

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: P1067332

Luminaire Tested: **NAV-SA4D-827-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067332
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4D-827-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 4xLight Square PACKAGE
80CRI 2700K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17553.6 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 218.9
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



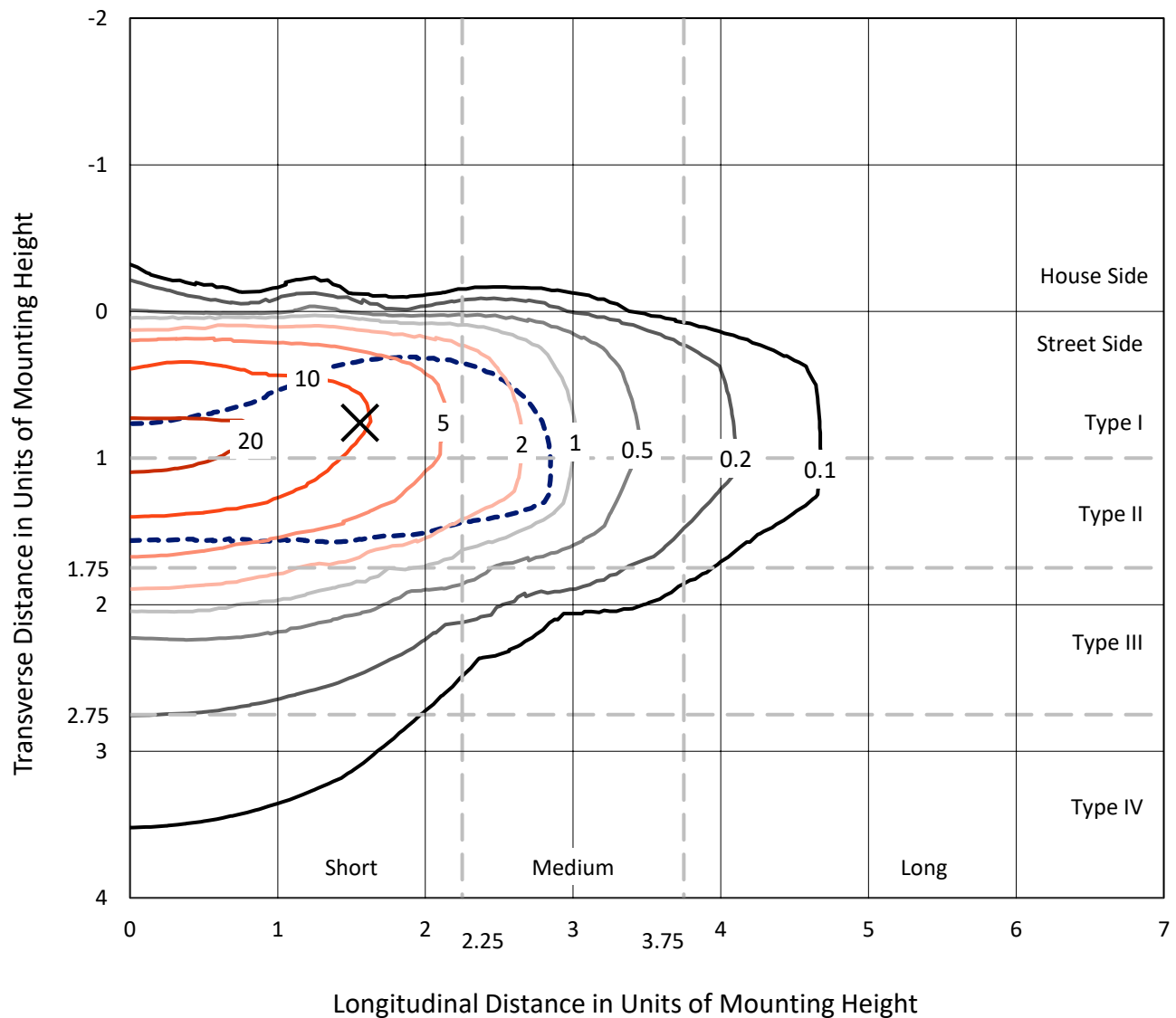
REPORT NUMBER: P1067332

CATALOG NUMBER: NAV-SA4D-827-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

