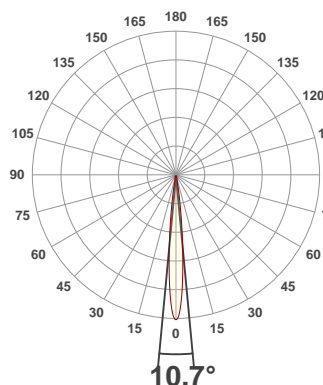


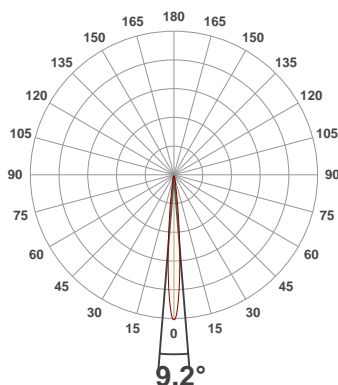
PRODUCT INFORMATION

SERIAL NUMBER:	VFR-210603-0021-MS
DATE OF MEASUREMENT:	2021-06-03
SIZE (l x w. x h):	298 mm x 71 mm x 59.5 mm

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



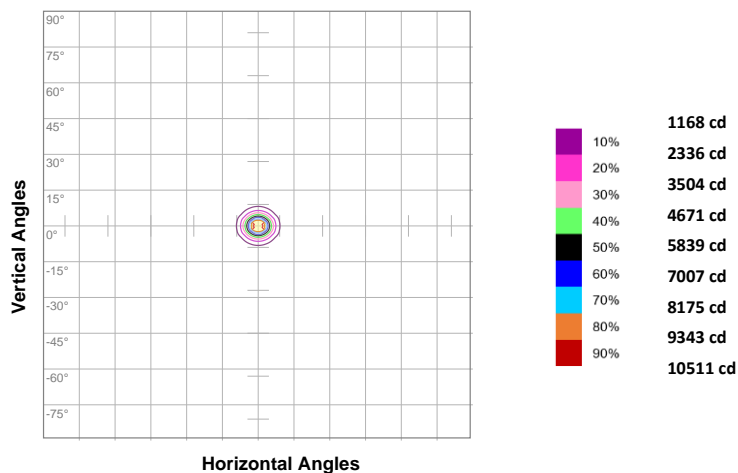
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	566 lm
EFFICACY:	39 lm/W
PEAK INTENSITY:	11696 cd
COLOR RENDERING INDEX (CRI):	79.3
COLOR TEMPERATURE (CCT):	3725K
FIDELITY INDEX (TM30rf):	80.6
GAMUT INDEX (TM30Rg):	97.8

BEAM OUTPUT DATA

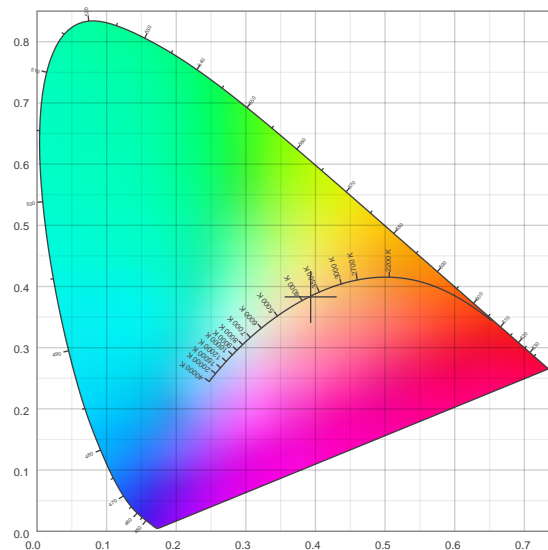
BEAM ANGLE (FWHM) C0/180:	10.7°
BEAM ANGLE (FWHM) C90/270:	9.2°
FIELD ANGLE (10%) C0/180:	20.4°
FIELD ANGLE (10%) C90/270:	18.2°
NUMBER OF PLANES MEASURED:	8

