

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: P1067110

Luminaire Tested: **NAV-SA3B-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067110
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 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: 11130 lumens
Efficiency: N/A
Efficacy: 104.8 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): 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

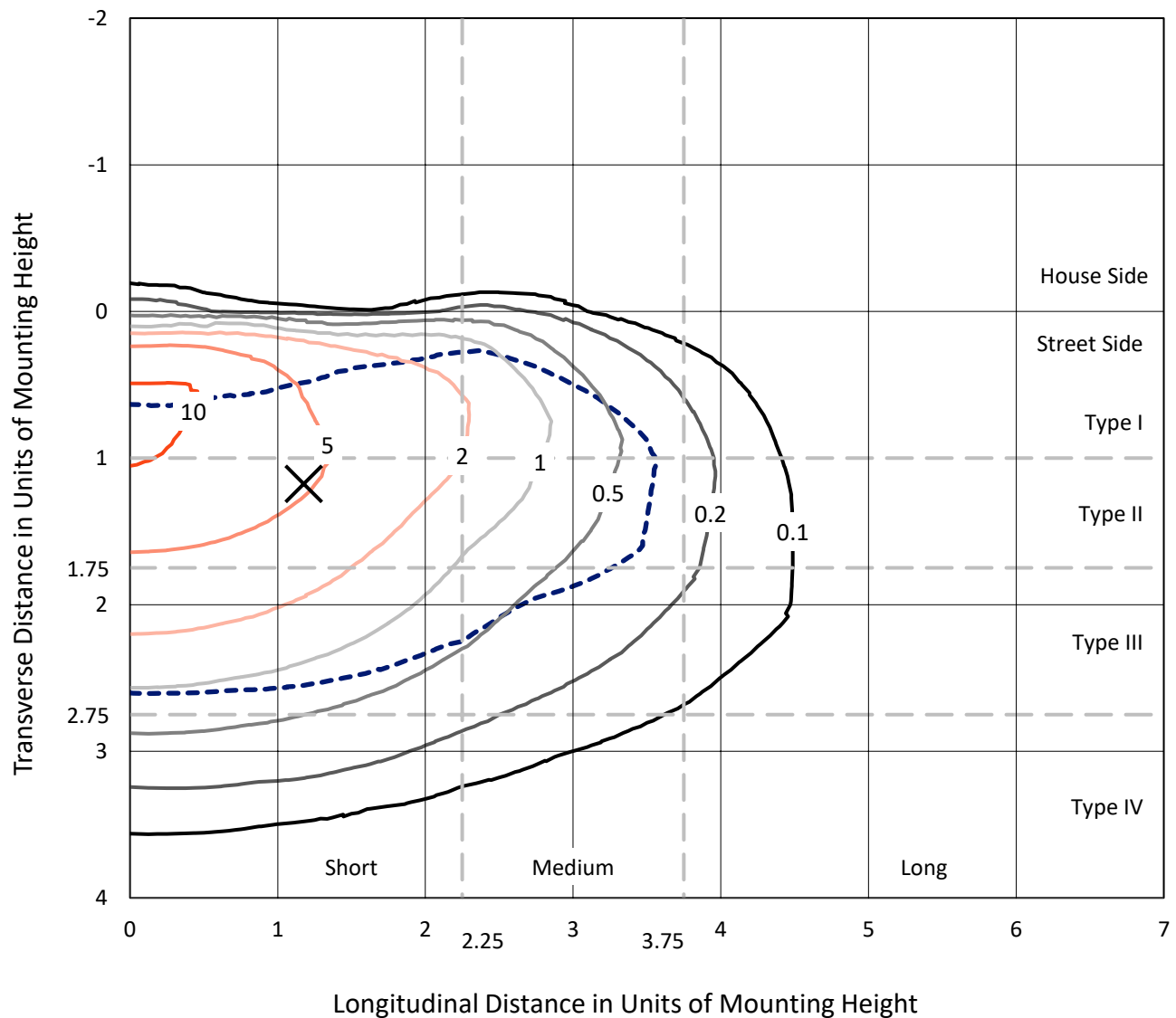


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

