

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: P1067109

Luminaire Tested: **NAV-SA3A-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067109
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8904.8 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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

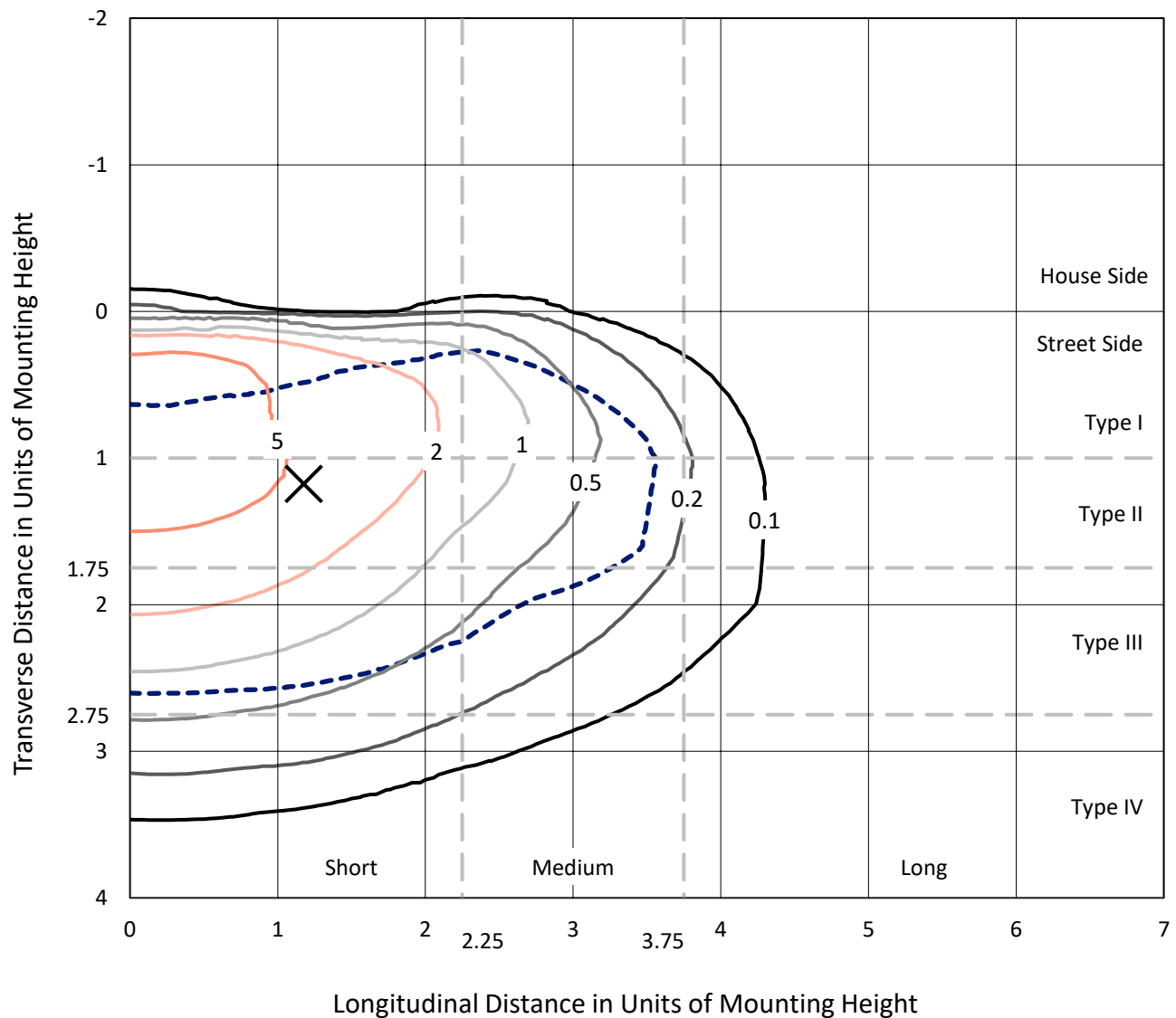


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

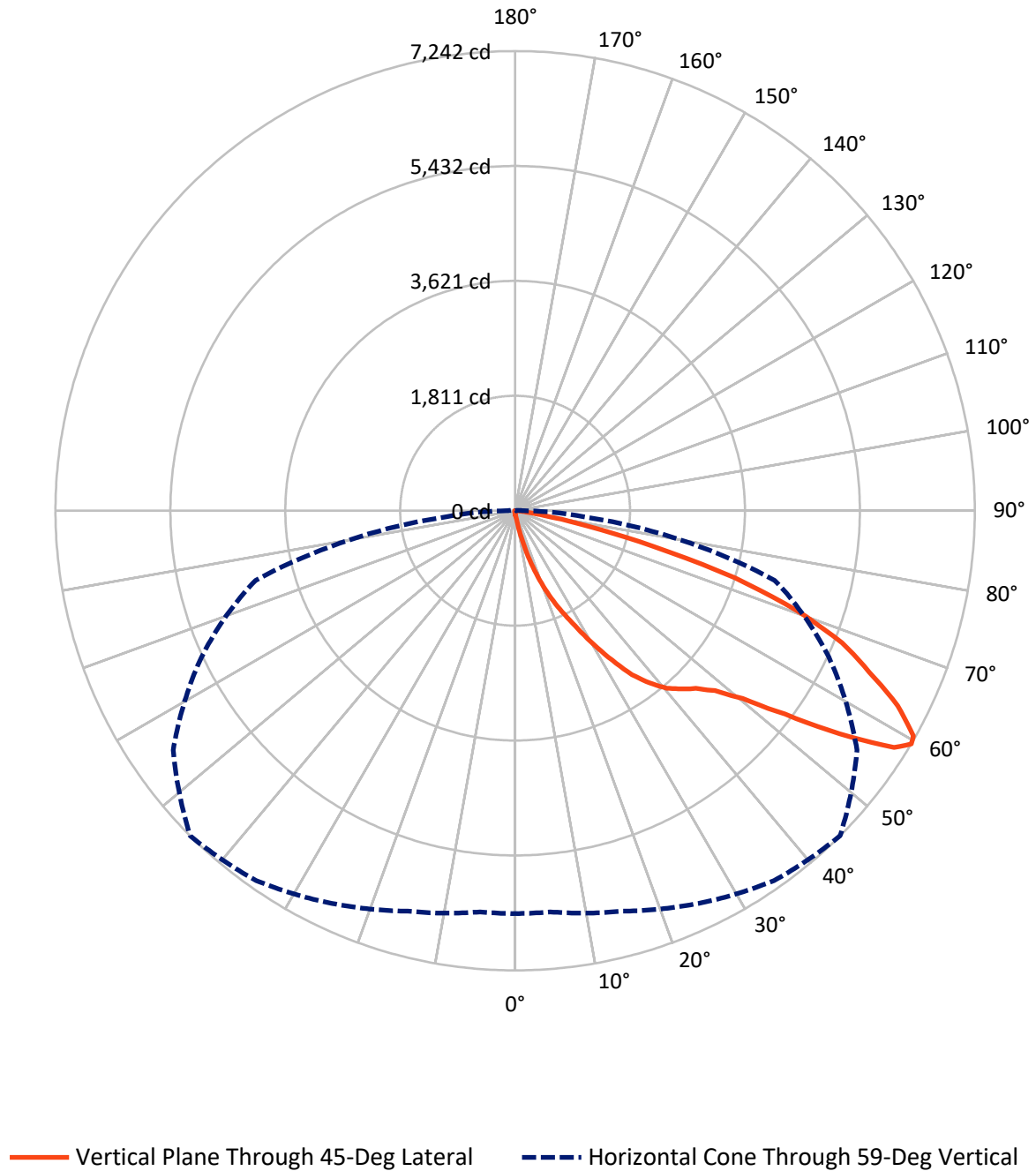


Based on 15 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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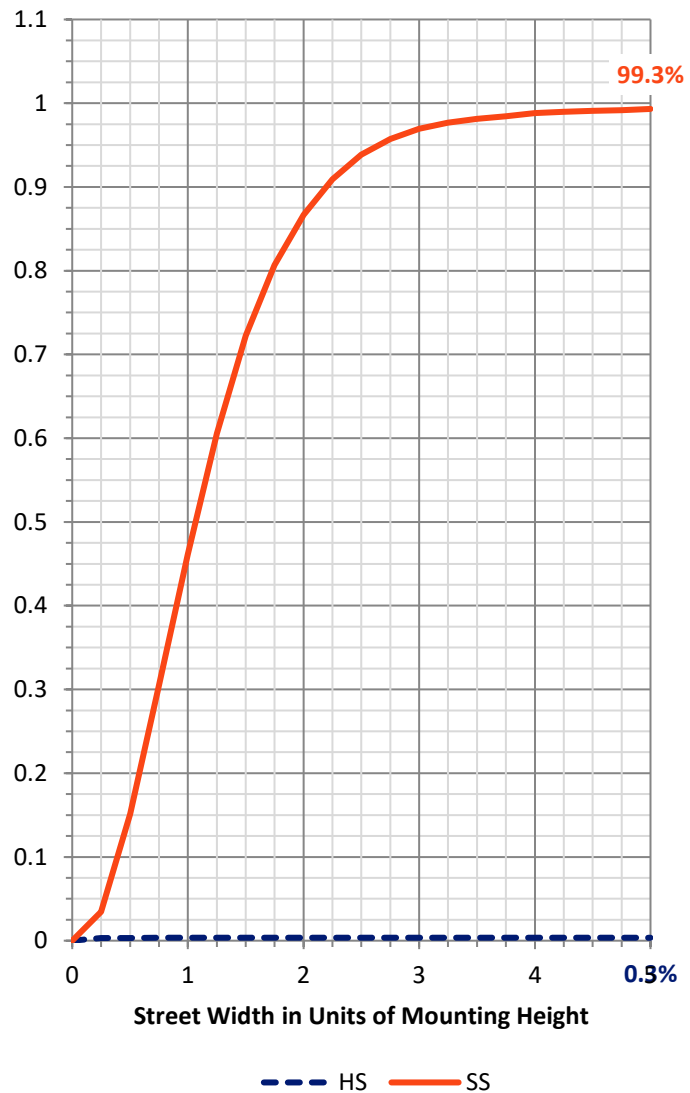
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31.6	0.0	31.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	8873.2	0.0	8873.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	8904.8	0.0	8904.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.1
10°-20°	98.4	1.1
20°-30°	353.7	4.0
30°-40°	821.8	9.2
40°-50°	1400.7	15.7
50°-60°	2307.9	25.9
60°-70°	2668.5	30.0
70°-80°	1146.5	12.9
80°-90°	99.1	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°	8904.8	100.0
0°-180°	8904.8	100.0



