

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: P1067349

Luminaire Tested: **NAV-SA3A-830-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067349
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-830-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8396.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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

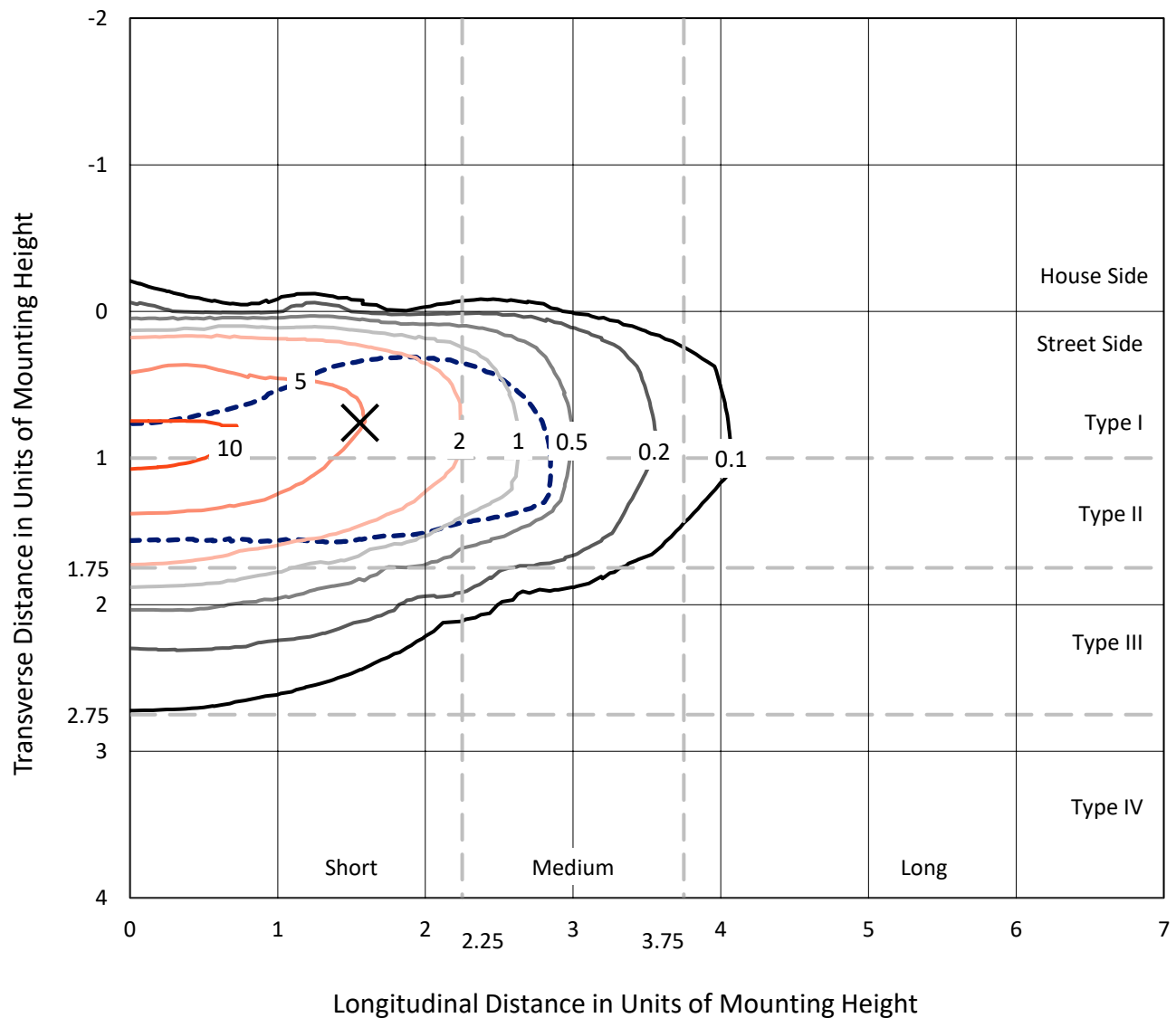


REPORT NUMBER: P1067349

CATALOG NUMBER: NAV-SA3A-830-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