ISOCANDELA DIAGRAM

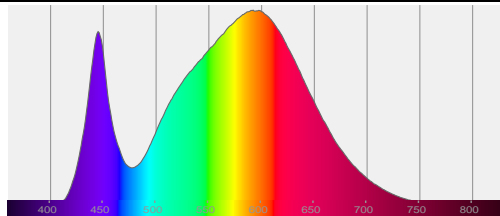


INPUT POWER:	14.7 W
POWER FACTOR:	1.0
OPTICAL POWER:	1.72 mW
PEAK WAVELENGTH:	592 nm
DOMINANT WAVELENGTH:	582 nm

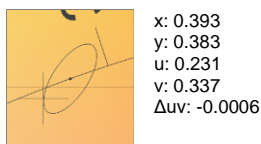
CIE 1931



SPECTRAL DISTRIBUTION



CIE 1931 ZOOM



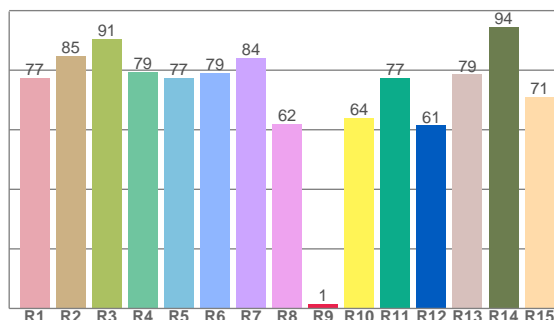
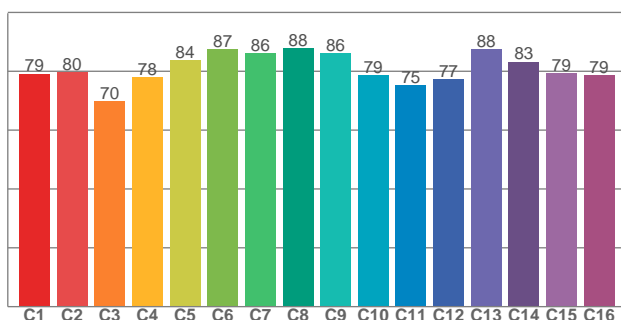
ZONAL LUMEN SUMMARY

0°-10° 383 lm	10°-20° 107 lm	20°-30° 48.7 lm	30°-40° 15.4 lm	40°-50° 7.56 lm	50°-60° 4.94 lm	60°-70° 0.759 lm	70°-80° 0.009 lm	80°-90° 0.003 lm
90°-100° 0.002 lm	100°-110° 0.002 lm	110°-120° 0.002 lm	120°-130° 0.002 lm	130°-140° 0.002 lm	140°-150° 0.002 lm	150°-160° 0.001 lm	160°-170° 0.001 lm	170°-180° 0.000 lm

COLOR DETAILS

TM30: 80.6

CRI: 79.3 (R1-R8)



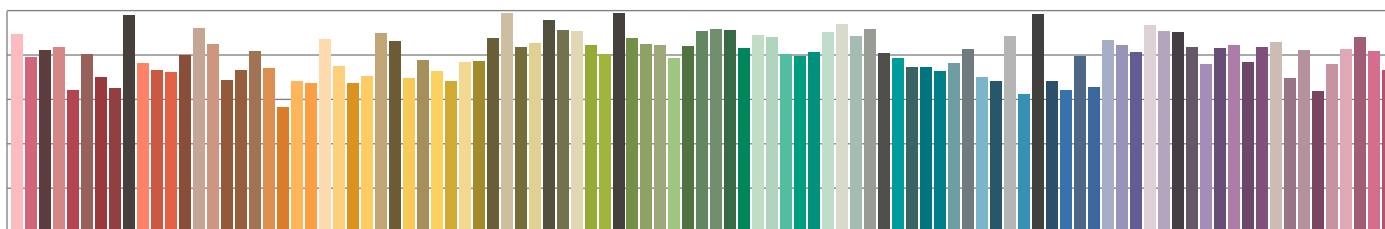
TM30 C values, 16 binned values out of total of 99 C values

CRI R values, only R1-R8 are used to calculate final CRI value

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.2	79.8	69.9	77.9	83.8	87.4	86.3	87.7	86.0	78.5	75.3	77.3	87.5	83.2	79.3	78.7

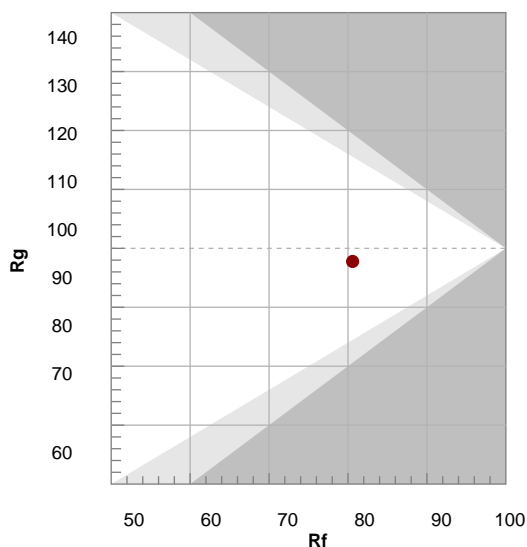
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
77.5	84.7	90.6	79.4	77.3	79.1	84.2	62.0	1.4	64.0	77.3	61.5	78.6	94.5	71.1