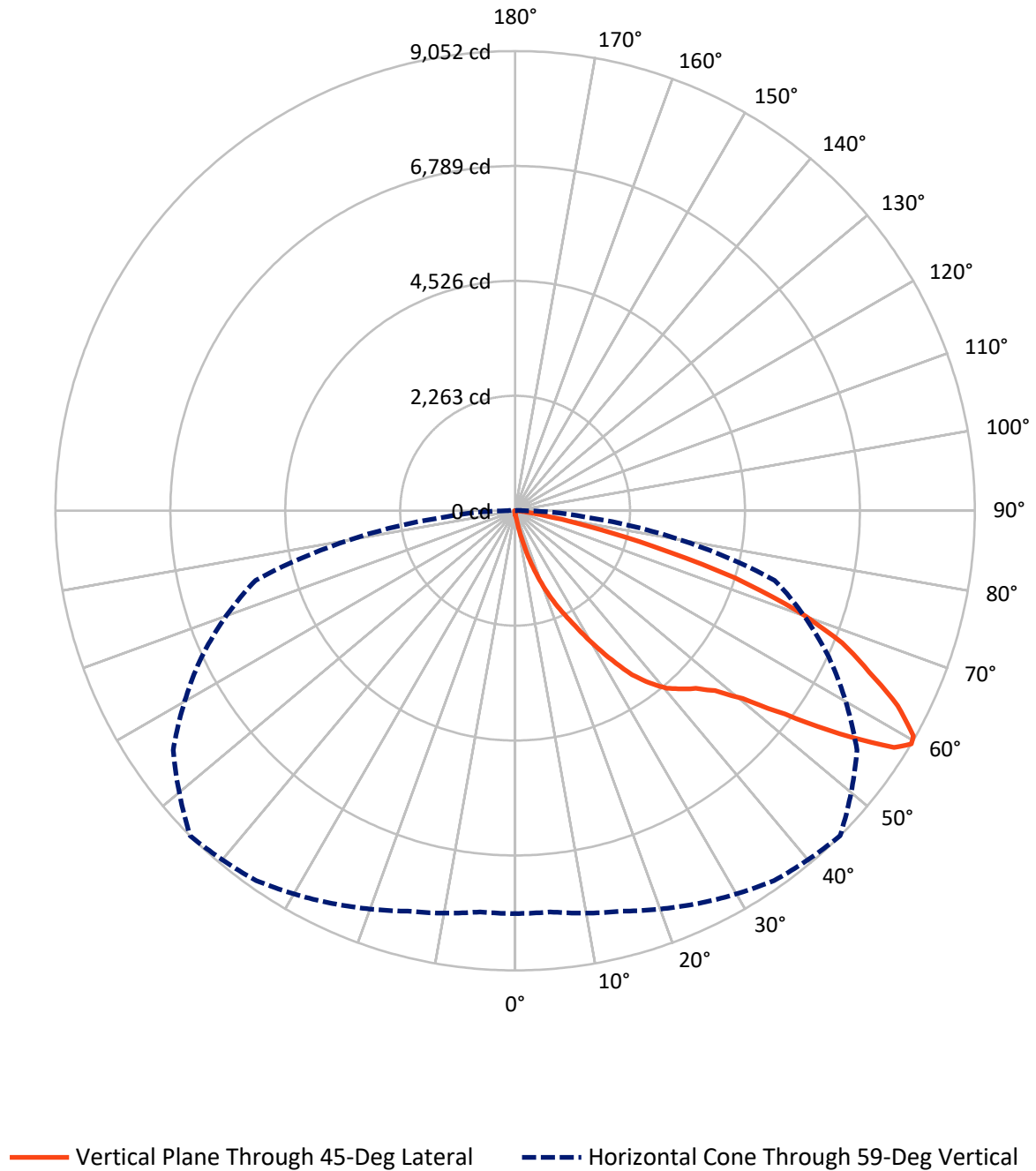


Based on 15 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.5	0.0	39.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	11090.5	0.0	11090.5
	% Fixture	99.6	0.0	99.6
Total	Lumens	11130.0	0.0	11130.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.1
10°-20°	123.0	1.1
20°-30°	442.0	4.0
30°-40°	1027.1	9.2
40°-50°	1750.7	15.7
50°-60°	2884.7	25.9
60°-70°	3335.3	30.0
70°-80°	1433.0	12.9
80°-90°	123.8	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°	11130.0	100.0
0°-180°	11130.0	100.0



