

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: P1067115

Luminaire Tested: **NAV-SA4C-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067115
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4C-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18241.3 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 190.4
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

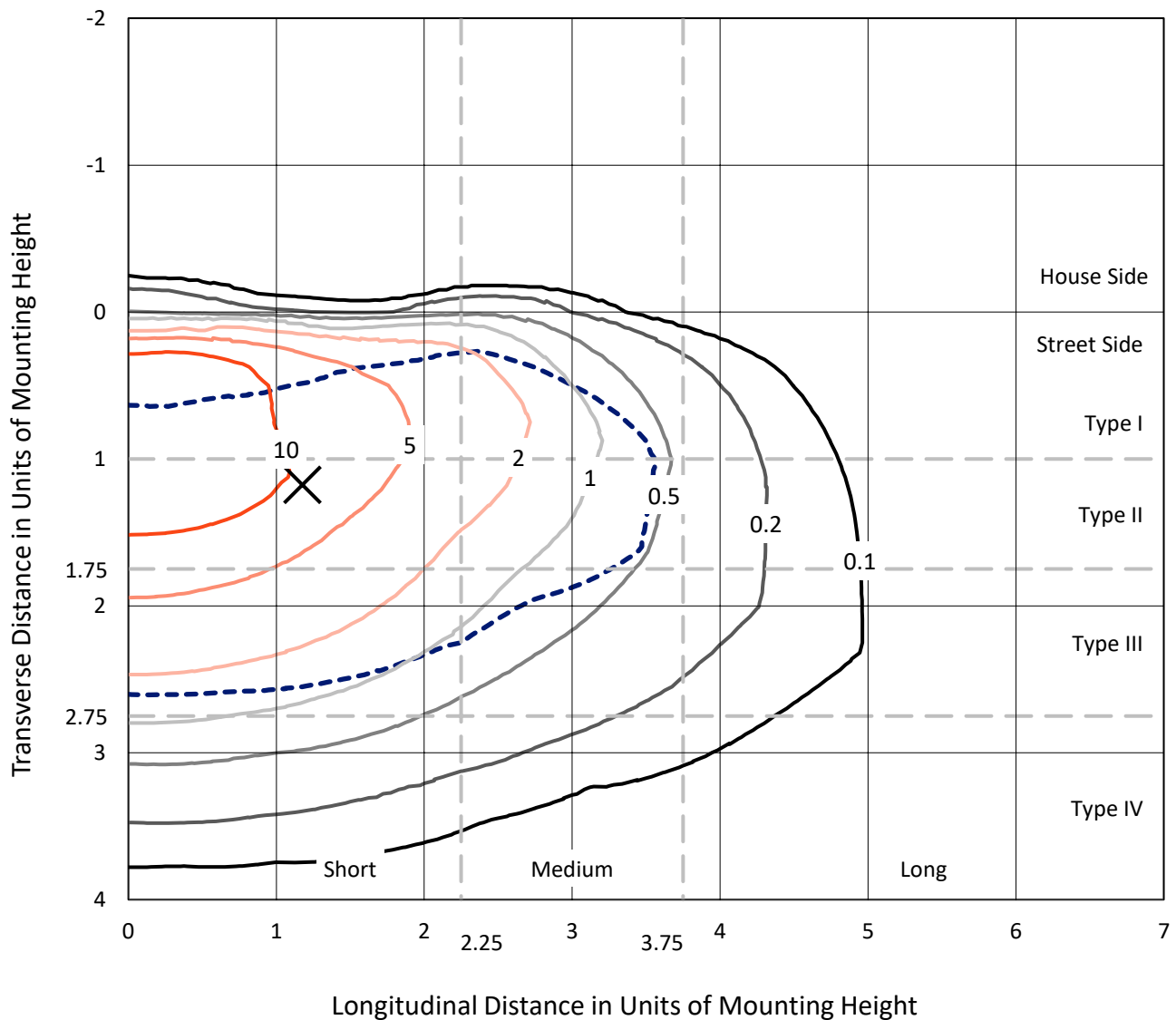


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

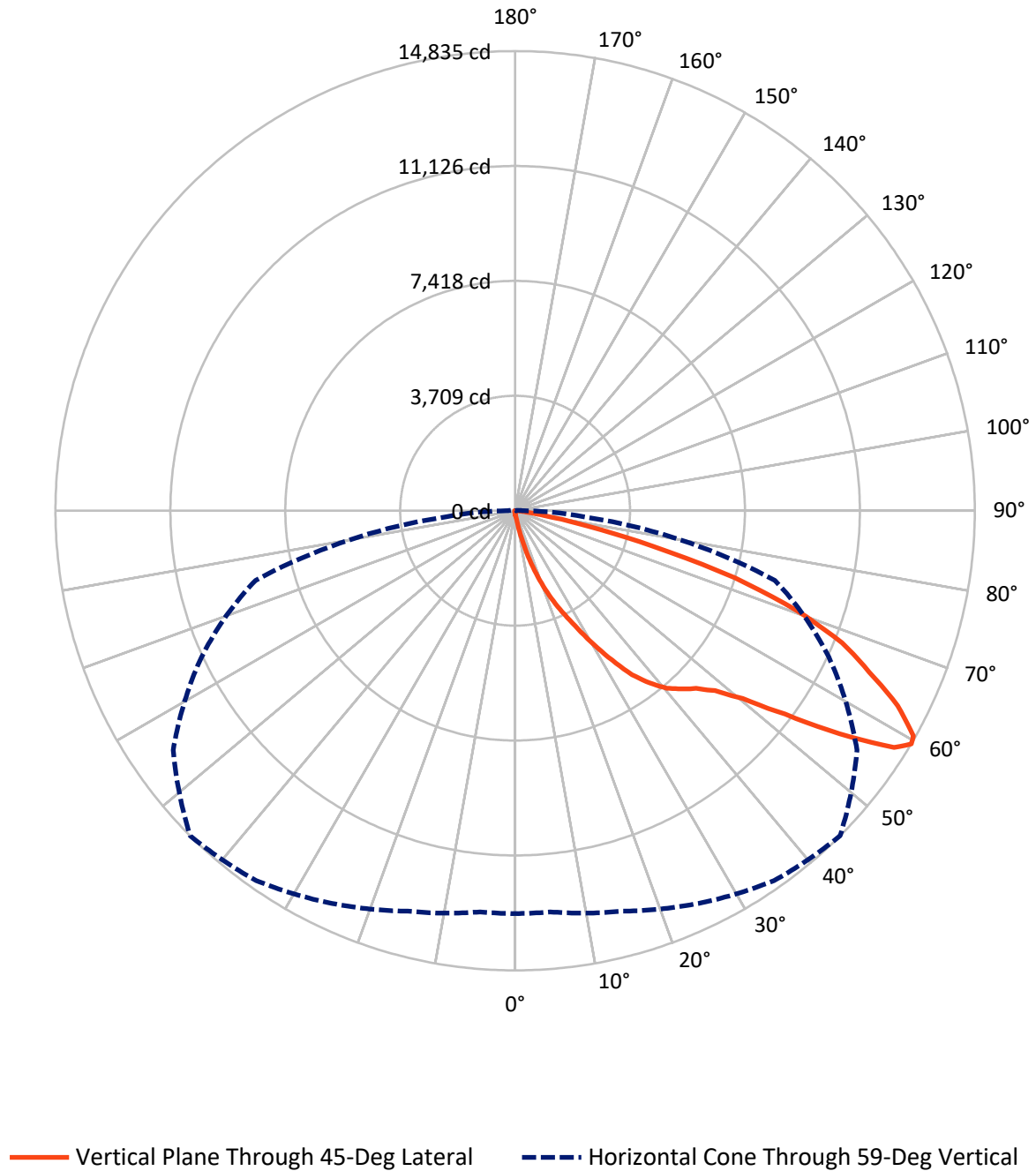


