

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: P1067088

Luminaire Tested: **NAV-SA3D-827-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067088
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-827-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14020.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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

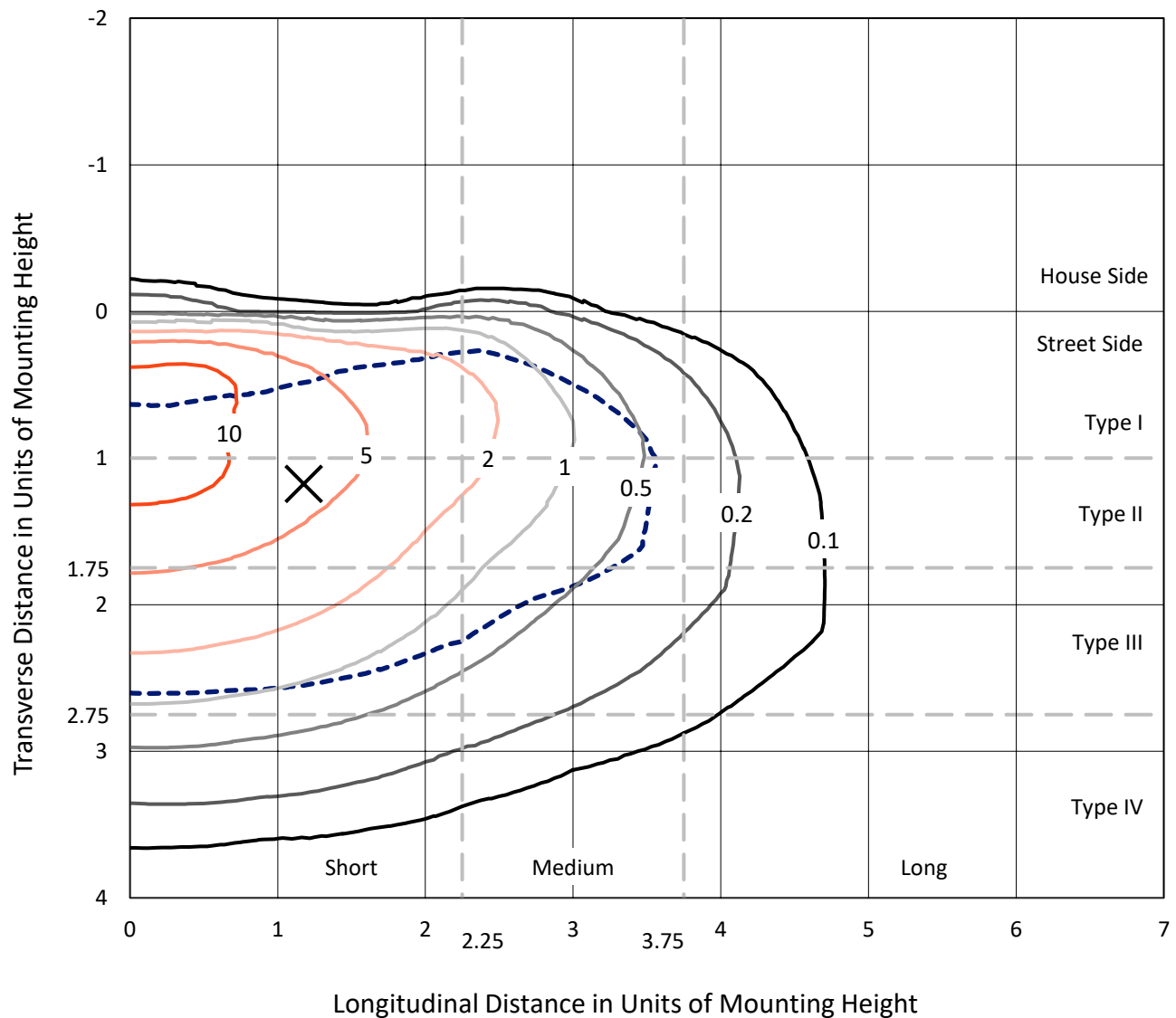


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

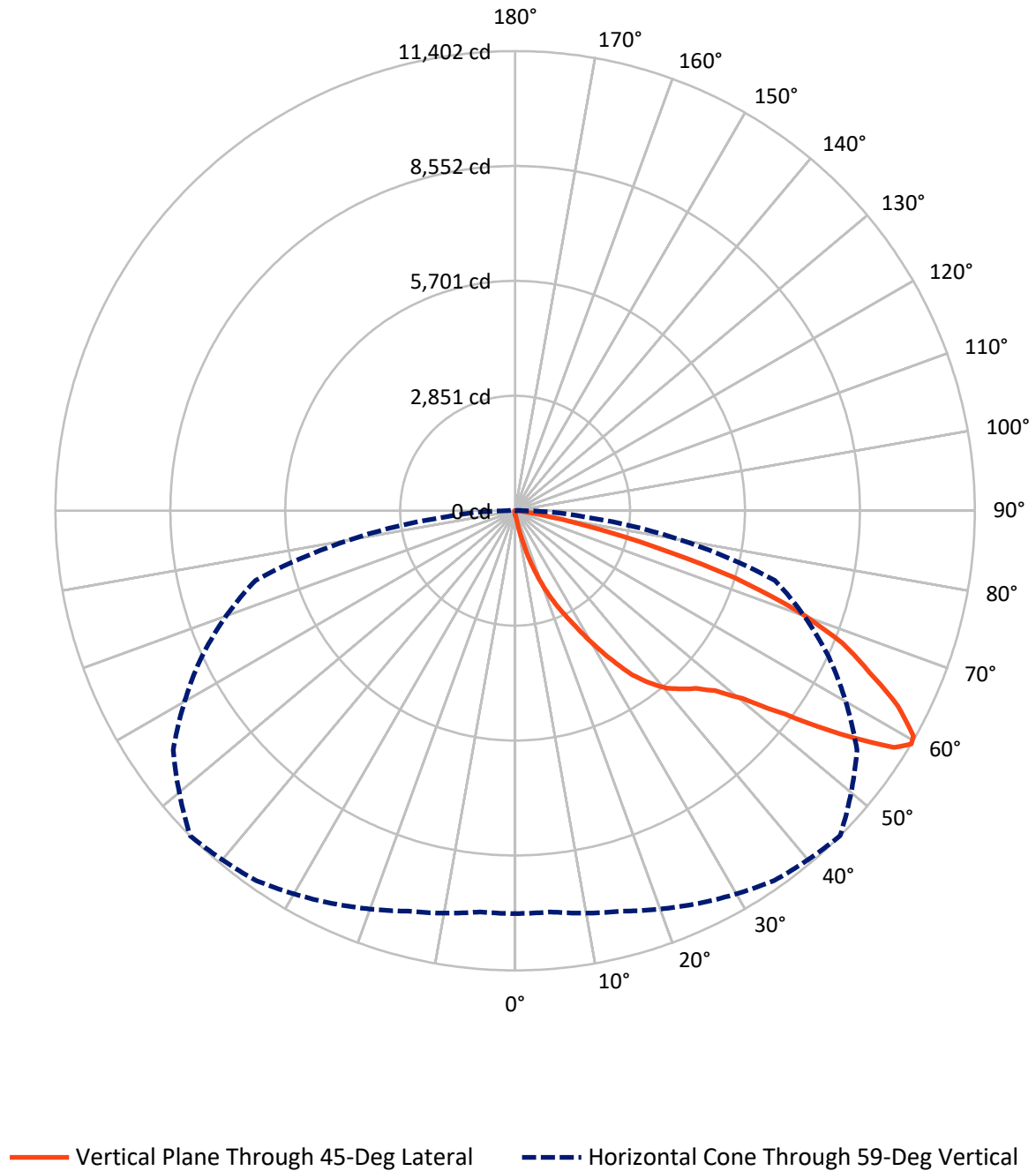


Based on 15 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49.8	0.0	49.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	13970.4	0.0	13970.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	14020.1	0.0	14020.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.1
10°-20°	155.0	1.1
20°-30°	556.8	4.0
30°-40°	1293.9	9.2
40°-50°	2205.3	15.7
50°-60°	3633.7	25.9
60°-70°	4201.4	30.0
70°-80°	1805.1	12.9
80°-90°	156.0	1.1
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°	14020.1	100.0
0°-180°	14020.1	100.0



