

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: P1067598

Luminaire Tested: **NAV-SA5B-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067598
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17624 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 178.8
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

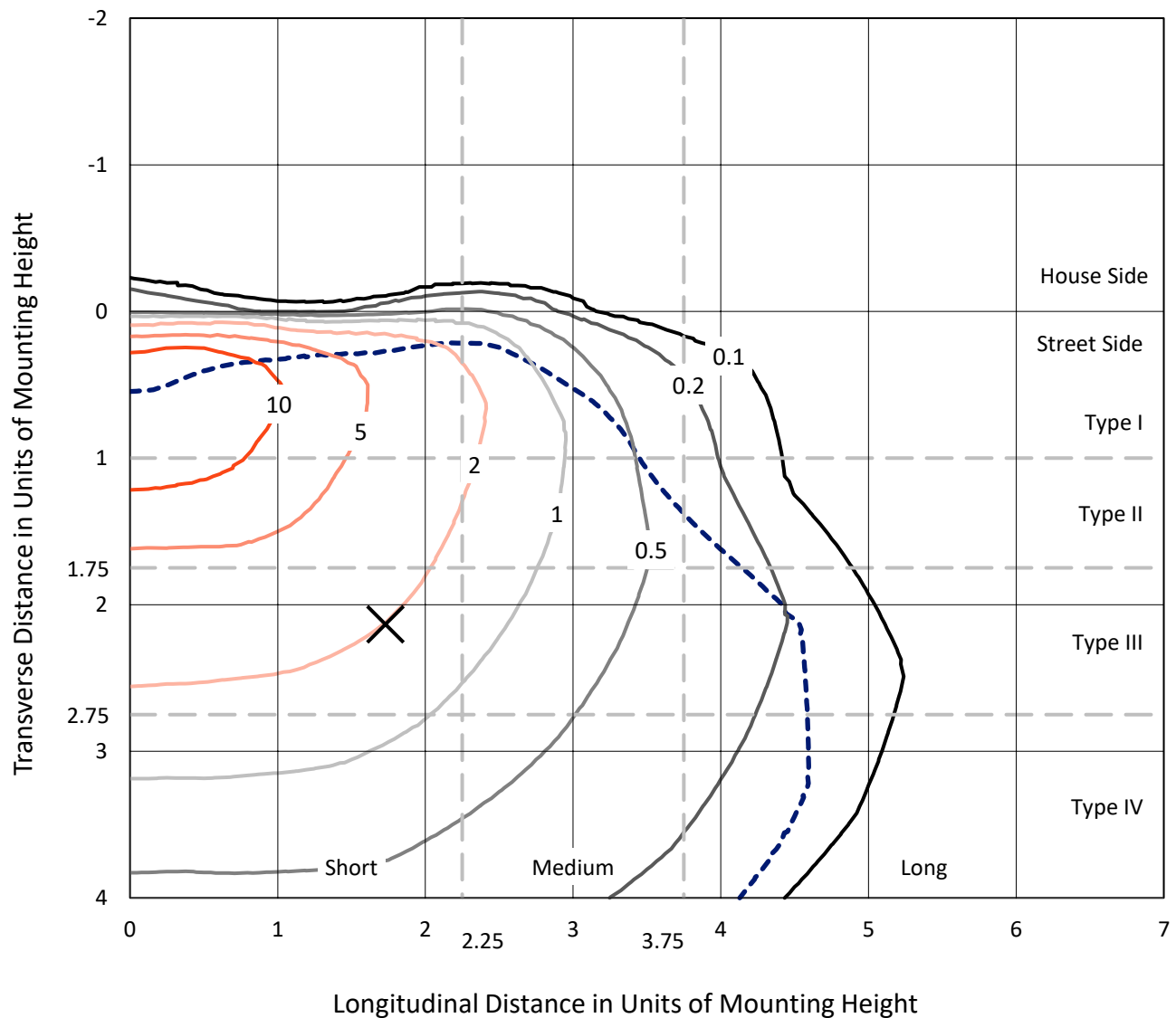


REPORT NUMBER: P1067598

CATALOG NUMBER: NAV-SA5B-830-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