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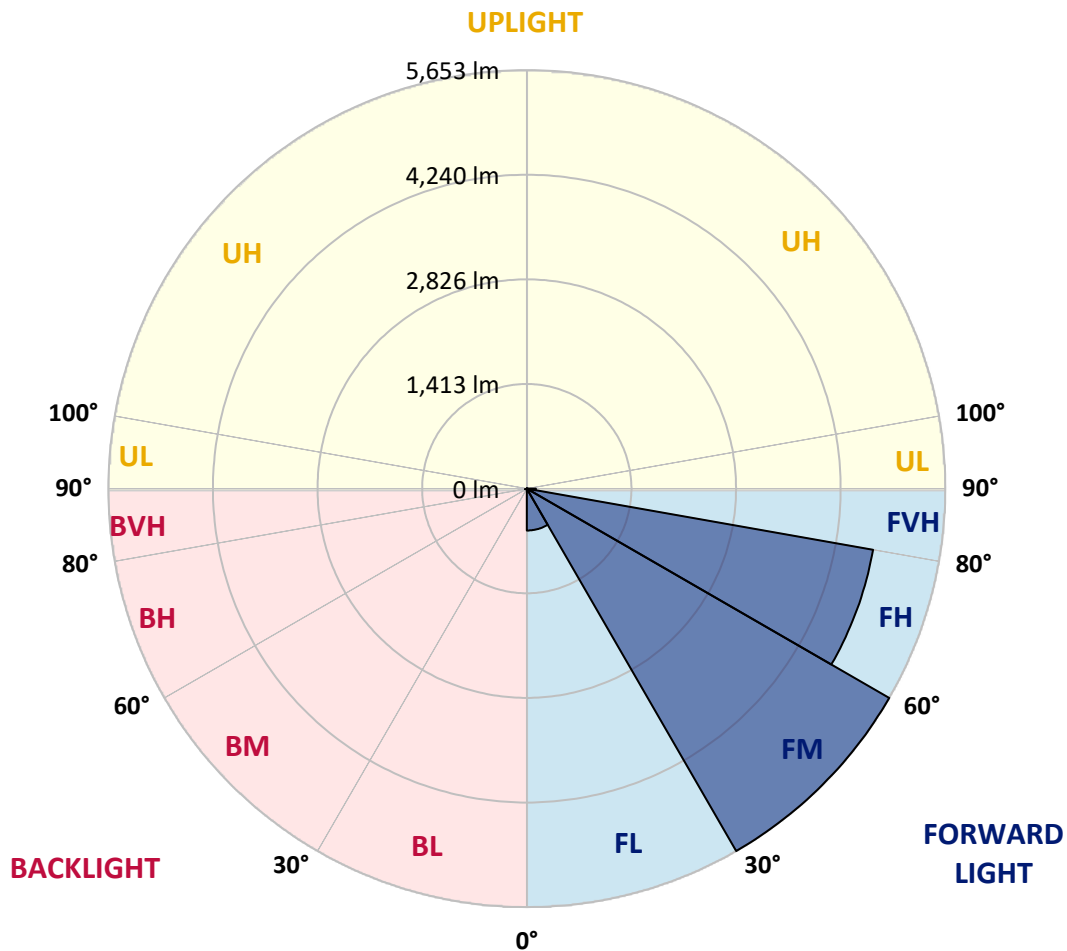
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	565.6	5.1			
FM	(30°-60°)	5653.0	50.8			
FH	(60°-80°)	4749.7	42.7			G2/5000
FVH	(80°-90°)	122.2	1.1			G2/225
BL	(0°-30°)	9.8	0.1	B0/110		
BM	(30°-60°)	9.6	0.1	B0/220		
BH	(60°-80°)	18.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
2.5°	91.3	91.3	89.1	86.1	85.3	83.1	83.1	80.8	77.8	75.6	72.6
5°	132.5	131.7	125.7	118.2	108.5	102.5	102.5	94.3	86.8	80.1	74.1
7.5°	289.6	282.9	261.2	225.3	178.1	146.7	144.4	117.5	99.5	86.1	74.8
10°	664.6	641.4	610.7	524.6	387.7	270.9	265.7	171.4	119.0	92.8	76.3
12.5°	1088.9	1107.6	1046.2	910.8	750.6	558.3	520.9	288.9	157.2	101.8	77.8
15°	1475.1	1470.6	1436.2	1325.4	1140.5	884.6	861.4	502.2	225.3	116.0	79.3
17.5°	1763.9	1758.7	1725.8	1654.7	1512.5	1256.5	1236.3	800.8	353.2	136.2	80.8
20°	2068.5	2061.8	2015.4	1958.5	1834.3	1616.5	1592.6	1134.6	553.1	169.1	80.8
22.5°	2433.8	2421.0	2371.6	2275.1	2144.1	1954.8	1933.1	1475.8	800.8	223.0	84.6
25°	2875.3	2853.6	2785.5	2698.7	2540.8	2289.3	2266.1	1856.0	1099.4	304.6	88.3
27.5°	3379.0	3382.7	3290.7	3144.0	2932.2	2675.5	2632.1	2196.5	1408.5	421.3	92.8
30°	3976.9	3939.5	3810.0	3639.4	3433.6	3106.6	3064.6	2535.5	1755.7	593.5	100.3
32.5°	4536.7	4496.3	4321.9	4107.1	3886.4	3541.4	3506.9	2916.5	2071.5	797.0	113.8
35°	5017.2	4988.7	4744.8	4482.8	4286.8	3978.4	3967.9	3341.5	2442.7	1016.3	128.7
37.5°	5440.0	5388.4	5074.8	4803.1	4604.1	4327.9	4305.5	3730.7	2800.5	1270.8	151.2
40°	5800.7	5772.3	5389.9	5032.9	4871.2	4624.3	4595.8	4072.0	3170.2	1566.4	178.9
42.5°	6186.9	6149.5	5778.3	5377.9	5080.0	4815.9	4797.2	4353.4	3499.5	1891.2	220.0
45°	6623.2	6553.6	6228.1	5868.8	5416.1	5014.2	4993.2	4604.1	3837.0	2239.9	270.2
47.5°	7089.5	7028.8	6765.4	6513.2	5992.3	5341.2	5296.3	4817.4	4172.3	2642.6	333.8