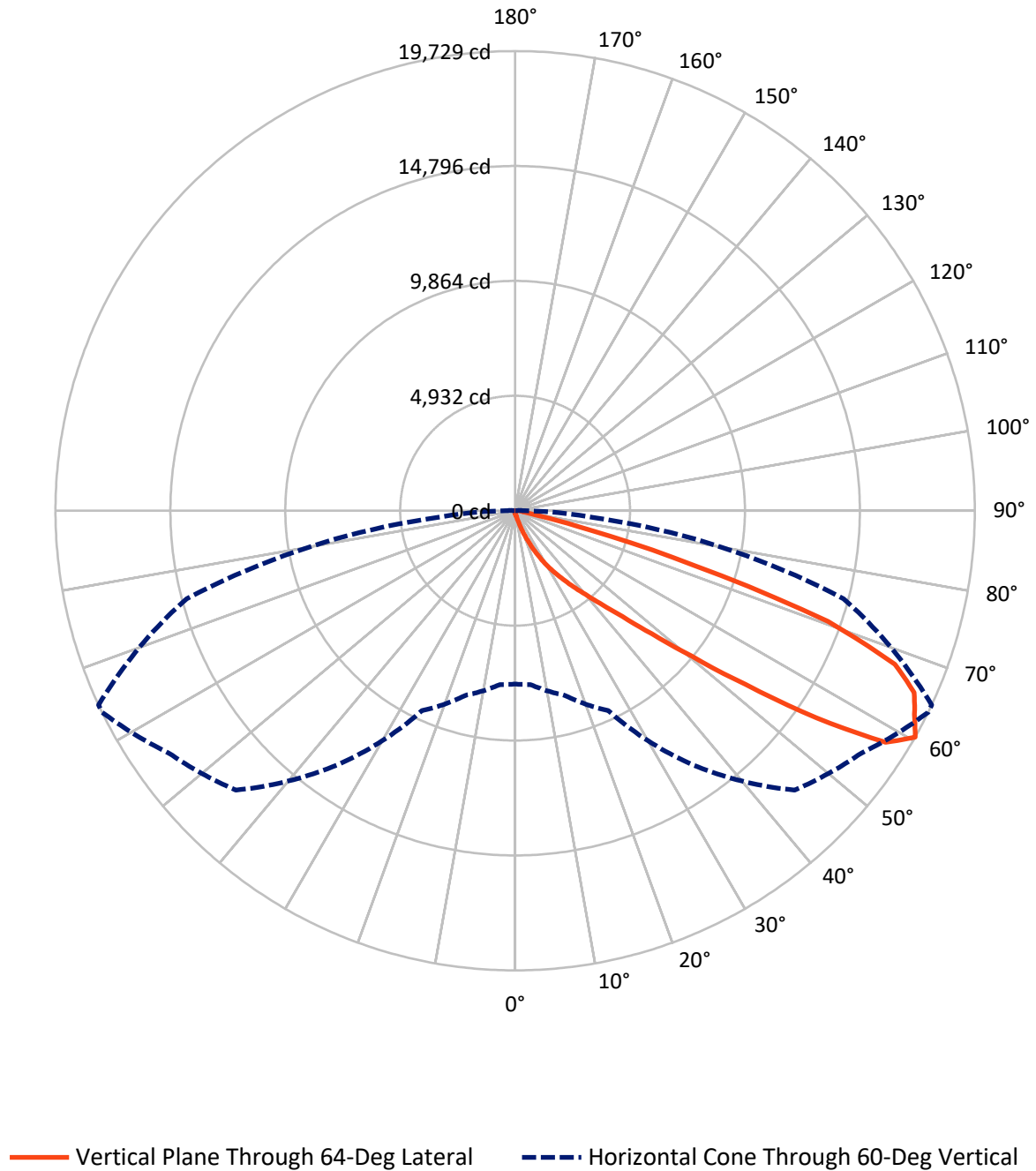


Based on 15 foot mounting height. Maximum calculated value = 25.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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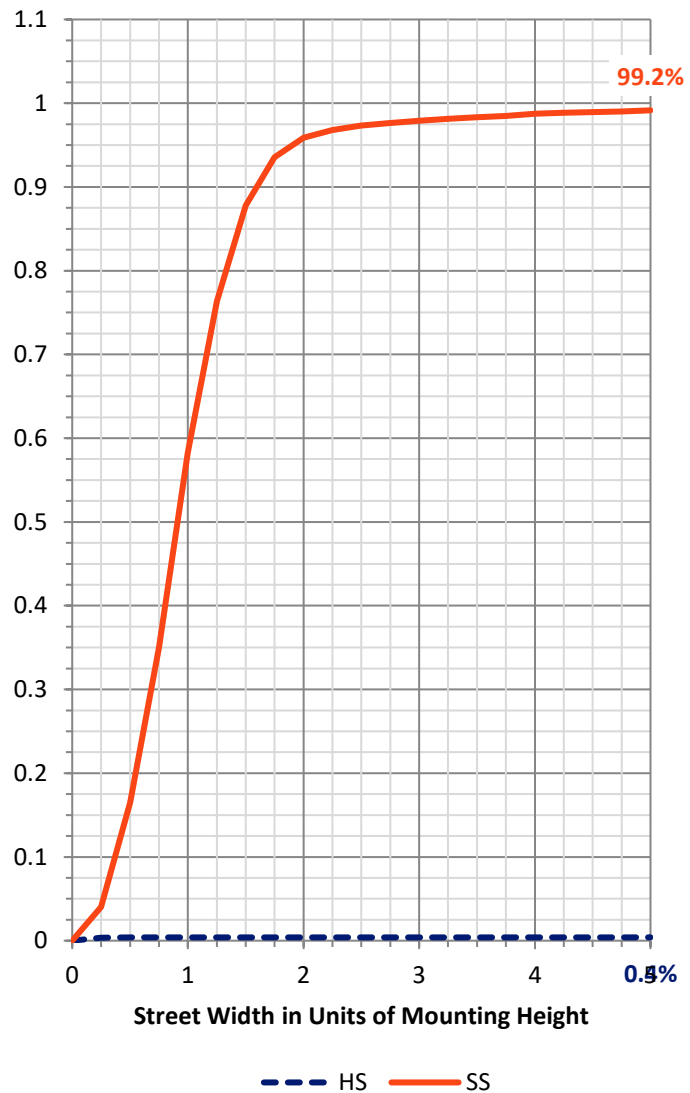
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.2	0.0	71.2
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	17482.5	0.0	17482.5
	% Fixture	99.6	0.0	99.6
Total	Lumens	17553.6	0.0	17553.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	0.1
10°-20°	172.5	1.0
20°-30°	572.9	3.3
30°-40°	1528.7	8.7
40°-50°	3885.6	22.1
50°-60°	5664.3	32.3
60°-70°	4375.1	24.9
70°-80°	1201.5	6.8
80°-90°	135.6	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°	17553.6	100.0
0°-180°	17553.6	100.0