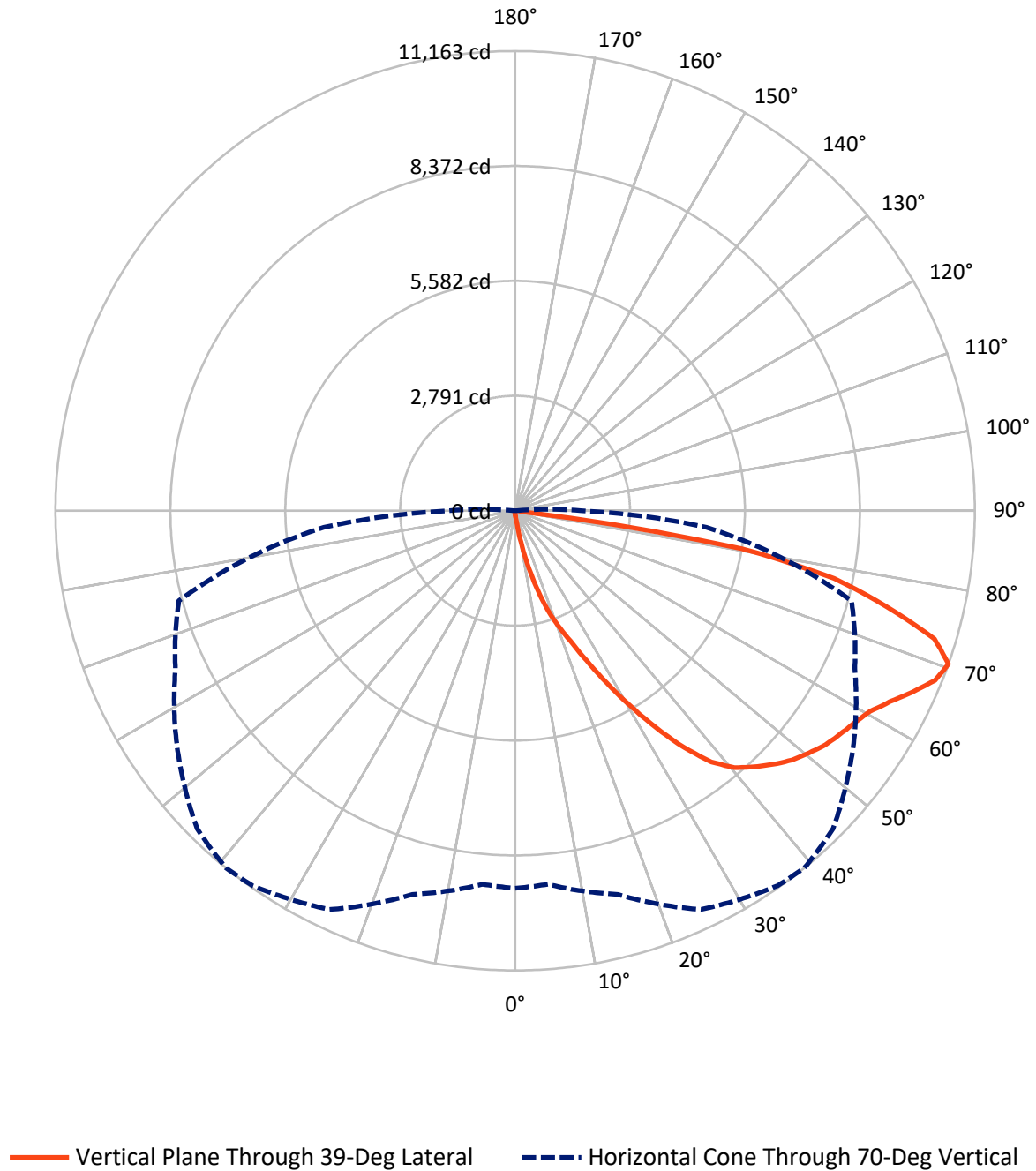


Based on 15 foot mounting height. Maximum calculated value = 19.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P1067598

CATALOG NUMBER: NAV-SA5B-830-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067598

