

# Photometric Report

MAR-90356996 Exterior Linear 1210 QUAD Cove – Max

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

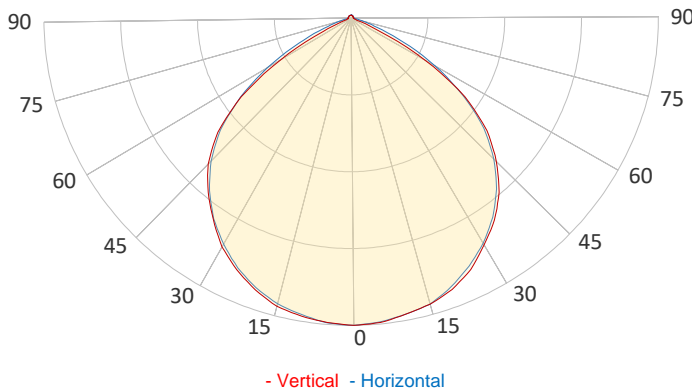
## GENERAL SPECIFICATIONS

Total Fixture Output:	3173 lm
Light Engine Output:	4268 lm
Efficacy:	38 lm/W
Lens Option:	Cove
Beam Angle (50%):	105°
Field Angle (10%):	134°
Cut-off Angle (3%):	147°
CRI:	73+
CQS:	87+
TM-30 Rf:	83+
TM-30 Rg:	105+
TLCI:	75+
Color Temperature:	Variable



## SAMPLE MEASUREMENT

POLAR PLOT

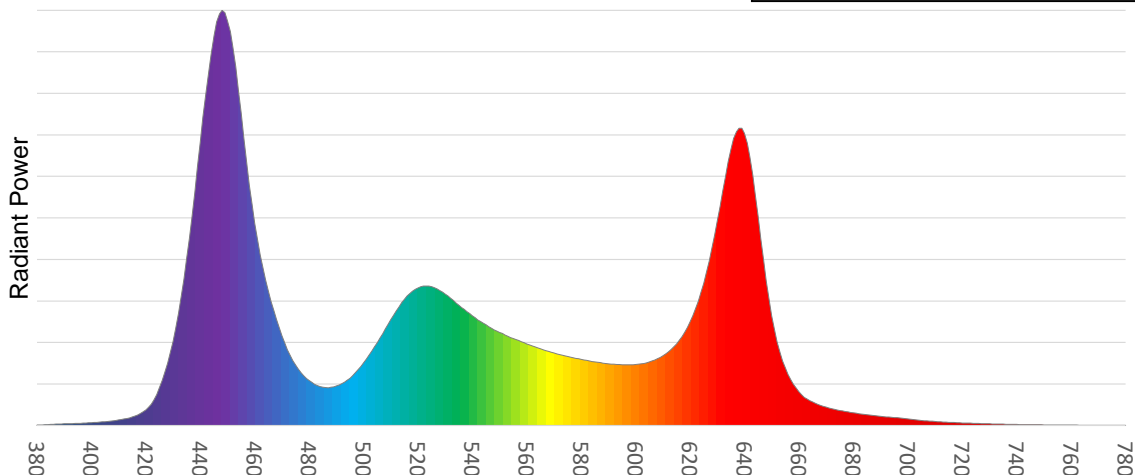


Catalog Number:	MAR-90356996
Measured Output:	3173 lm
Measured Peak:	1308 cd
Consumed Power:	75.9 W
Efficacy:	42.9 lm/W

Beam Angle (50%):	105.3°
Field Angle (10%):	135.6°
Cut-off Angle (3%):	147.7°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz
Fan Mode:	No Fan
Fixture Warm-up Time:	30 minutes

