

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: P1067452

Luminaire Tested: **NAV-SA4D-727-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067452
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4D-727-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 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: 20243.3 lumens
Efficiency: N/A
Efficacy: 92.5 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): 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

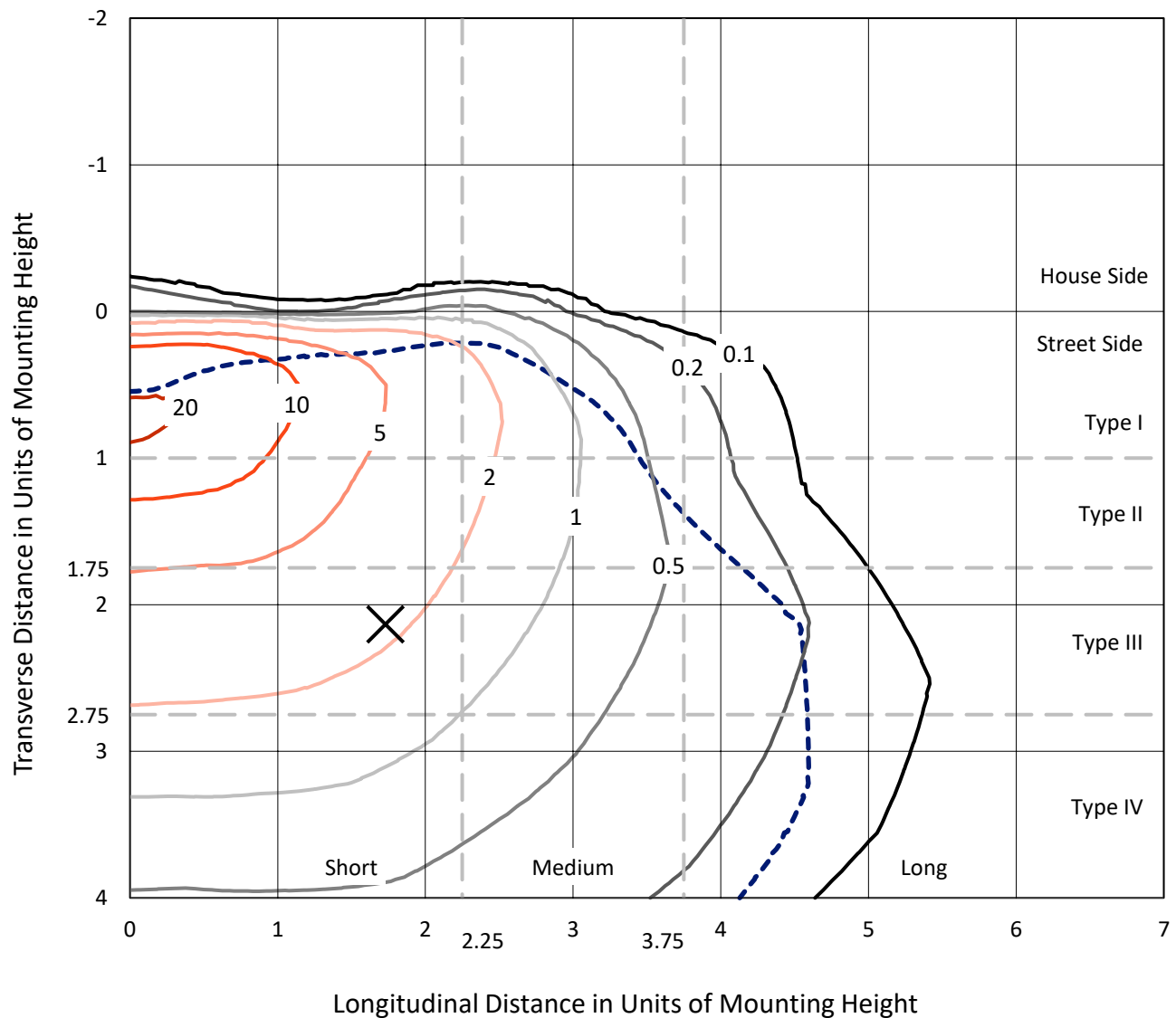


REPORT NUMBER: P1067452

CATALOG NUMBER: NAV-SA4D-727-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