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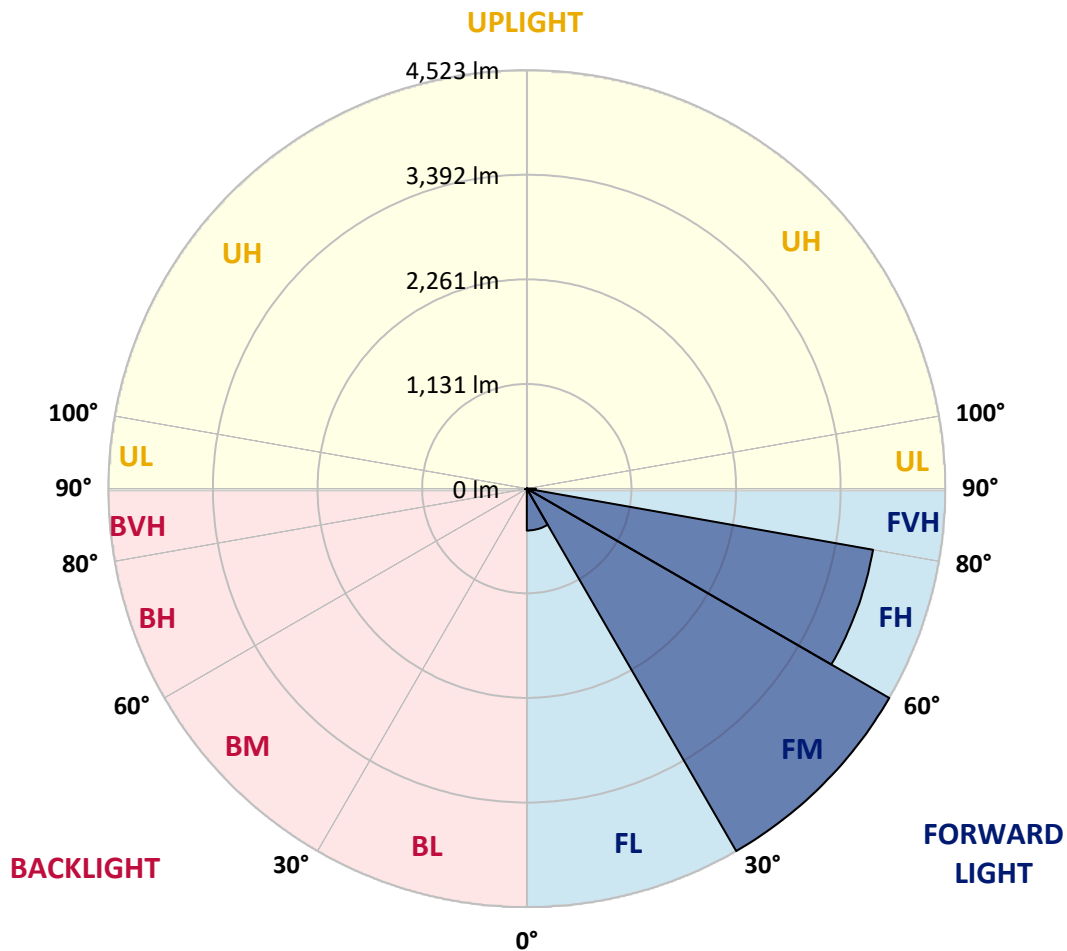
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.6	5.1			
FM	(30°-60°)	4522.8	50.8			
FH	(60°-80°)	3800.1	42.7			G2/5000
FVH	(80°-90°)	97.8	1.1			G1/100
BL	(0°-30°)	7.8	0.1	B0/110		
BM	(30°-60°)	7.6	0.1	B0/220		
BH	(60°-80°)	14.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2.5°	73.0	73.0	71.3	68.9	68.3	66.5	66.5	64.7	62.3	60.5	58.1
5°	106.0	105.4	100.6	94.6	86.8	82.0	82.0	75.4	69.5	64.1	59.3
7.5°	231.7	226.3	209.0	180.2	142.5	117.4	115.6	94.0	79.6	68.9	59.9
10°	531.7	513.1	488.6	419.7	310.2	216.8	212.6	137.1	95.2	74.2	61.1
12.5°	871.2	886.2	837.1	728.7	600.6	446.7	416.7	231.1	125.7	81.4	62.3
15°	1180.2	1176.6	1149.0	1060.4	912.5	707.7	689.2	401.8	180.2	92.8	63.5
17.5°	1411.3	1407.1	1380.7	1323.9	1210.1	1005.3	989.2	640.7	282.6	109.0	64.7
20°	1655.0	1649.6	1612.5	1567.0	1467.6	1293.3	1274.2	907.7	442.5	135.3	64.7
22.5°	1947.2	1937.0	1897.5	1820.2	1715.5	1564.0	1546.6	1180.8	640.7	178.4	67.7
25°	2300.4	2283.1	2228.6	2159.1	2032.8	1831.6	1813.1	1484.9	879.6	243.7	70.7
27.5°	2703.4	2706.4	2632.8	2515.4	2346.0	2140.6	2105.8	1757.4	1126.9	337.1	74.2
30°	3181.8	3151.9	3048.3	2911.8	2747.1	2485.5	2451.9	2028.6	1404.7	474.8	80.2
32.5°	3629.7	3597.4	3457.9	3286.0	3109.4	2833.3	2805.8	2333.4	1657.4	637.7	91.0
35°	4014.1	3991.4	3796.2	3586.6	3429.7	3183.0	3174.6	2673.5	1954.4	813.1	103.0
37.5°	4352.4	4311.1	4060.2	3842.9	3683.6	3462.6	3444.7	2984.8	2240.6	1016.7	121.0
40°	4641.0	4618.3	4312.3	4026.7	3897.3	3699.8	3677.0	3257.9	2536.4	1253.2	143.1
42.5°	4950.0	4920.0	4623.0	4302.7	4064.4	3853.0	3838.1	3483.0	2799.8	1513.1	176.0
45°	5299.0	5243.4	4982.9	4695.5	4333.2	4011.7	3994.9	3683.6	3069.9	1792.1	216.2
47.5°	5672.1	5623.6	5412.8	5211.0	4794.3	4273.4	4237.4	3854.2	3338.1	2114.2	267.0
50°	6051.7	6052.9	5894.8	5797.8	5357.7	4698.5	4647.6	4105.1	3620.1	2459.1	342.5
52.5°	6493.6	6505.0	6502.6	6430.7	6089.4	5393.7	5325.4	4485.9	3947.6	2861.5	446.7
55°	6678.6	6699.0	6831.3	6990.6	6897.7	6275.0	6202.0	5142.8	4381.7	3310.0	601.2
57.5°	6527.1	6549.9	6732.5	7011.5	7224.7	7046.8	7038.5	5997.8	4953.6	3853.6	853.8
59°	6346.9	6343.9	6531.3	6827.1	7114.5	7230.1	7242.0	6576.2	5451.7	4235.0	1071.8
60°	6227.1	6229.5	6354.1	6657.6	6963.0	7163.6	7210.3	6916.9	5742.7	4509.3	1258.6
62.5°	5764.9	5792.4	5891.2	6173.2	6463.0	6687.0	6766.6	7220.5	6575.6	5157.1	1908.3
65°	5262.5	5264.3	5405.0	5646.3	5924.2	6081.6	6131.9	6748.1	7131.9	5817.0	2760.3
67.5°	4366.2	4402.7	4562.6	4953.6	5320.6	5520.0	5558.3	5873.9	6901.3	6246.9	3187.2
70°	3055.5	3103.4	3331.5	3838.7	4385.3	4712.9	4710.5	4882.9	6073.8	6055.3	2702.2
72.5°	1525.6	1608.3	1794.5	2337.6	2999.8	3514.1	3622.5	3927.9	4879.3	5029.6	2016.0
75°	674.2	679.0	785.0	1058.6	1490.9	2144.2	2241.2	3117.8	3743.5	3495.6	1456.2
77.5°	392.2	395.8	414.9	475.4	604.2	1050.8	1159.8	2044.8	2645.3	2031.6	949.6
80°	142.5	146.1	145.5	180.2	264.7	413.7	461.0	991.0	1764.6	1070.0	497.6
82.5°	87.4	87.4	84.4	85.0	96.4	158.7	173.6	422.1	859.2	526.9	142.5
85°	43.1	45.5	48.5	54.5	64.7	78.4	83.2	121.0	289.2	127.5	34.1
87.5°	25.7	26.3	28.7	34.7	43.1	56.3	59.9	82.0	103.6	85.6	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067109