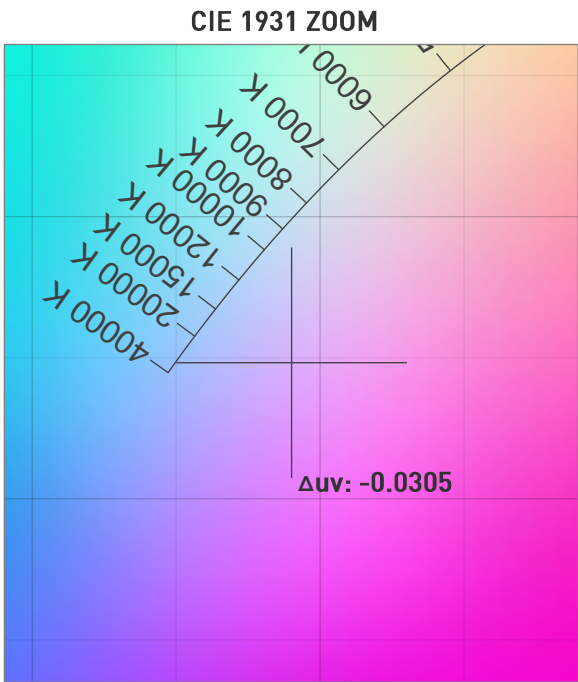
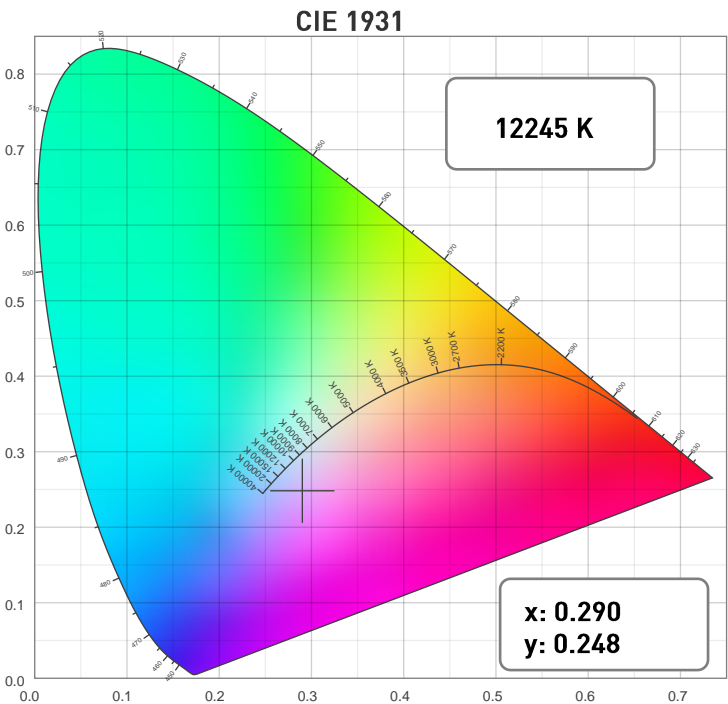
SPECTRAL DISTRIBUTION



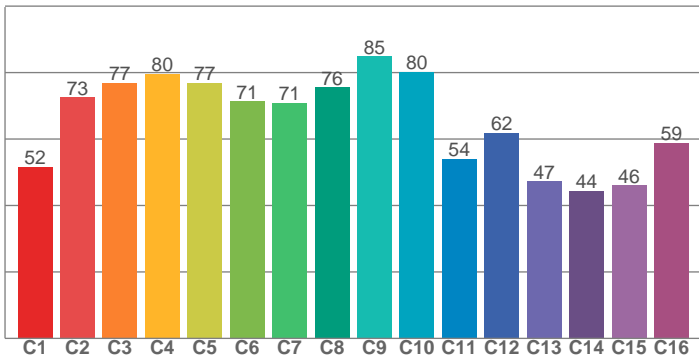
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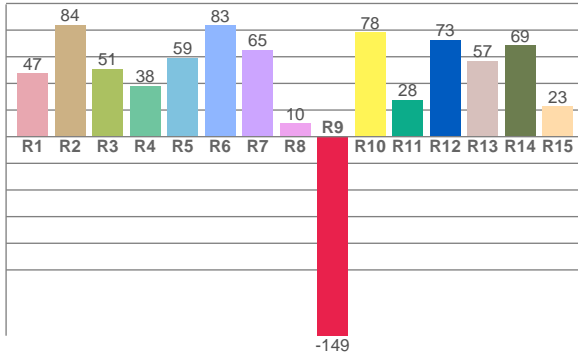
## CHROMATICITY