Based on 15 foot mounting height. Maximum calculated value = 19.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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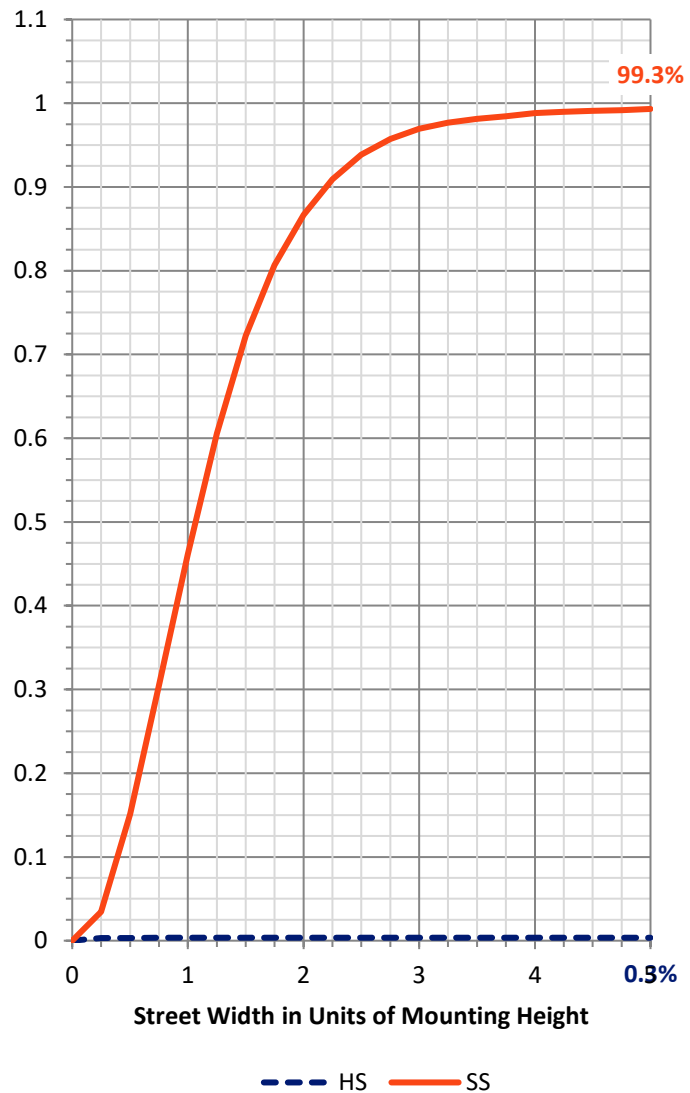
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.8	0.0	64.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	18176.6	0.0	18176.6
	% Fixture	99.6	0.0	99.6
Total	Lumens	18241.3	0.0	18241.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	0.1
10°-20°	201.6	1.1
20°-30°	724.4	4.0
30°-40°	1683.4	9.2
40°-50°	2869.3	15.7
50°-60°	4727.8	25.9
60°-70°	5466.4	30.0
70°-80°	2348.5	12.9
80°-90°	202.9	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°	18241.3	100.0
0°-180°	18241.3	100.0



