

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: P1067593

Luminaire Tested: **NAV-SA4A-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067593
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4A-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11235.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 107.4
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

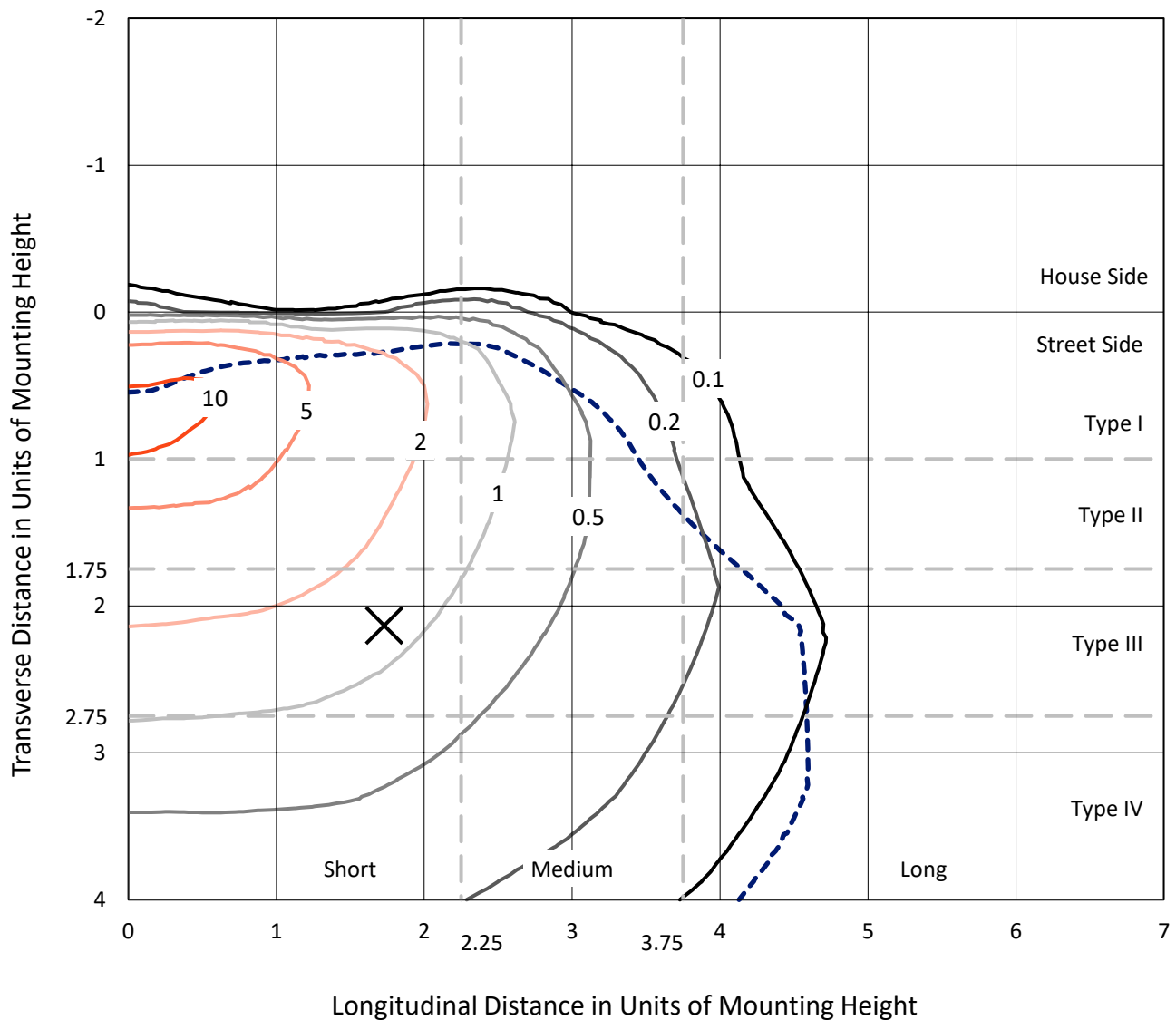


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

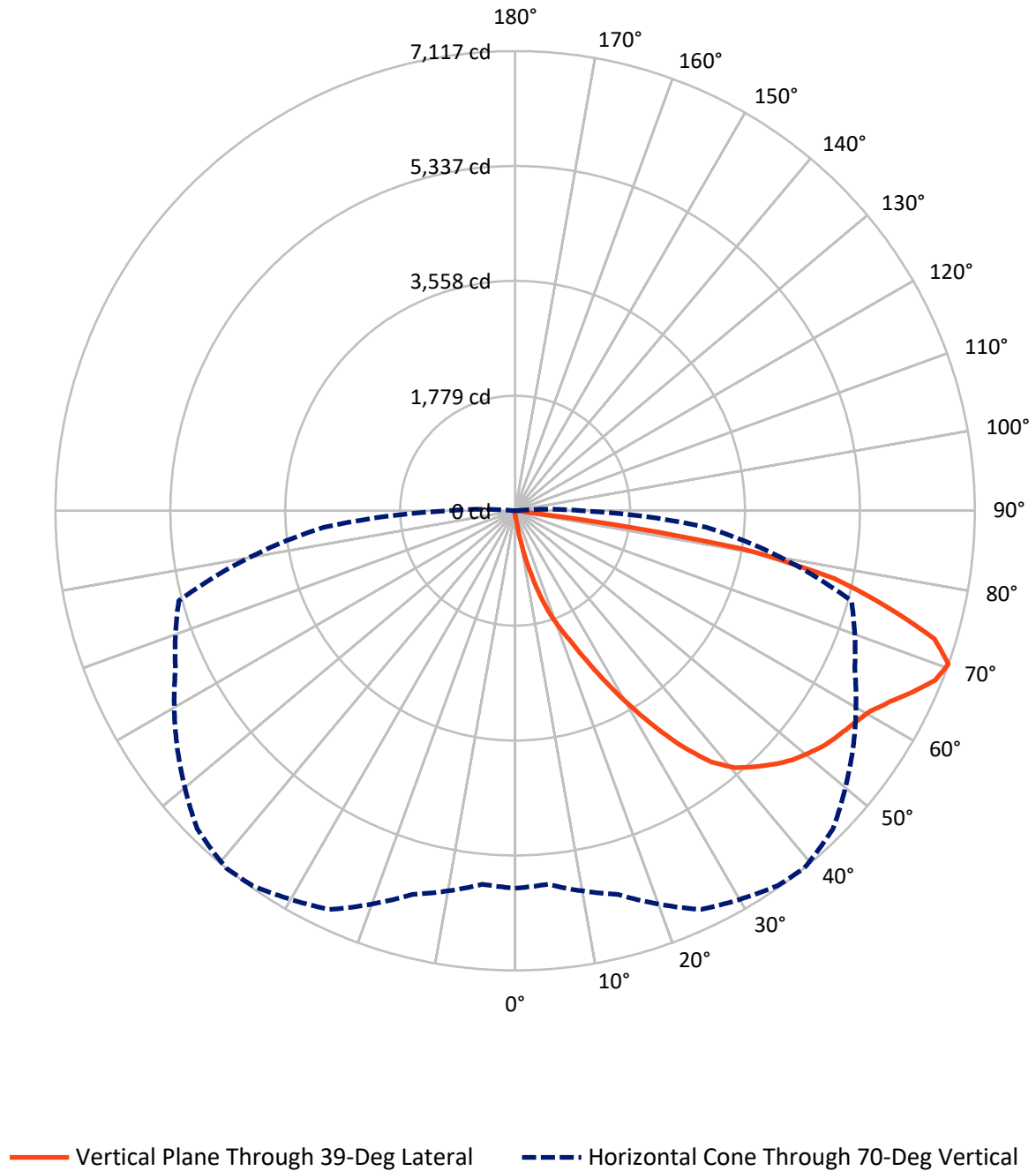


