



## PHOTOMETRIC TESTING & EVALUATION TO IES LM-79-19

Sample Tested

**1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN Output**

Prepared for:

**Vista Professional Outdoor Lighting**

1625 Surveyor Ave  
Simi Valley, CA 93063

**Technical Report Number**

80239581-6

March 26, 2025

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## Program Description

Photometric and electrical testing of a 1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN Output Type C LED Luminaire to IES LM-79-19.

## Executive Summary

Sample Tested = 1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN 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. 80239581-30

R1(1052YM-X-MF-RGBW-FL-MV-DMX-With Filter-GREEN Output) using a scaling ratio of 0.56 for Total Lumens and 0.58 for electrical values. Spectral data in this report is from CSA Report No. 80239581-30 R1(1052YM-X-MF-RGBW-FL-MV-DMX-With Filter-Green Output).

Luminous Efficacy (Lumens/Watt)	Luminous Flux (Lumens)	Input Power (Watts)	Power Factor	ATHD (%)
54.05	643.35	11.90	0.9705	14.39

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 : 1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN 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
	1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN Output
	Integrating Sphere
Luminous Efficacy (Lumens/Watt)	54.05
Total Luminous Flux (Lumens)	643.35
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 <sub>f</sub> / IES R <sub>g</sub>	N.A.
Local Chroma Shift R <sub>cs,h1</sub>	N.A.
Chromaticity (Chroma x/Chroma y)	0.1484 / 0.7017
Chromaticity (Chroma u/Chroma v)	0.0534 / 0.3785
Chromaticity (Chroma u'/Chroma v')	0.0534 / 0.5677
Duv Value	0.1609
Stabilization Time (Light and Power)	N.A.
Total Run Time (Integrating Sphere)	N.A.
Scotopic/Photopic ratio $\Phi(v')/\Phi(v)$	5.64

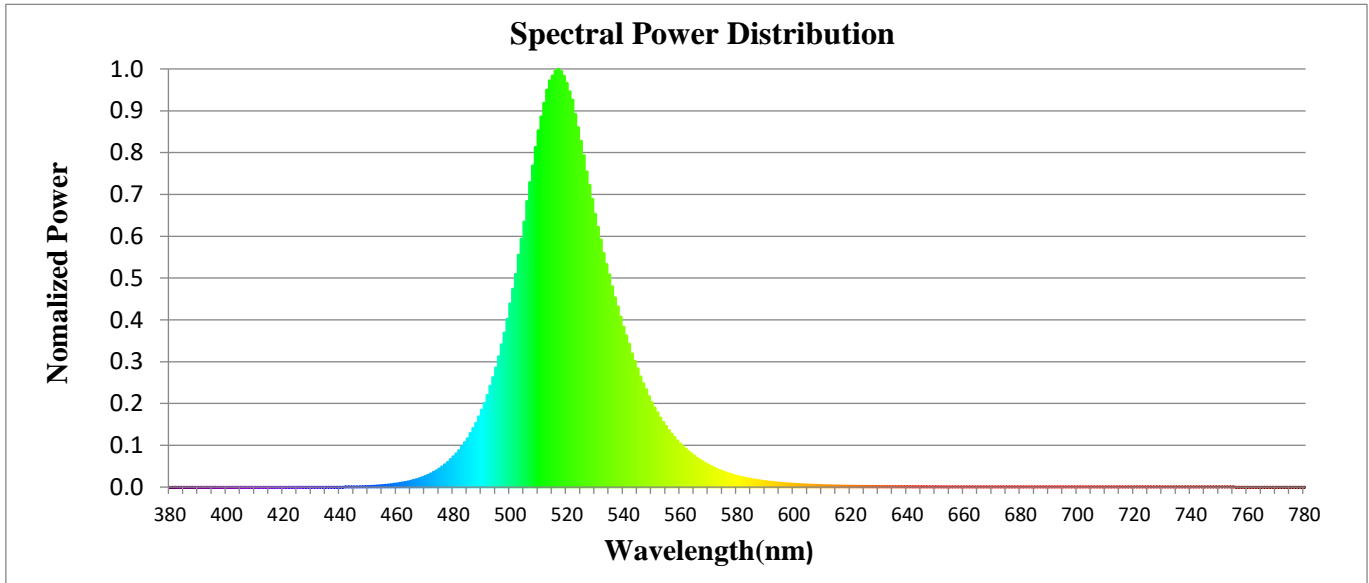
Electrical Input Results:	Sample Reference
	1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN Output
Input Power (Watts)	11.90
Input Voltage (Volts AC)	120.12
Input Current (Amps)	0.1
Input Frequency (Hertz)	60.0
Power Factor	0.9705
Total Harmonic Distortion (THD V,A)%	0.22, 14.39

Additional Information	Sample Reference
	1051YM-X-MF-RGBW-SB-MV-DMX-With Filter-GREEN Output
Ambient Temperature	N.A.
Integrating Sphere Detector	CDS 2600 Spectroradiometer
Absorption 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:

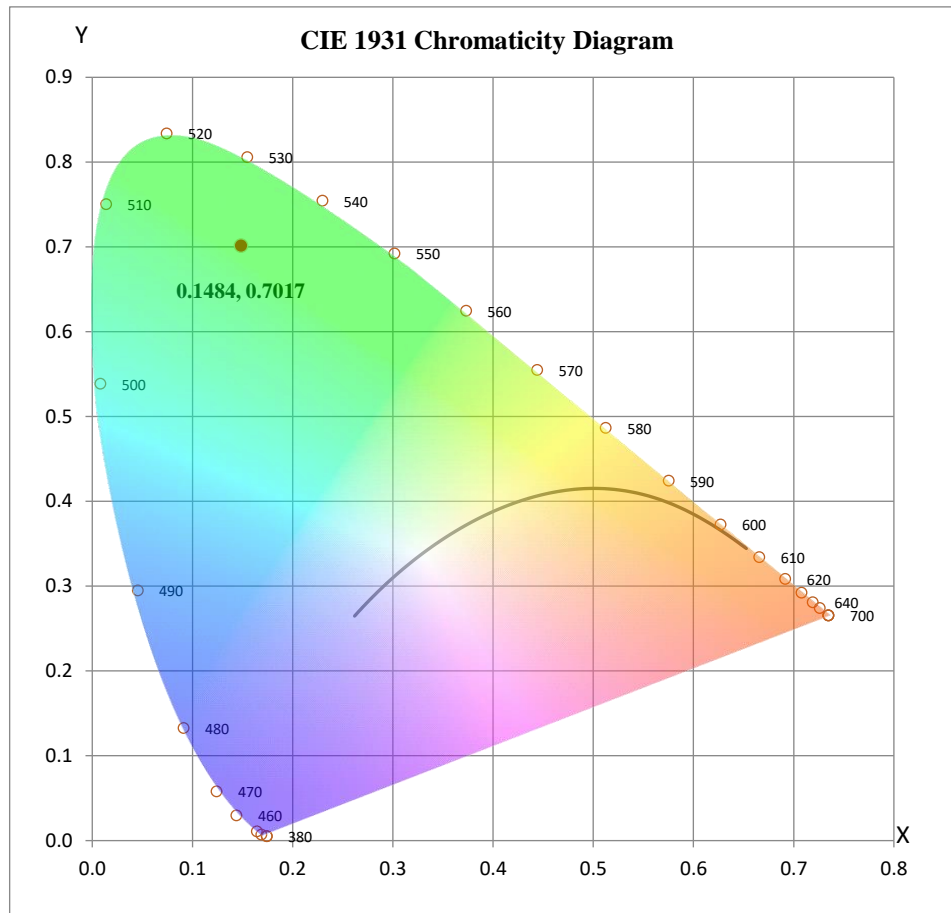


**Spectral response of the Radiant Flux**  
 (380nm to 780nm - calibrated range of the Spectroradiometer)

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## Chromaticity Diagram

The following image shows the chromaticity diagram for the sample:

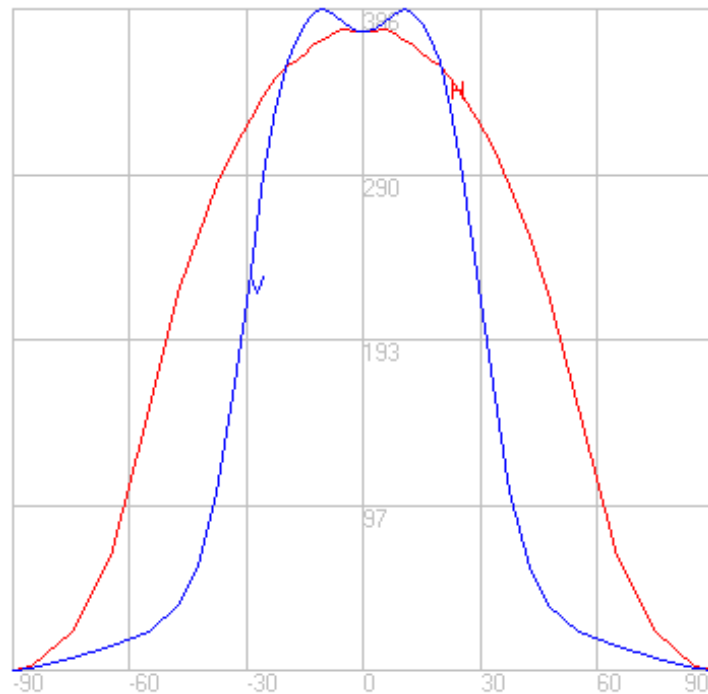
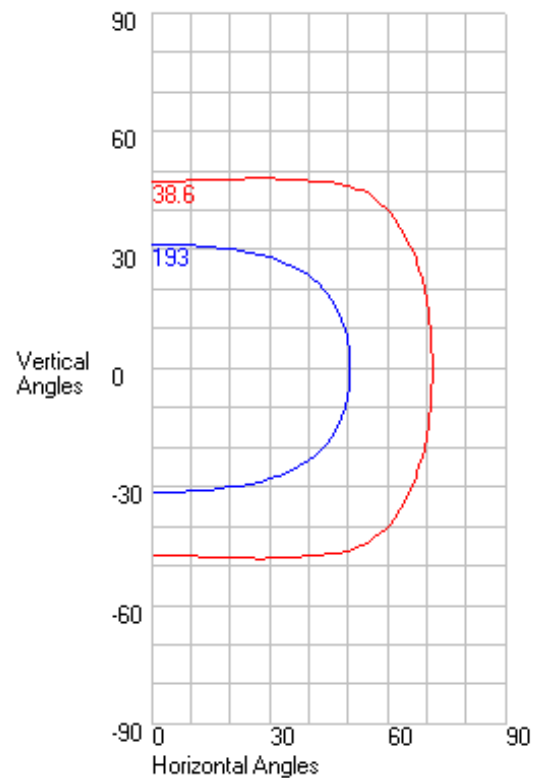