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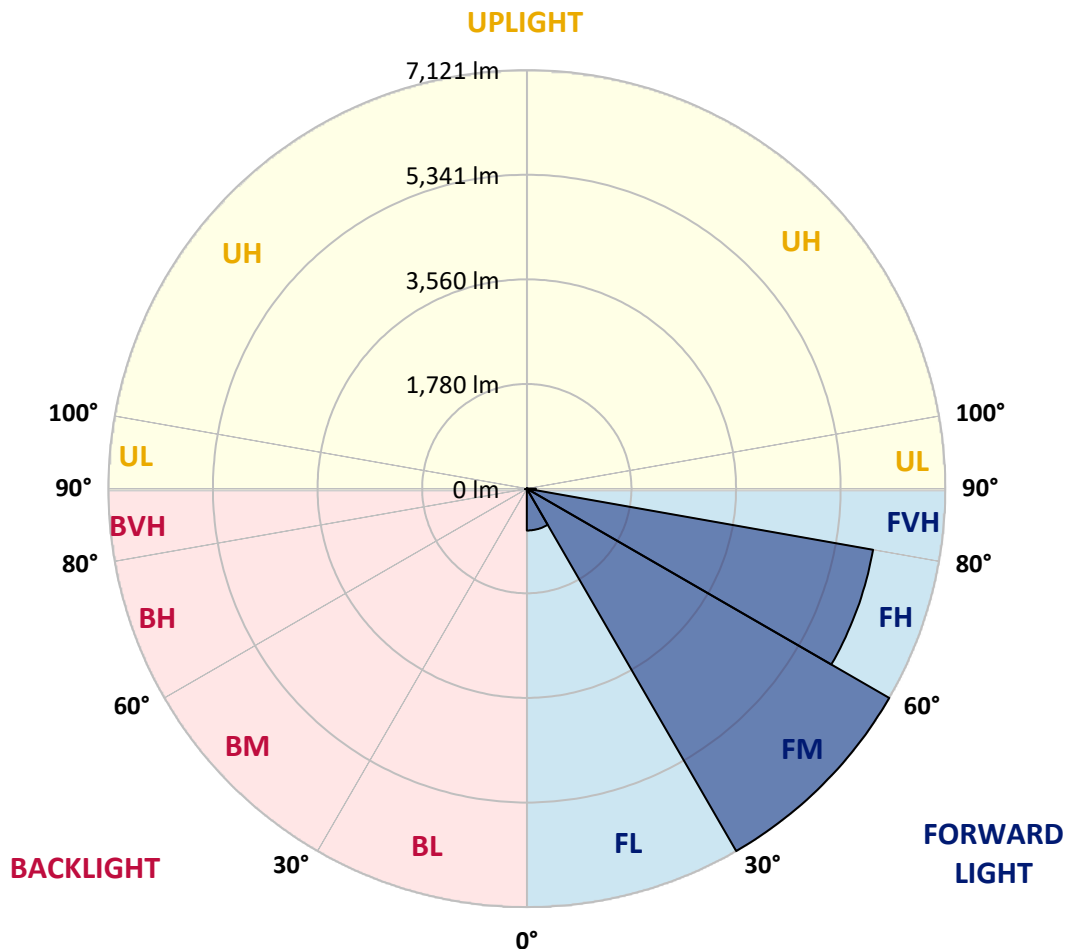
CATALOG NUMBER: NAV-SA3D-827-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.5	5.1			
FM	(30°-60°)	7120.9	50.8			
FH	(60°-80°)	5983.0	42.7			G3/7500
FVH	(80°-90°)	154.0	1.1			G2/225
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	12.0	0.1	B0/220		
BH	(60°-80°)	23.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	115.0	115.0	112.2	108.4	107.5	104.6	104.6	101.8	98.0	95.2	91.4
5°	166.9	165.9	158.4	148.9	136.7	129.2	129.2	118.8	109.4	100.9	93.3
7.5°	364.8	356.3	329.0	283.8	224.4	184.8	181.9	148.0	125.4	108.4	94.3
10°	837.1	807.9	769.3	660.8	488.3	341.3	334.7	215.9	149.9	116.9	96.2
12.5°	1371.7	1395.2	1317.9	1147.3	945.5	703.3	656.1	363.9	198.0	128.2	98.0
15°	1858.1	1852.4	1809.1	1669.6	1436.7	1114.3	1085.1	632.6	283.8	146.1	99.9
17.5°	2222.0	2215.4	2173.9	2084.4	1905.2	1582.8	1557.4	1008.7	445.0	171.6	101.8
20°	2605.7	2597.2	2538.7	2467.1	2310.6	2036.3	2006.1	1429.2	696.7	213.1	101.8
22.5°	3065.7	3049.7	2987.5	2865.9	2700.9	2462.4	2435.0	1859.0	1008.7	280.9	106.5
25°	3621.9	3594.6	3508.8	3399.4	3200.5	2883.8	2854.6	2337.9	1384.9	383.7	111.2
27.5°	4256.4	4261.1	4145.1	3960.4	3693.6	3370.2	3315.5	2766.9	1774.2	530.8	116.9
30°	5009.6	4962.5	4799.4	4584.4	4325.2	3913.2	3860.4	3193.9	2211.6	747.6	126.3
32.5°	5714.8	5663.9	5444.2	5173.6	4895.5	4460.9	4417.6	3673.8	2609.4	1004.0	143.3
35°	6320.0	6284.2	5976.8	5646.9	5399.9	5011.5	4998.3	4209.2	3077.0	1280.2	162.1
37.5°	6852.6	6787.6	6392.6	6050.4	5799.6	5451.7	5423.5	4699.5	3527.7	1600.7	190.4
40°	7307.0	7271.2	6789.5	6339.8	6136.2	5825.1	5789.2	5129.3	3993.4	1973.1	225.3
42.5°	7793.5	7746.3	7278.7	6774.4	6399.2	6066.4	6042.8	5483.8	4408.2	2382.3	277.2
45°	8343.1	8255.4	7845.3	7392.8	6822.5	6316.2	6289.8	5799.6	4833.3	2821.6	340.3
47.5°	8930.4	8854.0	8522.2	8204.5	7548.4	6728.2	6671.6	6068.3	5255.7	3328.7	420.5
50°	9528.1	9530.0	9281.1	9128.4	8435.5	7397.5	7317.4	6463.3	5699.7	3871.7	539.2
52.5°	10223.8	10241.7	10237.9	10124.8	9587.5	8492.0	8384.5	7062.9	6215.3	4505.3	703.3
55°	10515.1	10547.1	10755.5	11006.3	10860.1	9879.7	9764.7	8097.0	6898.8	5211.4	946.5
57.5°	10276.6	10312.4	10599.9	11039.2	11374.9	11094.9	11081.7	9443.2	7799.1	6067.3	1344.3
59°	9992.8	9988.1	10283.2	10748.9	11201.4	11383.3	11402.2	10353.9	8583.5	6667.9	1687.5
60°	9804.3	9808.1	10004.1	10482.1	10962.9	11278.7	11352.2	10890.3	9041.6	7099.6	1981.6
62.5°	9076.5	9119.9	9275.4	9719.4	10175.7	10528.3	10653.7	11368.3	10352.9	8119.6	3004.4
65°	8285.6	8288.4	8509.9	8889.8	9327.3	9575.2	9654.4	10624.4	11228.7	9158.5	4345.9
67.5°	6874.3	6931.8	7183.5	7799.1	8377.0	8690.9	8751.3	9248.1	10865.8	9835.4	5018.1
70°	4810.7	4886.1	5245.3	6043.8	6904.5	7420.1	7416.4	7687.9	9562.9	9533.7	4254.5
72.5°	2402.0	2532.1	2825.3	3680.4	4723.0	5532.8	5703.5	6184.2	7682.2	7918.8	3174.1