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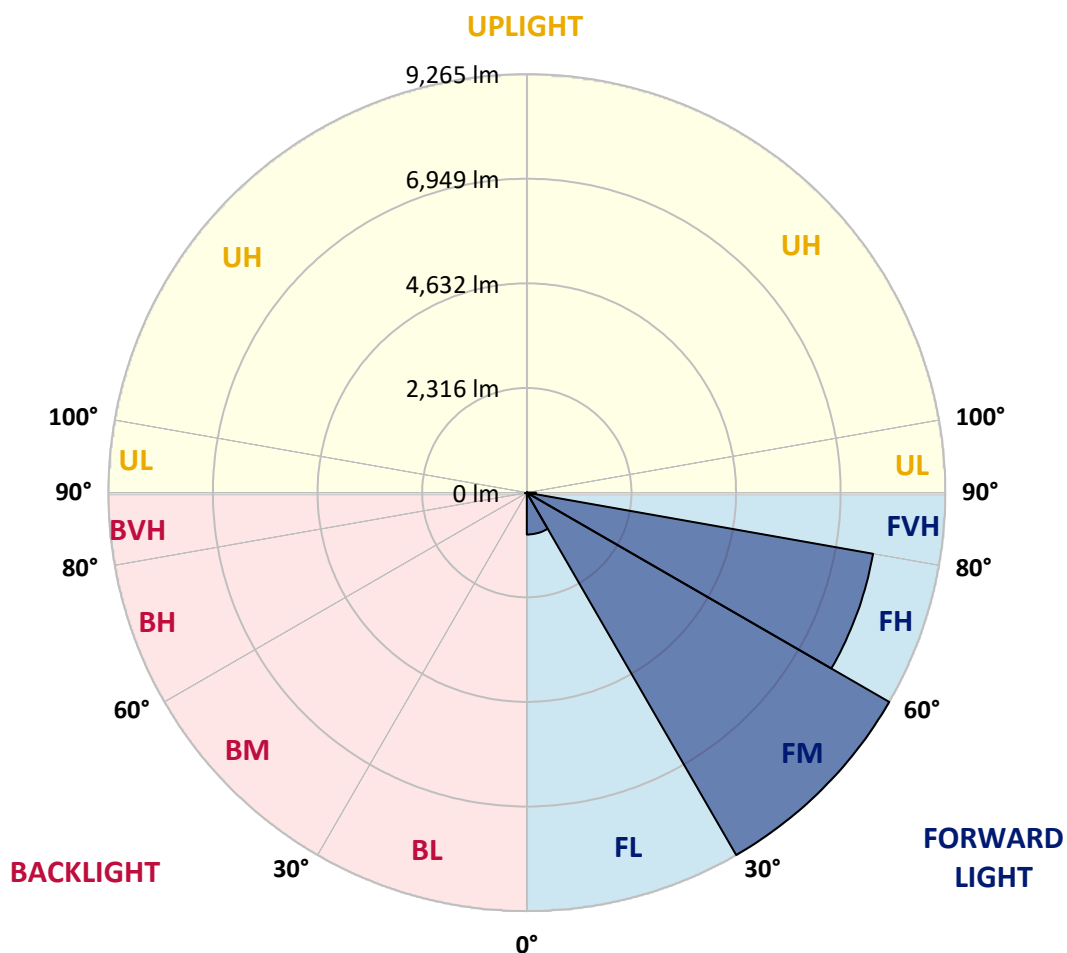
CATALOG NUMBER: NAV-SA4C-830-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	927.0	5.1			
FM	(30°-60°)	9264.8	50.8			
FH	(60°-80°)	7784.4	42.7			G4/12000
FVH	(80°-90°)	200.3	1.1			G2/225
BL	(0°-30°)	16.0	0.1	B0/110		
BM	(30°-60°)	15.7	0.1	B0/220		
BH	(60°-80°)	30.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3
2.5°	149.6	149.6	146.0	141.1	139.8	136.1	136.1	132.5	127.6	123.9	119.0
5°	217.1	215.9	206.1	193.8	177.8	168.0	168.0	154.5	142.3	131.2	121.4
7.5°	474.7	463.6	428.1	369.2	291.9	240.4	236.7	192.6	163.1	141.1	122.7
10°	1089.2	1051.2	1000.9	859.8	635.4	444.0	435.4	280.9	195.0	152.1	125.1
12.5°	1784.6	1815.3	1714.7	1492.7	1230.2	915.0	853.7	473.4	257.6	166.8	127.6
15°	2417.5	2410.2	2353.8	2172.2	1869.3	1449.8	1411.8	823.0	369.2	190.1	130.0
17.5°	2891.0	2882.4	2828.4	2711.9	2478.9	2059.4	2026.3	1312.4	578.9	223.2	132.5
20°	3390.2	3379.1	3303.1	3209.9	3006.3	2649.4	2610.1	1859.5	906.4	277.2	132.5
22.5°	3988.7	3967.9	3886.9	3728.7	3514.1	3203.8	3168.2	2418.8	1312.4	365.5	138.6
25°	4712.4	4676.8	4565.2	4422.9	4164.1	3752.0	3714.0	3041.8	1801.8	499.2	144.7
27.5°	5537.9	5544.0	5393.1	5152.7	4805.6	4384.9	4313.8	3599.9	2308.4	690.5	152.1
30°	6517.9	6456.6	6244.4	5964.7	5627.4	5091.4	5022.7	4155.6	2877.5	972.7	164.4
32.5°	7435.4	7369.1	7083.3	6731.3	6369.5	5804.0	5747.6	4779.9	3395.1	1306.3	186.4
35°	8222.8	8176.2	7776.3	7347.0	7025.7	6520.3	6503.2	5476.6	4003.5	1665.7	211.0
37.5°	8915.8	8831.2	8317.2	7872.0	7545.7	7093.1	7056.4	6114.4	4589.8	2082.7	247.8
40°	9507.0	9460.4	8833.6	8248.6	7983.6	7578.9	7532.3	6673.7	5195.7	2567.2	293.1
42.5°	10139.9	10078.6	9470.2	8814.0	8325.8	7892.9	7862.2	7134.9	5735.4	3099.5	360.6
45°	10855.0	10740.9	10207.4	9618.6	8876.6	8217.9	8183.6	7545.7	6288.5	3671.1	442.8
47.5°	11619.1	11519.8	11088.0	10674.7	9821.0	8753.9	8680.3	7895.3	6838.0	4331.0	547.0
50°	12396.8	12399.2	12075.4	11876.7	10975.2	9624.8	9520.5	8409.2	7415.7	5037.4	701.6
52.5°	13302.0	13325.3	13320.4	13173.2	12474.0	11048.8	10908.9	9189.3	8086.7	5861.7	915.0
55°	13681.0	13722.7	13993.7	14320.0	14129.9	12854.3	12704.6	10534.9	8975.9	6780.4	1231.5
57.5°	13370.6	13417.2	13791.3	14362.9	14799.6	14435.3	14418.1	12286.4	10147.3	7894.1	1749.1
59°	13001.4	12995.3	13379.2	13985.1	14573.9	14810.6	14835.1	13471.2	11167.8	8675.4	2195.5
60°	12756.1	12761.0	13016.2	13638.0	14263.6	14674.5	14770.1	14169.1	11763.9	9237.2	2578.2
62.5°	11809.2	11865.7	12068.0	12645.7	13239.4	13698.1	13861.3	14791.0	13470.0	10564.3	3909.0
65°	10780.2	10783.8	11072.1	11566.4	12135.5	12458.1	12561.1	13823.2	14609.5	11915.9	5654.4
67.5°	8944.0	9018.8	9346.3	10147.3	10899.1	11307.6	11386.1	12032.5	14137.2	12796.6	6528.9
70°	6259.1	6357.2	6824.5	7863.4	8983.3	9654.2	9649.3	10002.5	12442.1	12404.1	5535.4
