

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: P1067620

Luminaire Tested: **NAV-SA4D-835-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067620
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4D-835-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 4xLight Square PACKAGE
80CRI 3500K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21236.1 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 218.9
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

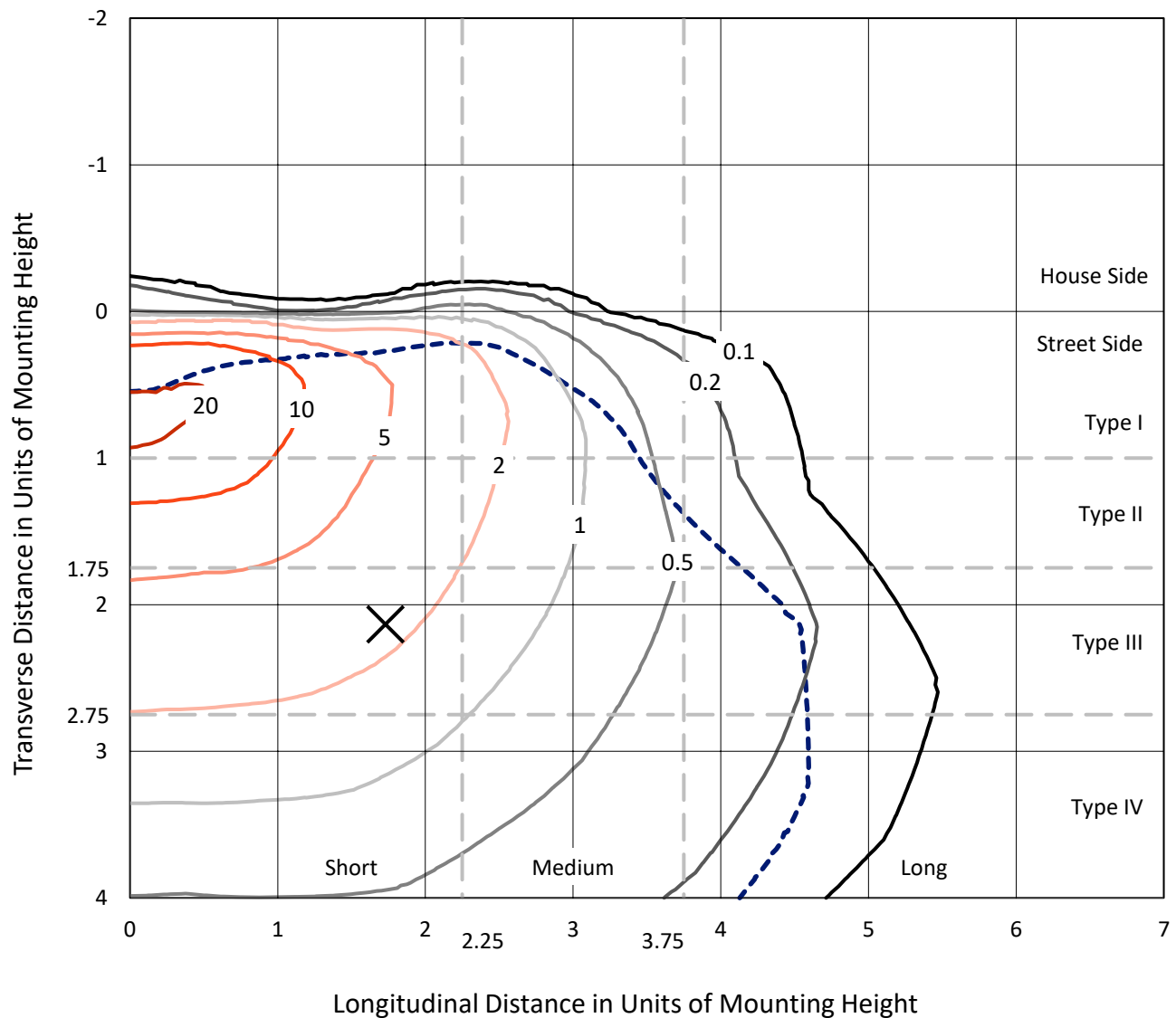


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

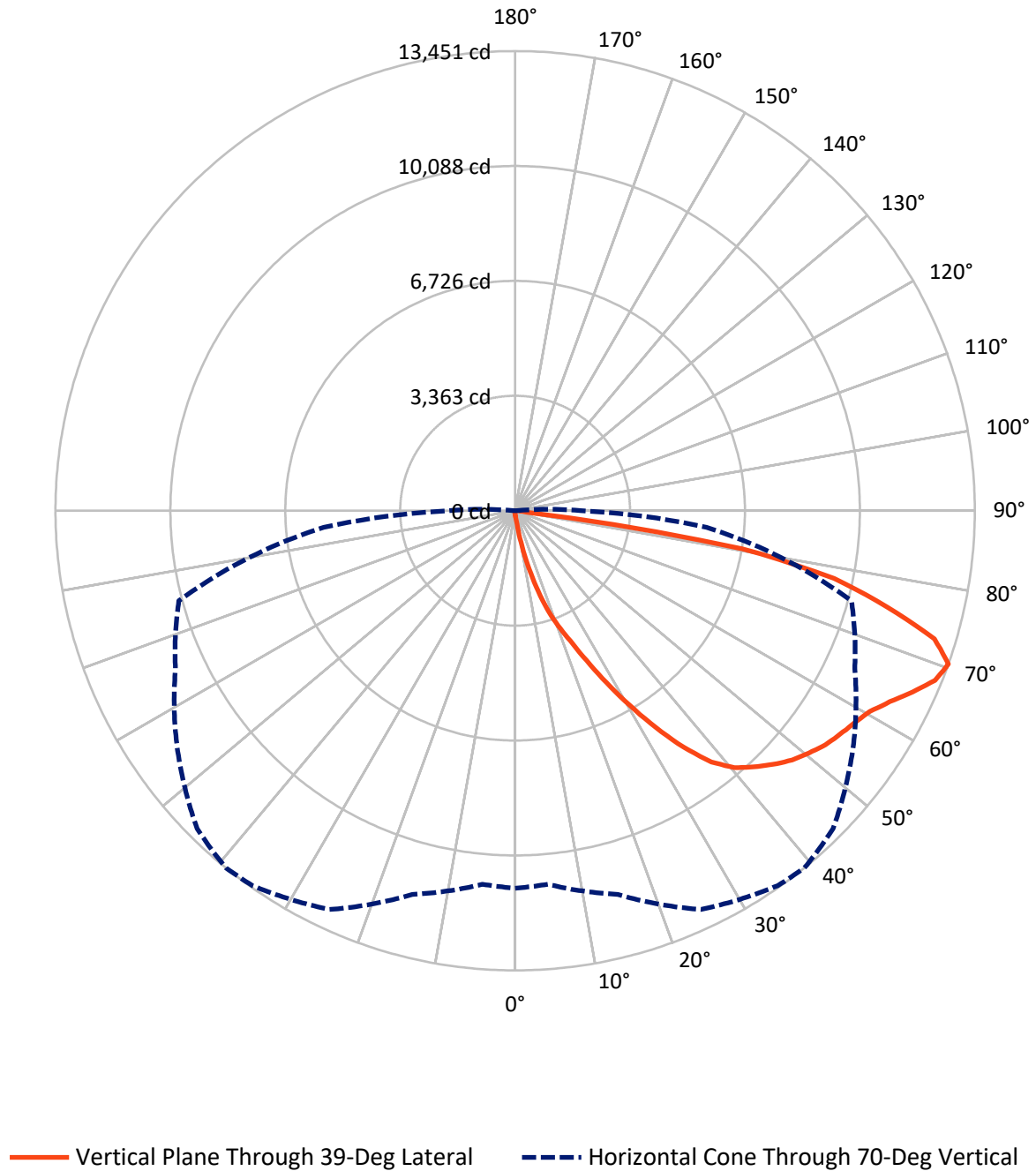