CATALOG NUMBER: NAV-SA3A-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2.5°	56.9	56.3	53.3	50.9	48.5	46.1	44.3	42.5	42.5	43.1	42.5
5°	56.9	54.5	49.7	45.5	41.9	38.9	35.9	33.5	32.9	32.9	33.5
7.5°	56.3	53.3	46.7	41.3	36.5	32.3	29.3	26.3	25.7	26.3	25.7
10°	55.7	52.1	44.3	37.7	31.1	26.9	22.8	19.8	19.8	19.8	20.4
12.5°	55.7	50.3	41.9	34.1	26.9	22.2	18.0	15.0	14.4	14.4	14.4
15°	55.1	49.1	39.5	29.9	22.8	16.8	13.2	10.2	10.2	10.2	10.2
17.5°	53.9	47.3	36.5	26.3	18.0	12.6	9.0	6.0	6.0	7.2	7.2
20°	52.7	45.5	32.9	21.6	15.0	9.6	6.0	3.6	3.6	5.4	6.0
22.5°	53.3	45.5	30.5	19.2	12.0	7.2	4.8	3.0	2.4	4.2	5.4
25°	53.9	44.3	27.5	16.8	9.0	5.4	3.6	1.2	0.6	1.2	1.8
27.5°	53.9	43.1	24.0	13.2	6.6	4.2	1.8	0.0	0.0	0.0	0.0
30°	53.3	41.3	21.0	10.8	4.8	2.4	0.6	0.0	0.0	0.0	0.0
32.5°	52.7	39.5	19.2	8.4	4.2	1.2	0.0	0.0	0.0	0.0	0.0
35°	53.3	37.1	16.8	6.6	2.4	0.0	0.0	0.0	0.0	0.0	1.2
37.5°	55.1	34.7	14.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	57.5	32.9	12.0	4.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	62.3	32.9	10.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	68.3	32.9	9.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	76.0	33.5	7.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	85.6	34.7	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	92.8	33.5	6.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	105.4	32.3	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	122.1	30.5	6.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	138.9	28.1	6.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	158.1	26.9	5.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	261.1	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	504.2	22.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	814.9	22.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	856.8	22.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	570.0	18.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	305.4	16.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	164.7	15.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.5	11.4	3.0	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.7	7.8	3.6	3.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	13.8	6.0	4.8	4.2	3.0	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	6.0	5.4	4.8	4.2	3.0	0.6	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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

