

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: P1067621

Luminaire Tested: **NAV-SA5A-835-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067621
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5A-835-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
80CRI 3500K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15528.6 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 137.4
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

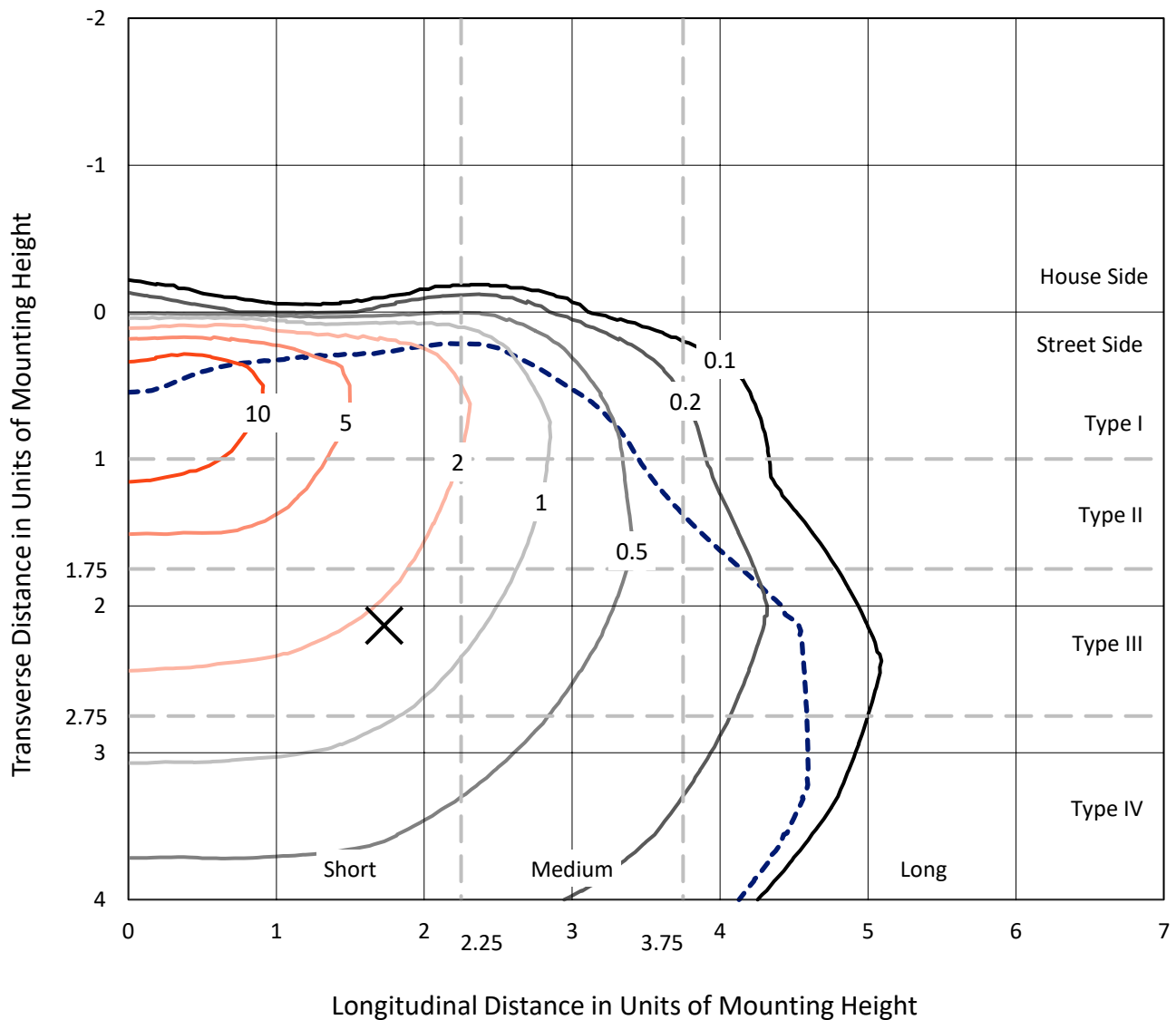


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

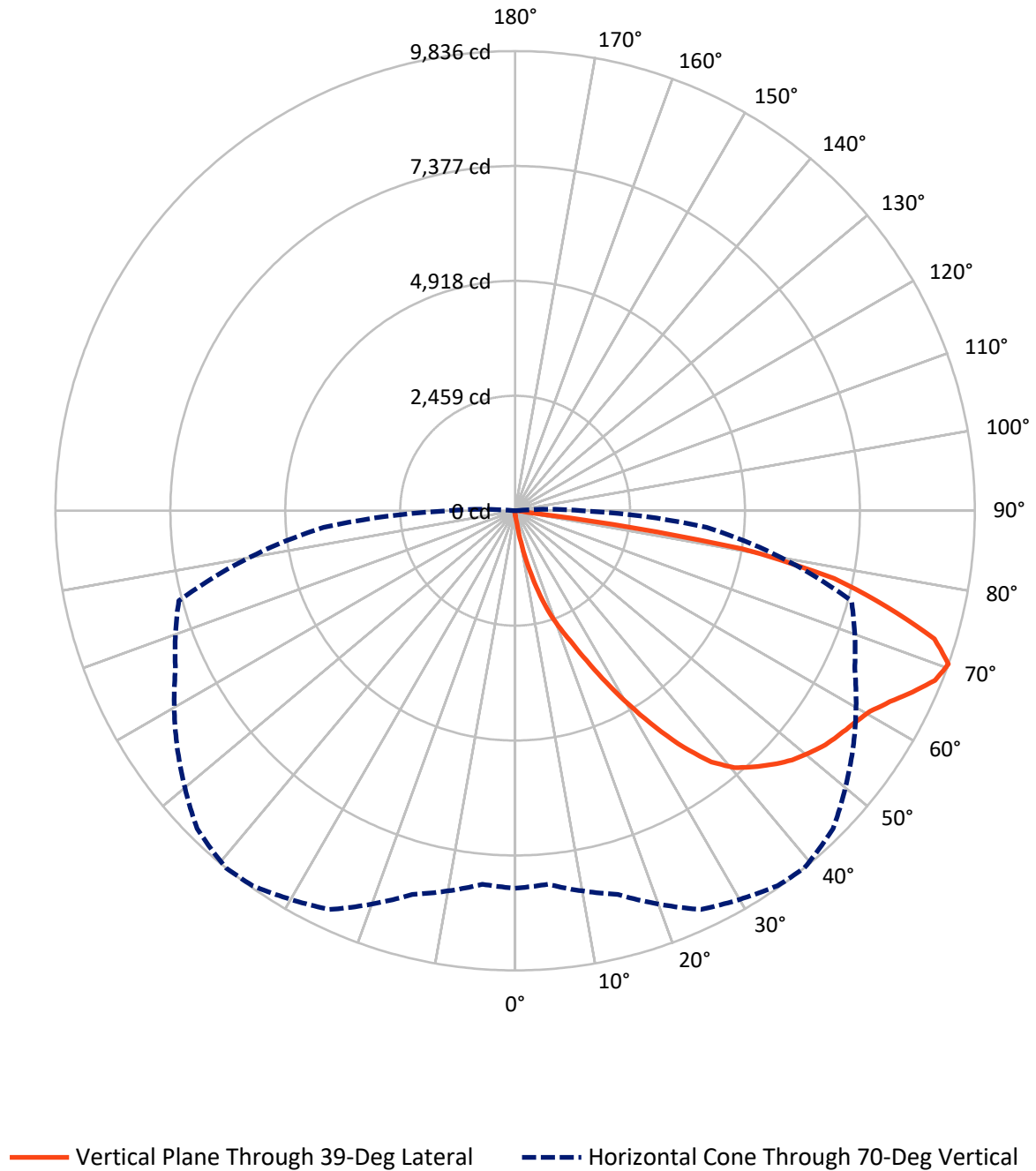