CATALOG NUMBER: NAV-SA5B-830-U-T4BC

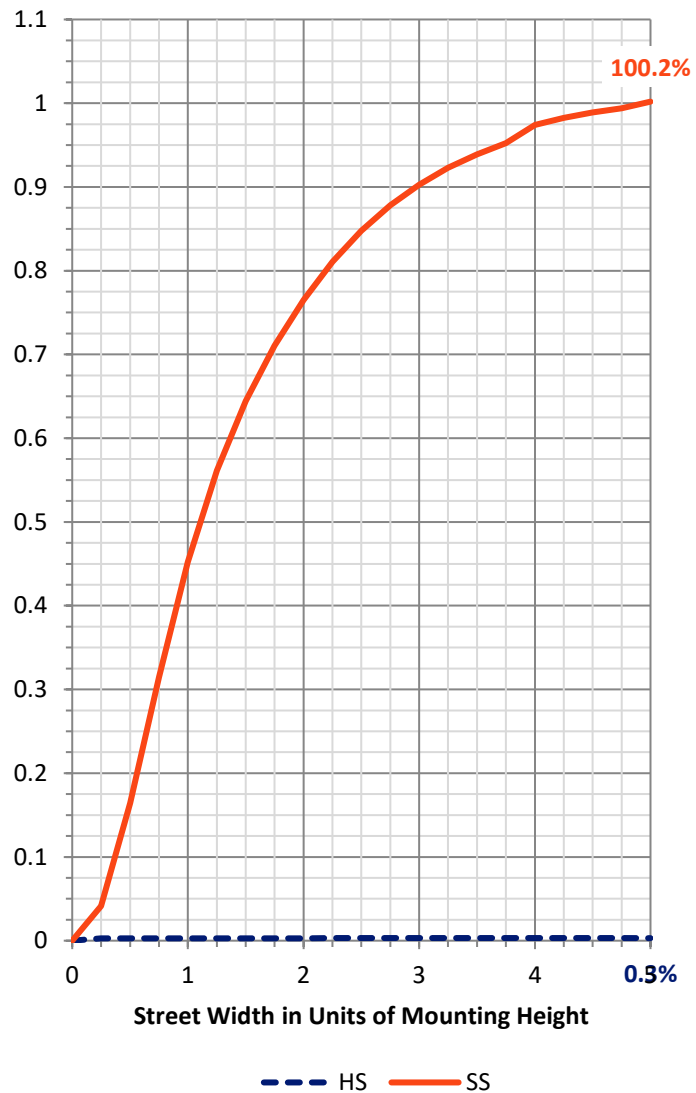
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54.3	0.0	54.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	17569.7	0.0	17569.7
	% Fixture	99.7	0.0	99.7
Total	Lumens	17624.0	0.0	17624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.1
10°-20°	216.7	1.2
20°-30°	735.2	4.2
30°-40°	1728.0	9.8
40°-50°	2805.9	15.9
50°-60°	3555.6	20.2
60°-70°	4516.5	25.6
70°-80°	3669.7	20.8
80°-90°	377.9	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°	17624.0	100.0
0°-180°	17624.0	100.0



REPORT NUMBER: P1067598

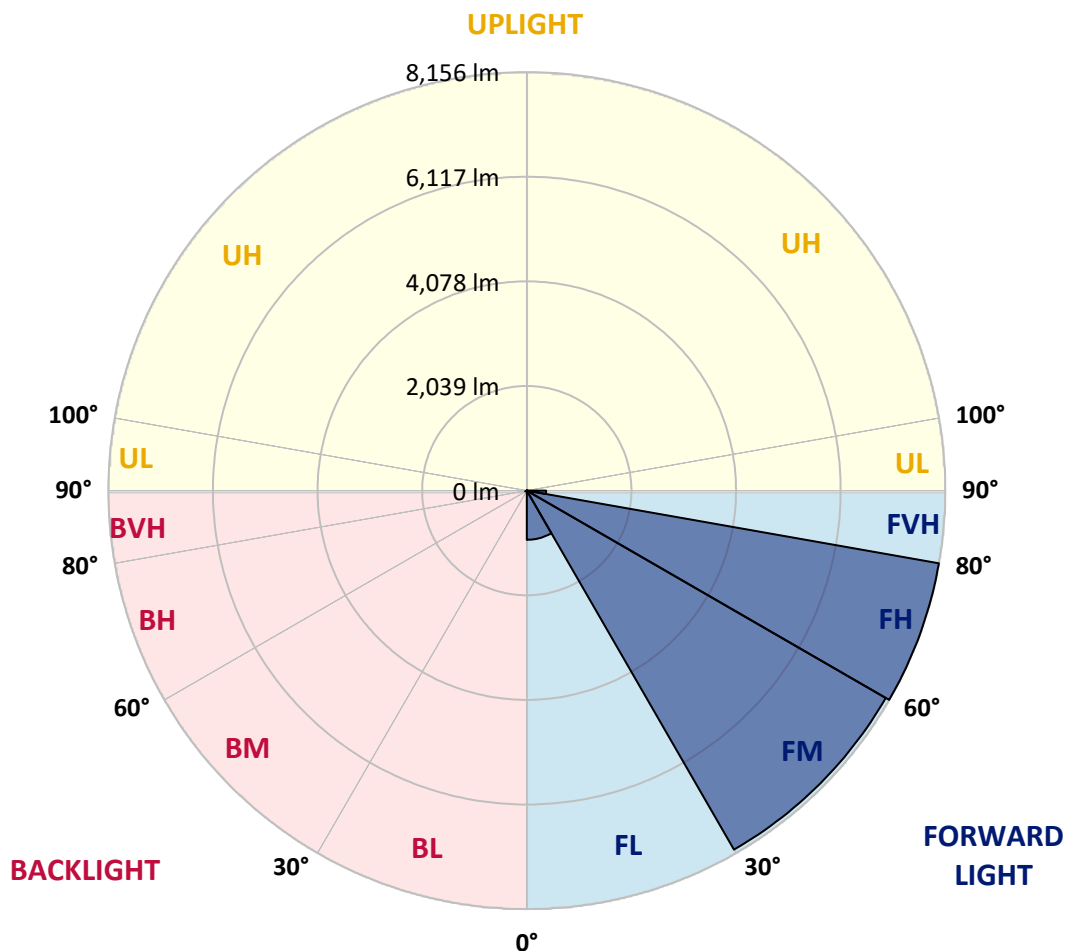
CATALOG NUMBER: NAV-SA5B-830-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.7	5.4			
FM	(30°-60°)	8079.0	45.8			
FH	(60°-80°)	8156.4	46.3			G4/12000
FVH	(80°-90°)	375.6	2.1			G3/500
BL	(0°-30°)	11.7	0.1	B0/110		
BM	(30°-60°)	10.4	0.1	B0/220		
BH	(60°-80°)	29.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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