50°	7563.9	7565.4	7367.9	7246.6	6696.6	5872.6	5809.0	5130.9	4524.7	3073.6	428.1
52.5°	8116.2	8130.5	8127.5	8037.7	7611.1	6741.5	6656.1	5606.9	4934.1	3576.5	558.3
55°	8347.5	8372.9	8538.3	8737.4	8621.4	7843.1	7751.8	6427.9	5476.7	4137.1	751.4
57.5°	8158.2	8186.6	8414.9	8763.6	9030.0	8807.8	8797.3	7496.6	6191.4	4816.6	1067.2
59°	7932.9	7929.2	8163.4	8533.1	8892.3	9036.8	9051.7	8219.5	6814.1	5293.3	1339.6
60°	7783.2	7786.2	7941.9	8321.3	8703.0	8953.7	9012.1	8645.4	7177.8	5636.1	1573.1
62.5°	7205.5	7239.9	7363.4	7715.9	8078.1	8358.0	8457.5	9024.8	8218.8	6445.9	2385.1
65°	6577.6	6579.8	6755.7	7057.3	7404.5	7601.4	7664.2	8434.3	8914.0	7270.6	3450.1
67.5°	5457.2	5502.9	5702.7	6191.4	6650.2	6899.4	6947.3	7341.7	8625.9	7807.9	3983.7
70°	3819.0	3878.9	4164.0	4797.9	5481.2	5890.5	5887.6	6103.1	7591.6	7568.4	3377.5
72.5°	1906.9	2010.2	2242.9	2921.7	3749.4	4392.3	4527.7	4909.4	6098.6	6286.4	2519.8
75°	842.7	848.7	981.1	1323.1	1863.5	2680.0	2801.2	3896.8	4678.9	4369.1	1820.1
77.5°	490.2	494.7	518.6	594.2	755.1	1313.4	1449.6	2555.7	3306.4	2539.3	1186.9
80°	178.1	182.6	181.9	225.3	330.8	517.1	576.3	1238.6	2205.5	1337.4	621.9
82.5°	109.3	109.3	105.5	106.3	120.5	198.3	217.0	527.6	1073.9	658.6	178.1
85°	53.9	56.9	60.6	68.1	80.8	98.0	104.0	151.2	361.5	159.4	42.7
87.5°	32.2	32.9	35.9	43.4	53.9	70.3	74.8	102.5	129.5	107.0	10.5
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-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
2.5°	71.1	70.3	66.6	63.6	60.6	57.6	55.4	53.1	53.1	53.9	53.1
5°	71.1	68.1	62.1	56.9	52.4	48.6	44.9	41.9	41.2	41.2	41.9
7.5°	70.3	66.6	58.4	51.6	45.7	40.4	36.7	32.9	32.2	32.9	32.2
10°	69.6	65.1	55.4	47.1	38.9	33.7	28.4	24.7	24.7	24.7	25.4
12.5°	69.6	62.9	52.4	42.7	33.7	27.7	22.5	18.7	18.0	18.0	18.0
15°	68.9	61.4	49.4	37.4	28.4	21.0	16.5	12.7	12.7	12.7	12.7
17.5°	67.4	59.1	45.7	32.9	22.5	15.7	11.2	7.5	7.5	9.0	9.0