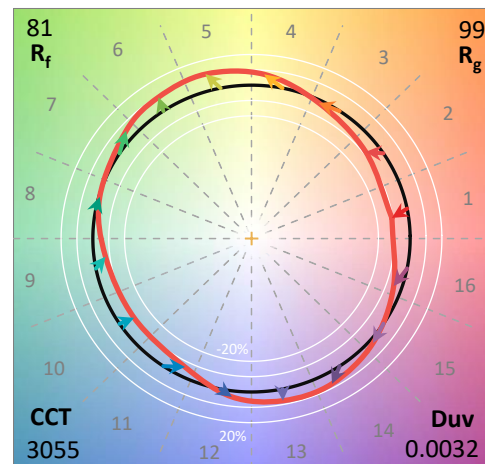
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

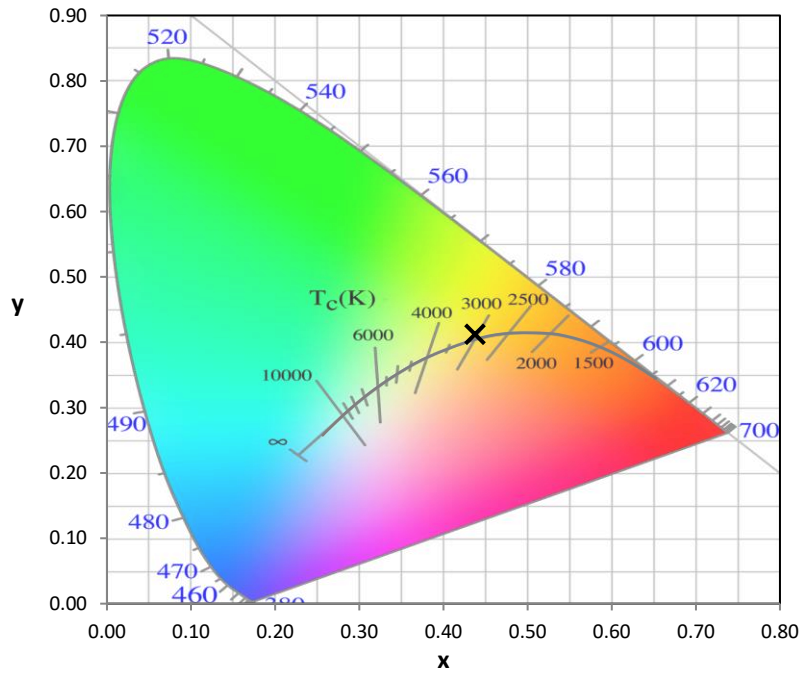
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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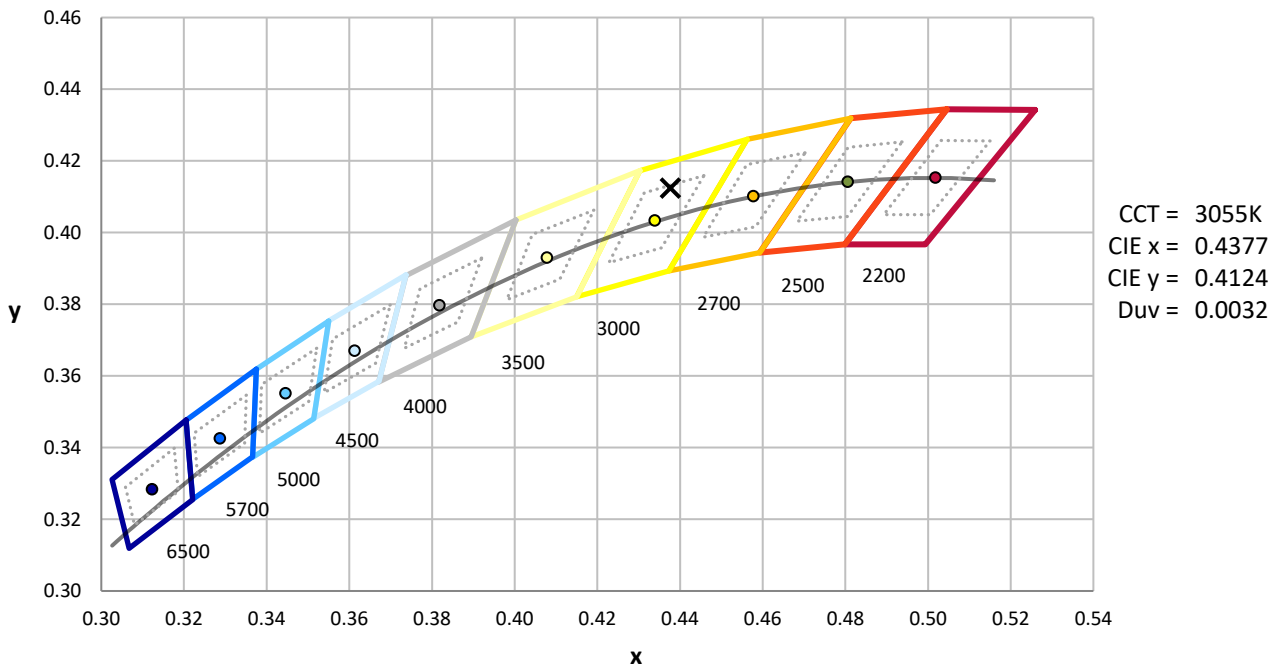
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



