

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: P1067451

Luminaire Tested: **NAV-SA4C-727-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067451
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4C-727-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18339.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 190.4
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

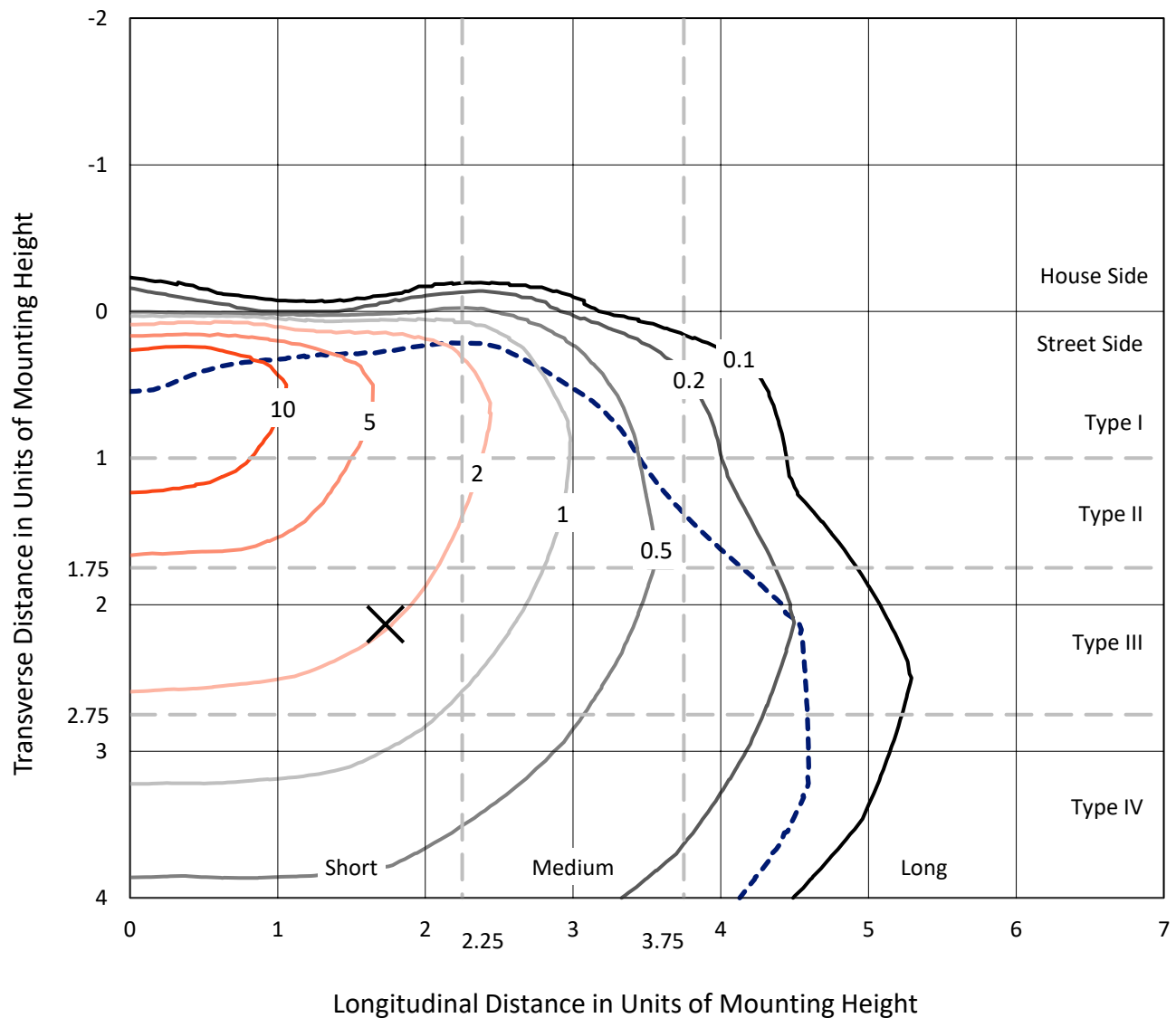


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

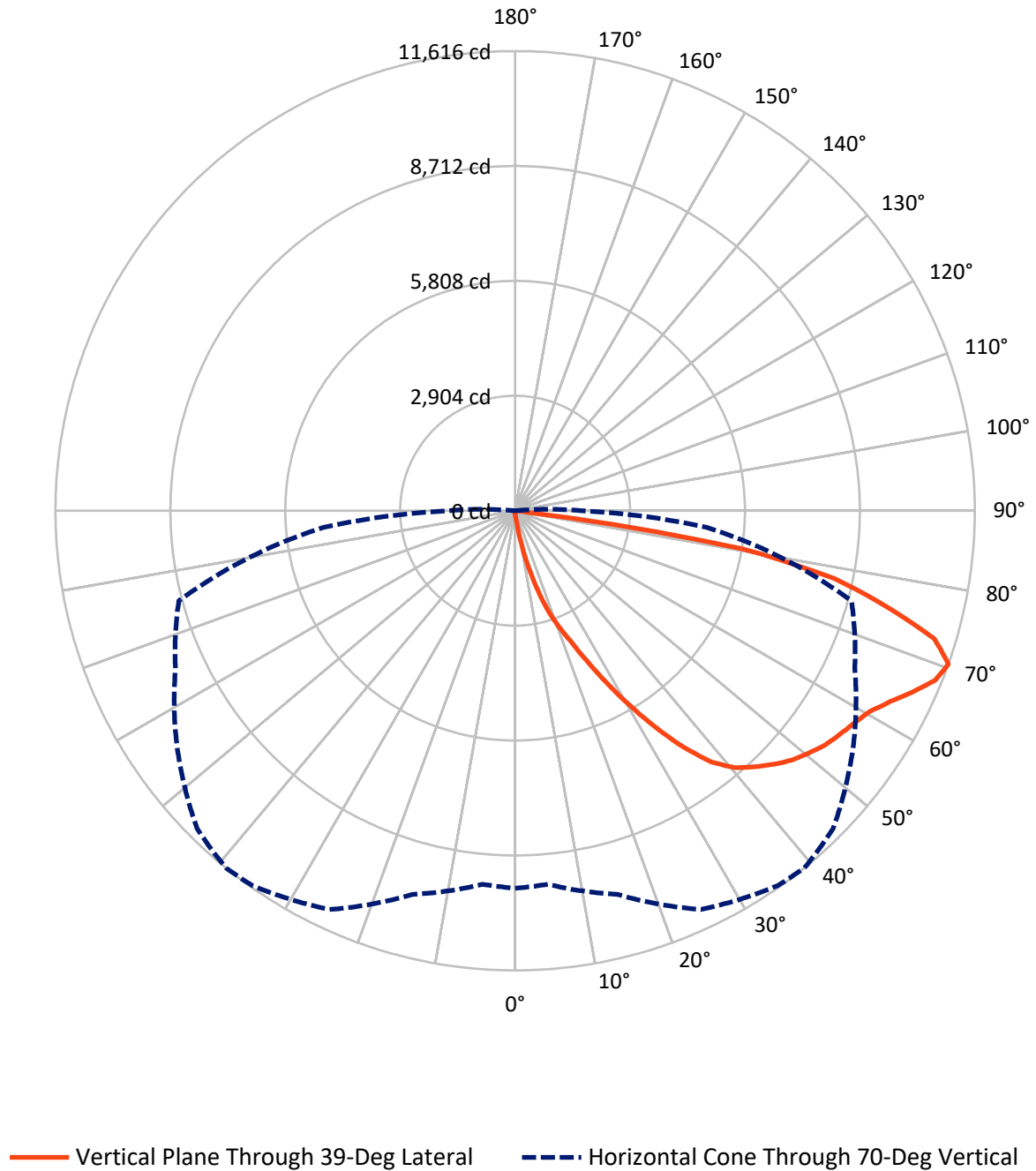