Based on 15 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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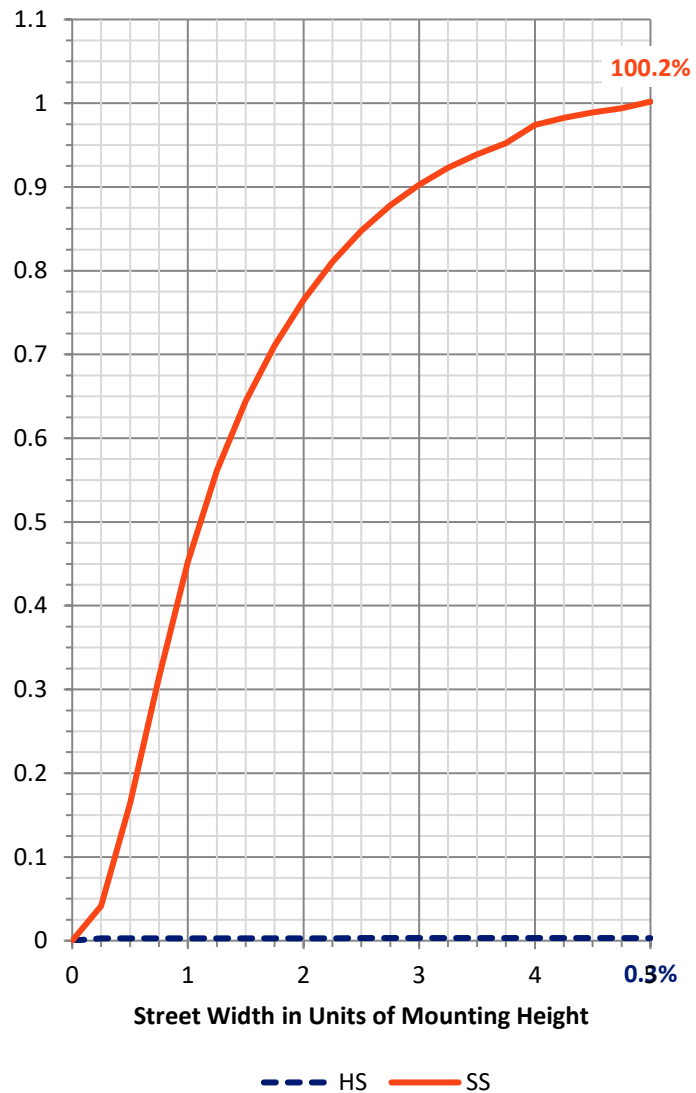
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.8	0.0	47.8
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	15480.8	0.0	15480.8
	% Fixture	99.7	0.0	99.7
Total	Lumens	15528.6	0.0	15528.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.1
10°-20°	190.9	1.2
20°-30°	647.8	4.2
30°-40°	1522.5	9.8
40°-50°	2472.3	15.9
50°-60°	3132.9	20.2
60°-70°	3979.6	25.6
70°-80°	3233.4	20.8
80°-90°	332.9	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°	15528.6	100.0
0°-180°	15528.6	100.0