REPORT NUMBER: P1067598

CATALOG NUMBER: NAV-SA5B-830-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
2.5°	124.4	124.4	124.4	119.6	119.6	114.8	114.8	110.1	105.3	105.3	100.5
5°	234.5	239.2	224.9	196.2	177.0	167.5	157.9	134.0	119.6	110.1	100.5
7.5°	641.2	622.0	593.3	497.6	382.8	325.4	277.5	196.2	143.5	114.8	100.5
10°	1349.3	1296.7	1215.4	1086.2	861.3	770.4	598.1	358.9	201.0	129.2	100.5
12.5°	1980.9	1990.5	1890.0	1765.6	1492.9	1339.8	1105.3	674.7	315.8	153.1	100.5
15°	2459.4	2449.8	2411.6	2311.1	2067.1	1918.7	1708.2	1134.0	531.1	191.4	105.3
17.5°	2837.4	2799.1	2784.8	2741.7	2583.8	2502.5	2272.8	1669.9	842.1	258.4	110.1
20°	3215.4	3205.8	3191.5	3143.6	3038.4	2981.0	2803.9	2210.6	1253.6	368.4	119.6
22.5°	3765.7	3713.0	3722.6	3617.3	3531.2	3430.7	3287.2	2784.8	1727.3	526.3	134.0
25°	4411.6	4406.8	4330.3	4282.4	4138.9	4028.8	3837.4	3339.8	2253.7	760.8	148.3
27.5°	5172.4	5119.8	5086.3	5004.9	4856.6	4732.2	4469.0	3890.1	2823.1	1024.0	167.5
30°	5966.7	5966.7	5904.5	5780.1	5636.5	5483.4	5215.5	4469.0	3387.7	1358.9	191.4
32.5°	6895.0	6914.1	6761.0	6574.4	6387.8	6282.5	5933.2	5124.6	3928.4	1741.7	220.1
35°	7794.5	7770.6	7517.0	7311.2	7172.5	7057.6	6761.0	5842.3	4540.8	2186.7	258.4
37.5°	8655.8	8593.6	8172.5	7880.6	7818.4	7741.9	7445.2	6560.0	5148.5	2679.5	306.2
40°	9273.0	9177.3	8741.9	8340.0	8249.1	8206.0	7976.3	7210.8	5789.7	3229.8	368.4
42.5°	9541.0	9430.9	9129.5	8804.1	8603.2	8502.7	8301.7	7741.9	6430.8	3842.2	459.3
45°	9593.6	9507.5	9292.2	9215.6	8942.9	8789.8	8517.0	8119.9	7028.9	4449.9	583.8
47.5°	9402.2	9363.9	9234.8	9397.4	9258.7	9048.1	8718.0	8402.2	7560.1	5186.8	756.0
50°	8933.3	8904.6	8966.8	9392.7	9488.3	9249.1	8938.1	8622.3	8019.4	5947.6	1000.0
52.5°	8301.7	8296.9	8588.8	9268.2	9588.8	9440.5	9153.4	8842.4	8383.0	6684.4	1344.5
55°	7612.7	7694.0	8206.0	9153.4	9646.2	9579.3	9363.9	9038.6	8708.4	7368.7	1899.6
57.5°	7555.3	7521.8	8014.6	9105.6	9679.7	9718.0	9574.5	9244.3	8985.9	7928.5	2641.2
60°	8129.5	8052.9	8239.5	9206.0	9828.1	9895.1	9785.0	9402.2	9263.5	8368.7	3617.3
62.5°	8794.5	8722.8	8818.5	9593.6	10119.9	10215.6	10076.9	9564.9	9488.3	8674.9	4665.2
65°	9325.7	9268.2	9450.1	10172.6	10526.7	10608.0	10512.3	9866.4	9588.8	8923.7	5516.9
67.5°	9411.8	9340.0	9718.0	10560.2	10938.2	10995.6	10919.0	10158.2	9555.3	8942.9	5713.1
70°	9167.8	9105.6	9646.2	10684.6	11115.2	11163.0	10919.0	10019.5	9100.8	8454.8	4670.0
72.5°	8416.5	8464.4	9163.0	10383.1	10871.2	10651.1	10134.3	9320.9	8512.2	7167.7	3277.6
75°	7249.0	7301.7	8229.9	9555.3	9593.6	9325.7	9048.1	8574.4	7617.5	4722.6	2272.8
77.5°	5153.3	4966.7	6354.3	7890.2	7751.4	7923.7	7947.6	7134.2	6378.2	2459.4	1521.6
80°	507.2	430.6	799.1	2263.2	5000.2	5588.7	5818.4	5497.8	4703.5	1100.5	799.1
82.5°	110.1	110.1	119.6	129.2	201.0	301.4	1382.8	3387.7	3038.4	559.8	258.4
85°	62.2	62.2	76.6	90.9	119.6	134.0	157.9	210.5	818.2	201.0	47.8
87.5°	47.8	52.6	62.2	76.6	100.5	110.1	134.0	167.5	205.7	186.6	14.4
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: P1067598

