

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: P1067335

Luminaire Tested: **NAV-SA5C-827-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067335
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-827-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
80CRI 2700K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19978.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 236
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

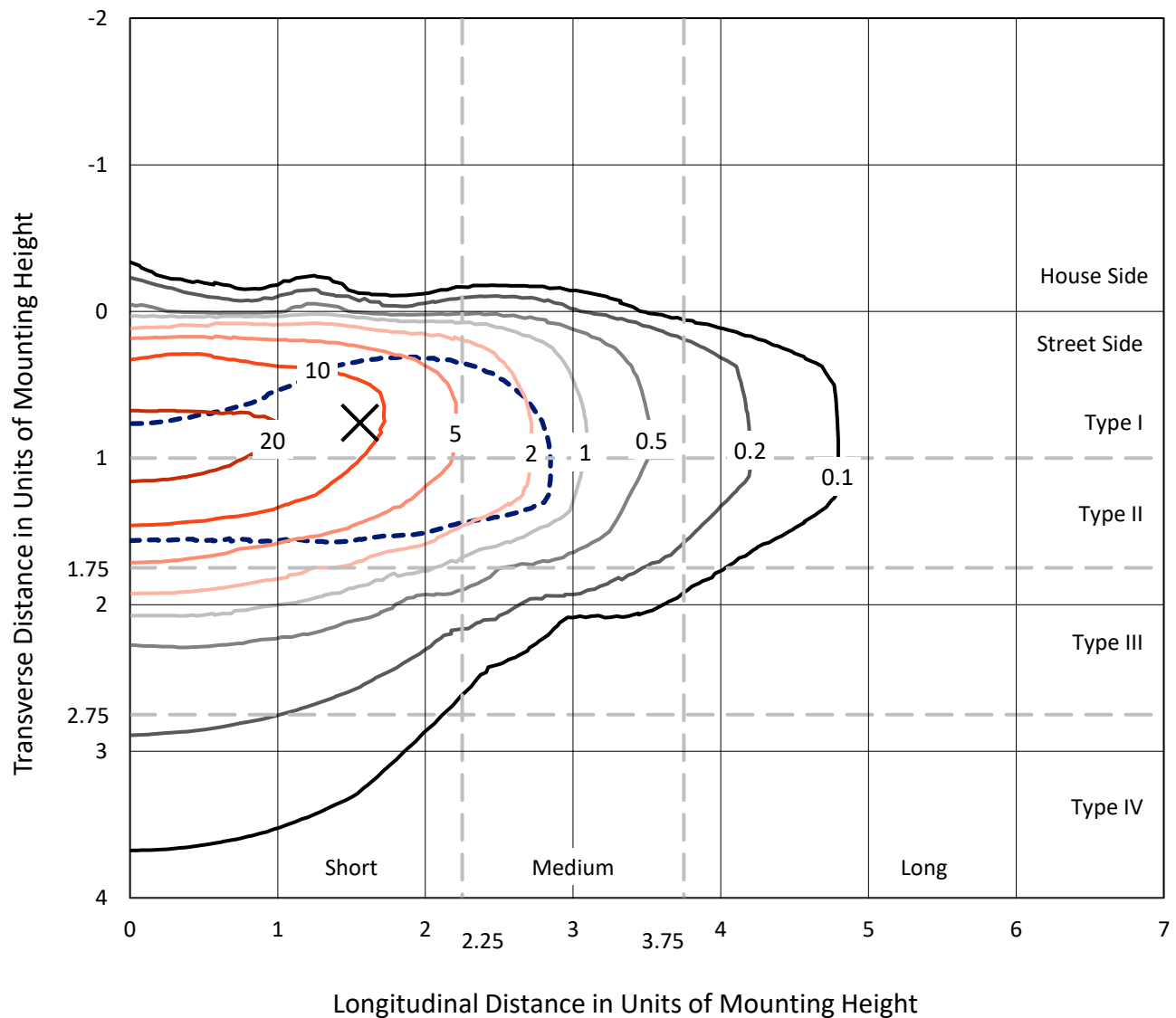


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

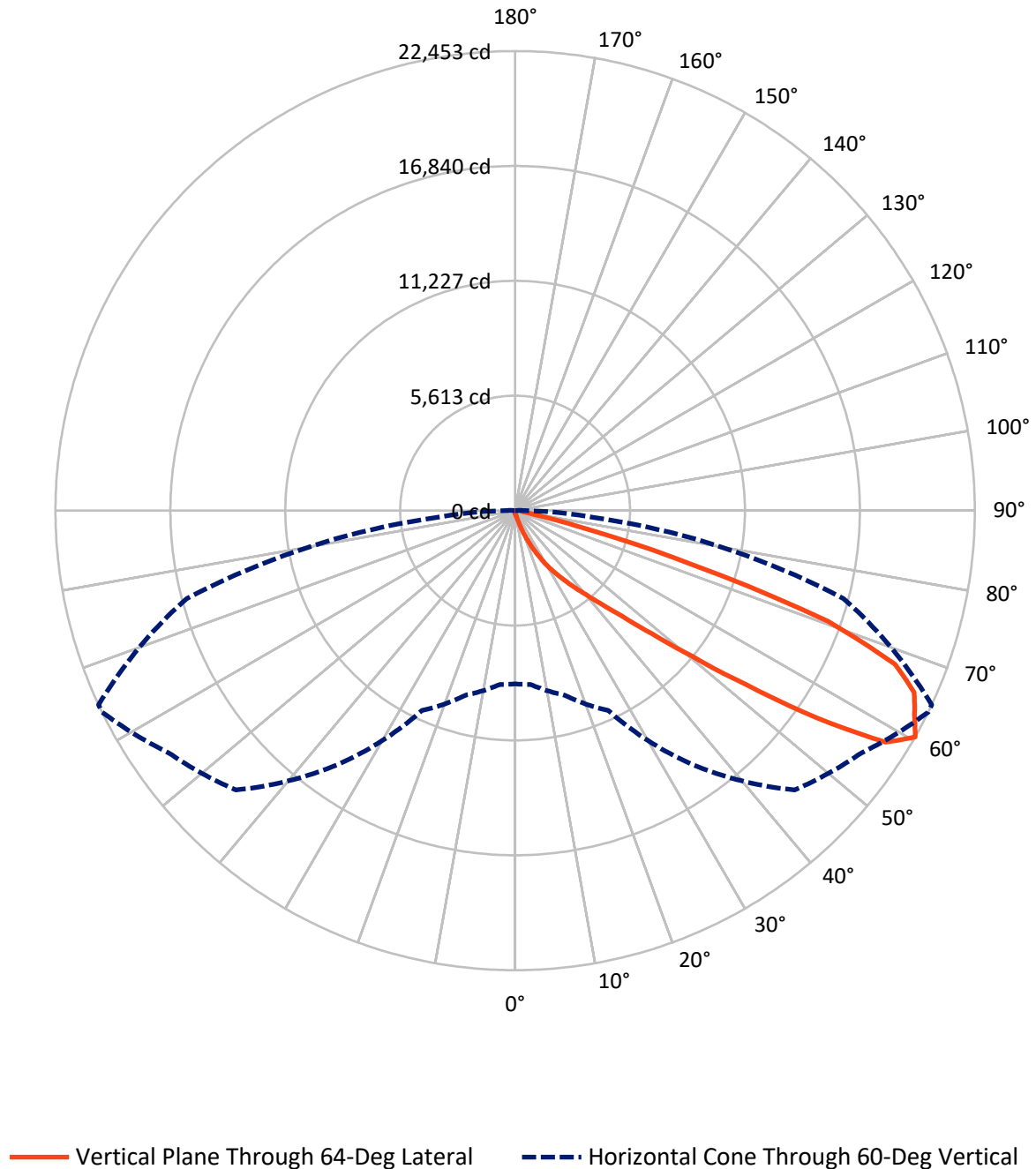


