

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: P1067586

Luminaire Tested: **NAV-SA2B-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067586
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2B-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7155.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.8
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

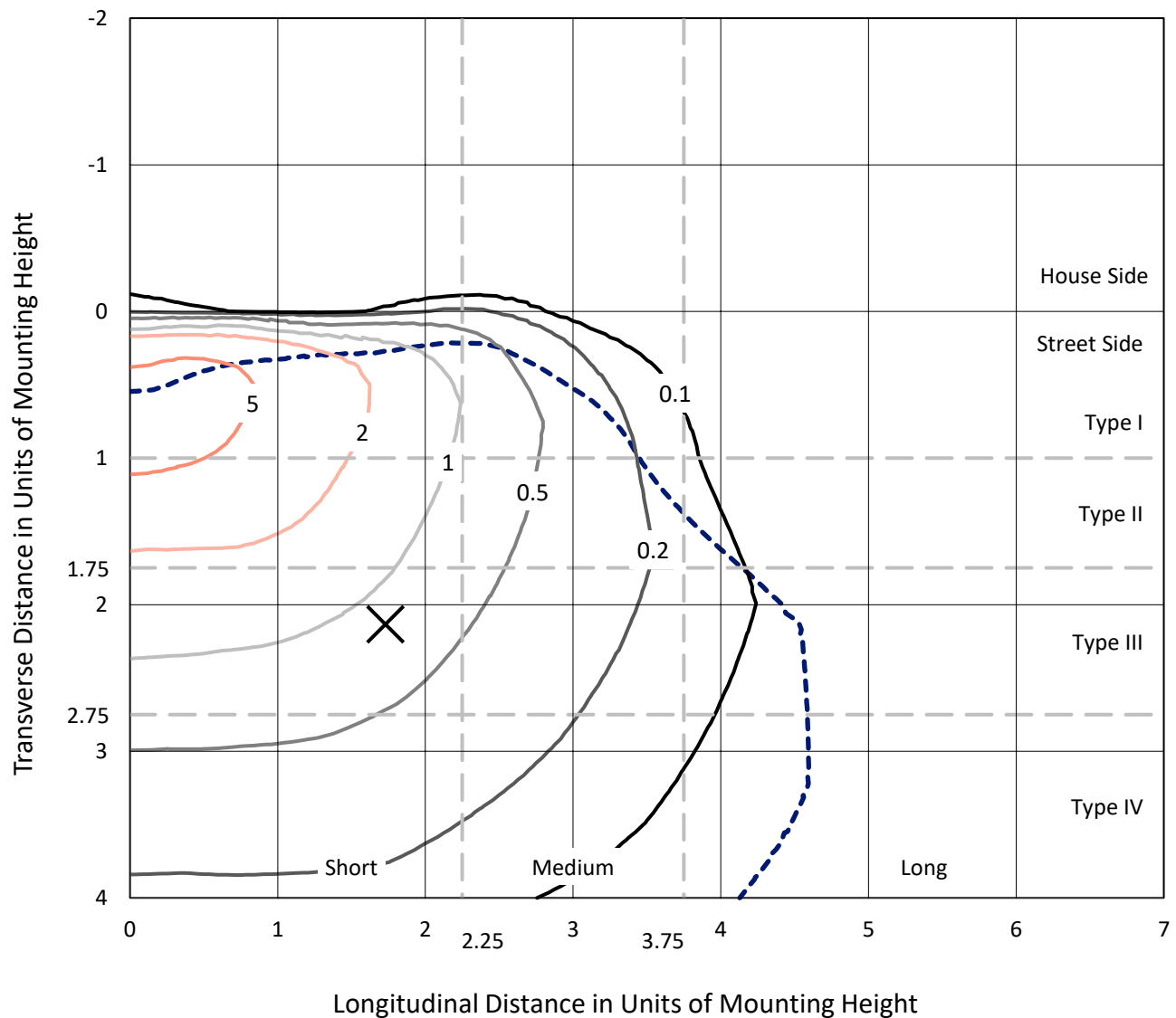


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

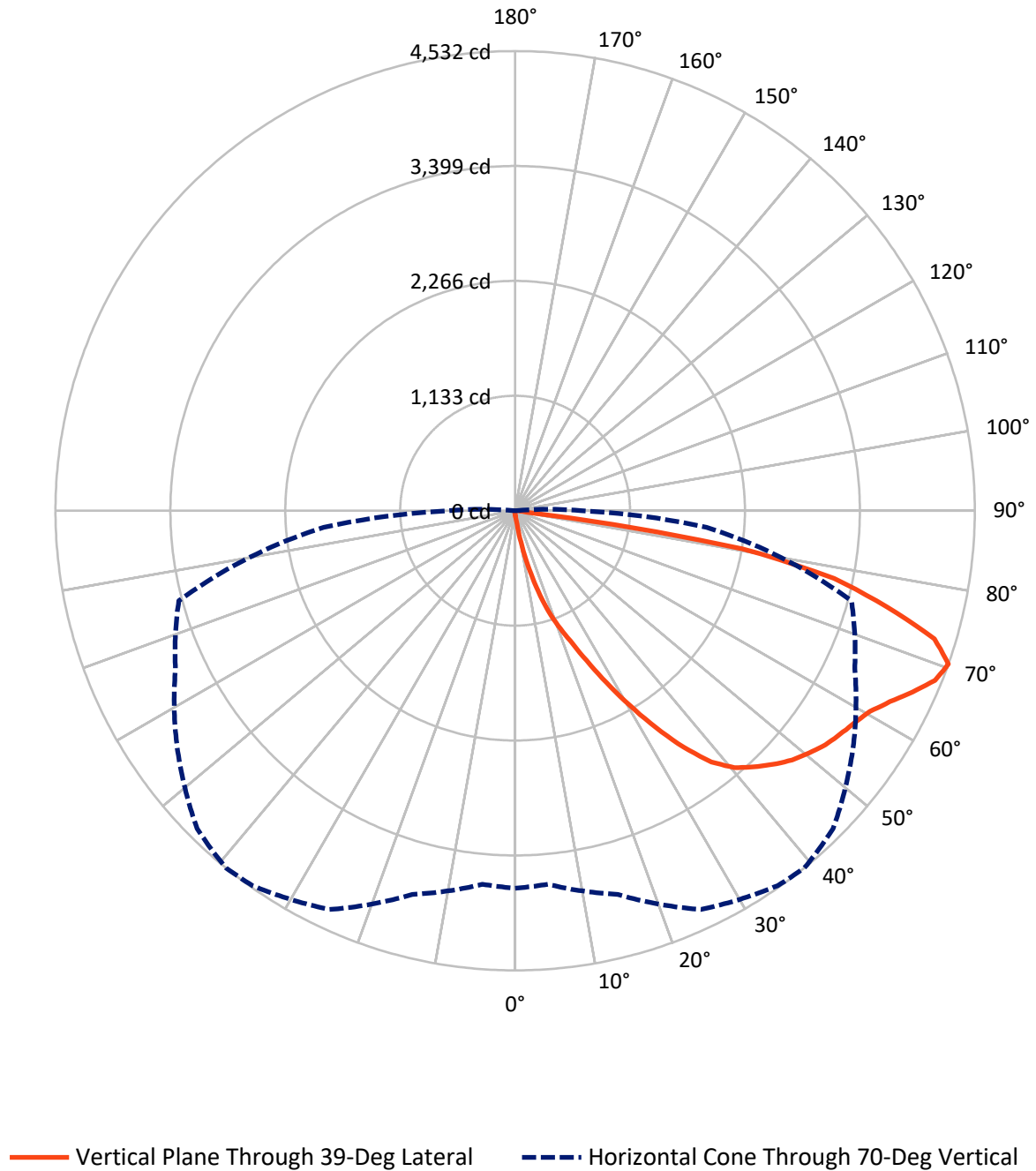


Based on 15 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22.0	0.0	22.0
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	7133.3	0.0	7133.3
	% Fixture	99.7	0.0	99.7
Total	Lumens	7155.4	0.0	7155.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	88.0	1.2
20°-30°	298.5	4.2
30°-40°	701.6	9.8
40°-50°	1139.2	15.9
50°-60°	1443.6	20.2
60°-70°	1833.7	25.6
70°-80°	1489.9	20.8
80°-90°	153.4	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°	7155.4	100.0
0°-180°	7155.4	100.0



