

PHOTOMETRIC TESTING & EVALUATION TO IES LM-79-19

Sample Tested

1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output

Prepared for:

Vista Professional Outdoor Lighting1625 Surveyor Ave
Simi Valley, CA 93063**Technical Report Number**

80239581-55

March 28, 2025

Test Report Prepared and Released by:

*K. A. Patel*Keyur Patel
Certifier-I

Test Report Reviewed by:

*KC Fletcher*KC Fletcher
Manager

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Program Description

Photometric and electrical testing of a 1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output Type C LED Luminaire to IES LM-79-19.

Executive Summary

Sample Tested = 1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output

Sample Number = 44003367

Driver = ELDOLED PW50U-M4Z0X1

LED Module = LUMILEDS LUXEON 2835 Architectural

Test Condition = Total Lumens and electrical values are derived from CSA Report No. 80239581-31

R1(1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-BLUE Output) using a scaling ratio of 2.16 for Total Lumens and 2.03 for electrical values. Spectral data in this report is from CSA Report No. 80239581-31 R1(1052YM-X-MF-RGBW-FL-MV-DMX-With Filter-Blue Output).

Luminous Efficacy (Lumens/Watt)	Luminous Flux (Lumens)	Input Power (Watts)	Power Factor	ATHD (%)
13.83	562.13	40.65	0.9680	14.73

CCT(K)	CRI	R9	Rcs,h1	Rf / Rg
N.A.	N.A.	N.A.	N.A.	N.A.

* The above results are recorded / derived from measurements made using an Integrating Sphere

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Test Sample Pictures

The following sample was submitted for evaluation:



Vista Professional Outdoor Lighting : 1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output

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Test Result

The following results were measured after stabilization of the sample in the Integrating Sphere (unless otherwise stated). Stability shall be achieved when the variation (Maximum to minimum) of at least three readings of the light output and electrical power consumption, taken at a maximum of 10 minute intervals over a period of 20 minutes and divided by the last of these measurements chronologically, is less than 0.5%.

Key Photometric Results	Sample Reference
	1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output
	Integrating Sphere
Luminous Efficacy (Lumens/Watt)	13.83
Total Luminous Flux (Lumens)	562.13
Total Radiant Flux (Watts)	N.A.
Correlated Color Temperature (CCT)	N.A.
Color Rendering Index (CRI)(Ra)	N.A.
R9 Value	N.A.
IES R _f / IES R _g	N.A.
Local Chroma Shift R _{cs,h1}	N.A.
Chromaticity (Chroma x/Chroma y)	0.1352 / 0.0564
Chromaticity (Chroma u/Chroma v)	0.1587 / 0.0994
Chromaticity (Chroma u'/Chroma v')	0.1587 / 0.1491
Duv Value	0.1795
Stabilization Time (Light and Power)	N.A.
Total Run Time (Integrating Sphere)	N.A.
Scotopic/Photopic ratio $\Phi(v')/\Phi(v)$	7.63

