

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: P1067108

Luminaire Tested: **NAV-SA2D-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067108
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2D-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 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: 10188.7 lumens
Efficiency: N/A
Efficacy: 95.2 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): 107
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



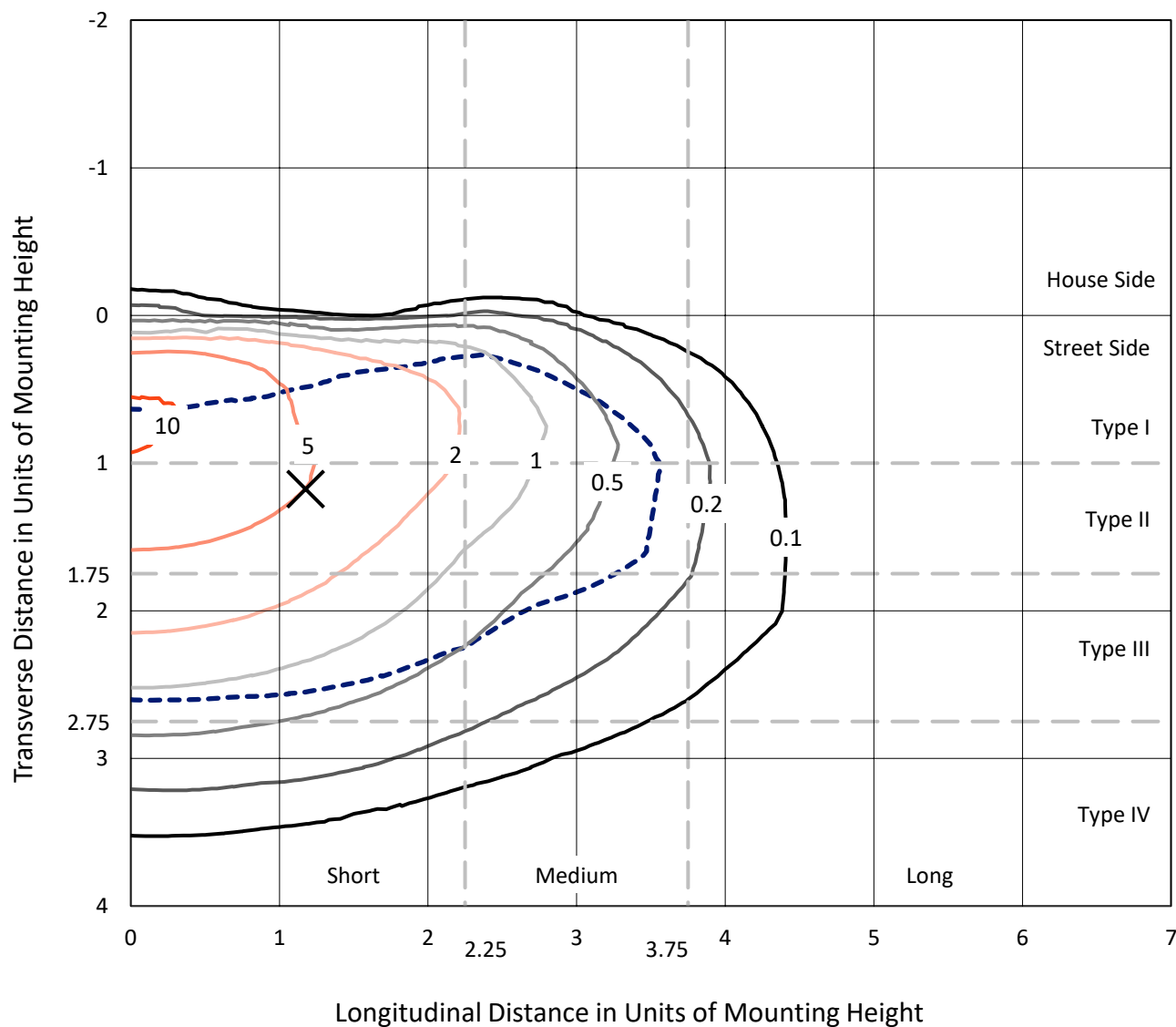
REPORT NUMBER: P1067108

CATALOG NUMBER: NAV-SA2D-830-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