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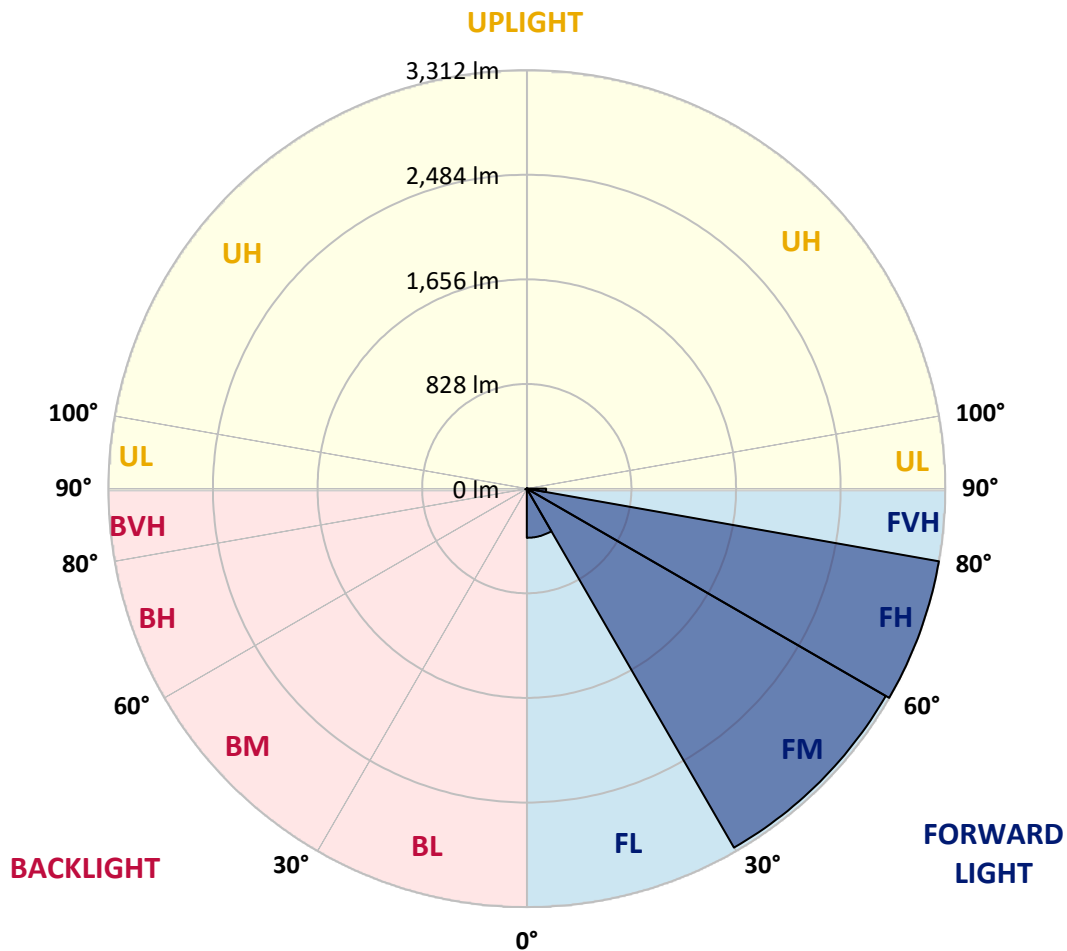
CATALOG NUMBER: NAV-SA2B-830-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.2	5.4			
FM	(30°-60°)	3280.1	45.8			
FH	(60°-80°)	3311.5	46.3			G2/5000
FVH	(80°-90°)	152.5	2.1			G2/225
BL	(0°-30°)	4.8	0.1	B0/110		
BM	(30°-60°)	4.2	0.1	B0/220		
BH	(60°-80°)	12.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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 IV Short



REPORT NUMBER: P1067586

CATALOG NUMBER: NAV-SA2B-830-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
2.5°	50.5	50.5	50.5	48.6	48.6	46.6	46.6	44.7	42.7	42.7	40.8
5°	95.2	97.1	91.3	79.6	71.9	68.0	64.1	54.4	48.6	44.7	40.8
7.5°	260.3	252.5	240.9	202.0	155.4	132.1	112.7	79.6	58.3	46.6	40.8
10°	547.8	526.5	493.4	441.0	349.7	312.8	242.8	145.7	81.6	52.5	40.8
12.5°	804.3	808.1	767.4	716.8	606.1	543.9	448.8	273.9	128.2	62.2	40.8
15°	998.5	994.6	979.1	938.3	839.2	779.0	693.5	460.4	215.6	77.7	42.7
17.5°	1152.0	1136.5	1130.6	1113.1	1049.0	1016.0	922.8	678.0	341.9	104.9	44.7
20°	1305.5	1301.6	1295.8	1276.3	1233.6	1210.3	1138.4	897.5	509.0	149.6	48.6
22.5°	1528.9	1507.5	1511.4	1468.7	1433.7	1392.9	1334.6	1130.6	701.3	213.7	54.4
25°	1791.1	1789.2	1758.1	1738.7	1680.4	1635.7	1558.0	1356.0	915.0	308.9	60.2
27.5°	2100.0	2078.6	2065.1	2032.0	1971.8	1921.3	1814.4	1579.4	1146.2	415.7	68.0
30°	2422.5	2422.5	2397.2	2346.7	2288.5	2226.3	2117.5	1814.4	1375.4	551.7	77.7
32.5°	2799.4	2807.1	2745.0	2669.2	2593.5	2550.7	2408.9	2080.6	1594.9	707.1	89.4
35°	3164.6	3154.9	3051.9	2968.4	2912.1	2865.4	2745.0	2372.0	1843.6	887.8	104.9
37.5°	3514.3	3489.0	3318.1	3199.6	3174.3	3143.2	3022.8	2663.4	2090.3	1087.9	124.3