CATALOG NUMBER: NAV-SA5B-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
2.5°	100.5	95.7	90.9	86.1	81.3	81.3	76.6	76.6	76.6	76.6	76.6
5°	95.7	90.9	86.1	76.6	71.8	67.0	62.2	62.2	62.2	62.2	62.2
7.5°	95.7	90.9	81.3	71.8	62.2	57.4	52.6	47.8	47.8	52.6	52.6
10°	95.7	86.1	71.8	62.2	52.6	47.8	43.1	38.3	38.3	38.3	38.3
12.5°	90.9	81.3	67.0	57.4	47.8	38.3	28.7	23.9	23.9	23.9	23.9
15°	86.1	76.6	62.2	47.8	33.5	23.9	19.1	14.4	14.4	14.4	14.4
17.5°	86.1	71.8	57.4	43.1	23.9	14.4	9.6	4.8	4.8	4.8	9.6
20°	86.1	71.8	52.6	33.5	14.4	9.6	9.6	4.8	0.0	4.8	4.8
22.5°	86.1	67.0	43.1	23.9	14.4	9.6	4.8	0.0	0.0	0.0	0.0
25°	90.9	67.0	38.3	19.1	9.6	4.8	0.0	0.0	0.0	0.0	0.0
27.5°	90.9	62.2	33.5	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
30°	95.7	62.2	28.7	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	95.7	57.4	19.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	95.7	52.6	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	95.7	47.8	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	100.5	43.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	105.3	38.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	110.1	33.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	124.4	33.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	143.5	33.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	172.3	33.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	224.9	28.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	325.4	28.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	545.5	28.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	957.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1617.3	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2110.1	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1602.9	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	765.6	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	339.7	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	148.3	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.4	9.6	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	9.6	4.8	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0
85°	14.4	9.6	9.6	9.6	4.8	4.8	4.8	0.0	0.0	0.0	0.0
87.5°	9.6	9.6	9.6	9.6	9.6	4.8	4.8	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: SP1-2407-184-9

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

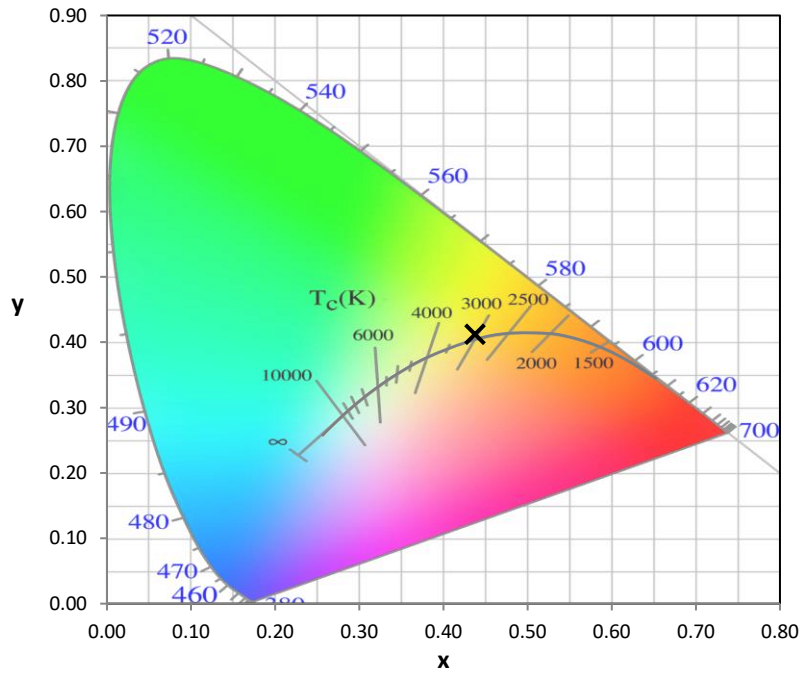
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

