

Photometric Report

MAR-90356990 Exterior Linear 310 QUAD Graze Narrow – Max

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

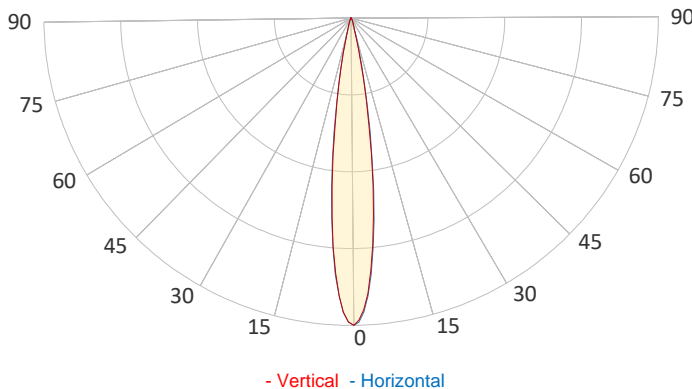
GENERAL SPECIFICATIONS

Total Fixture Output:	706 lm
Light Engine Output:	1067 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

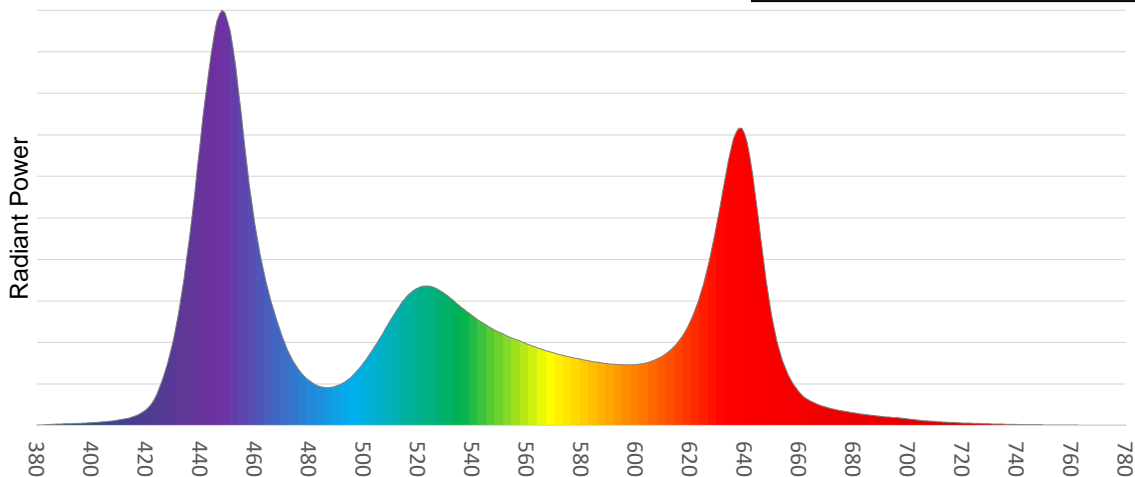


Catalog Number:	MAR-90356990
Measured Output:	706 lm
Measured Peak:	7744 cd
Consumed Power:	19.1 W
Efficacy:	37.8 lm/W