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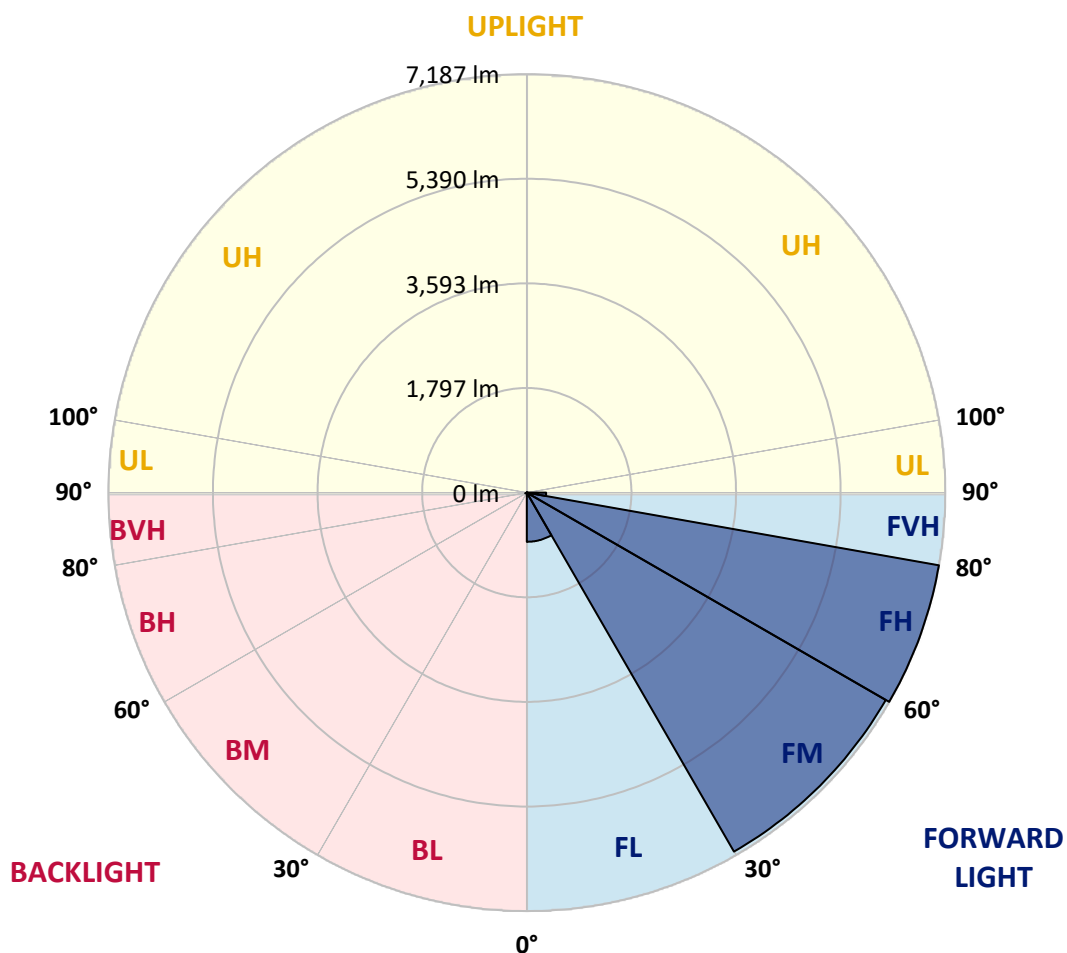
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.7	5.4			
FM	(30°-60°)	7118.5	45.8			
FH	(60°-80°)	7186.7	46.3			G3/7500
FVH	(80°-90°)	330.9	2.1			G3/500
BL	(0°-30°)	10.3	0.1	B0/110		
BM	(30°-60°)	9.2	0.1	B0/220		
BH	(60°-80°)	26.3	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 IV Short