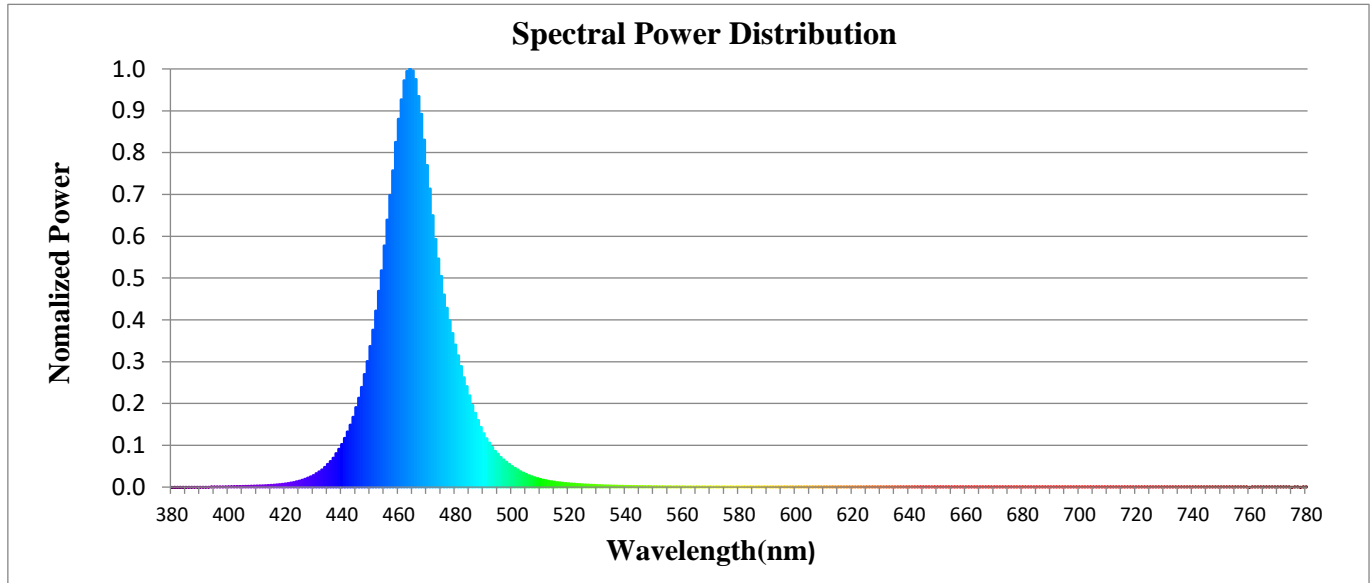
Electrical Input Results:	Sample Reference
	1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output
Input Power (Watts)	40.65
Input Voltage (Volts AC)	120.00
Input Current (Amps)	0.35
Input Frequency (Hertz)	60.0
Power Factor	0.9680
Total Harmonic Distortion (THD V,A)%	0.11, 14.73

Additional Information	Sample Reference
	1054YM-X-MF-RGBW-FL-MV-DMX-With Filter-BLUE Output
Ambient Temperature	N.A.
Integrating Sphere Detector	CDS 2600 Spectroradiometer
Absortion Correction Used?	Yes
Date Tested	N.A.

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Spectral Flux

The following graph shows the spectral response curve of the radiant flux for the sample:

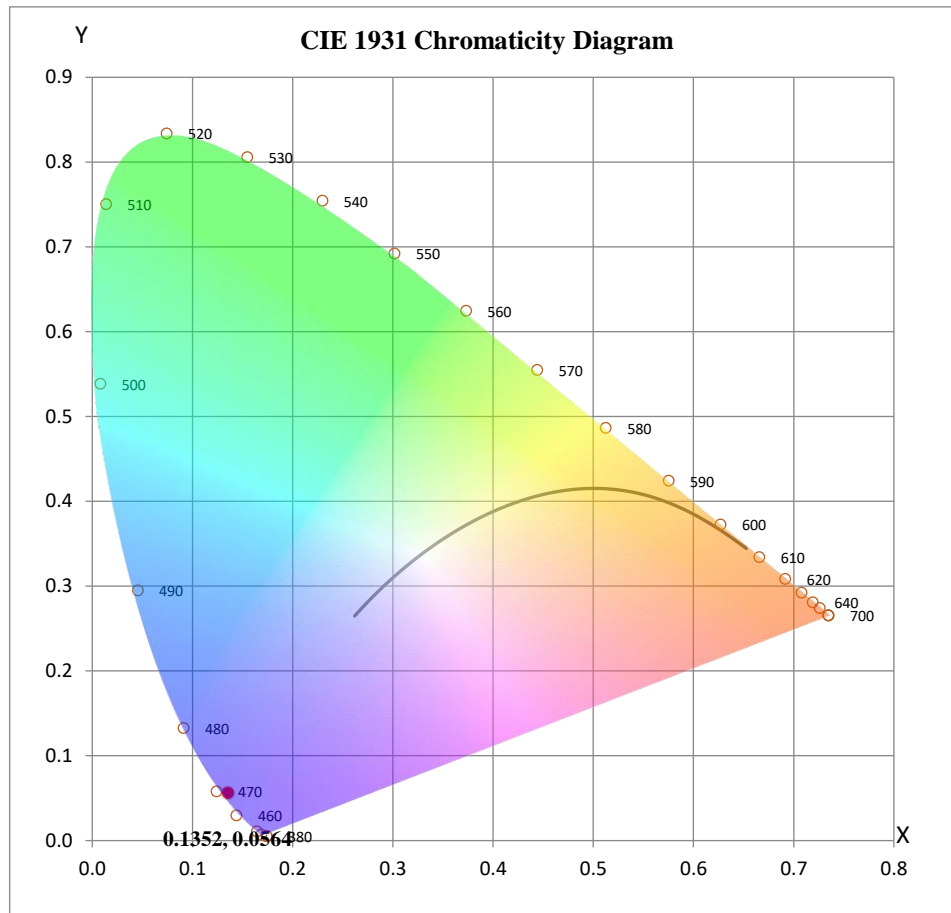


Spectral response of the Radiant Flux
 (380nm to 780nm - calibrated range of the Spectroradiometer)

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Chromaticity Diagram

The following image shows the chromaticity diagram for the sample:

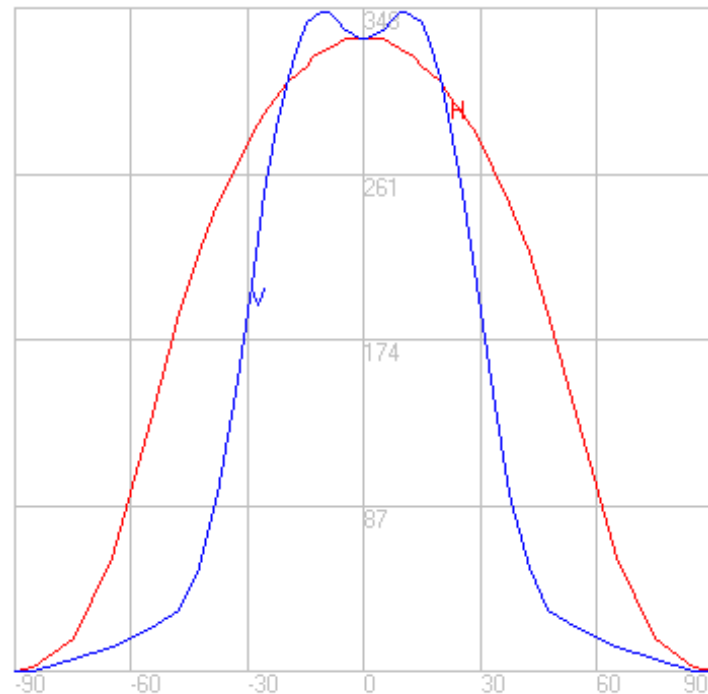
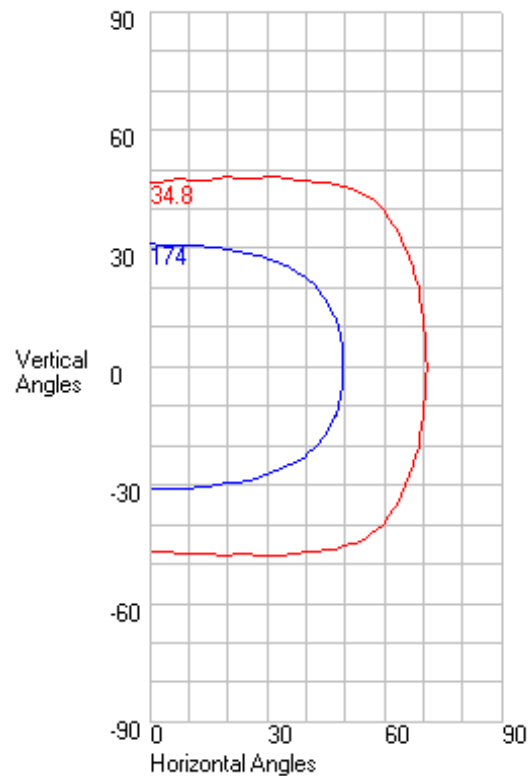