TM30 COLOR EVALUATION SAMPLE



TM30 DETAILS

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-13%	-3%
2	80	-9%	7%
3	70	-4%	16%
4	78	4%	14%
5	84	9%	8%
6	87	8%	-2%
7	86	1%	-9%
8	88	-4%	-6%
9	86	-9%	-2%
10	79	-11%	8%
11	75	-2%	17%
12	77	6%	11%
13	88	8%	2%
14	83	9%	-9%
15	79	2%	-14%
16	79	-5%	-13%



FIDELITY INDEX

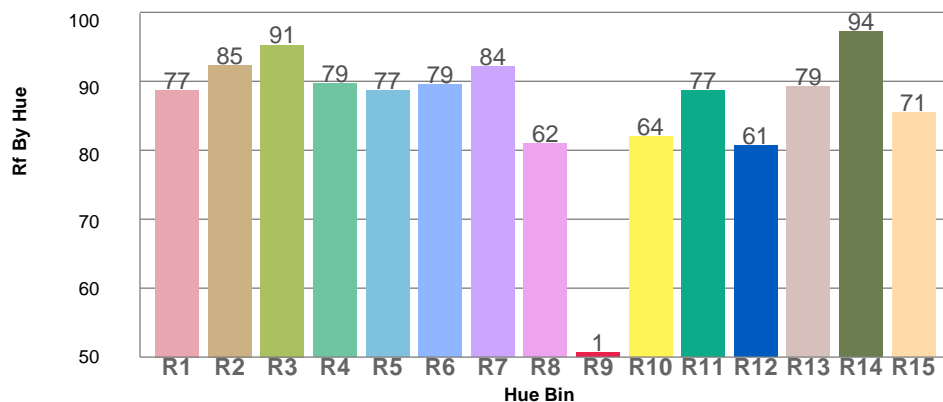
R_f 80.6

GAMUT INDEX

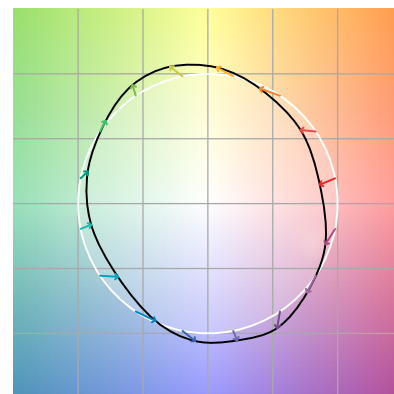
R_g 97.8

Approx. limits for sources on the Planckian locus.
Approx. limits for practical light sources.