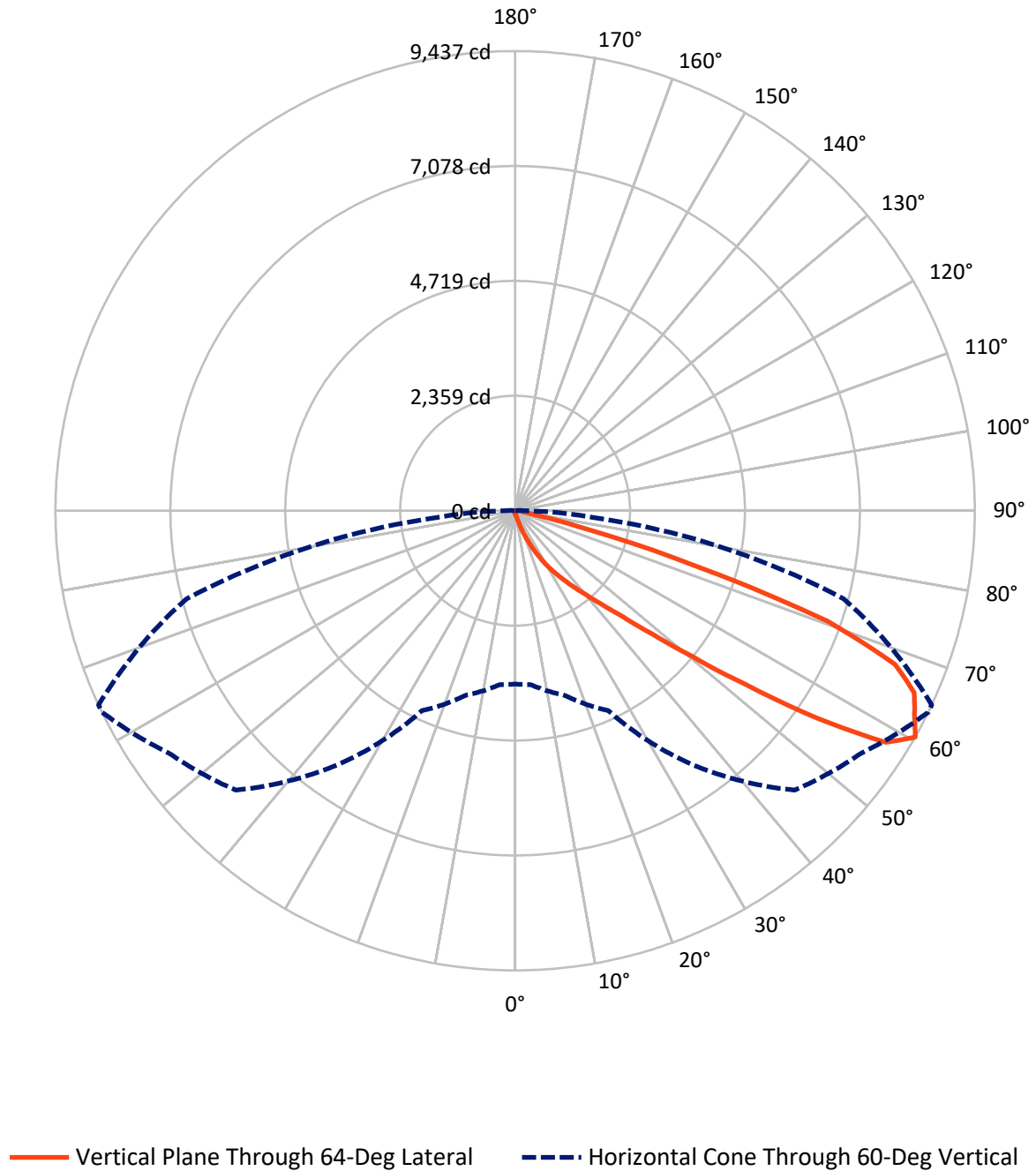


Based on 15 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

REPORT NUMBER: P1067349

CATALOG NUMBER: NAV-SA3A-830-U-T2BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067349

CATALOG NUMBER: NAV-SA3A-830-U-T2BC

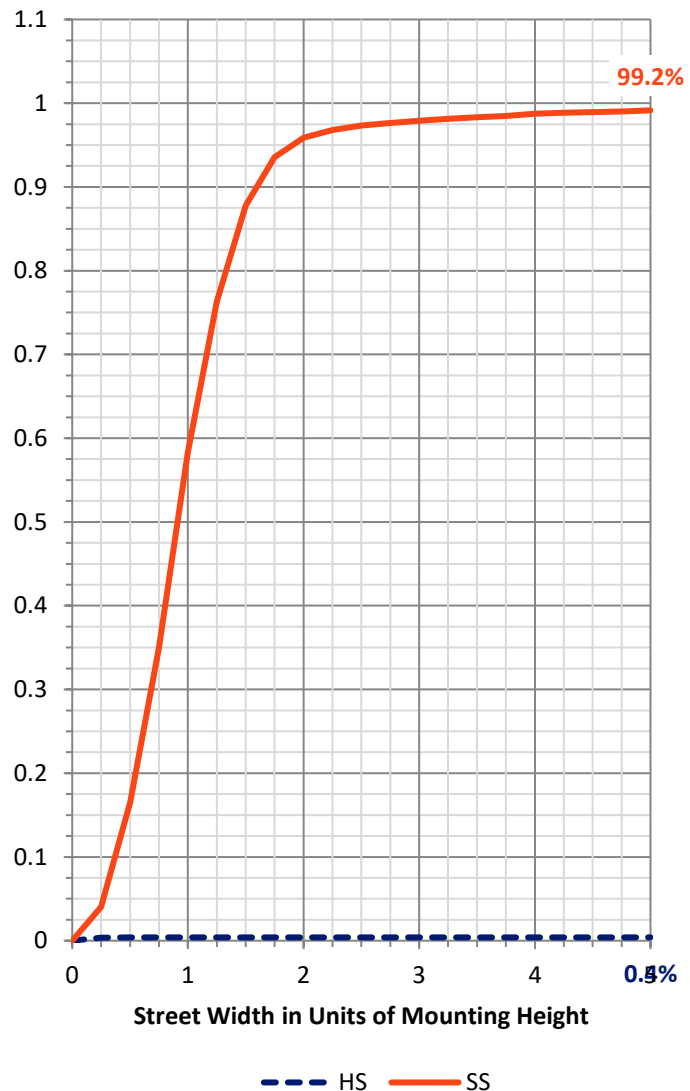
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.0	0.0	34.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	8362.9	0.0	8362.9
	% Fixture	99.6	0.0	99.6
Total	Lumens	8396.9	0.0	8396.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	82.5	1.0
20°-30°	274.0	3.3
30°-40°	731.3	8.7
40°-50°	1858.7	22.1
50°-60°	2709.6	32.3
60°-70°	2092.9	24.9
70°-80°	574.7	6.8
80°-90°	64.9	0.8
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°	8396.9	100.0
0°-180°	8396.9	100.0