Based on 15 foot mounting height. Maximum calculated value = 23.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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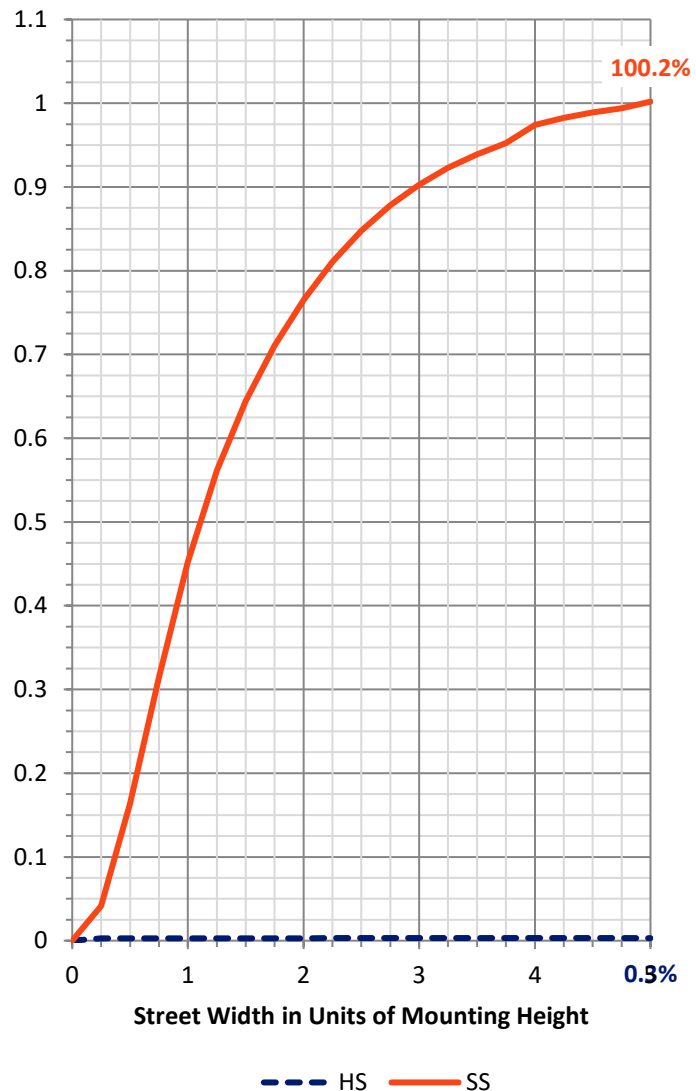
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	65.4	0.0	65.4
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	21170.7	0.0	21170.7
	% Fixture	99.7	0.0	99.7
Total	Lumens	21236.1	0.0	21236.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.1
10°-20°	261.1	1.2
20°-30°	885.9	4.2
30°-40°	2082.1	9.8
40°-50°	3380.9	15.9
50°-60°	4284.3	20.2
60°-70°	5442.2	25.6
70°-80°	4421.8	20.8
80°-90°	455.3	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°	21236.1	100.0
0°-180°	21236.1	100.0