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

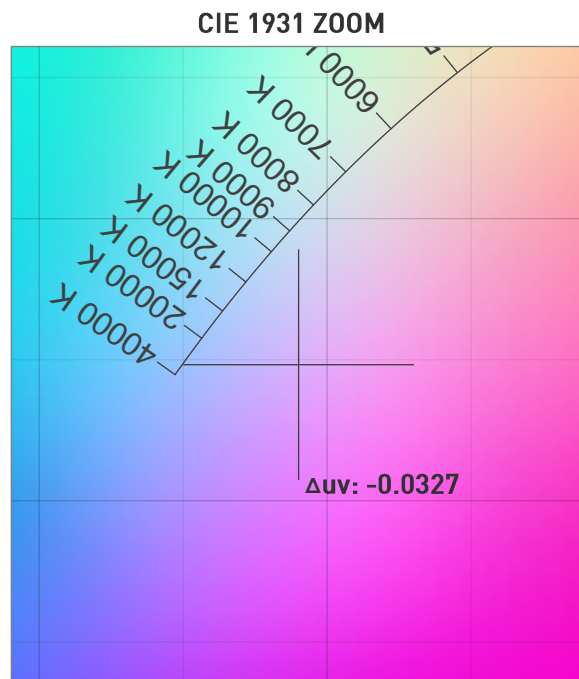
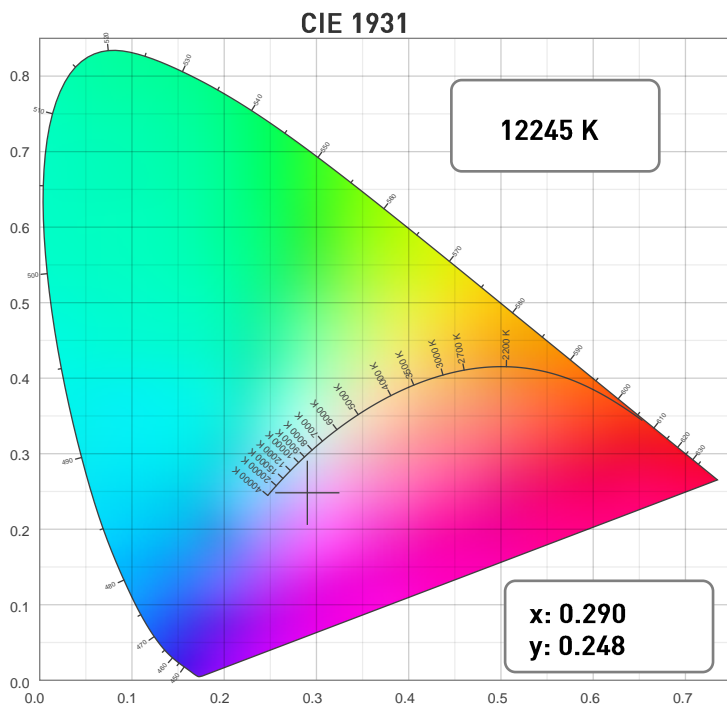
SPECTRAL DISTRIBUTION



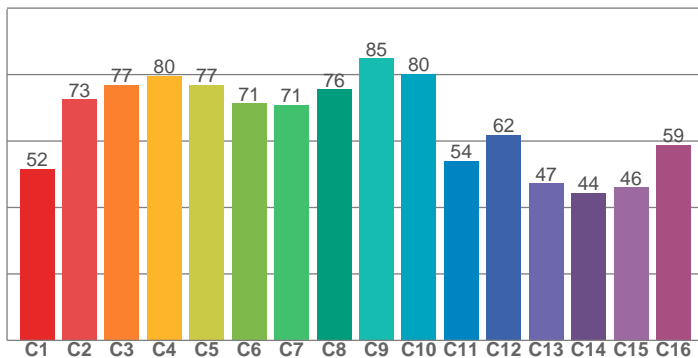
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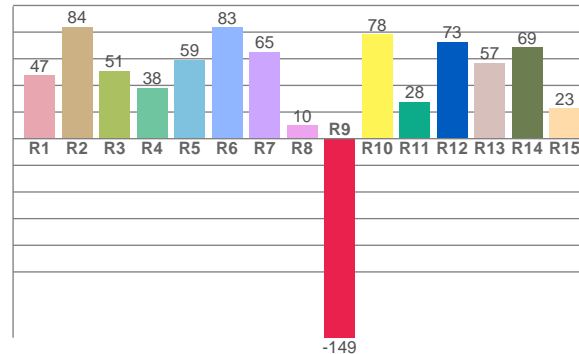
CHROMATICITY



TM30: 68.6



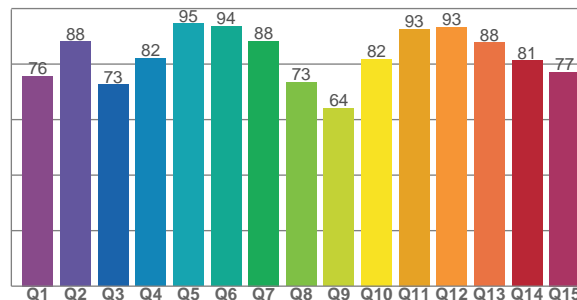
CRI: 54.8 (R1-R8)