REPORT NUMBER: P1067349

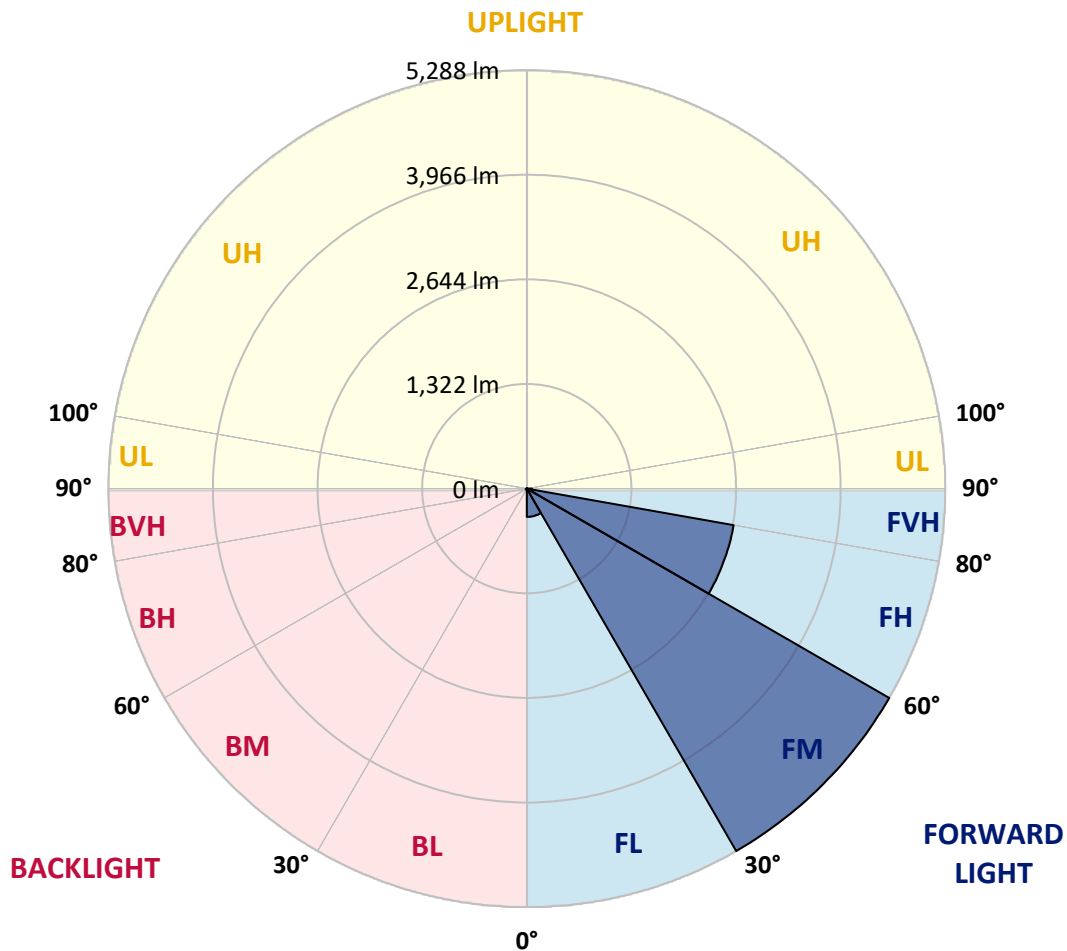
CATALOG NUMBER: NAV-SA3A-830-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.3	4.3			
FM	(30°-60°)	5288.2	63.0			
FH	(60°-80°)	2654.0	31.6			G2/5000
FVH	(80°-90°)	63.3	0.8			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	11.3	0.1	B0/220		
BH	(60°-80°)	13.6	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-G2

