

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: P1067125

Luminaire Tested: **NAV-SA1A-835-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067125
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-835-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
80CRI 3500K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3380 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29.2
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

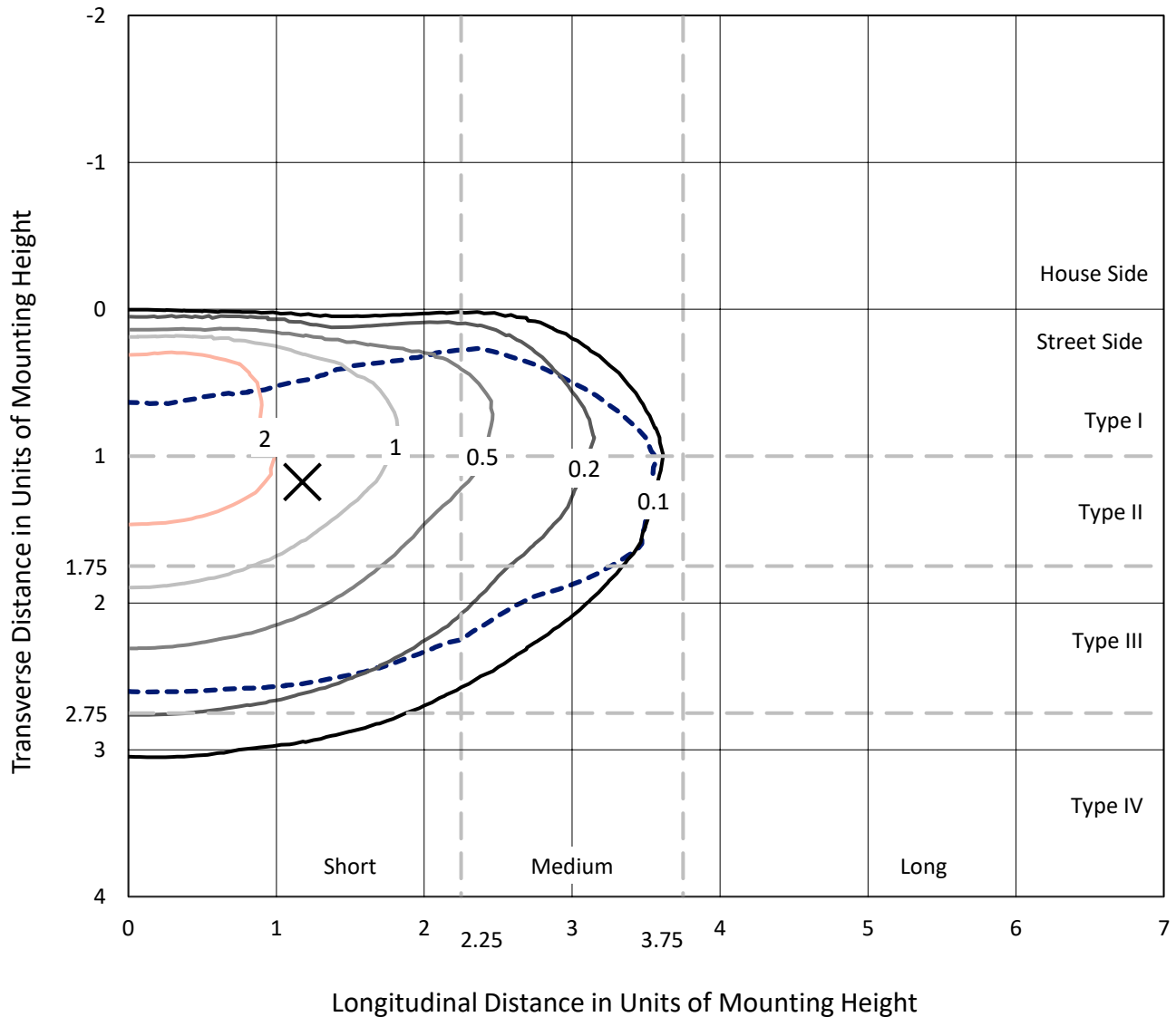


REPORT NUMBER: P1067125

CATALOG NUMBER: NAV-SA1A-835-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