75°	1061.5	1069.0	1235.9	1666.7	2347.4	3375.9	3528.6	4908.7	5893.9	5503.6	2292.7
77.5°	617.5	623.1	653.3	748.5	951.2	1654.5	1826.0	3219.4	4164.9	3198.6	1495.2
80°	224.4	230.0	229.1	283.8	416.7	651.4	725.9	1560.2	2778.2	1684.6	783.4
82.5°	137.6	137.6	132.9	133.9	151.8	249.8	273.4	664.6	1352.8	829.6	224.4
85°	67.9	71.6	76.4	85.8	101.8	123.5	131.0	190.4	455.3	200.8	53.7
87.5°	40.5	41.5	45.3	54.7	67.9	88.6	94.3	129.2	163.1	134.8	13.2
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-SA3D-827-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	89.6	88.6	83.9	80.1	76.4	72.6	69.8	66.9	66.9	67.9	66.9
5°	89.6	85.8	78.2	71.6	66.0	61.3	56.6	52.8	51.8	51.8	52.8
7.5°	88.6	83.9	73.5	65.0	57.5	50.9	46.2	41.5	40.5	41.5	40.5
10°	87.7	82.0	69.8	59.4	49.0	42.4	35.8	31.1	31.1	31.1	32.1
12.5°	87.7	79.2	66.0	53.7	42.4	34.9	28.3	23.6	22.6	22.6	22.6
15°	86.7	77.3	62.2	47.1	35.8	26.4	20.7	16.0	16.0	16.0	16.0
17.5°	84.8	74.5	57.5	41.5	28.3	19.8	14.1	9.4	9.4	11.3	11.3
20°	83.0	71.6	51.8	33.9	23.6	15.1	9.4	5.7	5.7	8.5	9.4
22.5°	83.9	71.6	48.1	30.2	18.9	11.3	7.5	4.7	3.8	6.6	8.5
25°	84.8	69.8	43.4	26.4	14.1	8.5	5.7	1.9	0.9	1.9	2.8
27.5°	84.8	67.9	37.7	20.7	10.4	6.6	2.8	0.0	0.0	0.0	0.0
30°	83.9	65.0	33.0	17.0	7.5	3.8	0.9	0.0	0.0	0.0	0.0
32.5°	83.0	62.2	30.2	13.2	6.6	1.9	0.0	0.0	0.0	0.0	0.0
35°	83.9	58.4	26.4	10.4	3.8	0.0	0.0	0.0	0.0	0.0	1.9
37.5°	86.7	54.7	22.6	8.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	90.5	51.8	18.9	6.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	98.0	51.8	17.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	107.5	51.8	14.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	119.7	52.8	12.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	134.8	54.7	11.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	146.1	52.8	10.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	165.9	50.9	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	192.3	48.1	9.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	218.7	44.3	9.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	248.9	42.4	8.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	411.0	37.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	793.8	35.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1283.0	35.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1349.0	35.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	897.5	29.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	480.8	26.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	259.2	24.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	114.1	17.9	4.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.3	12.3	5.7	4.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	21.7	9.4	7.5	6.6	4.7	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	9.4	8.5	7.5	6.6	4.7	0.9	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