Based on 15 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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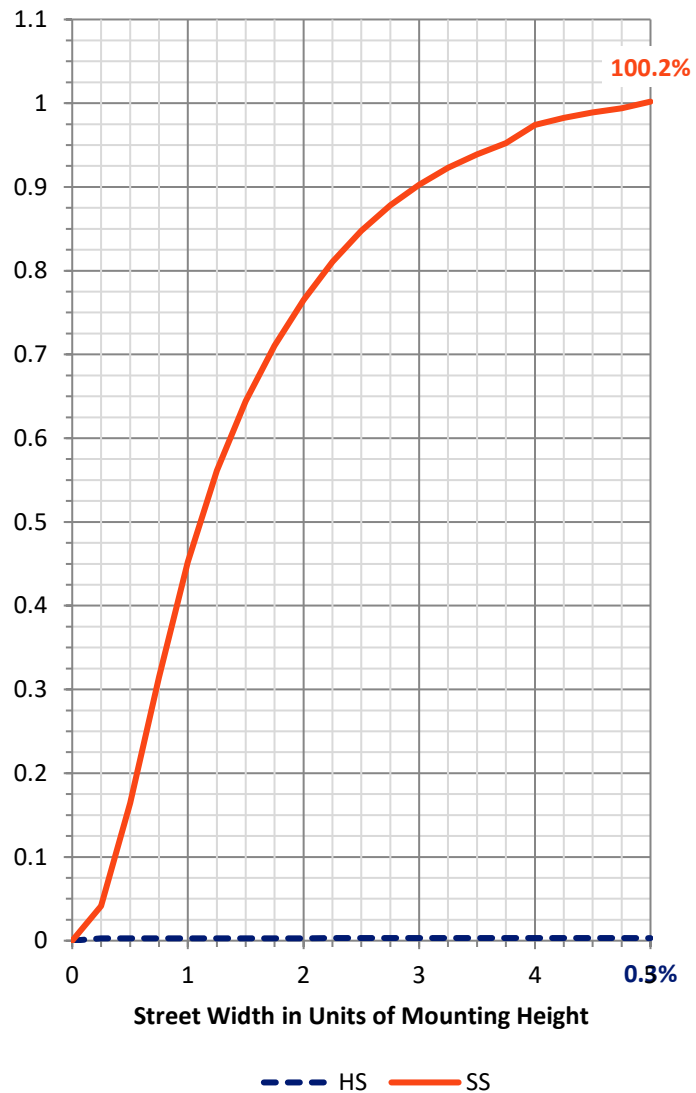
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.6	0.0	34.6
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	11200.9	0.0	11200.9
	% Fixture	99.7	0.0	99.7
Total	Lumens	11235.5	0.0	11235.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.1
10°-20°	138.1	1.2
20°-30°	468.7	4.2
30°-40°	1101.6	9.8
40°-50°	1788.8	15.9
50°-60°	2266.7	20.2
60°-70°	2879.3	25.6
70°-80°	2339.5	20.8