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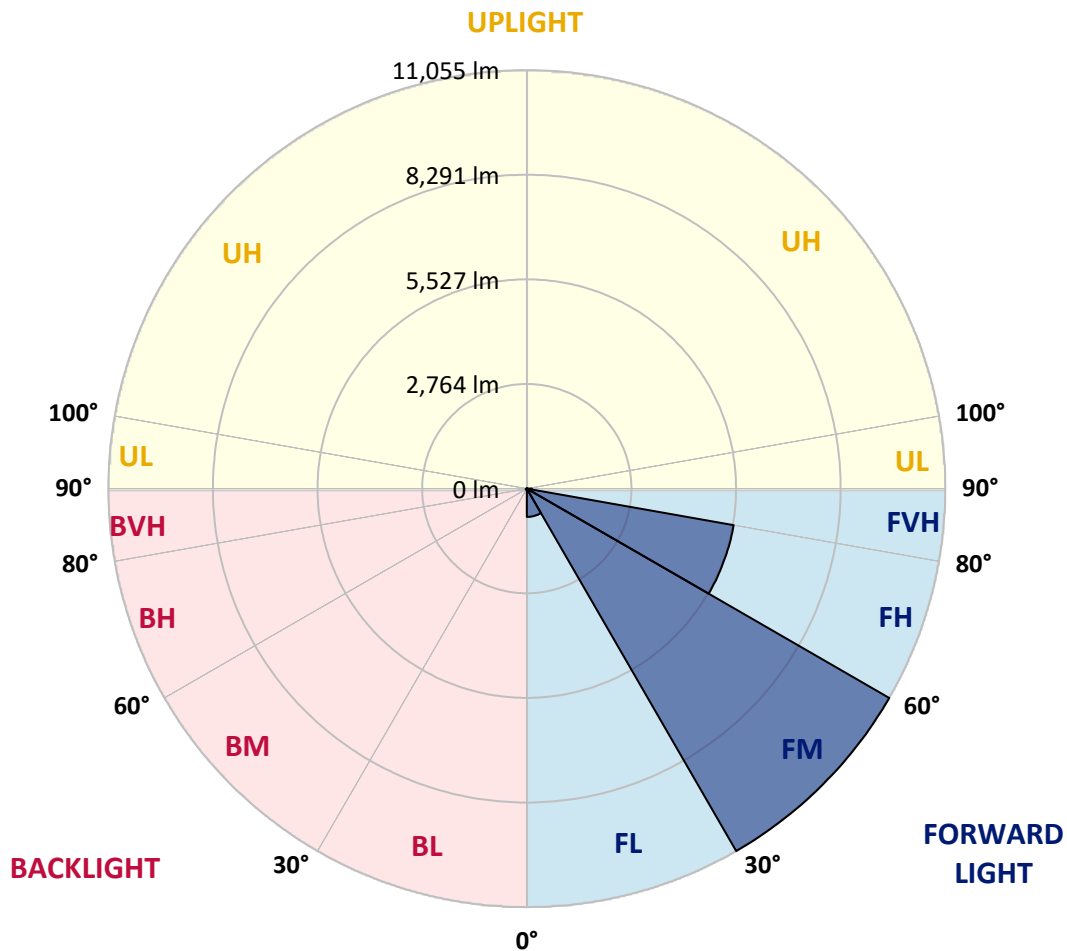
CATALOG NUMBER: NAV-SA4D-827-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.9	4.3			
FM	(30°-60°)	11055.0	63.0			
FH	(60°-80°)	5548.2	31.6			G3/7500
FVH	(80°-90°)	132.4	0.8			G2/225
BL	(0°-30°)	16.0	0.1	B0/110		
BM	(30°-60°)	23.6	0.1	B0/220		
BH	(60°-80°)	28.4	0.2	B0/110		G0/110
BVH	(80°-90°)	3.2	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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CATALOG NUMBER: NAV-SA4D-827-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
2.5°	154.6	154.6	154.6	149.8	145.0	145.0	140.1	135.3	135.3	125.6	120.8
5°	236.8	236.8	227.1	217.4	202.9	183.6	164.3	149.8	149.8	135.3	125.6
7.5°	463.9	478.4	434.9	381.7	309.2	260.9	207.8	173.9	169.1	145.0	125.6
10°	1005.0	995.4	927.7	797.3	628.1	454.2	289.9	212.6	202.9	154.6	125.6
12.5°	1512.4	1526.9	1454.4	1309.4	1106.5	806.9	497.7	275.4	265.8	169.1	125.6
15°	1947.3	1947.3	1898.9	1826.5	1604.2	1290.1	802.1	410.7	376.9	183.6	120.8
17.5°	2246.8	2242.0	2222.7	2203.3	2072.9	1749.1	1227.3	657.1	579.8	217.4	120.8
20°	2585.1	2570.6	2594.7	2556.1	2454.6	2198.5	1676.7	976.0	903.6	275.4	120.8
22.5°	2937.8	2952.3	2971.6	2933.0	2821.8	2599.6	2150.2	1386.8	1309.4	381.7	125.6
25°	3387.2	3377.5	3421.0	3387.2	3247.0	2986.1	2594.7	1836.1	1725.0	531.5	135.3
27.5°	3938.0	3918.7	3947.7	3860.7	3677.1	3411.3	2990.9	2295.1	2164.7	763.4	154.6
30°	4667.6	4682.1	4551.6	4450.2	4189.3	3836.5	3430.6	2788.0	2652.7	1038.9	173.9
32.5°	5817.6	5716.1	5513.2	5102.5	4759.4	4310.0	3870.3	3218.0	3097.2	1391.6	202.9
35°	7610.2	7629.6	7185.0	6170.3	5426.2	4904.4	4353.5	3691.6	3604.6	1792.6	241.6
37.5°	9794.2	9741.1	9349.7	8069.3	6402.3	5643.7	4904.4	4208.6	4083.0	2227.5	289.9
40°	12268.2	12045.9	11818.8	10949.1	8436.5	6571.4	5600.2	4807.7	4711.1	2730.0	367.2
42.5°	14249.3	14191.3	14229.9	13867.5	11828.5	8151.4	6523.1	5542.2	5426.2	3353.3	502.5
45°	15225.3	15143.2	15375.1	15645.7	15123.8	11514.4	8011.3	6479.6	6324.9	4087.8	710.3
47.5°	14964.4	14906.4	15404.1	15935.6	16631.4	15413.7	10441.7	7880.8	7615.1	5030.0	1019.5
50°	13679.1	13683.9	14500.5	15491.1	16592.7	17390.0	14041.5	9799.1	9465.7	6281.5	1502.7
52.5°	12427.6	12466.3	13331.2	14775.9	16017.7	17621.9	17201.5	12384.1	11843.0	7755.2	2072.9
55°	11142.3	11161.7	11925.1	13959.3	15747.1	16931.0	18825.1	15713.3	15138.3	9591.3	2628.6
57.5°	9905.4	9905.4	10190.5	11997.6	15452.4	16868.1	18631.8	18757.4	18288.7	11688.4	3039.3
60°	7441.1	7489.4	8199.7	9465.7	13326.4	16959.9	18138.9	19728.6	19728.6	14597.2	3353.3
62.5°	3759.2	3831.7	4715.9	5948.1	9141.9	15694.0	18216.2	19240.6	19317.9	17162.9	4068.5
65°	1763.6	1845.8	2319.3	3189.0	4918.9	11045.7	17414.1	18825.1	18800.9	16674.9	5576.0
67.5°	1266.0	1290.1	1449.6	1860.3	2647.9	4841.6	13292.5	17583.3	17592.9	14167.1	6411.9
70°	1135.5	1135.5	1174.2	1294.9	1594.5	2164.7	6460.2	14239.6	14930.6	10939.4	5943.2
