

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: P1067106

Luminaire Tested: **NAV-SA2B-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067106
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-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7484.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - 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

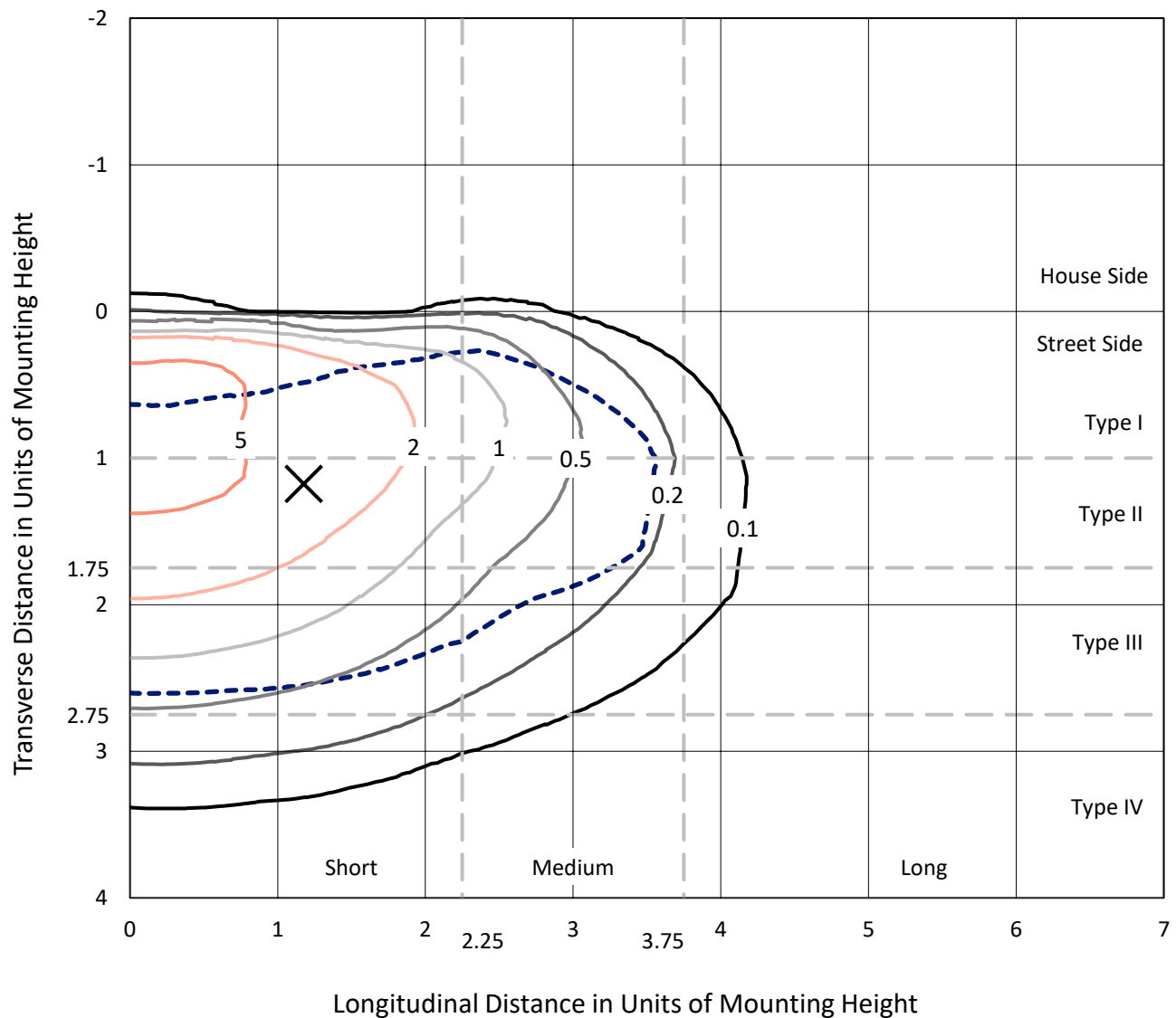


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

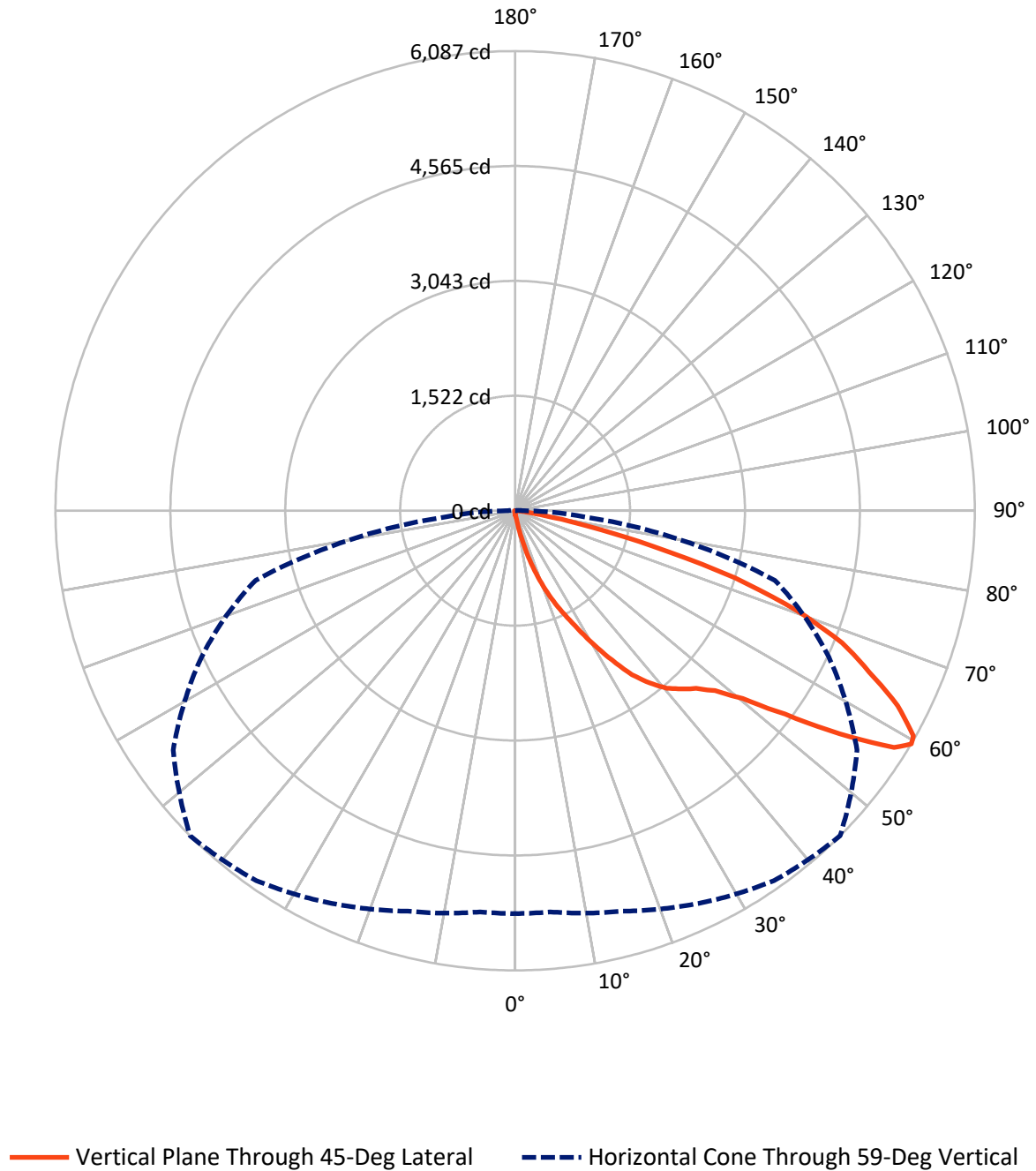


Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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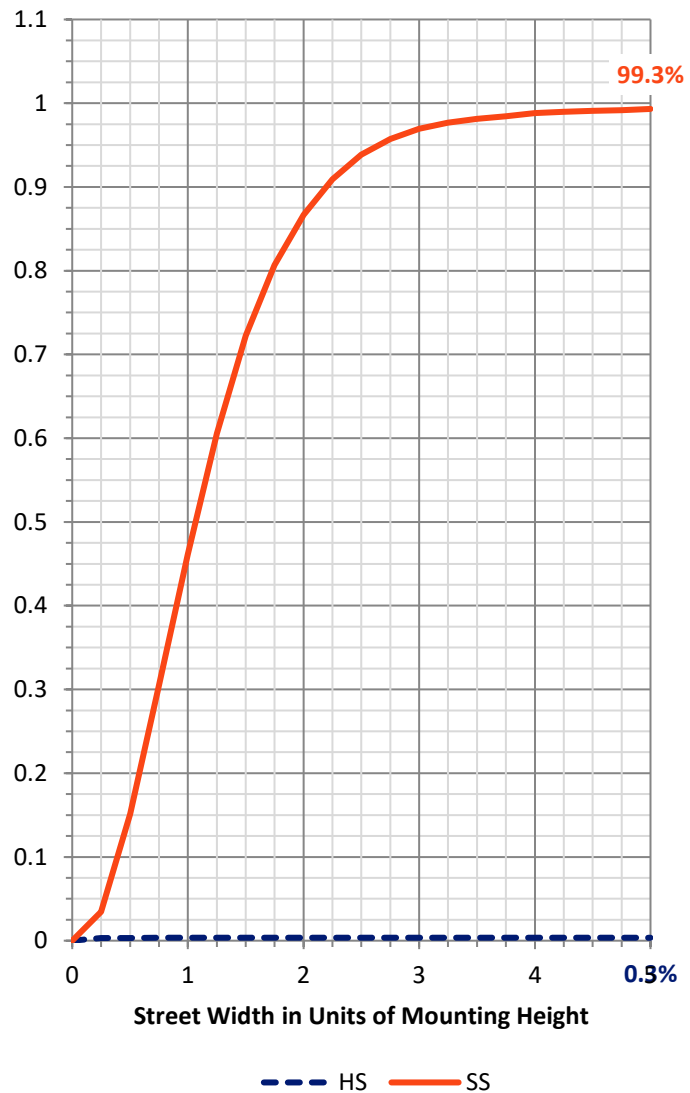
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26.6	0.0	26.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	7457.6	0.0	7457.6
	% Fixture	99.6	0.0	99.6
Total	Lumens	7484.1	0.0	7484.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.1
10°-20°	82.7	1.1
20°-30°	297.2	4.0
30°-40°	690.7	9.2
40°-50°	1177.2	15.7
50°-60°	1939.7	25.9
60°-70°	2242.8	30.0
70°-80°	963.6	12.9
80°-90°	83.3	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°	7484.1	100.0
0°-180°	7484.1	100.0