Based on 15 foot mounting height. Maximum calculated value = 20 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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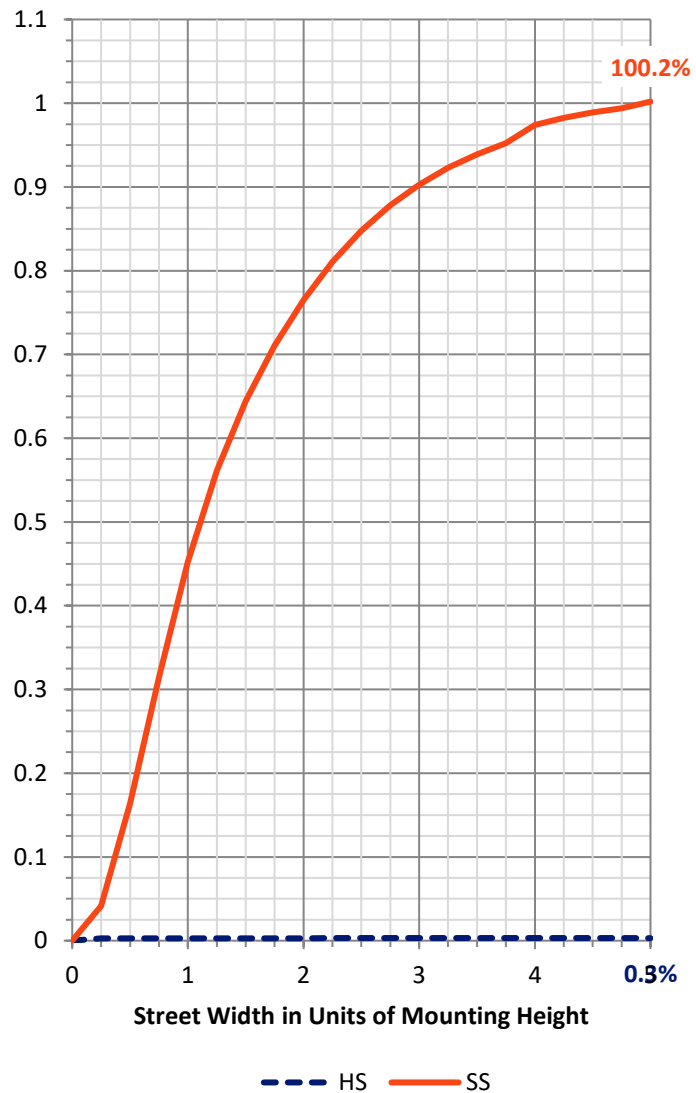
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.5	0.0	56.5
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	18283.0	0.0	18283.0
	% Fixture	99.7	0.0	99.7
Total	Lumens	18339.4	0.0	18339.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.1
10°-20°	225.5	1.2
20°-30°	765.1	4.2
30°-40°	1798.1	9.8
40°-50°	2919.8	15.9
50°-60°	3699.9	20.2
60°-70°	4699.9	25.6
70°-80°	3818.7	20.8
80°-90°	393.2	2.1
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°	18339.4	100.0
0°-180°	18339.4	100.0