80°-90°	240.9	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°	11235.5	100.0
0°-180°	11235.5	100.0



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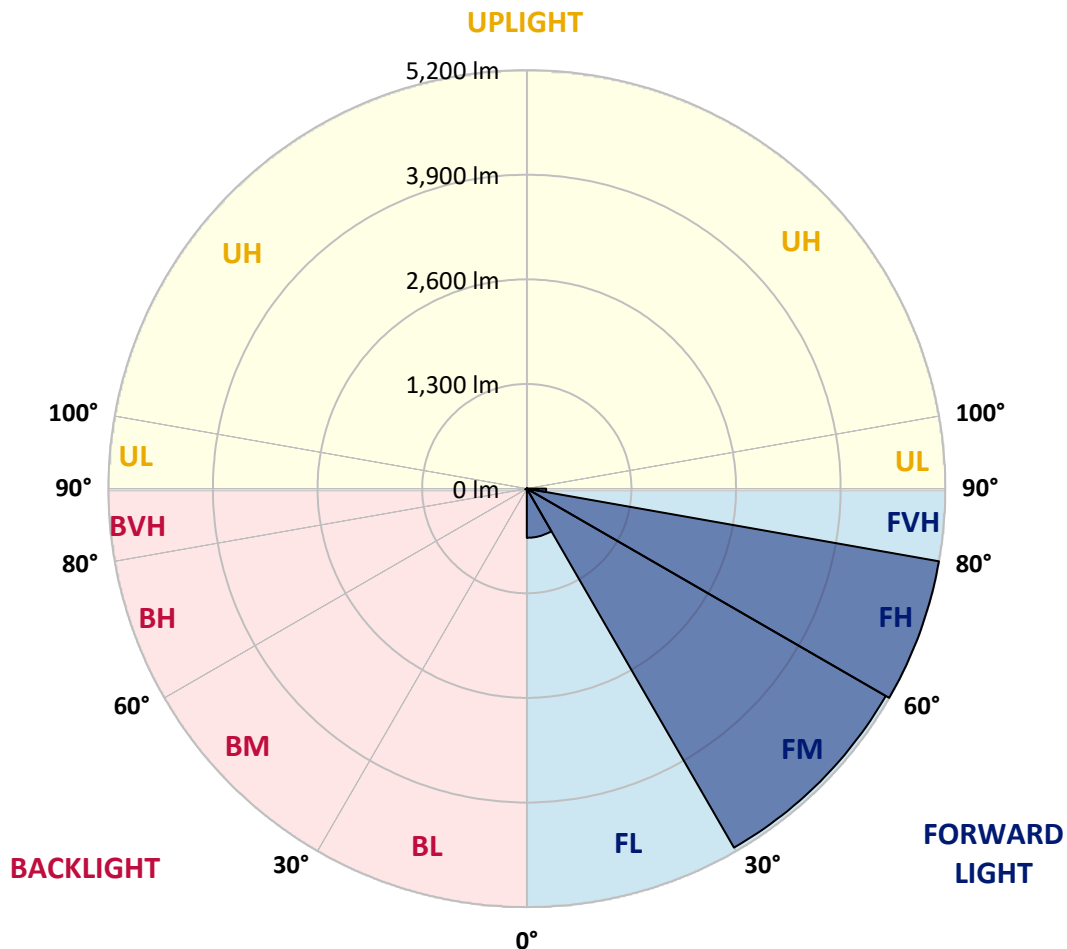
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.2	5.4			
FM	(30°-60°)	5150.4	45.8			
FH	(60°-80°)	5199.8	46.3			G3/7500
FVH	(80°-90°)	239.4	2.1			G3/500
BL	(0°-30°)	7.5	0.1	B0/110		
BM	(30°-60°)	6.7	0.1	B0/220		
BH	(60°-80°)	19.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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 IV Short