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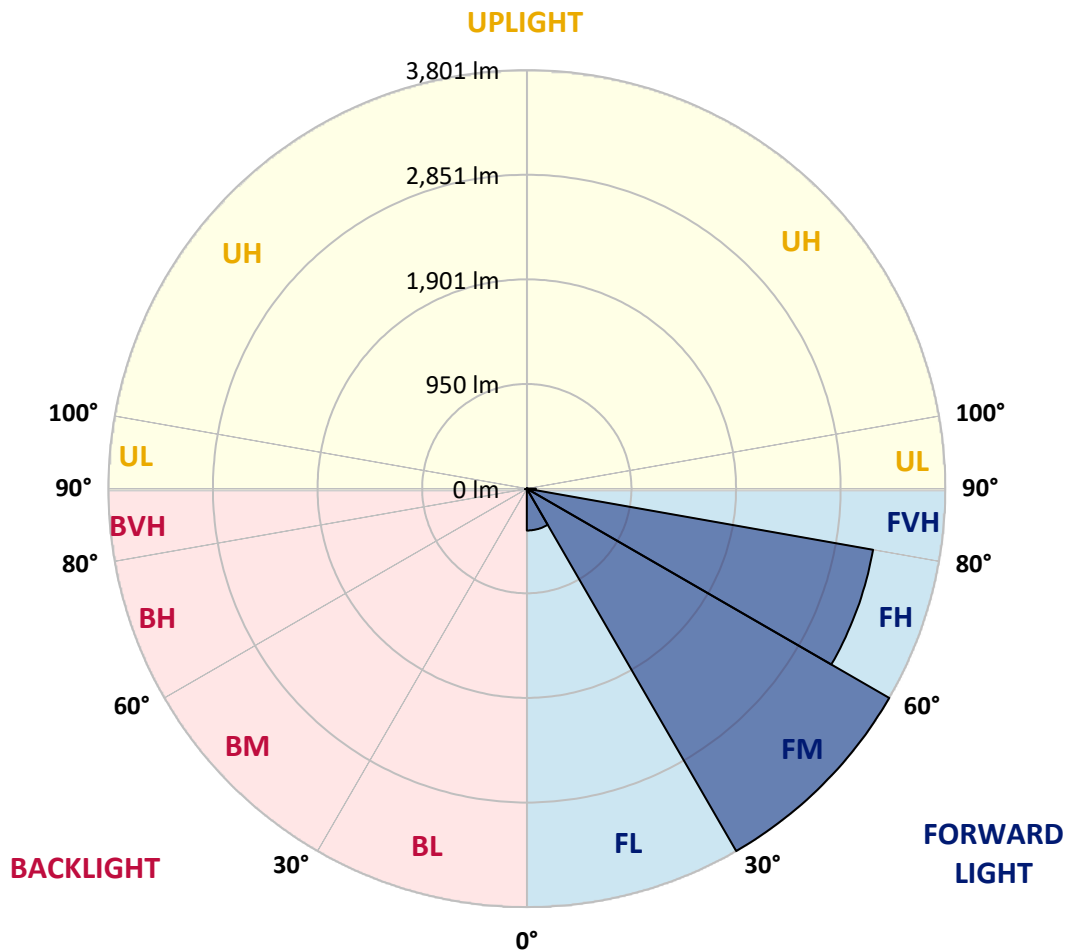
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.3	5.1			
FM	(30°-60°)	3801.2	50.8			
FH	(60°-80°)	3193.8	42.7			G2/5000
FVH	(80°-90°)	82.2	1.1			G1/100
BL	(0°-30°)	6.6	0.1	B0/110		
BM	(30°-60°)	6.4	0.1	B0/220		
BH	(60°-80°)	12.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
2.5°	61.4	61.4	59.9	57.9	57.4	55.9	55.9	54.3	52.3	50.8	48.8
5°	89.1	88.6	84.5	79.5	73.0	68.9	68.9	63.4	58.4	53.8	49.8
7.5°	194.8	190.2	175.6	151.5	119.8	98.6	97.1	79.0	66.9	57.9	50.3
10°	446.9	431.3	410.6	352.8	260.7	182.2	178.6	115.2	80.0	62.4	51.3
12.5°	732.2	744.8	703.5	612.4	504.7	375.4	350.3	194.2	105.7	68.4	52.3
15°	991.9	988.9	965.7	891.2	766.9	594.8	579.2	337.7	151.5	78.0	53.3
17.5°	1186.1	1182.6	1160.5	1112.7	1017.0	844.9	831.3	538.5	237.5	91.6	54.3
20°	1390.9	1386.4	1355.2	1317.0	1233.4	1087.0	1070.9	762.9	371.9	113.7	54.3
22.5°	1636.5	1628.0	1594.8	1529.8	1441.8	1314.5	1299.9	992.4	538.5	150.0	56.9
25°	1933.4	1918.8	1873.0	1814.7	1708.5	1539.4	1523.8	1248.0	739.3	204.8	59.4
27.5°	2272.1	2274.6	2212.7	2114.1	1971.7	1799.1	1769.9	1477.0	947.1	283.3	62.4
30°	2674.2	2649.0	2562.0	2447.2	2308.8	2088.9	2060.8	1705.0	1180.6	399.1	67.4
32.5°	3050.6	3023.4	2906.2	2761.8	2613.3	2381.3	2358.2	1961.1	1393.0	535.9	76.5
35°	3373.7	3354.6	3190.5	3014.4	2882.5	2675.2	2668.2	2247.0	1642.6	683.4	86.6
37.5°	3658.0	3623.3	3412.4	3229.8	3095.9	2910.2	2895.1	2508.6	1883.1	854.5	101.7
40°	3900.6	3881.5	3624.3	3384.3	3275.6	3109.5	3090.4	2738.1	2131.7	1053.3	120.3
42.5°	4160.3	4135.1	3885.5	3616.3	3416.0	3238.3	3225.7	2927.3	2353.1	1271.7	148.0
45°	4453.6	4406.8	4187.9	3946.4	3641.9	3371.7	3357.6	3095.9	2580.1	1506.2	181.7
47.5°	4767.2	4726.4	4549.3	4379.7	4029.4	3591.6	3561.4	3239.3	2805.5	1776.9	224.4
50°	5086.2	5087.2	4954.4	4872.8	4503.0	3948.9	3906.1	3450.2	3042.6	2066.8	287.9
52.5°	5457.6	5467.2	5465.1	5404.8	5117.9	4533.2	4475.8	3770.2	3317.8	2405.0	375.4
55°	5613.1	5630.2	5741.4	5875.3	5797.3	5273.9	5212.5	4322.3	3682.7	2781.9	505.2
57.5°	5485.8	5504.9	5658.4	5892.9	6072.0	5922.6	5915.5	5040.9	4163.3	3238.8	717.6
59°	5334.3	5331.8	5489.3	5737.9	5979.5	6076.6	6086.6	5527.0	4582.0	3559.4	900.8
60°	5233.7	5235.7	5340.3	5595.5	5852.1	6020.7	6060.0	5813.4	4826.5	3789.9	1057.8
62.5°	4845.2	4868.3	4951.3	5188.4	5431.9	5620.1	5687.1	6068.5	5526.5	4334.4	1603.8
65°	4422.9	4424.5	4542.7	4745.5	4979.0	5111.4	5153.6	5671.5	5994.0	4888.9	2319.9
67.5°	3669.6	3700.3	3834.7	4163.3	4471.8	4639.3	4671.5	4936.7	5800.3	5250.3	2678.7
70°	2568.0	2608.3	2800.0	3226.2	3685.7	3961.0	3959.0	4103.9	5104.8	5089.2	2271.1
72.5°	1282.2	1351.7	1508.2	1964.6	2521.2	2953.5	3044.6	3301.2	4100.9	4227.2	1694.4
75°	566.6	570.7	659.7	889.7	1253.1	1802.1	1883.6	2620.4	3146.2	2937.9	1223.9