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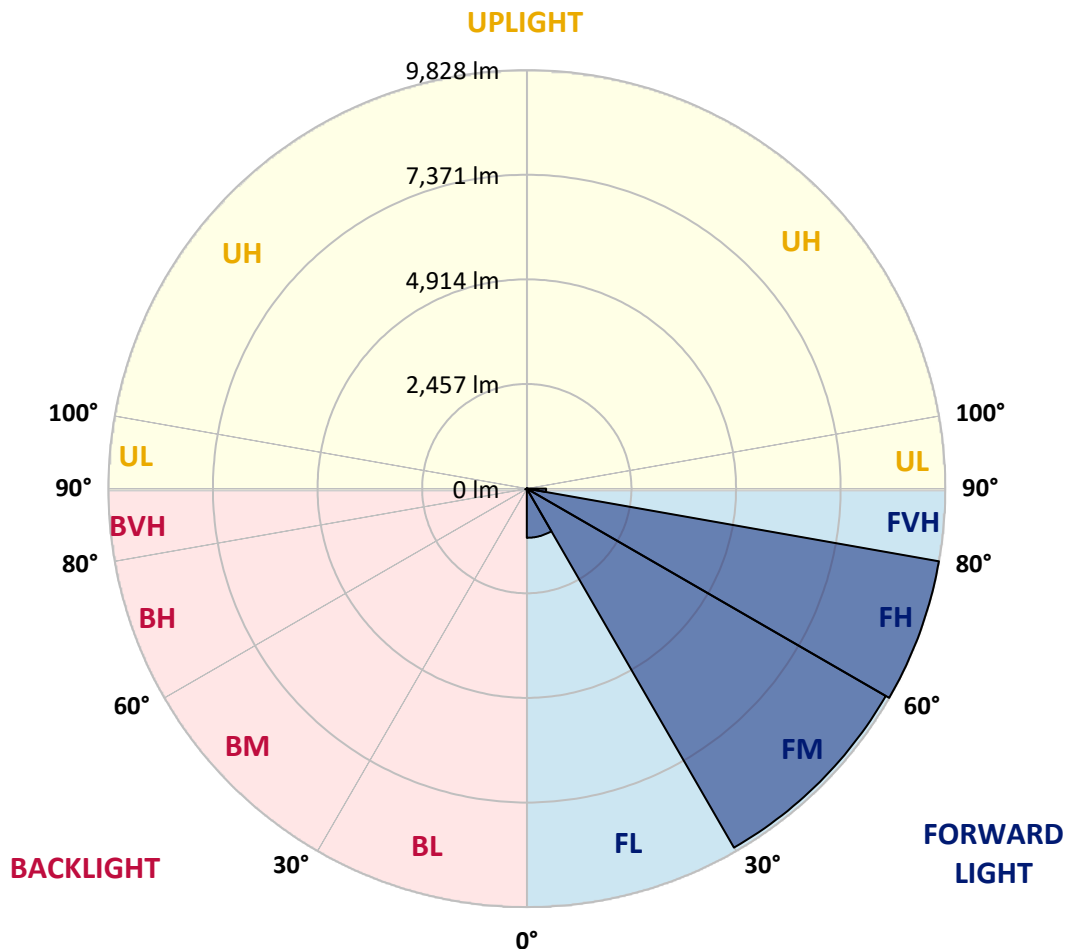
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.2	5.4			
FM	(30°-60°)	9734.8	45.8			
FH	(60°-80°)	9828.1	46.3			G4/12000
FVH	(80°-90°)	452.6	2.1			G3/500
BL	(0°-30°)	14.2	0.1	B0/110		
BM	(30°-60°)	12.6	0.1	B0/220		
BH	(60°-80°)	36.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	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°	149.9	149.9	149.9	144.1	144.1	138.4	138.4	132.6	126.8	126.8	121.1
5°	282.5	288.3	271.0	236.4	213.3	201.8	190.3	161.4	144.1	132.6	121.1
7.5°	772.6	749.5	714.9	599.6	461.2	392.1	334.4	236.4	173.0	138.4	121.1
10°	1625.9	1562.5	1464.4	1308.8	1037.8	928.3	720.7	432.4	242.2	155.7	121.1
12.5°	2386.9	2398.5	2277.4	2127.5	1798.8	1614.3	1331.8	812.9	380.5	184.5	121.1
15°	2963.5	2952.0	2905.8	2784.8	2490.7	2312.0	2058.3	1366.4	640.0	230.6	126.8
17.5°	3419.0	3372.8	3355.5	3303.7	3113.4	3015.4	2738.6	2012.2	1014.7	311.3	132.6
20°	3874.4	3862.9	3845.6	3788.0	3661.1	3591.9	3378.6	2663.7	1510.6	443.9	144.1
22.5°	4537.5	4474.1	4485.6	4358.7	4255.0	4133.9	3960.9	3355.5	2081.4	634.2	161.4
25°	5315.8	5310.1	5217.8	5160.2	4987.2	4854.6	4624.0	4024.3	2715.6	916.7	178.7
27.5°	6232.5	6169.1	6128.8	6030.7	5852.0	5702.1	5385.0	4687.4	3401.7	1233.8	201.8
30°	7189.6	7189.6	7114.7	6964.8	6791.8	6607.3	6284.4	5385.0	4082.0	1637.4	230.6
32.5°	8308.1	8331.2	8146.7	7921.8	7697.0	7570.1	7149.3	6174.9	4733.5	2098.7	265.2
35°	9392.1	9363.2	9057.7	8809.7	8642.5	8504.2	8146.7	7039.7	5471.5	2634.8	311.3
37.5°	10429.9	10354.9	9847.5	9495.8	9420.9	9328.6	8971.2	7904.5	6203.7	3228.7	369.0
40°	11173.6	11058.3	10533.6	10049.3	9939.8	9887.9	9611.1	8688.7	6976.3	3891.7	443.9
42.5°	11496.5	11363.9	11000.6	10608.6	10366.4	10245.4	10003.2	9328.6	7748.9	4629.7	553.5
45°	11559.9	11456.1	11196.7	11104.4	10775.8	10591.3	10262.7	9784.1	8469.6	5361.9	703.4
47.5°	11329.3	11283.1	11127.5	11323.5	11156.3	10902.6	10504.8	10124.3	9109.5	6249.8	911.0
50°	10764.3	10729.7	10804.6	11317.7	11433.1	11144.8	10770.0	10389.5	9663.0	7166.6	1205.0
52.5°	10003.2	9997.4	10349.1	11167.8	11554.1	11375.4	11029.5	10654.7	10101.2	8054.5	1620.1
55°	9173.0	9271.0	9887.9	11029.5	11623.3	11542.6	11283.1	10891.1	10493.3	8878.9	2288.9
57.5°	9103.8	9063.4	9657.3	10971.8	11663.7	11709.8	11536.8	11139.0	10827.7	9553.5	3182.6
60°	9795.6	9703.4	9928.2	11092.9	11842.4	11923.1	11790.5	11329.3	11162.1	10083.9	4358.7
62.5°	10597.1	10510.6	10625.9	11559.9	12194.1	12309.4	12142.2	11525.3	11433.1	10452.9	5621.4
65°	11237.0	11167.8	11386.9	12257.5	12684.2	12782.2	12666.9	11888.5	11554.1	10752.7	6647.7
67.5°	11340.8	11254.3	11709.8	12724.5	13180.0	13249.2	13156.9	12240.2	11513.8	10775.8	6884.0
70°	11046.8	10971.8	11623.3	12874.4	13393.3	13451.0	13156.9	12073.0	10966.0	10187.7	5627.2
72.5°	10141.6	10199.2	11041.0	12511.2	13099.3	12834.1	12211.4	11231.3	10256.9	8636.8	3949.4
75°	8734.8	8798.2	9916.7	11513.8	11559.9	11237.0	10902.6	10331.8	9178.7	5690.6	2738.6
77.5°	6209.5	5984.6	7656.6	9507.4	9340.2	9547.7	9576.6	8596.4	7685.5	2963.5	1833.4
80°	611.1	518.9	962.8	2727.1	6025.0	6734.1	7010.9	6624.6	5667.5	1326.1	962.8
82.5°	132.6	132.6	144.1	155.7	242.2	363.2	1666.2	4082.0	3661.1	674.6	311.3
85°	75.0	75.0	92.2	109.5	144.1	161.4	190.3	253.7	985.9	242.2	57.7
87.5°	57.7	63.4	75.0	92.2	121.1	132.6	161.4	201.8	247.9	224.9	17.3
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°	121.1	115.3	109.5	103.8	98.0	98.0	92.2	92.2	92.2	92.2	92.2
5°	115.3	109.5	103.8	92.2	86.5	80.7	75.0	75.0	75.0	75.0	75.0
7.5°	115.3	109.5	98.0	86.5	75.0	69.2	63.4	57.7	57.7	63.4	63.4
10°	115.3	103.8	86.5	75.0	63.4	57.7	51.9	46.1	46.1	46.1	46.1
12.5°	109.5	98.0	80.7	69.2	57.7	46.1	34.6	28.8	28.8	28.8	28.8
15°	103.8	92.2	75.0	57.7	40.4	28.8	23.1	17.3	17.3	17.3	17.3
17.5°	103.8	86.5	69.2	51.9	28.8	17.3	11.5	5.8	5.8	5.8	11.5
20°	103.8	86.5	63.4	40.4	17.3	11.5	11.5	5.8	0.0	5.8	5.8
22.5°	103.8	80.7	51.9	28.8	17.3	11.5	5.8	0.0	0.0	0.0	0.0
25°	109.5	80.7	46.1	23.1	11.5	5.8	0.0	0.0	0.0	0.0	0.0
27.5°	109.5	75.0	40.4	17.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0
30°	115.3	75.0	34.6	11.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	115.3	69.2	23.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	115.3	63.4	17.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	115.3	57.7	17.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	121.1	51.9	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	126.8	46.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	132.6	40.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	149.9	40.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	173.0	40.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	207.6	40.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	271.0	34.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	392.1	34.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	657.3	34.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1153.1	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1948.8	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2542.6	40.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1931.5	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	922.5	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	409.4	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	178.7	17.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.2	11.5	5.8	5.8	5.8	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	28.8	11.5	5.8	5.8	5.8	5.8	5.8	0.0	0.0	0.0	0.0
85°	17.3	11.5	11.5	11.5	5.8	5.8	5.8	0.0	0.0	0.0	0.0
87.5°	11.5	11.5	11.5	11.5	11.5	5.8	5.8	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

