

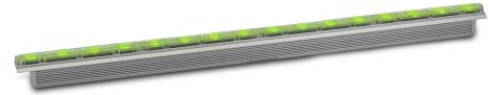
# Photometric Report

MAR-90356993 Exterior Linear 1210 QUAD Graze Narrow – Max

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

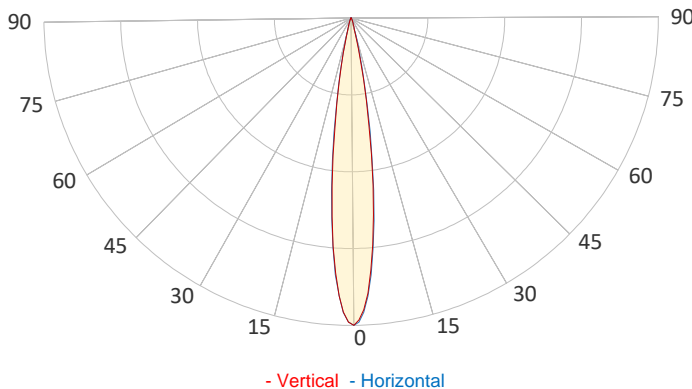
## GENERAL SPECIFICATIONS

Total Fixture Output:	2822 lm
Light Engine Output:	4268 lm
Efficacy:	34 lm/W
Lens Option:	Narrow
Beam Angle (50%):	15°
Field Angle (10%):	27°
Cut-off Angle (3%):	36°
CRI:	73+
CQS:	87+
TM-30 Rf:	83+
TM-30 Rg:	105+
TLCI:	75+
Color Temperature:	Variable



## SAMPLE MEASUREMENT

POLAR PLOT

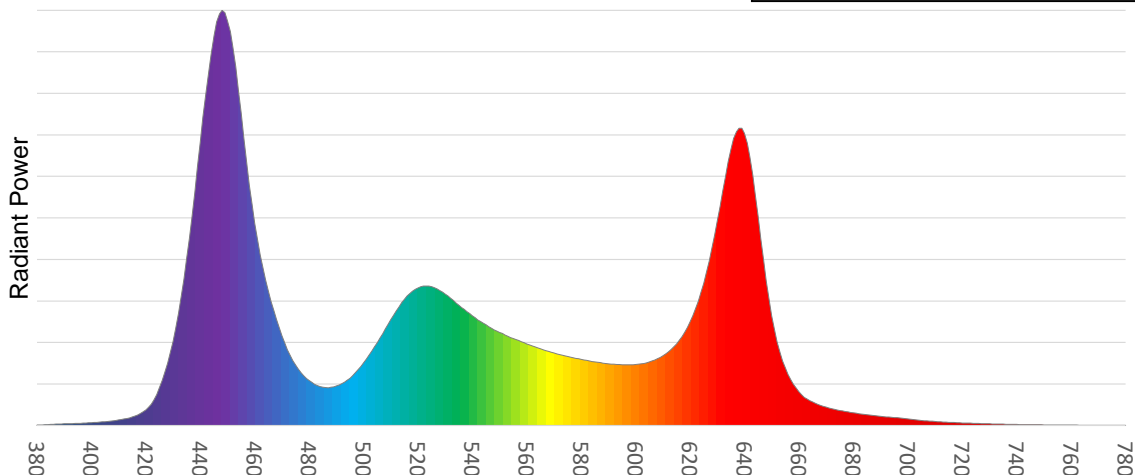


Catalog Number:	MAR-90356993
Measured Output:	2822 lm
Measured Peak:	30953 cd
Consumed Power:	75.9 W
Efficacy:	38.1 lm/W