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CATALOG NUMBER: NAV-SA4A-830-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	79.3	79.3	79.3	76.3	76.3	73.2	73.2	70.2	67.1	67.1	64.1
5°	149.5	152.5	143.4	125.1	112.9	106.8	100.7	85.4	76.3	70.2	64.1
7.5°	408.8	396.6	378.2	317.2	244.0	207.4	176.9	125.1	91.5	73.2	64.1
10°	860.2	826.7	774.8	692.4	549.1	491.1	381.3	228.8	128.1	82.4	64.1
12.5°	1262.9	1269.0	1204.9	1125.6	951.7	854.1	704.6	430.1	201.3	97.6	64.1
15°	1567.9	1561.8	1537.4	1473.3	1317.8	1223.2	1089.0	722.9	338.6	122.0	67.1
17.5°	1808.9	1784.5	1775.3	1747.9	1647.2	1595.4	1448.9	1064.6	536.9	164.7	70.2
20°	2049.9	2043.8	2034.6	2004.1	1937.0	1900.4	1787.5	1409.3	799.2	234.9	76.3
22.5°	2400.7	2367.1	2373.2	2306.1	2251.2	2187.1	2095.6	1775.3	1101.2	335.5	85.4
25°	2812.5	2809.4	2760.6	2730.1	2638.6	2568.4	2446.4	2129.2	1436.7	485.0	94.6
27.5°	3297.5	3263.9	3242.6	3190.7	3096.2	3016.8	2849.1	2480.0	1799.7	652.8	106.8
30°	3803.8	3803.8	3764.2	3684.9	3593.4	3495.8	3324.9	2849.1	2159.7	866.3	122.0
32.5°	4395.6	4407.8	4310.2	4191.2	4072.3	4005.2	3782.5	3267.0	2504.4	1110.3	140.3
35°	4969.1	4953.8	4792.2	4661.0	4572.5	4499.3	4310.2	3724.5	2894.8	1394.0	164.7
37.5°	5518.2	5478.5	5210.1	5024.0	4984.4	4935.5	4746.4	4182.1	3282.2	1708.2	195.2
40°	5911.7	5850.7	5573.1	5316.8	5258.9	5231.4	5085.0	4596.9	3691.0	2059.0	234.9
42.5°	6082.5	6012.3	5820.2	5612.7	5484.6	5420.6	5292.4	4935.5	4099.7	2449.5	292.8
45°	6116.0	6061.1	5923.9	5875.1	5701.2	5603.6	5429.7	5176.5	4481.0	2836.9	372.1
47.5°	5994.0	5969.6	5887.3	5991.0	5902.5	5768.3	5557.8	5356.5	4819.6	3306.6	482.0
50°	5695.1	5676.8	5716.4	5987.9	6048.9	5896.4	5698.1	5496.8	5112.5	3791.6	637.5
52.5°	5292.4	5289.4	5475.5	5908.6	6113.0	6018.4	5835.4	5637.1	5344.3	4261.4	857.2
55°	4853.2	4905.0	5231.4	5835.4	6149.6	6106.9	5969.6	5762.2	5551.7	4697.6	1211.0
57.5°	4816.6	4795.2	5109.4	5804.9	6171.0	6195.4	6103.8	5893.4	5728.6	5054.5	1683.8
60°	5182.6	5133.8	5252.8	5869.0	6265.5	6308.2	6238.1	5994.0	5905.6	5335.1	2306.1
62.5°	5606.6	5560.9	5621.9	6116.0	6451.6	6512.6	6424.1	6097.7	6048.9	5530.4	2974.1
65°	5945.2	5908.6	6024.5	6485.1	6710.9	6762.7	6701.7	6289.9	6113.0	5689.0	3517.1
67.5°	6000.1	5954.4	6195.4	6732.2	6973.2	7009.8	6961.0	6476.0	6091.6	5701.2	3642.2
70°	5844.6	5804.9	6149.6	6811.5	7086.1	7116.6	6961.0	6387.5	5801.9	5390.1	2977.2
72.5°	5365.6	5396.2	5841.5	6619.4	6930.5	6790.2	6460.7	5942.2	5426.7	4569.5	2089.5
75°	4621.4	4654.9	5246.7	6091.6	6116.0	5945.2	5768.3	5466.3	4856.2	3010.7	1448.9
77.5°	3285.3	3166.3	4050.9	5030.1	4941.6	5051.5	5066.7	4548.1	4066.2	1567.9	970.0
80°	323.3	274.5	509.4	1442.8	3187.7	3562.9	3709.3	3504.9	2998.5	701.6	509.4
82.5°	70.2	70.2	76.3	82.4	128.1	192.2	881.6	2159.7	1937.0	356.9	164.7
85°	39.7	39.7	48.8	58.0	76.3	85.4	100.7	134.2	521.6	128.1	30.5
87.5°	30.5	33.6	39.7	48.8	64.1	70.2	85.4	106.8	131.2	119.0	9.2
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-SA4A-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	64.1	61.0	58.0	54.9	51.9	51.9	48.8	48.8	48.8	48.8	48.8
5°	61.0	58.0	54.9	48.8	45.8	42.7	39.7	39.7	39.7	39.7	39.7
7.5°	61.0	58.0	51.9	45.8	39.7	36.6	33.6	30.5	30.5	33.6	33.6
10°	61.0	54.9	45.8	39.7	33.6	30.5	27.5	24.4	24.4	24.4	24.4
12.5°	58.0	51.9	42.7	36.6	30.5	24.4	18.3	15.3	15.3	15.3	15.3
15°	54.9	48.8	39.7	30.5	21.4	15.3	12.2	9.2	9.2	9.2	9.2
17.5°	54.9	45.8	36.6	27.5	15.3	9.2	6.1	3.1	3.1	3.1	6.1
20°	54.9	45.8	33.6	21.4	9.2	6.1	6.1	3.1	0.0	3.1	3.1
22.5°	54.9	42.7	27.5	15.3	9.2	6.1	3.1	0.0	0.0	0.0	0.0
25°	58.0	42.7	24.4	12.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0
27.5°	58.0	39.7	21.4	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
30°	61.0	39.7	18.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	61.0	36.6	12.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	61.0	33.6	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	61.0	30.5	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	64.1	27.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	67.1	24.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	70.2	21.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	79.3	21.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	91.5	21.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	109.8	21.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	143.4	18.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	207.4	18.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	347.7	18.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	610.1	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1031.0	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1345.2	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1021.9	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	488.1	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	216.6	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	94.6	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.6	6.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	15.3	6.1	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0
85°	9.2	6.1	6.1	6.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	3.1	3.1	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