72.5°	1121.0	1111.3	1101.7	1106.5	1077.5	1087.2	2217.8	8040.3	9026.0	7653.7	4740.1
75°	1092.0	1092.0	1082.3	1048.5	860.1	700.6	763.4	3251.9	3759.2	5112.1	3517.6
77.5°	864.9	951.9	1053.4	990.5	787.6	526.7	444.5	942.2	1188.6	3135.9	2551.2
80°	401.0	405.9	401.0	420.4	502.5	376.9	328.6	459.0	463.9	1739.5	1580.0
82.5°	289.9	294.7	280.2	251.3	222.3	202.9	270.6	338.2	362.4	797.3	589.5
85°	87.0	82.1	96.6	130.5	154.6	178.8	227.1	285.1	299.6	294.7	87.0
87.5°	38.7	38.7	48.3	67.6	91.8	135.3	198.1	260.9	265.8	304.4	24.2
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-SA4D-827-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
2.5°	120.8	116.0	111.1	106.3	101.5	96.6	91.8	91.8	96.6	96.6	96.6
5°	116.0	111.1	101.5	91.8	87.0	82.1	77.3	77.3	82.1	82.1	82.1
7.5°	116.0	106.3	96.6	87.0	77.3	72.5	67.6	67.6	67.6	72.5	72.5
10°	116.0	106.3	91.8	77.3	67.6	62.8	58.0	53.2	58.0	58.0	58.0
12.5°	111.1	101.5	87.0	72.5	58.0	48.3	43.5	43.5	43.5	43.5	43.5
15°	106.3	96.6	82.1	62.8	48.3	38.7	29.0	29.0	29.0	33.8	33.8
17.5°	101.5	91.8	72.5	48.3	33.8	24.2	19.3	19.3	19.3	24.2	24.2
20°	101.5	87.0	62.8	38.7	24.2	14.5	9.7	9.7	9.7	14.5	19.3
22.5°	101.5	87.0	58.0	29.0	14.5	9.7	4.8	4.8	4.8	4.8	4.8
25°	101.5	82.1	53.2	24.2	9.7	4.8	0.0	0.0	4.8	9.7	14.5
27.5°	101.5	77.3	43.5	14.5	9.7	4.8	0.0	4.8	9.7	9.7	9.7
30°	101.5	77.3	38.7	14.5	4.8	0.0	0.0	4.8	9.7	9.7	14.5
32.5°	106.3	72.5	33.8	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	111.1	67.6	29.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	120.8	67.6	19.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	135.3	72.5	19.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	169.1	77.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	236.8	96.6	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	347.9	145.0	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	507.3	198.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	623.3	198.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	618.5	125.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	473.5	87.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	401.0	62.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	483.2	48.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	860.1	43.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1381.9	43.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1546.2	43.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1208.0	38.7	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	662.0	33.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	333.4	24.2	9.7	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.1	19.3	9.7	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.3	19.3	9.7	9.7	4.8	4.8	0.0	0.0	0.0	0.0	0.0
85°	24.2	14.5	14.5	9.7	9.7	4.8	4.8	0.0	0.0	0.0	0.0
87.5°	14.5	14.5	14.5	9.7	9.7	4.8	4.8	0.0	0.0	0.0	4.8
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: SP1-2407-184-8