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CATALOG NUMBER: NAV-SA5A-835-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2.5°	109.6	109.6	109.6	105.4	105.4	101.2	101.2	97.0	92.8	92.8	88.5
5°	206.6	210.8	198.2	172.9	156.0	147.6	139.1	118.0	105.4	97.0	88.5
7.5°	564.9	548.1	522.8	438.5	337.3	286.7	244.5	172.9	126.5	101.2	88.5
10°	1188.9	1142.5	1070.9	957.0	758.9	678.8	527.0	316.2	177.1	113.8	88.5
12.5°	1745.4	1753.8	1665.3	1555.7	1315.4	1180.5	973.9	594.5	278.3	134.9	88.5
15°	2167.0	2158.6	2124.8	2036.3	1821.3	1690.6	1505.1	999.2	468.0	168.6	92.8
17.5°	2500.1	2466.3	2453.7	2415.7	2276.6	2204.9	2002.6	1471.4	742.0	227.7	97.0
20°	2833.1	2824.7	2812.0	2769.9	2677.1	2626.5	2470.6	1947.8	1104.6	324.6	105.4
22.5°	3318.0	3271.6	3280.0	3187.3	3111.4	3022.8	2896.4	2453.7	1522.0	463.8	118.0
25°	3887.1	3882.9	3815.4	3773.3	3646.8	3549.8	3381.2	2942.7	1985.7	670.3	130.7
27.5°	4557.5	4511.1	4481.6	4409.9	4279.2	4169.6	3937.7	3427.6	2487.4	902.2	147.6
30°	5257.3	5257.3	5202.5	5092.9	4966.4	4831.5	4595.4	3937.7	2984.9	1197.3	168.6
32.5°	6075.2	6092.1	5957.2	5792.7	5628.3	5535.6	5227.8	4515.3	3461.3	1534.6	193.9
35°	6867.8	6846.7	6623.3	6442.0	6319.7	6218.5	5957.2	5147.7	4000.9	1926.7	227.7
37.5°	7626.7	7571.9	7200.9	6943.7	6888.9	6821.4	6560.0	5780.1	4536.4	2360.9	269.8
40°	8170.5	8086.2	7702.6	7348.4	7268.3	7230.4	7028.0	6353.5	5101.3	2845.8	324.6
42.5°	8406.6	8309.7	8044.1	7757.4	7580.3	7491.8	7314.7	6821.4	5666.3	3385.4	404.7
45°	8453.0	8377.1	8187.4	8119.9	7879.6	7744.7	7504.4	7154.5	6193.2	3920.8	514.3
47.5°	8284.4	8250.6	8136.8	8280.2	8157.9	7972.4	7681.5	7403.2	6661.2	4570.1	666.1
50°	7871.2	7845.9	7900.7	8275.9	8360.3	8149.5	7875.4	7597.2	7066.0	5240.4	881.1
52.5°	7314.7	7310.5	7567.7	8166.3	8448.8	8318.1	8065.1	7791.1	7386.4	5889.7	1184.7
55°	6707.6	6779.3	7230.4	8065.1	8499.4	8440.4	8250.6	7964.0	7673.1	6492.6	1673.7
57.5°	6657.0	6627.5	7061.7	8023.0	8528.9	8562.6	8436.1	8145.2	7917.6	6985.9	2327.2
60°	7162.9	7095.5	7259.9	8111.5	8659.6	8718.6	8621.6	8284.4	8162.1	7373.7	3187.3
62.5°	7748.9	7685.7	7770.0	8453.0	8916.8	9001.1	8878.8	8427.7	8360.3	7643.5	4110.6
65°	8216.9	8166.3	8326.5	8963.1	9275.1	9346.8	9262.5	8693.3	8448.8	7862.8	4861.0
67.5°	8292.8	8229.6	8562.6	9304.6	9637.7	9688.3	9620.8	8950.5	8419.3	7879.6	5033.9
70°	8077.8	8023.0	8499.4	9414.2	9793.7	9835.8	9620.8	8828.2	8018.8	7449.6	4114.8
72.5°	7415.9	7458.0	8073.6	9148.6	9578.7	9384.7	8929.4	8212.7	7500.2	6315.5	2887.9
75°	6387.2	6433.6	7251.5	8419.3	8453.0	8216.9	7972.4	7555.0	6711.8	4161.2	2002.6
77.5°	4540.6	4376.2	5598.8	6952.1	6829.9	6981.6	7002.7	6286.0	5619.9	2167.0	1340.7
80°	446.9	379.4	704.1	1994.2	4405.7	4924.2	5126.6	4844.1	4144.3	969.7	704.1
82.5°	97.0	97.0	105.4	113.8	177.1	265.6	1218.4	2984.9	2677.1	493.3	227.7
85°	54.8	54.8	67.5	80.1	105.4	118.0	139.1	185.5	720.9	177.1	42.2
87.5°	42.2	46.4	54.8	67.5	88.5	97.0	118.0	147.6	181.3	164.4	12.6
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-SA5A-835-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2.5°	88.5	84.3	80.1	75.9	71.7	71.7	67.5	67.5	67.5	67.5	67.5
5°	84.3	80.1	75.9	67.5	63.2	59.0	54.8	54.8	54.8	54.8	54.8
7.5°	84.3	80.1	71.7	63.2	54.8	50.6	46.4	42.2	42.2	46.4	46.4
10°	84.3	75.9	63.2	54.8	46.4	42.2	37.9	33.7	33.7	33.7	33.7
12.5°	80.1	71.7	59.0	50.6	42.2	33.7	25.3	21.1	21.1	21.1	21.1
15°	75.9	67.5	54.8	42.2	29.5	21.1	16.9	12.6	12.6	12.6	12.6
17.5°	75.9	63.2	50.6	37.9	21.1	12.6	8.4	4.2	4.2	4.2	8.4
20°	75.9	63.2	46.4	29.5	12.6	8.4	8.4	4.2	0.0	4.2	4.2
22.5°	75.9	59.0	37.9	21.1	12.6	8.4	4.2	0.0	0.0	0.0	0.0
25°	80.1	59.0	33.7	16.9	8.4	4.2	0.0	0.0	0.0	0.0	0.0
27.5°	80.1	54.8	29.5	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
30°	84.3	54.8	25.3	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	84.3	50.6	16.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	84.3	46.4	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	84.3	42.2	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	88.5	37.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	92.8	33.7	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	97.0	29.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	109.6	29.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	126.5	29.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	151.8	29.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	198.2	25.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	286.7	25.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	480.6	25.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	843.2	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1425.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1859.2	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1412.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	674.6	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	299.3	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	130.7	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.6	8.4	4.2	4.2	4.2	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	8.4	4.2	4.2	4.2	4.2	4.2	0.0	0.0	0.0	0.0
85°	12.6	8.4	8.4	8.4	4.2	4.2	4.2	0.0	0.0	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