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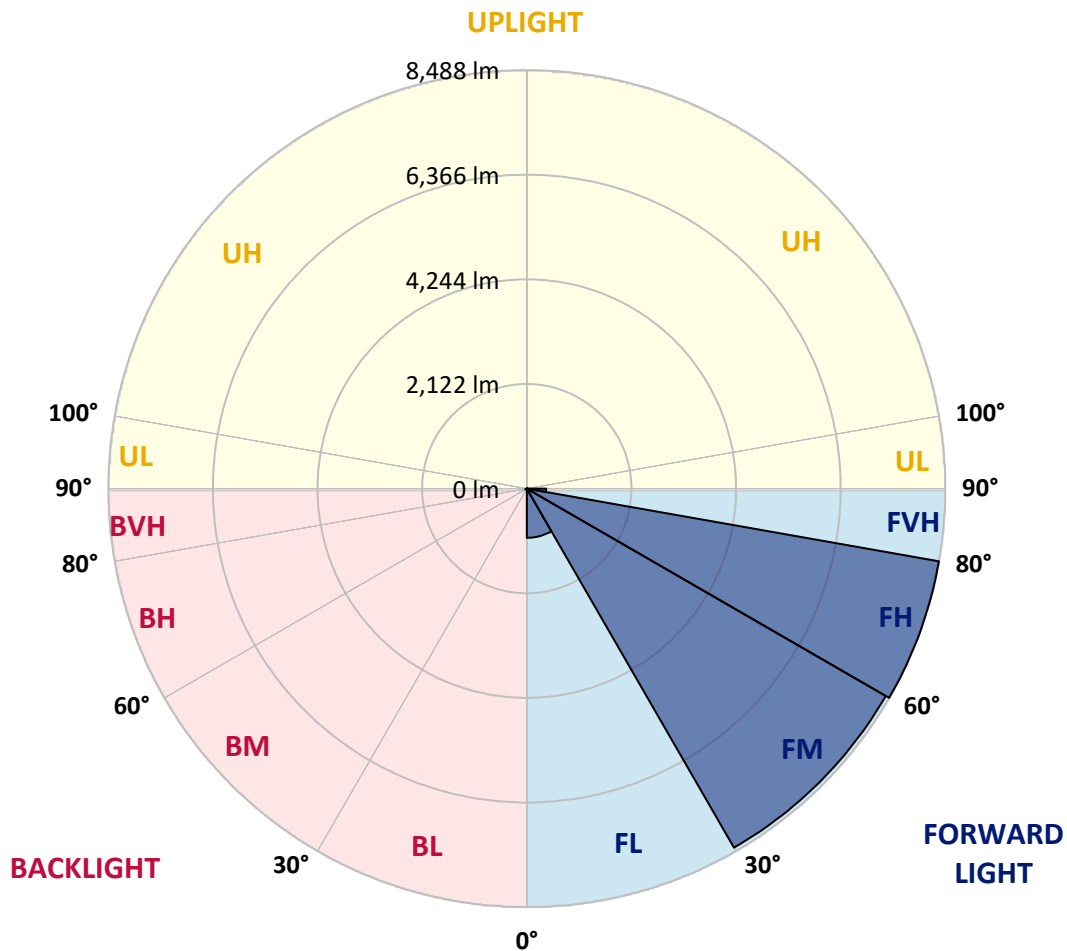
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	997.6	5.4			
FM	(30°-60°)	8407.0	45.8			
FH	(60°-80°)	8487.5	46.3			G4/12000
FVH	(80°-90°)	390.8	2.1			G3/500
BL	(0°-30°)	12.2	0.1	B0/110		
BM	(30°-60°)	10.9	0.1	B0/220		
BH	(60°-80°)	31.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2.5°	129.5	129.5	129.5	124.5	124.5	119.5	119.5	114.5	109.5	109.5	104.6
5°	244.0	249.0	234.0	204.1	184.2	174.3	164.3	139.4	124.5	114.5	104.6
7.5°	667.2	647.3	617.4	517.8	398.3	338.6	288.8	204.1	149.4	119.5	104.6
10°	1404.1	1349.3	1264.7	1130.3	896.2	801.6	622.4	373.4	209.1	134.4	104.6
12.5°	2061.3	2071.3	1966.7	1837.3	1553.5	1394.1	1150.2	702.1	328.6	159.3	104.6
15°	2559.3	2549.3	2509.5	2404.9	2151.0	1996.6	1777.5	1180.0	552.7	199.2	109.5
17.5°	2952.6	2912.8	2897.8	2853.0	2688.7	2604.1	2365.1	1737.7	876.3	268.9	114.5
20°	3346.0	3336.0	3321.1	3271.3	3161.7	3102.0	2917.8	2300.3	1304.5	383.4	124.5
22.5°	3918.5	3863.8	3873.7	3764.2	3674.6	3570.0	3420.6	2897.8	1797.5	547.7	139.4
25°	4590.7	4585.7	4506.1	4456.3	4306.9	4192.4	3993.2	3475.4	2345.2	791.7	154.4
27.5°	5382.4	5327.6	5292.8	5208.1	5053.8	4924.3	4650.5	4048.0	2937.7	1065.5	174.3
30°	6208.9	6208.9	6144.2	6014.7	5865.4	5706.0	5427.2	4650.5	3525.2	1414.1	199.2
32.5°	7174.9	7194.8	7035.5	6841.3	6647.1	6537.6	6174.1	5332.6	4087.8	1812.4	229.0
35°	8110.9	8086.1	7822.2	7608.1	7463.7	7344.2	7035.5	6079.5	4725.2	2275.4	268.9
37.5°	9007.2	8942.5	8504.3	8200.6	8135.8	8056.2	7747.5	6826.3	5357.5	2788.3	318.7
40°	9649.5	9549.9	9096.8	8678.6	8584.0	8539.1	8300.2	7503.5	6024.7	3360.9	383.4
42.5°	9928.3	9813.8	9500.1	9161.5	8952.4	8847.9	8638.7	8056.2	6691.9	3998.2	478.0
45°	9983.1	9893.5	9669.4	9589.7	9305.9	9146.6	8862.8	8449.5	7314.3	4630.6	607.4
47.5°	9783.9	9744.1	9609.7	9778.9	9634.6	9415.5	9071.9	8743.3	7867.0	5397.3	786.7
50°	9296.0	9266.1	9330.8	9774.0	9873.5	9624.6	9301.0	8972.3	8345.0	6189.0	1040.6
52.5°	8638.7	8633.8	8937.5	9644.5	9978.1	9823.8	9525.0	9201.4	8723.4	6955.8	1399.1
55°	7921.7	8006.4	8539.1	9525.0	10037.9	9968.2	9744.1	9405.5	9062.0	7667.8	1976.7
57.5°	7862.0	7827.1	8340.0	9475.2	10072.7	10112.5	9963.2	9619.6	9350.7	8250.4	2748.5
60°	8459.5	8379.8	8574.0	9579.8	10227.1	10296.8	10182.3	9783.9	9639.5	8708.4	3764.2
62.5°	9151.6	9076.9	9176.5	9983.1	10530.8	10630.4	10486.0	9953.2	9873.5	9027.1	4854.6
65°	9704.3	9644.5	9833.7	10585.6	10954.0	11038.7	10939.1	10266.9	9978.1	9286.0	5740.9
67.5°	9793.9	9719.2	10112.5	10988.9	11382.2	11442.0	11362.3	10570.6	9943.3	9305.9	5945.0
70°	9539.9	9475.2	10037.9	11118.3	11566.4	11616.2	11362.3	10426.2	9470.2	8798.1	4859.6
72.5°	8758.2	8808.0	9535.0	10804.6	11312.5	11083.5	10545.7	9699.3	8857.8	7458.7	3410.7
75°	7543.3	7598.1	8564.0	9943.3	9983.1	9704.3	9415.5	8922.5	7926.7	4914.4	2365.1
77.5°	5362.5	5168.3	6612.2	8210.5	8066.1	8245.4	8270.3	7423.8	6637.1	2559.3	1583.4
80°	527.8	448.1	831.5	2355.1	5203.2	5815.6	6054.6	5721.0	4894.5	1145.2	831.5
82.5°	114.5	114.5	124.5	134.4	209.1	313.7	1439.0	3525.2	3161.7	582.6	268.9
85°	64.7	64.7	79.7	94.6	124.5	139.4	164.3	219.1	851.4	209.1	49.8
87.5°	49.8	54.8	64.7	79.7	104.6	114.5	139.4	174.3	214.1	194.2	14.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2.5°	104.6	99.6	94.6	89.6	84.6	84.6	79.7	79.7	79.7	79.7	79.7
5°	99.6	94.6	89.6	79.7	74.7	69.7	64.7	64.7	64.7	64.7	64.7
7.5°	99.6	94.6	84.6	74.7	64.7	59.7	54.8	49.8	49.8	54.8	54.8
10°	99.6	89.6	74.7	64.7	54.8	49.8	44.8	39.8	39.8	39.8	39.8
12.5°	94.6	84.6	69.7	59.7	49.8	39.8	29.9	24.9	24.9	24.9	24.9
15°	89.6	79.7	64.7	49.8	34.9	24.9	19.9	14.9	14.9	14.9	14.9
17.5°	89.6	74.7	59.7	44.8	24.9	14.9	10.0	5.0	5.0	5.0	10.0
20°	89.6	74.7	54.8	34.9	14.9	10.0	10.0	5.0	0.0	5.0	5.0
22.5°	89.6	69.7	44.8	24.9	14.9	10.0	5.0	0.0	0.0	0.0	0.0
25°	94.6	69.7	39.8	19.9	10.0	5.0	0.0	0.0	0.0	0.0	0.0
27.5°	94.6	64.7	34.9	14.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	99.6	64.7	29.9	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	99.6	59.7	19.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	99.6	54.8	14.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	99.6	49.8	14.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	104.6	44.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	109.5	39.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	114.5	34.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	129.5	34.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	149.4	34.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	179.2	34.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	234.0	29.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	338.6	29.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	567.6	29.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	995.8	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1682.9	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2195.8	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1668.0	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	796.7	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	353.5	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	154.4	14.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.7	10.0	5.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.9	10.0	5.0	5.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0
85°	14.9	10.0	10.0	10.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0
87.5°	10.0	10.0	10.0	10.0	10.0	5.0	5.0	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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