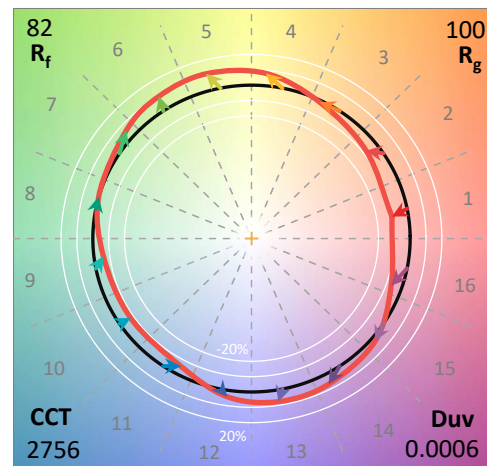
Test Information

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

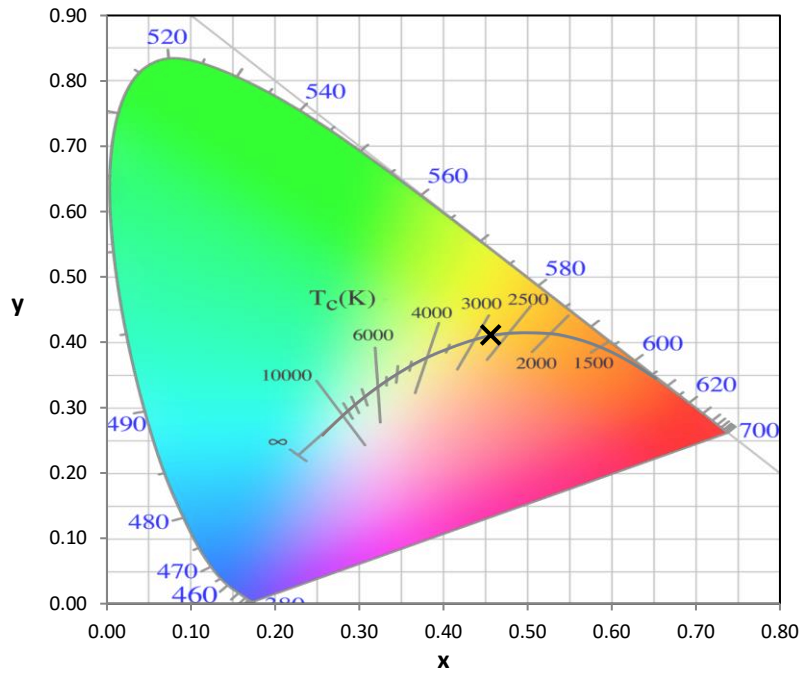
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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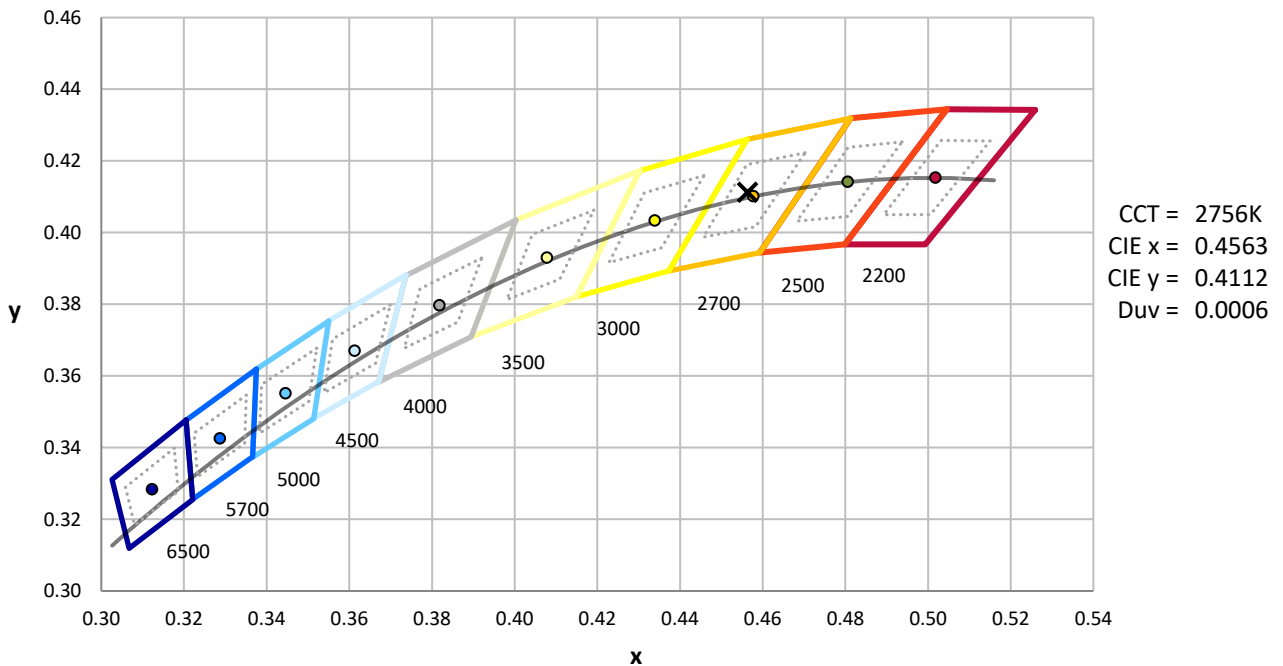
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