Based on 15 foot mounting height. Maximum calculated value = 28.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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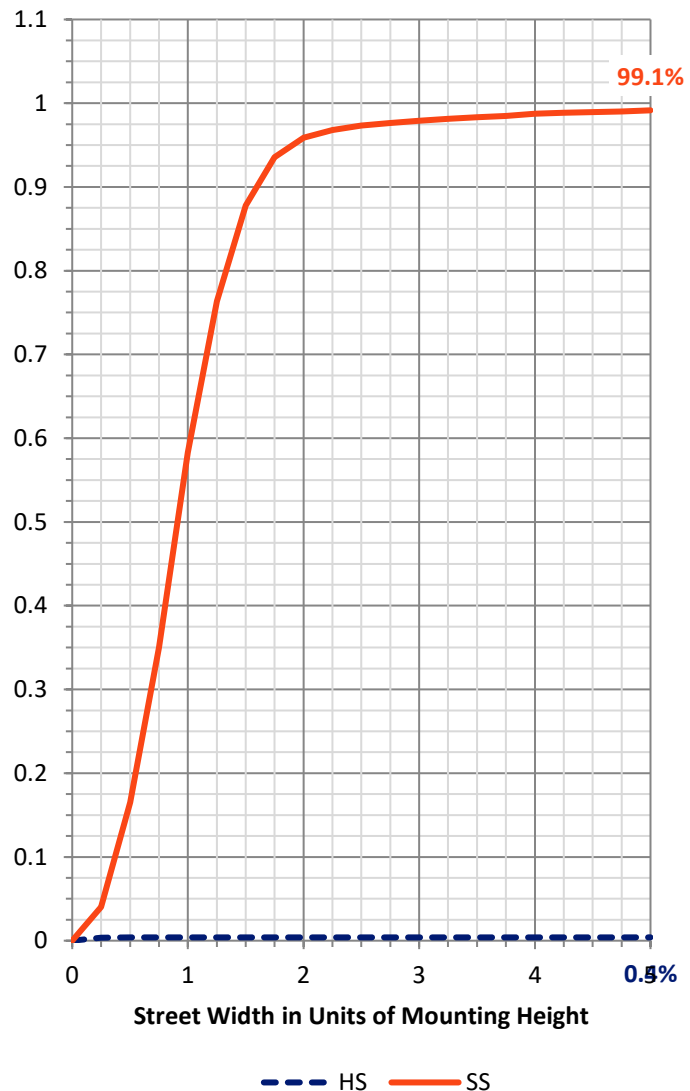
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.0	0.0	81.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	19897.1	0.0	19897.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	19978.1	0.0	19978.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.1
10°-20°	196.3	1.0
20°-30°	652.0	3.3
30°-40°	1739.8	8.7
40°-50°	4422.2	22.1
50°-60°	6446.6	32.3
60°-70°	4979.4	24.9
70°-80°	1367.4	6.8
80°-90°	154.4	0.8
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°	19978.1	100.0
0°-180°	19978.1	100.0