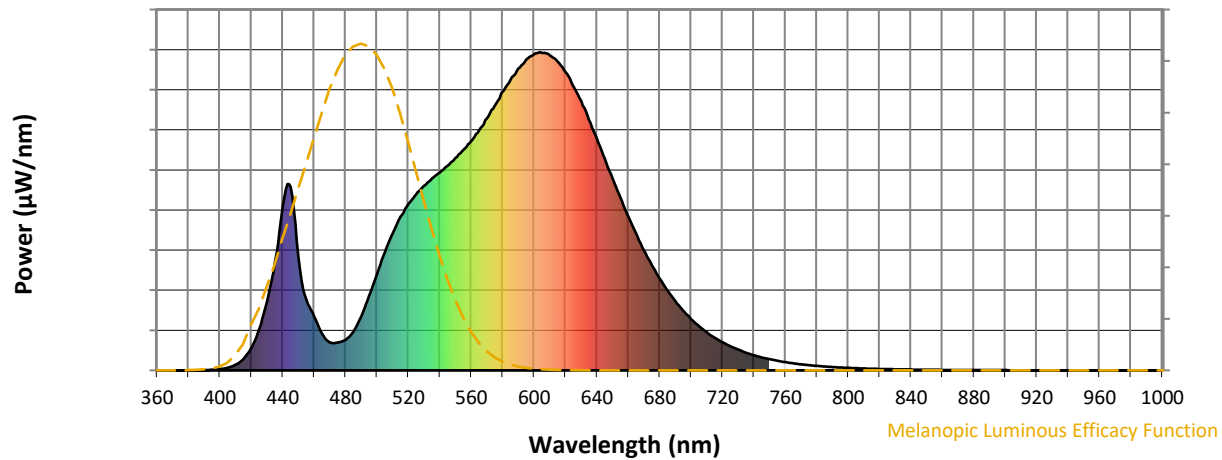
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

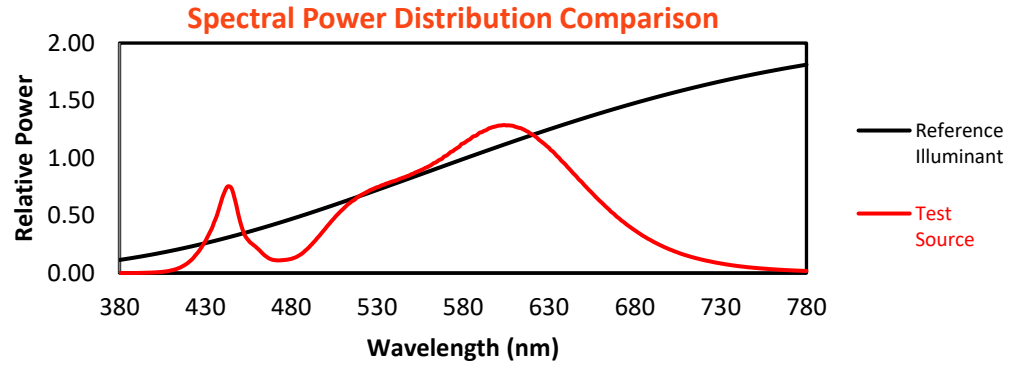
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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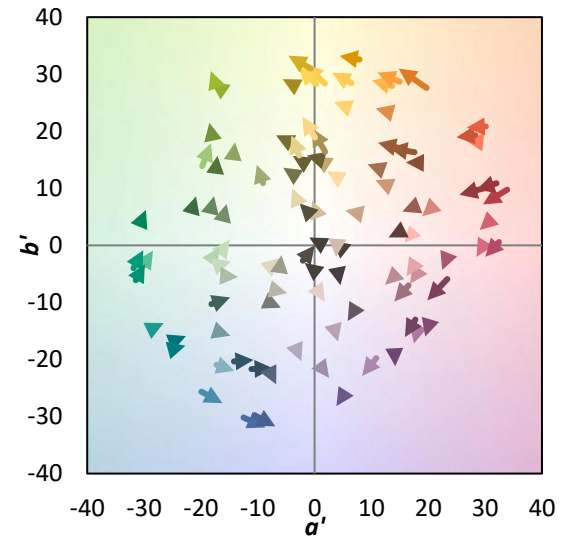
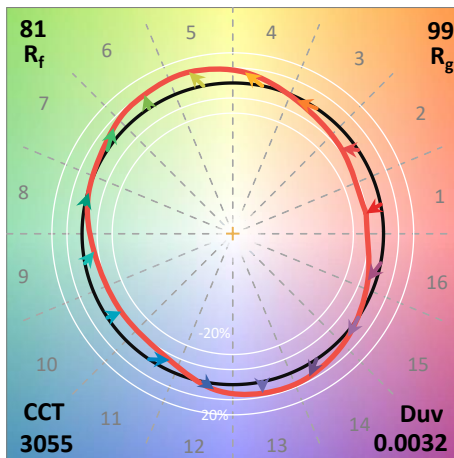
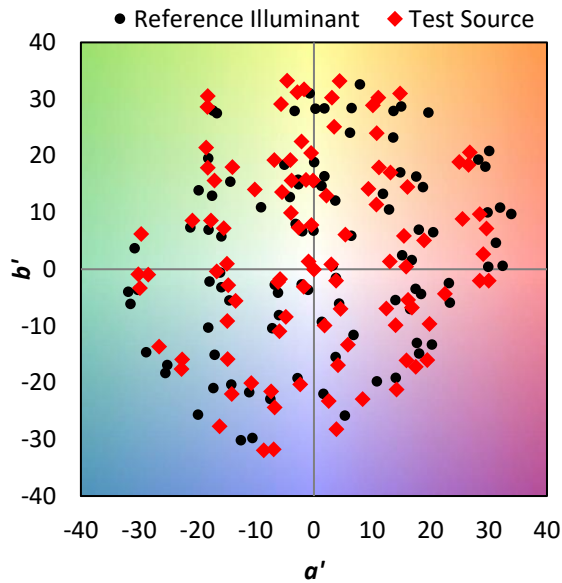
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