72.5°	3125.3	3294.5	3676.0	4788.5	6145.0	7198.6	7420.6	8046.2	9995.2	10303.0	4129.8
75°	1381.1	1390.9	1608.0	2168.5	3054.1	4392.3	4591.0	6386.7	7668.4	7160.6	2983.0
77.5°	803.4	810.8	850.0	973.9	1237.6	2152.6	2375.8	4188.7	5418.9	4161.7	1945.3
80°	291.9	299.3	298.1	369.2	542.1	847.5	944.4	2029.9	3614.6	2191.8	1019.3
82.5°	179.1	179.1	172.9	174.2	197.5	325.0	355.7	864.7	1760.1	1079.4	291.9
85°	88.3	93.2	99.4	111.6	132.5	160.7	170.5	247.8	592.4	261.3	69.9
87.5°	52.7	54.0	58.9	71.1	88.3	115.3	122.7	168.0	212.2	175.4	17.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3
2.5°	116.5	115.3	109.2	104.3	99.4	94.4	90.8	87.1	87.1	88.3	87.1
5°	116.5	111.6	101.8	93.2	85.9	79.7	73.6	68.7	67.5	67.5	68.7
7.5°	115.3	109.2	95.7	84.6	74.8	66.2	60.1	54.0	52.7	54.0	52.7
10°	114.1	106.7	90.8	77.3	63.8	55.2	46.6	40.5	40.5	40.5	41.7
12.5°	114.1	103.0	85.9	69.9	55.2	45.4	36.8	30.7	29.4	29.4	29.4
15°	112.8	100.6	81.0	61.3	46.6	34.3	27.0	20.9	20.9	20.9	20.9
17.5°	110.4	96.9	74.8	54.0	36.8	25.8	18.4	12.3	12.3	14.7	14.7
20°	107.9	93.2	67.5	44.2	30.7	19.6	12.3	7.4	7.4	11.0	12.3
22.5°	109.2	93.2	62.6	39.2	24.5	14.7	9.8	6.1	4.9	8.6	11.0
25°	110.4	90.8	56.4	34.3	18.4	11.0	7.4	2.5	1.2	2.5	3.7
27.5°	110.4	88.3	49.1	27.0	13.5	8.6	3.7	0.0	0.0	0.0	0.0
30°	109.2	84.6	42.9	22.1	9.8	4.9	1.2	0.0	0.0	0.0	0.0
32.5°	107.9	81.0	39.2	17.2	8.6	2.5	0.0	0.0	0.0	0.0	0.0
35°	109.2	76.0	34.3	13.5	4.9	0.0	0.0	0.0	0.0	0.0	2.5
37.5°	112.8	71.1	29.4	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	117.7	67.5	24.5	8.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	127.6	67.5	22.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	139.8	67.5	18.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	155.8	68.7	15.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	175.4	71.1	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	190.1	68.7	13.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	215.9	66.2	12.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	250.2	62.6	12.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	284.6	57.6	12.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	323.8	55.2	11.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	534.8	49.1	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1032.8	46.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1669.3	46.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1755.2	46.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1167.7	38.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	625.5	34.3	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	337.3	31.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.4	23.3	6.1	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.9	15.9	7.4	6.1	4.9	2.5	0.0	0.0	0.0	0.0	0.0
85°	28.2	12.3	9.8	8.6	6.1	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	12.3	11.0	9.8	8.6	6.1	1.2	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