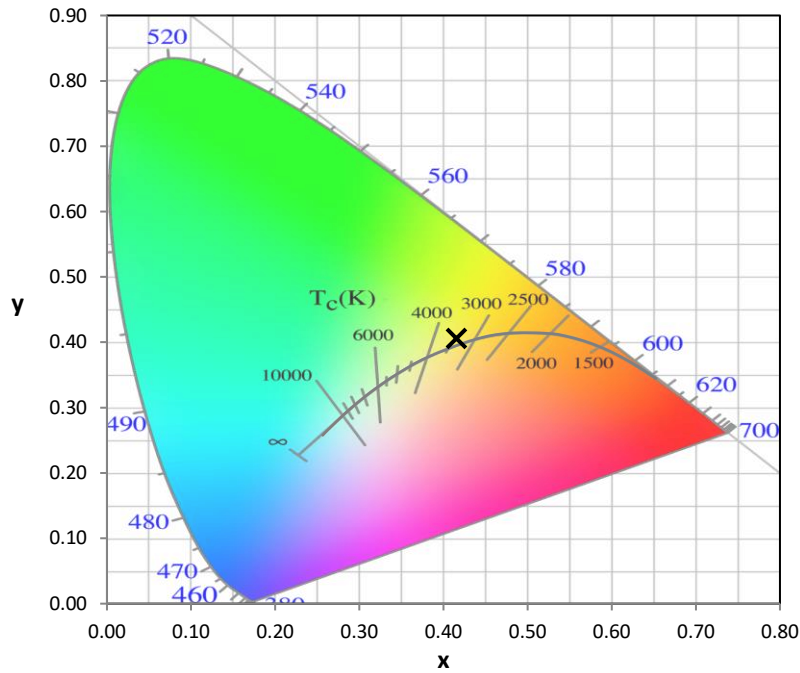
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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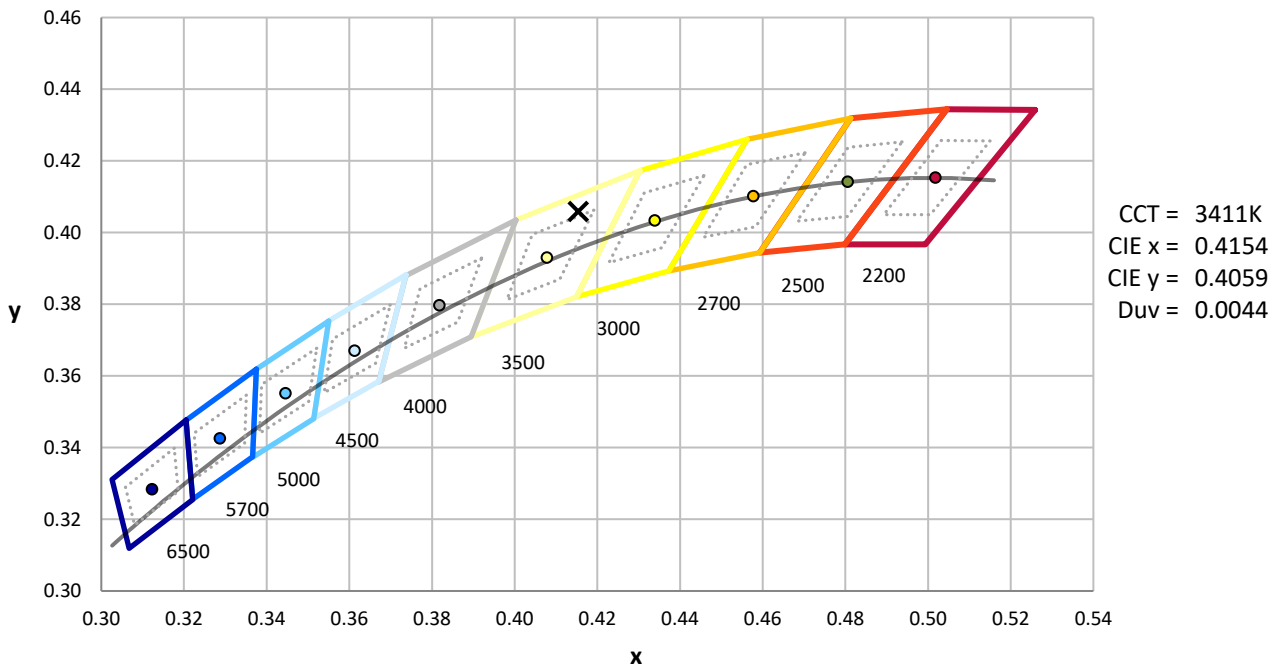
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