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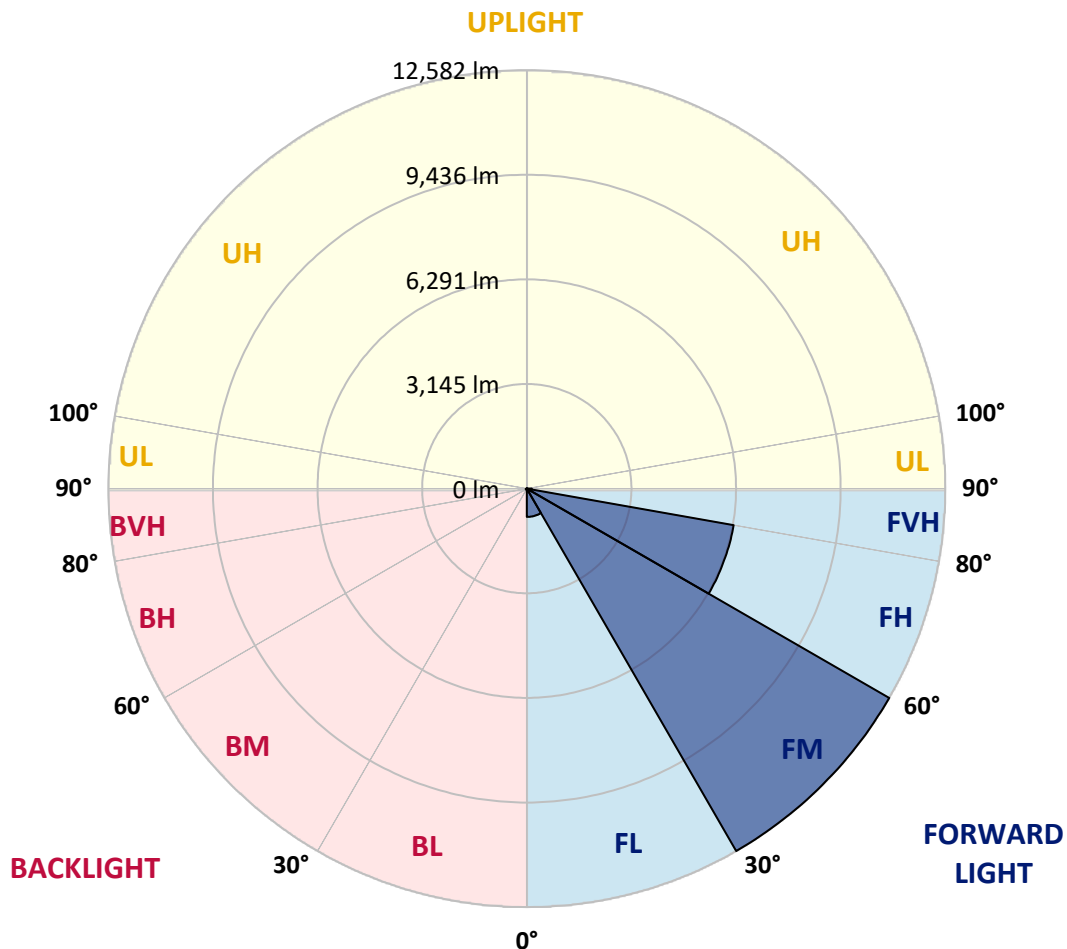
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.1	4.3			
FM	(30°-60°)	12581.8	63.0			
FH	(60°-80°)	6314.5	31.6			G3/7500
FVH	(80°-90°)	150.7	0.8			G2/225
BL	(0°-30°)	18.2	0.1	B0/110		
BM	(30°-60°)	26.8	0.1	B0/220		
BH	(60°-80°)	32.3	0.2	B0/110		G0/110
BVH	(80°-90°)	3.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	176.0	176.0	176.0	170.5	165.0	165.0	159.5	154.0	154.0	143.0	137.5
5°	269.5	269.5	258.5	247.5	231.0	209.0	187.0	170.5	170.5	154.0	143.0
7.5°	527.9	544.4	494.9	434.4	352.0	297.0	236.5	198.0	192.5	165.0	143.0
10°	1143.8	1132.8	1055.9	907.4	714.9	516.9	330.0	242.0	231.0	176.0	143.0
12.5°	1721.3	1737.8	1655.3	1490.3	1259.3	918.4	566.4	313.5	302.5	192.5	143.0
15°	2216.2	2216.2	2161.2	2078.7	1825.7	1468.3	912.9	467.4	428.9	209.0	137.5
17.5°	2557.1	2551.6	2529.7	2507.7	2359.2	1990.7	1396.8	747.9	659.9	247.5	137.5
20°	2942.1	2925.6	2953.1	2909.1	2793.6	2502.2	1908.2	1110.8	1028.4	313.5	137.5
22.5°	3343.5	3360.0	3382.0	3338.0	3211.6	2958.6	2447.2	1578.3	1490.3	434.4	143.0
25°	3855.0	3844.0	3893.5	3855.0	3695.5	3398.5	2953.1	2089.7	1963.2	604.9	154.0
27.5°	4481.9	4459.9	4492.9	4393.9	4184.9	3882.5	3404.0	2612.1	2463.7	868.9	176.0
30°	5312.3	5328.8	5180.3	5064.8	4767.8	4366.4	3904.5	3173.1	3019.1	1182.3	198.0
32.5°	6621.1	6505.6	6274.6	5807.2	5416.8	4905.3	4404.9	3662.5	3525.0	1583.8	231.0
35°	8661.3	8683.3	8177.4	7022.5	6175.7	5581.7	4954.8	4201.4	4102.4	2040.2	275.0
37.5°	11147.0	11086.5	10641.0	9183.7	7286.5	6423.1	5581.7	4789.8	4646.9	2535.2	330.0
40°	13962.6	13709.6	13451.1	12461.3	9601.7	7479.0	6373.6	5471.7	5361.8	3107.1	417.9
42.5°	16217.3	16151.3	16195.3	15782.8	13462.1	9277.2	7424.0	6307.6	6175.7	3816.5	571.9
45°	17328.1	17234.6	17498.6	17806.6	17212.6	13104.7	9117.7	7374.5	7198.5	4652.4	808.4
47.5°	17031.2	16965.2	17531.6	18136.5	18928.4	17542.6	11883.9	8969.3	8666.8	5724.7	1160.3
50°	15568.4	15573.9	16503.2	17630.6	18884.4	19791.8	15980.8	11152.5	10773.0	7149.0	1710.3
52.5°	14144.1	14188.0	15172.4	16816.7	18230.0	20055.7	19577.3	14094.6	13478.6	8826.3	2359.2
55°	12681.3	12703.3	13572.1	15887.3	17922.0	19269.3	21425.1	17883.5	17229.1	10916.0	2991.6
57.5°	11273.4	11273.4	11597.9	13654.6	17586.6	19197.9	21205.1	21348.1	20814.6	13302.7	3459.0
60°	8468.8	8523.8	9332.2	10773.0	15166.9	19302.3	20644.2	22453.4	22453.4	16613.2	3816.5
62.5°	4278.4	4360.9	5367.3	6769.6	10404.6	17861.5	20732.1	21898.0	21986.0	19533.3	4630.4
65°	2007.2	2100.7	2639.6	3629.5	5598.2	12571.3	19819.3	21425.1	21397.6	18977.9	6346.1
67.5°	1440.8	1468.3	1649.8	2117.2	3013.6	5510.2	15128.4	20011.7	20022.7	16123.8	7297.5
70°	1292.3	1292.3	1336.3	1473.8	1814.8	2463.7	7352.5	16206.3	16992.7	12450.3	6764.1
72.5°	1275.8	1264.8	1253.8	1259.3	1226.3	1237.3	2524.2	9150.7	10272.6	8710.8	5394.8
75°	1242.8	1242.8	1231.8	1193.3	978.9	797.4	868.9	3701.0	4278.4	5818.2	4003.4
77.5°	984.4	1083.4	1198.8	1127.3	896.4	599.4	505.9	1072.4	1352.8	3569.0	2903.6
80°	456.4	461.9	456.4	478.4	571.9	428.9	373.9	522.4	527.9	1979.7	1798.3
82.5°	330.0	335.5	319.0	286.0	253.0	231.0	308.0	384.9	412.4	907.4	670.9
85°	99.0	93.5	110.0	148.5	176.0	203.5	258.5	324.5	341.0	335.5	99.0
87.5°	44.0	44.0	55.0	77.0	104.5	154.0	225.5	297.0	302.5	346.5	27.5
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-SA5C-827-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	137.5	132.0	126.5	121.0	115.5	110.0	104.5	104.5	110.0	110.0	110.0
5°	132.0	126.5	115.5	104.5	99.0	93.5	88.0	88.0	93.5	93.5	93.5
7.5°	132.0	121.0	110.0	99.0	88.0	82.5	77.0	77.0	77.0	82.5	82.5
10°	132.0	121.0	104.5	88.0	77.0	71.5	66.0	60.5	66.0	66.0	66.0
12.5°	126.5	115.5	99.0	82.5	66.0	55.0	49.5	49.5	49.5	49.5	49.5
15°	121.0	110.0	93.5	71.5	55.0	44.0	33.0	33.0	33.0	38.5	38.5
17.5°	115.5	104.5	82.5	55.0	38.5	27.5	22.0	22.0	22.0	27.5	27.5
20°	115.5	99.0	71.5	44.0	27.5	16.5	11.0	11.0	11.0	16.5	22.0
22.5°	115.5	99.0	66.0	33.0	16.5	11.0	5.5	5.5	5.5	5.5	5.5
25°	115.5	93.5	60.5	27.5	11.0	5.5	0.0	0.0	5.5	11.0	16.5
27.5°	115.5	88.0	49.5	16.5	11.0	5.5	0.0	5.5	11.0	11.0	11.0
30°	115.5	88.0	44.0	16.5	5.5	0.0	0.0	5.5	11.0	11.0	16.5
32.5°	121.0	82.5	38.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	126.5	77.0	33.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	137.5	77.0	22.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	154.0	82.5	22.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	192.5	88.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	269.5	110.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	395.9	165.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	577.4	225.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	709.4	225.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	703.9	143.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	538.9	99.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	456.4	71.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	549.9	55.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	978.9	49.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1572.8	49.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1759.8	49.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1374.8	44.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	753.4	38.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	379.4	27.5	11.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.5	22.0	11.0	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	55.0	22.0	11.0	11.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0
85°	27.5	16.5	16.5	11.0	11.0	5.5	5.5	0.0	0.0	0.0	0.0
87.5°	16.5	16.5	16.5	11.0	11.0	5.5	5.5	0.0	0.0	0.0	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