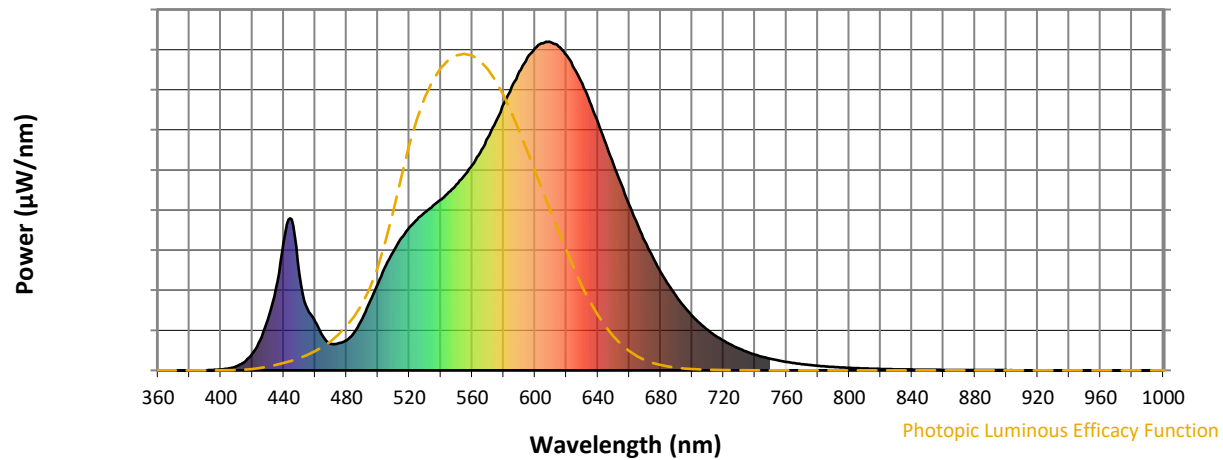
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

