

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: STREETWORKS

Report Number: P1065917

Luminaire Tested: **NVN-SA5A-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065917
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA5A-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14723.5 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 137.4
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

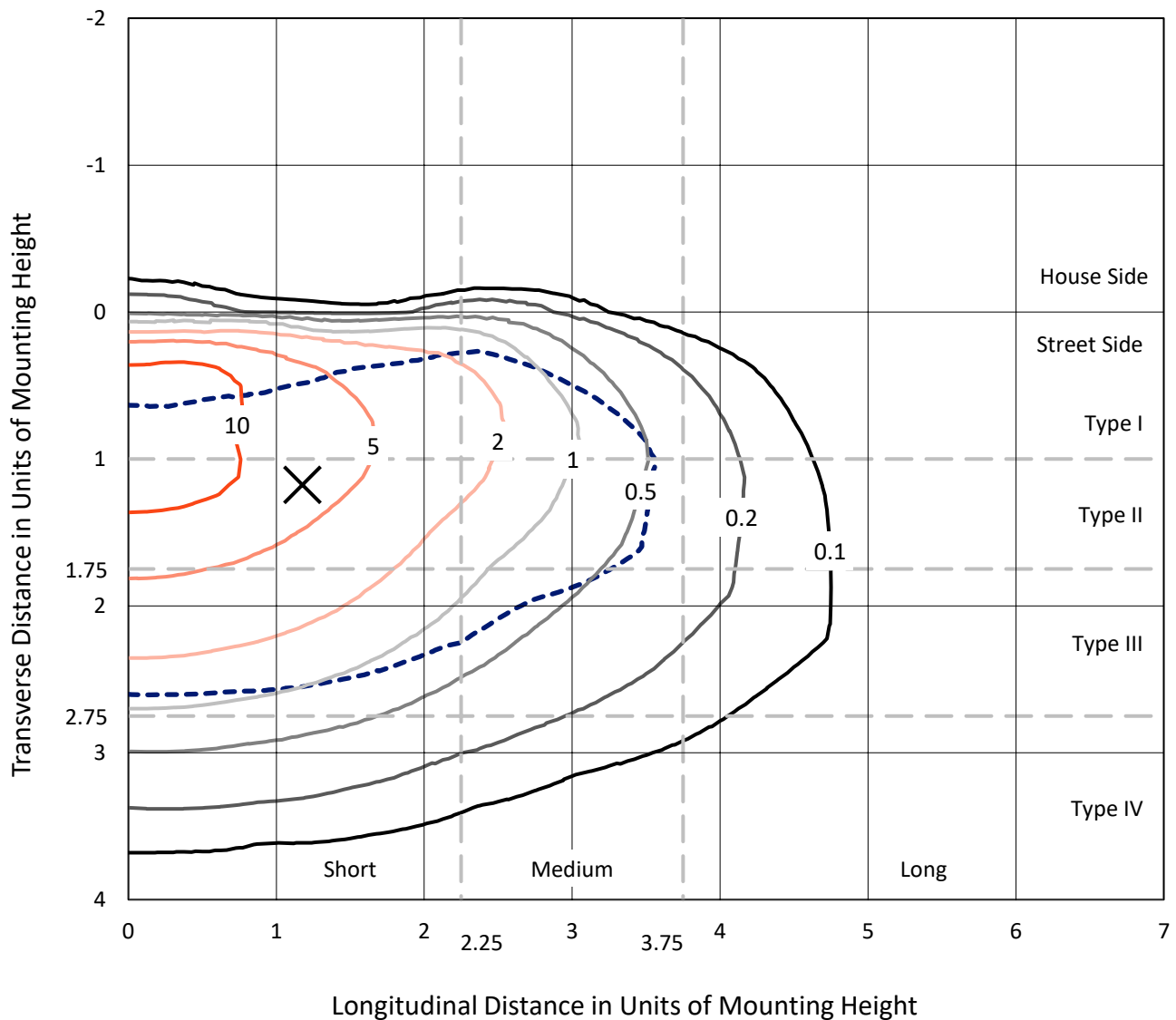


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CATALOG NUMBER: NVN-SA5A-830-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