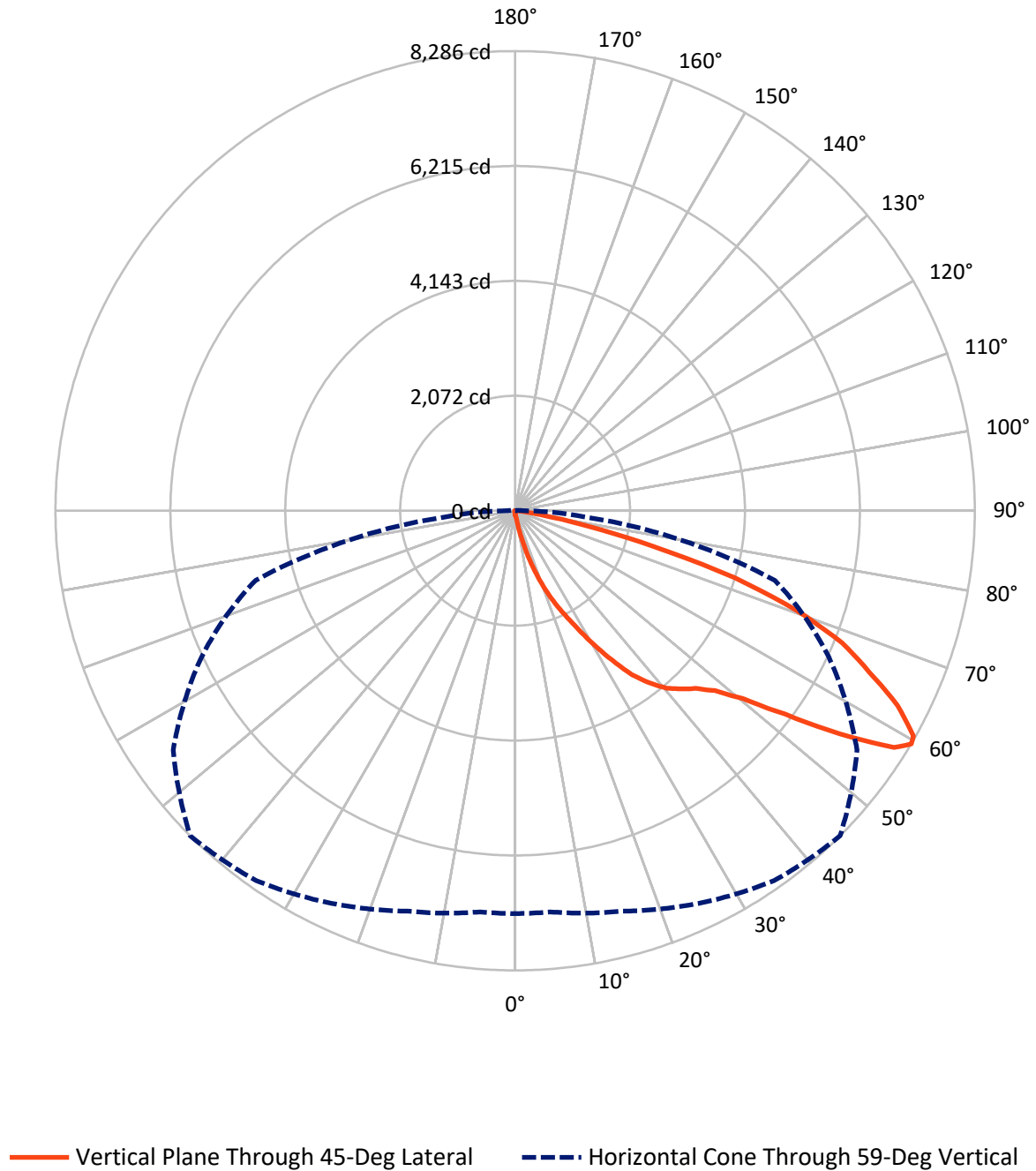


Based on 15 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36.2	0.0	36.2
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	10152.6	0.0	10152.6
	% Fixture	99.6	0.0	99.6
Total	Lumens	10188.7	0.0	10188.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.1
10°-20°	112.6	1.1
20°-30°	404.6	4.0
30°-40°	940.3	9.2
40°-50°	1602.6	15.7
50°-60°	2640.7	25.9
60°-70°	3053.3	30.0
70°-80°	1311.8	12.9
80°-90°	113.4	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°	10188.7	100.0
0°-180°	10188.7	100.0