20°	65.9	56.9	41.2	26.9	18.7	12.0	7.5	4.5	4.5	6.7	7.5
22.5°	66.6	56.9	38.2	23.9	15.0	9.0	6.0	3.7	3.0	5.2	6.7
25°	67.4	55.4	34.4	21.0	11.2	6.7	4.5	1.5	0.7	1.5	2.2
27.5°	67.4	53.9	29.9	16.5	8.2	5.2	2.2	0.0	0.0	0.0	0.0
30°	66.6	51.6	26.2	13.5	6.0	3.0	0.7	0.0	0.0	0.0	0.0
32.5°	65.9	49.4	23.9	10.5	5.2	1.5	0.0	0.0	0.0	0.0	0.0
35°	66.6	46.4	21.0	8.2	3.0	0.0	0.0	0.0	0.0	0.0	1.5
37.5°	68.9	43.4	18.0	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	71.8	41.2	15.0	5.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	77.8	41.2	13.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	85.3	41.2	11.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	95.0	41.9	9.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	107.0	43.4	9.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	116.0	41.9	8.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	131.7	40.4	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	152.7	38.2	7.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	173.6	35.2	7.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	197.6	33.7	6.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	326.3	29.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	630.1	28.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1018.6	28.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1070.9	28.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	712.5	23.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	381.7	21.0	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	205.8	19.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.6	14.2	3.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.9	9.7	4.5	3.7	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	17.2	7.5	6.0	5.2	3.7	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	7.5	6.7	6.0	5.2	3.7	0.7	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: SP1-2407-184-9