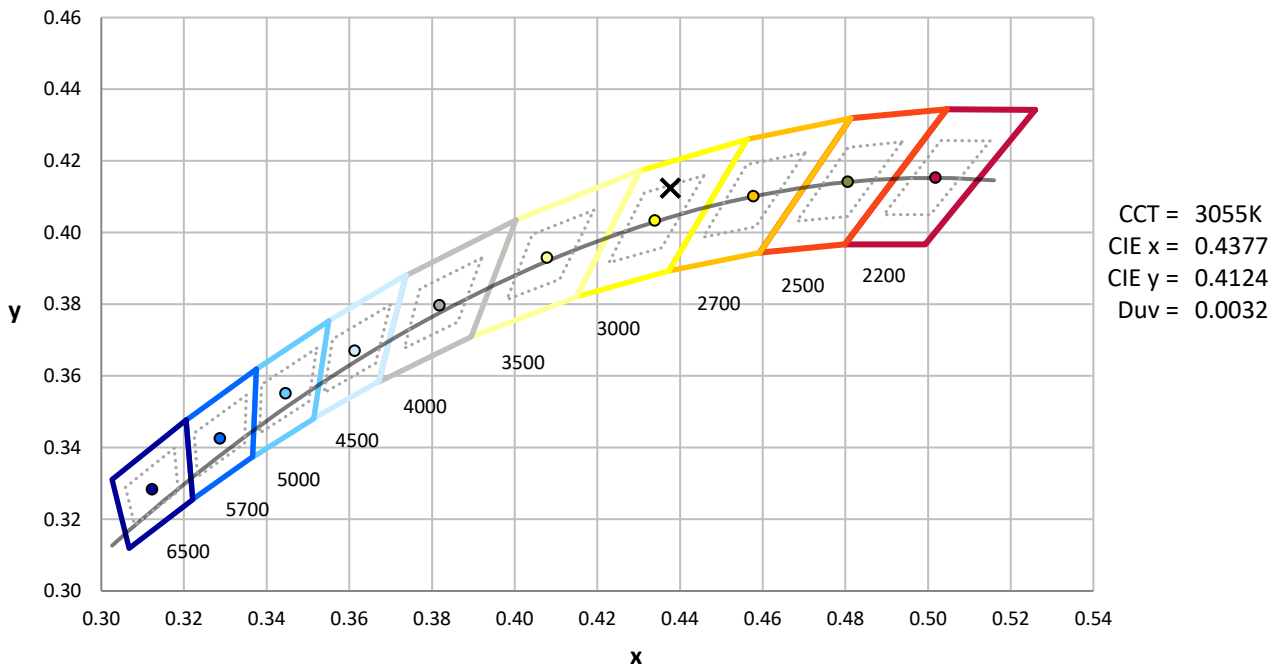
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