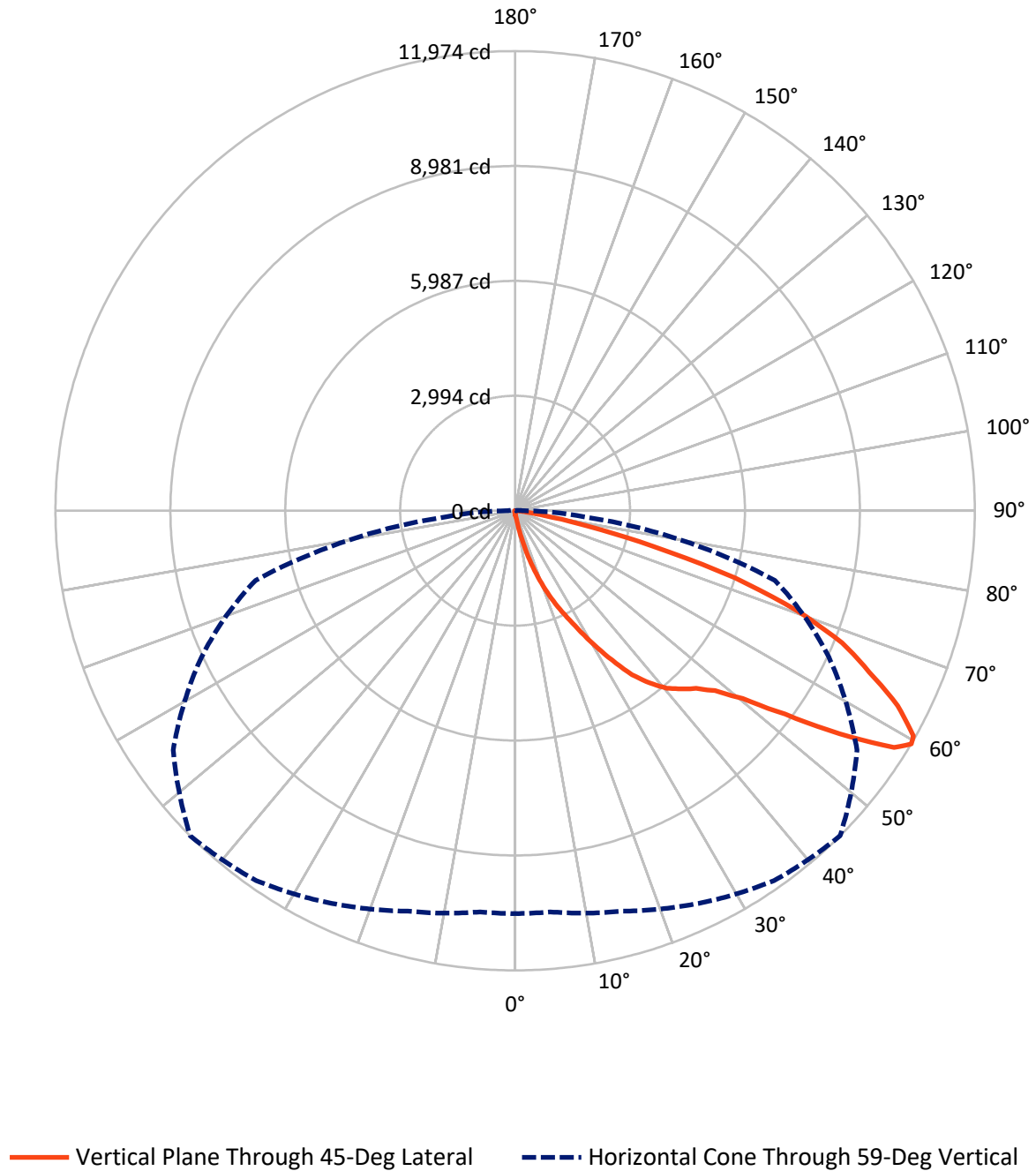


Based on 15 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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CATALOG NUMBER: NVN-SA5A-830-U-T3BC

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	52.3	0.0	52.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	14671.2	0.0	14671.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	14723.5	0.0	14723.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.1
10°-20°	162.7	1.1
20°-30°	584.7	4.0
30°-40°	1358.8	9.2
40°-50°	2315.9	15.7
50°-60°	3816.0	25.9
60°-70°	4412.2	30.0
70°-80°	1895.6	12.9
80°-90°	163.8	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°	14723.5	100.0
0°-180°	14723.5	100.0