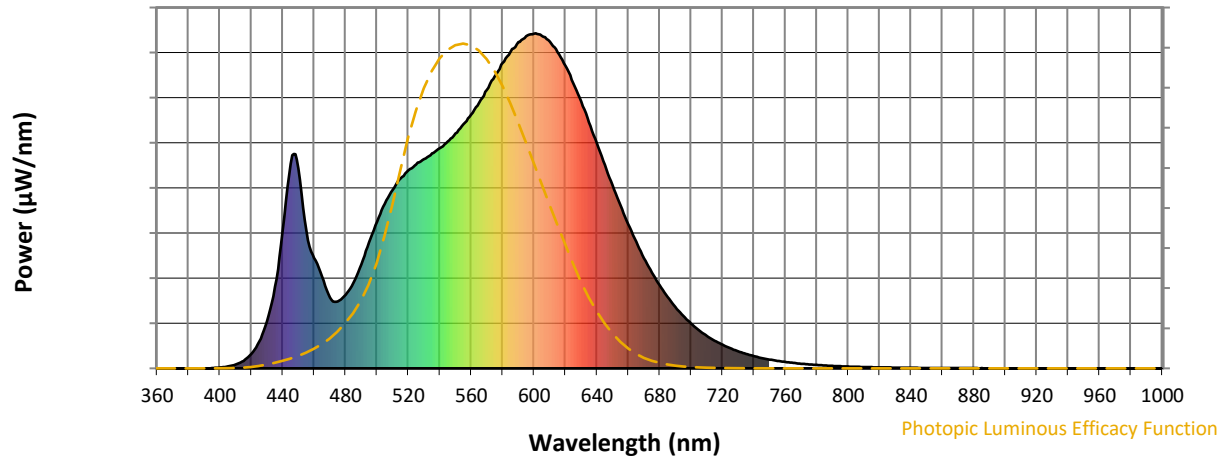
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