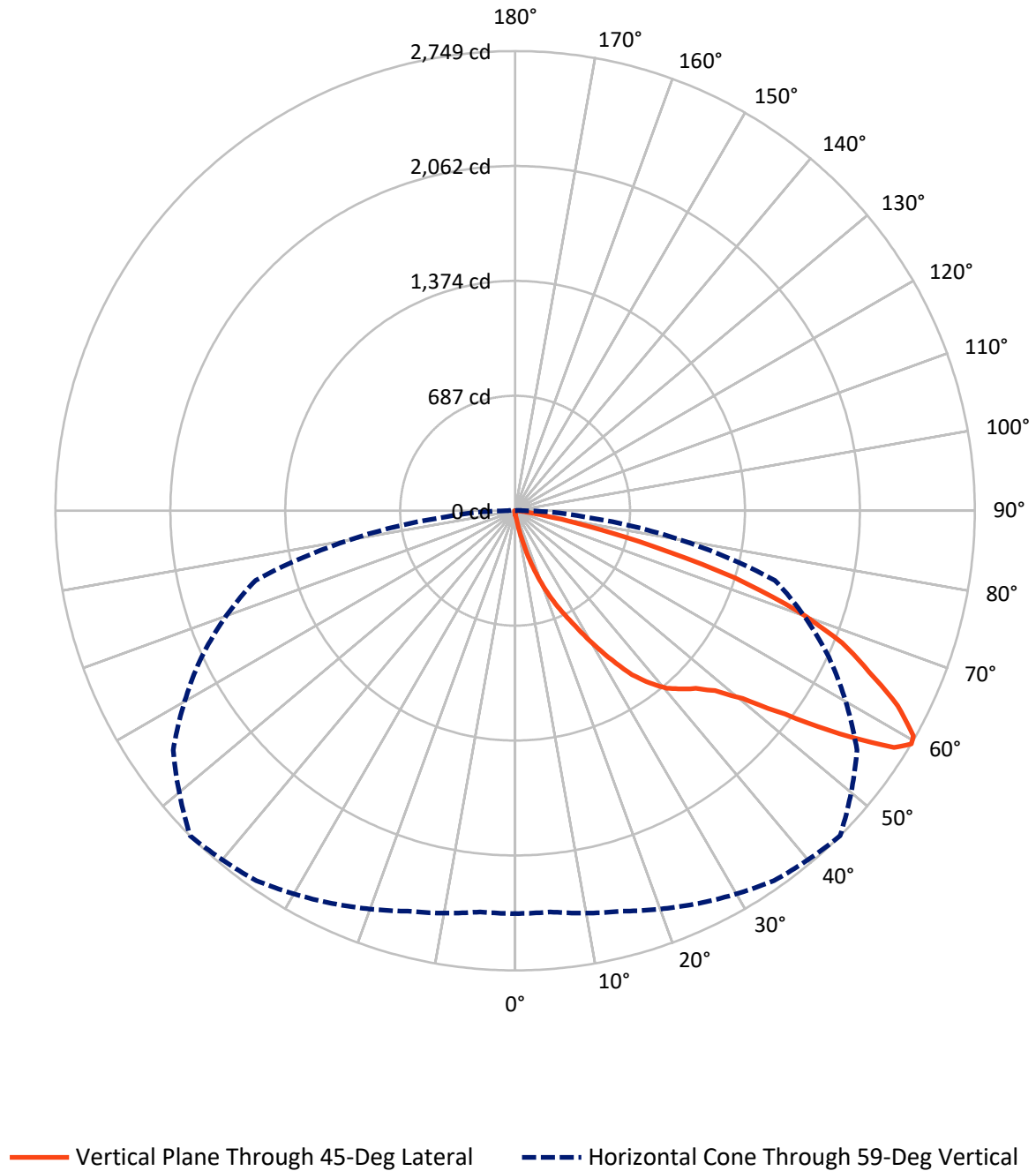


Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

REPORT NUMBER: P1067125

CATALOG NUMBER: NAV-SA1A-835-U-T3BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067125

CATALOG NUMBER: NAV-SA1A-835-U-T3BC

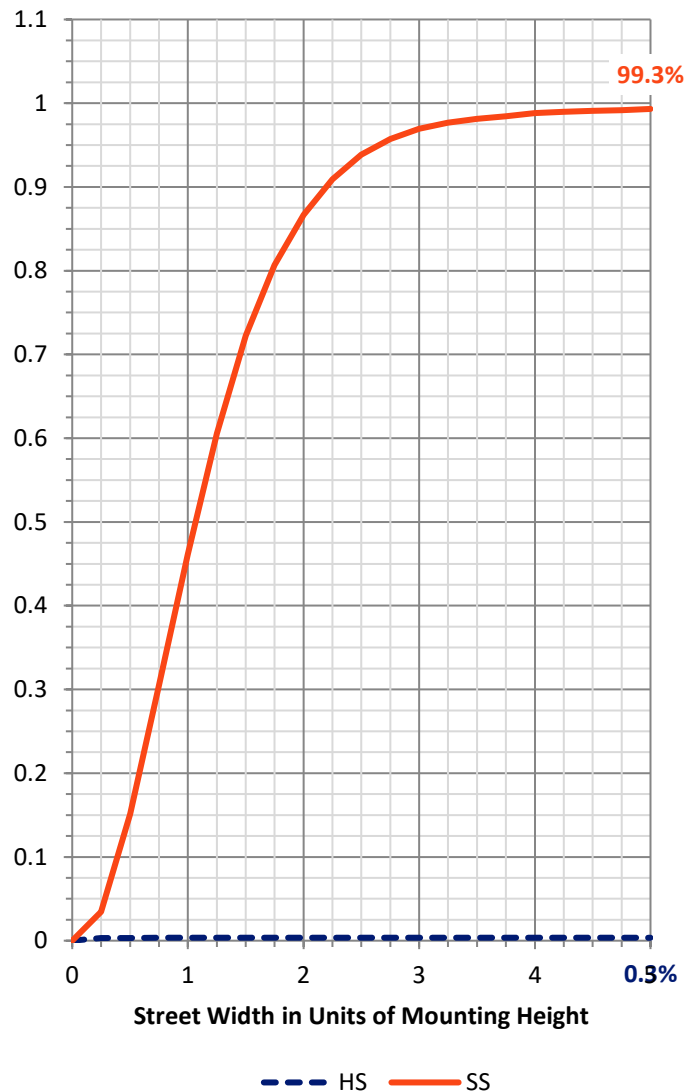
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12.0	0.0	12.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	3368.0	0.0	3368.0
	% Fixture	99.6	0.0	99.6
Total	Lumens	3380.0	0.0	3380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	37.4	1.1
20°-30°	134.2	4.0
30°-40°	311.9	9.2
40°-50°	531.7	15.7
50°-60°	876.0	25.9
60°-70°	1012.9	30.0
70°-80°	435.2	12.9
80°-90°	37.6	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°	3380.0	100.0
0°-180°	3380.0	100.0