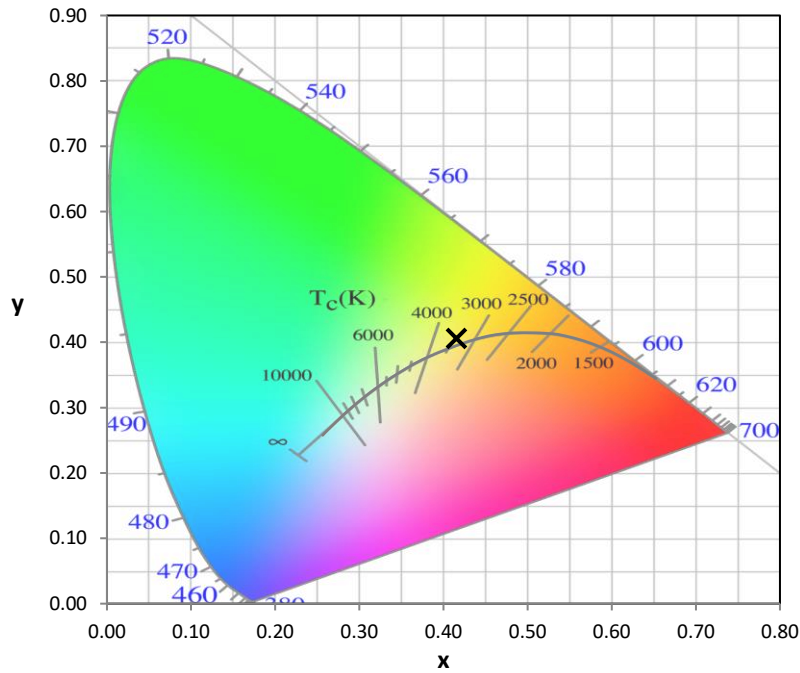
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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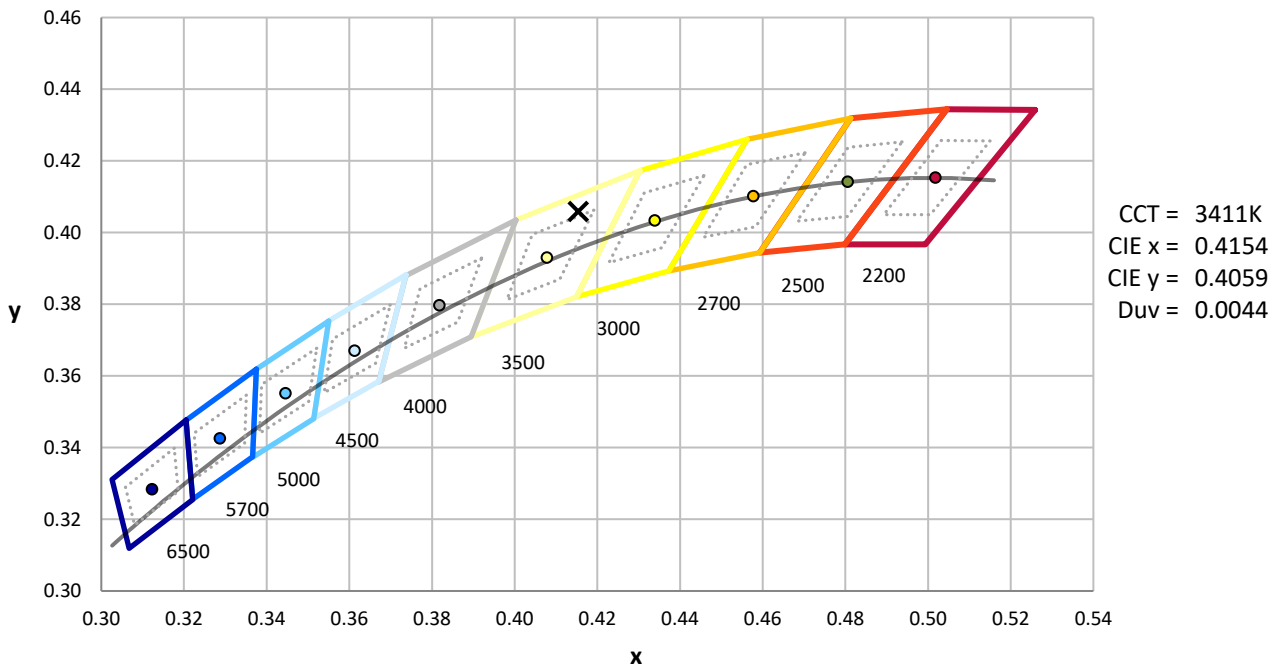
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