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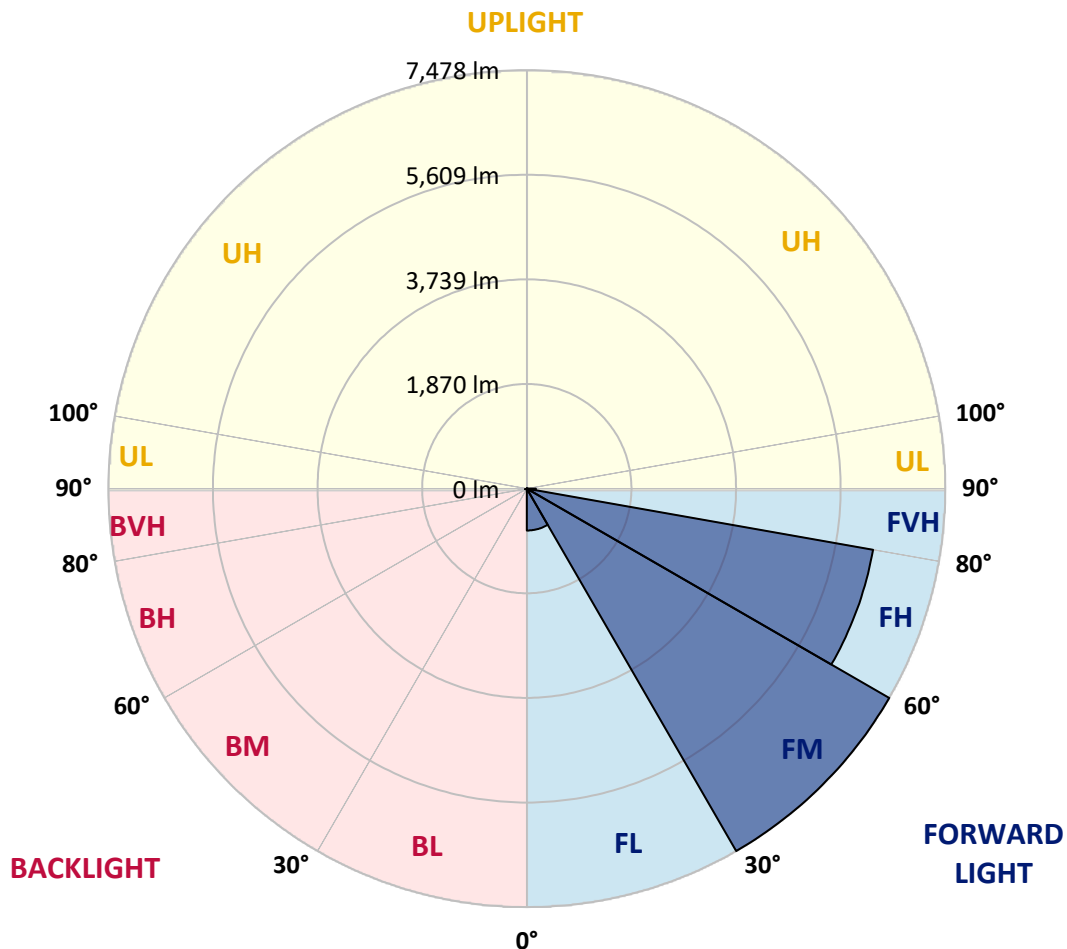
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	748.3	5.1			
FM	(30°-60°)	7478.1	50.8			
FH	(60°-80°)	6283.2	42.7			G3/7500
FVH	(80°-90°)	161.7	1.1			G2/225
BL	(0°-30°)	12.9	0.1	B0/110		
BM	(30°-60°)	12.6	0.1	B0/220		
BH	(60°-80°)	24.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
2.5°	120.8	120.8	117.8	113.9	112.9	109.9	109.9	106.9	103.0	100.0	96.0
5°	175.2	174.2	166.3	156.4	143.6	135.6	135.6	124.7	114.8	105.9	98.0
7.5°	383.1	374.2	345.5	298.0	235.6	194.0	191.1	155.4	131.7	113.9	99.0
10°	879.1	848.4	807.8	694.0	512.8	358.4	351.5	226.7	157.4	122.8	101.0
12.5°	1440.5	1465.2	1384.0	1204.8	993.0	738.5	689.0	382.1	207.9	134.6	103.0
15°	1951.3	1945.4	1899.8	1753.3	1508.8	1170.2	1139.5	664.3	298.0	153.5	104.9
17.5°	2333.4	2326.5	2283.0	2188.9	2000.8	1662.2	1635.5	1059.3	467.3	180.2	106.9
20°	2736.4	2727.5	2666.1	2590.9	2426.5	2138.4	2106.7	1500.9	731.6	223.7	106.9
22.5°	3219.5	3202.7	3137.3	3009.6	2836.4	2585.9	2557.2	1952.3	1059.3	295.0	111.9
25°	3803.6	3774.9	3684.8	3570.0	3361.1	3028.4	2997.7	2455.2	1454.3	402.9	116.8
27.5°	4469.9	4474.8	4353.1	4159.0	3878.9	3539.3	3481.9	2905.7	1863.2	557.4	122.8
30°	5260.9	5211.4	5040.1	4814.4	4542.2	4109.5	4054.1	3354.1	2322.6	785.1	132.7
32.5°	6001.4	5948.0	5717.3	5433.2	5141.1	4684.7	4639.2	3858.1	2740.3	1054.4	150.5
35°	6637.0	6599.4	6276.7	5930.1	5670.8	5262.9	5249.0	4420.4	3231.4	1344.4	170.3
37.5°	7196.4	7128.1	6713.2	6353.9	6090.5	5725.2	5695.5	4935.2	3704.6	1681.0	200.0
40°	7673.6	7635.9	7130.0	6657.8	6444.0	6117.3	6079.6	5386.6	4193.7	2072.1	236.6
42.5°	8184.4	8134.9	7643.9	7114.2	6720.2	6370.7	6346.0	5758.9	4629.3	2501.8	291.1
45°	8761.6	8669.5	8238.8	7763.6	7164.7	6633.1	6605.3	6090.5	5075.8	2963.1	357.4
47.5°	9378.3	9298.2	8949.7	8616.0	7927.0	7065.7	7006.3	6372.7	5519.3	3495.7	441.5
50°	10006.0	10008.0	9746.6	9586.2	8858.6	7768.6	7684.4	6787.5	5985.6	4066.0	566.3
52.5°	10736.6	10755.4	10751.5	10632.7	10068.4	8918.0	8805.1	7417.1	6527.1	4731.2	738.5
55°	11042.6	11076.2	11295.0	11558.3	11404.9	10375.3	10254.5	8503.2	7244.9	5472.8	994.0
57.5°	10792.1	10829.7	11131.7	11593.0	11945.4	11651.4	11637.5	9916.9	8190.3	6371.7	1411.8
59°	10494.1	10489.1	10799.0	11288.1	11763.3	11954.3	11974.1	10873.3	9014.0	7002.3	1772.1
60°	10296.1	10300.0	10506.0	11007.9	11512.8	11844.5	11921.7	11436.6	9495.2	7455.8	2081.0
62.5°	9531.8	9577.3	9740.7	10207.0	10686.1	11056.4	11188.1	11938.5	10872.3	8526.9	3155.2
65°	8701.2	8704.2	8936.8	9335.8	9795.1	10055.5	10138.7	11157.4	11792.0	9617.9	4563.9
67.5°	7219.1	7279.5	7543.9	8190.3	8797.2	9126.9	9190.2	9712.0	11410.8	10328.8	5269.8
70°	5052.0	5131.2	5508.4	6346.9	7250.8	7792.4	7788.4	8073.5	10042.6	10012.0	4467.9
72.5°	2522.5	2659.2	2967.1	3865.0	4959.9	5810.4	5989.5	6494.5	8067.6	8316.1	3333.4
75°	1114.7	1122.7	1297.9	1750.3	2465.1	3545.2	3705.6	5155.0	6189.5	5779.7	2407.7
77.5°	648.5	654.4	686.1	786.1	998.9	1737.5	1917.6	3380.9	4373.9	3359.1	1570.2
80°	235.6	241.6	240.6	298.0	437.6	684.1	762.3	1638.5	2917.6	1769.1	822.7
82.5°	144.5	144.5	139.6	140.6	159.4	262.4	287.1	698.0	1420.7	871.2	235.6
85°	71.3	75.2	80.2	90.1	106.9	129.7	137.6	200.0	478.2	210.9	56.4
87.5°	42.6	43.6	47.5	57.4	71.3	93.1	99.0	135.6	171.3	141.6	13.9
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: NVN-SA5A-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
2.5°	94.1	93.1	88.1	84.2	80.2	76.2	73.3	70.3	70.3	71.3	70.3
5°	94.1	90.1	82.2	75.2	69.3	64.4	59.4	55.4	54.5	54.5	55.4
7.5°	93.1	88.1	77.2	68.3	60.4	53.5	48.5	43.6	42.6	43.6	42.6
10°	92.1	86.1	73.3	62.4	51.5	44.6	37.6	32.7	32.7	32.7	33.7
12.5°	92.1	83.2	69.3	56.4	44.6	36.6	29.7	24.8	23.8	23.8	23.8
15°	91.1	81.2	65.3	49.5	37.6	27.7	21.8	16.8	16.8	16.8	16.8
17.5°	89.1	78.2	60.4	43.6	29.7	20.8	14.9	9.9	9.9	11.9	11.9
20°	87.1	75.2	54.5	35.6	24.8	15.8	9.9	5.9	5.9	8.9	9.9
22.5°	88.1	75.2	50.5	31.7	19.8	11.9	7.9	5.0	4.0	6.9	8.9
25°	89.1	73.3	45.5	27.7	14.9	8.9	5.9	2.0	1.0	2.0	3.0
27.5°	89.1	71.3	39.6	21.8	10.9	6.9	3.0	0.0	0.0	0.0	0.0
30°	88.1	68.3	34.7	17.8	7.9	4.0	1.0	0.0	0.0	0.0	0.0
32.5°	87.1	65.3	31.7	13.9	6.9	2.0	0.0	0.0	0.0	0.0	0.0
35°	88.1	61.4	27.7	10.9	4.0	0.0	0.0	0.0	0.0	0.0	2.0
37.5°	91.1	57.4	23.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	95.0	54.5	19.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	103.0	54.5	17.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	112.9	54.5	14.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	125.7	55.4	12.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	141.6	57.4	11.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	153.5	55.4	10.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	174.2	53.5	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	202.0	50.5	9.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	229.7	46.5	9.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	261.4	44.6	8.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	431.6	39.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	833.6	37.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1347.4	37.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1416.7	37.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	942.5	30.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	504.9	27.7	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	272.3	25.7	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.8	18.8	5.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.5	12.9	5.9	5.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	9.9	7.9	6.9	5.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	9.9	8.9	7.9	6.9	5.0	1.0	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