REPORT NUMBER: P1067125

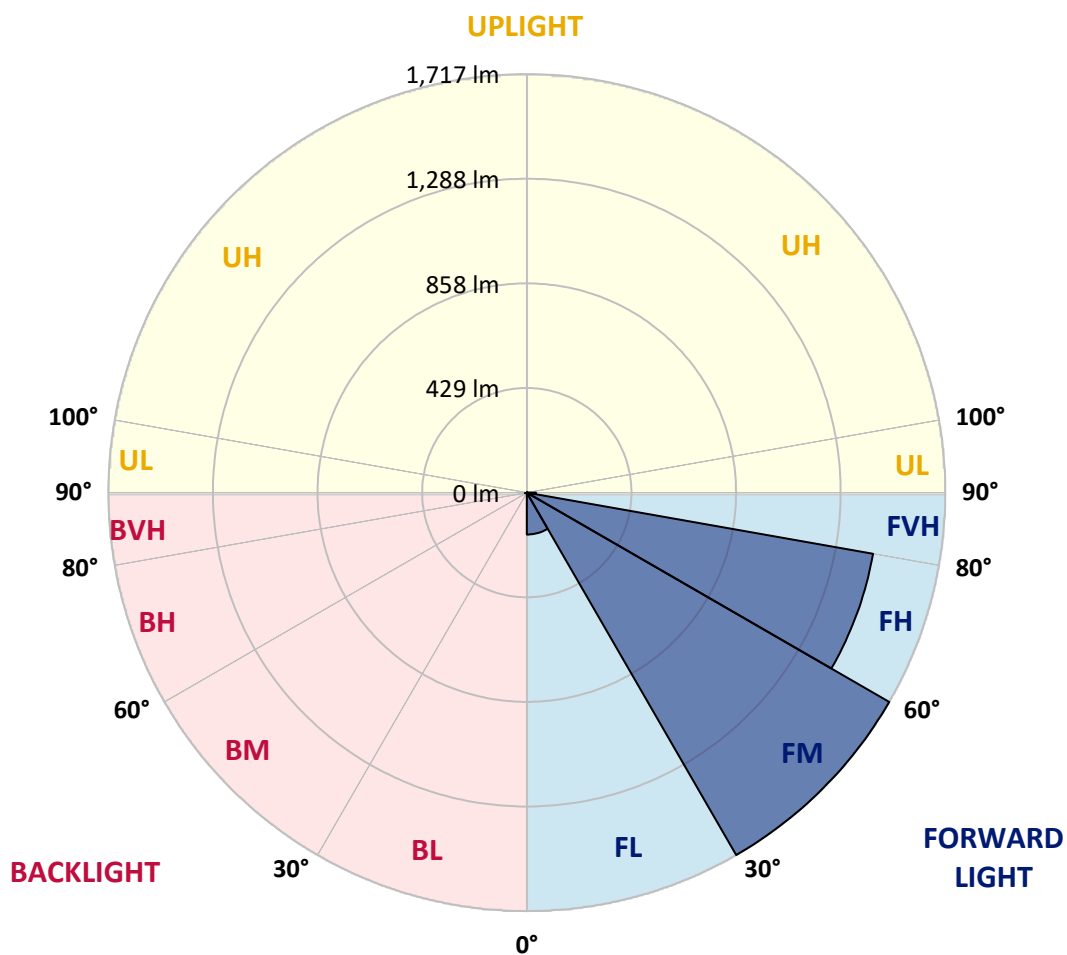
CATALOG NUMBER: NAV-SA1A-835-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.8	5.1			
FM	(30°-60°)	1716.7	50.8			
FH	(60°-80°)	1442.4	42.7			G1/1800
FVH	(80°-90°)	37.1	1.1			G1/100
BL	(0°-30°)	3.0	0.1	B0/110		
BM	(30°-60°)	2.9	0.1	B0/220		
BH	(60°-80°)	5.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type III Short