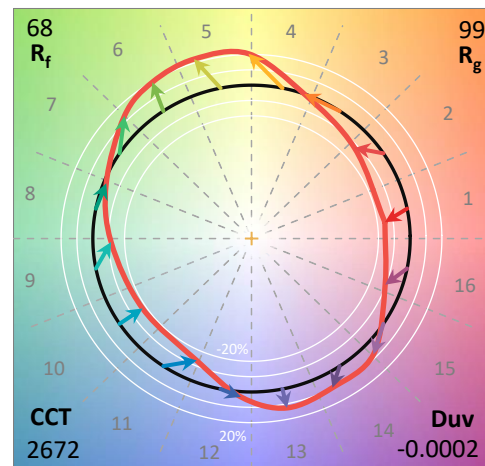
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

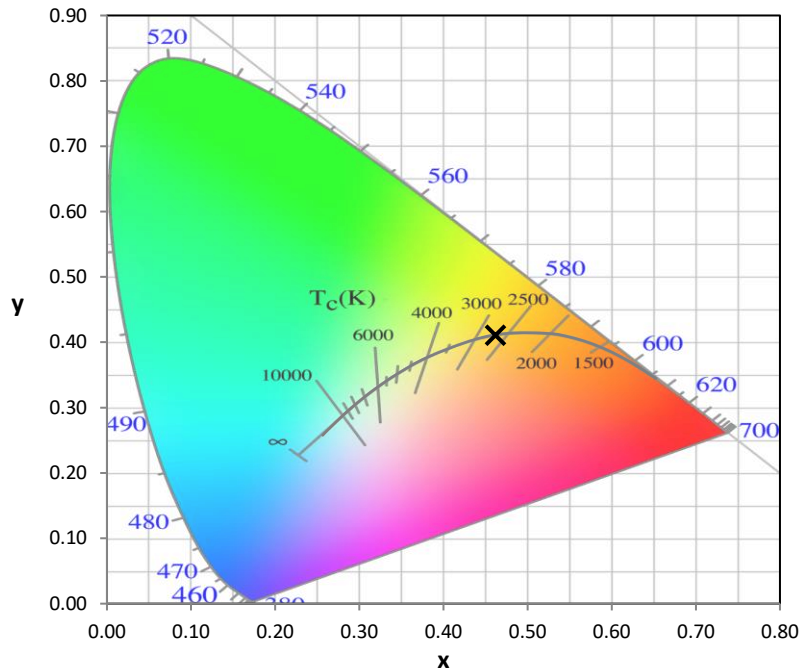
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