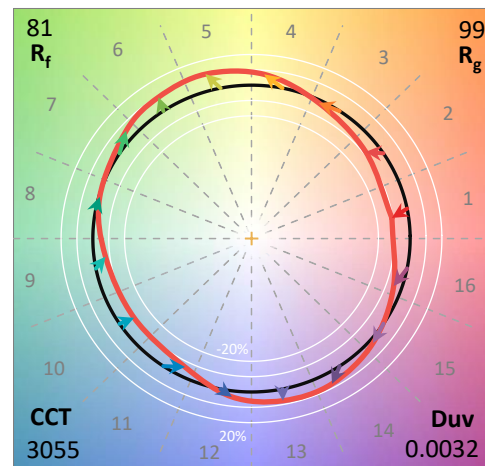
Test Information

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

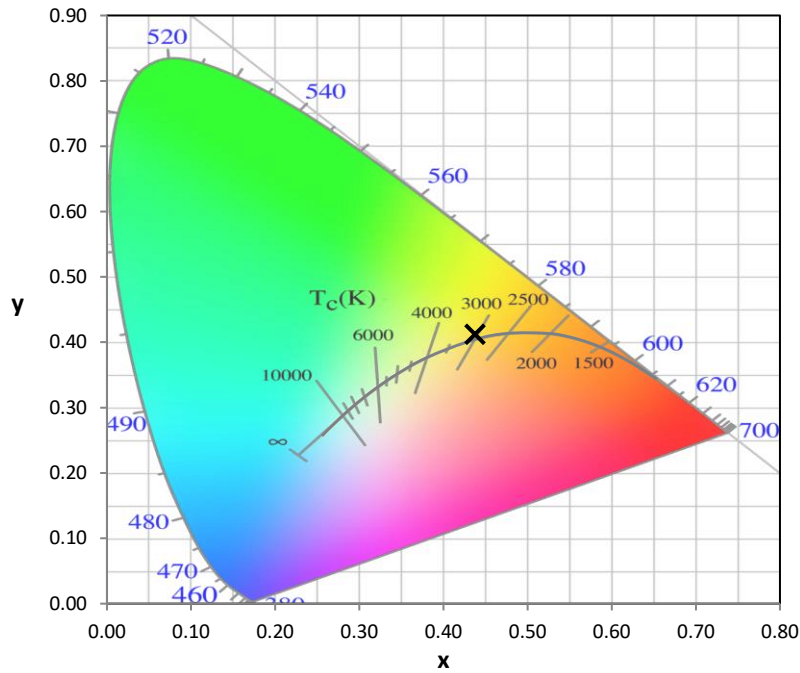
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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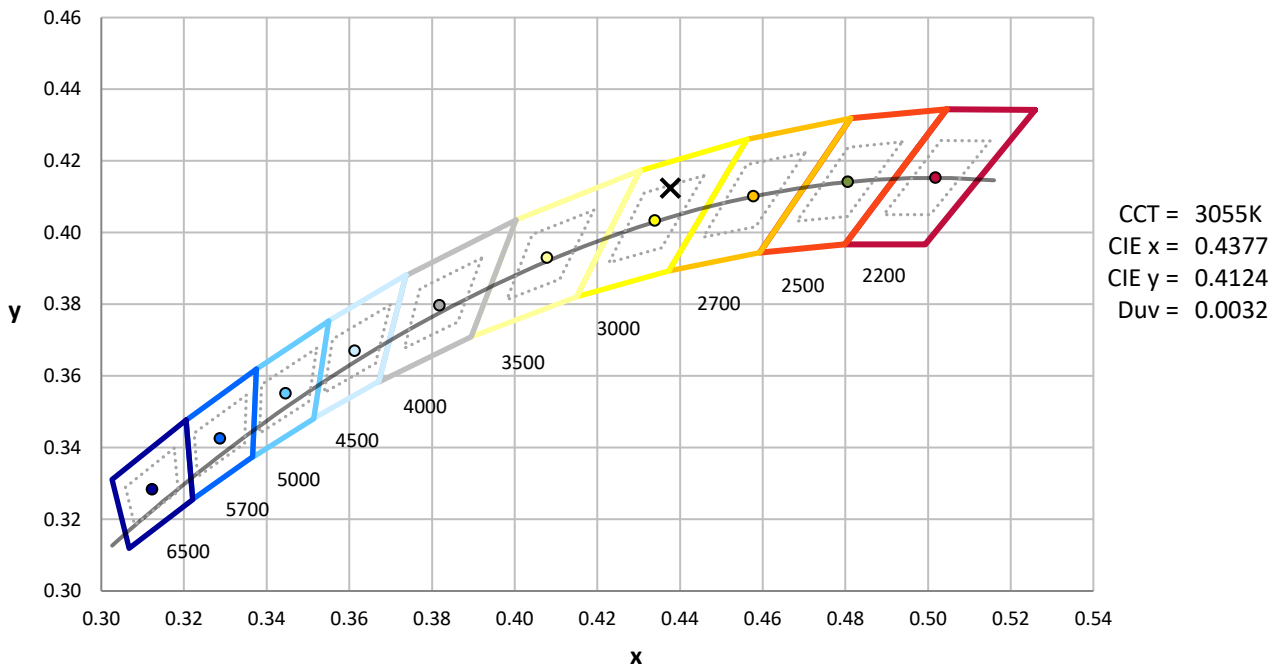
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