REPORT NUMBER: P1067125

CATALOG NUMBER: NAV-SA1A-835-U-T3BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
2.5°	27.7	27.7	27.0	26.1	25.9	25.2	25.2	24.5	23.6	23.0	22.0
5°	40.2	40.0	38.2	35.9	33.0	31.1	31.1	28.6	26.4	24.3	22.5
7.5°	88.0	85.9	79.3	68.4	54.1	44.5	43.9	35.7	30.2	26.1	22.7
10°	201.8	194.8	185.5	159.3	117.7	82.3	80.7	52.0	36.1	28.2	23.2
12.5°	330.7	336.4	317.7	276.6	228.0	169.5	158.2	87.7	47.7	30.9	23.6
15°	447.9	446.6	436.1	402.5	346.4	268.6	261.6	152.5	68.4	35.2	24.1
17.5°	535.7	534.1	524.1	502.5	459.3	381.6	375.4	243.2	107.3	41.4	24.5
20°	628.2	626.1	612.0	594.8	557.0	490.9	483.6	344.5	168.0	51.4	24.5
22.5°	739.1	735.2	720.2	690.9	651.1	593.6	587.0	448.2	243.2	67.7	25.7
25°	873.2	866.6	845.9	819.5	771.6	695.2	688.2	563.6	333.9	92.5	26.8
27.5°	1026.1	1027.3	999.3	954.8	890.4	812.5	799.3	667.0	427.7	128.0	28.2
30°	1207.7	1196.3	1157.0	1105.2	1042.7	943.4	930.7	770.0	533.2	180.2	30.5
32.5°	1377.7	1365.4	1312.5	1247.3	1180.2	1075.4	1065.0	885.7	629.1	242.0	34.5
35°	1523.6	1515.0	1440.9	1361.3	1301.8	1208.2	1205.0	1014.8	741.8	308.6	39.1
37.5°	1652.0	1636.3	1541.1	1458.6	1398.2	1314.3	1307.5	1132.9	850.4	385.9	45.9
40°	1761.6	1752.9	1636.8	1528.4	1479.3	1404.3	1395.7	1236.6	962.7	475.7	54.3
42.5°	1878.8	1867.5	1754.8	1633.2	1542.7	1462.5	1456.8	1322.0	1062.7	574.3	66.8
45°	2011.3	1990.2	1891.3	1782.3	1644.8	1522.7	1516.3	1398.2	1165.2	680.2	82.0
47.5°	2152.9	2134.5	2054.5	1977.9	1819.8	1622.0	1608.4	1462.9	1267.0	802.5	101.4
50°	2297.0	2297.5	2237.5	2200.7	2033.6	1783.4	1764.1	1558.2	1374.1	933.4	130.0
52.5°	2464.7	2469.1	2468.2	2440.9	2311.3	2047.2	2021.3	1702.7	1498.4	1086.1	169.5
55°	2535.0	2542.7	2592.9	2653.4	2618.1	2381.8	2354.1	1952.0	1663.2	1256.3	228.2
57.5°	2477.5	2486.1	2555.4	2661.3	2742.2	2674.7	2671.6	2276.6	1880.2	1462.7	324.1
59°	2409.1	2407.9	2479.1	2591.3	2700.4	2744.3	2748.8	2496.1	2069.3	1607.5	406.8
60°	2363.6	2364.5	2411.8	2527.0	2642.9	2719.1	2736.8	2625.4	2179.7	1711.6	477.7
62.5°	2188.2	2198.6	2236.1	2343.2	2453.2	2538.2	2568.4	2740.6	2495.9	1957.5	724.3
65°	1997.5	1998.2	2051.6	2143.2	2248.6	2308.4	2327.5	2561.3	2707.0	2207.9	1047.7
67.5°	1657.3	1671.1	1731.8	1880.2	2019.5	2095.2	2109.7	2229.5	2619.5	2371.1	1209.8
70°	1159.8	1177.9	1264.5	1457.0	1664.5	1788.8	1787.9	1853.4	2305.4	2298.4	1025.7
72.5°	579.1	610.4	681.1	887.3	1138.6	1333.8	1375.0	1490.9	1852.0	1909.1	765.2
75°	255.9	257.7	298.0	401.8	565.9	813.9	850.7	1183.4	1420.9	1326.8	552.7
77.5°	148.9	150.2	157.5	180.5	229.3	398.9	440.2	776.1	1004.1	771.1	360.5
80°	54.1	55.5	55.2	68.4	100.5	157.0	175.0	376.1	669.8	406.1	188.9
82.5°	33.2	33.2	32.0	32.3	36.6	60.2	65.9	160.2	326.1	200.0	54.1
85°	16.4	17.3	18.4	20.7	24.5	29.8	31.6	45.9	109.8	48.4	13.0
87.5°	9.8	10.0	10.9	13.2	16.4	21.4	22.7	31.1	39.3	32.5	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067125

CATALOG NUMBER: NAV-SA1A-835-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
2.5°	21.6	21.4	20.2	19.3	18.4	17.5	16.8	16.1	16.1	16.4	16.1
5°	21.6	20.7	18.9	17.3	15.9	14.8	13.6	12.7	12.5	12.5	12.7
7.5°	21.4	20.2	17.7	15.7	13.9	12.3	11.1	10.0	9.8	10.0	9.8
10°	21.1	19.8	16.8	14.3	11.8	10.2	8.6	7.5	7.5	7.5	7.7
12.5°	21.1	19.1	15.9	13.0	10.2	8.4	6.8	5.7	5.5	5.5	5.5
15°	20.9	18.6	15.0	11.4	8.6	6.4	5.0	3.9	3.9	3.9	3.9
17.5°	20.5	18.0	13.9	10.0	6.8	4.8	3.4	2.3	2.3	2.7	2.7
20°	20.0	17.3	12.5	8.2	5.7	3.6	2.3	1.4	1.4	2.0	2.3
22.5°	20.2	17.3	11.6	7.3	4.5	2.7	1.8	1.1	0.9	1.6	2.0
25°	20.5	16.8	10.5	6.4	3.4	2.0	1.4	0.5	0.2	0.5	0.7
27.5°	20.5	16.4	9.1	5.0	2.5	1.6	0.7	0.0	0.0	0.0	0.0
30°	20.2	15.7	8.0	4.1	1.8	0.9	0.2	0.0	0.0	0.0	0.0
32.5°	20.0	15.0	7.3	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
35°	20.2	14.1	6.4	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.5
37.5°	20.9	13.2	5.5	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	21.8	12.5	4.5	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	23.6	12.5	4.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	25.9	12.5	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	28.9	12.7	3.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	32.5	13.2	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	35.2	12.7	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	40.0	12.3	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	46.4	11.6	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	52.7	10.7	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	60.0	10.2	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	99.1	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	191.4	8.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	309.3	8.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	325.2	8.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	216.4	7.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	115.9	6.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	62.5	5.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.5	4.3	1.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	3.0	1.4	1.1	0.9	0.5	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.3	1.8	1.6	1.1	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.3	2.0	1.8	1.6	1.1	0.2	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