77.5°	329.6	332.6	348.7	399.6	507.8	883.2	974.8	1718.6	2223.3	1707.5	798.1
80°	119.8	122.8	122.3	151.5	222.4	347.7	387.5	832.9	1483.0	899.3	418.2
82.5°	73.5	73.5	71.0	71.5	81.0	133.4	145.9	354.8	722.1	442.8	119.8
85°	36.2	38.2	40.8	45.8	54.3	65.9	69.9	101.7	243.1	107.2	28.7
87.5°	21.6	22.1	24.2	29.2	36.2	47.3	50.3	68.9	87.1	72.0	7.0
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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CATALOG NUMBER: NAV-SA2B-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
2.5°	47.8	47.3	44.8	42.8	40.8	38.7	37.2	35.7	35.7	36.2	35.7
5°	47.8	45.8	41.8	38.2	35.2	32.7	30.2	28.2	27.7	27.7	28.2
7.5°	47.3	44.8	39.3	34.7	30.7	27.2	24.7	22.1	21.6	22.1	21.6
10°	46.8	43.8	37.2	31.7	26.2	22.6	19.1	16.6	16.6	16.6	17.1
12.5°	46.8	42.3	35.2	28.7	22.6	18.6	15.1	12.6	12.1	12.1	12.1
15°	46.3	41.3	33.2	25.2	19.1	14.1	11.1	8.6	8.6	8.6	8.6
17.5°	45.3	39.8	30.7	22.1	15.1	10.6	7.5	5.0	5.0	6.0	6.0
20°	44.3	38.2	27.7	18.1	12.6	8.1	5.0	3.0	3.0	4.5	5.0
22.5°	44.8	38.2	25.7	16.1	10.1	6.0	4.0	2.5	2.0	3.5	4.5
25°	45.3	37.2	23.1	14.1	7.5	4.5	3.0	1.0	0.5	1.0	1.5
27.5°	45.3	36.2	20.1	11.1	5.5	3.5	1.5	0.0	0.0	0.0	0.0
30°	44.8	34.7	17.6	9.1	4.0	2.0	0.5	0.0	0.0	0.0	0.0
32.5°	44.3	33.2	16.1	7.0	3.5	1.0	0.0	0.0	0.0	0.0	0.0
35°	44.8	31.2	14.1	5.5	2.0	0.0	0.0	0.0	0.0	0.0	1.0
37.5°	46.3	29.2	12.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	48.3	27.7	10.1	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	52.3	27.7	9.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	57.4	27.7	7.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	63.9	28.2	6.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	72.0	29.2	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	78.0	28.2	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	88.6	27.2	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	102.7	25.7	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	116.8	23.7	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	132.9	22.6	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	219.4	20.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	423.7	19.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	684.9	19.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	720.1	19.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	479.1	15.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	256.7	14.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	138.4	13.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	60.9	9.6	2.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.2	6.5	3.0	2.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	11.6	5.0	4.0	3.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	5.0	4.5	4.0	3.5	2.5	0.5	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