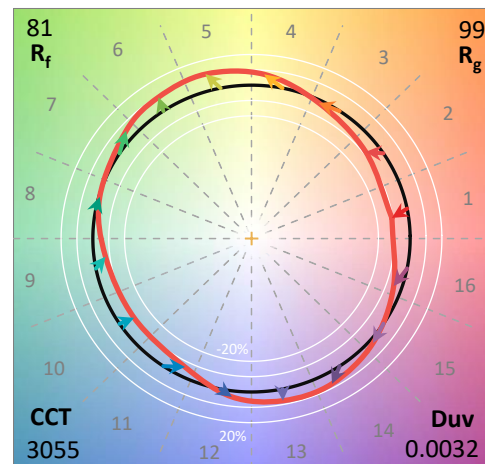
Test Information

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

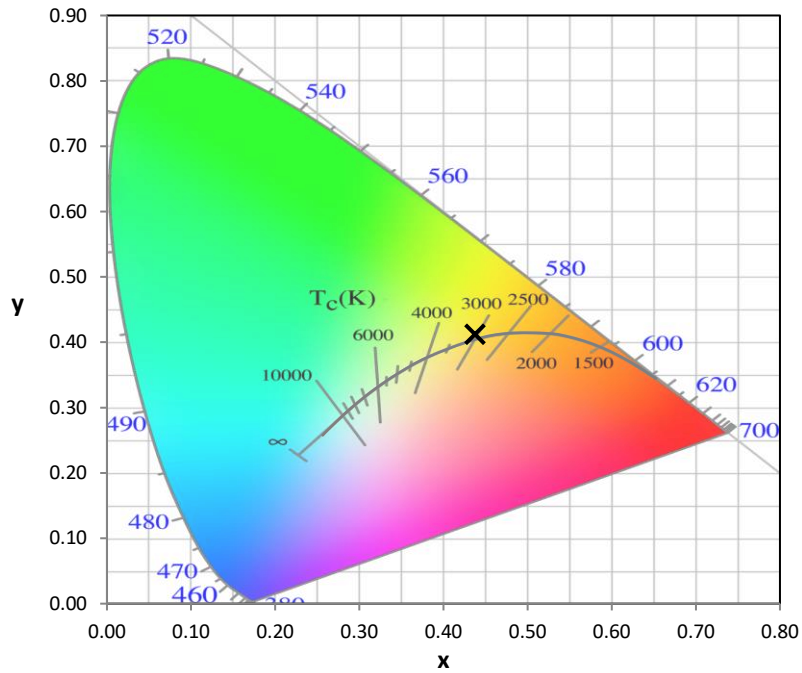
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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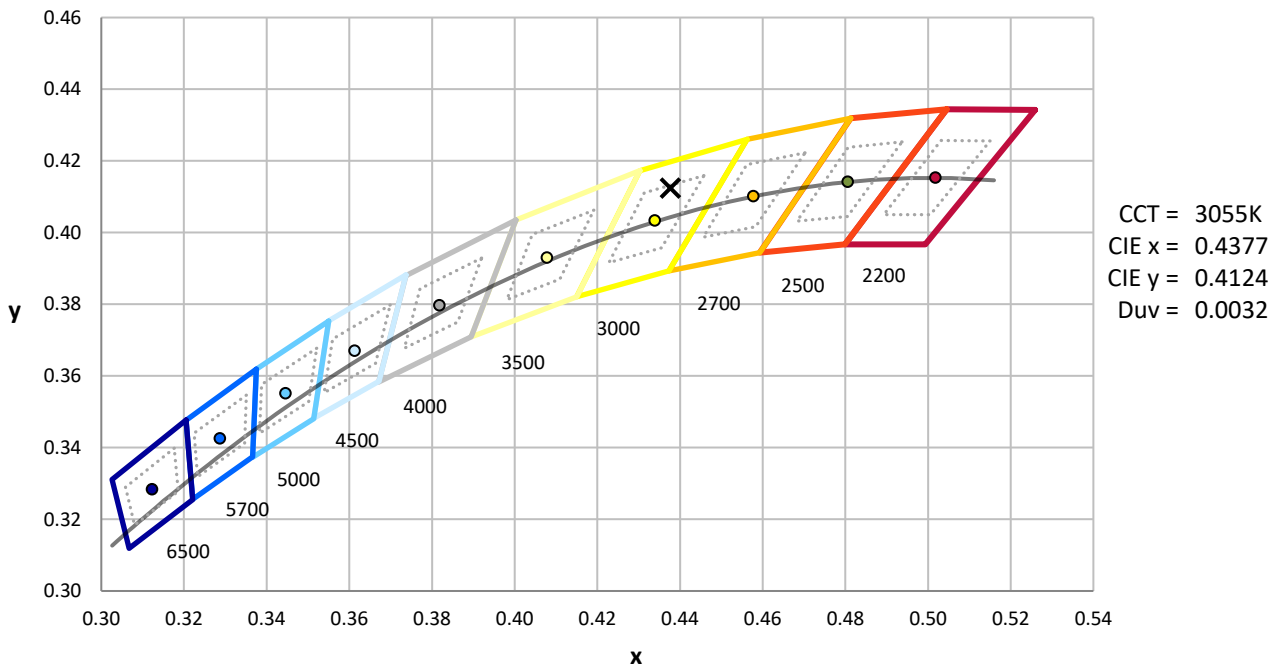
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