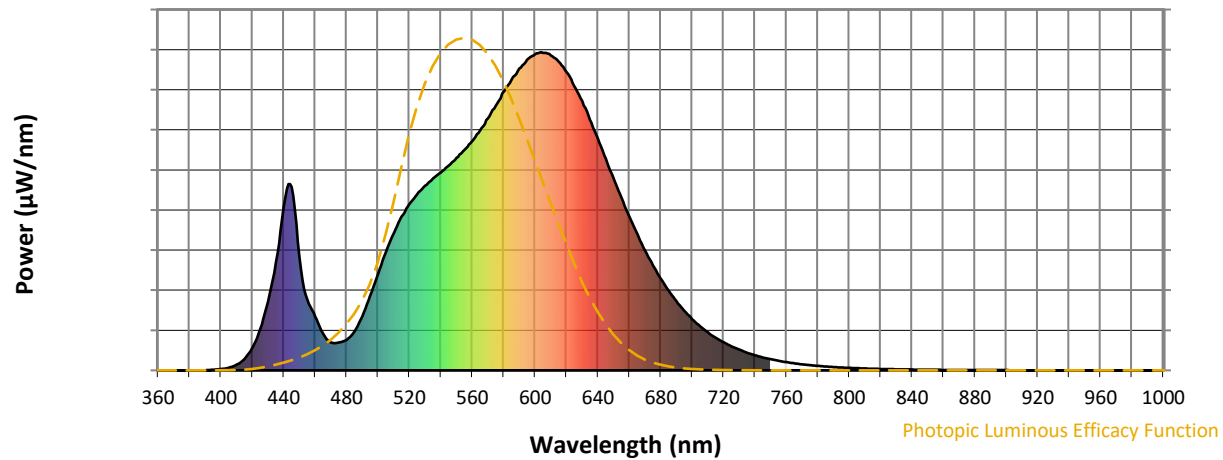
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

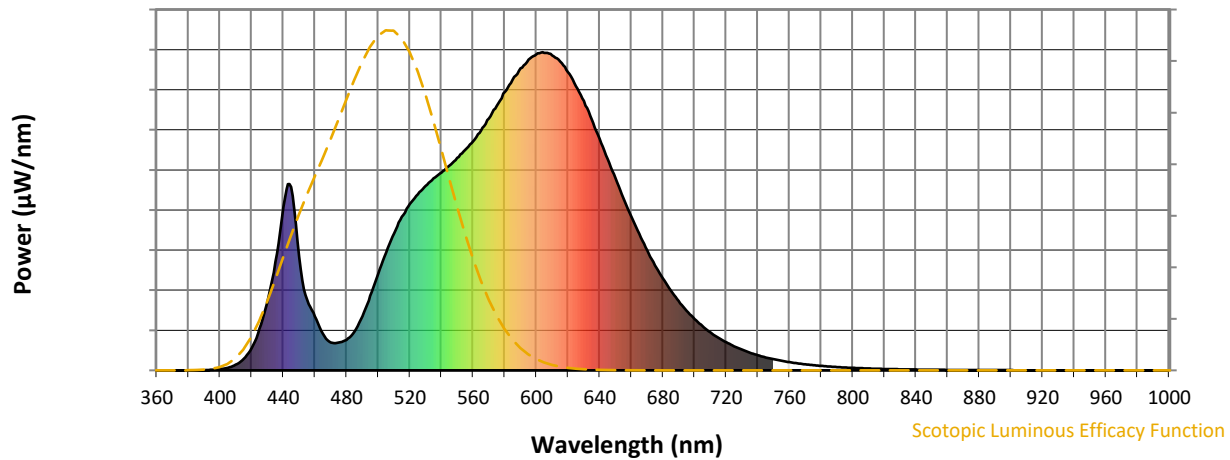


Photopic Lumens: NR

λ (nm)	Power W ^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			

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Scotopic Flux vs. Wavelength