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Photopic Flux vs. Wavelength

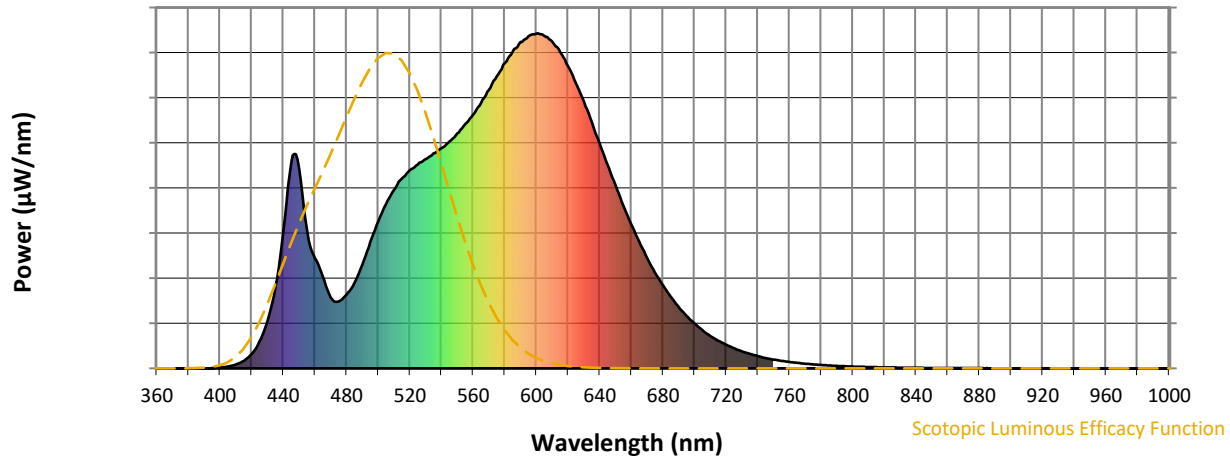


Photopic Lumens: NR

λ (nm)	Power 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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Scotopic Flux vs. Wavelength