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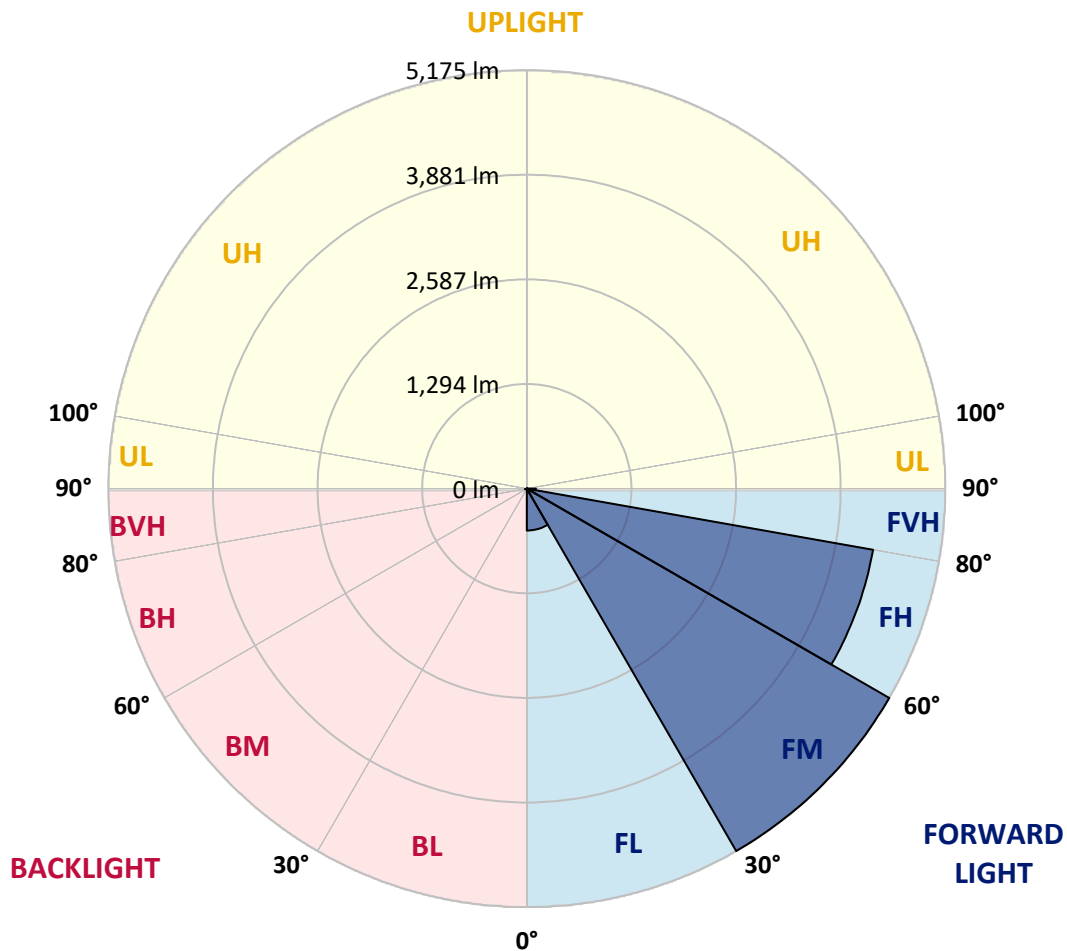
CATALOG NUMBER: NAV-SA2D-830-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.8	5.1			
FM	(30°-60°)	5174.9	50.8			
FH	(60°-80°)	4348.0	42.7			G2/5000
FVH	(80°-90°)	111.9	1.1			G2/225
BL	(0°-30°)	8.9	0.1	B0/110		
BM	(30°-60°)	8.8	0.1	B0/220		
BH	(60°-80°)	17.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2.5°	83.6	83.6	81.5	78.8	78.1	76.0	76.0	74.0	71.2	69.2	66.5
5°	121.3	120.6	115.1	108.2	99.3	93.9	93.9	86.3	79.5	73.3	67.8
7.5°	265.1	259.0	239.1	206.2	163.1	134.3	132.2	107.6	91.1	78.8	68.5
10°	608.4	587.1	559.0	480.3	354.9	248.0	243.2	156.9	108.9	85.0	69.9
12.5°	996.8	1013.9	957.8	833.8	687.1	511.1	476.8	264.4	143.9	93.2	71.2
15°	1350.3	1346.2	1314.7	1213.3	1044.1	809.8	788.5	459.7	206.2	106.2	72.6
17.5°	1614.8	1610.0	1579.8	1514.7	1384.6	1150.3	1131.8	733.1	323.4	124.7	74.0
20°	1893.6	1887.4	1845.0	1792.9	1679.2	1479.8	1457.9	1038.6	506.3	154.8	74.0
22.5°	2227.9	2216.3	2171.1	2082.7	1962.8	1789.5	1769.6	1351.0	733.1	204.2	77.4
25°	2632.1	2612.3	2549.9	2470.4	2325.9	2095.7	2074.5	1699.0	1006.4	278.8	80.8
27.5°	3093.2	3096.6	3012.4	2878.1	2684.2	2449.2	2409.5	2010.8	1289.3	385.7	85.0
30°	3640.6	3606.3	3487.8	3331.6	3143.2	2843.8	2805.5	2321.1	1607.2	543.3	91.8
32.5°	4153.0	4116.0	3956.4	3759.8	3557.7	3241.9	3210.4	2669.8	1896.3	729.6	104.1
35°	4592.9	4566.8	4343.5	4103.7	3924.2	3642.0	3632.4	3058.9	2236.1	930.4	117.8
37.5°	4979.9	4932.7	4645.6	4396.9	4214.7	3961.9	3941.3	3415.2	2563.6	1163.3	138.4
40°	5310.2	5284.1	4934.0	4607.3	4459.3	4233.2	4207.2	3727.6	2902.1	1433.9	163.7
42.5°	5663.7	5629.4	5289.6	4923.1	4650.4	4408.6	4391.5	3985.2	3203.5	1731.2	201.4
45°	6063.1	5999.4	5701.4	5372.5	4958.0	4590.1	4570.9	4214.7	3512.5	2050.5	247.3
47.5°	6489.9	6434.4	6193.3	5962.4	5485.5	4889.5	4848.4	4410.0	3819.4	2419.1	305.6
50°	6924.2	6925.6	6744.8	6633.8	6130.2	5375.9	5317.7	4697.0	4142.1	2813.7	391.9
52.5°	7429.8	7442.9	7440.1	7357.9	6967.4	6171.3	6093.2	5132.7	4516.8	3274.1	511.1
55°	7641.5	7664.8	7816.2	7998.5	7892.3	7179.8	7096.2	5884.3	5013.5	3787.2	687.8
57.5°	7468.2	7494.2	7703.2	8022.5	8266.3	8062.9	8053.3	6862.6	5667.8	4409.3	976.9
59°	7262.0	7258.6	7473.0	7811.4	8140.3	8272.5	8286.2	7524.4	6237.8	4845.7	1226.3
60°	7125.0	7127.7	7270.2	7617.6	7967.0	8196.5	8249.9	7914.2	6570.7	5159.4	1440.1
62.5°	6596.1	6627.6	6740.6	7063.3	7394.9	7651.1	7742.2	8261.6	7523.7	5900.7	2183.4
65°	6021.3	6023.3	6184.3	6460.4	6778.3	6958.5	7016.0	7721.0	8160.2	6655.7	3158.3
67.5°	4995.7	5037.5	5220.4	5667.8	6087.7	6315.9	6359.7	6720.8	7896.4	7147.6	3646.8
70°	3496.0	3550.8	3811.9	4392.1	5017.6	5392.4	5389.6	5586.9	6949.6	6928.4	3091.8
72.5°	1745.6	1840.2	2053.2	2674.6	3432.3	4020.8	4144.8	4494.2	5582.8	5754.8	2306.7