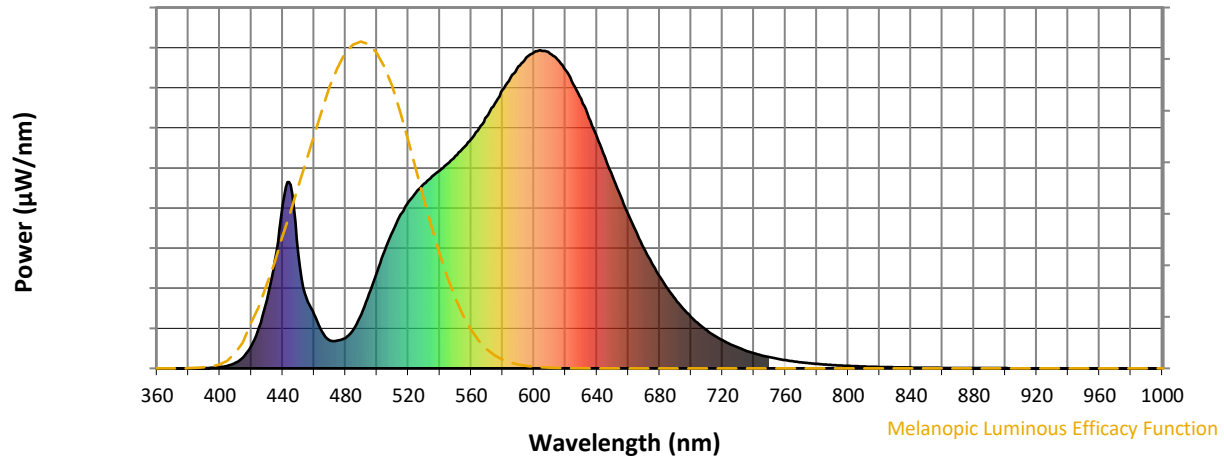
Scotopic Lumens: NR

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

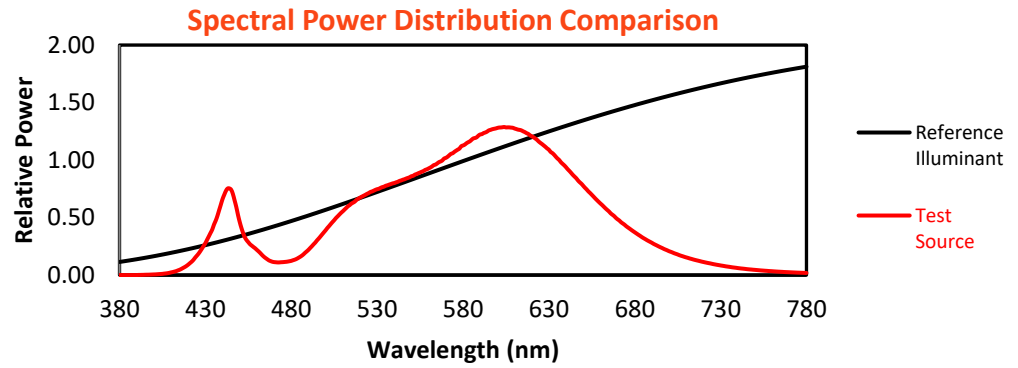
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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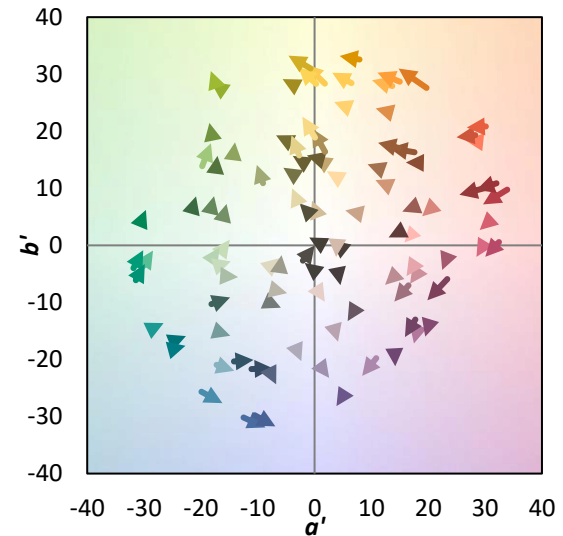
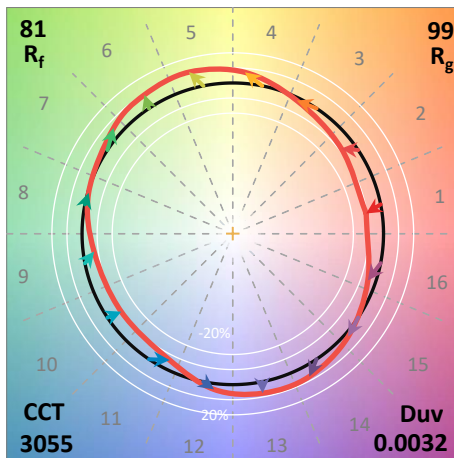
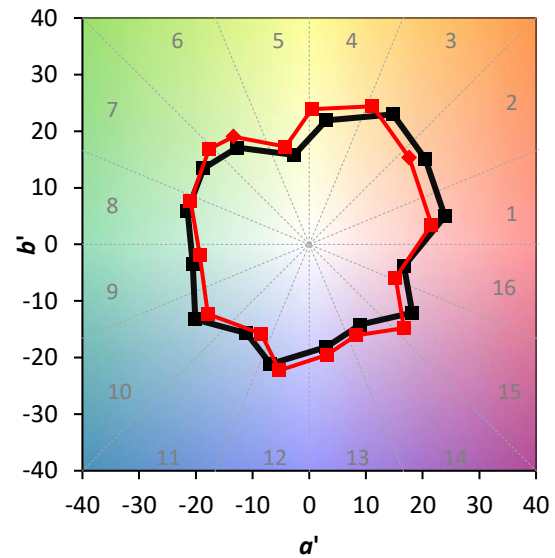
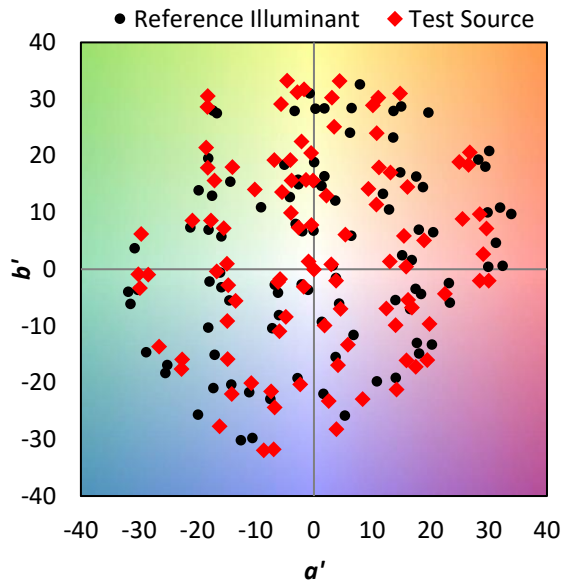
TM-30-18