Beam Angle (50%):	15.2°
Field Angle (10%):	26.8°
Cut-off Angle (3%):	36.2°

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

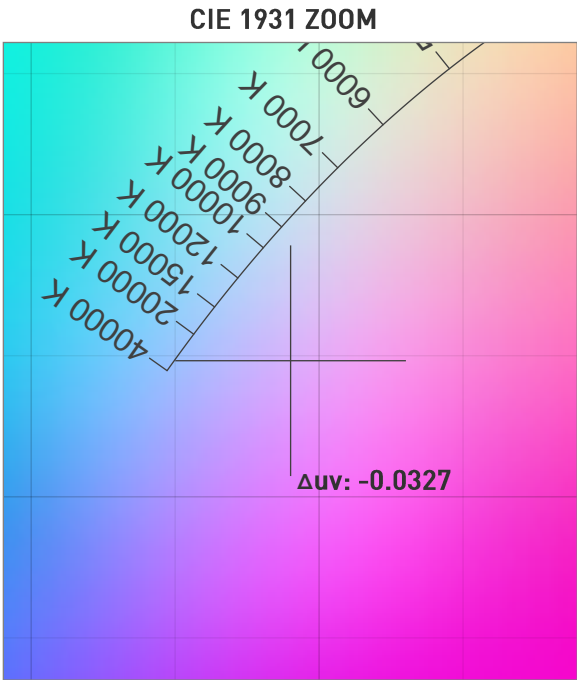
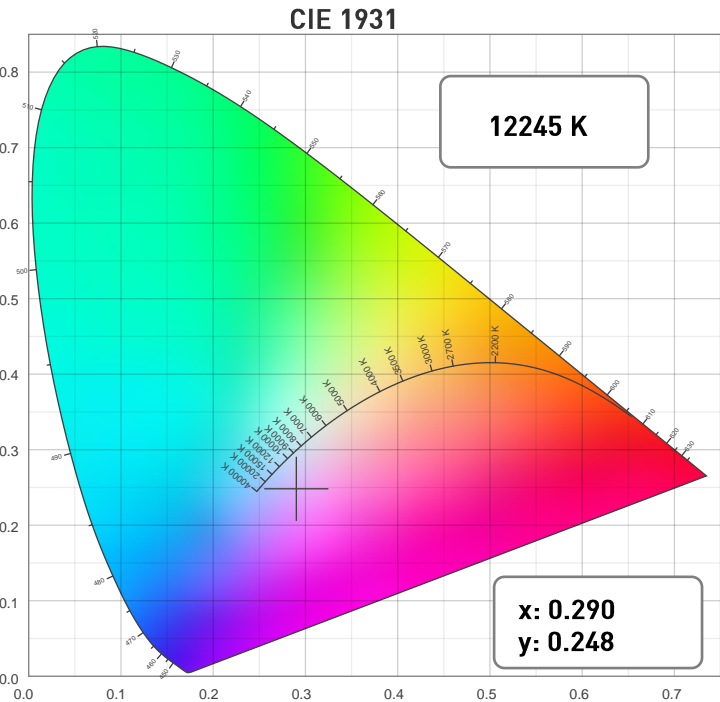
SPECTRAL DISTRIBUTION



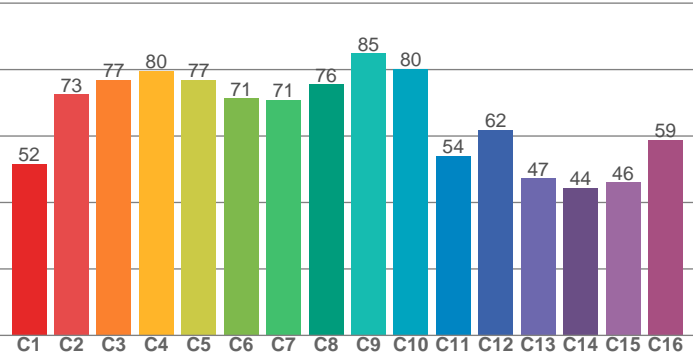
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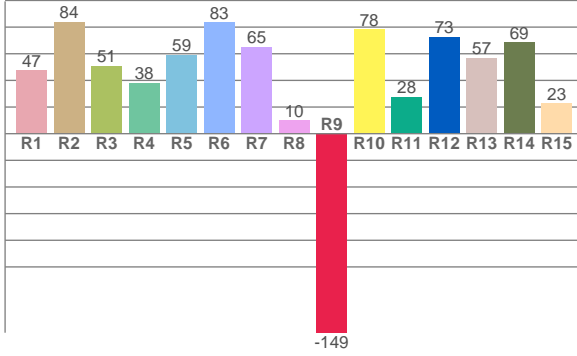
## CHROMATICITY