Type II Short



REPORT NUMBER: P1067349

CATALOG NUMBER: NAV-SA3A-830-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	74.0	74.0	74.0	71.7	69.3	69.3	67.0	64.7	64.7	60.1	57.8
5°	113.3	113.3	108.6	104.0	97.1	87.8	78.6	71.7	71.7	64.7	60.1
7.5°	221.9	228.8	208.0	182.6	147.9	124.8	99.4	83.2	80.9	69.3	60.1
10°	480.8	476.1	443.8	381.4	300.5	217.3	138.7	101.7	97.1	74.0	60.1
12.5°	723.5	730.4	695.7	626.4	529.3	386.0	238.1	131.7	127.1	80.9	60.1
15°	931.5	931.5	908.4	873.7	767.4	617.1	383.7	196.5	180.3	87.8	57.8
17.5°	1074.8	1072.5	1063.2	1054.0	991.6	836.7	587.1	314.3	277.4	104.0	57.8
20°	1236.6	1229.7	1241.2	1222.7	1174.2	1051.7	802.0	466.9	432.2	131.7	57.8
22.5°	1405.3	1412.2	1421.5	1403.0	1349.8	1243.5	1028.6	663.4	626.4	182.6	60.1
25°	1620.3	1615.7	1636.5	1620.3	1553.2	1428.4	1241.2	878.3	825.2	254.3	64.7
27.5°	1883.8	1874.5	1888.4	1846.8	1759.0	1631.8	1430.7	1097.9	1035.5	365.2	74.0
30°	2232.8	2239.7	2177.3	2128.8	2004.0	1835.2	1641.1	1333.7	1268.9	496.9	83.2
32.5°	2782.9	2734.4	2637.3	2440.8	2276.7	2061.7	1851.4	1539.4	1481.6	665.7	97.1
35°	3640.4	3649.7	3437.0	2951.6	2595.7	2346.0	2082.5	1765.9	1724.3	857.5	115.6
37.5°	4685.2	4659.7	4472.5	3860.0	3062.6	2699.7	2346.0	2013.2	1953.1	1065.5	138.7
40°	5868.6	5762.3	5653.6	5237.6	4035.7	3143.5	2678.9	2299.8	2253.6	1305.9	175.7
42.5°	6816.2	6788.5	6807.0	6633.6	5658.2	3899.3	3120.4	2651.1	2595.7	1604.1	240.4
45°	7283.1	7243.8	7354.8	7484.2	7234.6	5508.0	3832.3	3099.6	3025.6	1955.4	339.8
47.5°	7158.3	7130.6	7368.7	7622.9	7955.7	7373.3	4994.9	3769.9	3642.7	2406.1	487.7
50°	6543.5	6545.8	6936.4	7410.3	7937.3	8318.6	6716.9	4687.5	4528.0	3004.8	718.8
52.5°	5944.9	5963.3	6377.1	7068.2	7662.2	8429.6	8228.5	5924.1	5665.2	3709.8	991.6
55°	5330.0	5339.3	5704.5	6677.6	7532.8	8099.1	9005.1	7516.6	7241.5	4588.1	1257.4
57.5°	4738.3	4738.3	4874.7	5739.1	7391.8	8069.0	8912.7	8972.8	8748.6	5591.2	1453.9
60°	3559.5	3582.6	3922.4	4528.0	6374.8	8112.9	8676.9	9437.3	9437.3	6982.7	1604.1
62.5°	1798.2	1832.9	2255.9	2845.3	4373.1	7507.3	8713.9	9203.9	9240.9	8210.0	1946.2
65°	843.7	882.9	1109.5	1525.5	2353.0	5283.8	8330.2	9005.1	8993.6	7976.6	2667.3
67.5°	605.6	617.1	693.4	889.9	1266.6	2316.0	6358.6	8411.1	8415.7	6776.9	3067.2
70°	543.2	543.2	561.7	619.4	762.8	1035.5	3090.3	6811.6	7142.1	5233.0	2843.0
72.5°	536.2	531.6	527.0	529.3	515.4	520.1	1060.9	3846.1	4317.6	3661.2	2267.5
75°	522.4	522.4	517.7	501.6	411.4	335.1	365.2	1555.6	1798.2	2445.4	1682.7
77.5°	413.7	455.3	503.9	473.8	376.8	251.9	212.6	450.7	568.6	1500.1	1220.4
80°	191.8	194.2	191.8	201.1	240.4	180.3	157.2	219.6	221.9	832.1	755.8
82.5°	138.7	141.0	134.1	120.2	106.3	97.1	129.4	161.8	173.4	381.4	282.0
85°	41.6	39.3	46.2	62.4	74.0	85.5	108.6	136.4	143.3	141.0	41.6
87.5°	18.5	18.5	23.1	32.4	43.9	64.7	94.8	124.8	127.1	145.6	11.6
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: P1067349

CATALOG NUMBER: NAV-SA3A-830-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	57.8	55.5	53.2	50.9	48.5	46.2	43.9	43.9	46.2	46.2	46.2
5°	55.5	53.2	48.5	43.9	41.6	39.3	37.0	37.0	39.3	39.3	39.3
7.5°	55.5	50.9	46.2	41.6	37.0	34.7	32.4	32.4	32.4	34.7	34.7
10°	55.5	50.9	43.9	37.0	32.4	30.0	27.7	25.4	27.7	27.7	27.7
12.5°	53.2	48.5	41.6	34.7	27.7	23.1	20.8	20.8	20.8	20.8	20.8
15°	50.9	46.2	39.3	30.0	23.1	18.5	13.9	13.9	13.9	16.2	16.2
17.5°	48.5	43.9	34.7	23.1	16.2	11.6	9.2	9.2	9.2	11.6	11.6
20°	48.5	41.6	30.0	18.5	11.6	6.9	4.6	4.6	4.6	6.9	9.2
22.5°	48.5	41.6	27.7	13.9	6.9	4.6	2.3	2.3	2.3	2.3	2.3
25°	48.5	39.3	25.4	11.6	4.6	2.3	0.0	0.0	2.3	4.6	6.9
27.5°	48.5	37.0	20.8	6.9	4.6	2.3	0.0	2.3	4.6	4.6	4.6
30°	48.5	37.0	18.5	6.9	2.3	0.0	0.0	2.3	4.6	4.6	6.9
32.5°	50.9	34.7	16.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	53.2	32.4	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	57.8	32.4	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	64.7	34.7	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	80.9	37.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	113.3	46.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	166.4	69.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	242.7	94.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	298.2	94.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	295.9	60.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	226.5	41.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	191.8	30.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	231.1	23.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	411.4	20.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	661.1	20.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	739.6	20.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	577.8	18.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	316.7	16.2	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	159.5	11.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	67.0	9.2	4.6	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	23.1	9.2	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	11.6	6.9	6.9	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	6.9	6.9	6.9	4.6	4.6	2.3	2.3	0.0	0.0	0.0	2.3
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