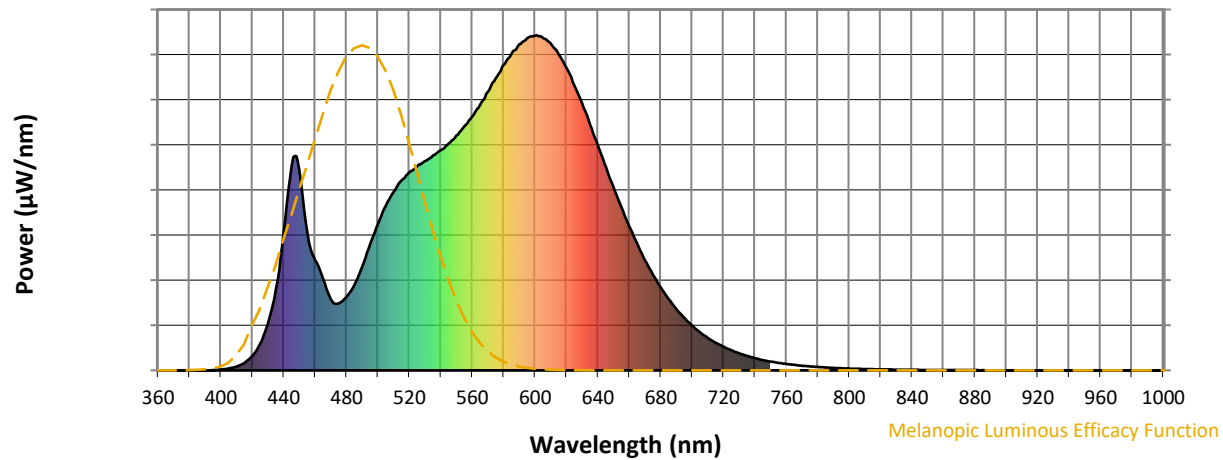
Scotopic Lumens: NR

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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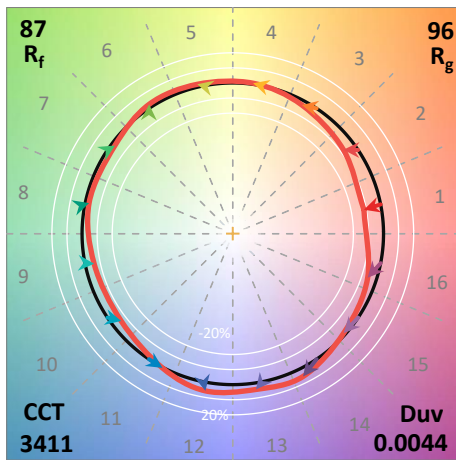
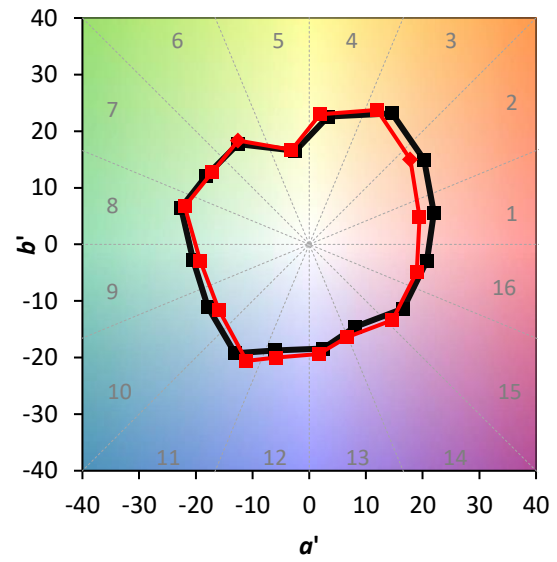
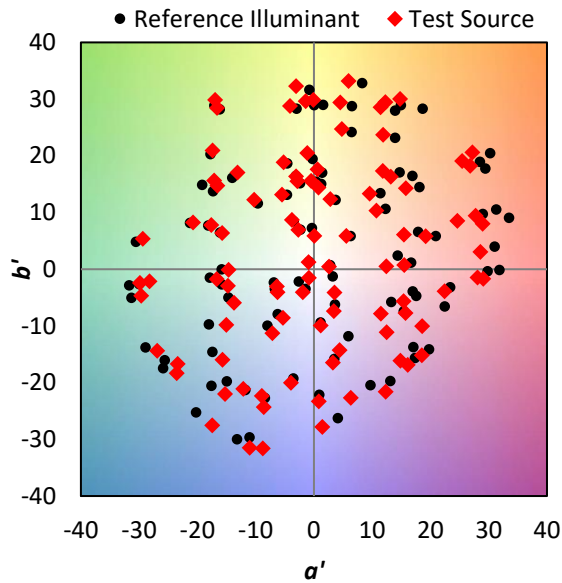
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $\text{CIE } R_a = 83.5$
 $R_9 = 6.3$