TM30: 68.6



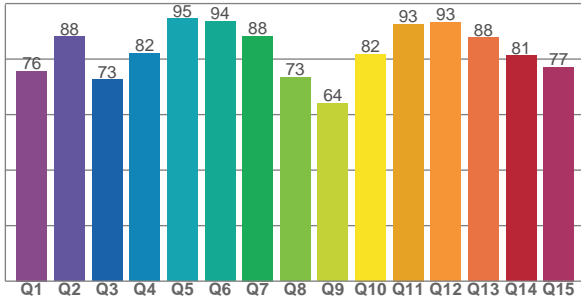
CRI: 54.8 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
12245 K	54.8	-149.4	68.6	123.6

CQS: 80.9



Television Lighting Consistency Index	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964	Color Deviation from Black Body
TLCI	CQS	x	y	u	v	Δuv
75+	80.9	0.290	0.248	0.215	0.276	-0.0305

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TM30

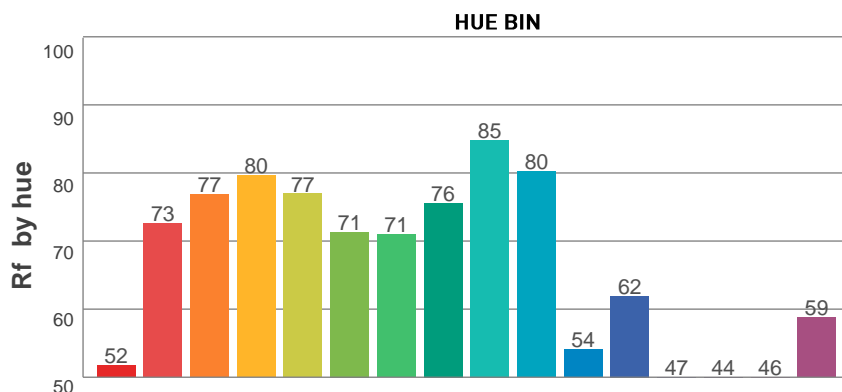
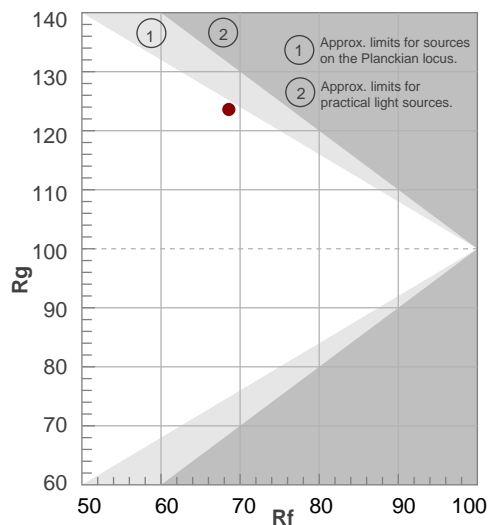
**Rf 68.6**

Fidelity index Rf

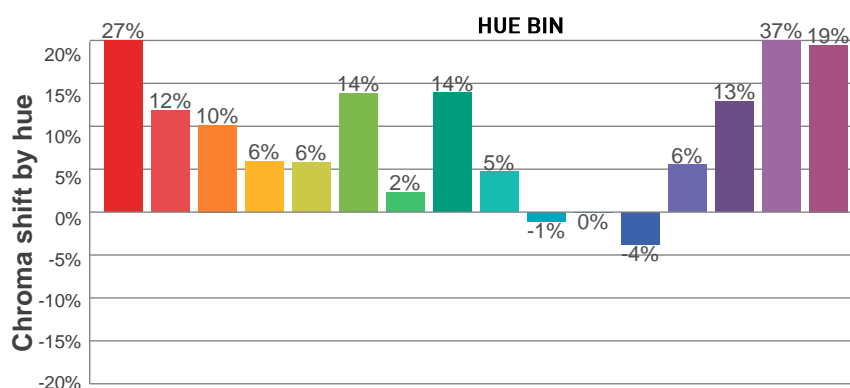
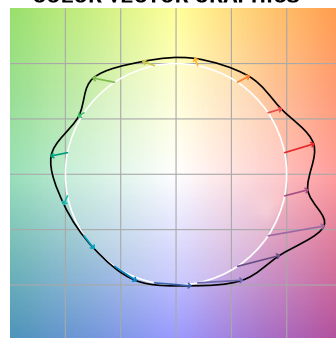
**Rg 123.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	52	27%	3%
2	73	12%	-4%
3	77	10%	-5%
4	80	6%	4%
5	77	6%	9%
6	71	14%	14%
7	71	2%	6%
8	76	14%	6%
9	85	5%	7%
10	80	-1%	14%
11	54	0%	23%
12	62	-4%	33%
13	47	6%	40%
14	44	13%	37%
15	46	37%	35%
16	59	19%	9%