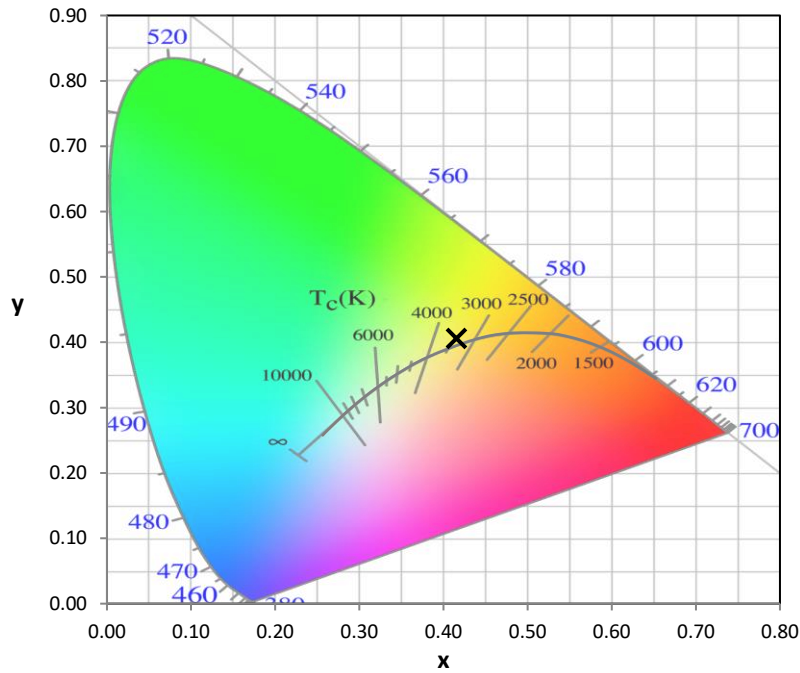
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

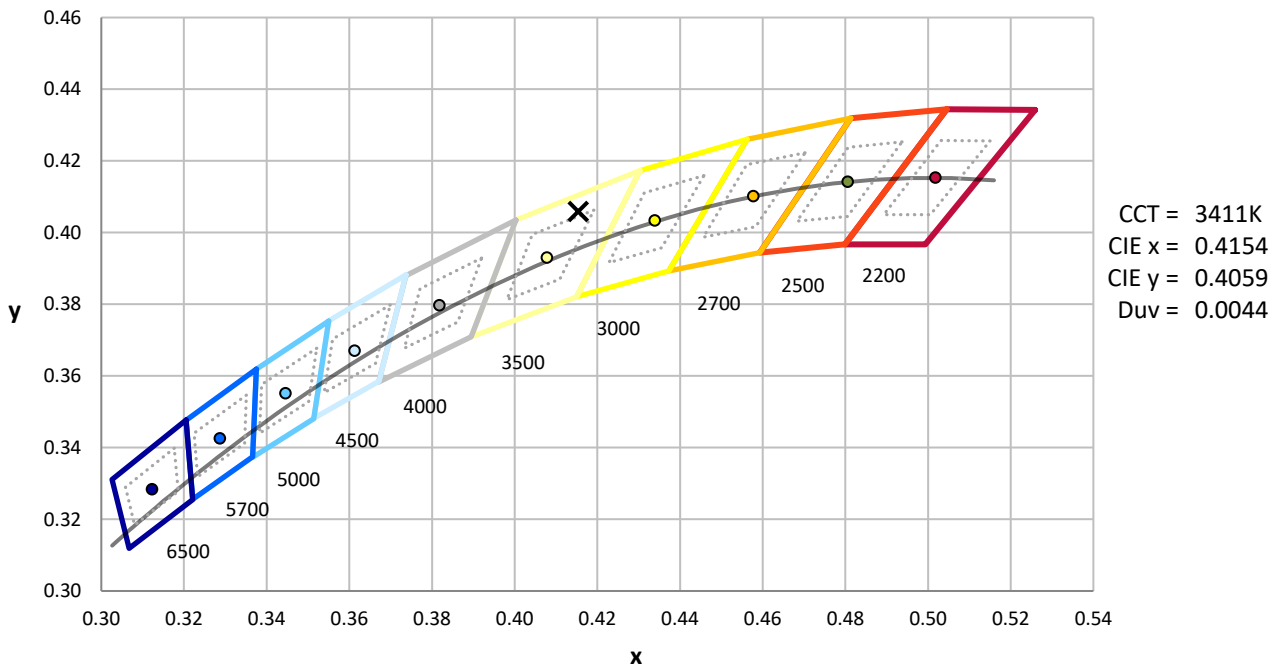
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