Color Vector Graphics

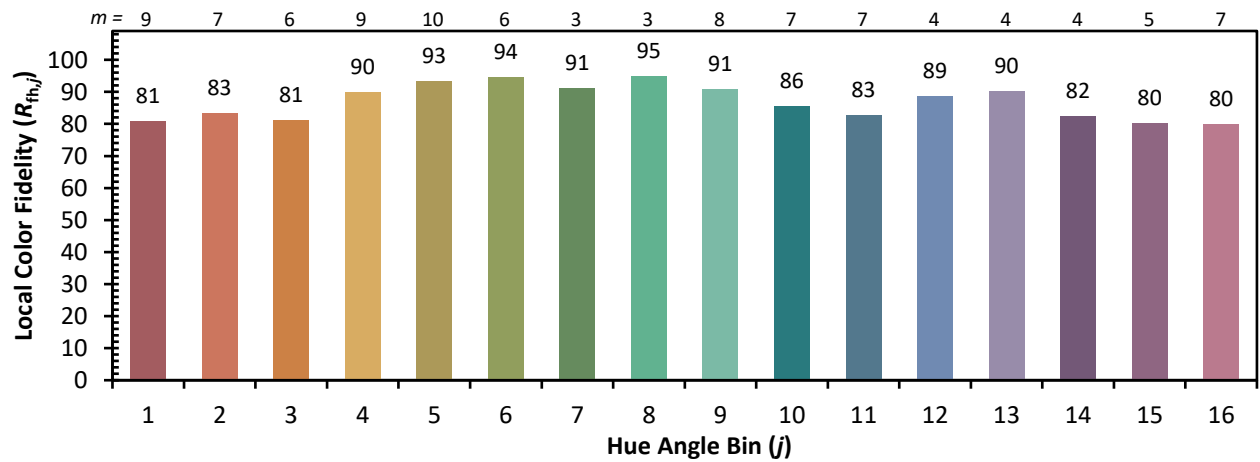
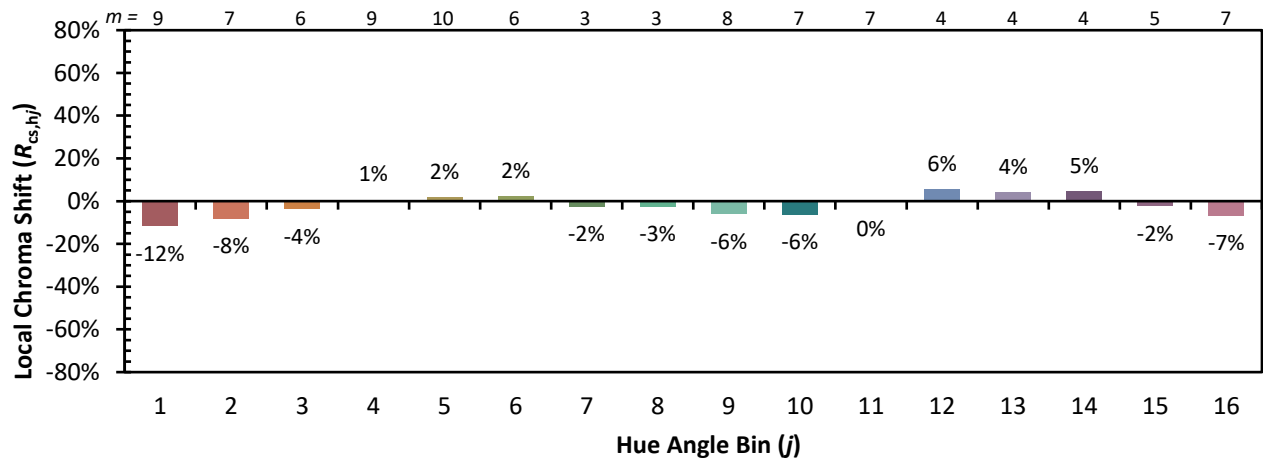


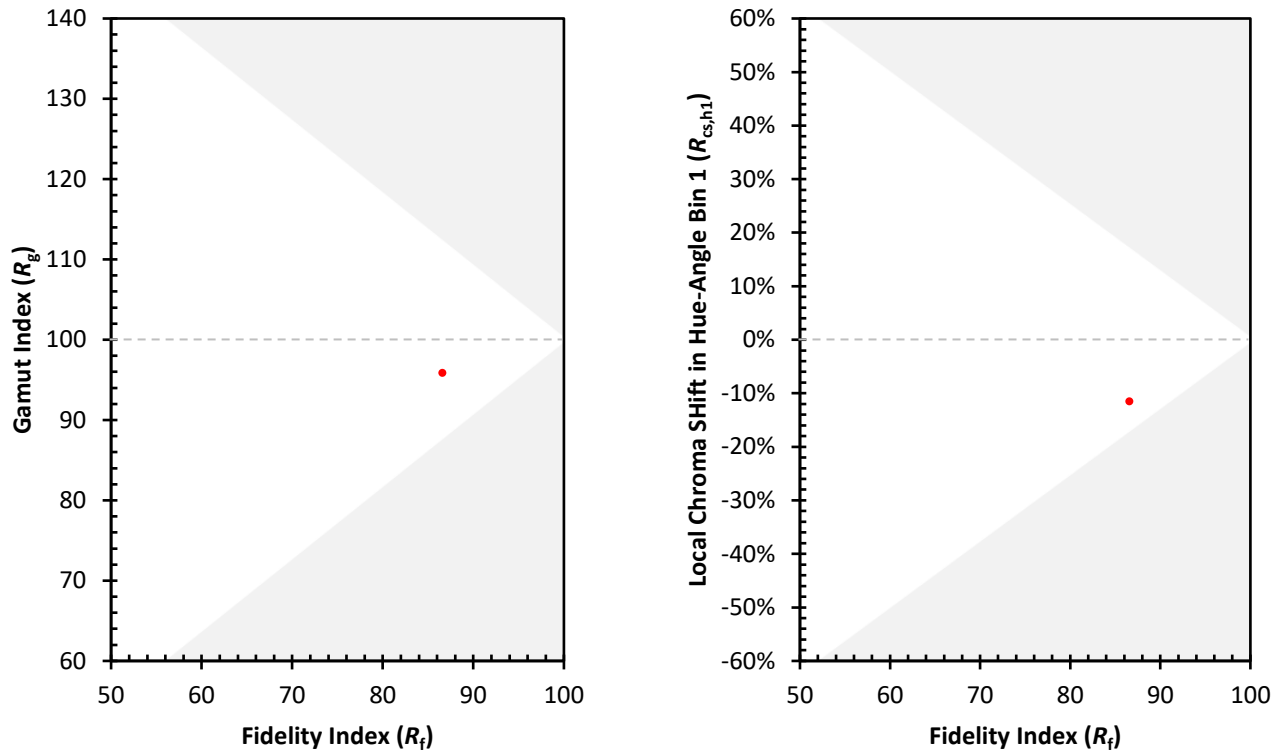
Individual Sample Fidelity Index ($R_{f,i}$)

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)