40°	3764.9	3726.0	3549.2	3386.1	3349.2	3331.7	3238.4	2927.6	2350.6	1311.3	149.6
42.5°	3873.7	3829.0	3706.6	3574.5	3492.9	3452.1	3370.5	3143.2	2610.9	1560.0	186.5
45°	3895.0	3860.1	3772.7	3741.6	3630.8	3568.7	3457.9	3296.7	2853.8	1806.7	237.0
47.5°	3817.3	3801.8	3749.3	3815.4	3759.1	3673.6	3539.5	3411.3	3069.4	2105.8	306.9
50°	3627.0	3615.3	3640.6	3813.4	3852.3	3755.2	3628.9	3500.7	3255.9	2414.7	406.0
52.5°	3370.5	3368.6	3487.1	3762.9	3893.1	3832.9	3716.3	3590.0	3403.5	2713.9	545.9
55°	3090.8	3123.8	3331.7	3716.3	3916.4	3889.2	3801.8	3669.7	3535.6	2991.7	771.2
57.5°	3067.5	3053.9	3254.0	3696.9	3930.0	3945.5	3887.3	3753.2	3648.3	3219.0	1072.4
60°	3300.6	3269.5	3345.3	3737.7	3990.2	4017.4	3972.7	3817.3	3761.0	3397.7	1468.7
62.5°	3570.6	3541.5	3580.3	3895.0	4108.7	4147.6	4091.2	3883.4	3852.3	3522.0	1894.1
65°	3786.3	3762.9	3836.8	4130.1	4273.9	4306.9	4268.0	4005.8	3893.1	3623.1	2239.9
67.5°	3821.2	3792.1	3945.5	4287.5	4440.9	4464.2	4433.2	4124.3	3879.5	3630.8	2319.5
70°	3722.1	3696.9	3916.4	4338.0	4512.8	4532.2	4433.2	4067.9	3694.9	3432.7	1896.0
72.5°	3417.1	3436.6	3720.2	4215.6	4413.7	4324.4	4114.6	3784.3	3456.0	2910.1	1330.7
75°	2943.1	2964.5	3341.4	3879.5	3895.0	3786.3	3673.6	3481.3	3092.7	1917.4	922.8
77.5°	2092.2	2016.5	2579.9	3203.5	3147.1	3217.1	3226.8	2896.5	2589.6	998.5	617.8
80°	205.9	174.8	324.4	918.9	2030.1	2269.0	2362.3	2232.1	1909.6	446.8	324.4
82.5°	44.7	44.7	48.6	52.5	81.6	122.4	561.4	1375.4	1233.6	227.3	104.9
85°	25.3	25.3	31.1	36.9	48.6	54.4	64.1	85.5	332.2	81.6	19.4
87.5°	19.4	21.4	25.3	31.1	40.8	44.7	54.4	68.0	83.5	75.8	5.8
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: P1067586