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	Δuv
75+	80.9	0.290	0.248	0.215	0.276	-0.0327

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TM30

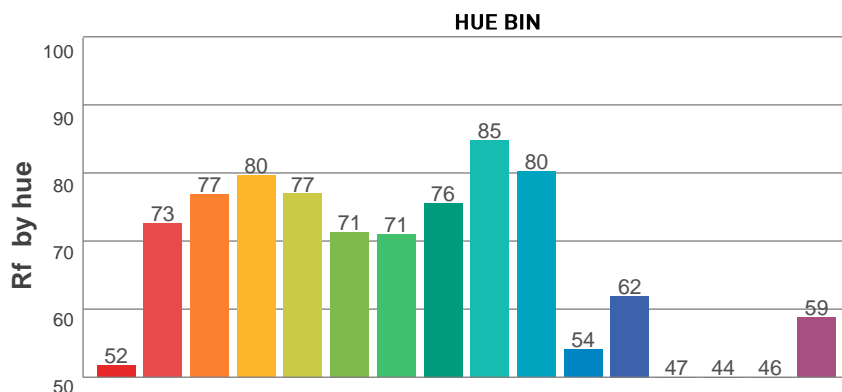
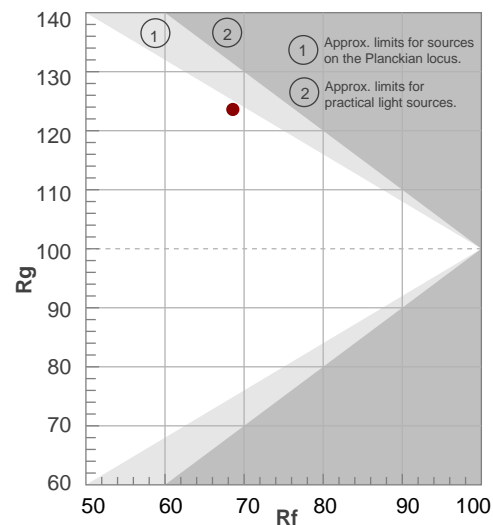
Rf 68.6

Fidelity index Rf

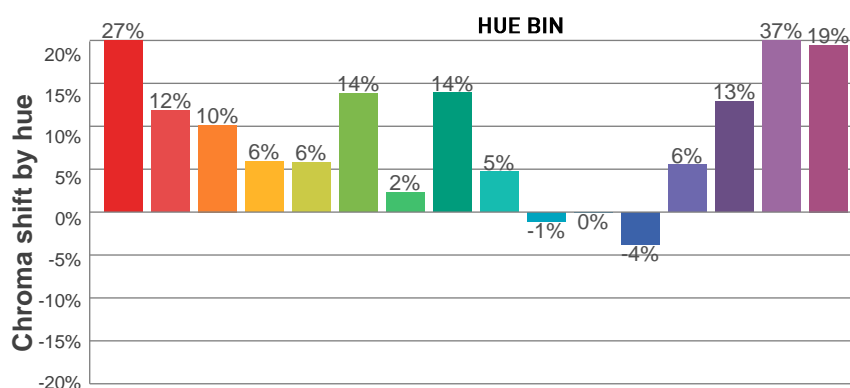
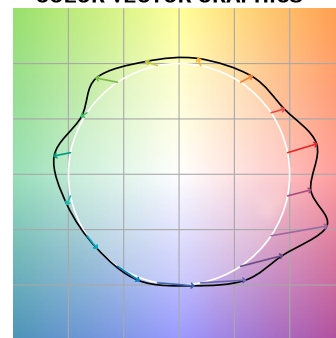
Rg 123.6

