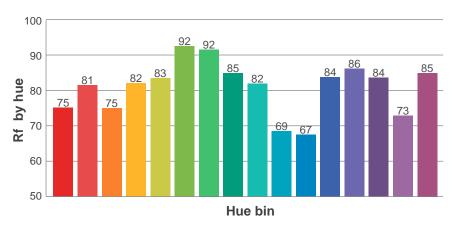
Fidelity index Rf

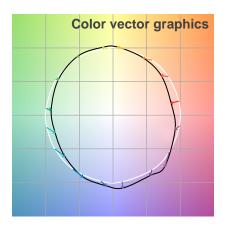
Rg 96.2

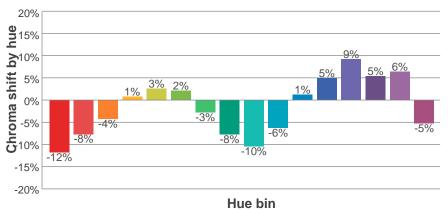
Gamut index Rg

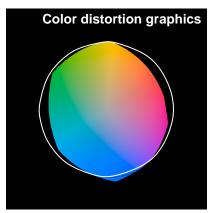


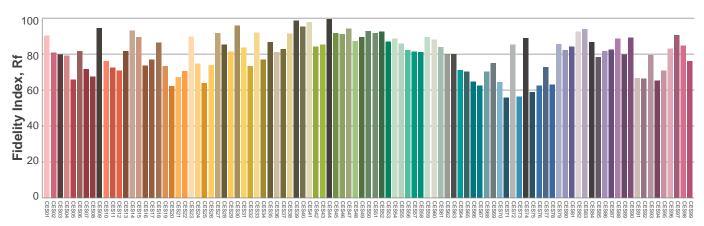






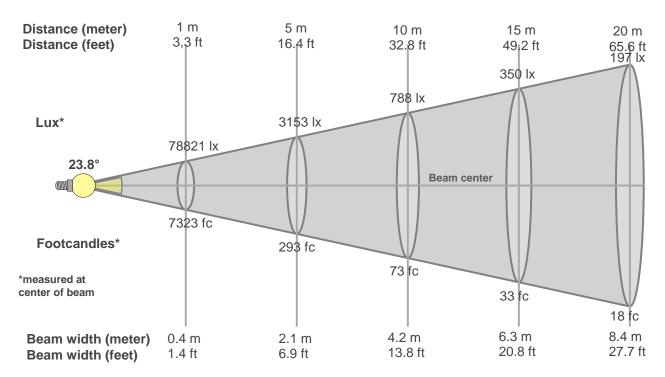






Color Evaluation Sample

Beam Details MAC Encore Wash CLD – Medium



Beam width:

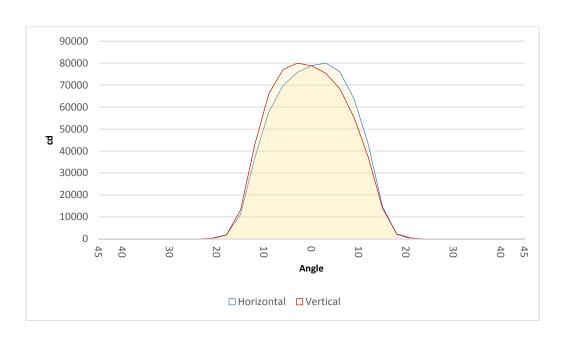
Beam luminous intensity formula:

w = 0.4 * distance

lux = $78821 / (distance^2)$ (where distance is in meters) fc = $78821 / (distance^2)$ (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
78821lx	19705lx	8758lx	4926lx	3153lx	2189lx	1609lx	1232lx	973lx	788lx	651lx	547lx	466lx	402lx	350lx	308lx	273lx	243lx	218lx	197lx
7322.7fc	1830.7fc	813.6fc	457.7fc	292.9fc	203.4fc	149.4fc	114.4fc	90.4fc	73.2fc	60.5fc	50.9fc	43.3fc	37.4fc	32.5fc	28.6fc	25.3fc	22.6fc	20.3fc	18.3fc

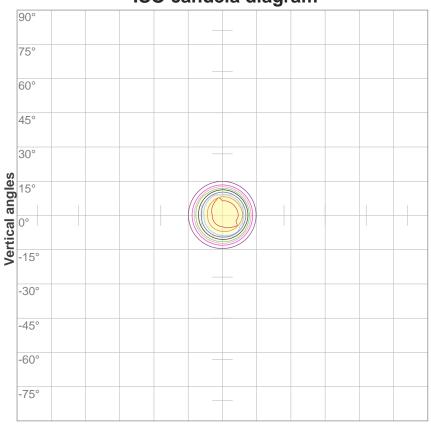


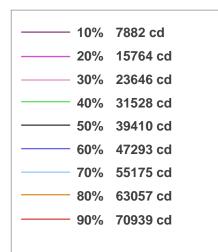
Beam angle 50%	Field angle 10%	Cutoff angle 3%
23.8°	32.7°	36.1°



ISO Diagrams MAC Encore Wash CLD – Medium

ISO candela diagram





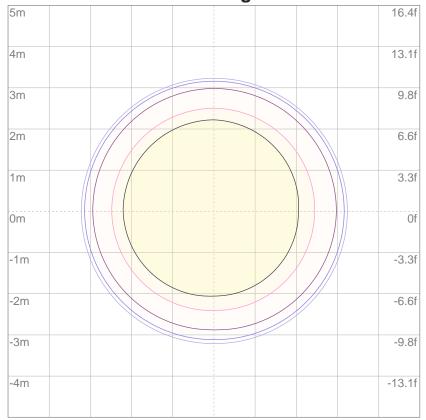
Conditions:

Number of c-planes: 4

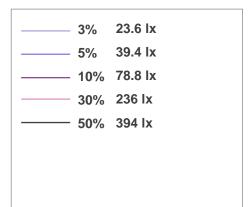
Candela at center: 78821 cd

Horizontal angles

ISO lux diagram







Conditions:

Number of c-planes: 4 Lux at center: 788 lx

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