CATALOG NUMBER: NAV-SA2B-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
2.5°	40.8	38.9	36.9	35.0	33.0	33.0	31.1	31.1	31.1	31.1	31.1
5°	38.9	36.9	35.0	31.1	29.1	27.2	25.3	25.3	25.3	25.3	25.3
7.5°	38.9	36.9	33.0	29.1	25.3	23.3	21.4	19.4	19.4	21.4	21.4
10°	38.9	35.0	29.1	25.3	21.4	19.4	17.5	15.5	15.5	15.5	15.5
12.5°	36.9	33.0	27.2	23.3	19.4	15.5	11.7	9.7	9.7	9.7	9.7
15°	35.0	31.1	25.3	19.4	13.6	9.7	7.8	5.8	5.8	5.8	5.8
17.5°	35.0	29.1	23.3	17.5	9.7	5.8	3.9	1.9	1.9	1.9	3.9
20°	35.0	29.1	21.4	13.6	5.8	3.9	3.9	1.9	0.0	1.9	1.9
22.5°	35.0	27.2	17.5	9.7	5.8	3.9	1.9	0.0	0.0	0.0	0.0
25°	36.9	27.2	15.5	7.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
27.5°	36.9	25.3	13.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
30°	38.9	25.3	11.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	38.9	23.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	38.9	21.4	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	38.9	19.4	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	40.8	17.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	42.7	15.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	44.7	13.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	50.5	13.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	58.3	13.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	69.9	13.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	91.3	11.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	132.1	11.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	221.5	11.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	388.5	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	656.6	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	856.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	650.8	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	310.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	137.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.2	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.3	3.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	3.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
85°	5.8	3.9	3.9	3.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	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