Gamut index Rg

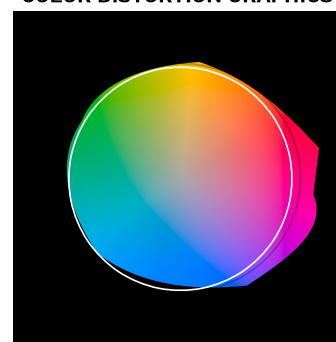
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	52	27%	3%
2	73	12%	-4%
3	77	10%	-5%
4	80	6%	4%
5	77	6%	9%
6	71	14%	14%
7	71	2%	6%
8	76	14%	6%
9	85	5%	7%
10	80	-1%	14%
11	54	0%	23%
12	62	-4%	33%
13	47	6%	40%
14	44	13%	37%
15	46	37%	35%
16	59	19%	9%



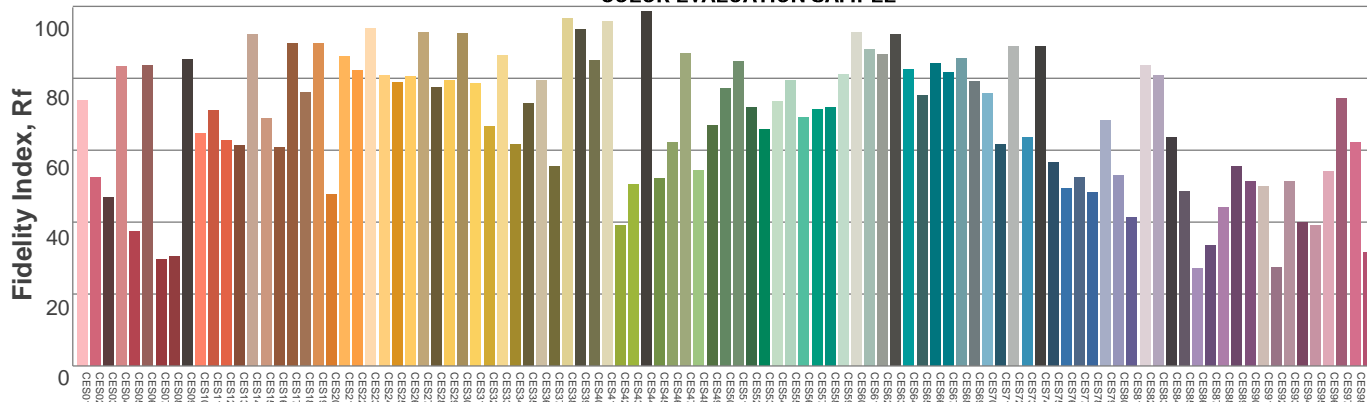
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