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

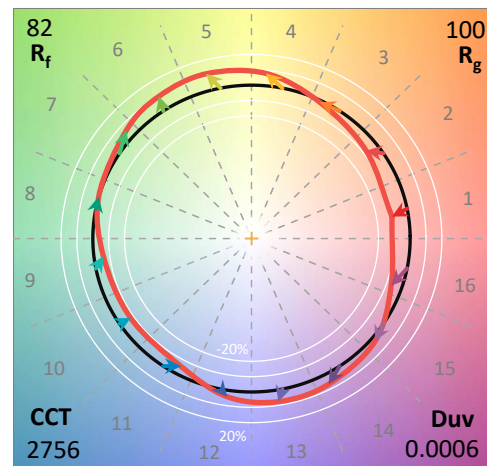
Test Information

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

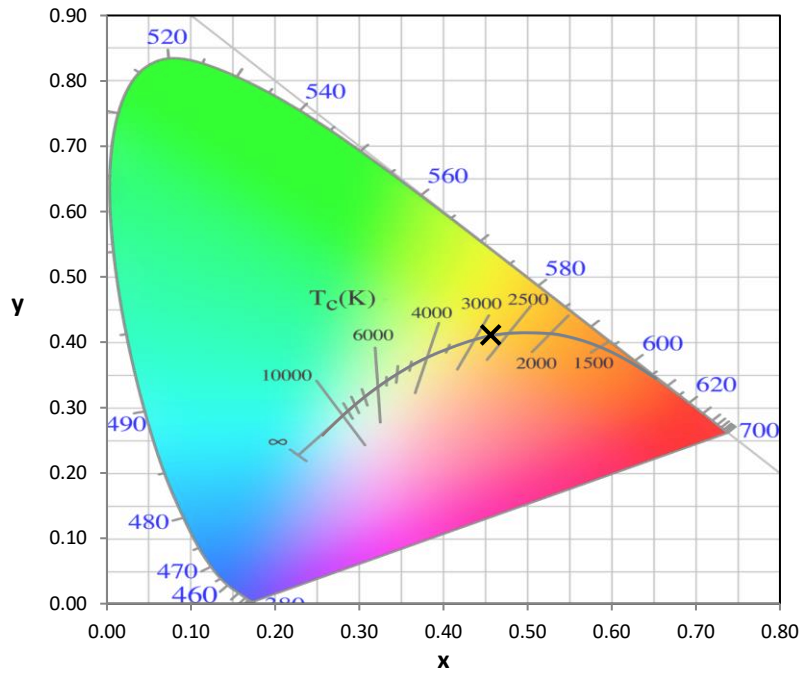
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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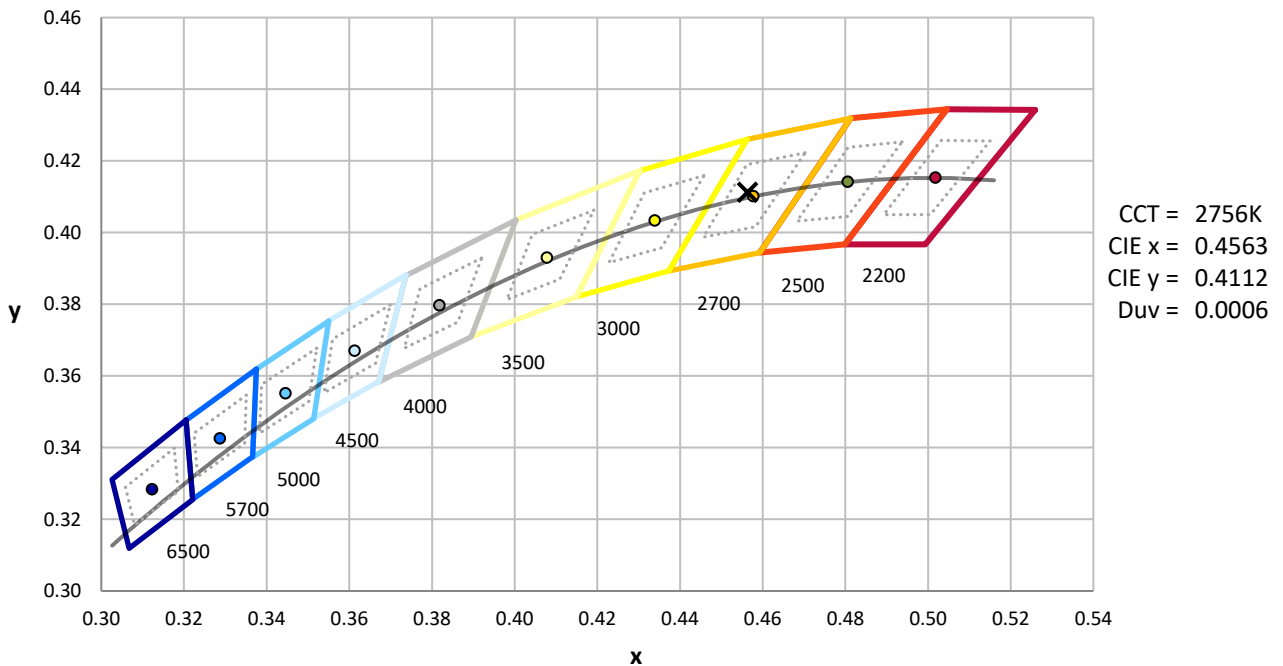
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



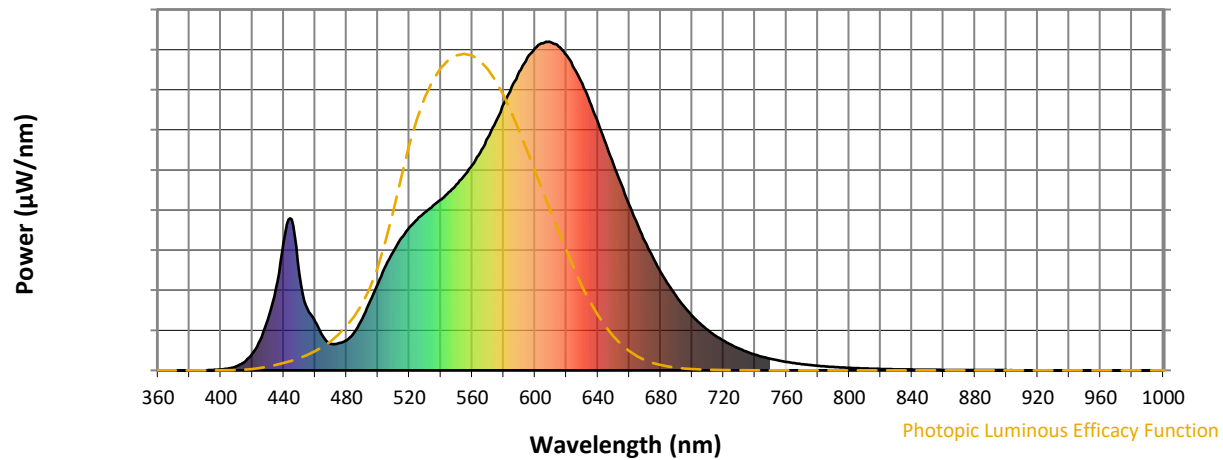
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

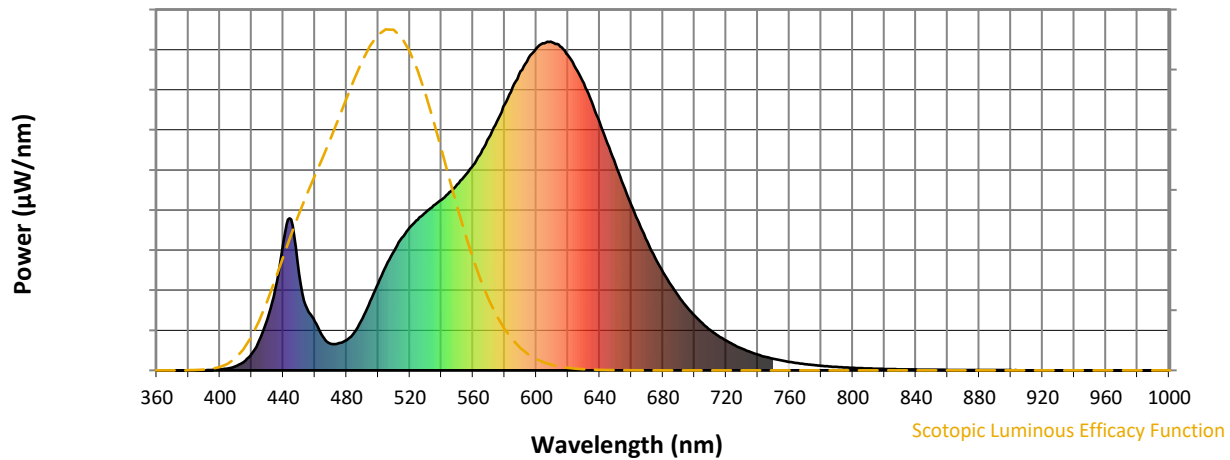


Photopic Lumens: NR

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	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