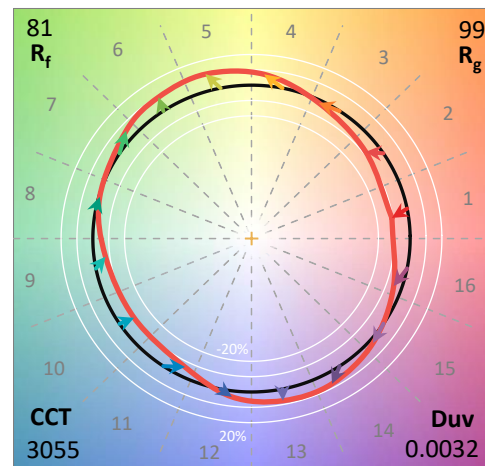
Test Information

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

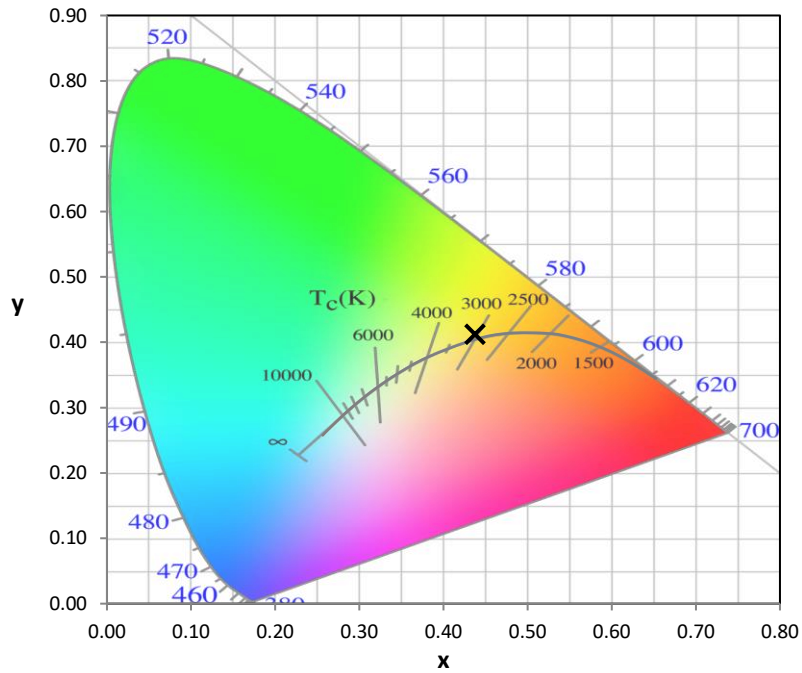
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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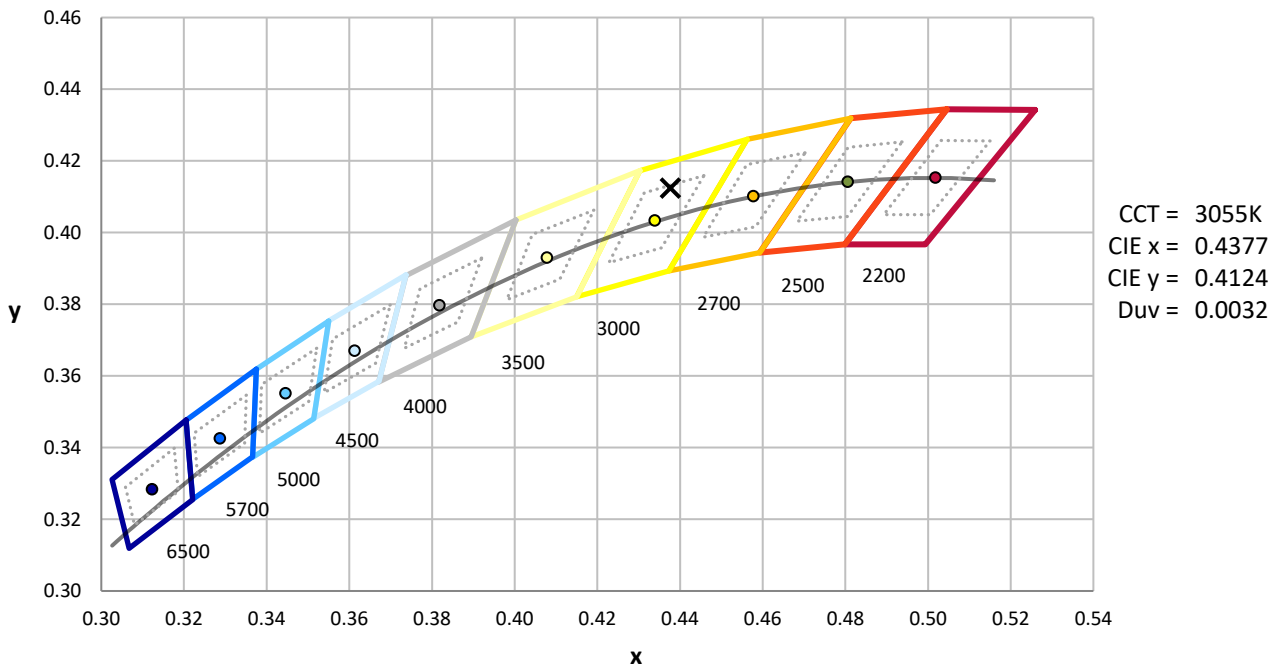
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

