

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1067566

Luminaire Tested: **NAV-SA3B-827-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067566
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-827-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9838 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

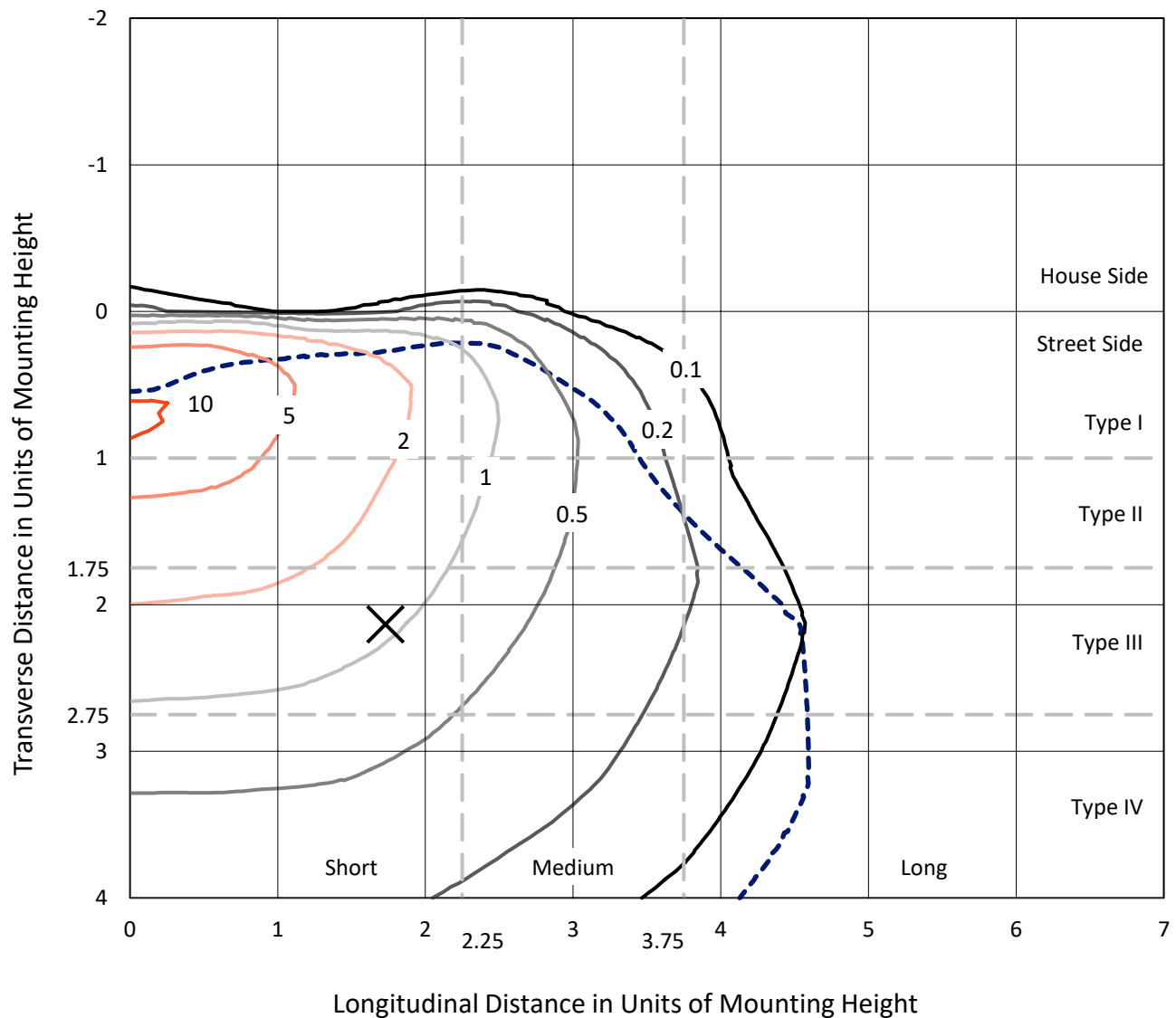


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

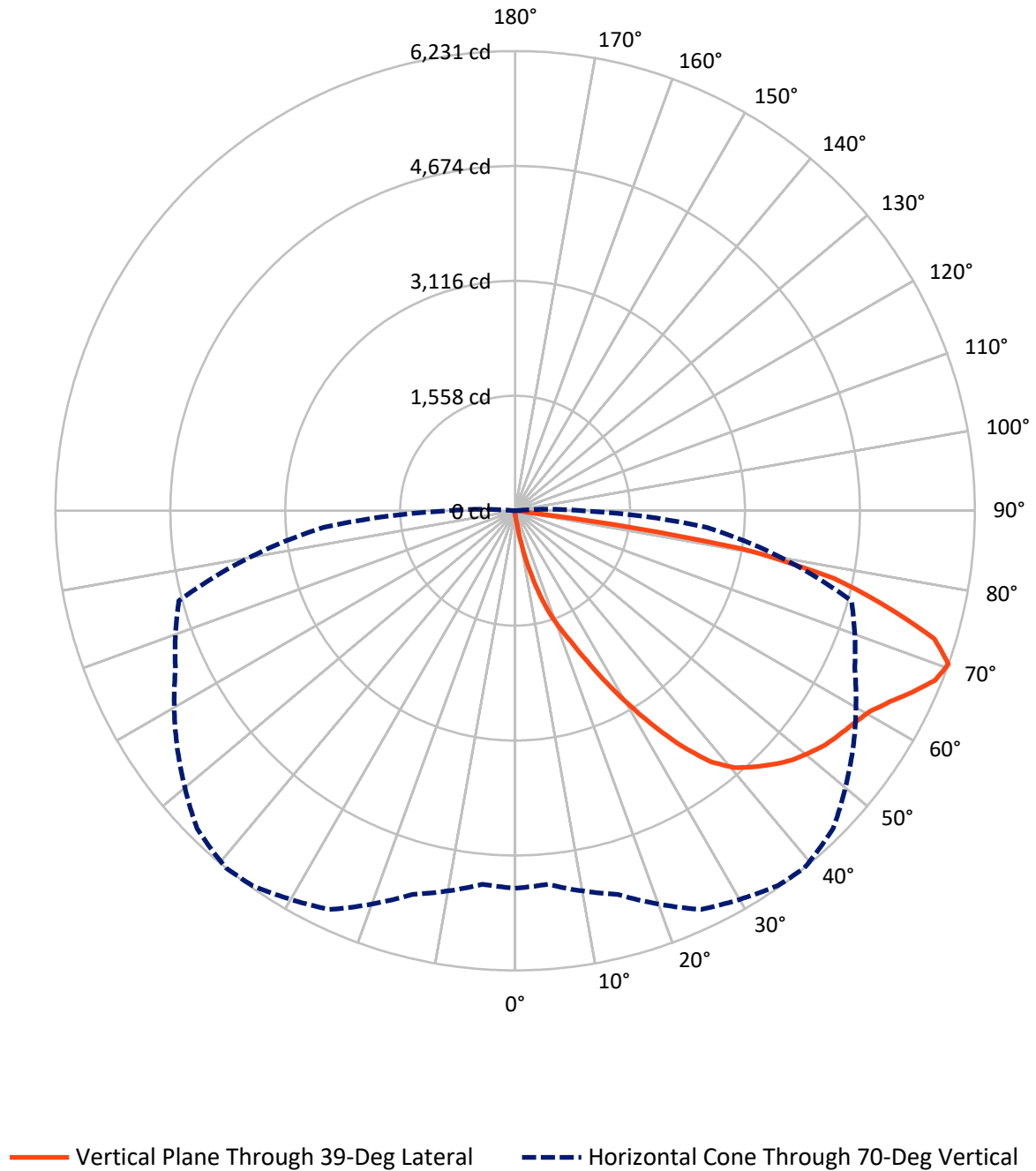


Based on 15 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30.3	0.0	30.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	9807.7	0.0	9807.7
	% Fixture	99.7	0.0	99.7
Total	Lumens	9838.0	0.0	9838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.1
10°-20°	120.9	1.2
20°-30°	410.4	4.2
30°-40°	964.6	9.8
40°-50°	1566.3	15.9
50°-60°	1984.8	20.2
60°-70°	2521.2	25.6
70°-80°	2048.5	20.8
80°-90°	210.9	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9838.0	100.0
0°-180°	9838.0	100.0