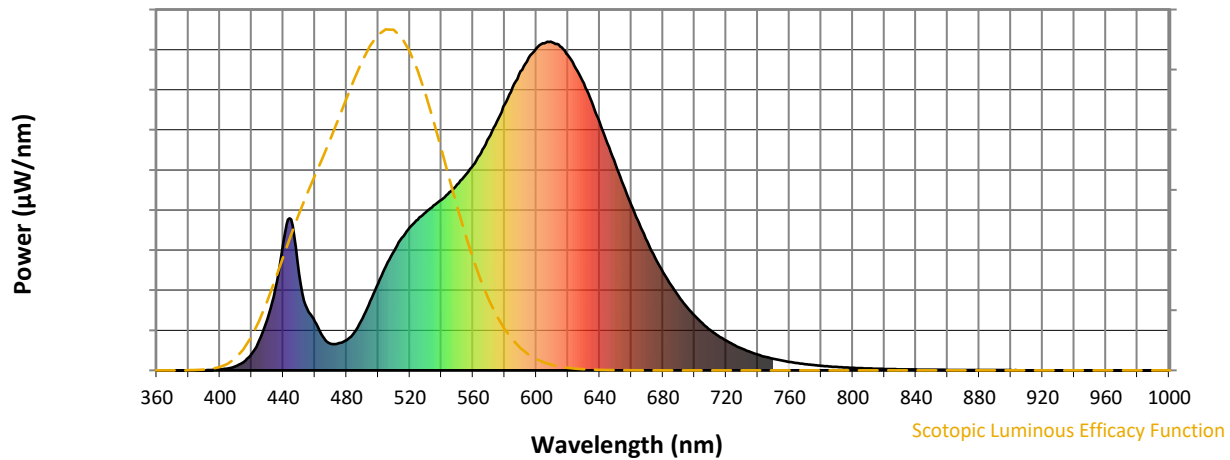


Photopic Lumens: NR

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



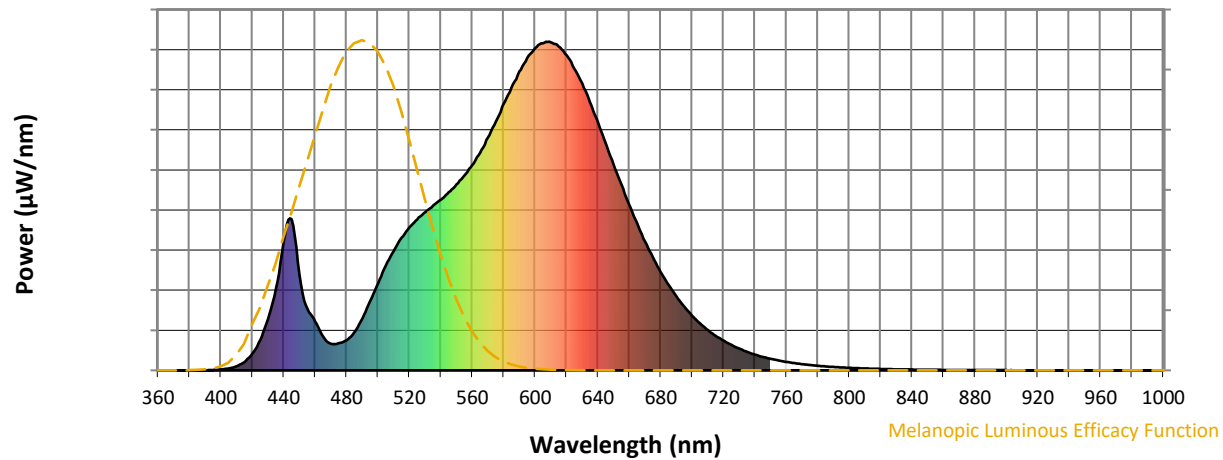
Scotopic Lumens: NR

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

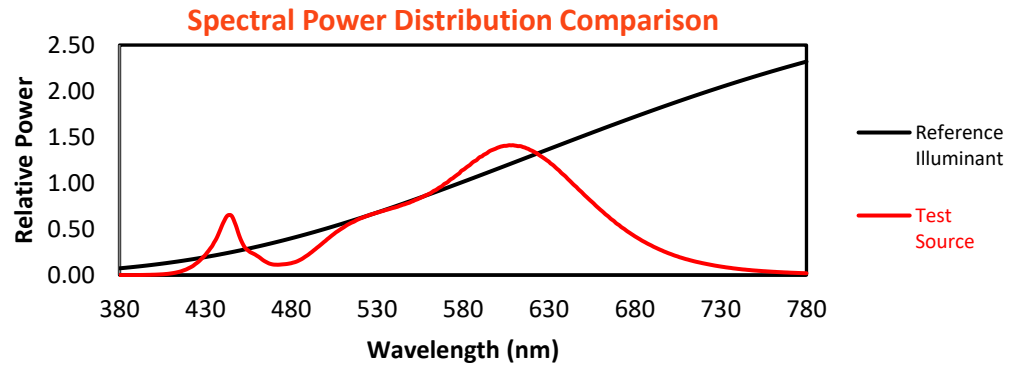
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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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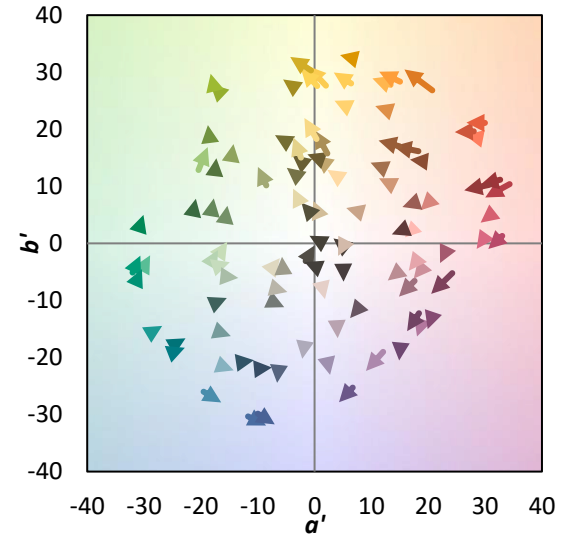
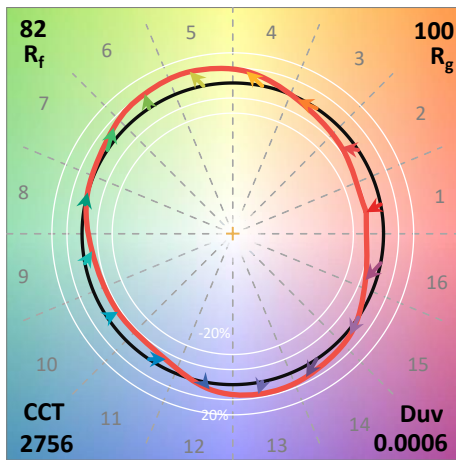
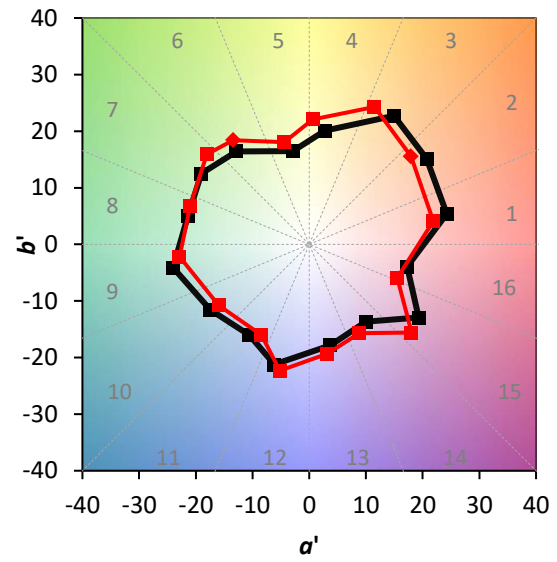
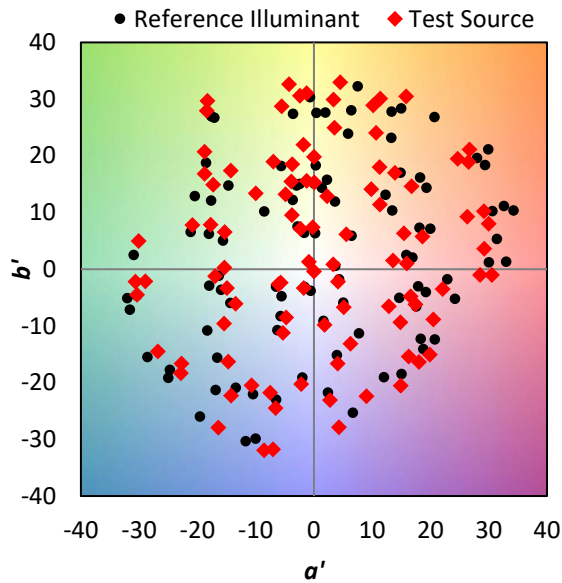
TM-30-18