75°	771.4	776.9	898.2	1211.2	1705.9	2453.3	2564.3	3567.3	4283.2	3999.6	1666.1
77.5°	448.7	452.8	474.8	544.0	691.3	1202.3	1327.0	2339.6	3026.7	2324.5	1086.6
80°	163.1	167.2	166.5	206.2	302.8	473.4	527.5	1133.8	2019.0	1224.3	569.3
82.5°	100.0	100.0	96.6	97.3	110.3	181.5	198.7	483.0	983.1	602.9	163.1
85°	49.3	52.1	55.5	62.3	74.0	89.7	95.2	138.4	330.9	145.9	39.1
87.5°	29.5	30.1	32.9	39.7	49.3	64.4	68.5	93.9	118.5	98.0	9.6
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-SA2D-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2.5°	65.1	64.4	61.0	58.2	55.5	52.8	50.7	48.6	48.6	49.3	48.6
5°	65.1	62.3	56.9	52.1	48.0	44.5	41.1	38.4	37.7	37.7	38.4
7.5°	64.4	61.0	53.4	47.3	41.8	37.0	33.6	30.1	29.5	30.1	29.5
10°	63.7	59.6	50.7	43.2	35.6	30.8	26.0	22.6	22.6	22.6	23.3
12.5°	63.7	57.5	48.0	39.1	30.8	25.3	20.6	17.1	16.4	16.4	16.4
15°	63.0	56.2	45.2	34.3	26.0	19.2	15.1	11.6	11.6	11.6	11.6
17.5°	61.7	54.1	41.8	30.1	20.6	14.4	10.3	6.9	6.9	8.2	8.2
20°	60.3	52.1	37.7	24.7	17.1	11.0	6.9	4.1	4.1	6.2	6.9
22.5°	61.0	52.1	34.9	21.9	13.7	8.2	5.5	3.4	2.7	4.8	6.2
25°	61.7	50.7	31.5	19.2	10.3	6.2	4.1	1.4	0.7	1.4	2.1
27.5°	61.7	49.3	27.4	15.1	7.5	4.8	2.1	0.0	0.0	0.0	0.0
30°	61.0	47.3	24.0	12.3	5.5	2.7	0.7	0.0	0.0	0.0	0.0
32.5°	60.3	45.2	21.9	9.6	4.8	1.4	0.0	0.0	0.0	0.0	0.0
35°	61.0	42.5	19.2	7.5	2.7	0.0	0.0	0.0	0.0	0.0	1.4
37.5°	63.0	39.7	16.4	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	65.8	37.7	13.7	4.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	71.2	37.7	12.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	78.1	37.7	10.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	87.0	38.4	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	98.0	39.7	8.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	106.2	38.4	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	120.6	37.0	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	139.8	34.9	6.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	158.9	32.2	6.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	180.9	30.8	6.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	298.7	27.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	576.8	26.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	932.4	26.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	980.4	26.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	652.2	21.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	349.4	19.2	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	188.4	17.8	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.9	13.0	3.4	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	8.9	4.1	3.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0
85°	15.8	6.9	5.5	4.8	3.4	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	6.9	6.2	5.5	4.8	3.4	0.7	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