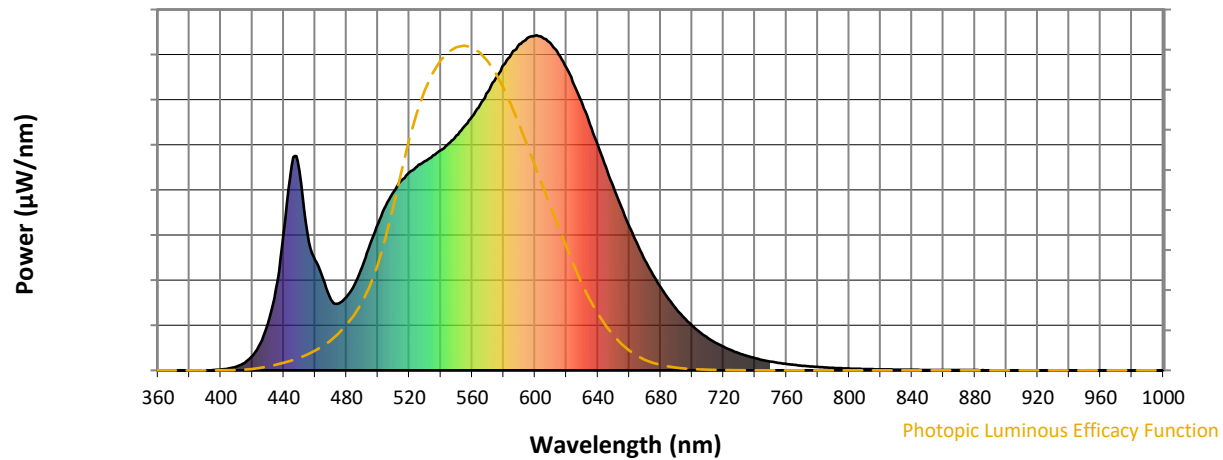
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

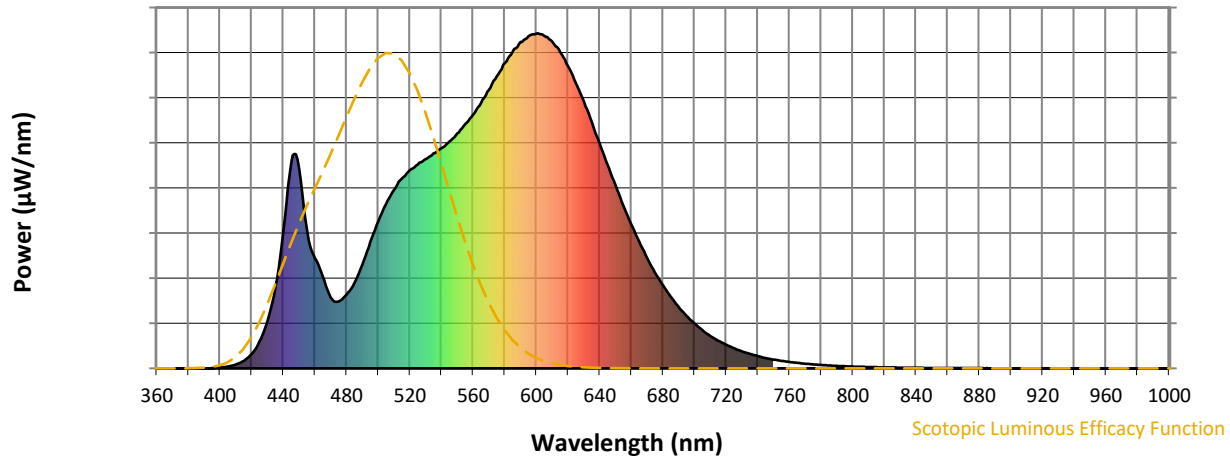


Photopic Lumens: NR

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	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			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



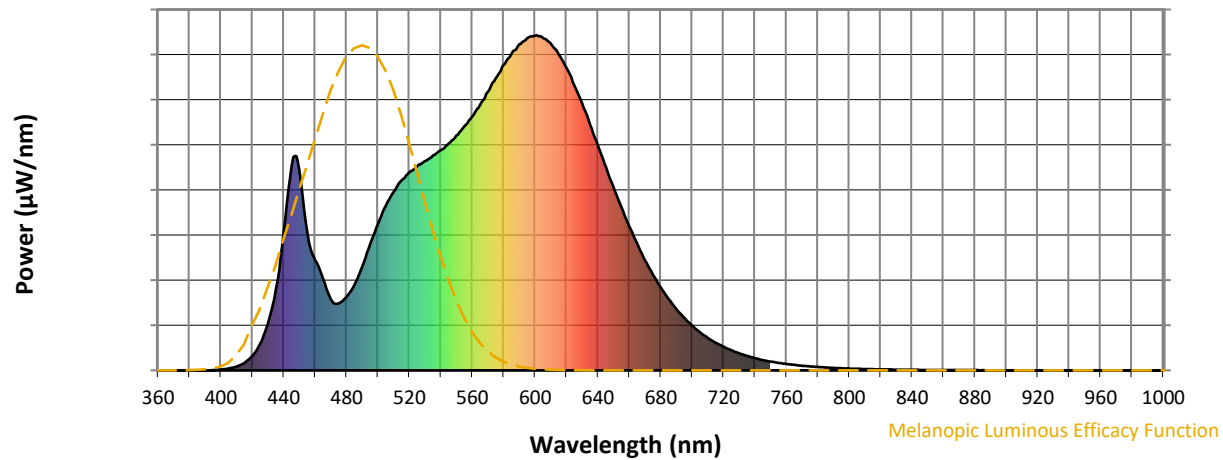
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