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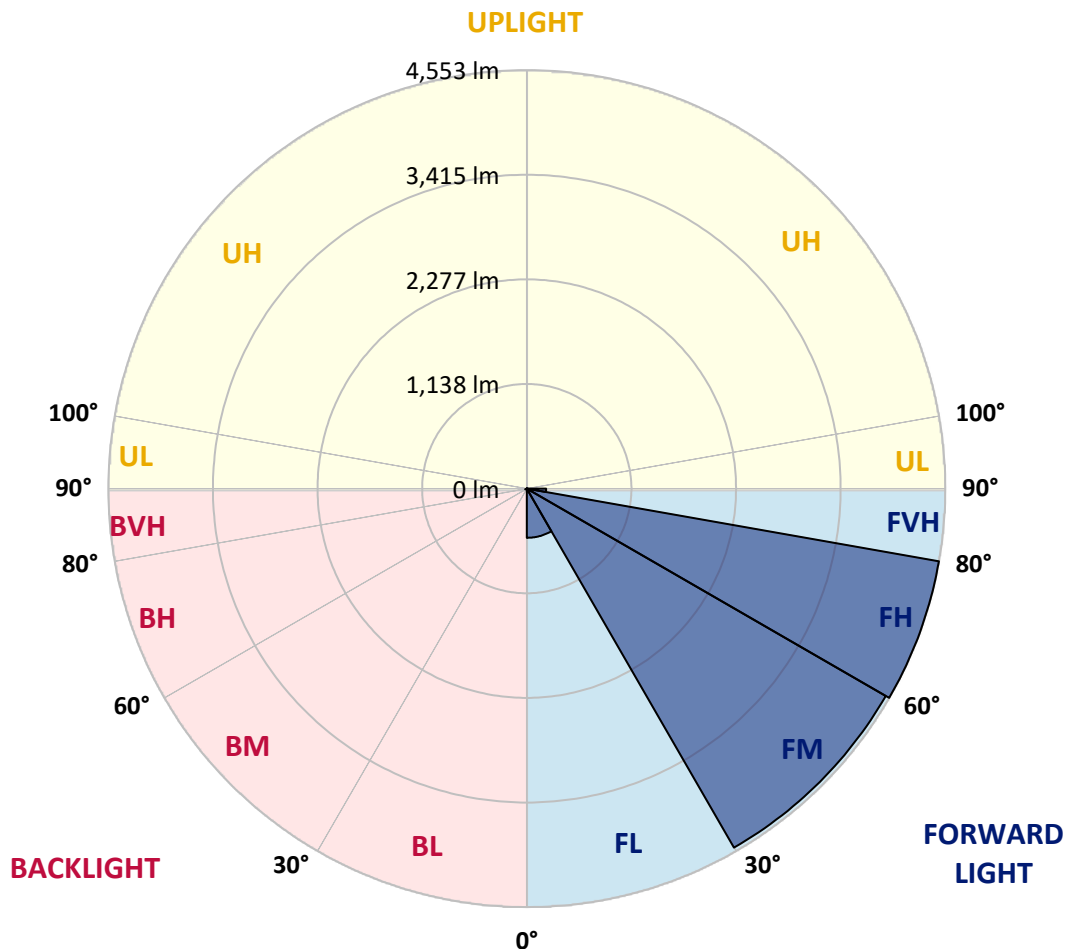
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.2	5.4			
FM	(30°-60°)	4509.8	45.8			
FH	(60°-80°)	4553.0	46.3			G2/5000
FVH	(80°-90°)	209.7	2.1			G2/225
BL	(0°-30°)	6.6	0.1	B0/110		
BM	(30°-60°)	5.8	0.1	B0/220		
BH	(60°-80°)	16.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	69.4	69.4	69.4	66.8	66.8	64.1	64.1	61.4	58.8	58.8	56.1
5°	130.9	133.5	125.5	109.5	98.8	93.5	88.1	74.8	66.8	61.4	56.1
7.5°	357.9	347.2	331.2	277.8	213.7	181.6	154.9	109.5	80.1	64.1	56.1
10°	753.2	723.8	678.4	606.3	480.8	430.0	333.9	200.3	112.2	72.1	56.1
12.5°	1105.8	1111.1	1055.0	985.6	833.3	747.9	617.0	376.6	176.3	85.5	56.1
15°	1372.9	1367.5	1346.2	1290.1	1153.9	1071.1	953.5	633.0	296.5	106.8	58.8
17.5°	1583.9	1562.5	1554.5	1530.5	1442.3	1396.9	1268.7	932.2	470.1	144.2	61.4
20°	1794.9	1789.6	1781.5	1754.8	1696.1	1664.0	1565.2	1234.0	699.8	205.7	66.8
22.5°	2102.1	2072.7	2078.0	2019.3	1971.2	1915.1	1835.0	1554.5	964.2	293.8	74.8
25°	2462.6	2460.0	2417.2	2390.5	2310.4	2249.0	2142.1	1864.3	1258.0	424.7	82.8
27.5°	2887.3	2858.0	2839.3	2793.9	2711.1	2641.6	2494.7	2171.5	1575.9	571.6	93.5
30°	3330.7	3330.7	3296.0	3226.6	3146.4	3060.9	2911.4	2494.7	1891.1	758.6	106.8
32.5°	3848.9	3859.6	3774.1	3669.9	3565.8	3507.0	3312.0	2860.6	2192.9	972.2	122.9
35°	4351.0	4337.7	4196.1	4081.3	4003.8	3939.7	3774.1	3261.3	2534.8	1220.6	144.2
37.5°	4831.8	4797.1	4562.0	4399.1	4364.4	4321.7	4156.1	3661.9	2874.0	1495.8	170.9
40°	5176.4	5123.0	4879.9	4655.5	4604.8	4580.7	4452.5	4025.2	3231.9	1802.9	205.7
42.5°	5325.9	5264.5	5096.2	4914.6	4802.4	4746.3	4634.2	4321.7	3589.8	2144.8	256.4
45°	5355.3	5307.2	5187.1	5144.3	4992.1	4906.6	4754.4	4532.7	3923.7	2484.0	325.9
47.5°	5248.5	5227.1	5155.0	5245.8	5168.4	5050.8	4866.5	4690.3	4220.2	2895.3	422.0
50°	4986.7	4970.7	5005.4	5243.1	5296.6	5163.0	4989.4	4813.1	4476.6	3320.0	558.2
52.5°	4634.2	4631.5	4794.4	5173.7	5352.7	5269.9	5109.6	4936.0	4679.6	3731.4	750.5
55°	4249.5	4294.9	4580.7	5109.6	5384.7	5347.3	5227.1	5045.5	4861.2	4113.3	1060.4
57.5°	4217.5	4198.8	4473.9	5082.9	5403.4	5424.8	5344.6	5160.3	5016.1	4425.8	1474.4
60°	4538.0	4495.3	4599.4	5139.0	5486.2	5523.6	5462.2	5248.5	5171.0	4671.6	2019.3
62.5°	4909.3	4869.2	4922.6	5355.3	5649.1	5702.6	5625.1	5339.3	5296.6	4842.5	2604.2
65°	5205.8	5173.7	5275.2	5678.5	5876.2	5921.6	5868.2	5507.6	5352.7	4981.4	3079.6
67.5°	5253.8	5213.8	5424.8	5894.9	6105.9	6137.9	6095.2	5670.5	5334.0	4992.1	3189.2
70°	5117.6	5082.9	5384.7	5964.3	6204.7	6231.4	6095.2	5593.0	5080.2	4719.6	2606.9
72.5°	4698.3	4725.0	5114.9	5796.0	6068.5	5945.6	5657.1	5203.1	4751.7	4001.1	1829.6