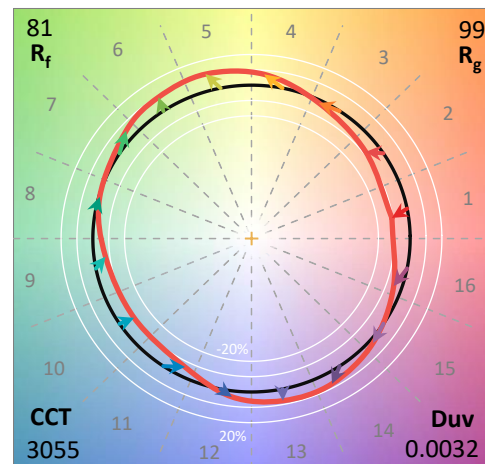
Test Information

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

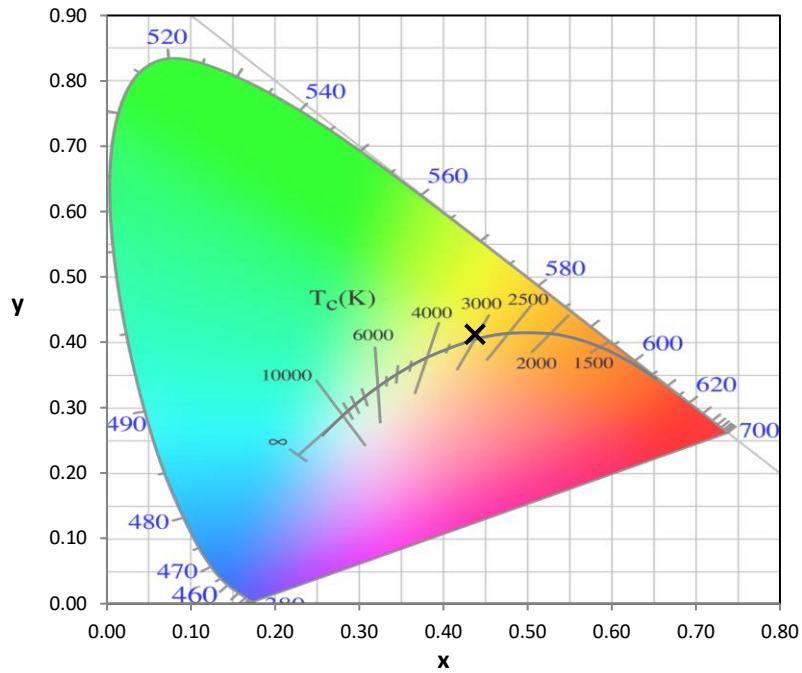
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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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