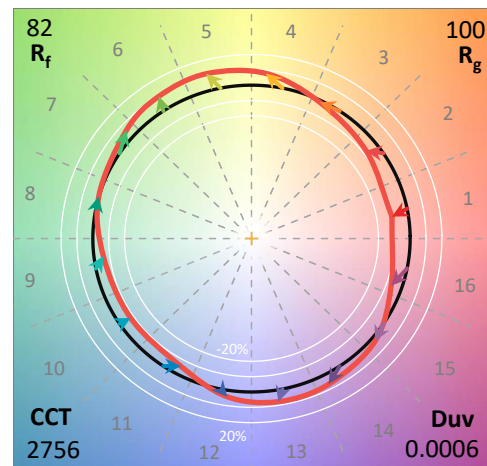
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

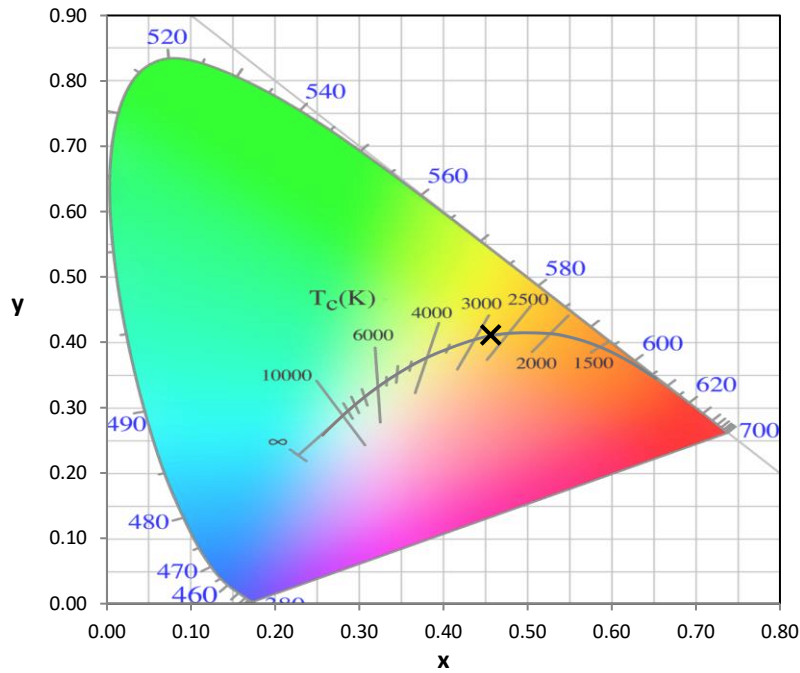
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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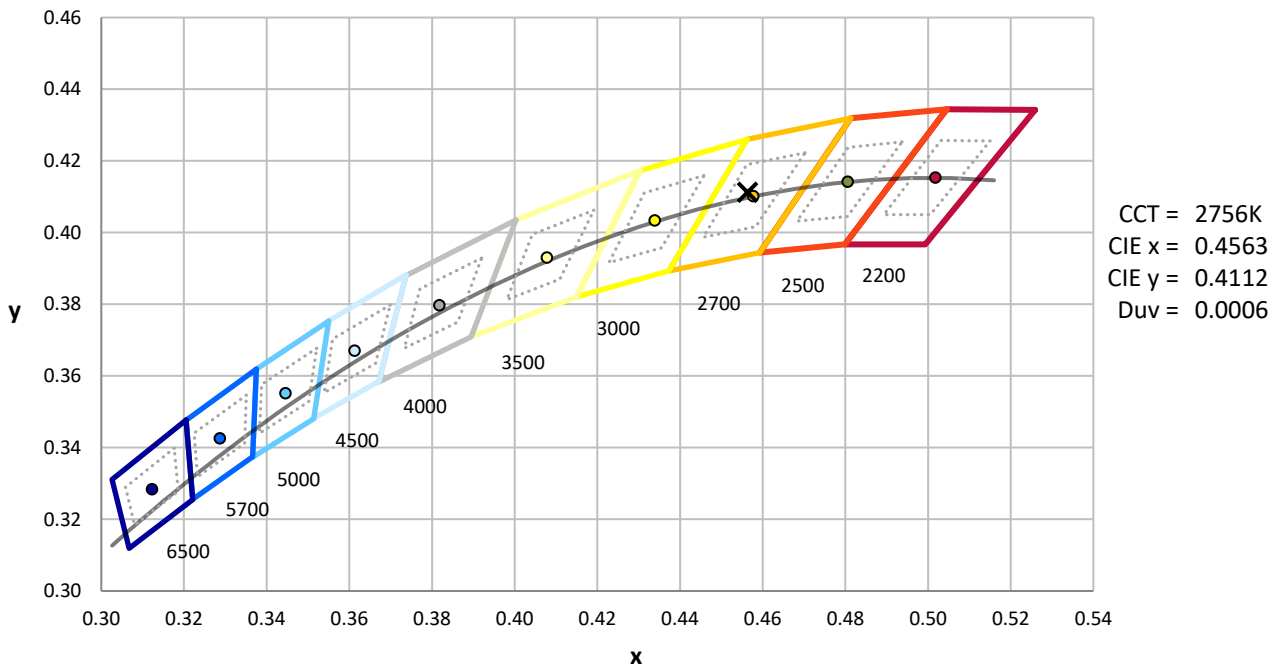
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