75°	4046.5	4075.9	4594.1	5334.0	5355.3	5205.8	5050.8	4786.4	4252.2	2636.3	1268.7
77.5°	2876.7	2772.5	3547.1	4404.5	4327.0	4423.2	4436.5	3982.4	3560.4	1372.9	849.4
80°	283.1	240.4	446.1	1263.4	2791.2	3119.7	3247.9	3069.0	2625.6	614.3	446.1
82.5°	61.4	61.4	66.8	72.1	112.2	168.3	771.9	1891.1	1696.1	312.5	144.2
85°	34.7	34.7	42.7	50.7	66.8	74.8	88.1	117.5	456.7	112.2	26.7
87.5°	26.7	29.4	34.7	42.7	56.1	61.4	74.8	93.5	114.9	104.2	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: NAV-SA3B-827-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	56.1	53.4	50.7	48.1	45.4	45.4	42.7	42.7	42.7	42.7	42.7
5°	53.4	50.7	48.1	42.7	40.1	37.4	34.7	34.7	34.7	34.7	34.7
7.5°	53.4	50.7	45.4	40.1	34.7	32.1	29.4	26.7	26.7	29.4	29.4
10°	53.4	48.1	40.1	34.7	29.4	26.7	24.0	21.4	21.4	21.4	21.4
12.5°	50.7	45.4	37.4	32.1	26.7	21.4	16.0	13.4	13.4	13.4	13.4
15°	48.1	42.7	34.7	26.7	18.7	13.4	10.7	8.0	8.0	8.0	8.0
17.5°	48.1	40.1	32.1	24.0	13.4	8.0	5.3	2.7	2.7	2.7	5.3
20°	48.1	40.1	29.4	18.7	8.0	5.3	5.3	2.7	0.0	2.7	2.7
22.5°	48.1	37.4	24.0	13.4	8.0	5.3	2.7	0.0	0.0	0.0	0.0
25°	50.7	37.4	21.4	10.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0
27.5°	50.7	34.7	18.7	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
30°	53.4	34.7	16.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	53.4	32.1	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	53.4	29.4	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	53.4	26.7	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	56.1	24.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	58.8	21.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	61.4	18.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	69.4	18.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	80.1	18.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	96.2	18.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	125.5	16.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	181.6	16.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	304.5	16.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	534.2	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	902.8	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1177.9	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	894.8	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	427.4	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	189.6	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	82.8	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.1	5.3	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	5.3	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
85°	8.0	5.3	5.3	5.3	2.7	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	5.3	5.3	5.3	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