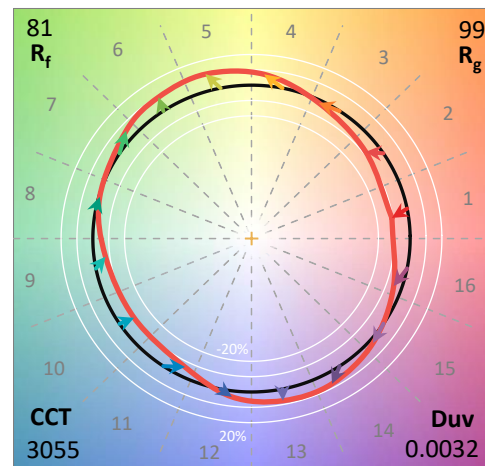
Test Information

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

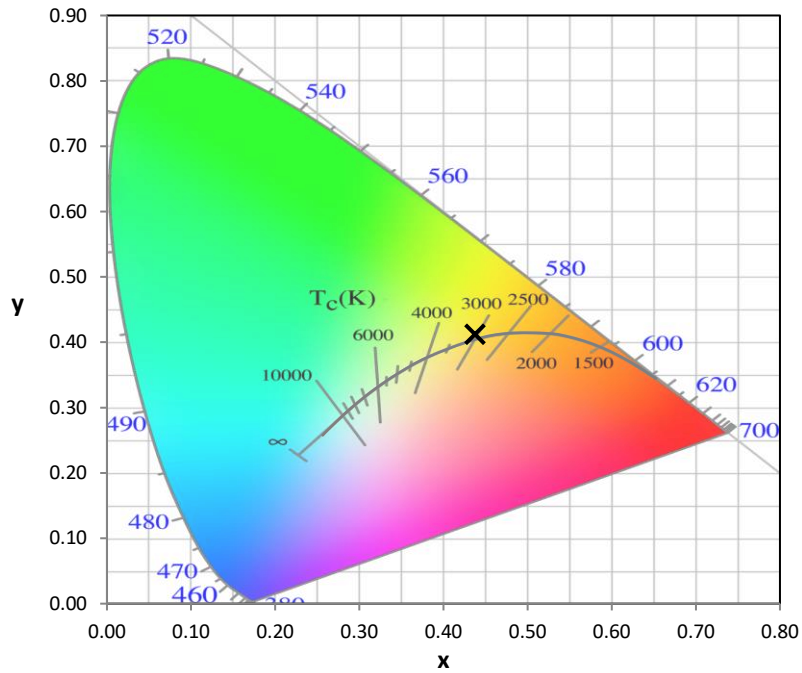
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

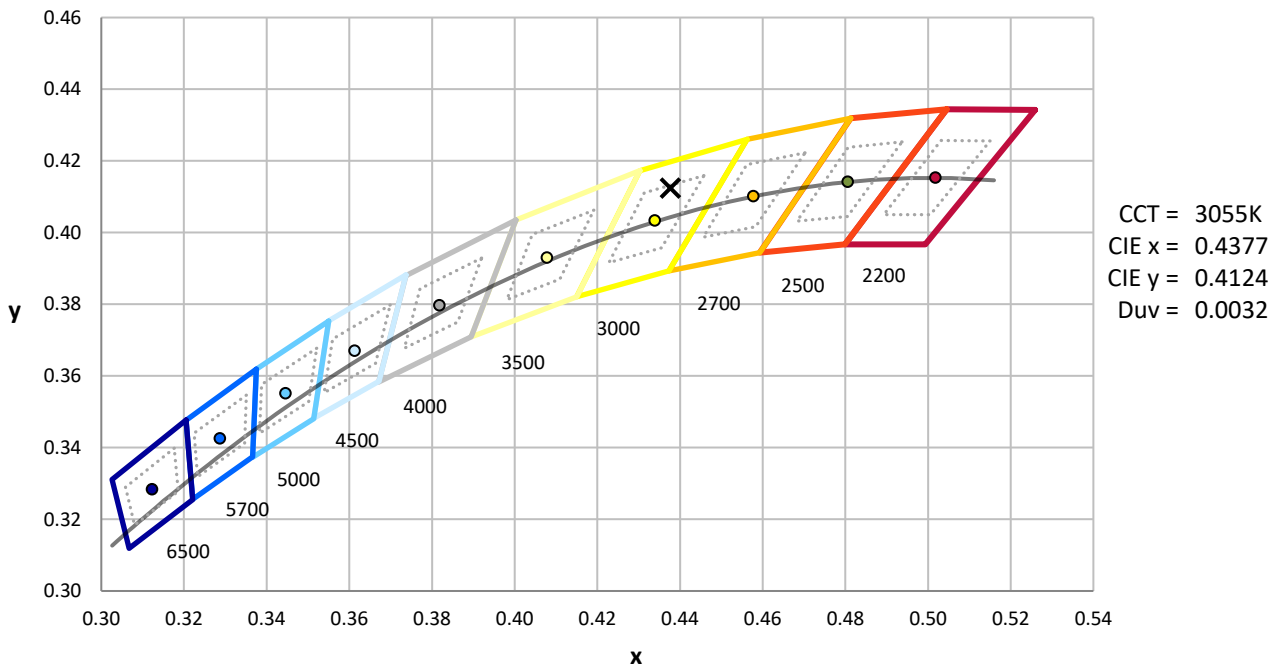
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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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 3000K 4-step quadrangle

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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