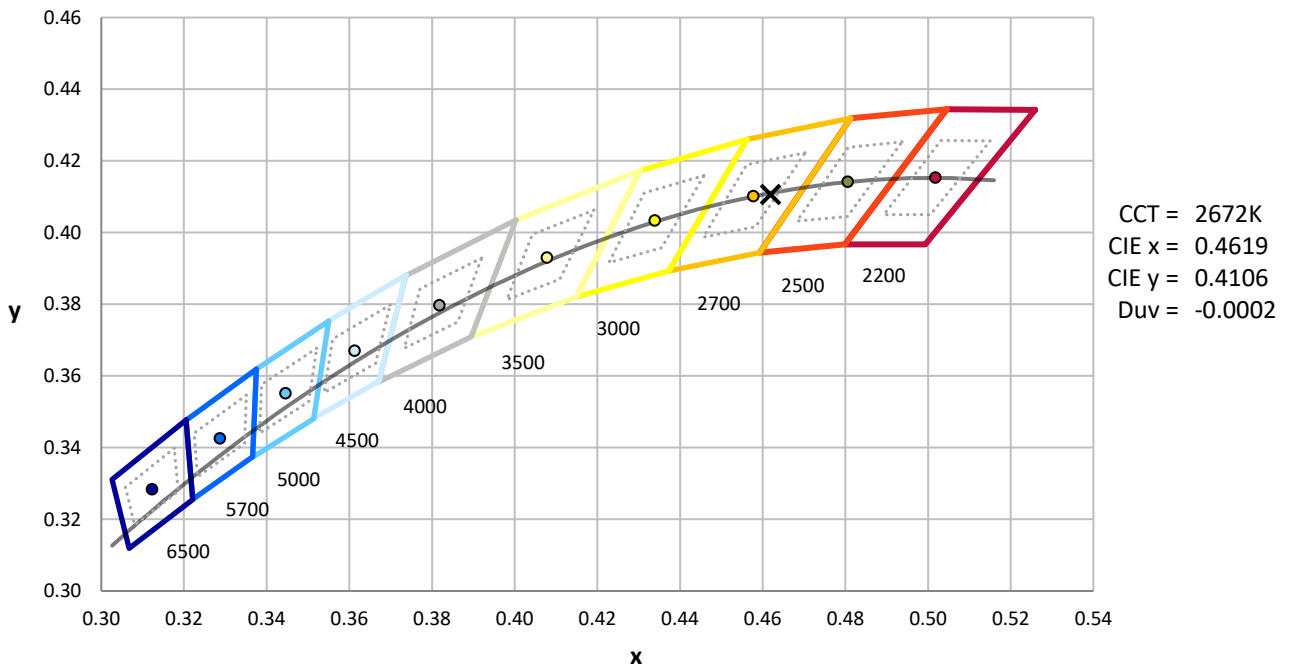
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



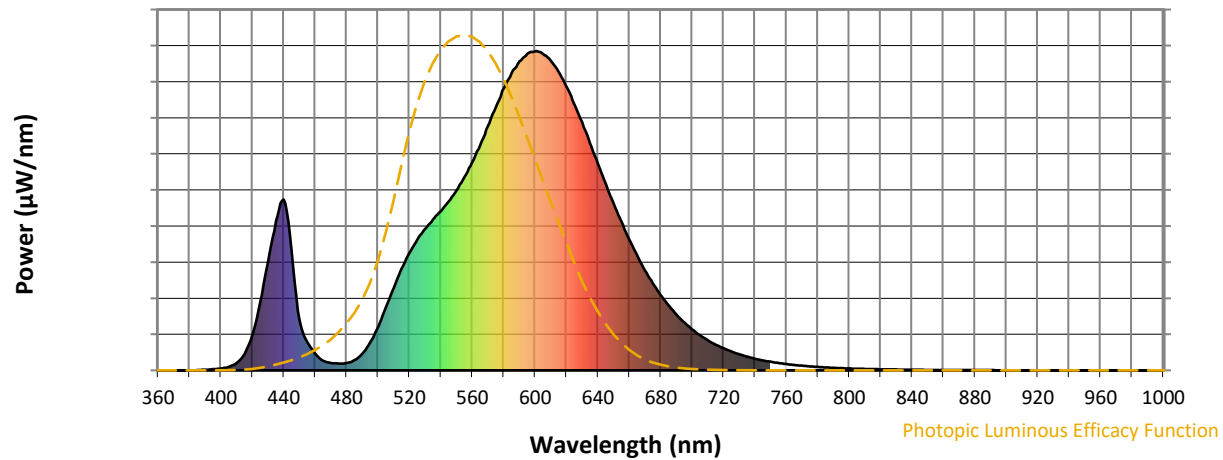
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