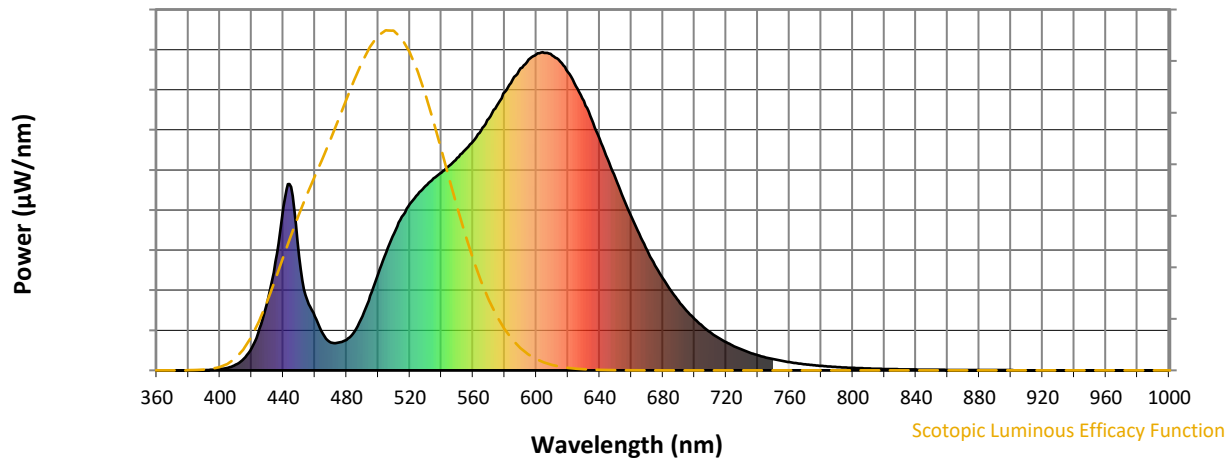


Photopic Lumens: NR

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	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