TM30: 68.6



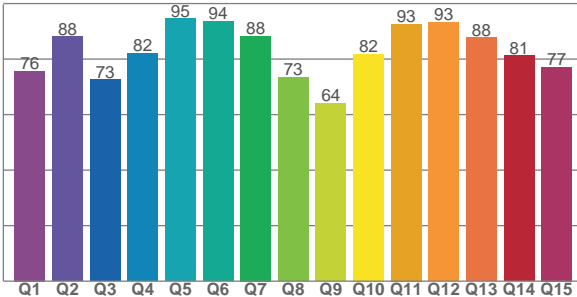
CRI: 54.8 (R1-R8)



### 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	$\Delta uv$
75+	80.9	0.290	0.248	0.215	0.276	-0.0327

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TM30

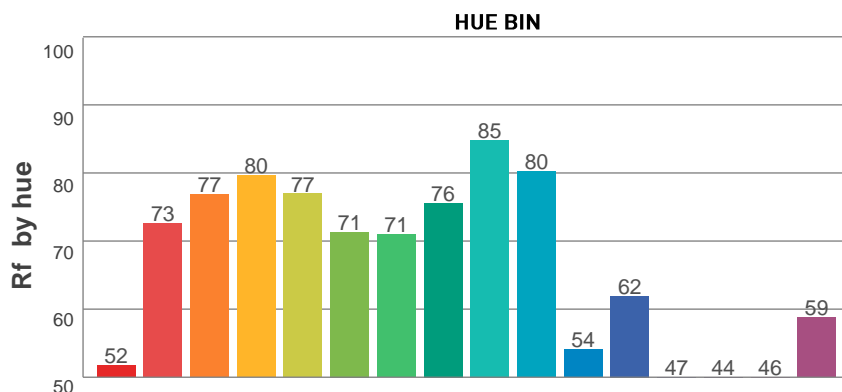
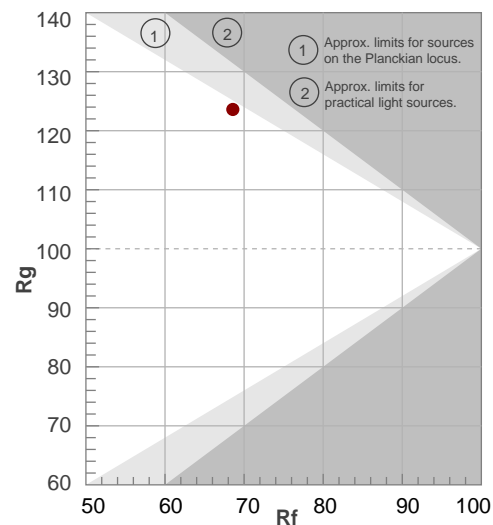
**Rf 68.6**

Fidelity index Rf

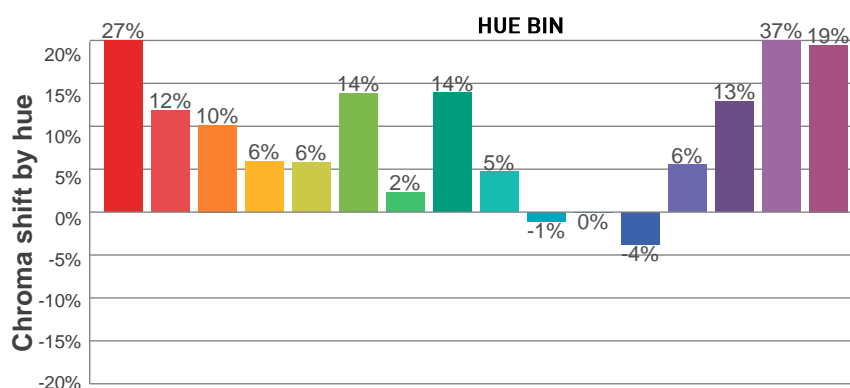
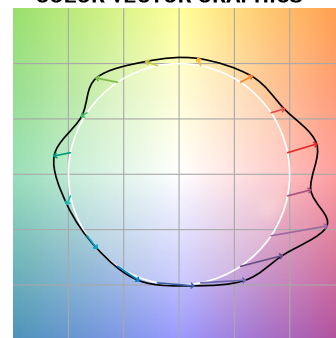
**Rg 123.6**