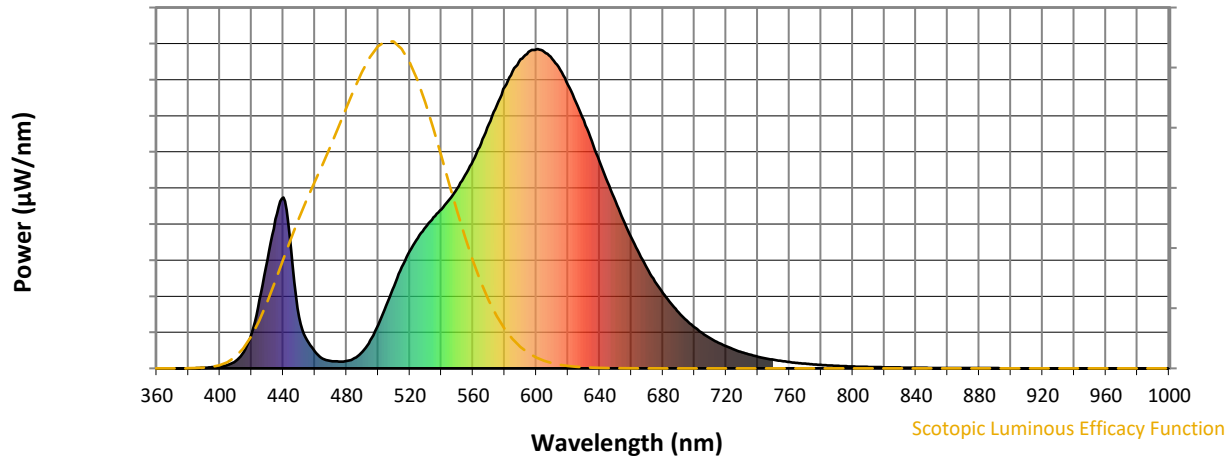


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



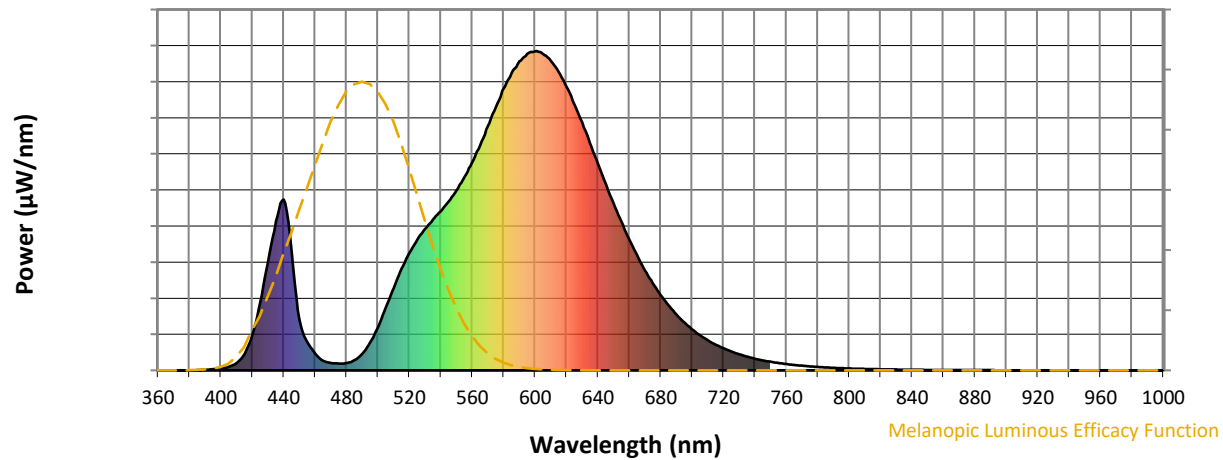
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

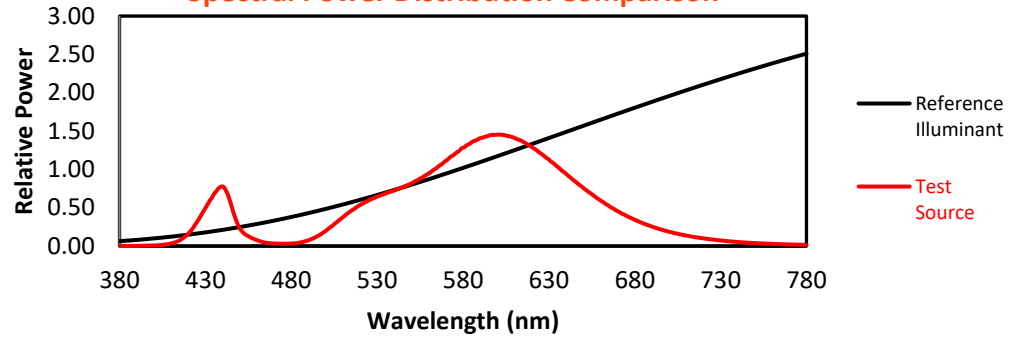
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TM-30-18

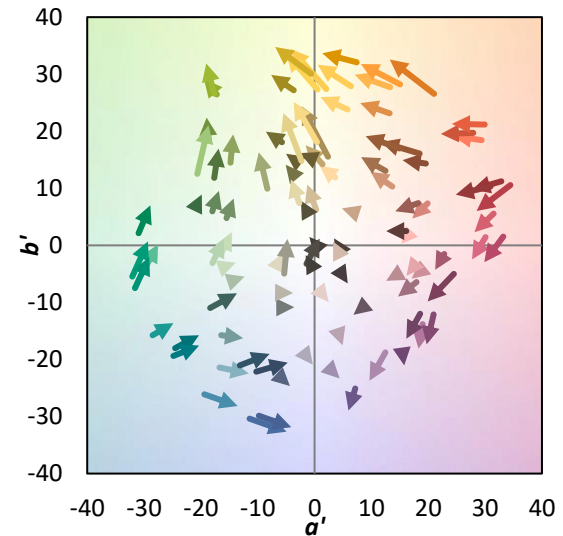
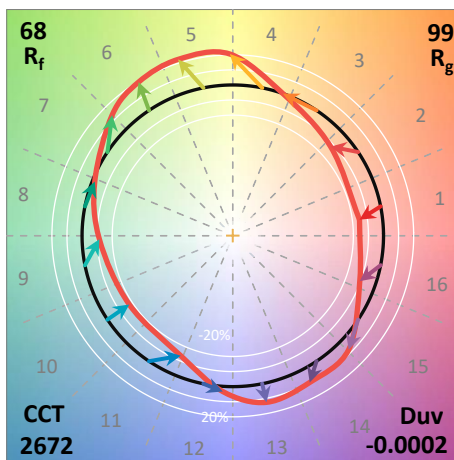
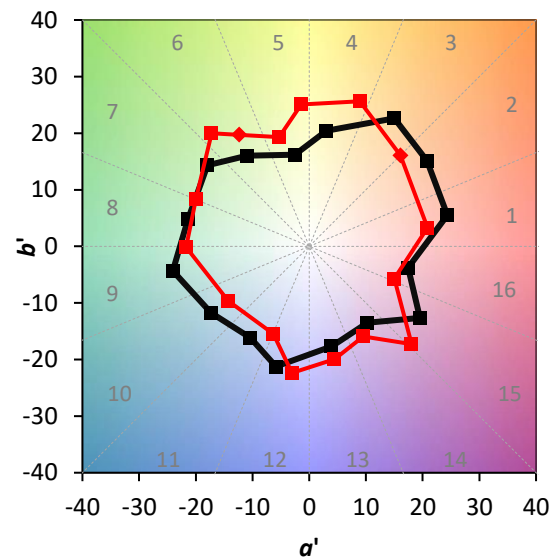
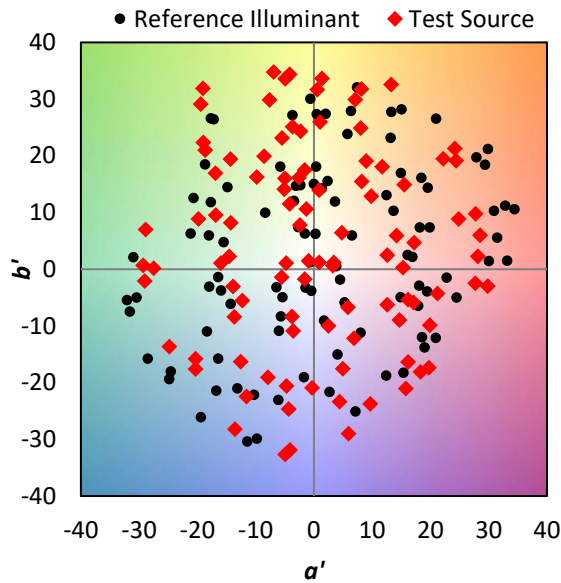
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