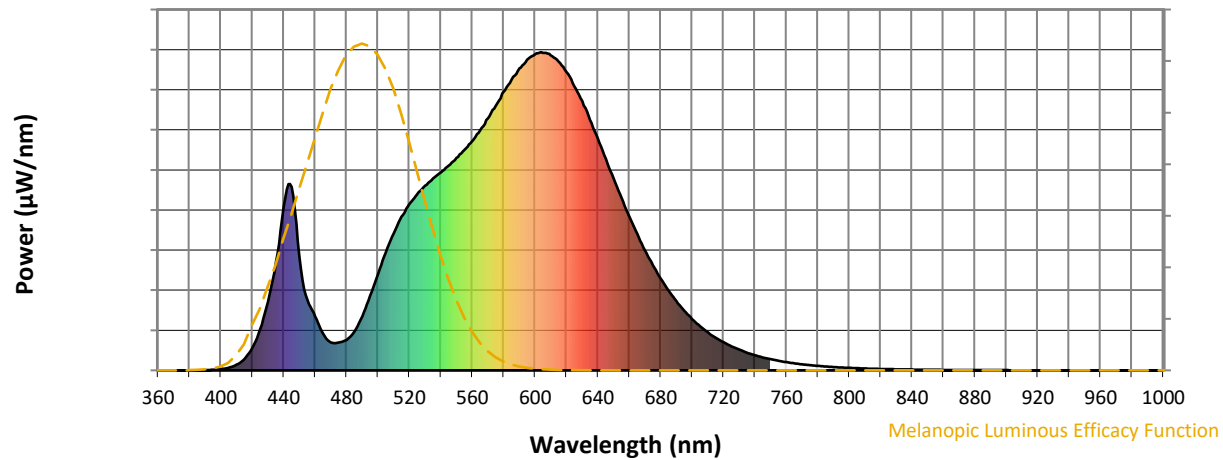
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

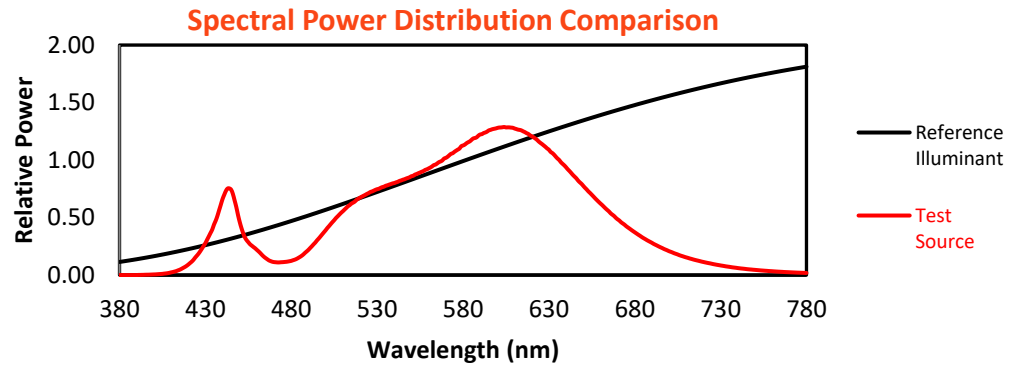
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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

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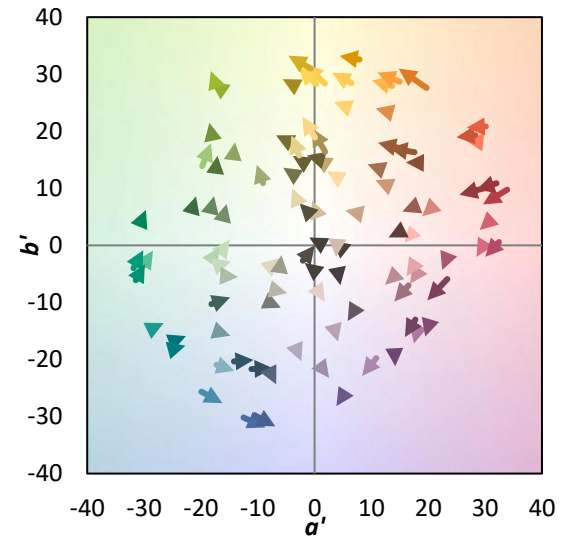
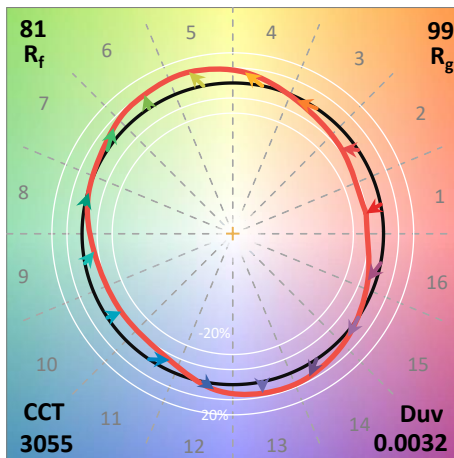
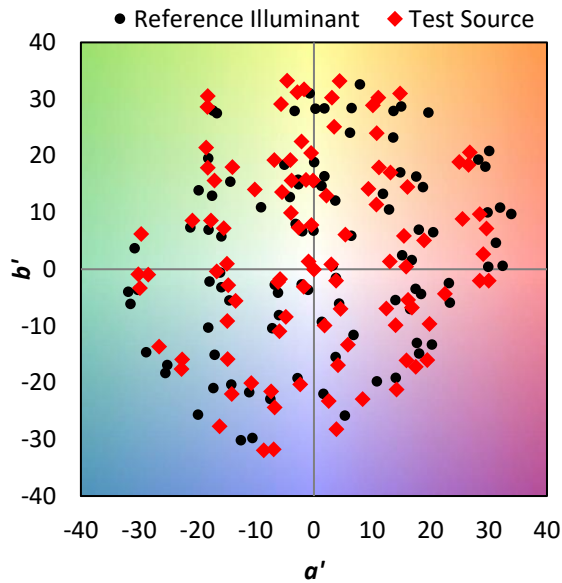
TM-30-18