$x = 0.1352$ $y = 0.0564$

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Photometric Test Results

Characteristics	
NEMA Type	7 H x 5 V
Maximum Candela	348.00
Maximum Candela Angle	-1 H -11 V
Horizontal Beam Angle (50%)	96.30
Vertical Beam Angle (50%)	62.10
Horizontal Field Angle (10%)	140.40
Vertical Field Angle (10%)	93.70
Beam Lumens	383.00
Field Lumens	525

Axial Candela Display

Isocandela Curves


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Candela Tabulation

		Vertical Angle																																					
Horizontal Angle		0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0	
	0	332	335	337	343	348	343	341	326	309	285	257	225	188	153	119	93	71	54	41	32	26	24	22	17	15	15	13	13	9	9	6	2	2	0	0	0	0	
	5	332	335	341	343	348	348	337	326	309	287	257	227	188	153	119	93	71	54	41	32	26	24	22	17	15	15	13	13	9	9	6	2	2	0	0	0	0	
	10	332	335	337	343	348	348	337	326	311	287	259	227	192	155	123	95	71	56	45	37	30	24	22	17	15	15	13	13	9	9	6	2	2	0	0	0	0	
	15	332	335	337	343	348	343	337	328	311	289	263	233	196	162	130	101	78	60	47	37	30	24	22	17	17	15	13	13	9	9	6	2	2	0	0	0	0	
	20	332	335	337	341	343	343	337	328	313	294	270	240	207	171	138	108	84	63	52	39	32	26	24	22	17	15	15	13	9	9	6	6	2	0	0	0	0	
	25	332	335	337	341	343	343	341	332	317	298	274	246	216	179	147	117	91	69	54	45	37	30	24	22	17	15	15	13	13	9	6	6	2	0	0	0	0	
	30	332	335	337	341	343	343	341	332	320	302	281	255	225	192	158	130	101	78	63	47	39	32	26	24	22	17	15	13	13	9	6	6	2	2	0	0	0	0
	35	332	335	335	337	341	343	341	332	320	304	287	263	235	203	173	140	114	91	71	56	45	37	30	24	22	17	17	15	13	9	9	6	2	2	0	0	0	0
	40	332	335	335	337	341	341	341	335	324	311	294	272	248	218	188	158	130	101	80	65	52	41	37	30	24	22	17	15	13	13	9	6	2	2	0	0	0	0
	45	332	332	335	337	337	341	337	335	326	313	298	281	259	233	207	177	147	119	95	78	60	47	39	32	26	24	22	17	15	13	9	6	2	2	0	0	0	0
	50	332	332	335	335	337	337	337	332	326	317	304	289	270	248	220	194	164	138	110	91	71	60	47	39	32	26	24	17	15	13	9	6	6	2	0	0	0	0
	55	332	332	332	335	335	335	335	332	326	317	309	294	279	257	235	212	186	158	132	108	86	71	56	47	39	32	26	22	17	15	13	9	6	2	0	0	0	0
	60	332	332	332	332	335	332	332	328	326	317	311	298	285	270	250	227	203	177	153	125	104	84	69	56	45	39	30	24	22	15	13	9	6	2	0	0	0	0
	65	332	332	332	332	332	332	328	326	324	317	309	298	287	274	257	240	218	196	171	147	123	101	84	69	54	45	37	30	24	17	15	9	6	2	0	0	0	0
	70	332	332	332	332	328	328	326	324	320	313	309	298	287	279	263	248	231	209	188	164	140	119	99	80	65	54	41	32	26	22	15	13	6	2	0	0	0	0
	75	332	332	332	332	328	326	324	320	313	311	304	296	287	274	263	250	235	218	201	179	155	134	110	93	76	60	47	39	30	24	17	13	6	2	2	0	0	0
	80	332	332	332	328	328	326	320	317	311	304	298	289	281	272	263	250	235	220	203	186	168	142	123	101	84	69	54	41	32	24	17	13	9	2	0	0	0	0
	85	332	332	332	328	326	324	320	313	309	302	296	287	279	270	257	248	233	220	207	188	171	153	132	110	91	71	56	45	37	26	17	13	9	6	2	0	0	0
90	332	332	332	328	326	324	317	313	309	302	294	287	279	266	257	246	233	220	207	188	173	153	132	110	93	76	60	45	37	26	17	15	9	6	2	0	0	0	

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