Summary

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

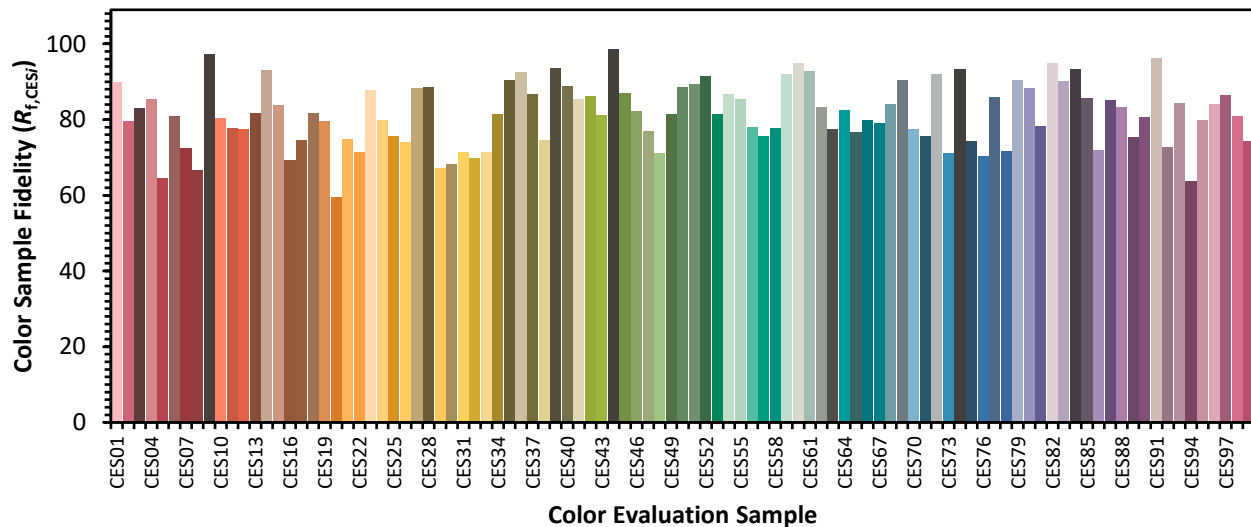


Color Vector Graphics

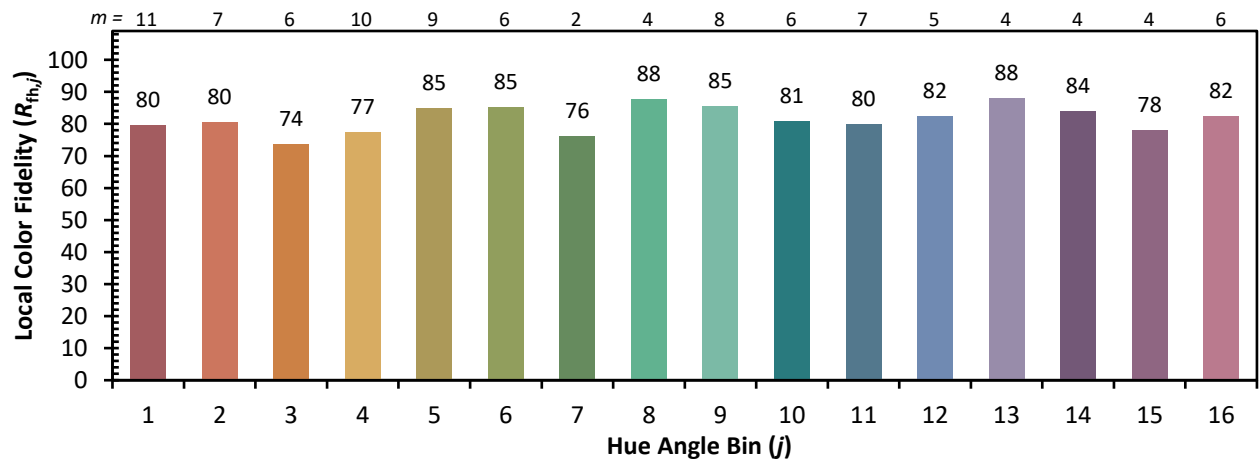
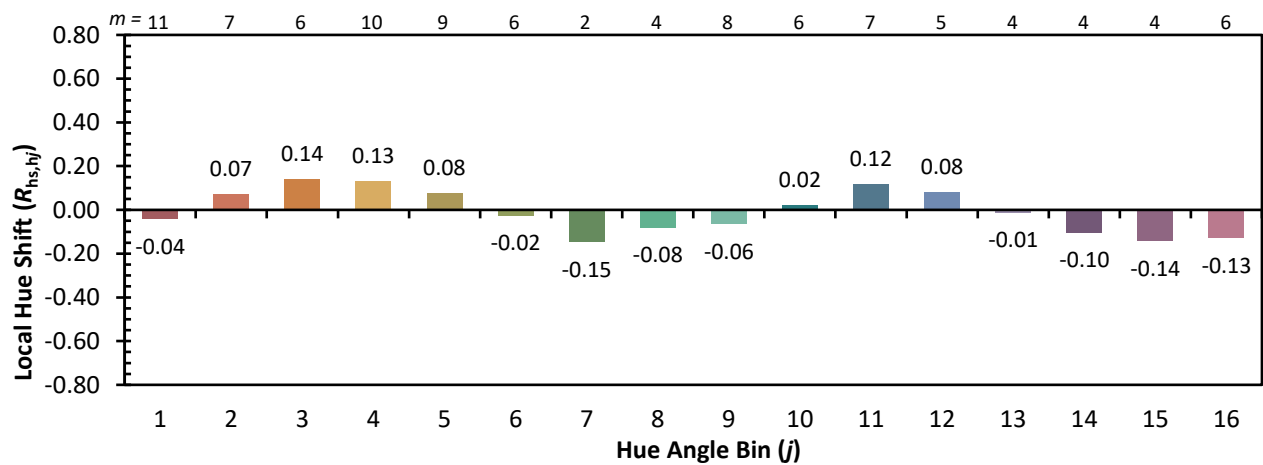
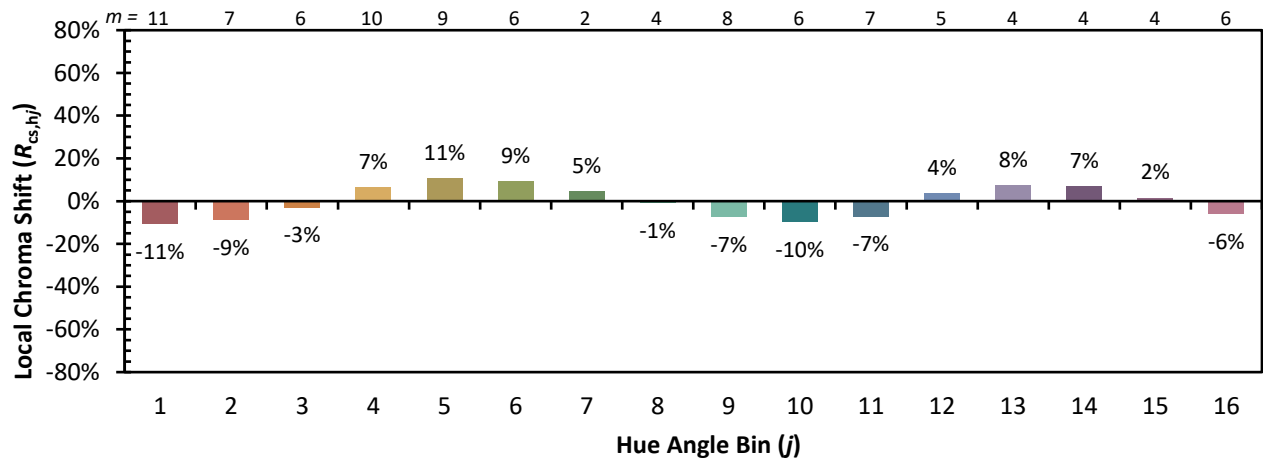