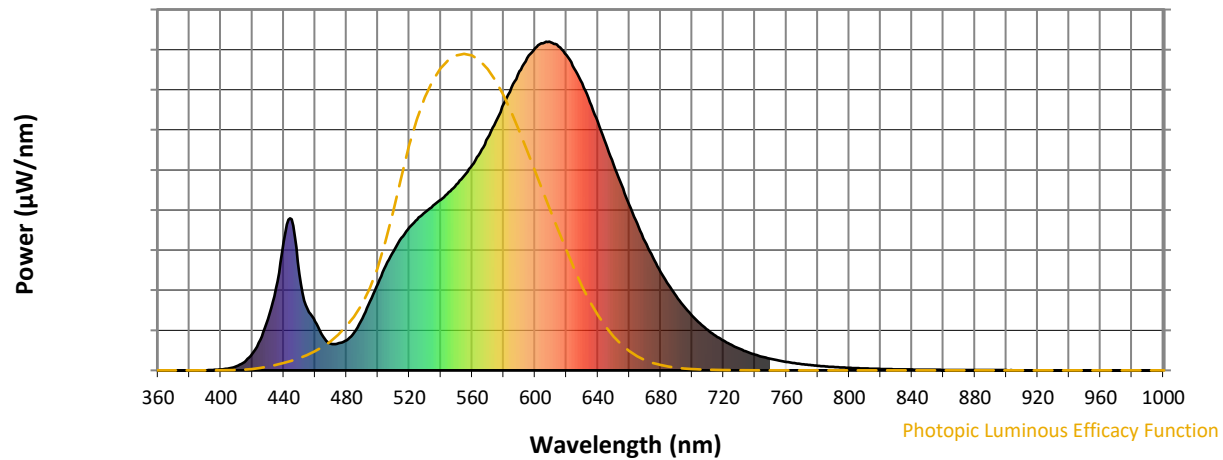


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

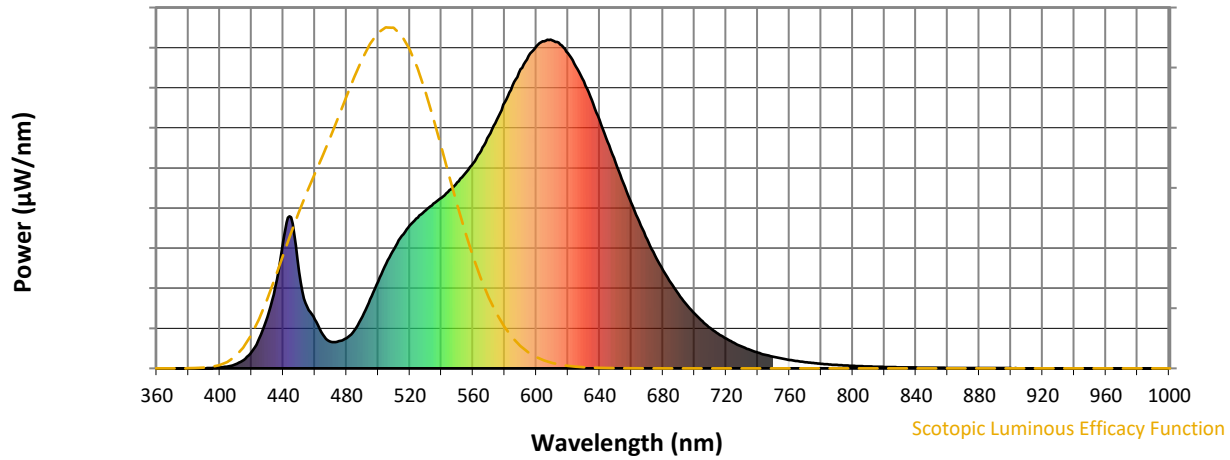


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



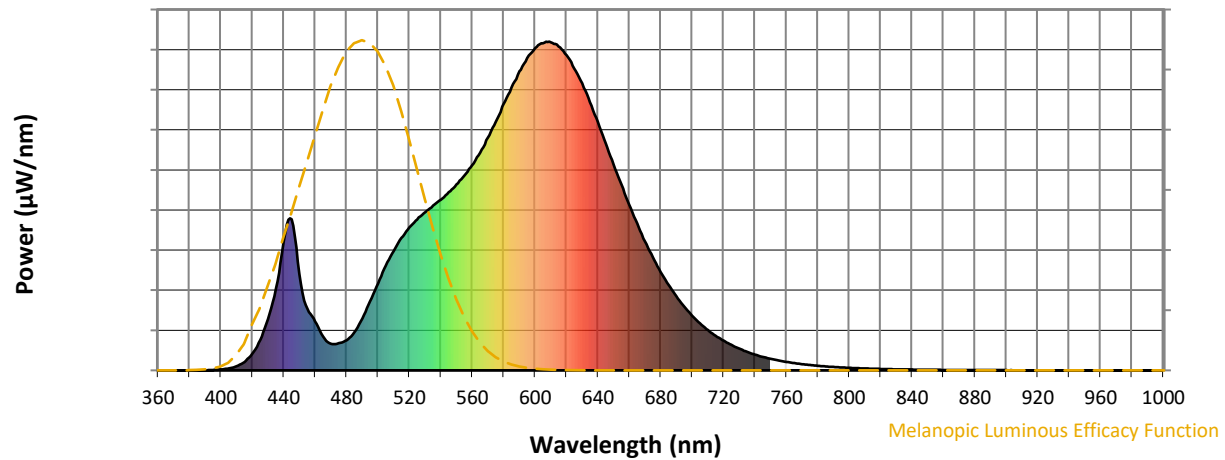
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

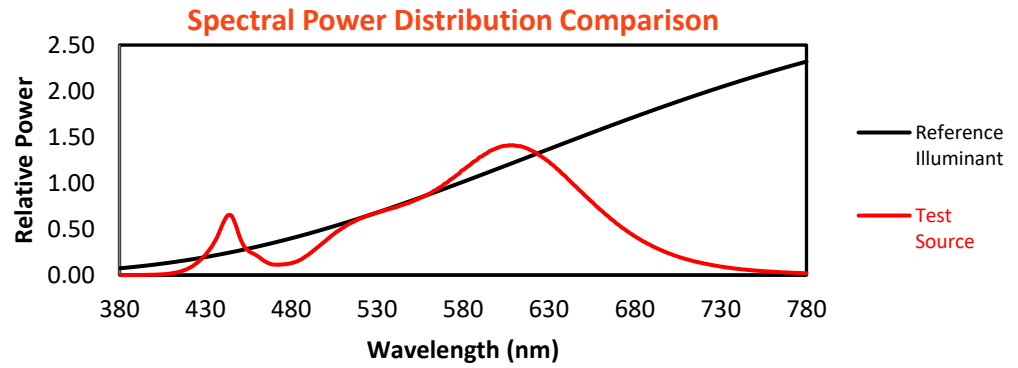