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

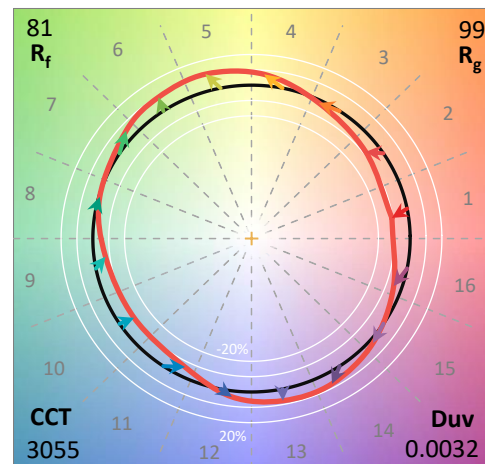
Test Information

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

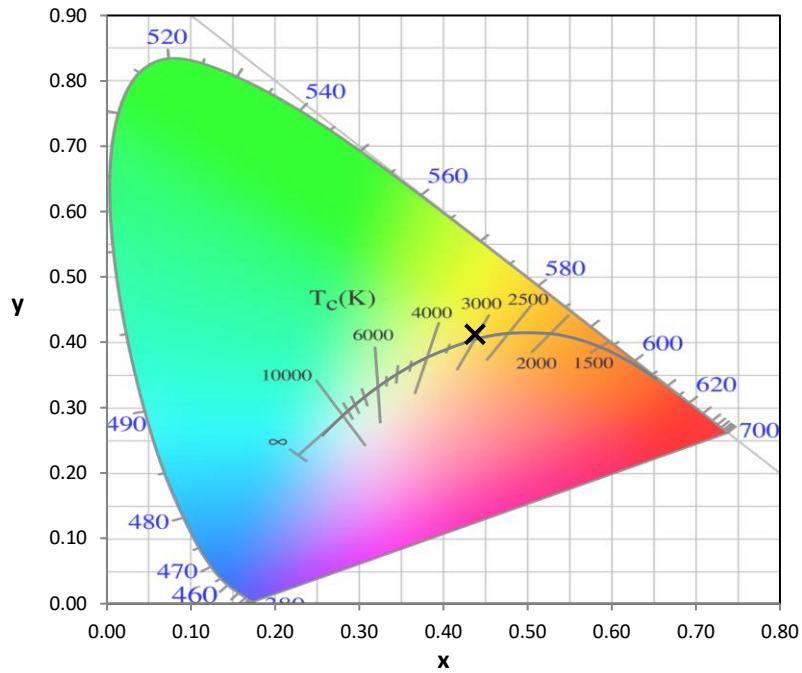
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

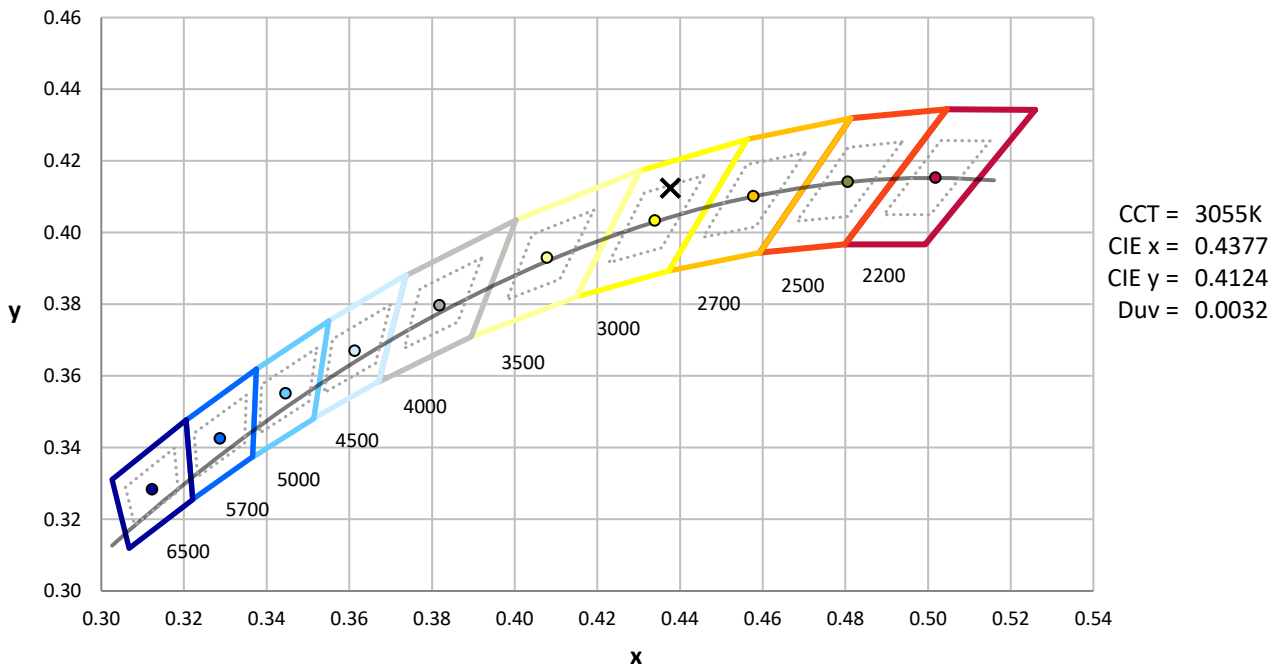
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