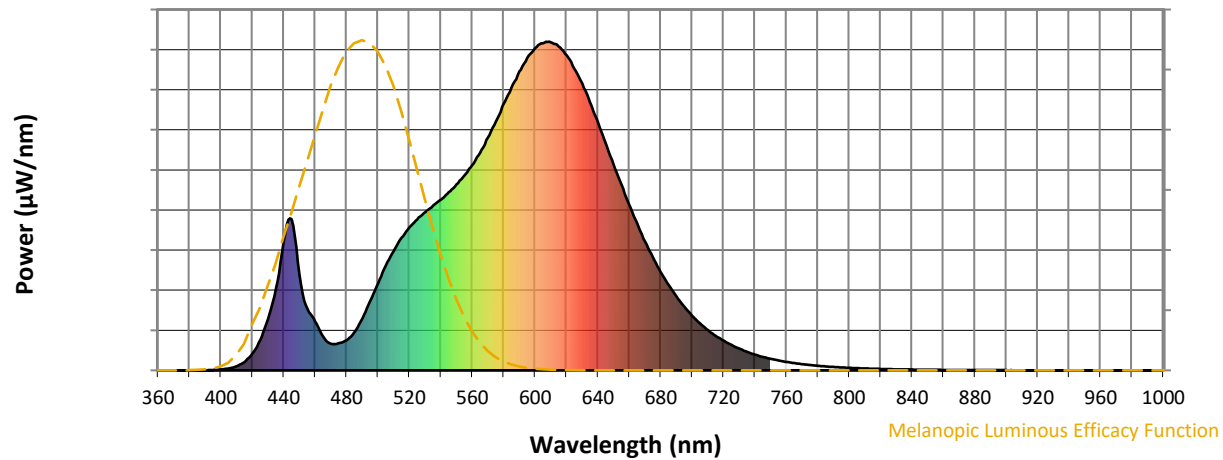
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power W [^] /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	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

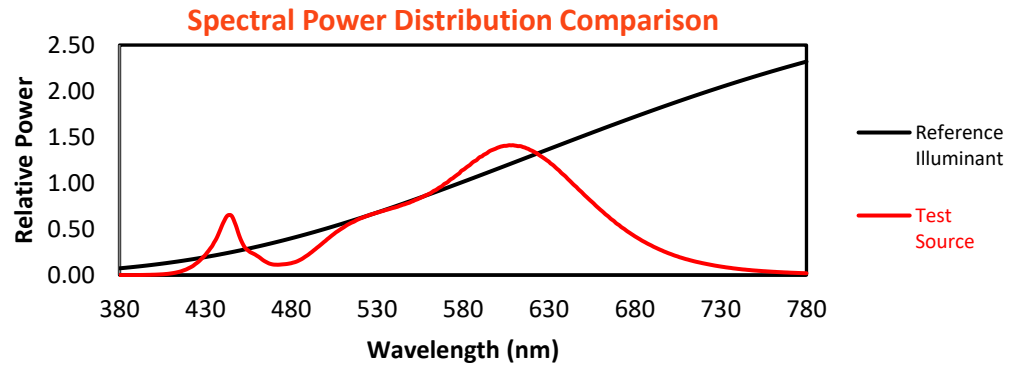
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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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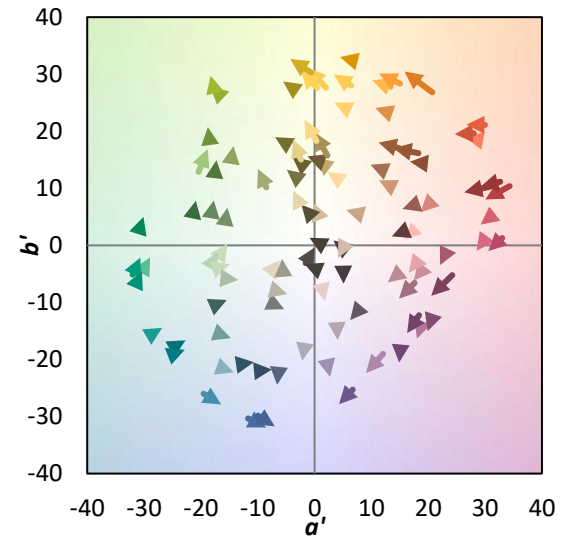
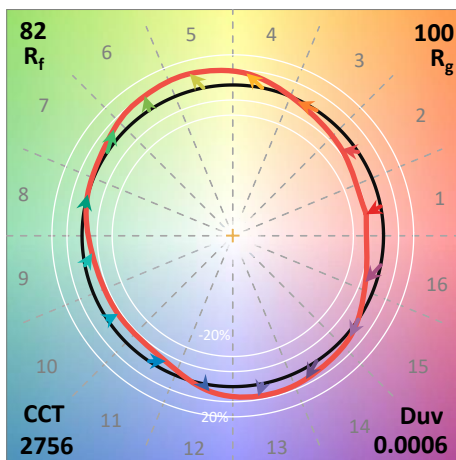
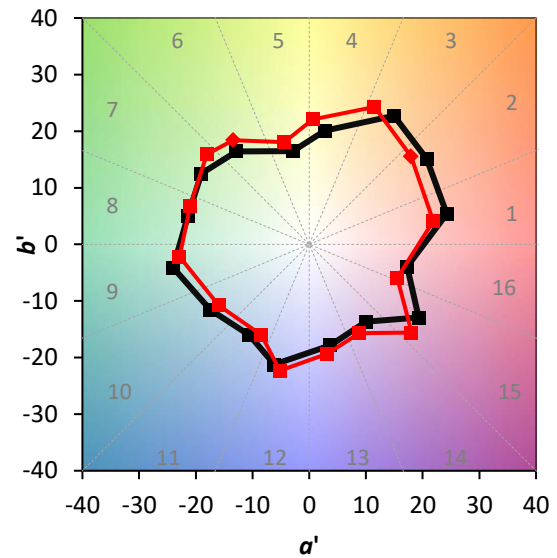
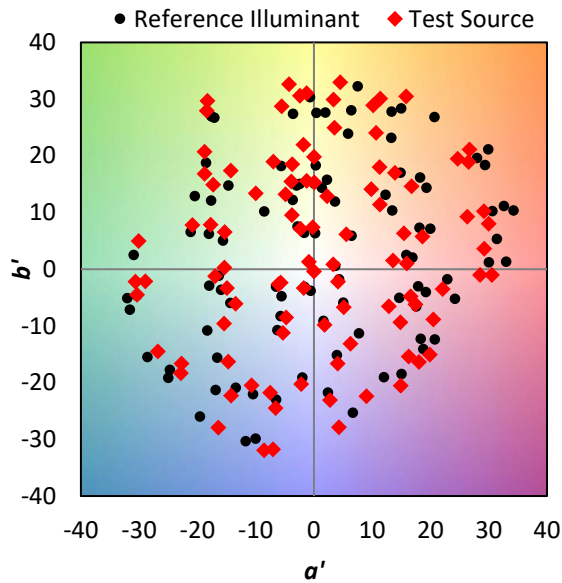
TM-30-18