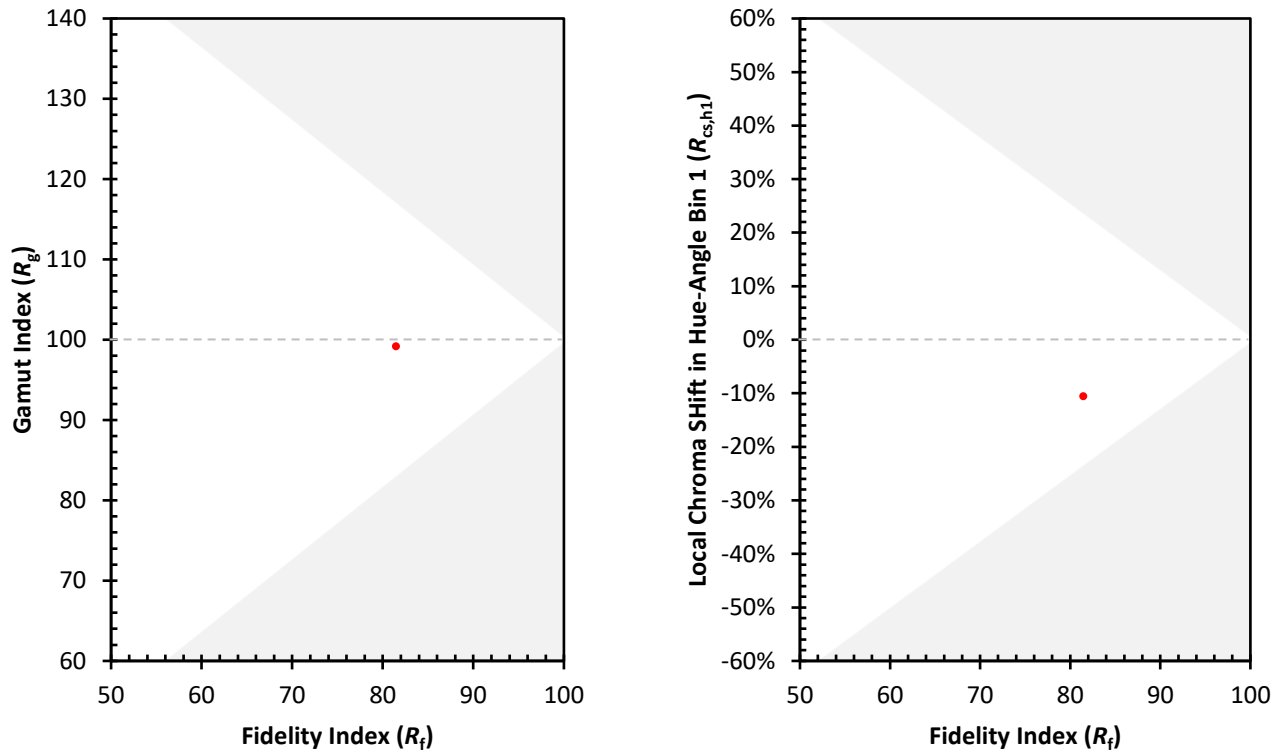
Individual Sample Fidelity Index ($R_{f,i}$)

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)