Summary

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

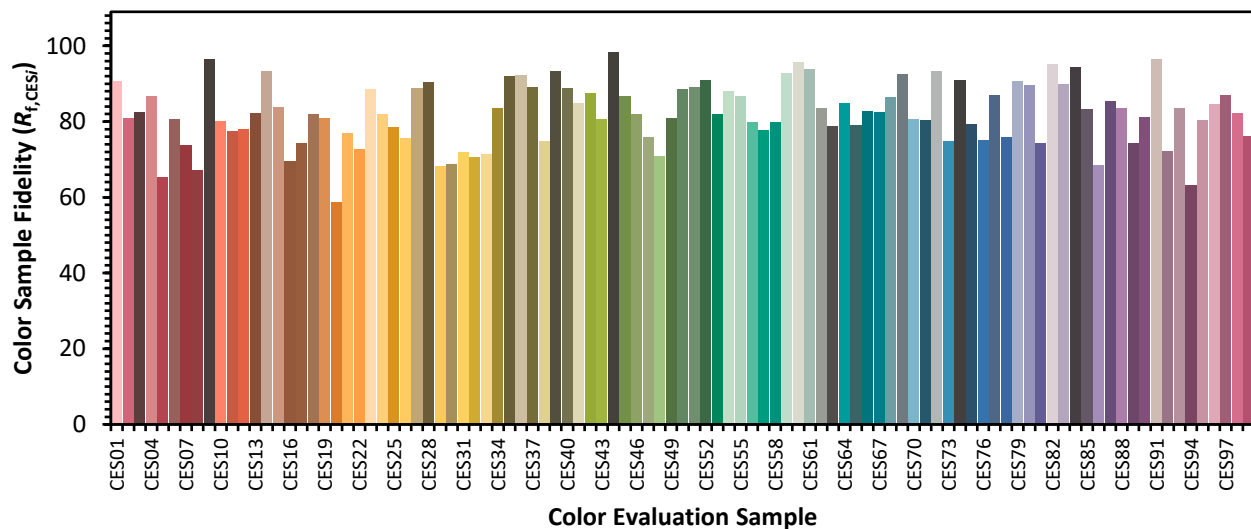


Color Vector Graphics

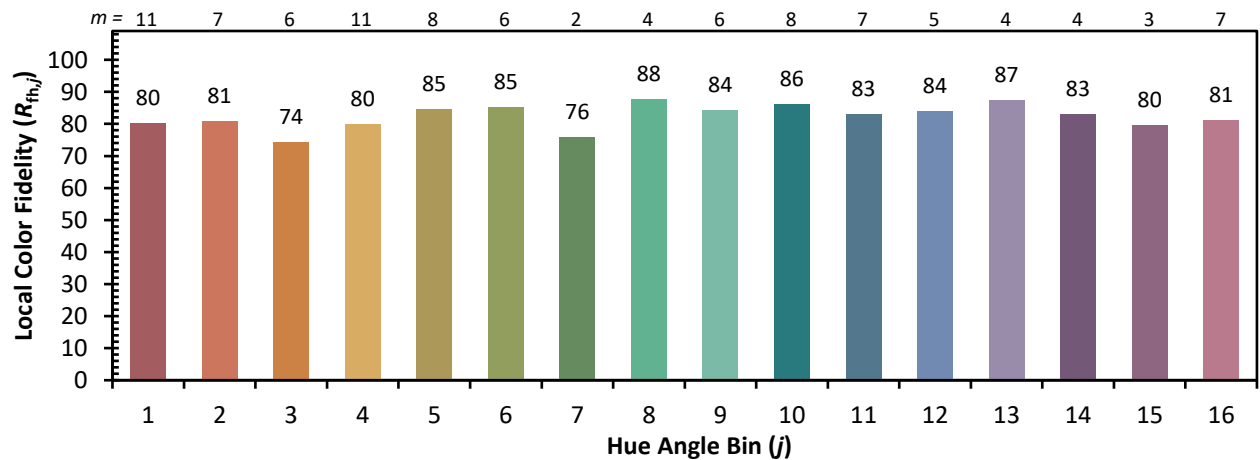
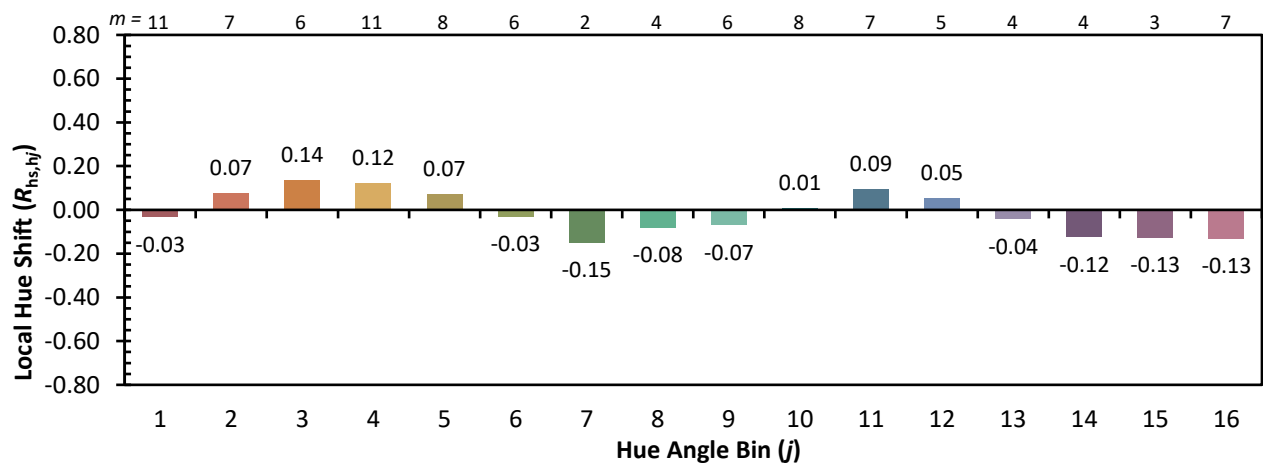
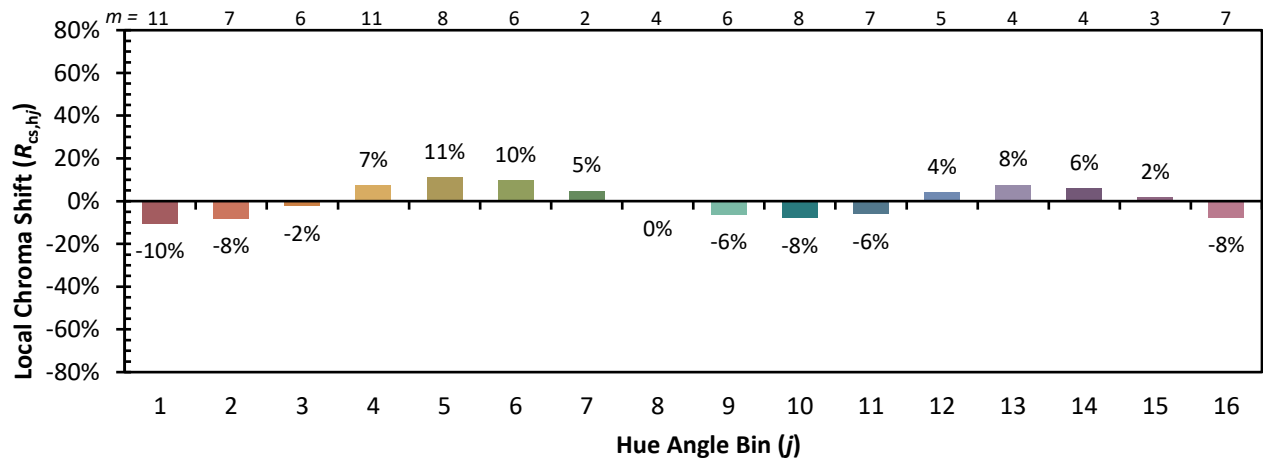


