

Photometric Report

MAC Encore Wash CLD - Narrow

Martin Professional R&D Optical Laboratory, 01-Nov-17 11:10:44

General Specifications:

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

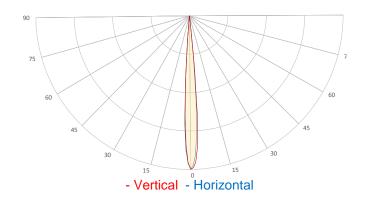
Efficacy: 21 Lumen/Watt Lens Option: PC Lens Zoomrange: 11-58°

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

Color Temperature: 6000 K



Measurement



Catalog Number: 90234045 Measured Output: 12321 Im Measured Peak: 742423 cd Consumed Power: 590 W Efficacy: 20.9 Lumen/Watt

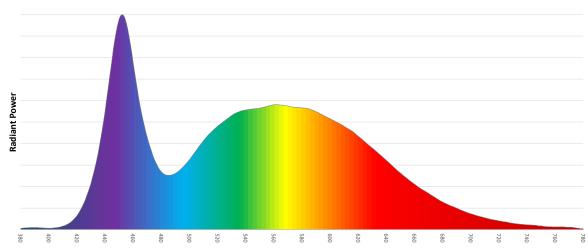
Beam Angle (50%): 8.1° Field Angle (10%): 11.4° Cuttoff Angle (3%): 13°

Measurement Condition:

Ambient Temperature: 25 +/- 5C

AC Supply: 230V/50Hz

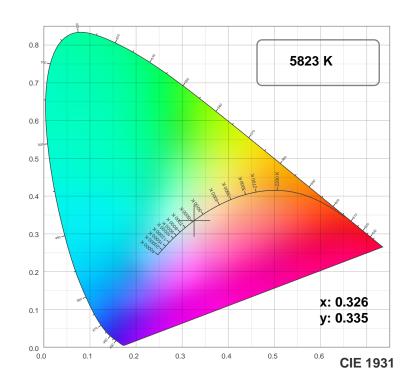


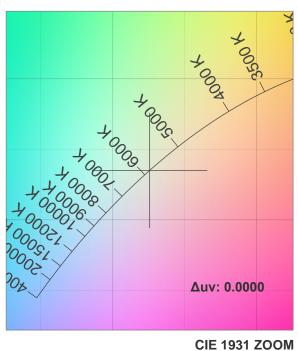




Chromaticity

MAC Encore Wash CLD - Narrow

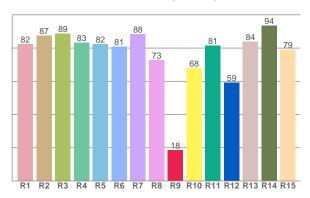




TM30: 80.5

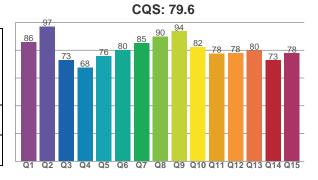
81 82 83 92 92 85 82 84 86 84 85 75 75 75 66 67 69 67 73