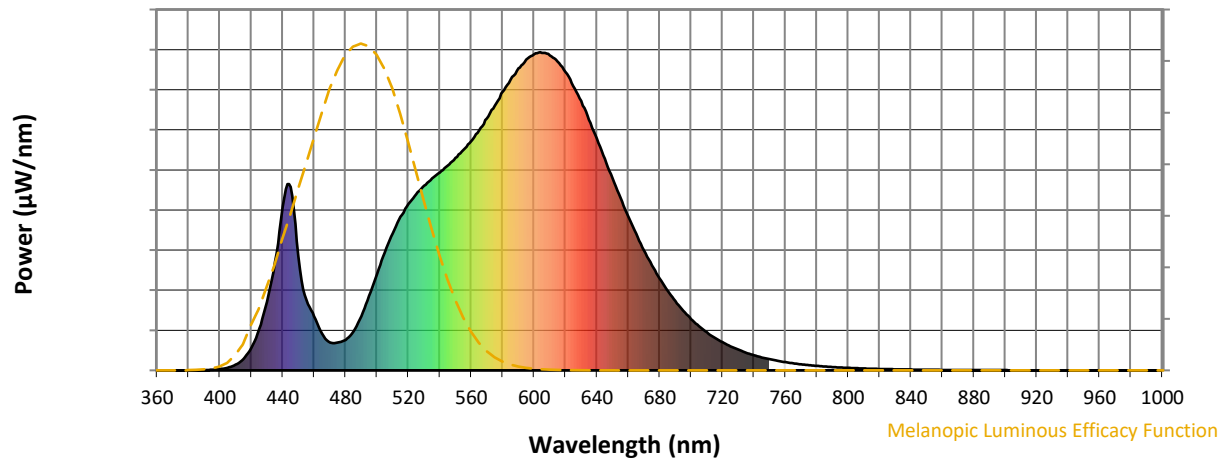
Scotopic Lumens: NR

S/P: 1.28

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

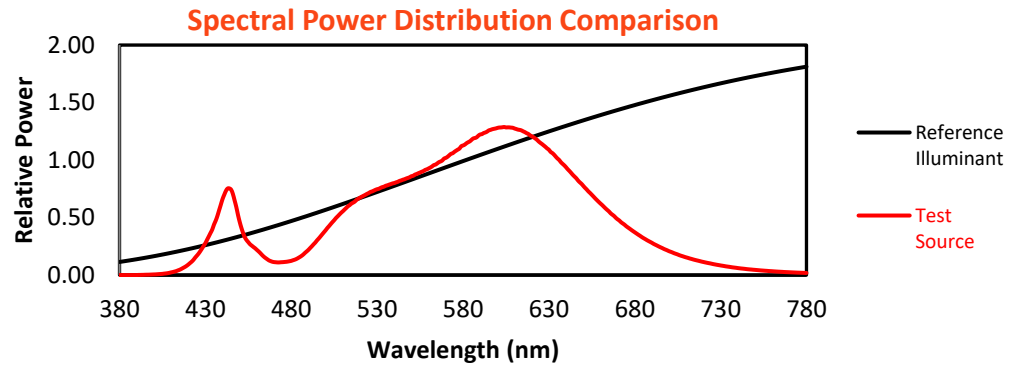
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