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			

REPORT NUMBER: SP1-2407-184-10

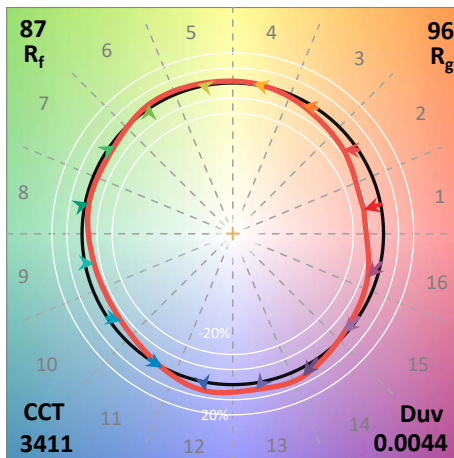
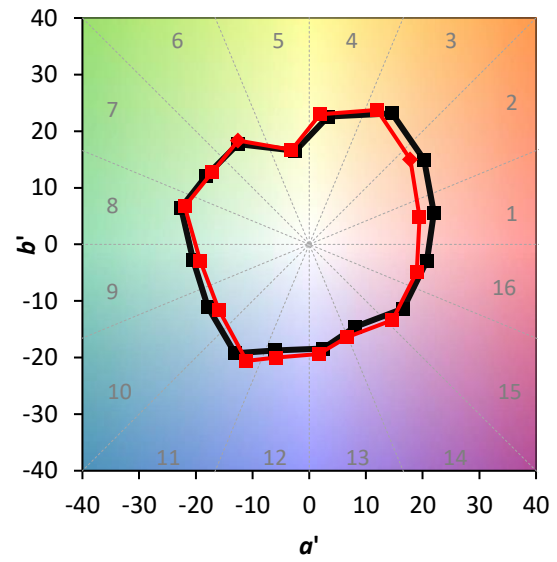
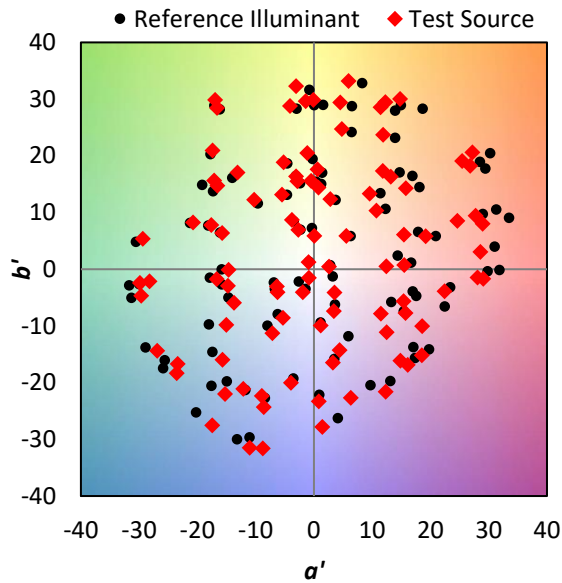
TM-30-18