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	



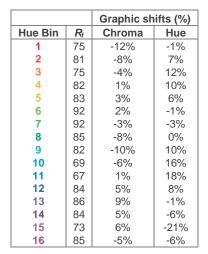
TM30 MAC Encore Wash CLD – Narrow

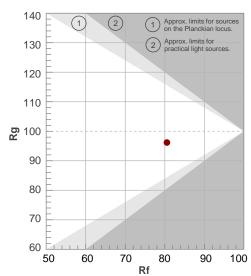
Rf 80.5

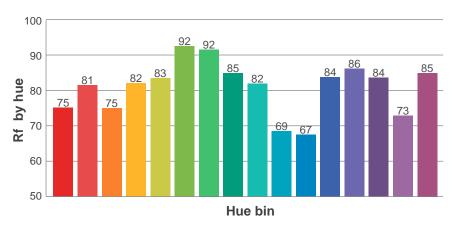
Fidelity index Rf

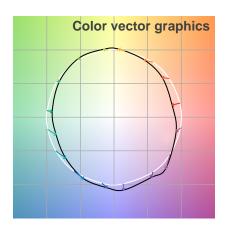
Rg 96.2

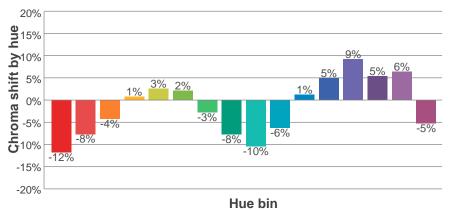
Gamut index Rg

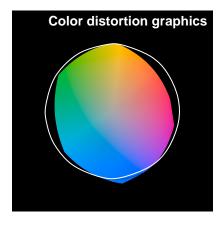


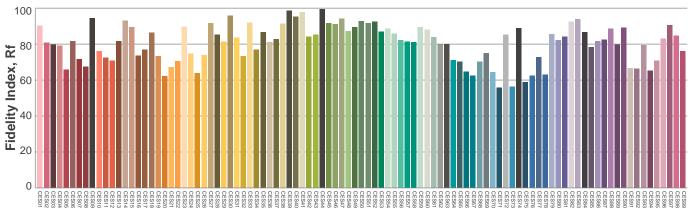








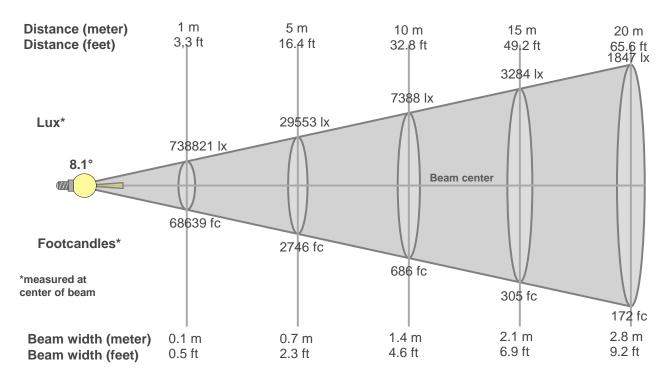




Color Evaluation Sample



Beam Details MAC Encore Wash CLD – Narrow



Beam width:

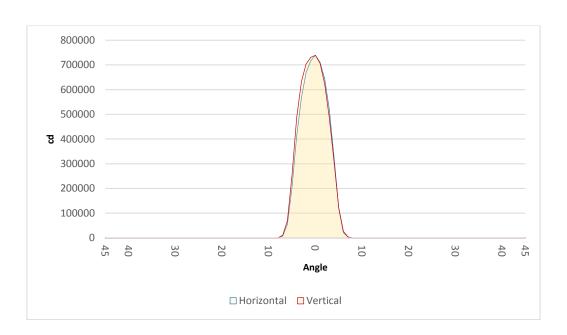
Beam luminous intensity formula:

w = 0.1 * distance

lux = $738821 / (distance^2)$ (where distance is in meters) fc = $738821 / (distance^2)$ (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
738821lx	184705lx	82091lx	46176lx	29553lx	20523lx	15078lx	11544lx	9121lx	7388lx	6106lx	5131lx	4372lx	3769lx	3284lx	2886lx	2556lx	2280lx	2047lx	1847lx
68638.8fc	17159.7fc	7626.5fc	4289.9fc	2745.6fc	1906.6fc	1400.8fc	1072.5fc	847.4fc	686.4fc	567.3fc	476.7fc	406.1fc	350.2fc	305.1fc	268.1fc	237.5fc	211.8fc	190.1fc	171.6fc

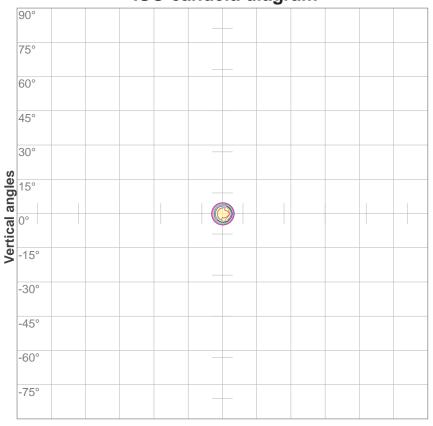


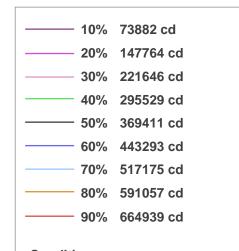
Beam angle 50%	Field angle 10%	Cutoff angle 3%			
8.1°	11.4°	13°			



ISO Diagrams MAC Encore Wash CLD – Narrow

ISO candela diagram





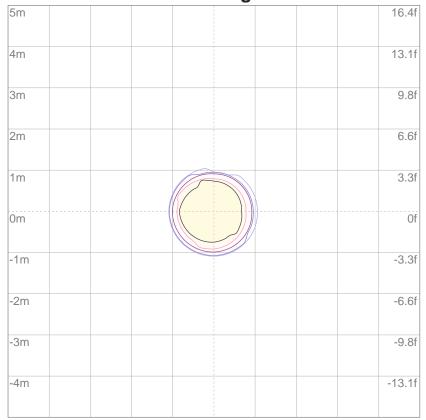
Conditions:

Number of c-planes: 4

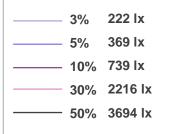
Candela at center: 738821 cd

Horizontal angles

ISO lux diagram



Throw Distance: 10 meters (33 feet)



Conditions:

Number of c-planes: 4 Lux at center: 7388 lx

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