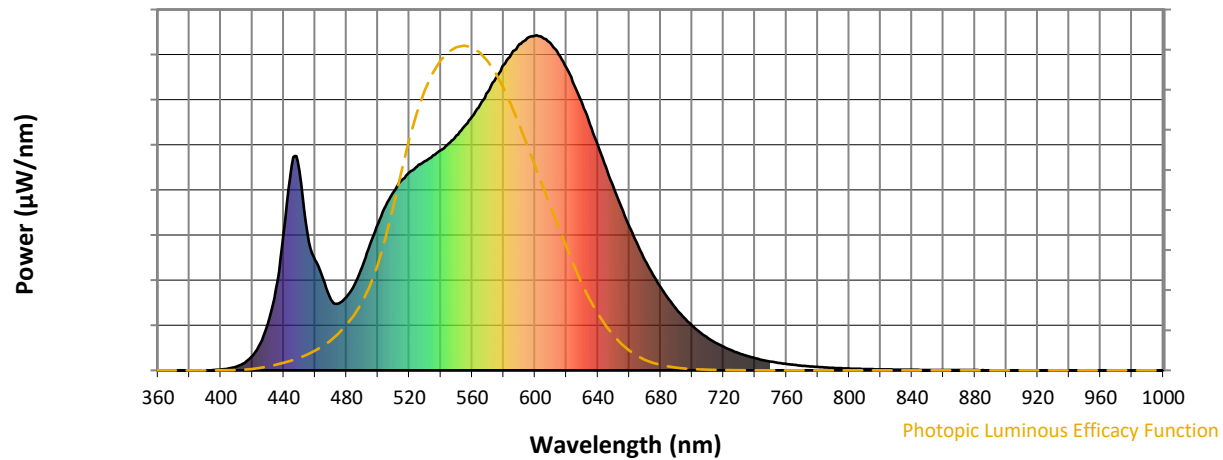
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

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Photopic Flux vs. Wavelength