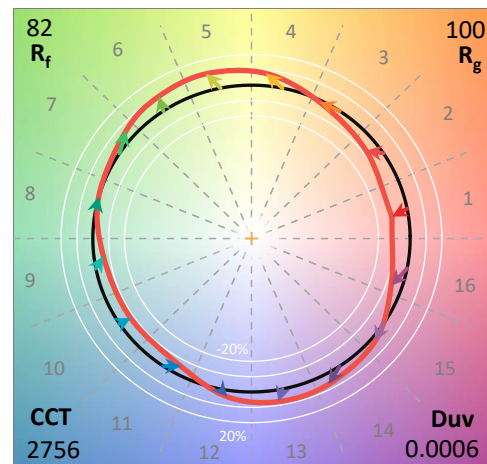
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

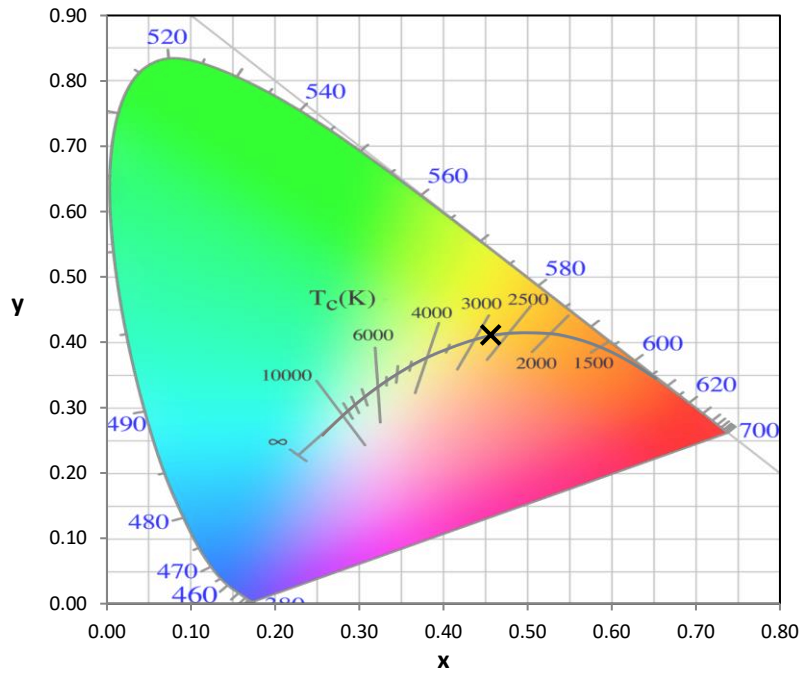
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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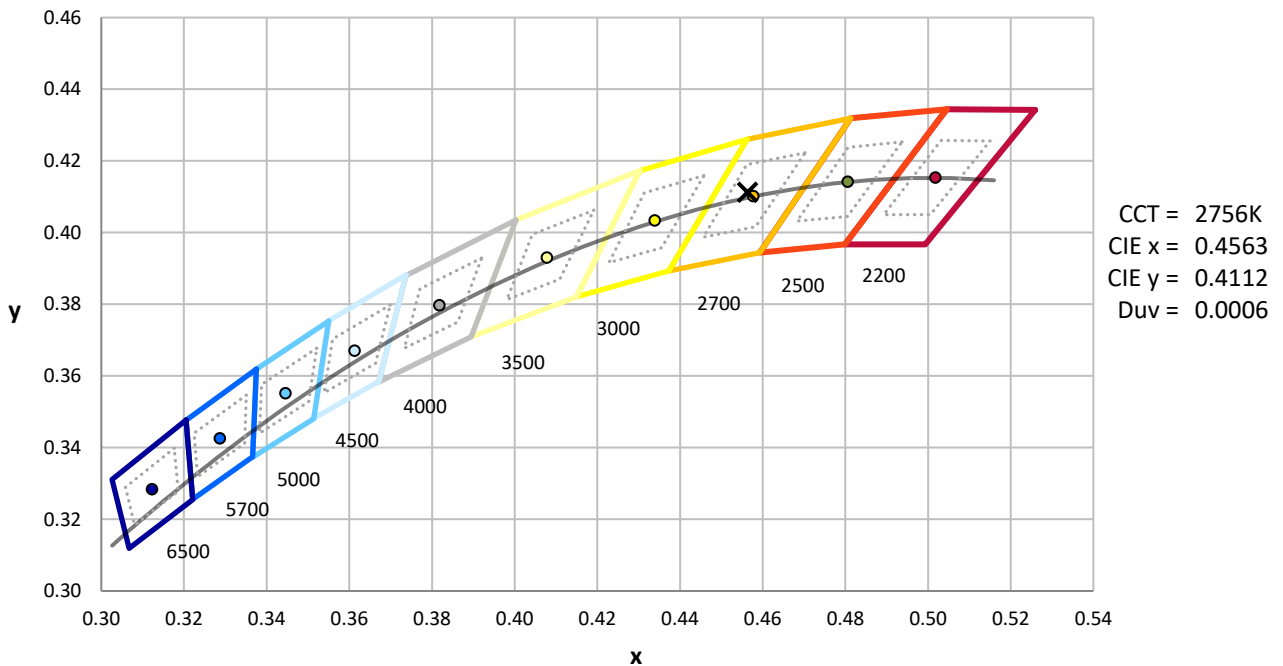
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