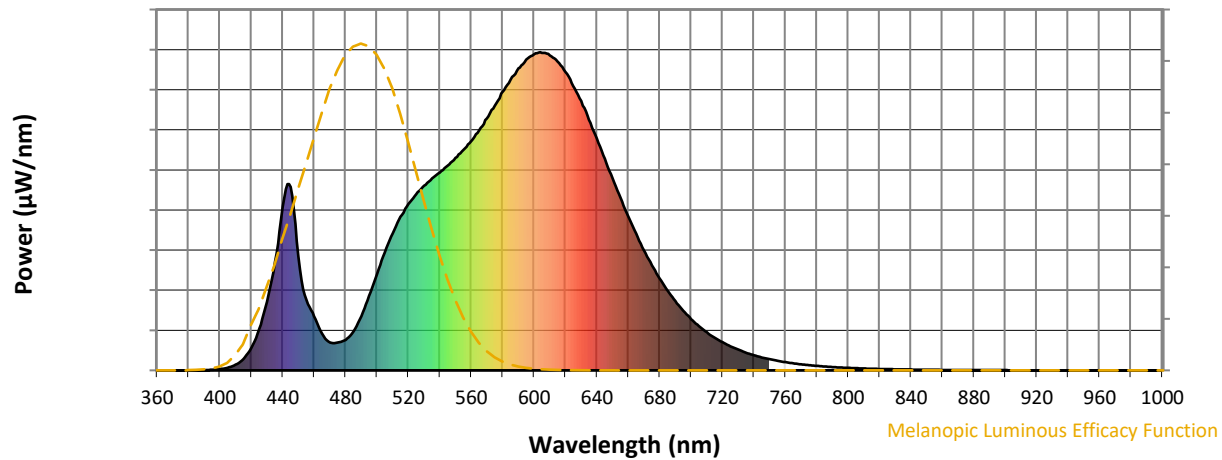
Scotopic Lumens: NR

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

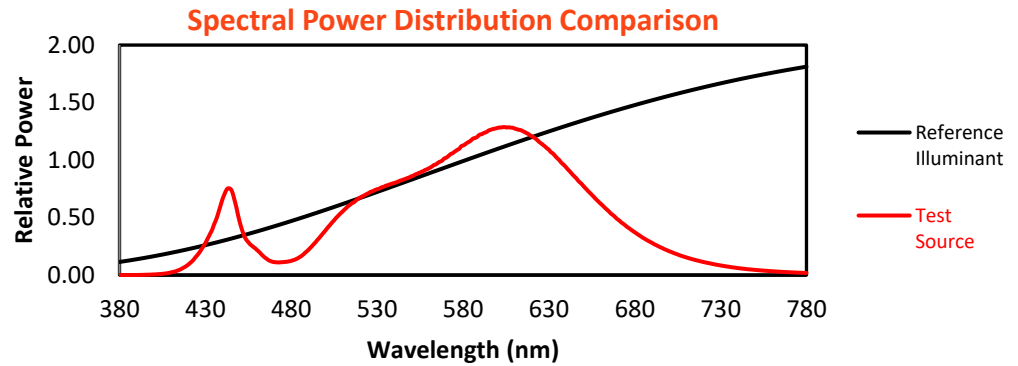
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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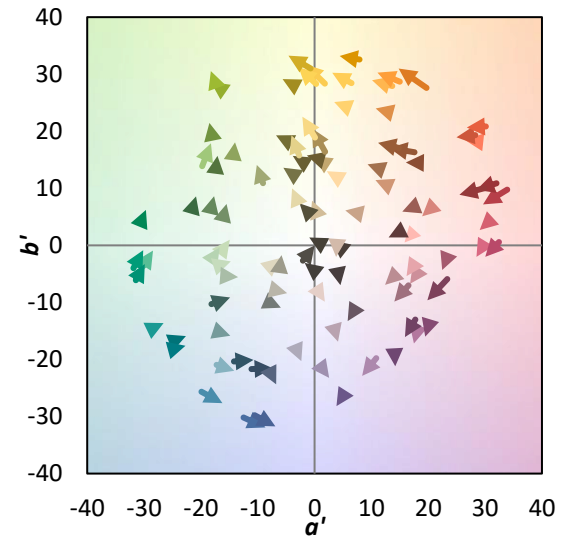
TM-30-18