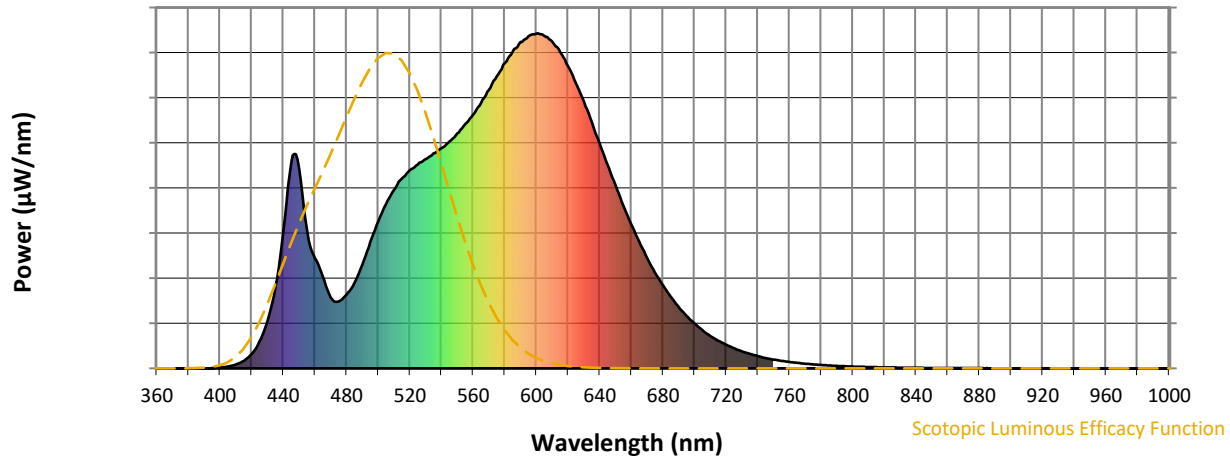


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



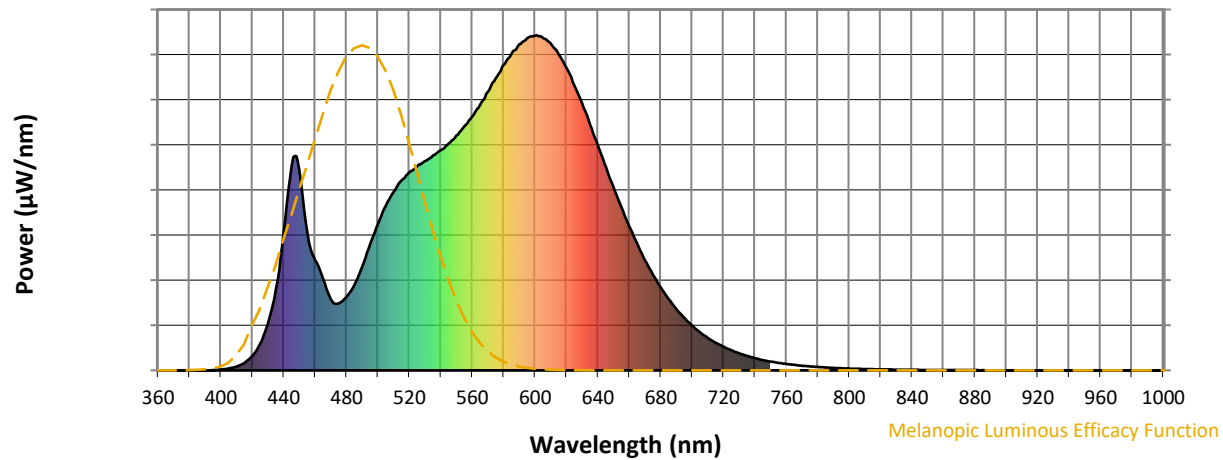
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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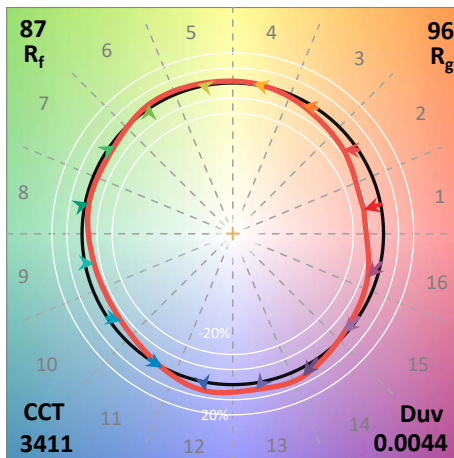
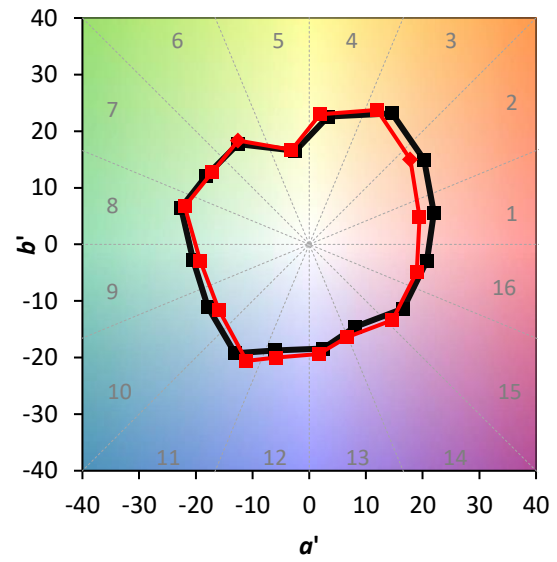
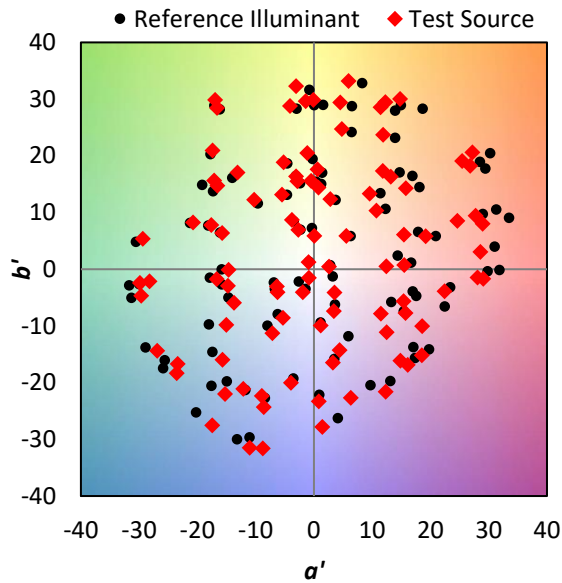
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$