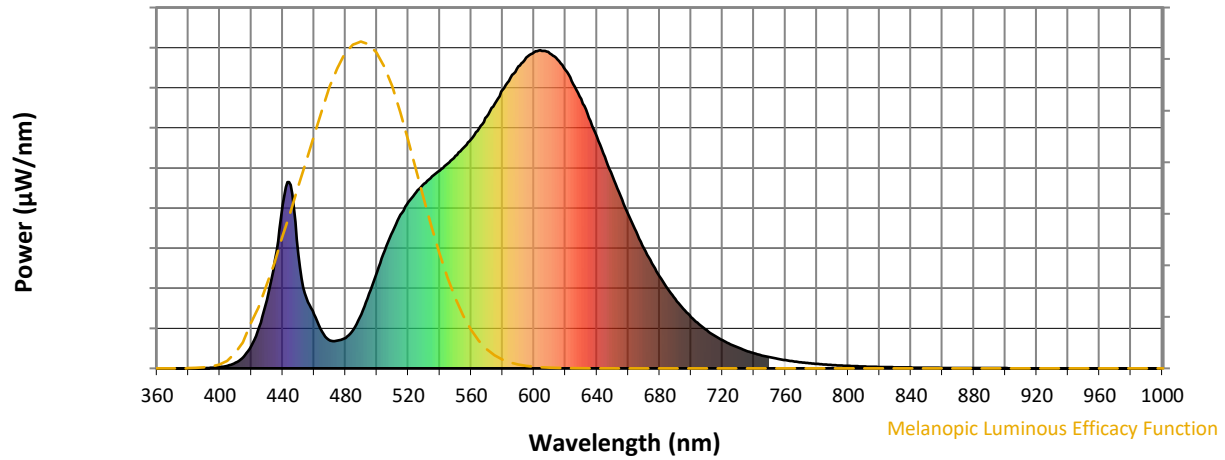
Scotopic Lumens: NR

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

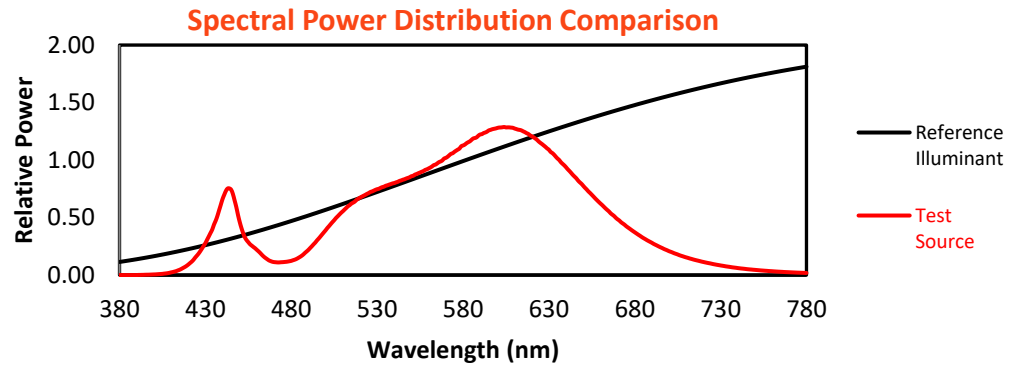
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	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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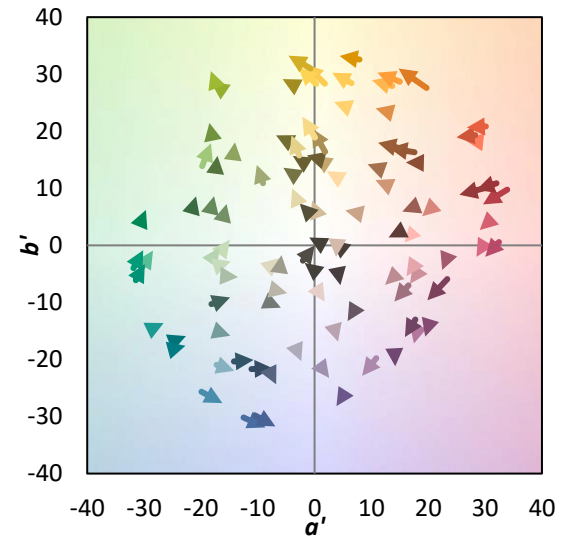
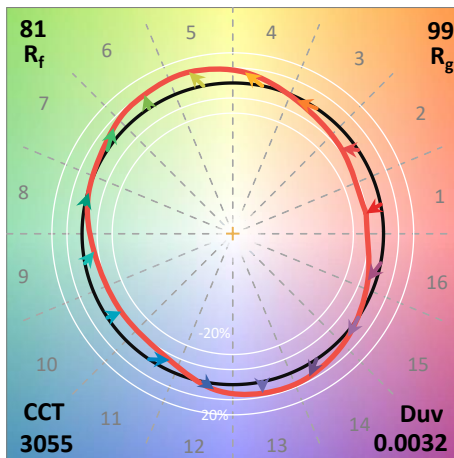
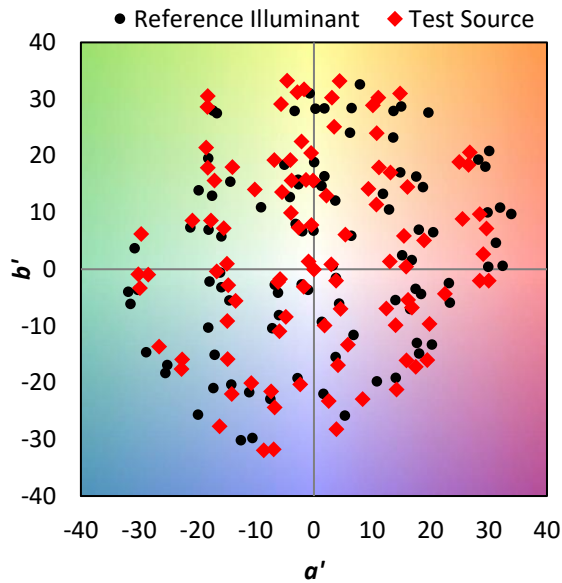
TM-30-18