Summary

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

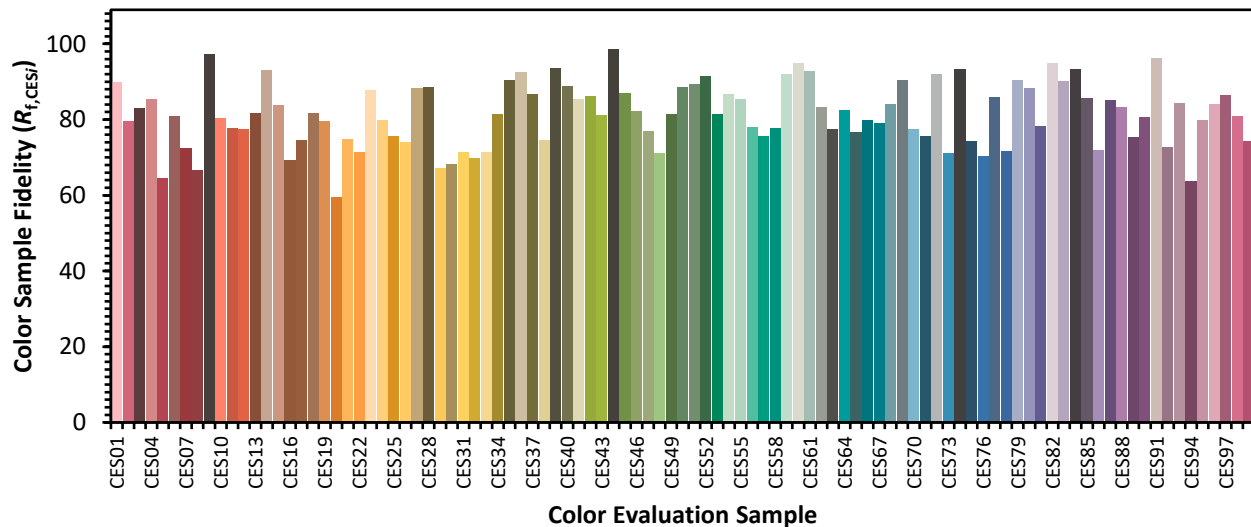


Color Vector Graphics

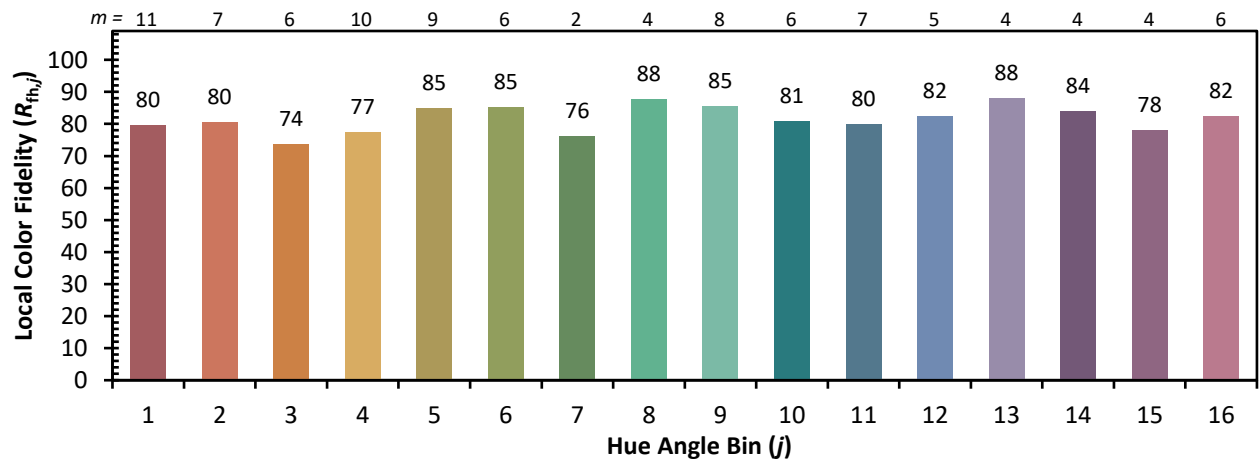