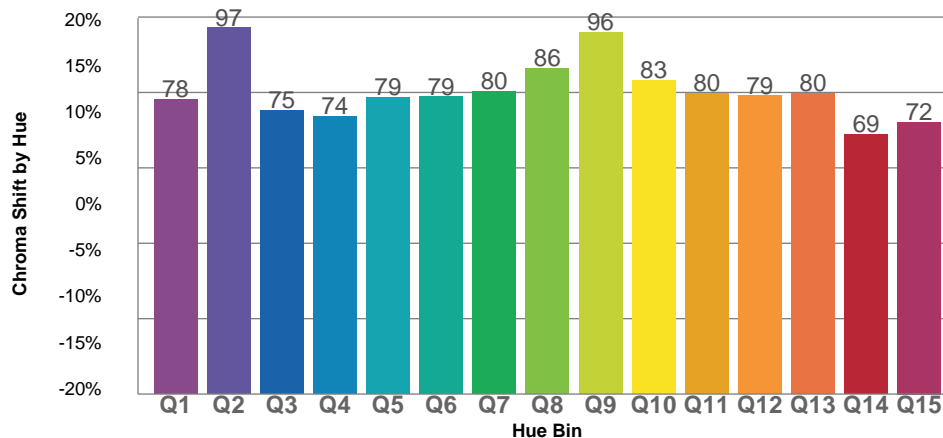
TM30 OVER 50



COLOR VECTOR GRAPHICS



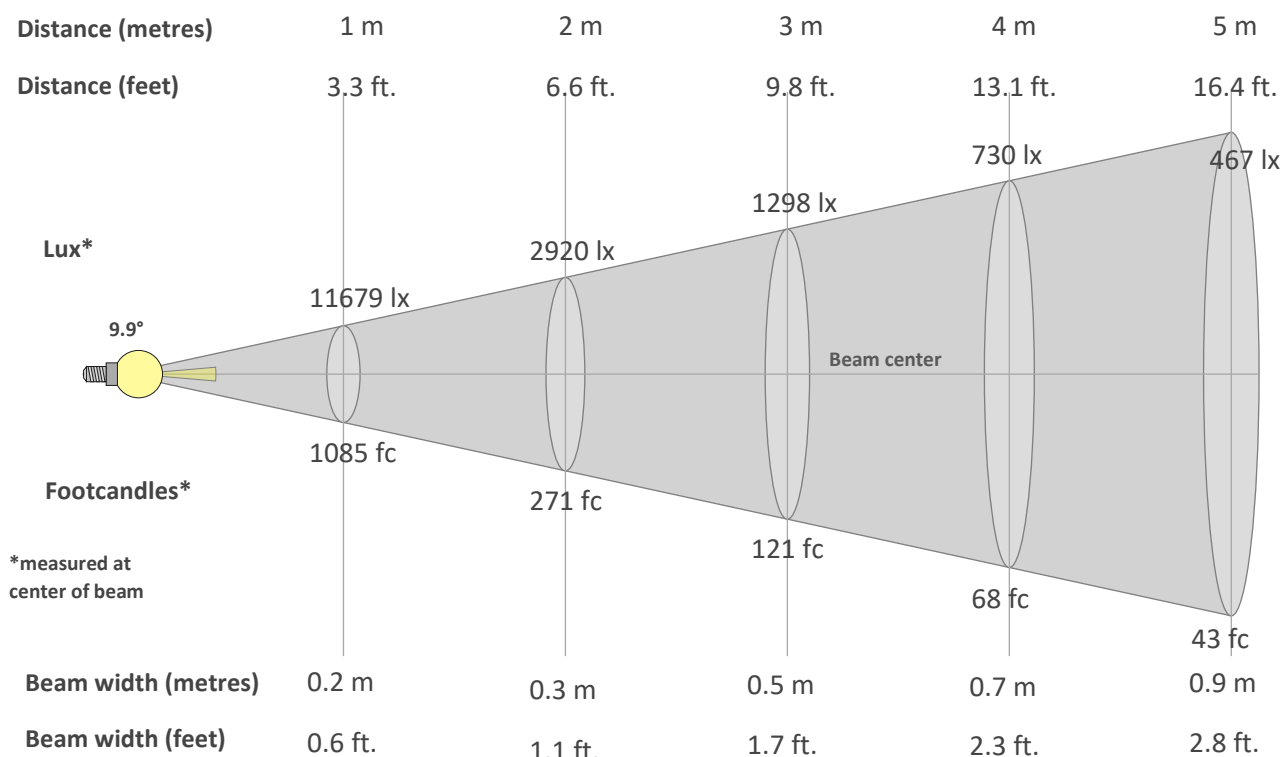
TM30 CHROMA SHIFT



COLOR DISTORTION GRAPHICS



BEAM DETAILS


Beam intensity 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
11679lx	2920lx	1298lx	730lx	467lx	324lx	238lx	182lx	144lx	117lx	97lx	81lx	69lx	60lx	52lx	46lx	40lx	36lx	32lx	29lx
1085fc	271.2fc	120.6fc	67.8fc	43.4fc	30.1fc	22.1fc	17fc	13.4fc	10.8fc	9fc	7.5fc	6.4fc	5.5fc	4.8fc	4.2fc	3.8fc	3.3fc	3fc	2.7fc

Intensity in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.7K	11.4K	10.6K	9.4K	7.9K	6.4K	4.9K	3.7K	2.6K	1.8K	1.3K	0.9K	0.7K	0.5K	0.4K	0.3K	0.3K	0.3K	0.2K	0.2K
100%	98%	91%	81%	68%	55%	42%	31%	22%	15%	11%	8%	6%	4%	3%	3%	3%	2%	2%	2%