Summary

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



Color Vector Graphics

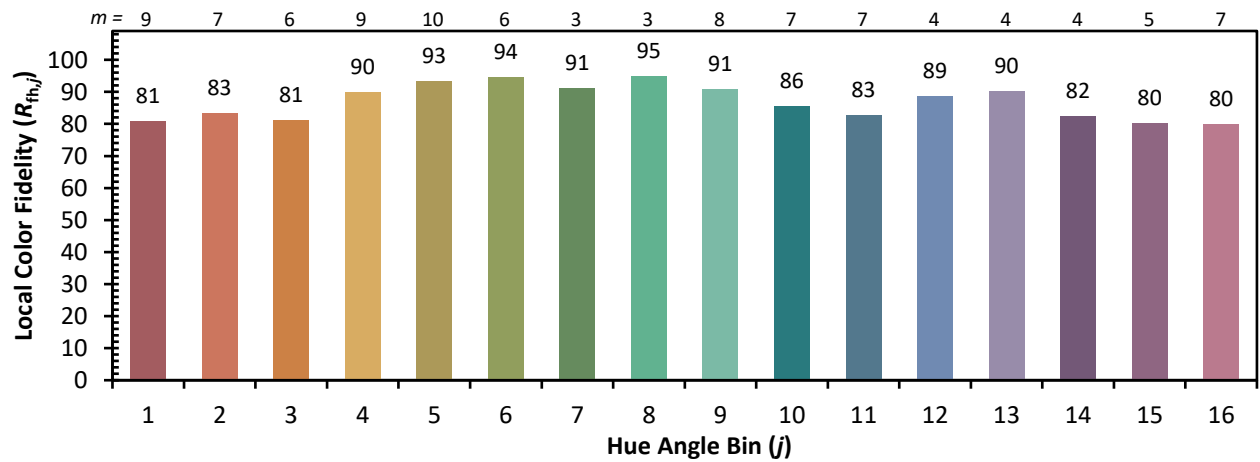
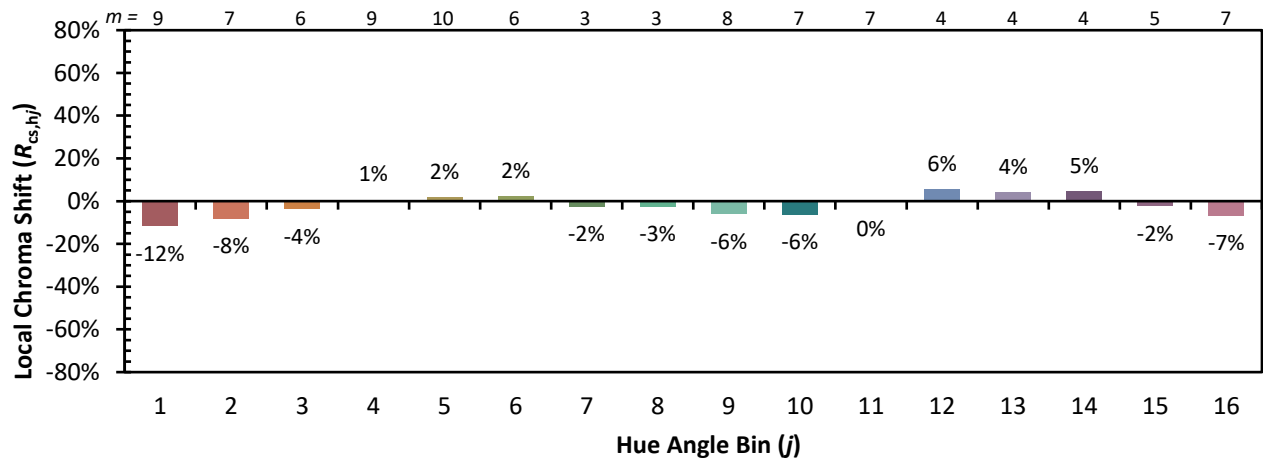


Individual Sample Fidelity Index ($R_{f,i}$)

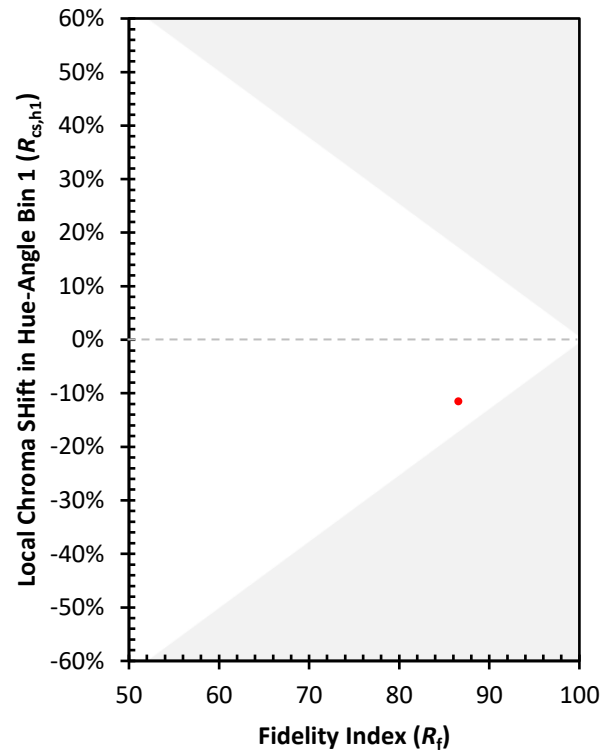
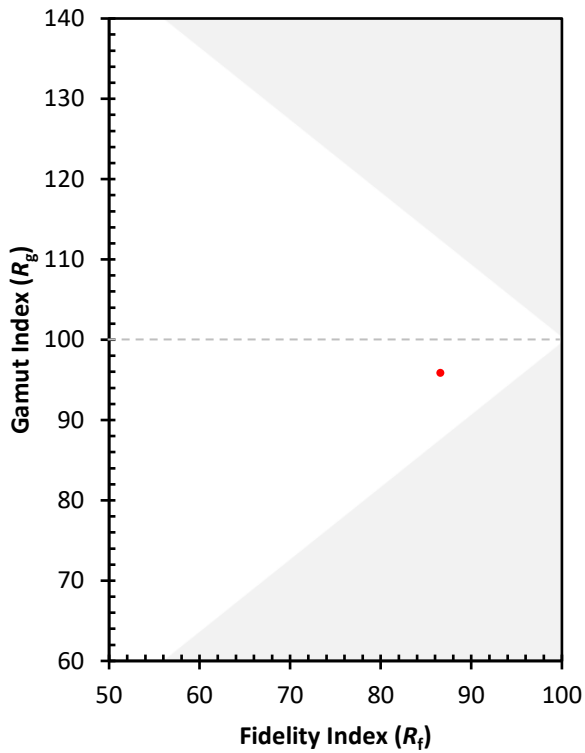
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 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)