Individual Sample Fidelity Index ($R_{f,i}$)

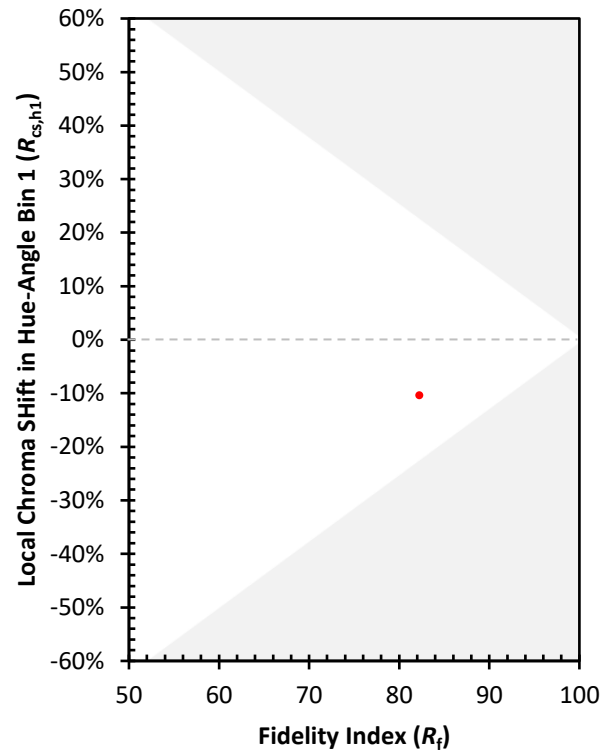
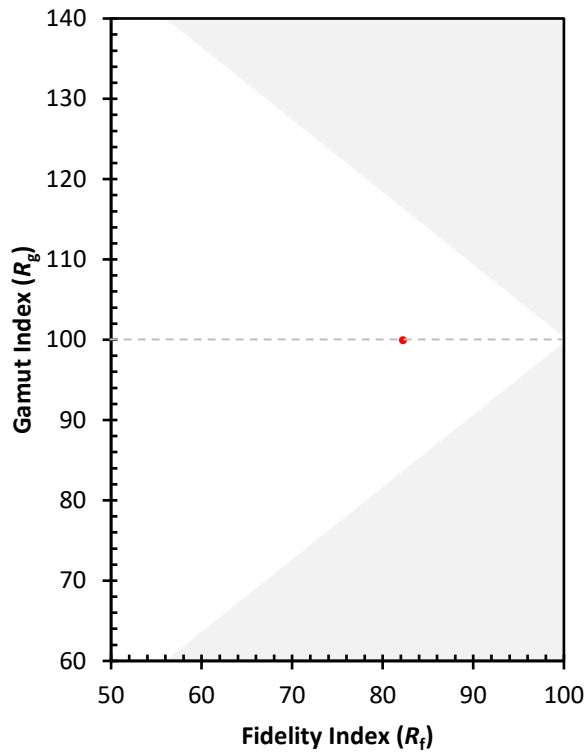
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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)