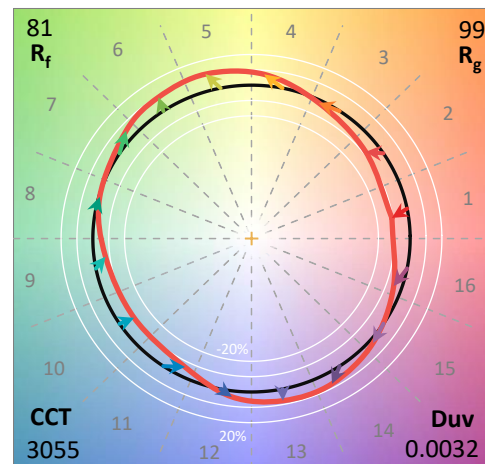
Test Information

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

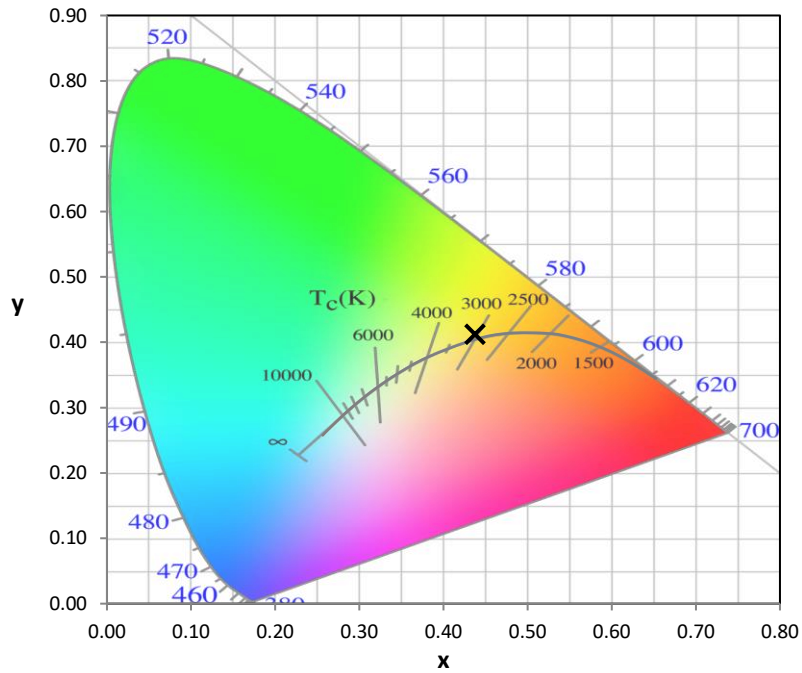
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

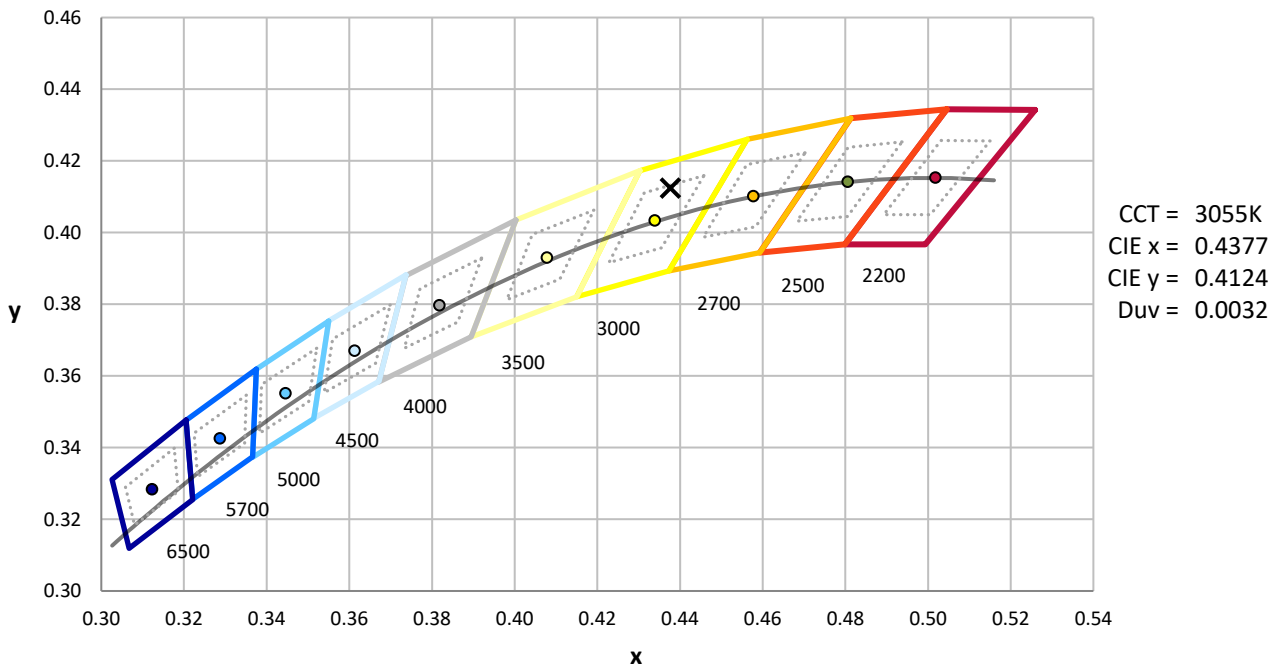
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