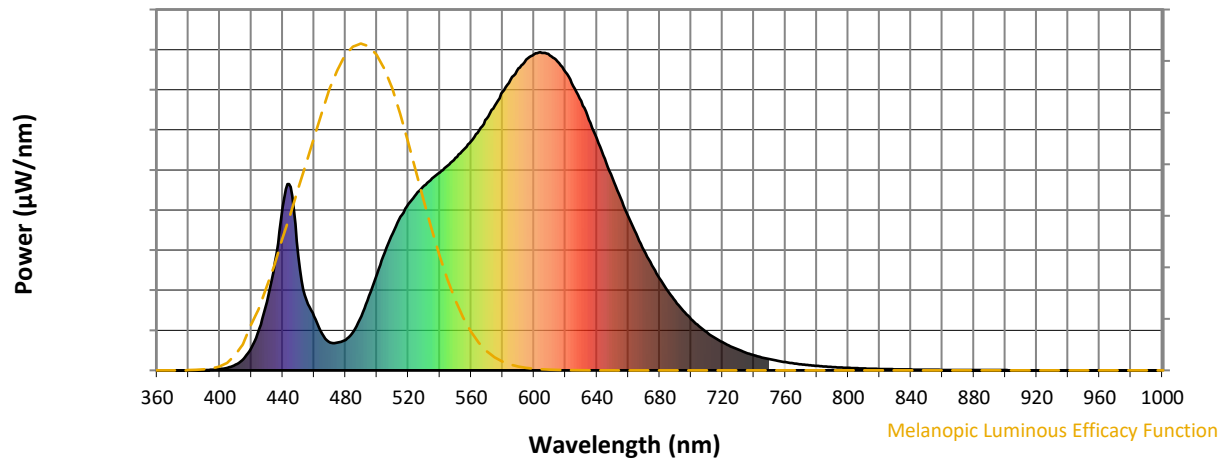
Scotopic Lumens: NR

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

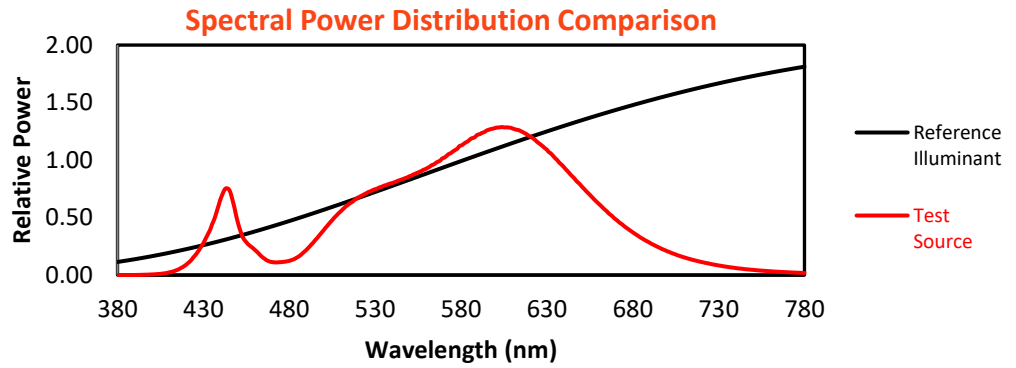
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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

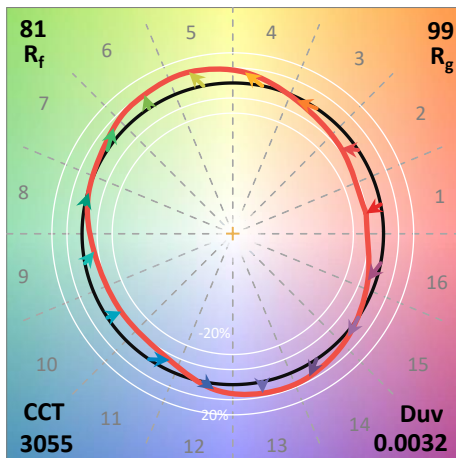
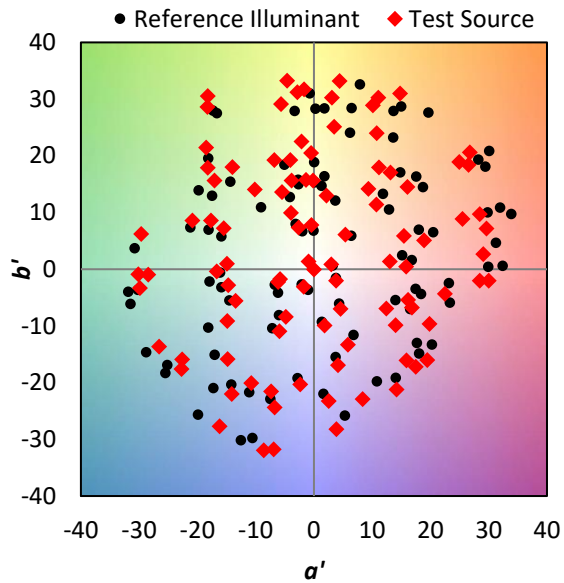
TM-30-18