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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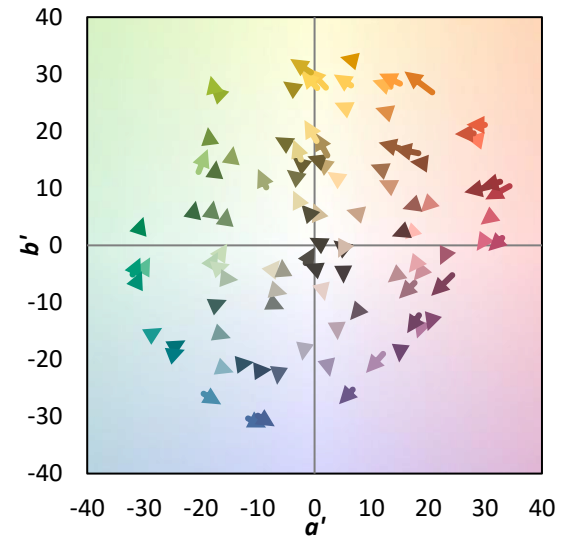
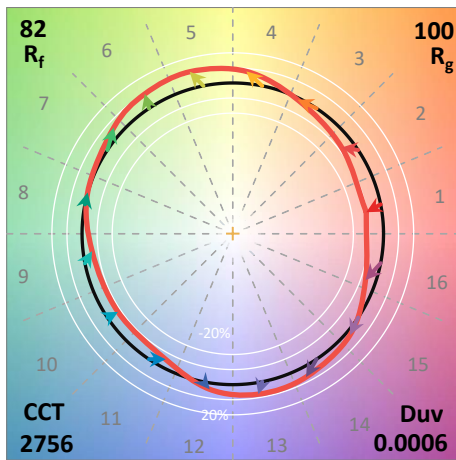
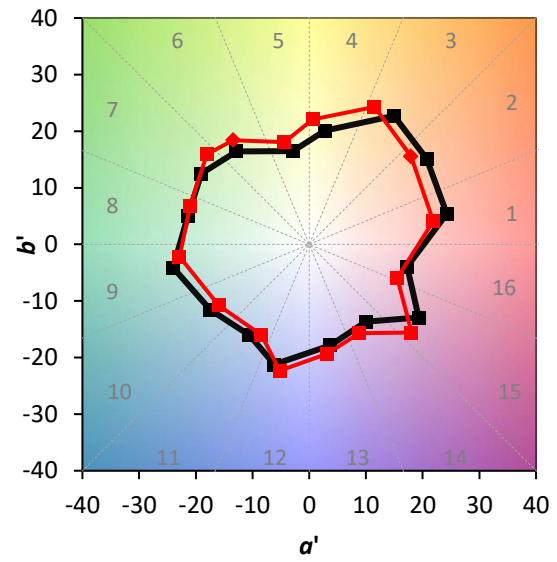
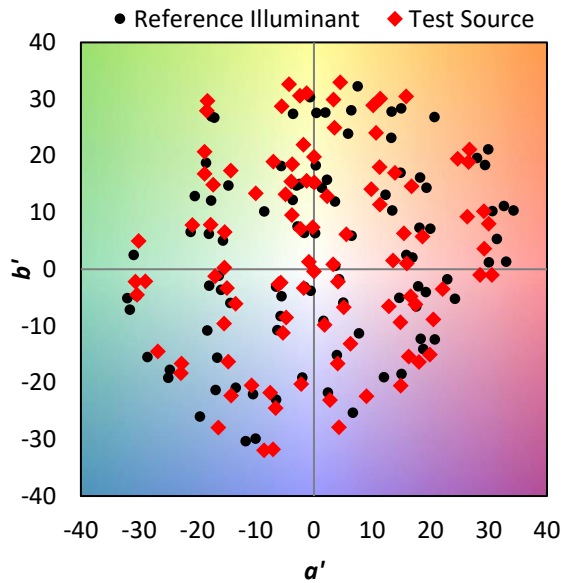
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE\ R_a = 82.9$
 $R_9 = 10.8$