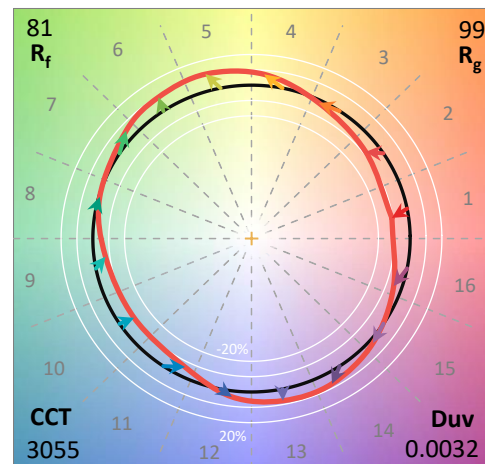
Test Information

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

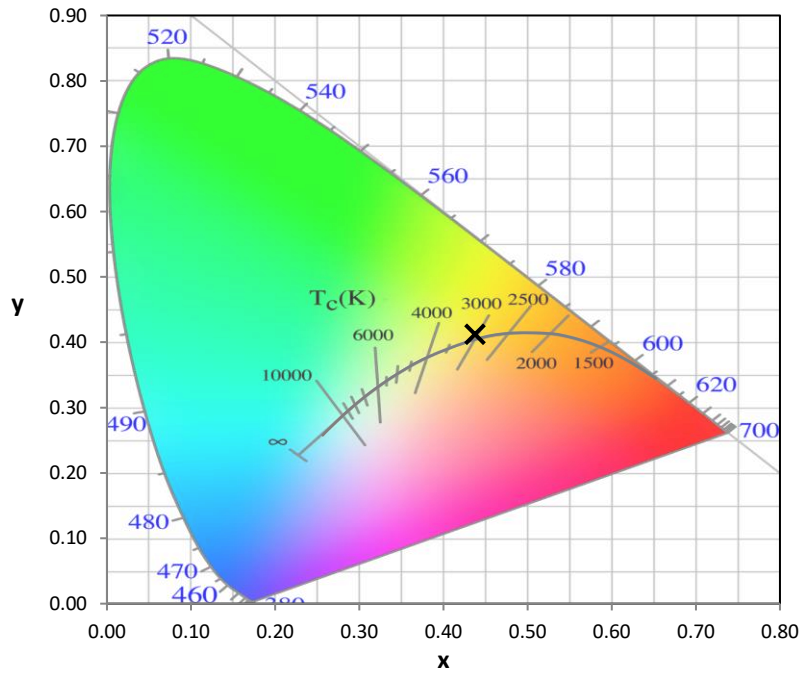
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

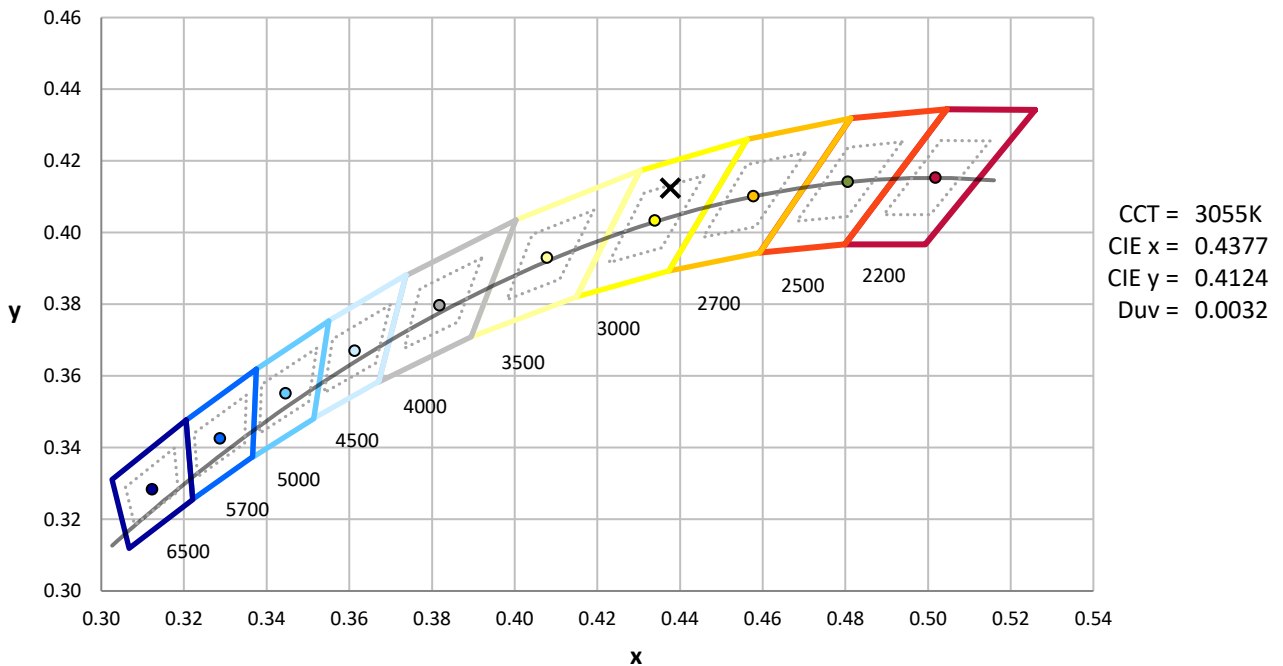
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 $\text{W}^{\wedge}/\text{nm}$	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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Scotopic Flux vs. Wavelength