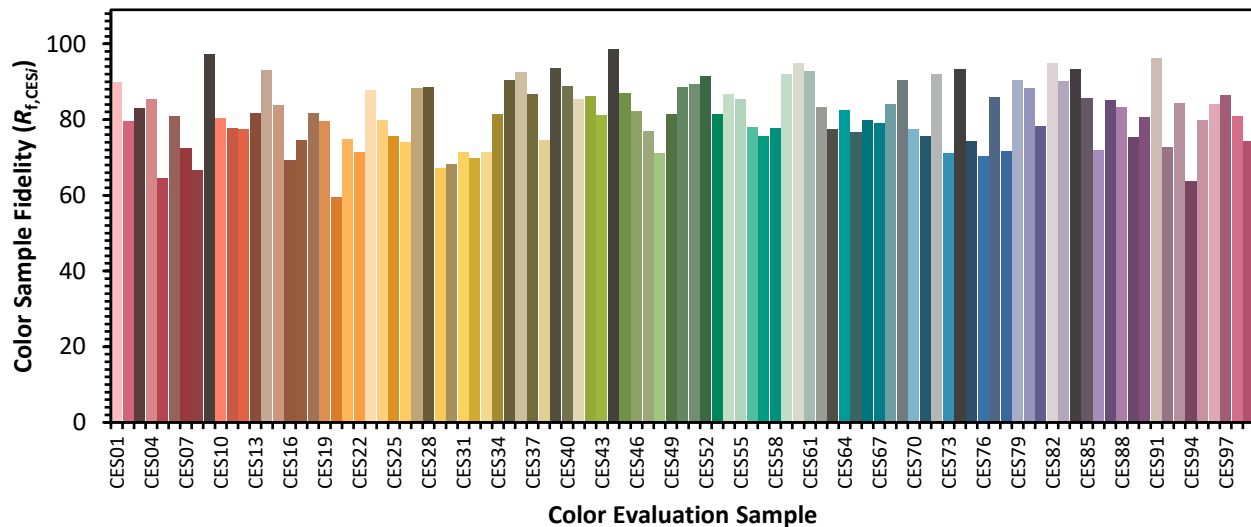


Color Vector Graphics

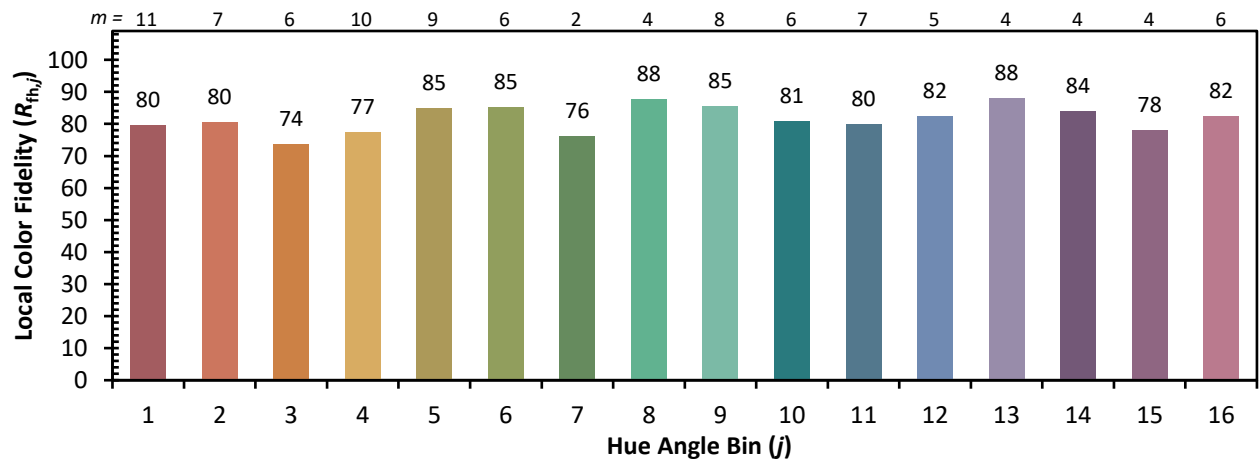