Summary

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

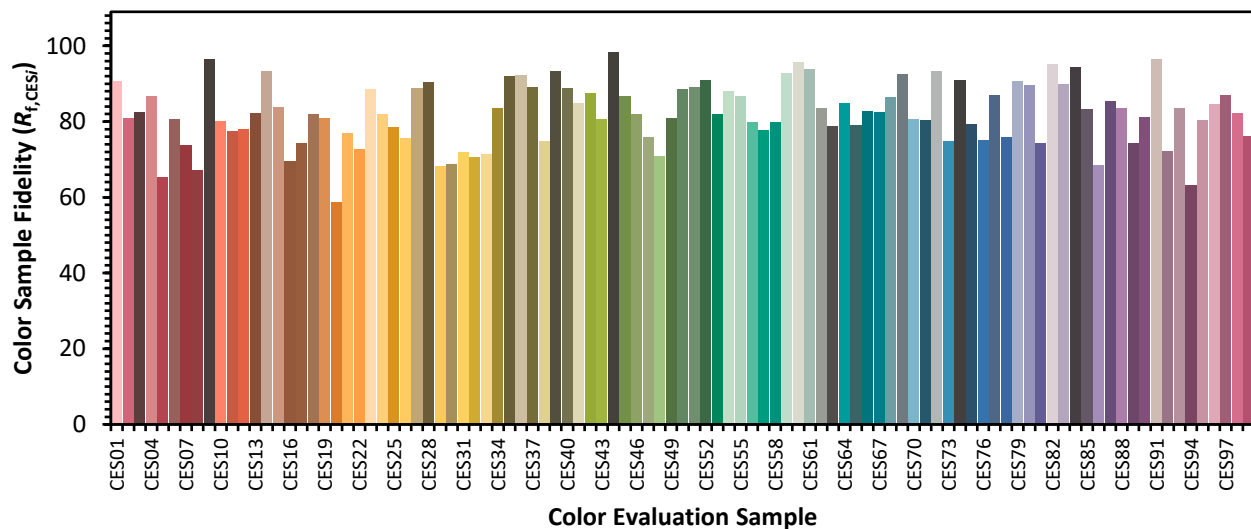


Color Vector Graphics

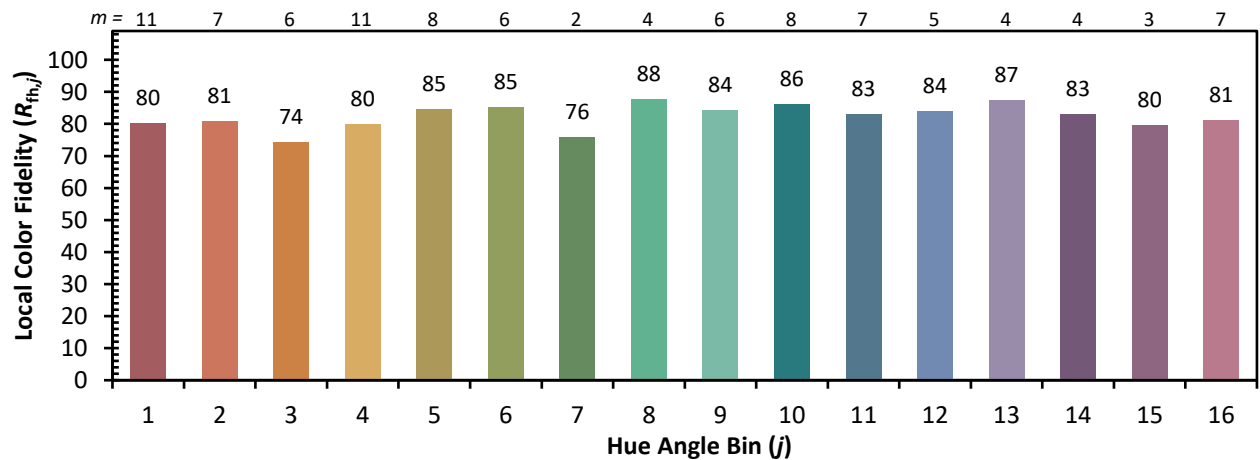
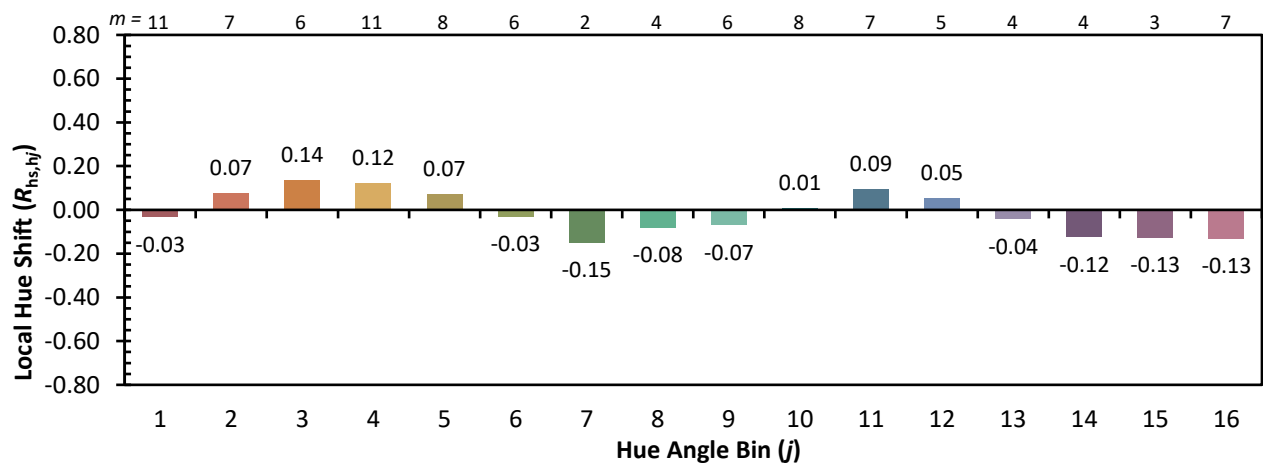
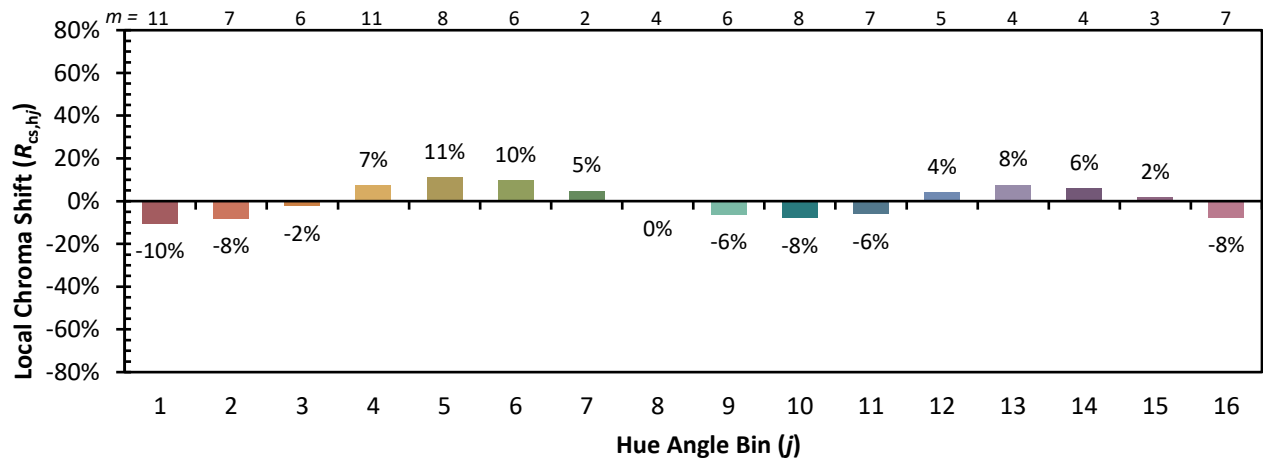