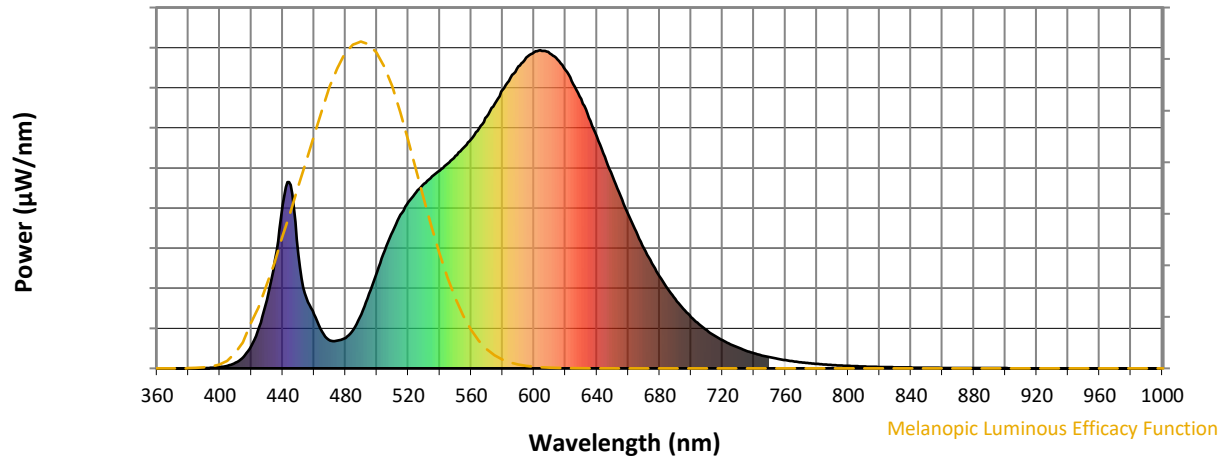
Scotopic Lumens: NR

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

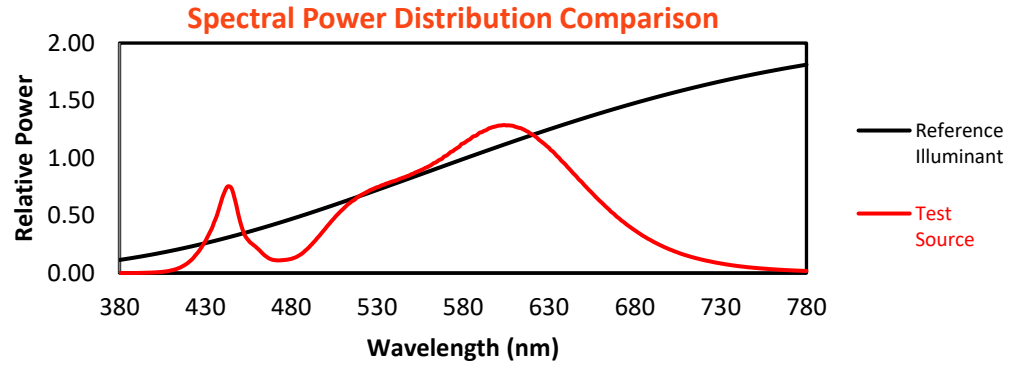
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938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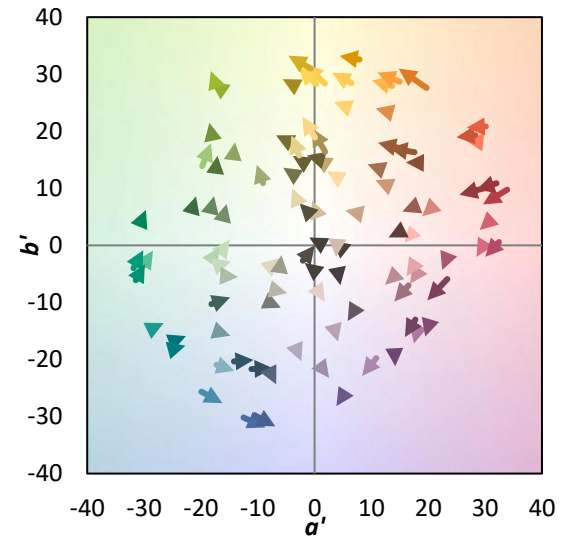