Summary

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



Color Vector Graphics

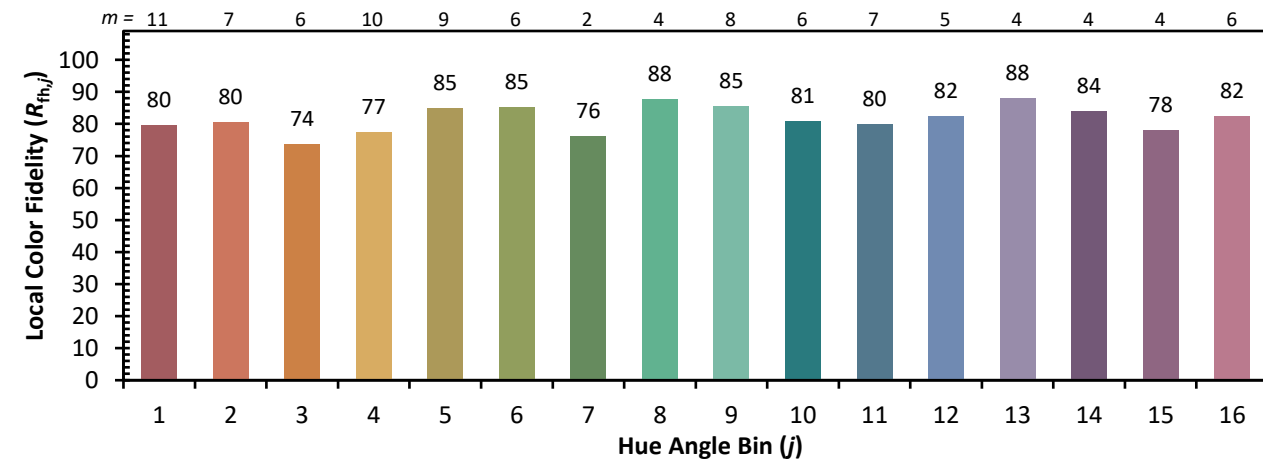
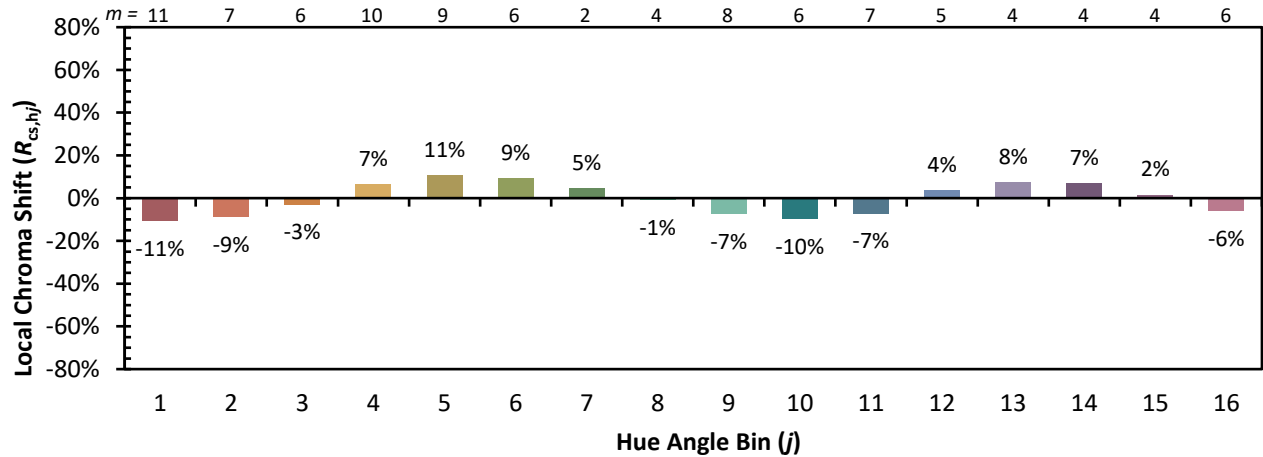


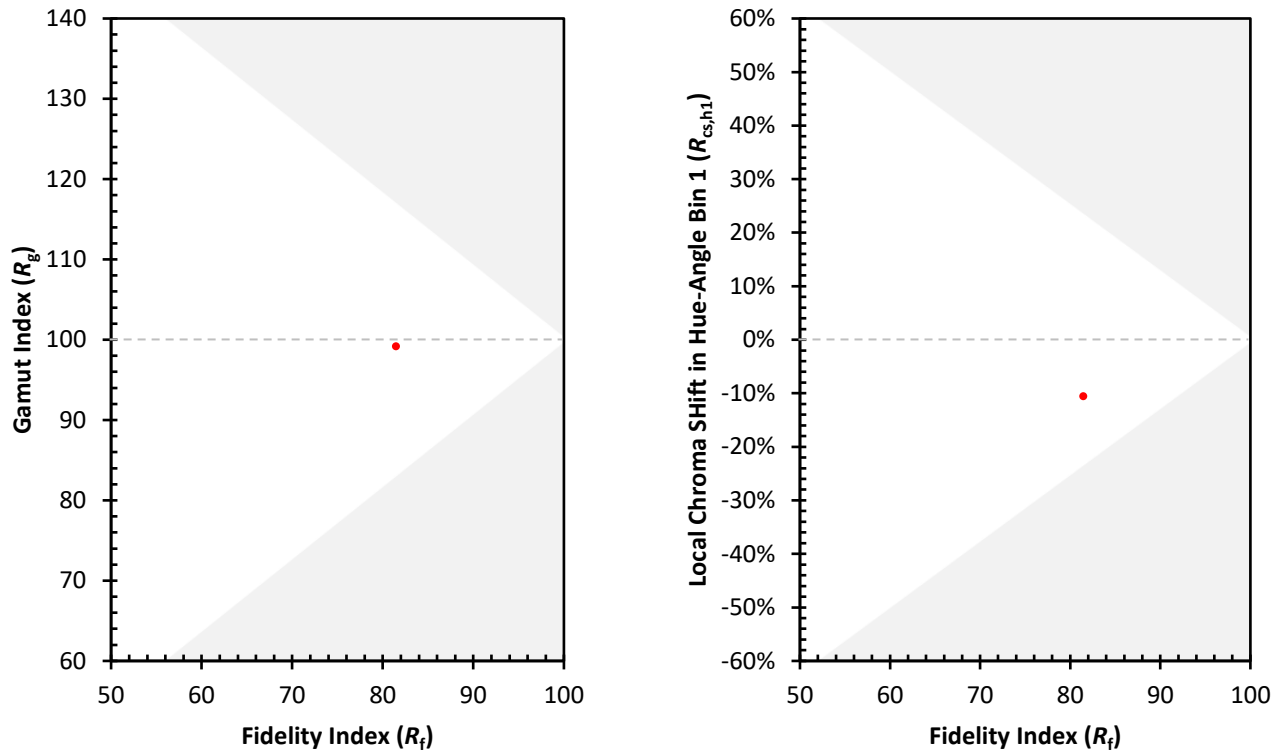
Individual Sample Fidelity Index ($R_{f,i}$)

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)