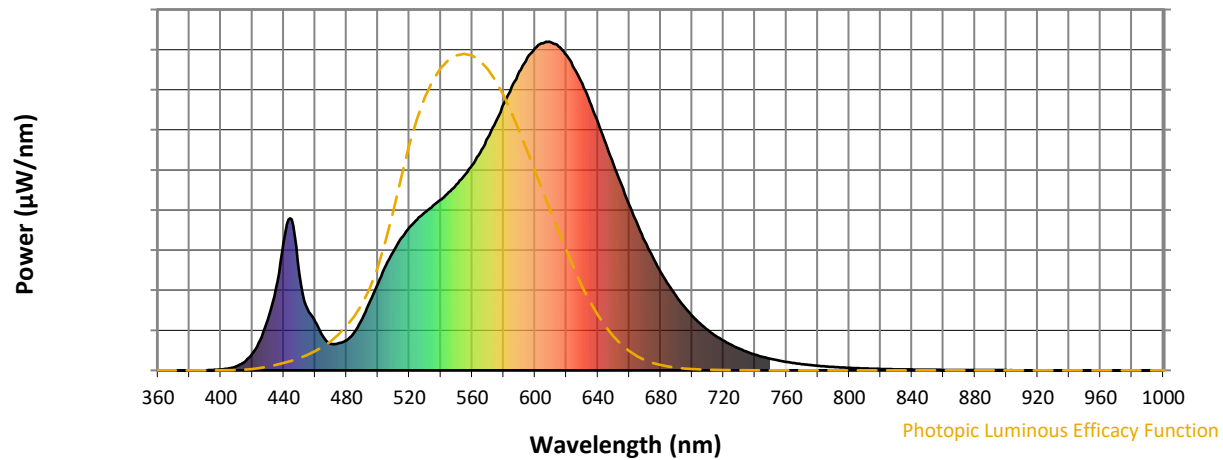
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