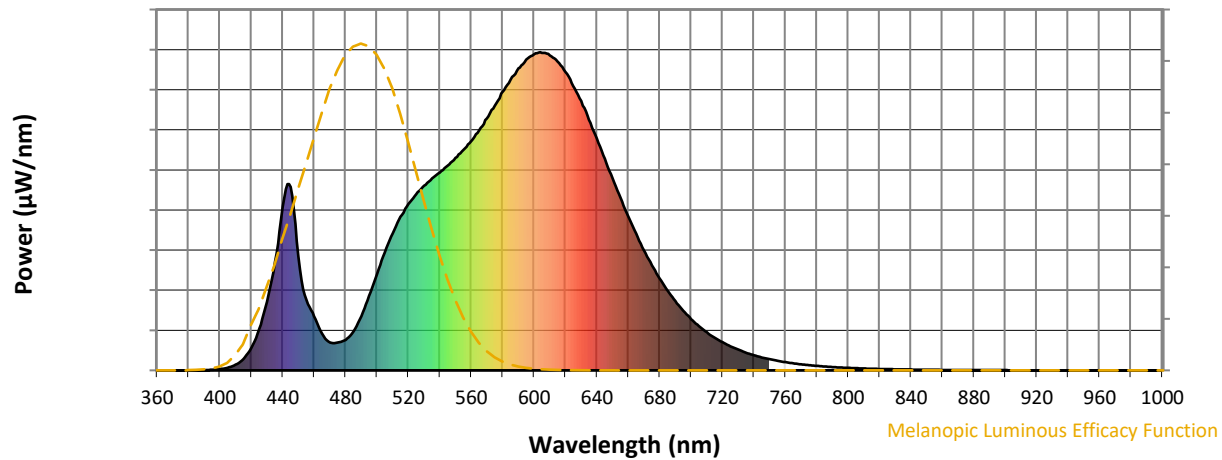
Scotopic Lumens: NR

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

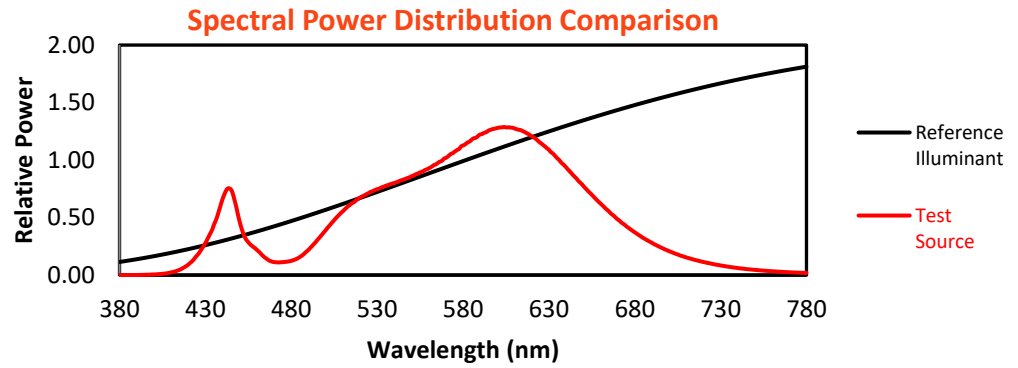
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	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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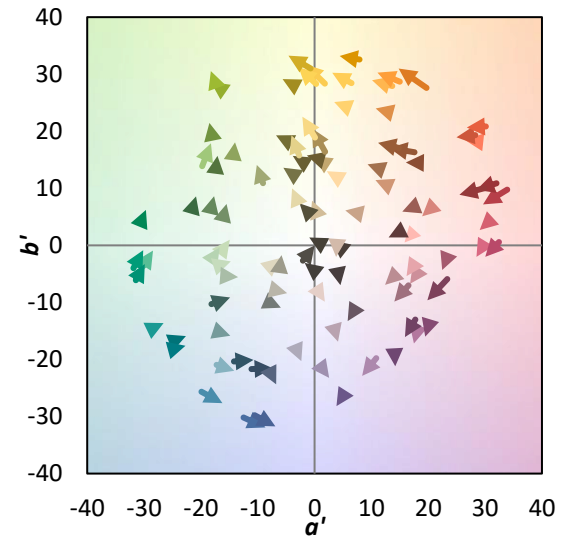
TM-30-18