Individual Sample Fidelity Index ($R_{f,i}$)

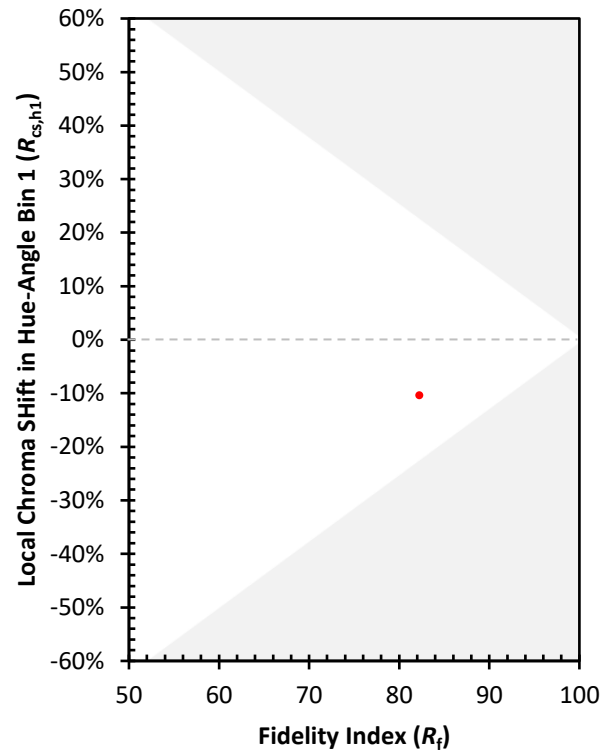
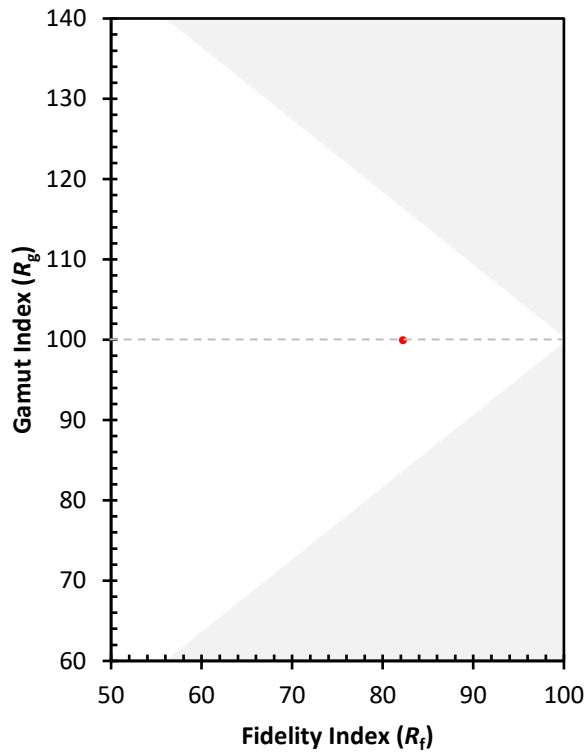
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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)