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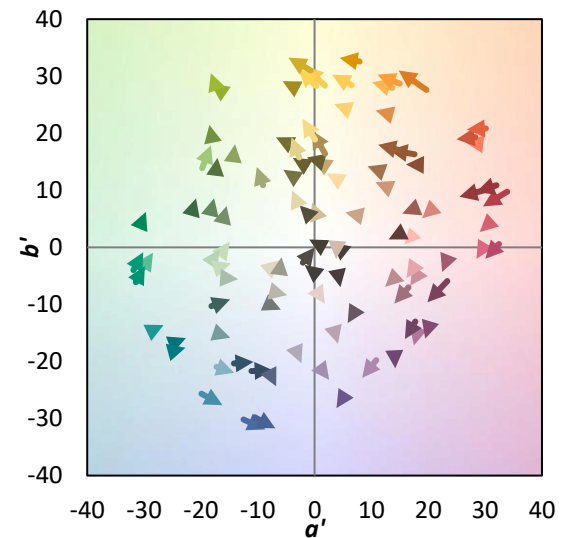
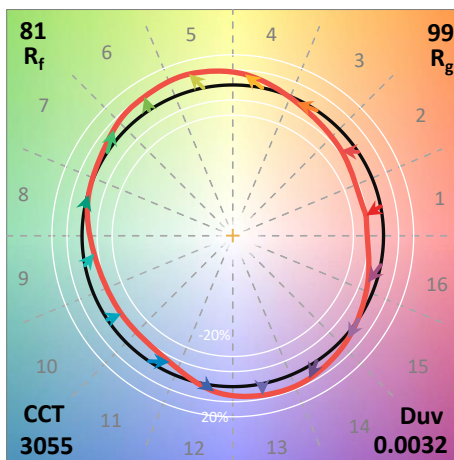
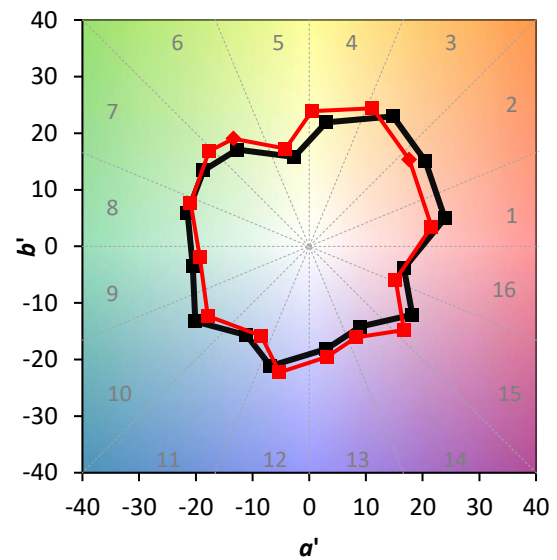
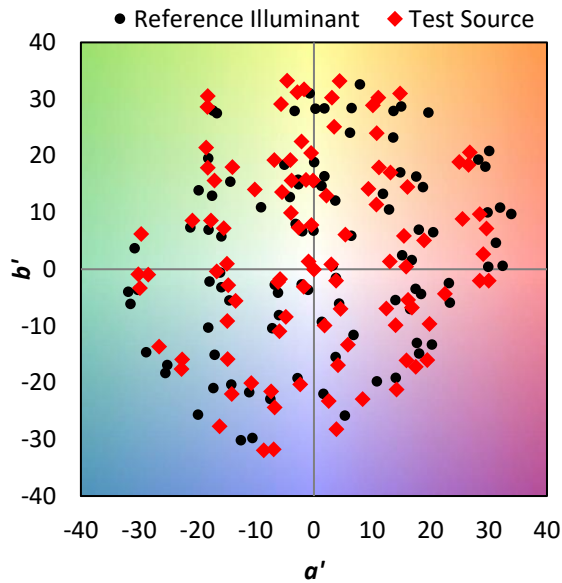
TM-30-18