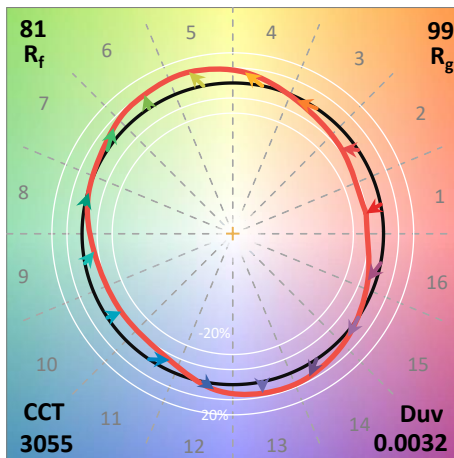
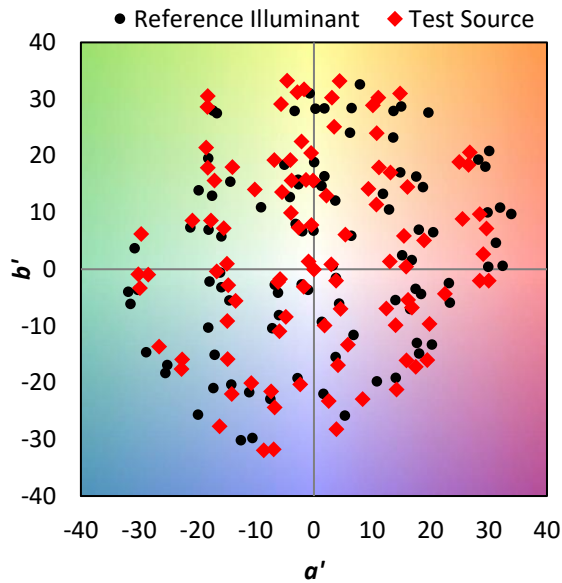
TM-30-18

Summary

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



Color Vector Graphics

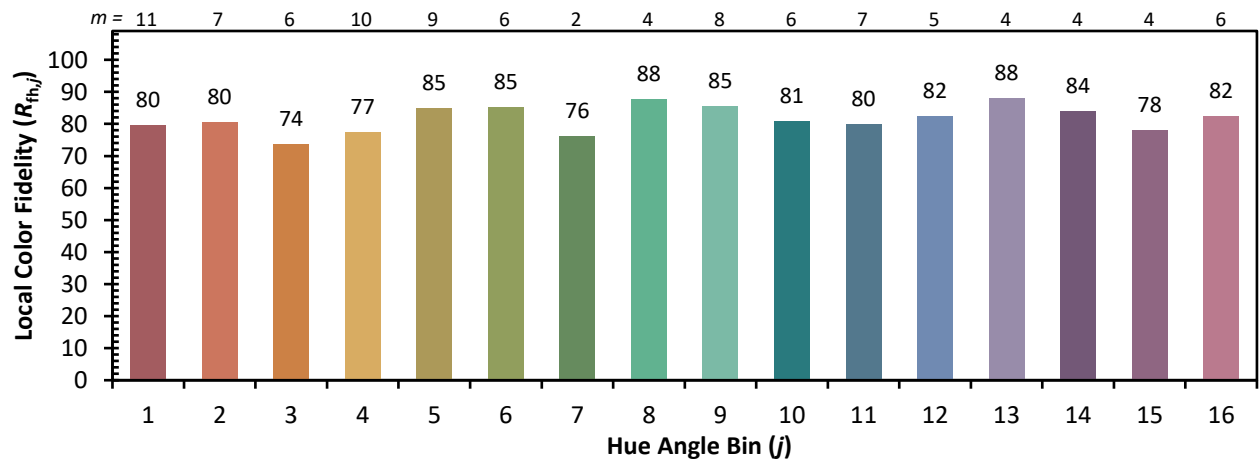
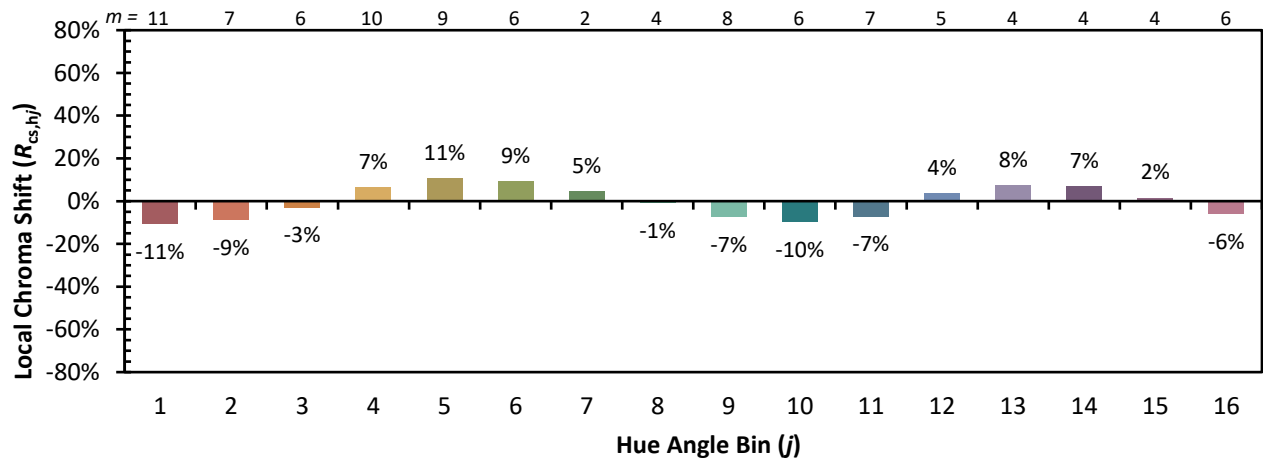