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

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

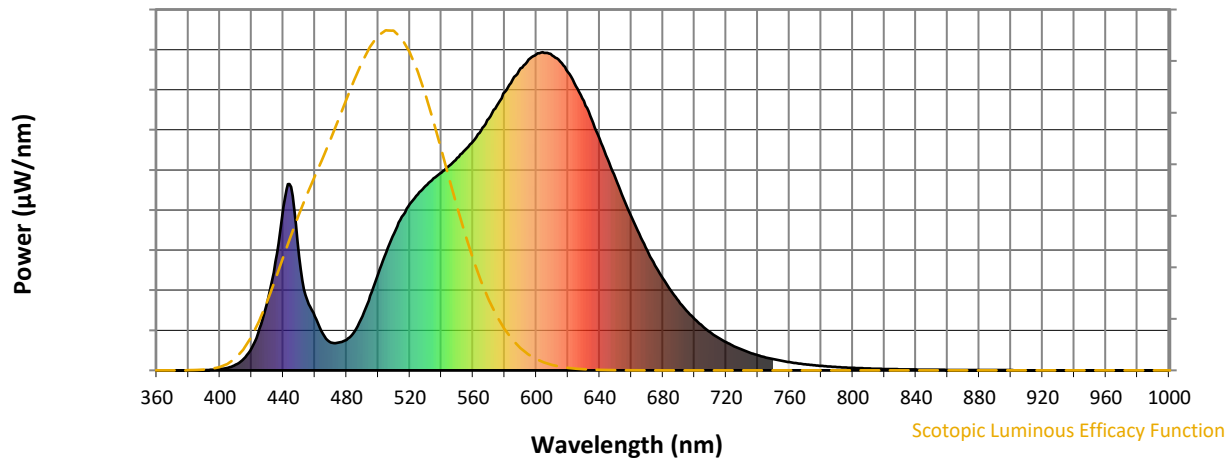


Photopic Lumens: NR

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	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			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



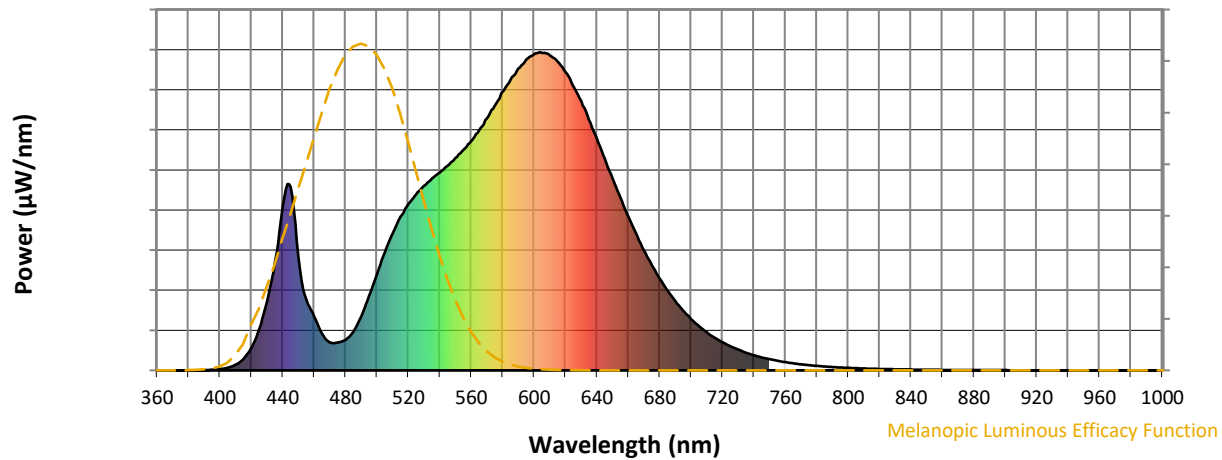
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