Summary

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

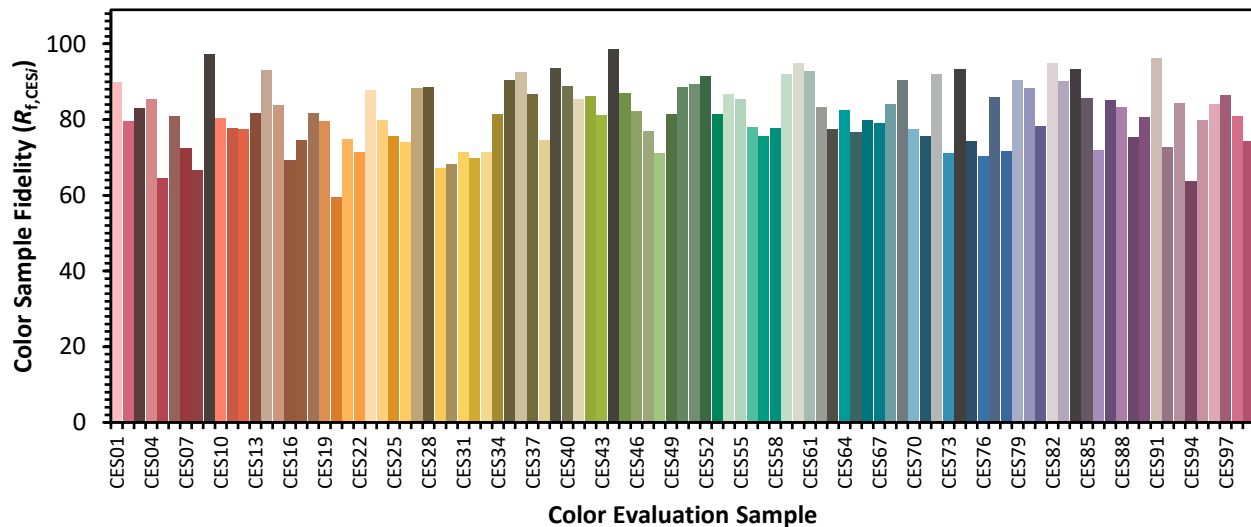


Color Vector Graphics

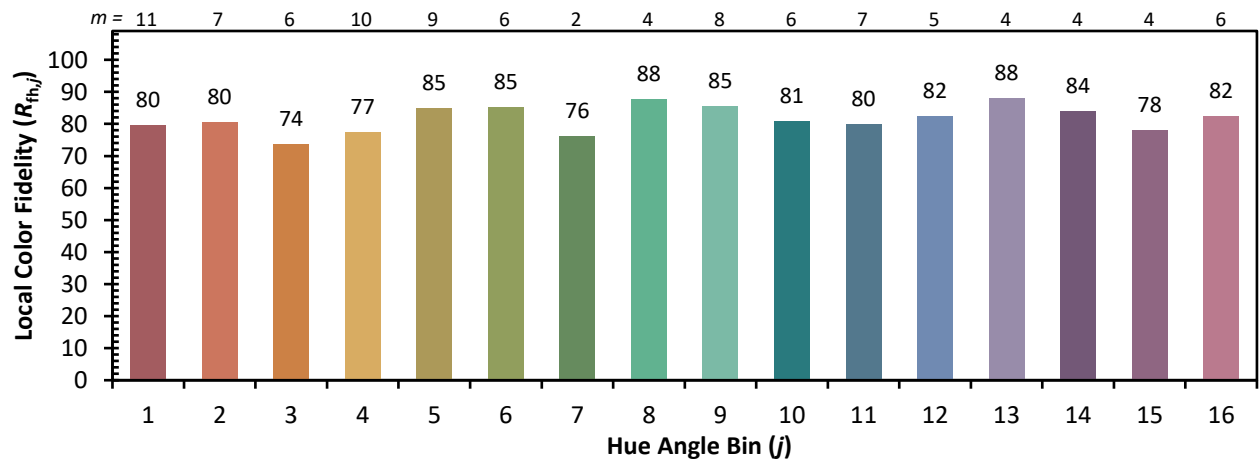
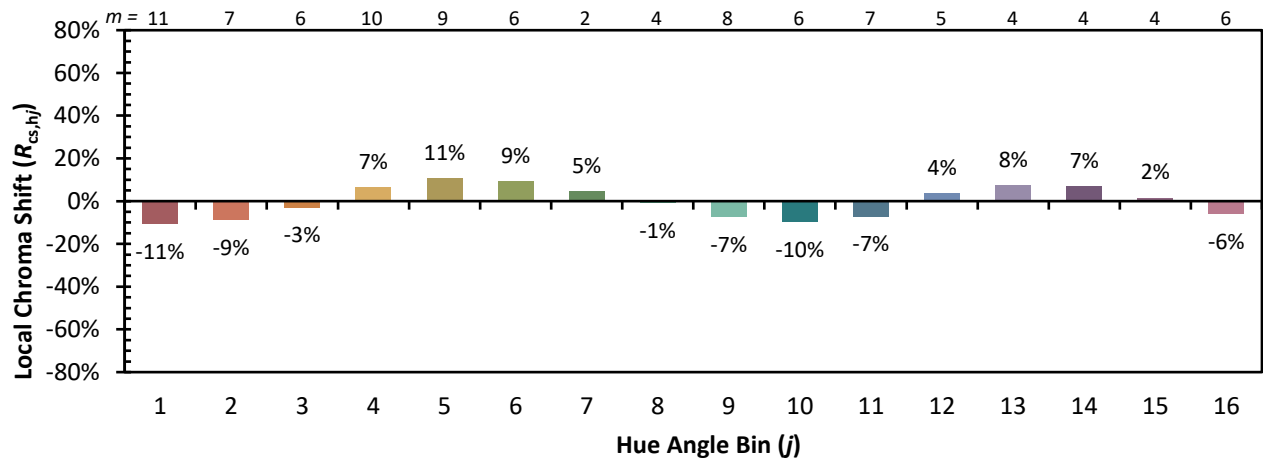