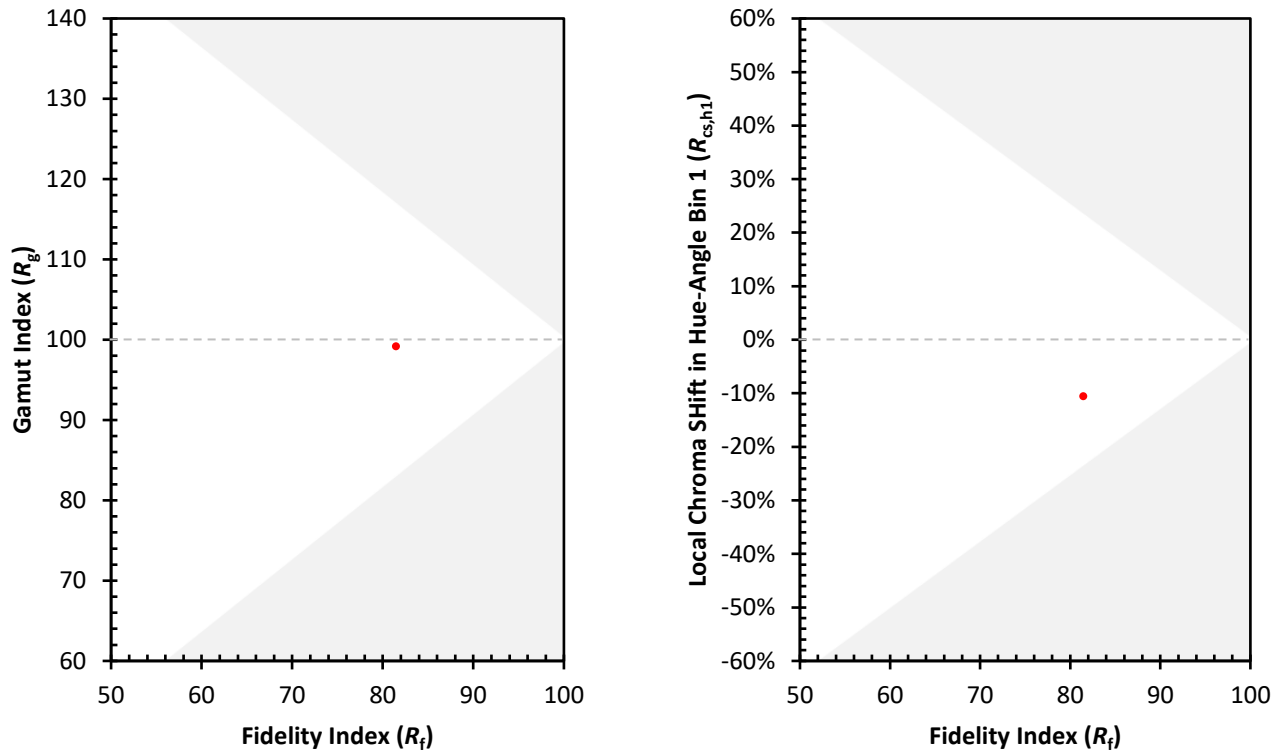
Individual Sample Fidelity Index ($R_{f,i}$)

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)