Color Vector Graphics

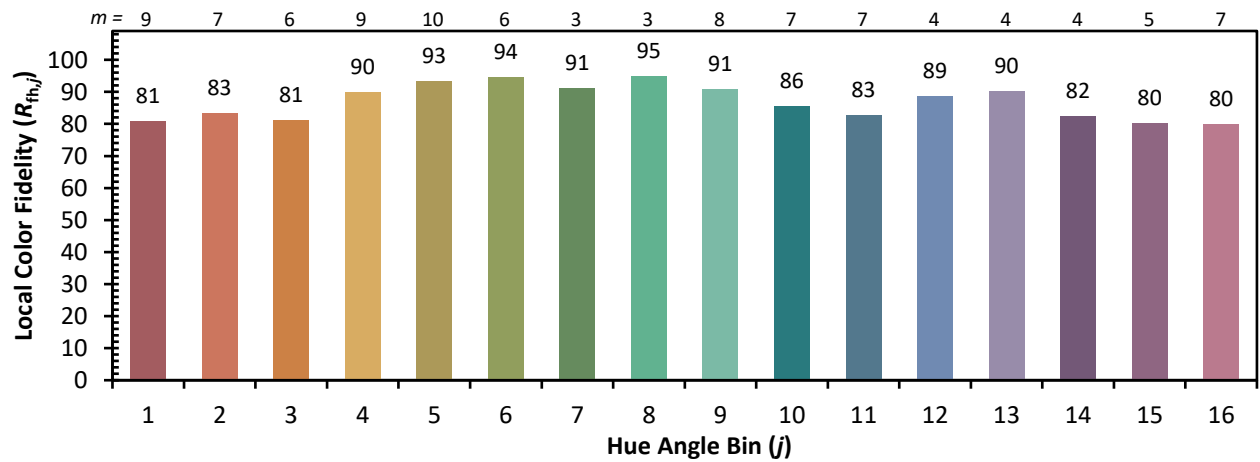
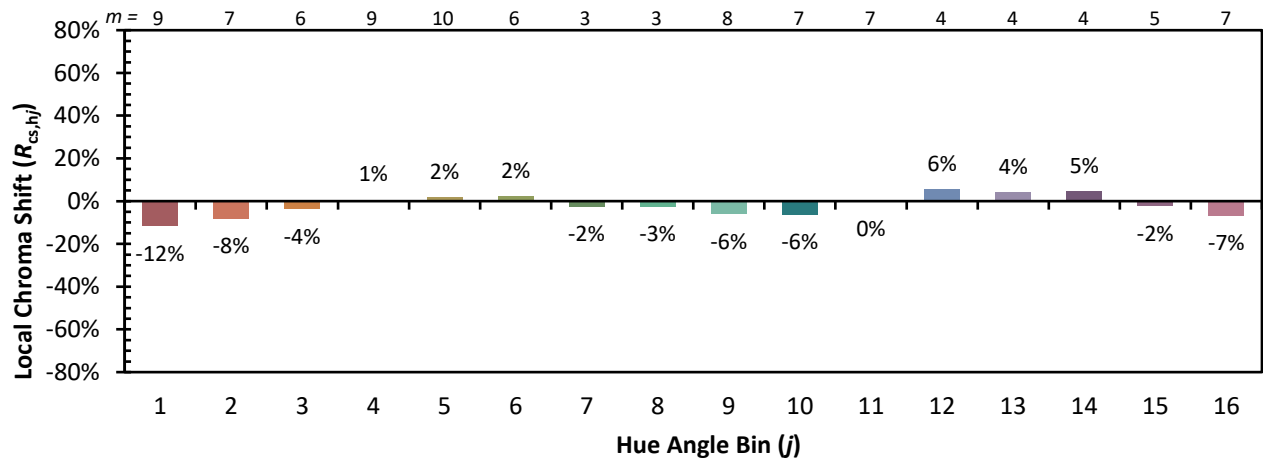


Individual Sample Fidelity Index ($R_{f,i}$)

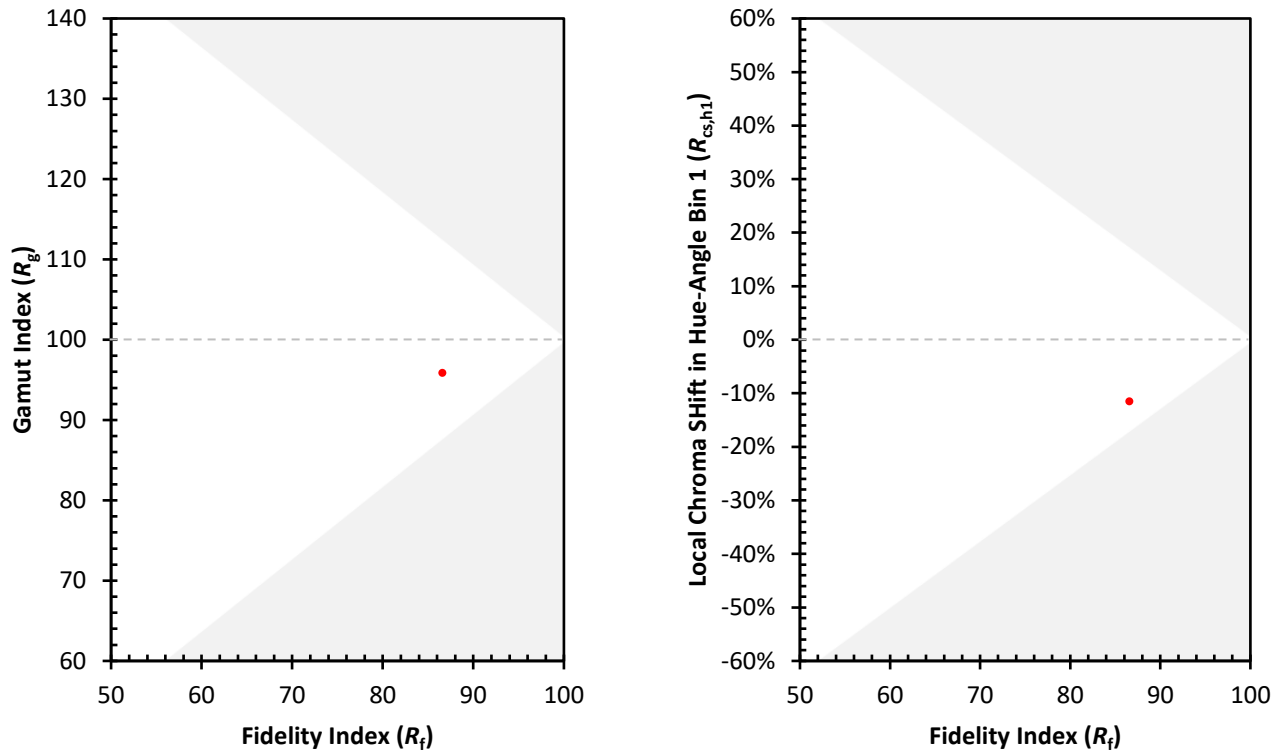
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)