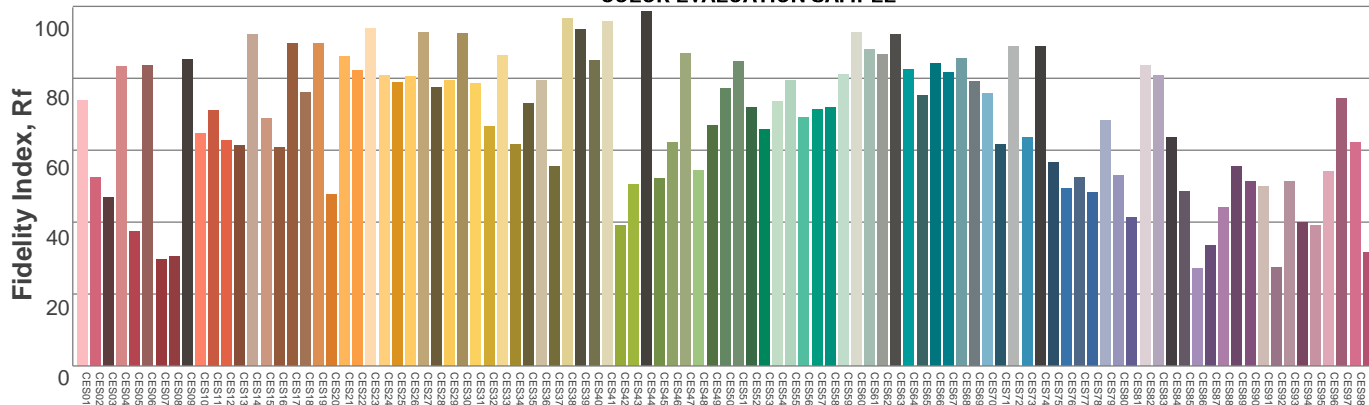
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