Gamut index Rg

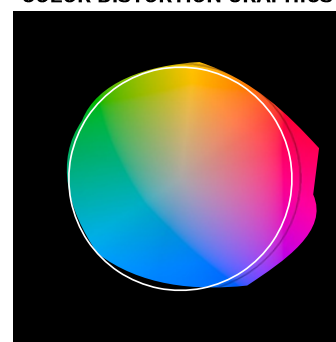
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	52	27%	3%
2	73	12%	-4%
3	77	10%	-5%
4	80	6%	4%
5	77	6%	9%
6	71	14%	14%
7	71	2%	6%
8	76	14%	6%
9	85	5%	7%
10	80	-1%	14%
11	54	0%	23%
12	62	-4%	33%
13	47	6%	40%
14	44	13%	37%
15	46	37%	35%
16	59	19%	9%



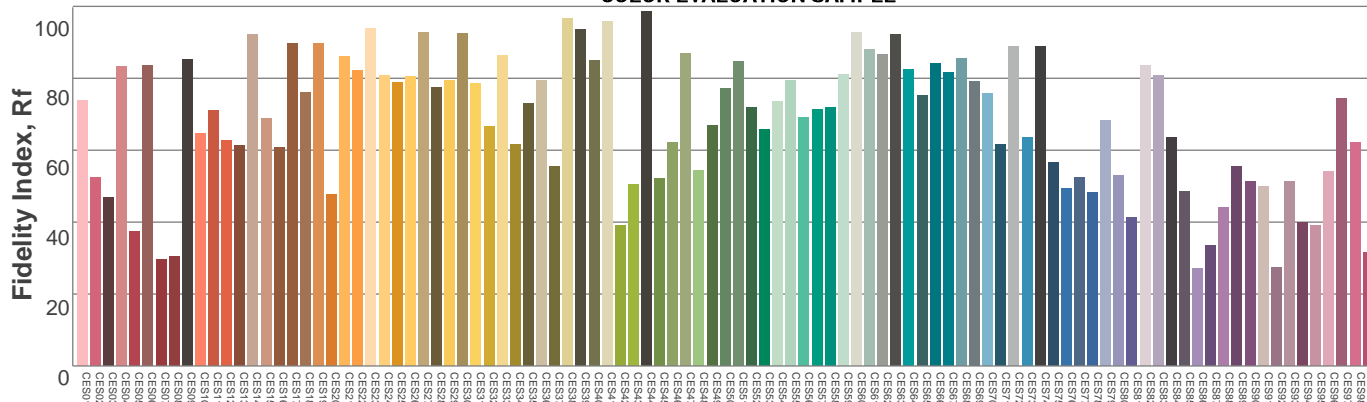
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