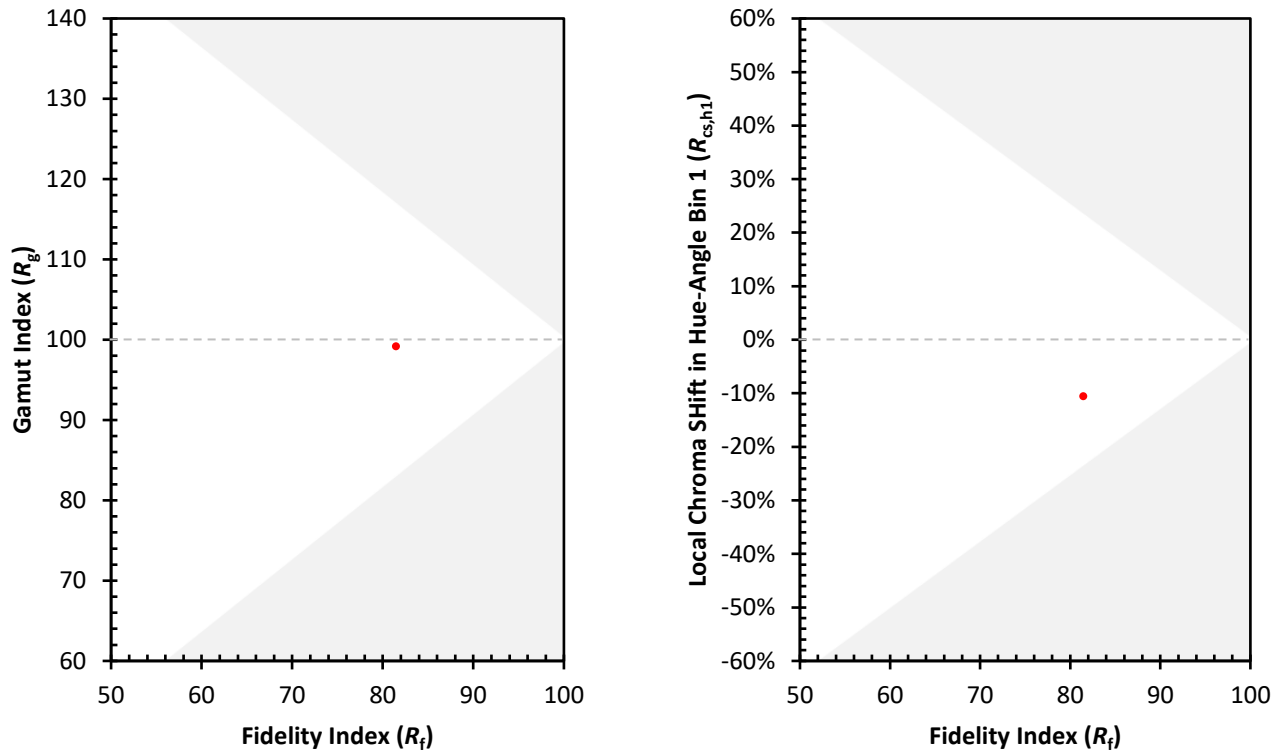
Individual Sample Fidelity Index ($R_{f,i}$)

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)