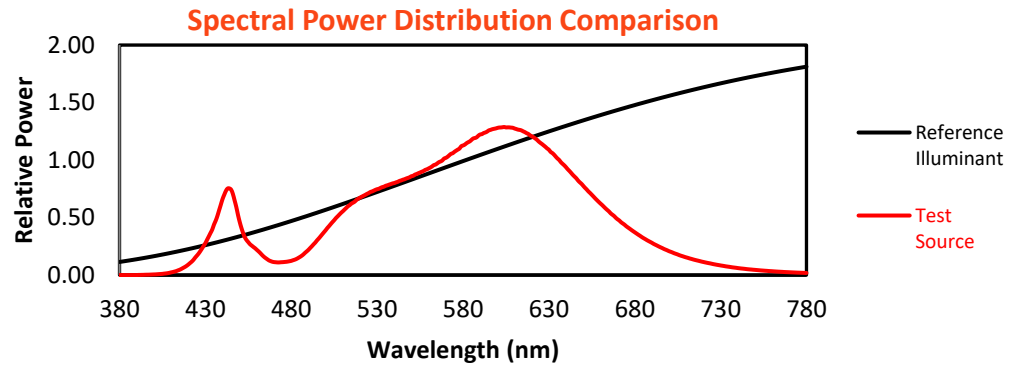
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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

REPORT NUMBER: SP1-2407-184-9

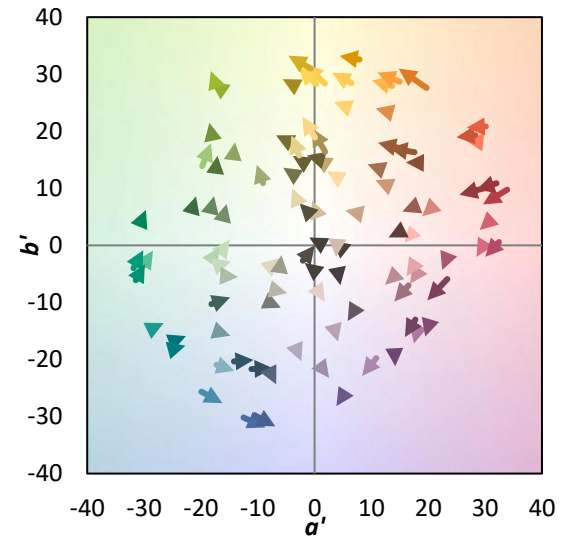
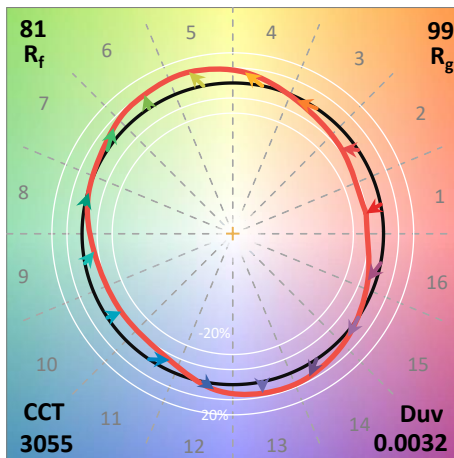
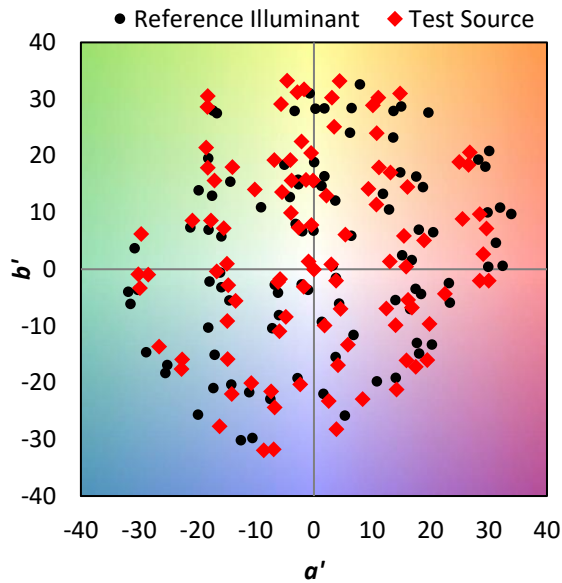
TM-30-18