Intensity in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.7K	11.3K	10.1K	8.6K	6.8K	5.1K	3.7K	2.5K	1.7K	1.2K	0.9K	0.7K	0.5K	0.4K	0.4K	0.3K	0.3K	0.3K	0.3K	0.2K
100%	96%	87%	73%	58%	44%	31%	22%	15%	10%	8%	6%	4%	4%	3%	3%	2%	2%	2%	2%

Intensity in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.7K	11.4K	10.6K	9.4K	7.9K	6.4K	4.9K	3.7K	2.6K	1.8K	1.3K	0.9K	0.7K	0.5K	0.4K	0.3K	0.3K	0.3K	0.2K	0.2K
100%	98%	91%	81%	68%	55%	42%	31%	22%	15%	11%	8%	6%	4%	3%	3%	3%	2%	2%	2%

Intensity in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.7K	11.3K	10.1K	8.6K	6.8K	5.1K	3.7K	2.5K	1.7K	1.2K	0.9K	0.7K	0.5K	0.4K	0.4K	0.3K	0.3K	0.3K	0.3K	0.2K
100%	96%	87%	73%	58%	44%	31%	22%	15%	10%	8%	6%	4%	4%	3%	3%	2%	2%	2%	2%

GLARE EVALUATION ACCORDING TO UGR

p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p Floor	20	20	20	20	20	20	20	20	20	20	
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H 2H	0.3	0.6	0.3	0.8	0.9	1.7	2.0	1.8	2.2	2.4	
	3H	-0.1	0.4	0.3	0.6	0.8	1.5	1.9	1.8	2.1	2.3
	4H	-0.1	0.3	0.2	0.6	0.8	1.4	1.9	1.8	2.1	2.3
	6H	-0.1	0.2	0.1	0.5	0.9	1.4	1.7	1.7	2.1	2.4
	8H	-0.2	0.2	0.1	0.5	0.9	1.3	1.7	1.6	2.0	2.4
	12H	-0.3	0.1	0.1	0.5	0.9	1.3	1.6	1.6	2.0	2.4
4H 2H	0.0	0.5	0.4	0.7	0.9	1.4	1.9	1.8	2.1	2.3	
	3H	-0.1	0.2	0.2	0.6	1.0	1.3	1.7	1.7	2.1	2.5
	4H	-0.3	0.1	0.1	0.5	1.0	1.2	1.5	1.6	2.0	2.5
	6H	-0.4	0.1	0.1	0.4	0.7	1.1	1.5	1.6	1.8	2.2
	8H	-0.4	0.0	0.1	0.3	0.6	1.0	1.4	1.5	1.7	2.1
	12H	-0.5	-0.2	0.0	0.2	0.6	1.0	1.2	1.5	1.6	2.1
8H 4H	-0.4	0.0	0.1	0.3	0.6	1.0	1.4	1.5	1.7	2.1	
	6H	-0.5	-0.3	0.0	0.2	0.7	1.0	1.2	1.5	1.6	2.2
	8H	-0.5	-0.3	0.0	0.2	0.8	1.0	1.1	1.5	1.6	2.3
	12H	-0.6	-0.4	0.0	0.1	0.7	0.9	1.0	1.5	1.5	2.1
12H 4H	-0.5	-0.2	0.0	0.2	0.6	1.0	1.2	1.5	1.6	2.1	
	6H	-0.5	-0.3	0.0	0.2	0.8	1.0	1.1	1.5	1.6	2.3
	8H	-0.6	-0.4	0.0	0.1	0.7	0.9	1.0	1.5	1.5	2.1
Variation of the observer position for the luminaire distance S											
S = 1.0H	3.6 / -3.0					3.3 / -2.3					
S = 1.5H	6.0 / -14.7					5.3 / -8.8					
S = 2.0H	7.8 / -33.6					7.1 / -25.3					
CIE 117-1995. Corrected glare indices referring to 566 lm total luminous flux											

ROAD REPORT

LCS Table			
BUG rating:		B1 U1 G0	
Forward light	Lumens	Lumens %	
Low(0-30):	268.8	47.5%	
Medium(30-60):	14.1	2.5%	
High(60-80):	0.4	0.1%	
Very high(80-90):	0	0%	
Back light			
Low(0-30):	268.8	47.4%	
Medium(30-60):	14.1	2.5%	
High(60-80):	0.4	0.1%	
Very high(80-90):	0	0%	
Uplight			
Low(90-100):	0	0%	
High(100-180):	0	0%	