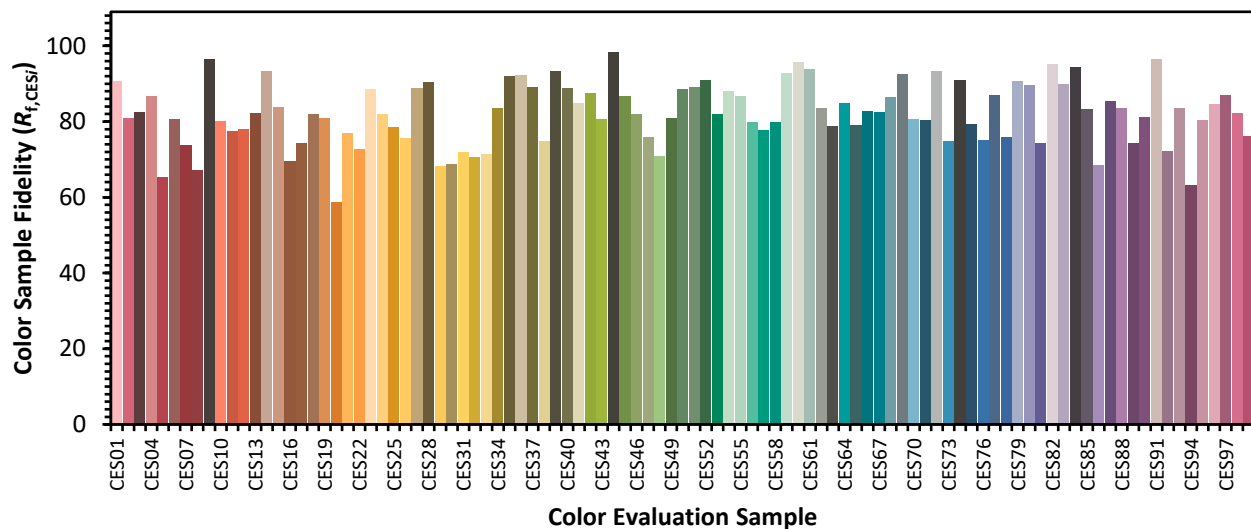


Color Vector Graphics

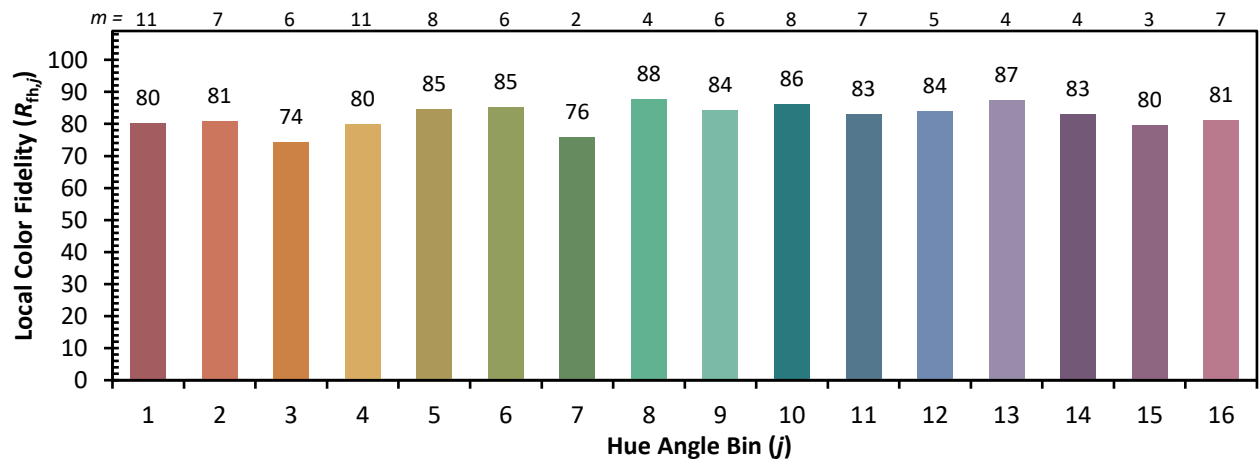
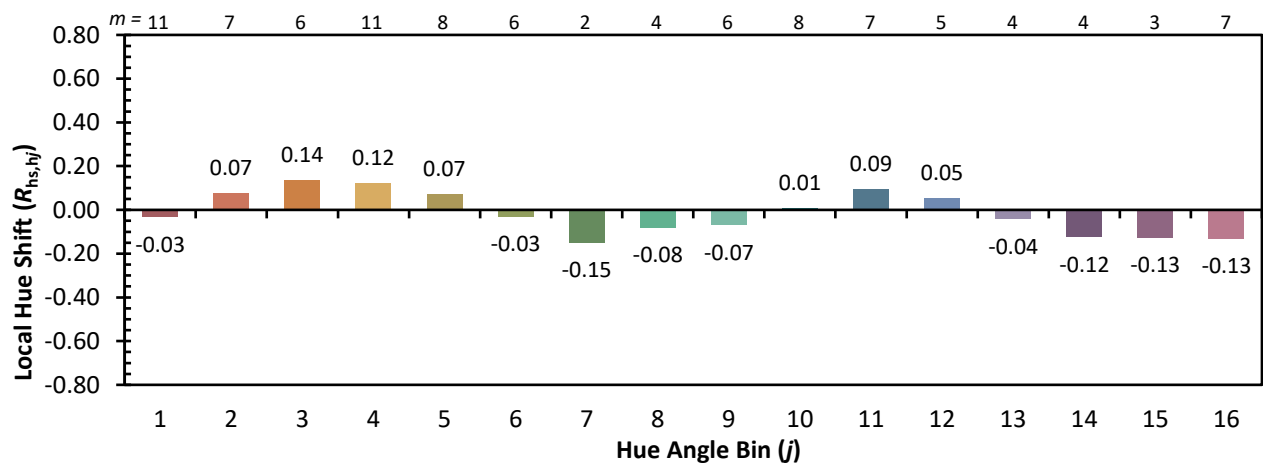