Summary

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



Color Vector Graphics

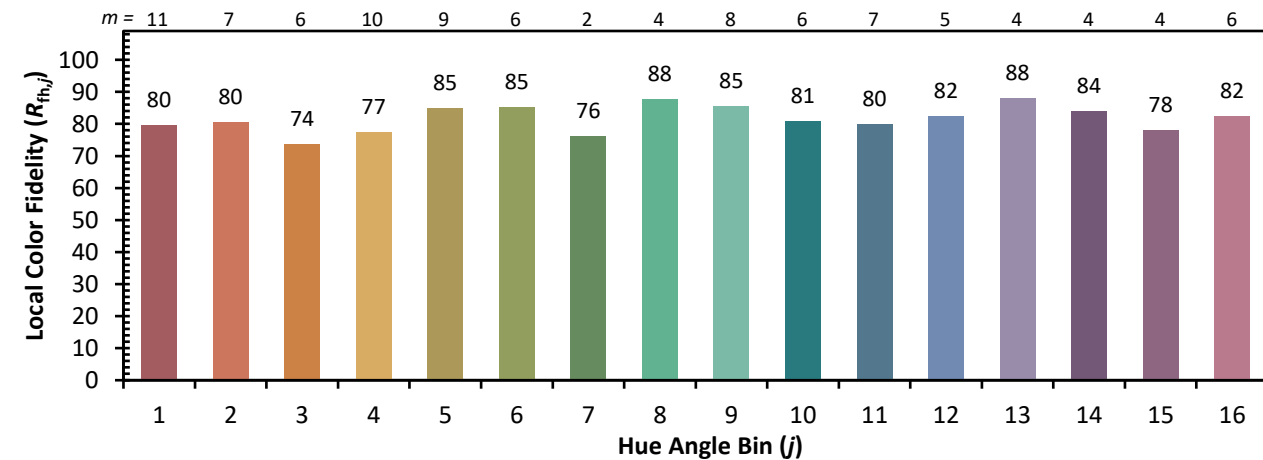
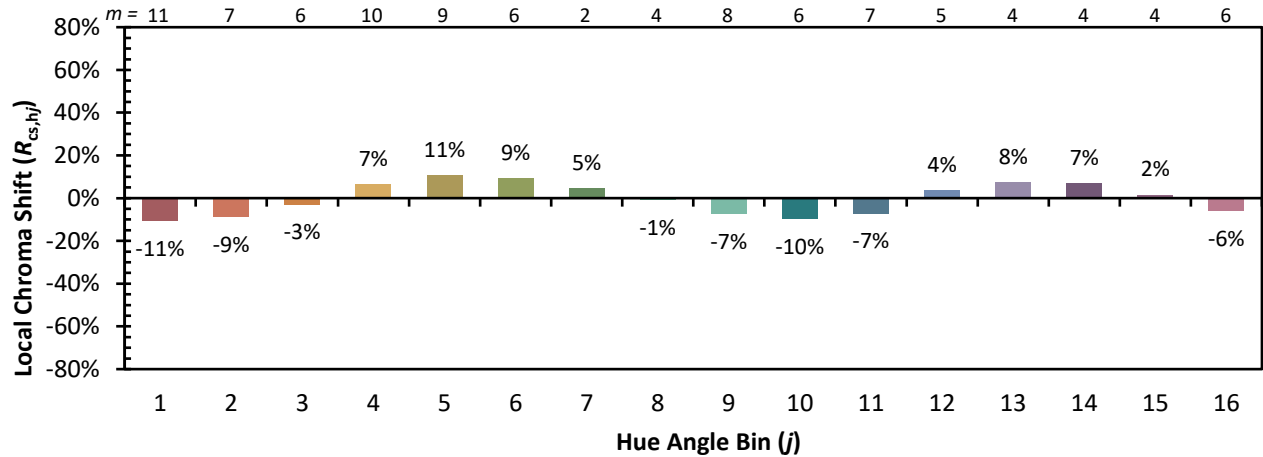


Individual Sample Fidelity Index ($R_{f,i}$)

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)