Summary

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



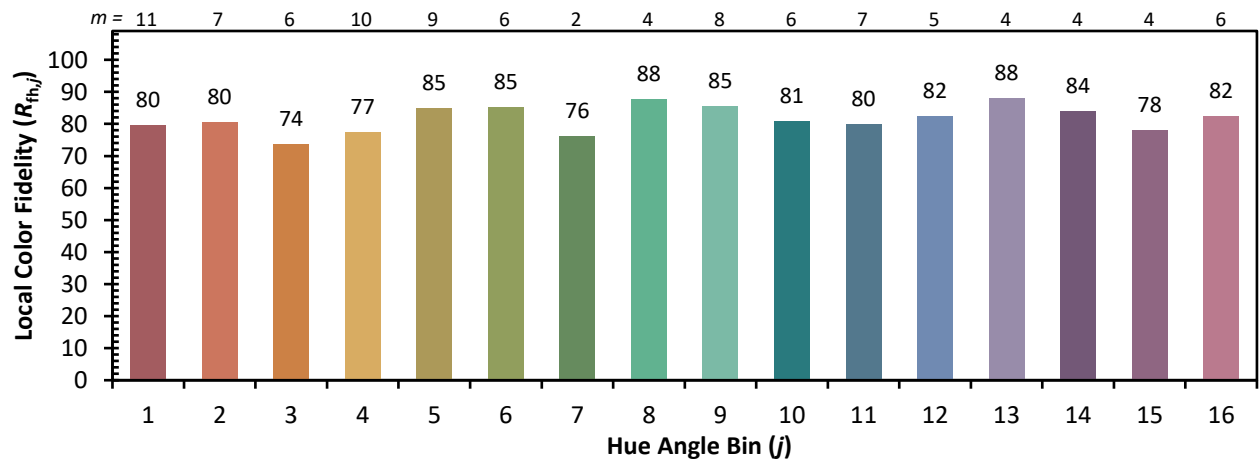
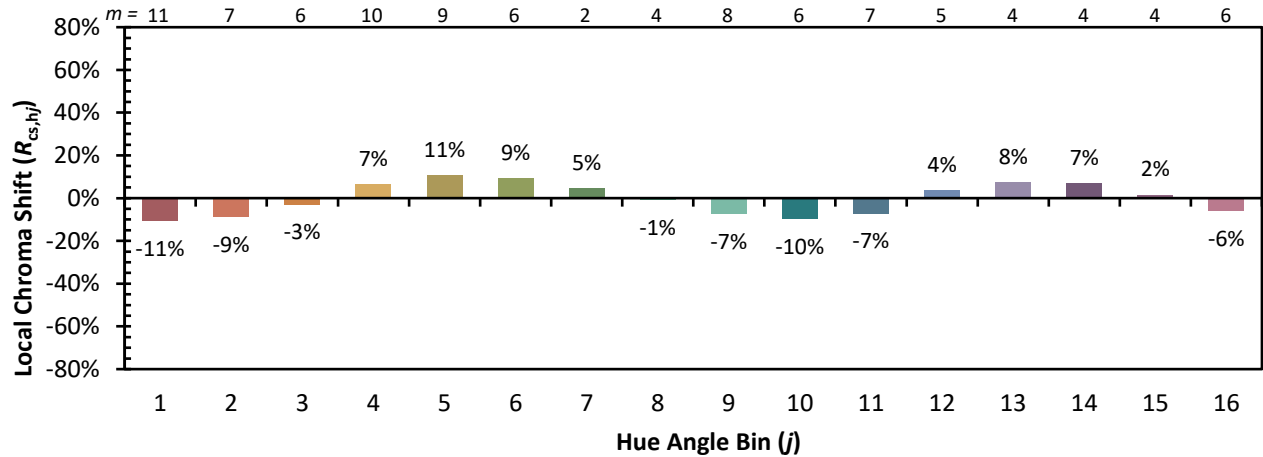
Color Vector Graphics



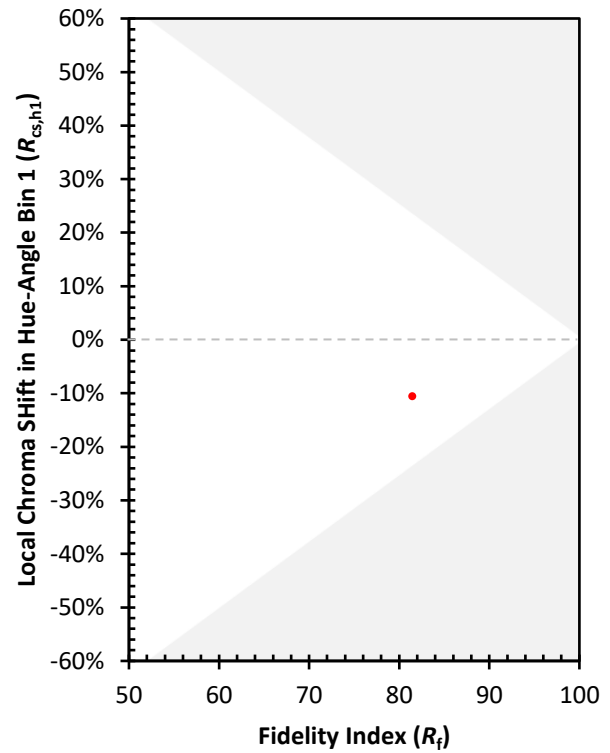
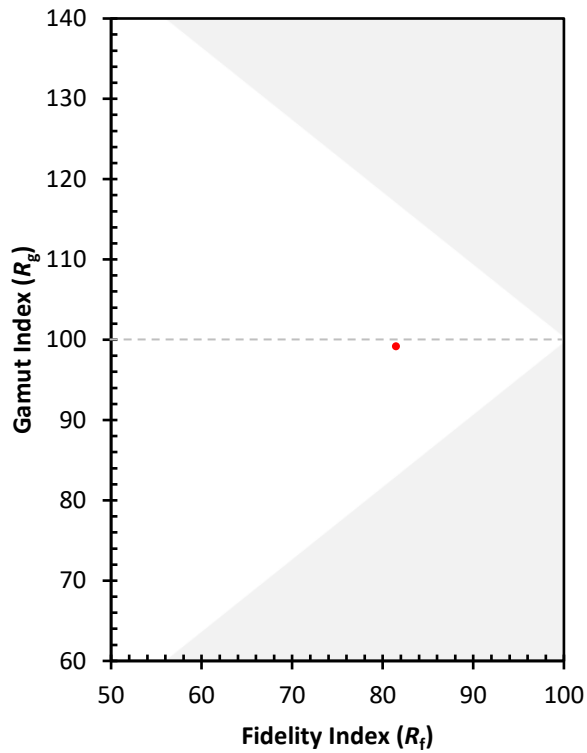
Individual Sample Fidelity Index ($R_{f,i}$)

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)