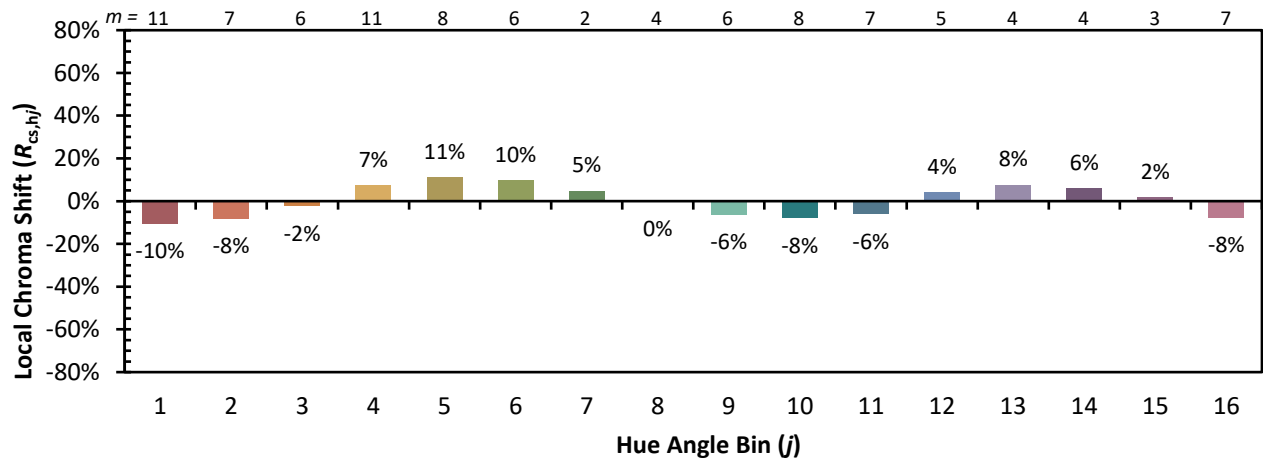


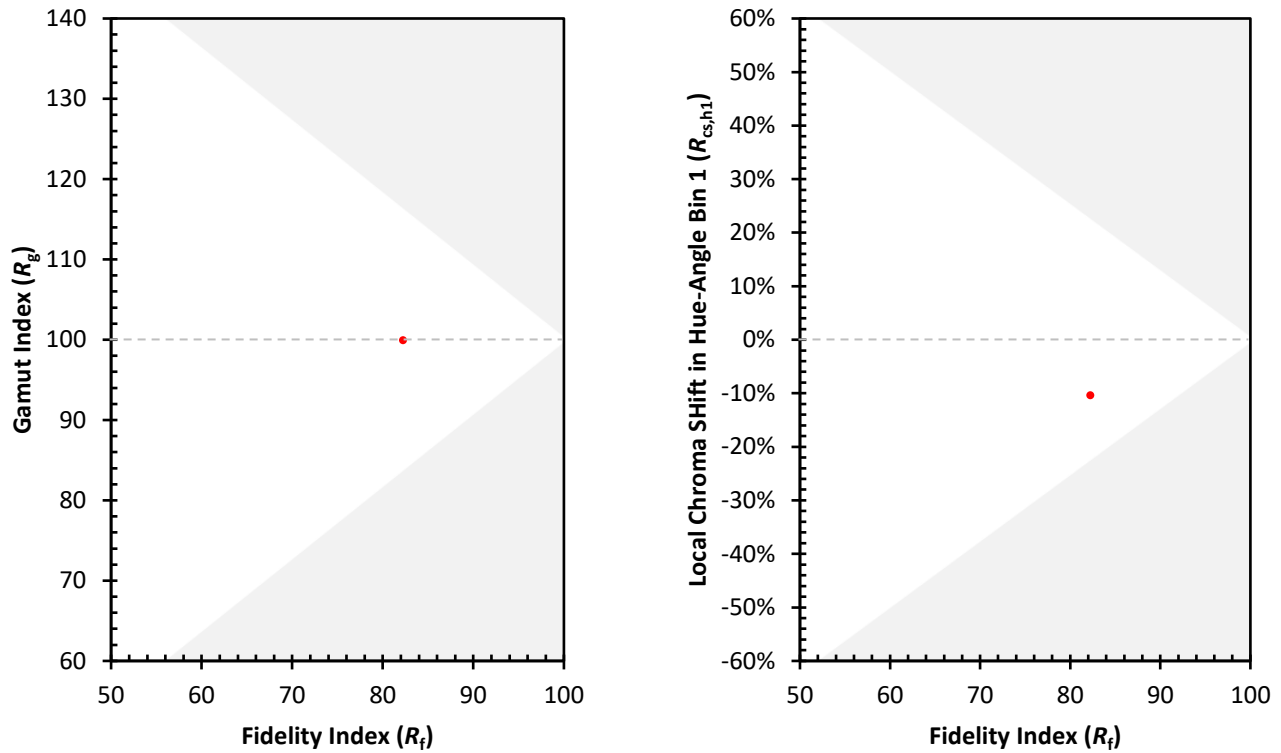
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)