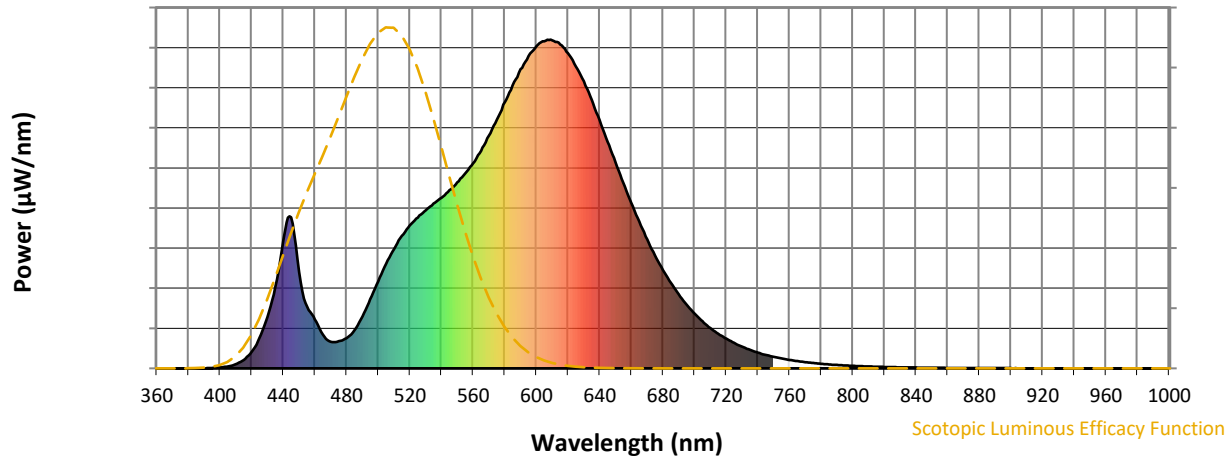


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



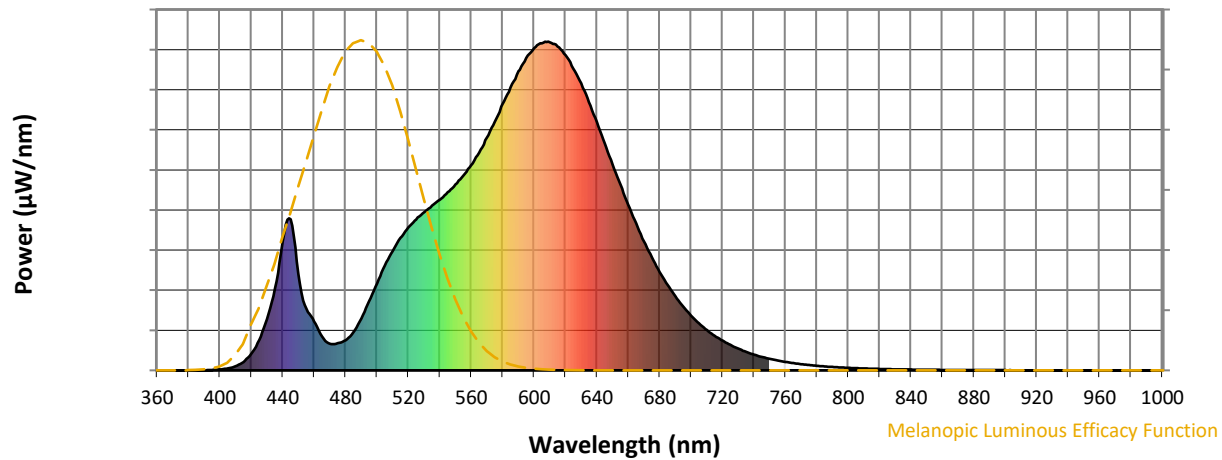
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

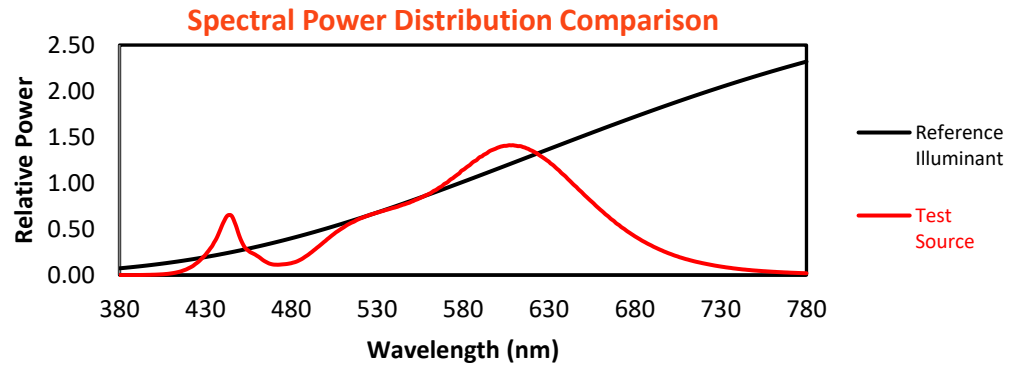
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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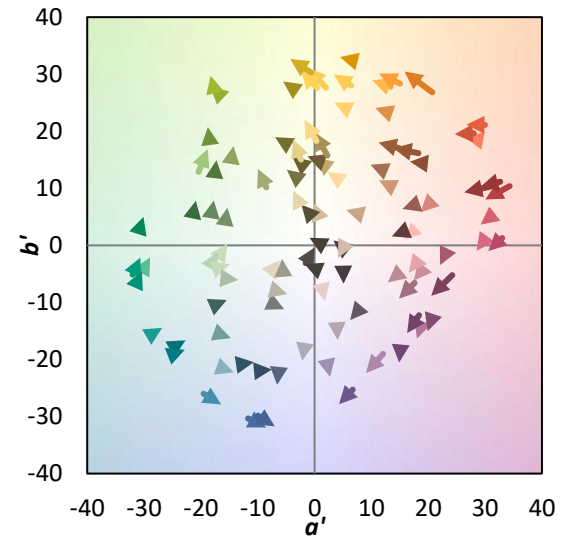
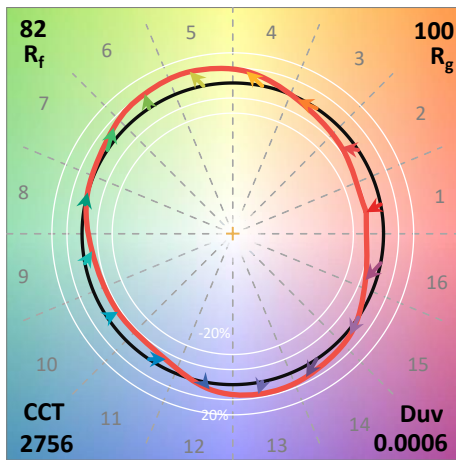
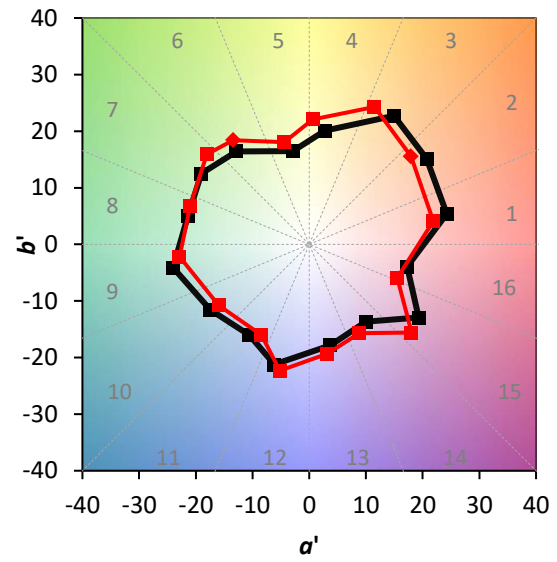
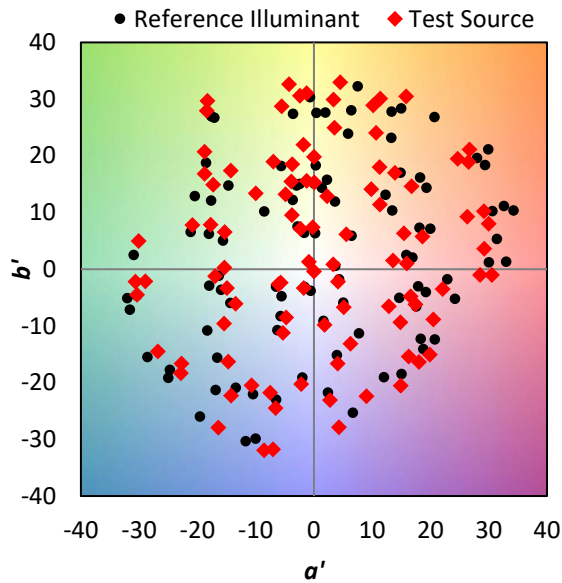
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