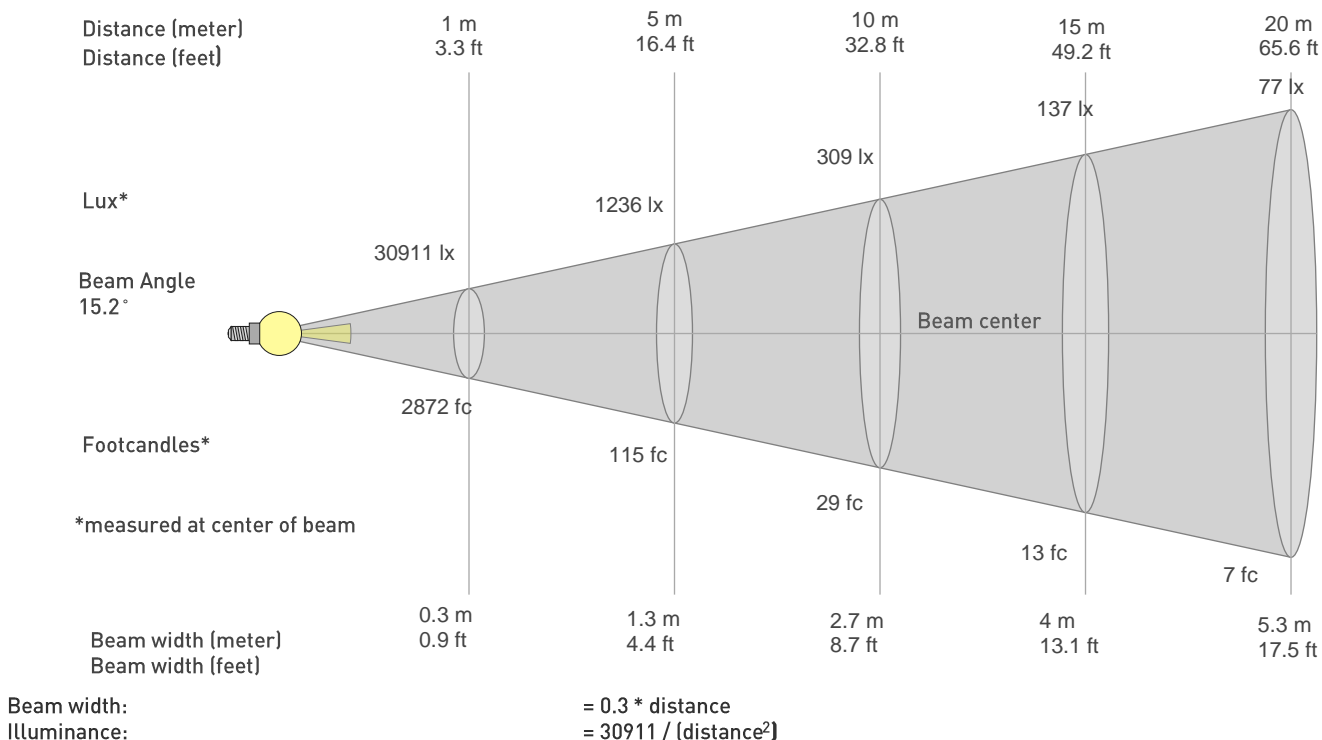
COLOR EVALUATION SAMPLE



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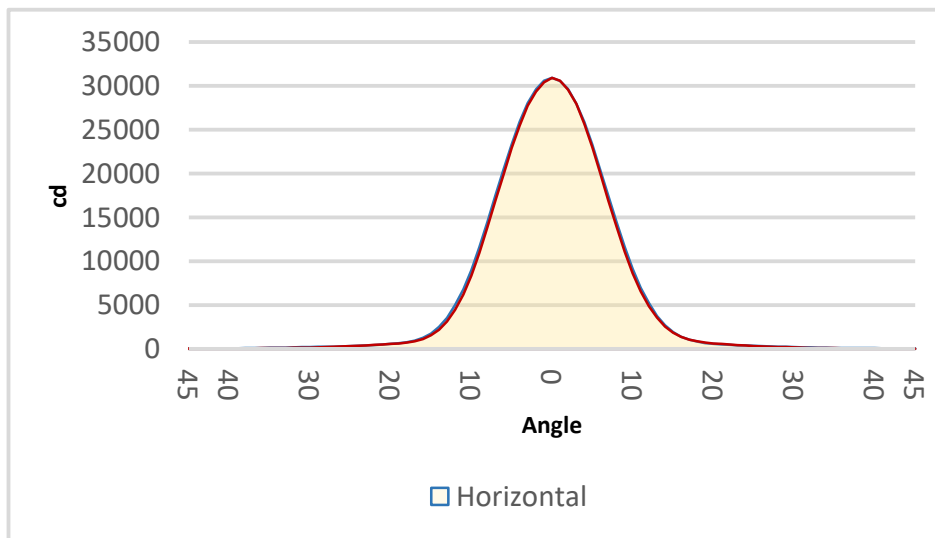
## BEAM DETAILS



distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

## 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
30911lx	7728lx	3435lx	1932lx	1236lx	859lx	631lx	483lx	382lx	309lx	255lx	215lx	183lx	158lx	137lx	121lx	107lx	95lx	86lx	77lx
2871.7fc	717.9fc	319.1fc	179.5fc	114.9fc	79.8fc	58.6fc	44.9fc	35.5fc	28.7fc	23.7fc	19.9fc	17fc	14.7fc	12.8fc	11.2fc	9.9fc	8.9fc	8fc	7.2fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
15.2°	26.8°	36.2°