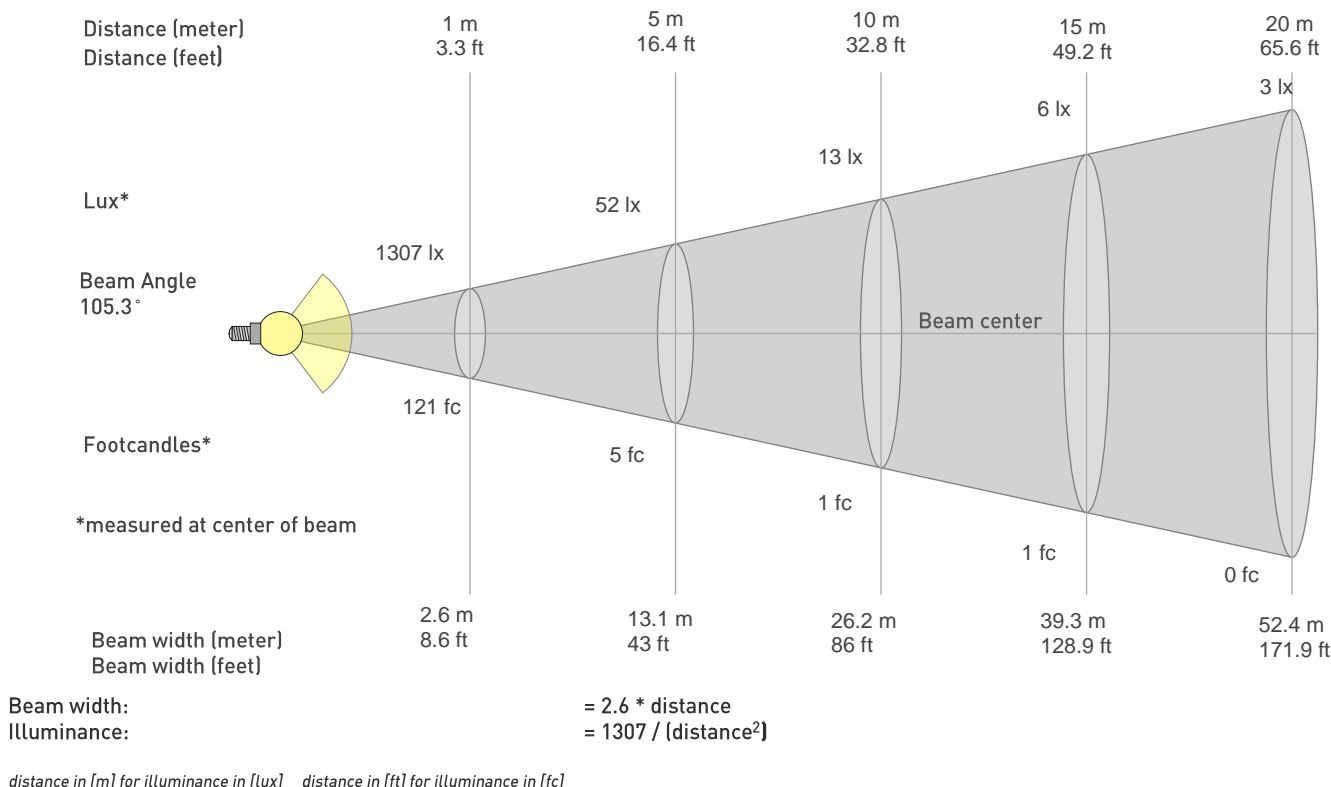
COLOR EVALUATION SAMPLE



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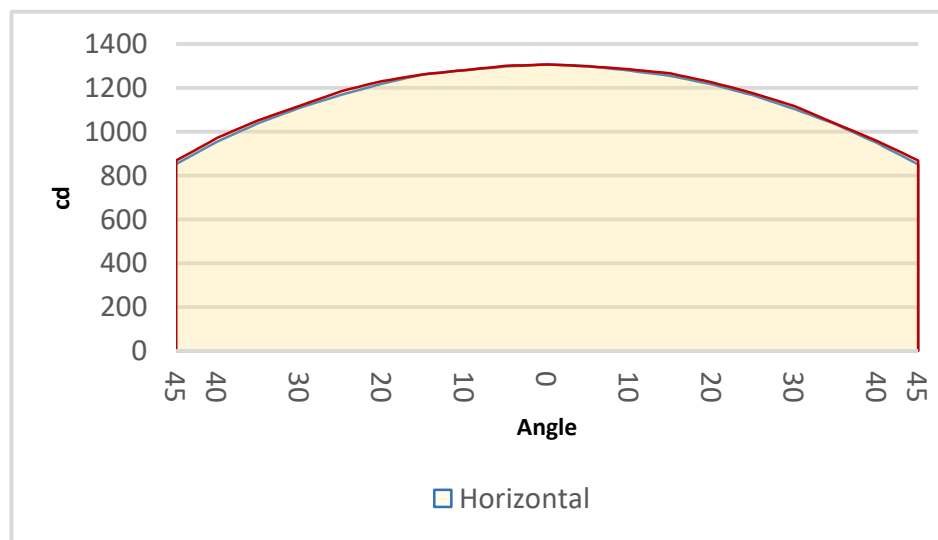
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## BEAM DETAILS



## 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
1307lx	327lx	145lx	82lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
121.4fc	30.3fc	13.5fc	7.6fc	4.9fc	3.4fc	2.5fc	1.9fc	1.5fc	1.2fc	1fc	0.8fc	0.7fc	0.6fc	0.5fc	0.5fc	0.4fc	0.4fc	0.3fc	0.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
105.3°	135.6°	147.7°