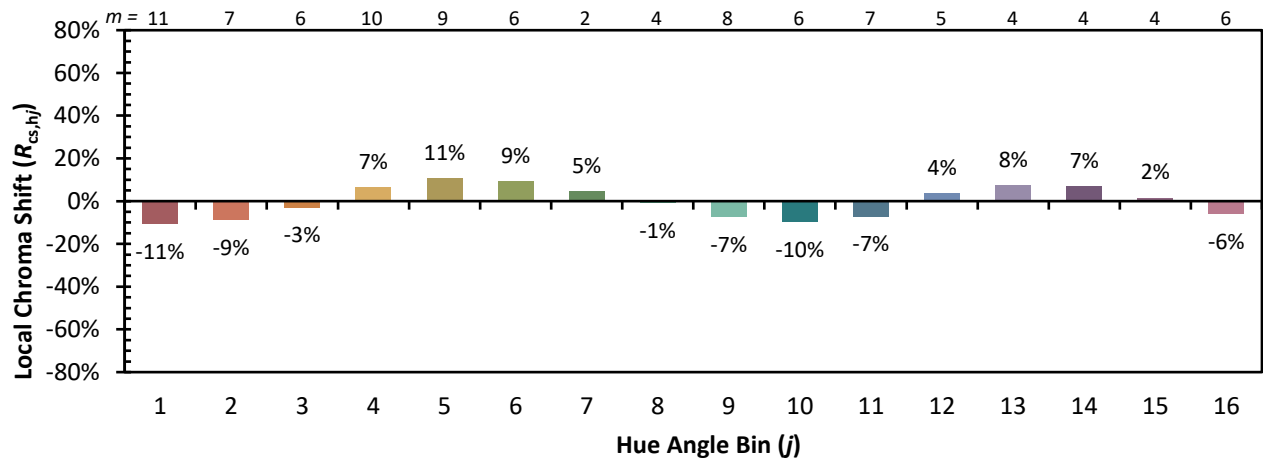


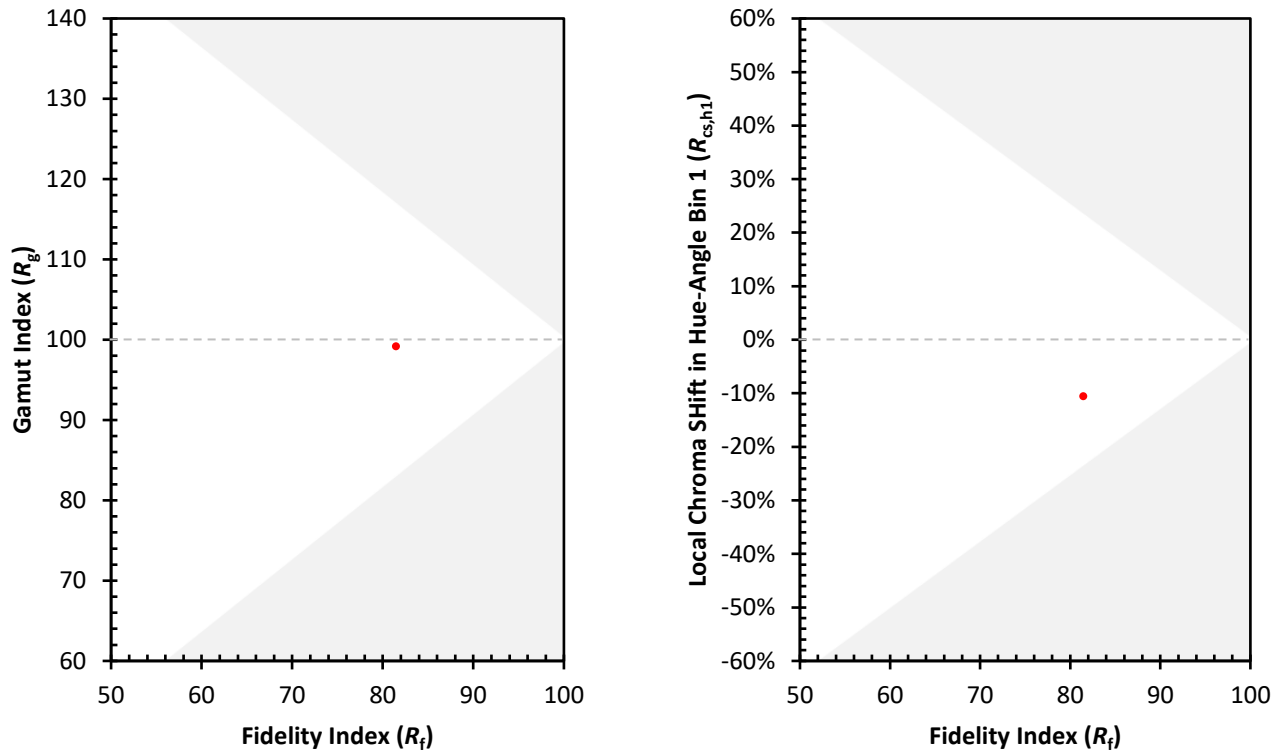
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)