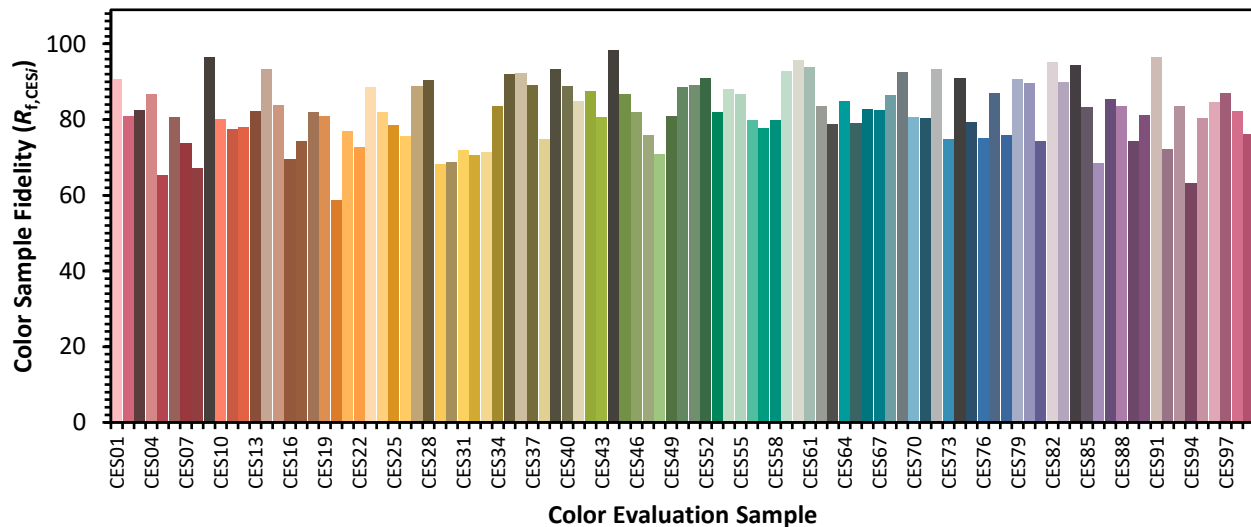


Color Vector Graphics

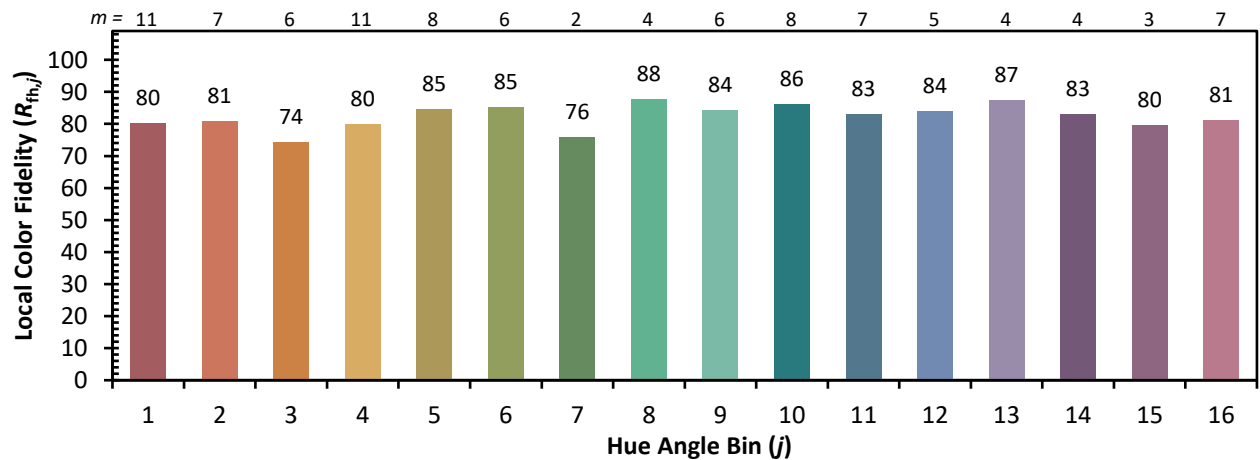
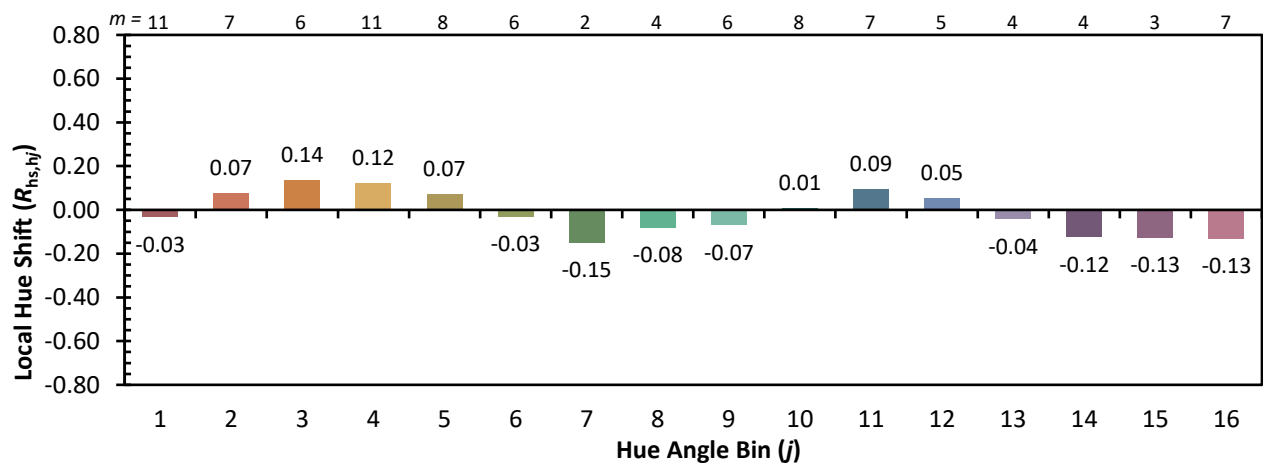
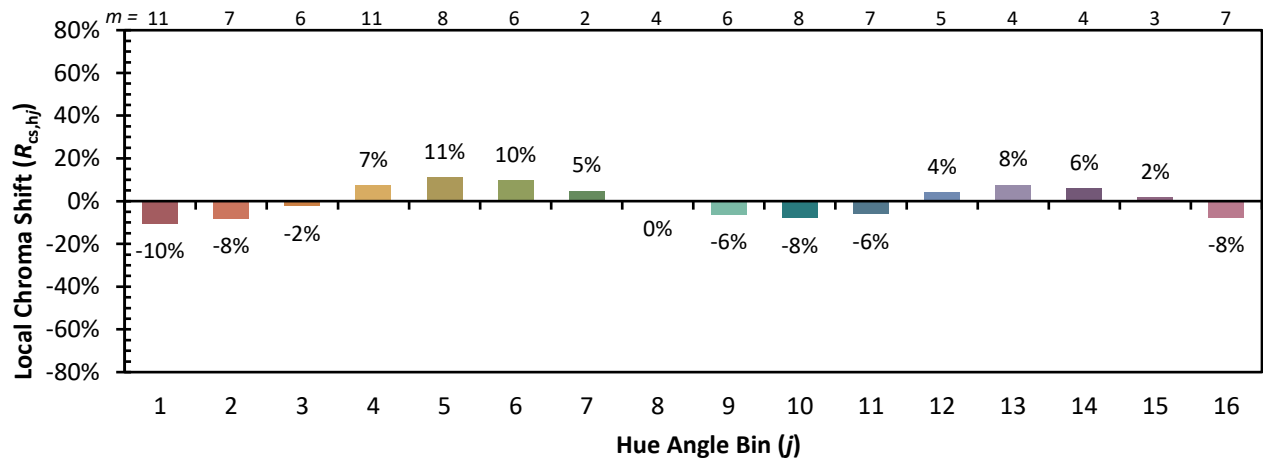