Individual Sample Fidelity Index ($R_{f,i}$)

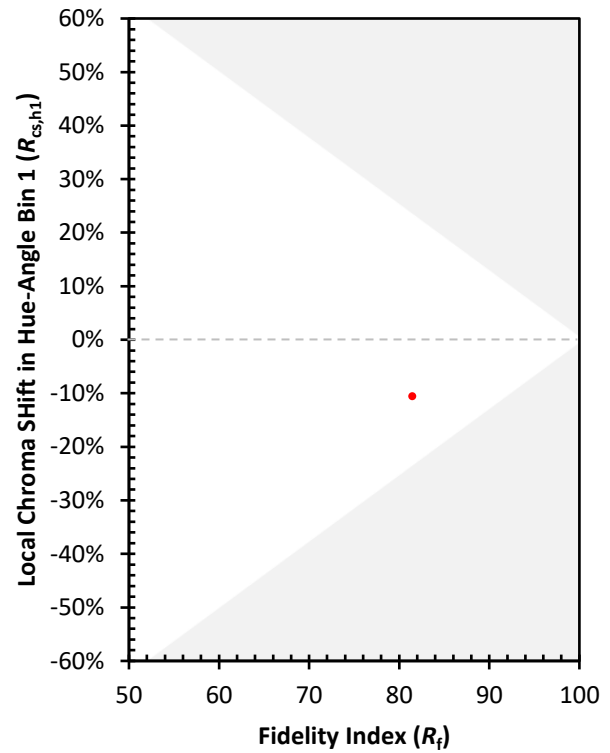
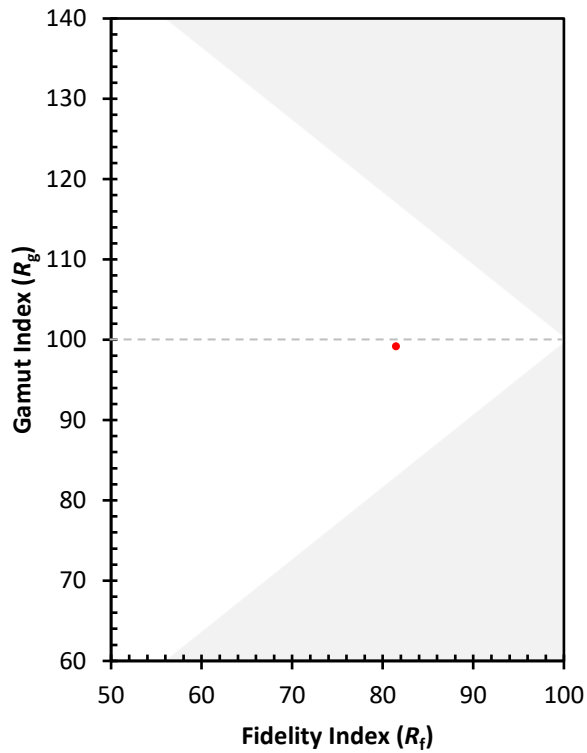
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)