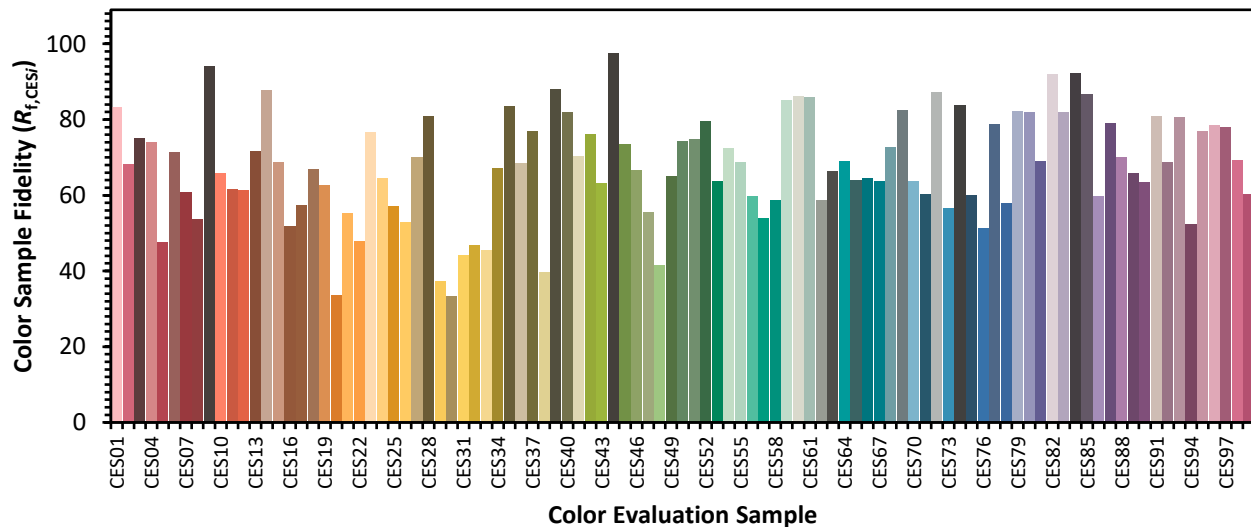


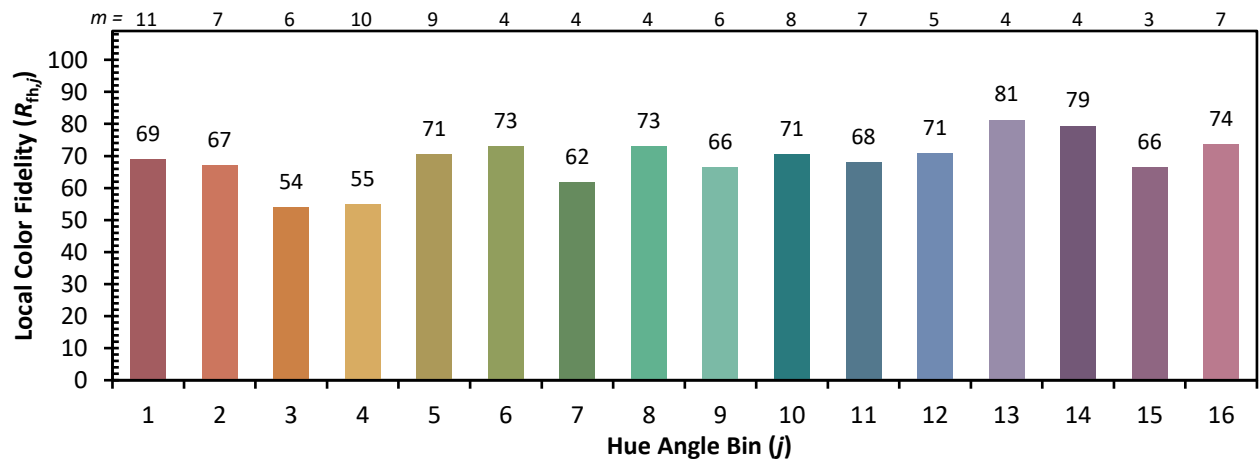
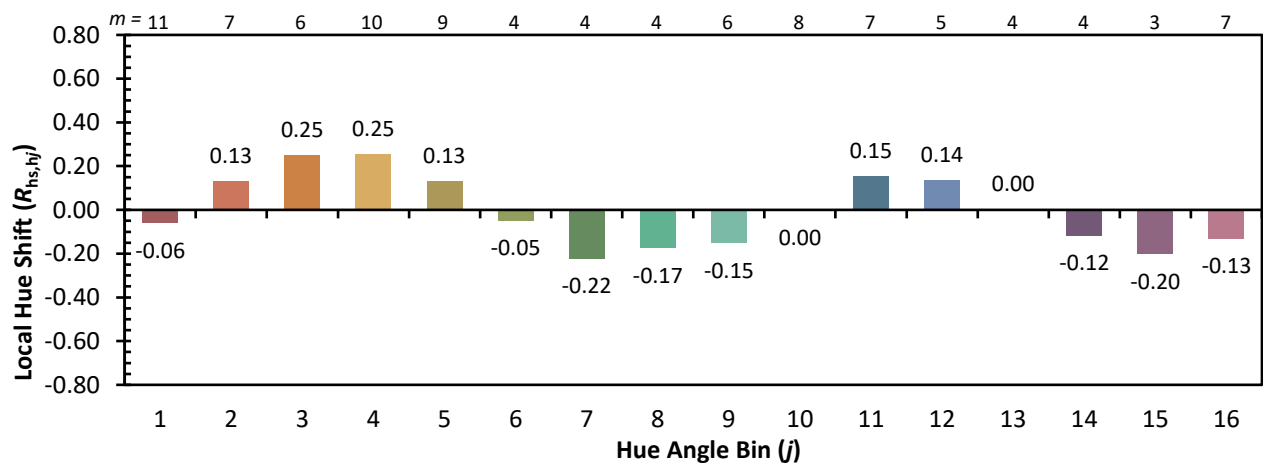