Individual Sample Fidelity Index ($R_{f,i}$)

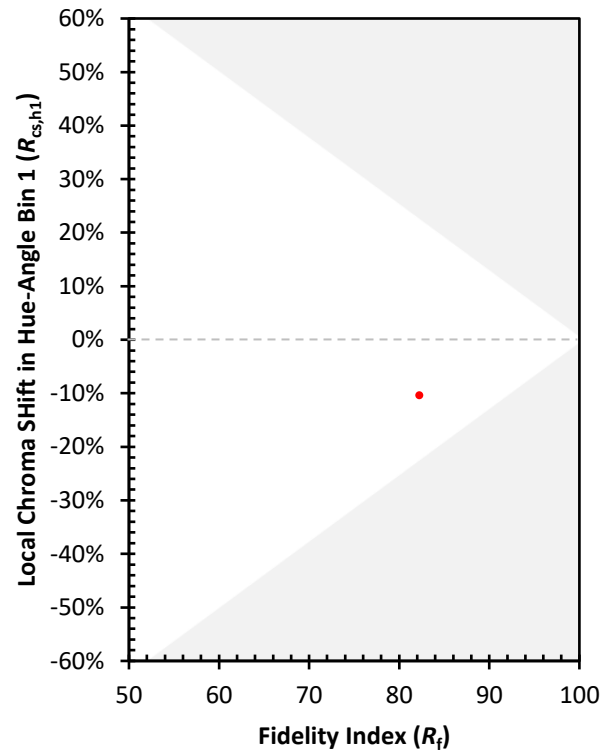
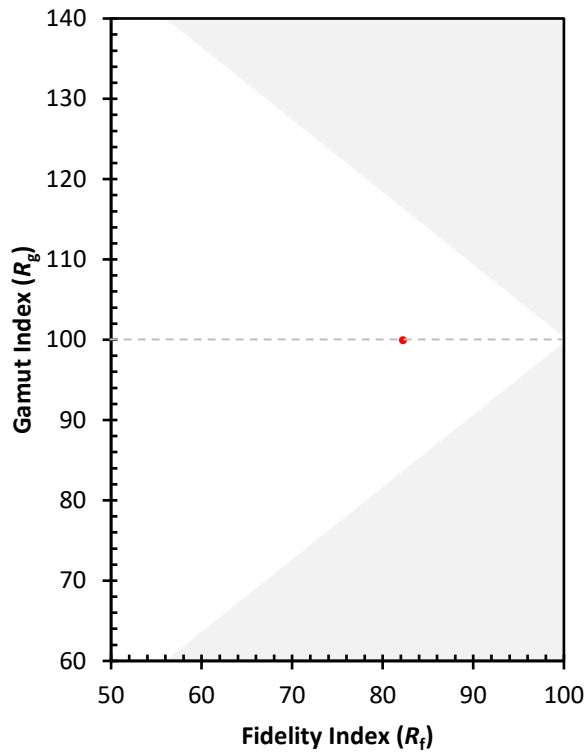
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)