Summary

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

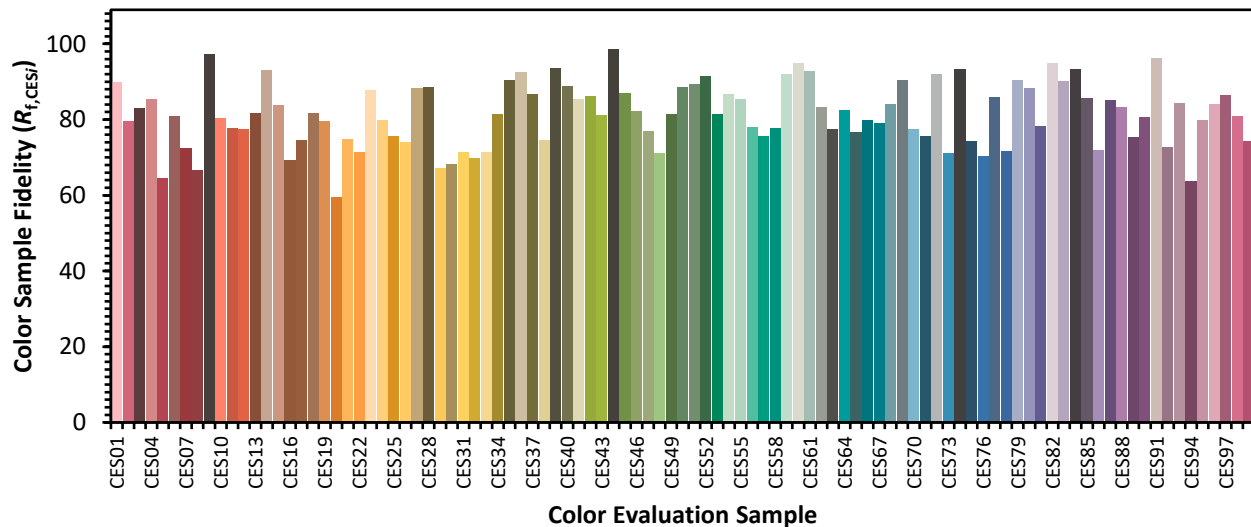


Color Vector Graphics

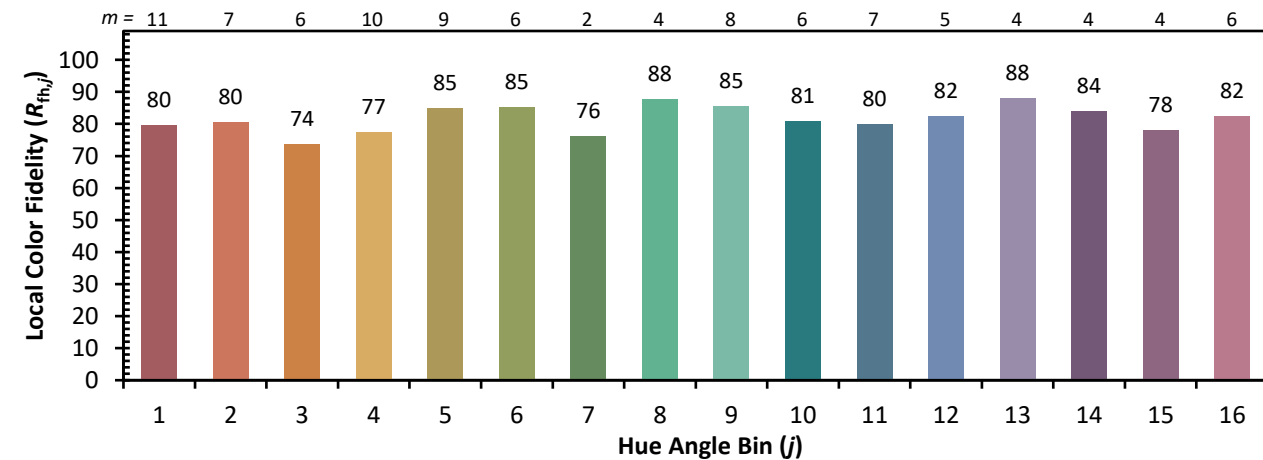
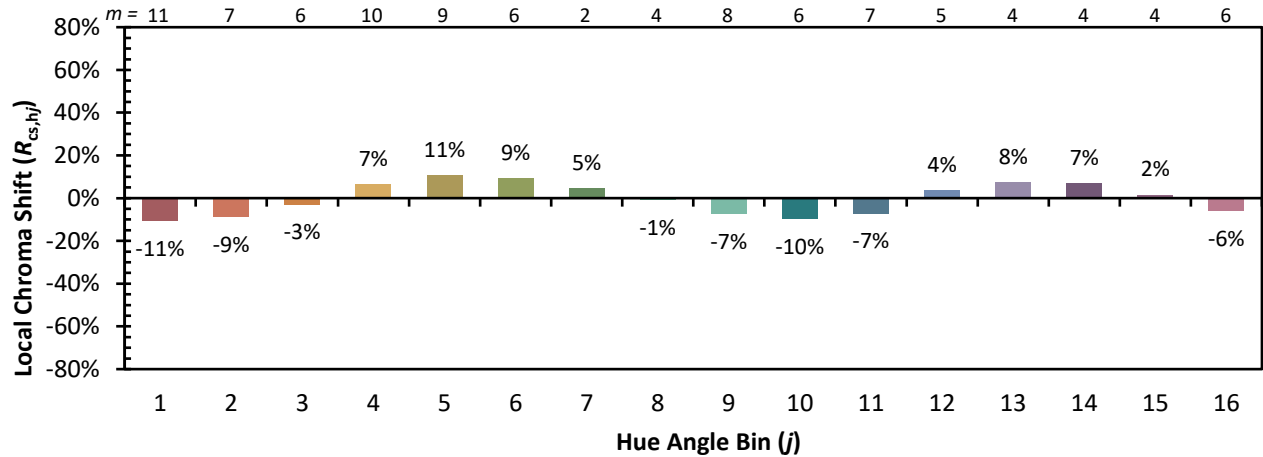


Individual Sample Fidelity Index ($R_{f,i}$)

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)