$x = 0.1484$        $y = 0.7017$

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**Photometric Test Results**

Characteristics	
NEMA Type	7 H x 5 V
Maximum Candela	386.00
Maximum Candela Angle	0 H -11 V
Horizontal Beam Angle (50%)	98.10
Vertical Beam Angle (50%)	62.80
Horizontal Field Angle (10%)	141.60
Vertical Field Angle (10%)	94.70
Beam Lumens	452.00
Field Lumens	603

**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	373	374	378	383	387	384	378	368	353	329	297	258	217	175	137	104	80	60	47	38	31	26	22	20	17	16	14	12	10	8	7	5	3	2	1	0	0	
	5	373	376	380	383	386	384	377	367	352	329	297	259	217	176	138	106	81	62	48	38	31	26	22	20	17	16	14	12	10	8	7	5	3	2	1	0	0	
	10	373	374	377	382	386	384	378	366	352	330	299	263	222	179	141	108	83	64	50	39	32	27	23	20	17	16	14	13	11	9	7	5	3	2	1	0	0	
	15	373	375	379	382	384	385	377	367	352	334	303	268	227	187	147	115	87	67	52	42	34	28	24	21	19	16	15	13	11	9	7	6	3	2	1	0	0	
	20	373	376	379	380	384	384	380	368	356	336	309	275	236	195	157	122	95	72	57	45	37	30	25	22	20	17	15	13	12	10	7	6	3	2	1	0	0	
	25	373	374	379	381	383	386	380	372	358	340	314	283	247	207	167	133	103	80	62	49	39	33	28	24	21	18	16	14	12	10	8	6	3	2	1	0	0	
	30	373	376	379	381	382	384	381	375	362	344	322	293	258	220	181	146	115	90	70	55	44	36	30	26	22	20	17	15	13	11	8	6	4	2	1	0	0	
	35	373	373	378	381	384	385	383	376	366	350	328	303	271	236	198	162	129	102	80	63	51	42	34	29	25	22	19	16	14	12	9	7	4	2	1	0	0	
	40	373	375	377	380	382	383	383	376	367	353	336	313	284	253	216	180	148	118	94	74	58	47	39	33	28	24	21	17	15	12	10	7	5	2	1	0	0	
	45	373	375	376	379	381	382	382	378	370	357	343	323	298	270	236	202	167	136	109	88	69	56	45	38	31	28	23	20	17	13	11	8	6	3	1	1	0	
	50	373	375	375	376	379	380	380	379	370	360	348	330	309	285	256	224	191	158	129	104	84	67	54	44	37	31	26	22	19	15	12	8	6	3	1	0	0	
	55	373	376	376	377	379	380	379	375	369	360	349	336	320	298	273	245	213	181	151	124	100	81	66	53	44	37	30	25	21	17	13	10	6	3	2	1	0	
	60	373	374	376	376	376	376	375	373	367	359	350	339	327	309	289	263	236	206	176	146	120	98	80	65	52	43	35	29	24	19	15	10	7	3	2	1	0	
	65	373	373	375	374	374	373	371	368	364	358	351	343	331	316	298	277	254	227	199	170	142	117	96	77	62	51	42	34	28	21	16	12	8	4	2	1	0	
	70	373	376	375	374	372	370	367	364	360	355	349	342	332	320	304	286	267	244	218	191	163	137	113	92	75	60	49	39	31	24	18	13	8	5	2	1	0	
	75	373	376	375	373	371	368	364	361	357	351	346	340	330	319	305	290	273	253	232	207	181	154	129	106	87	70	56	44	35	27	20	14	9	5	2	1	0	
	80	373	374	374	373	370	366	363	358	353	348	342	335	326	314	302	289	273	256	238	216	193	168	143	119	97	77	62	48	38	29	21	15	10	6	2	1	0	
	85	373	372	373	372	369	366	361	356	349	344	339	330	321	309	298	285	271	256	239	220	199	176	151	127	104	84	66	52	40	30	22	16	10	6	2	1	0	
90	373	374	375	372	369	366	361	356	352	346	338	329	319	308	297	284	270	254	238	221	200	178	153	129	106	85	67	52	40	30	22	16	10	6	2	1	0		

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