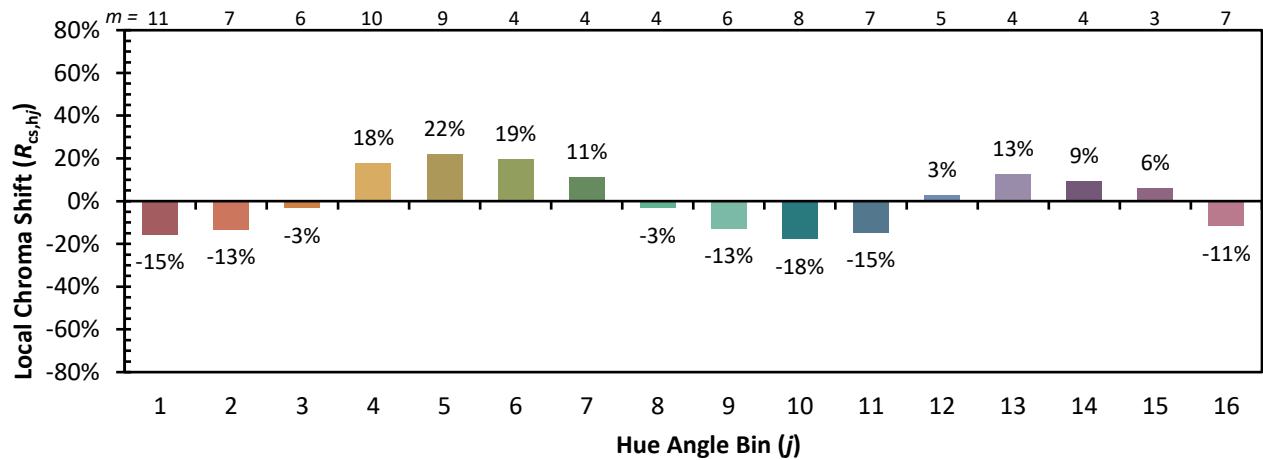
Color Vector Graphics



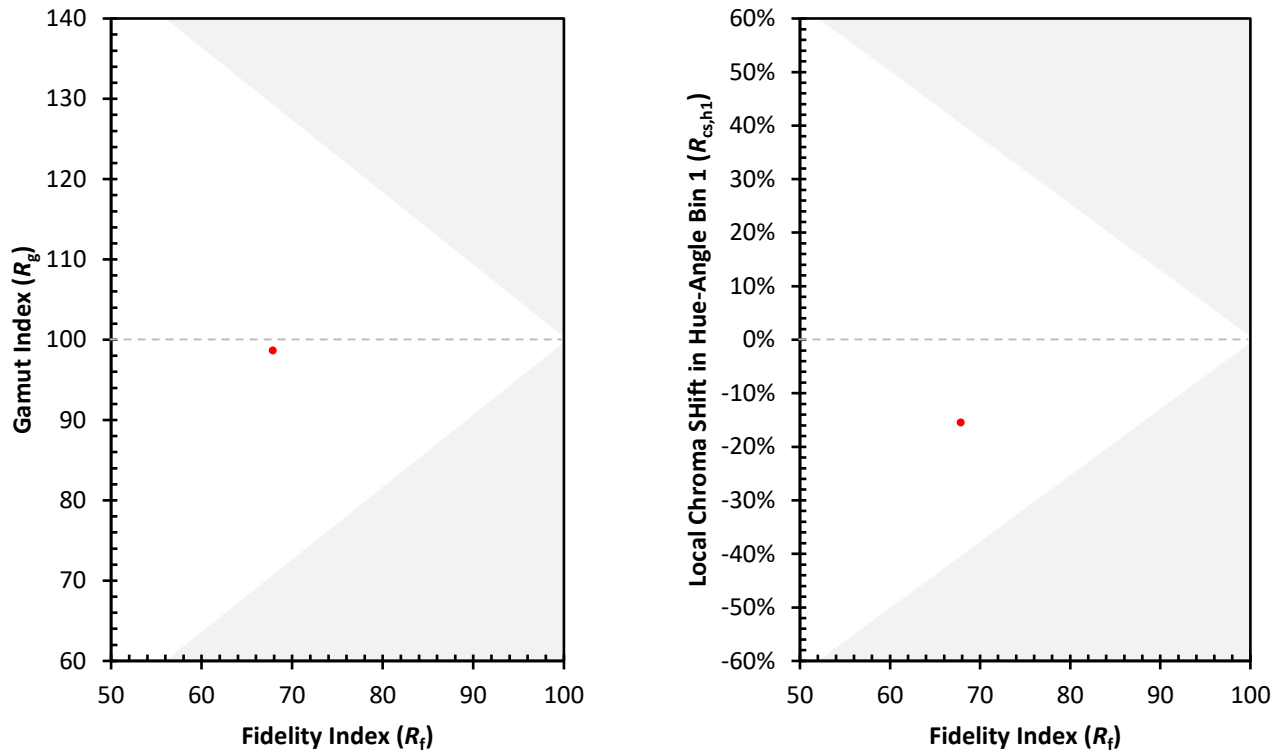
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)