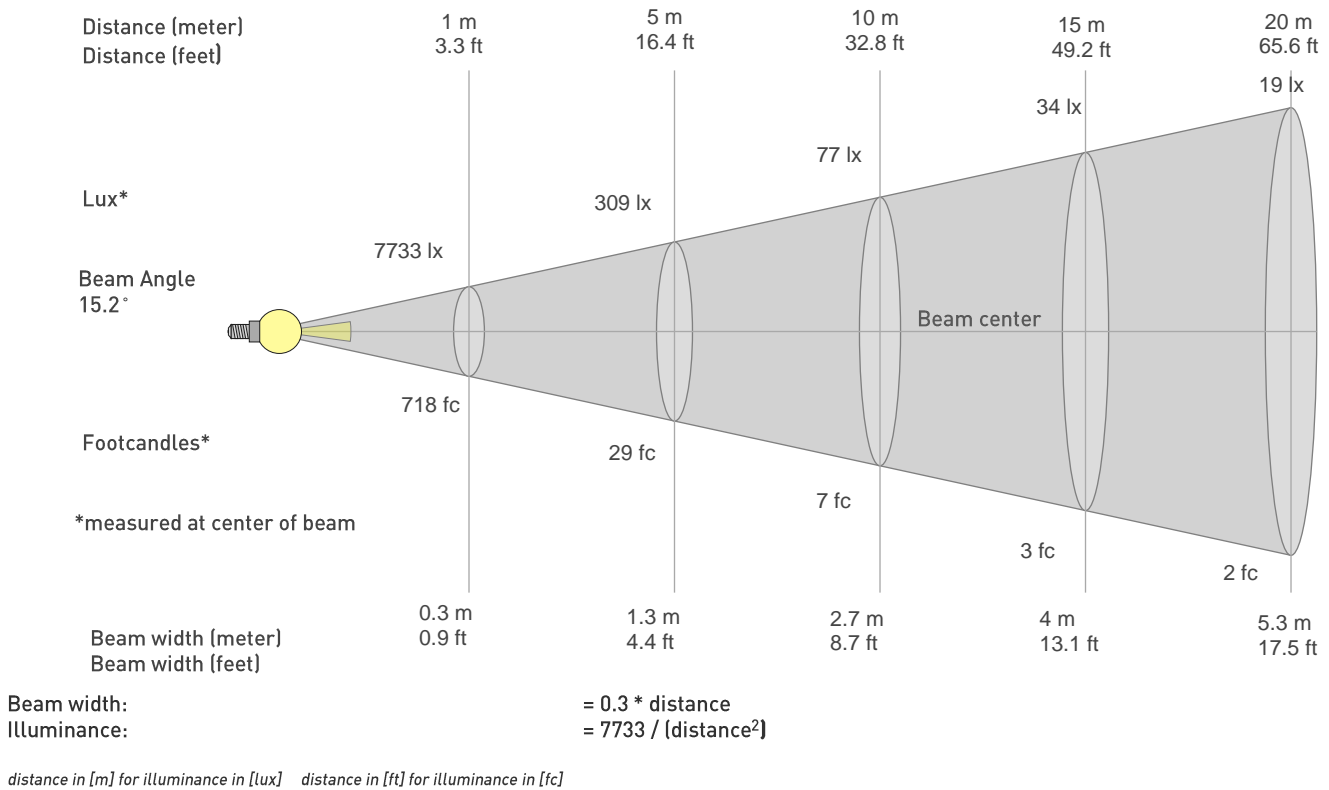
COLOR EVALUATION SAMPLE



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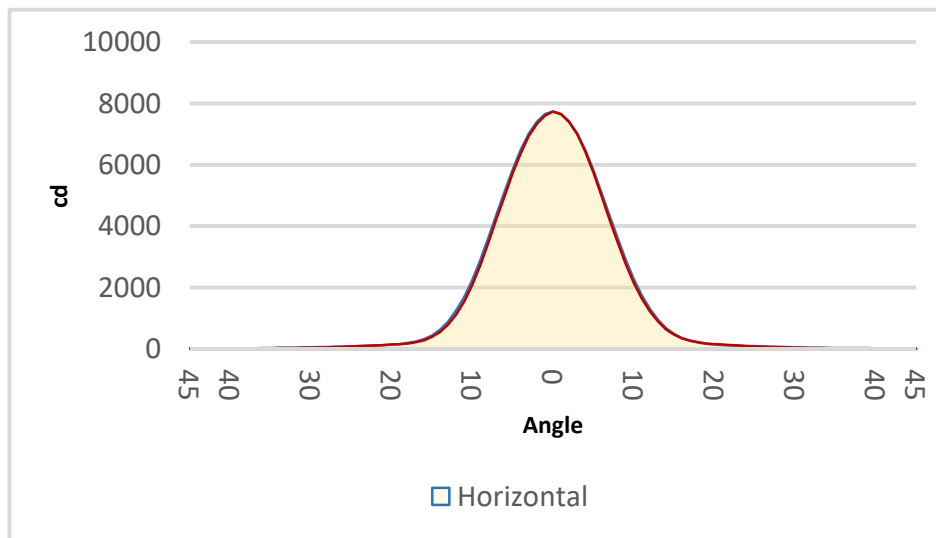
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BEAM DETAILS



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
7733lx	1933lx	859lx	483lx	309lx	215lx	158lx	121lx	95lx	77lx	64lx	54lx	46lx	39lx	34lx	30lx	27lx	24lx	21lx	19lx
718.4fc	179.6fc	79.8fc	44.9fc	28.7fc	20fc	14.7fc	11.2fc	8.9fc	7.2fc	5.9fc	5fc	4.3fc	3.7fc	3.2fc	2.8fc	2.5fc	2.2fc	2fc	1.8fc



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