Summary

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



Color Vector Graphics

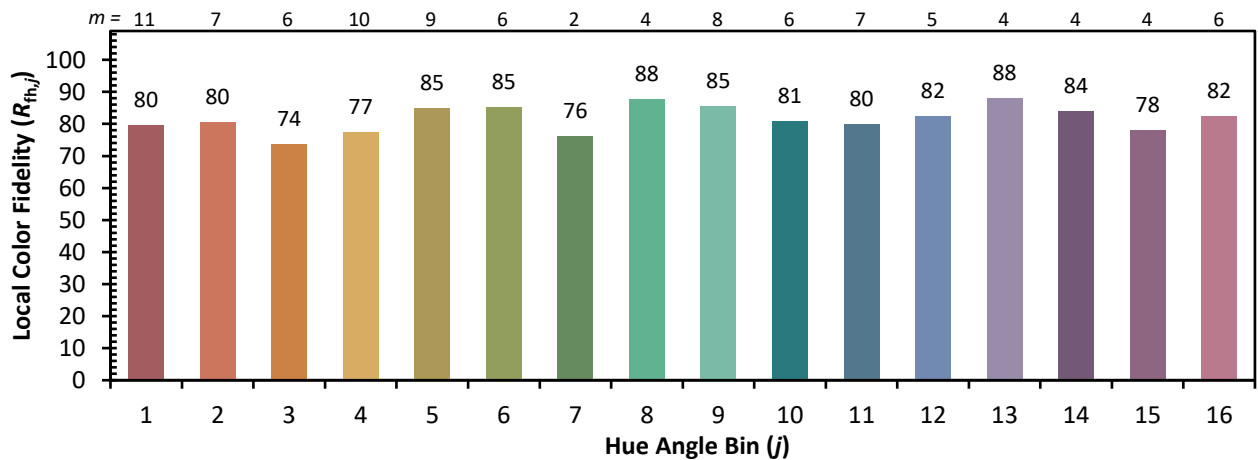
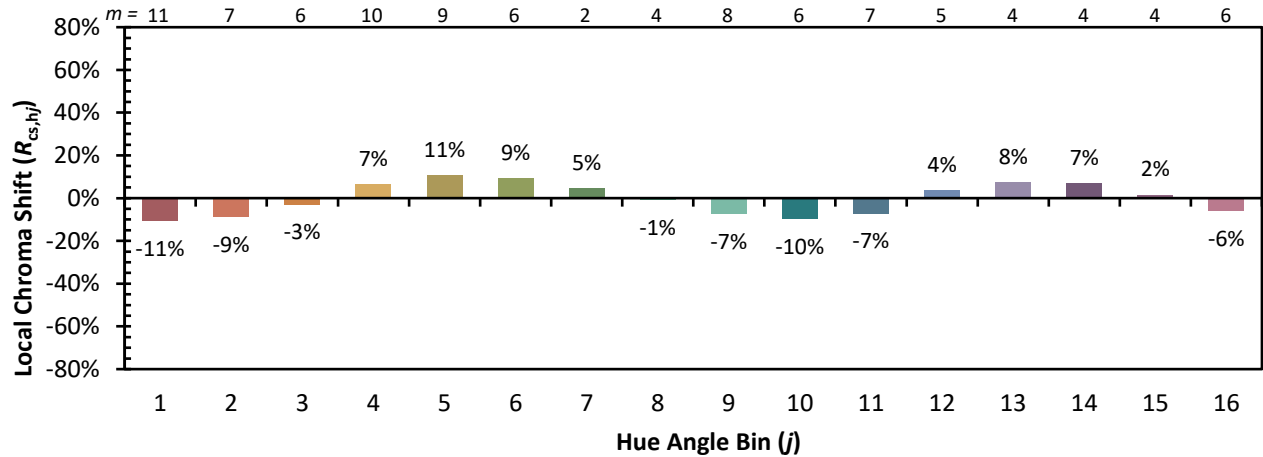


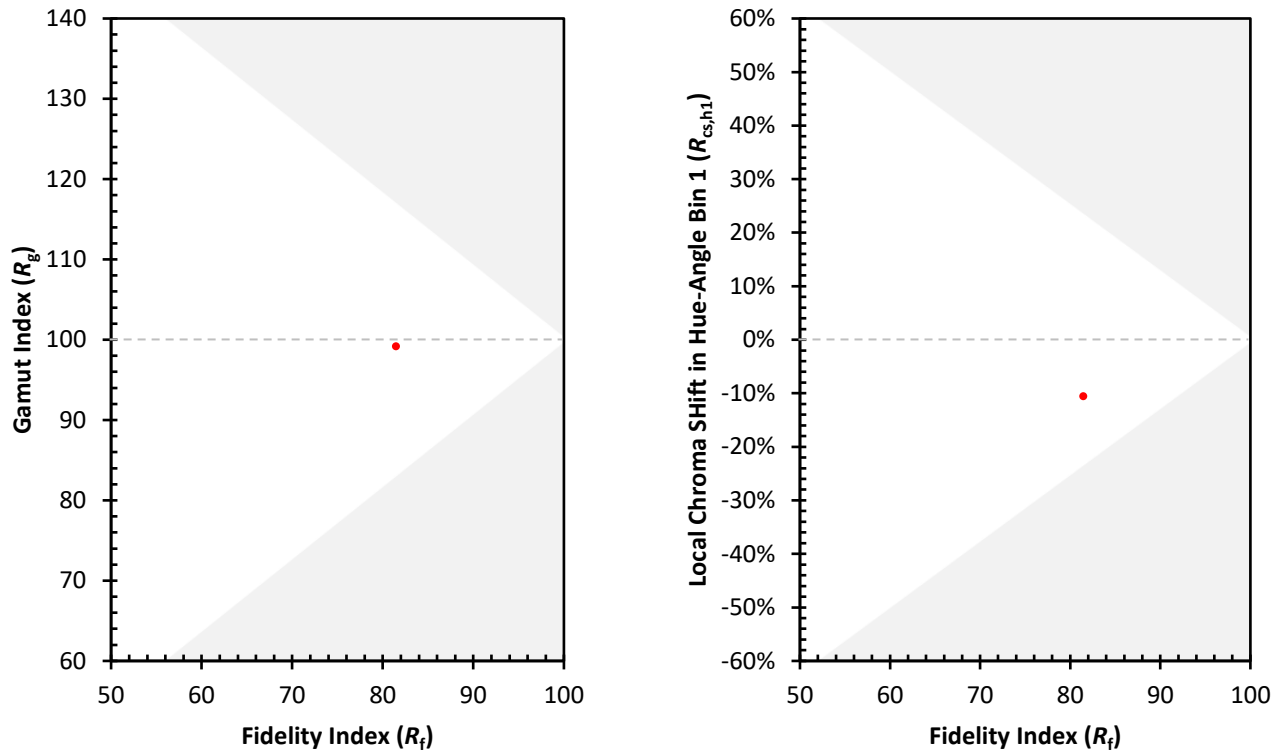
Individual Sample Fidelity Index ($R_{f,i}$)

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)