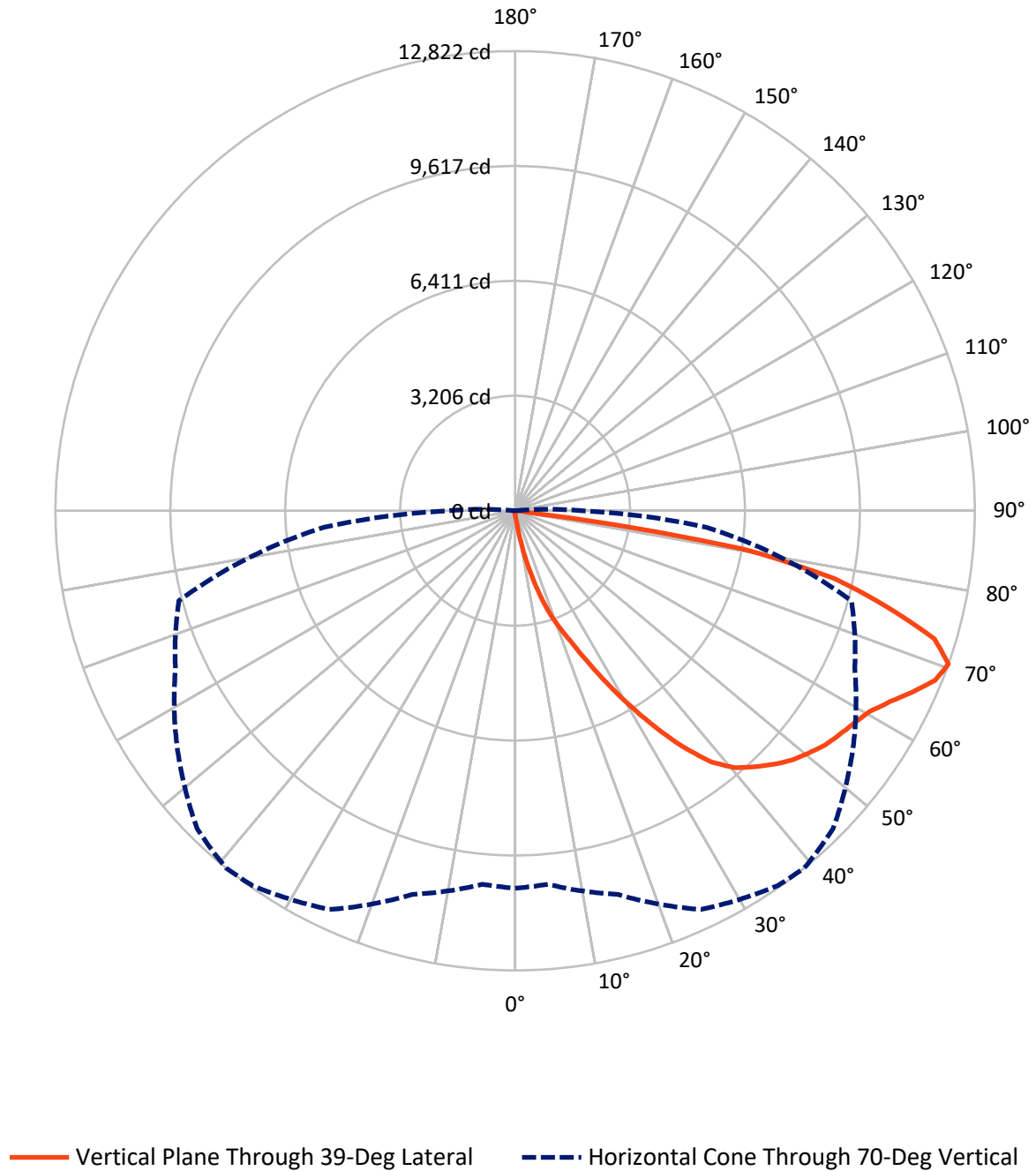


Based on 15 foot mounting height. Maximum calculated value = 22.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P1067452

CATALOG NUMBER: NAV-SA4D-727-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067452

CATALOG NUMBER: NAV-SA4D-727-U-T4BC

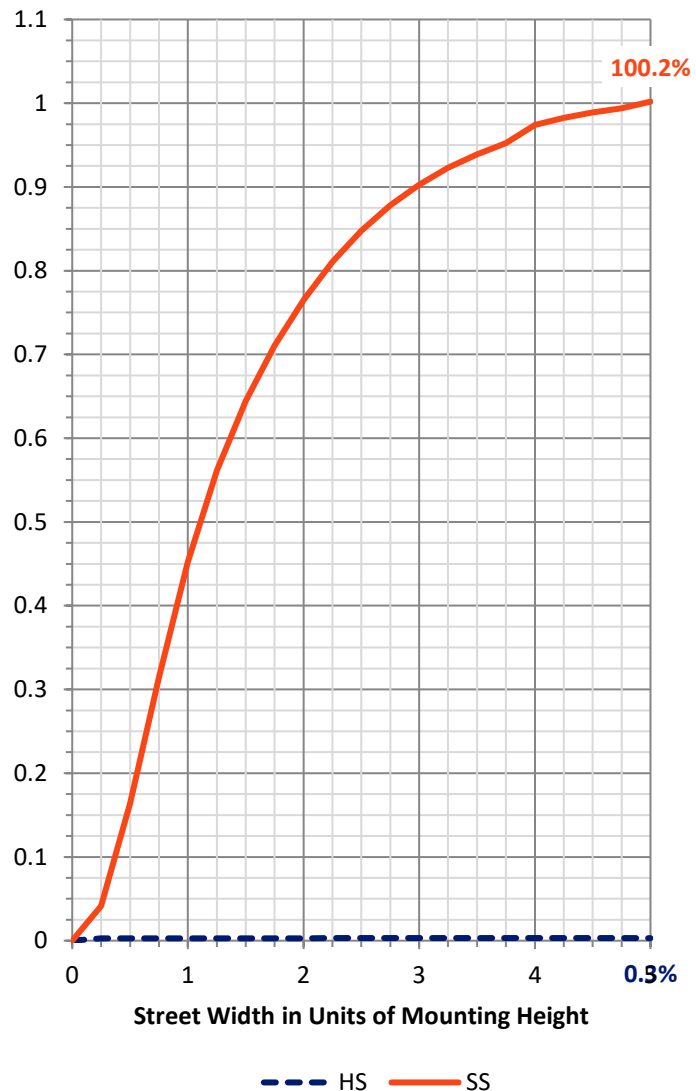
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	62.3	0.0	62.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	20181.0	0.0	20181.0
	% Fixture	99.7	0.0	99.7
Total	Lumens	20243.3	0.0	20243.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.1
10°-20°	248.9	1.2
20°-30°	844.5	4.2
30°-40°	1984.8	9.8
40°-50°	3222.9	15.9
50°-60°	4084.0	20.2
60°-70°	5187.8	25.6
70°-80°	4215.1	20.8
80°-90°	434.0	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°	20243.3	100.0
0°-180°	20243.3	100.0



REPORT NUMBER: P1067452

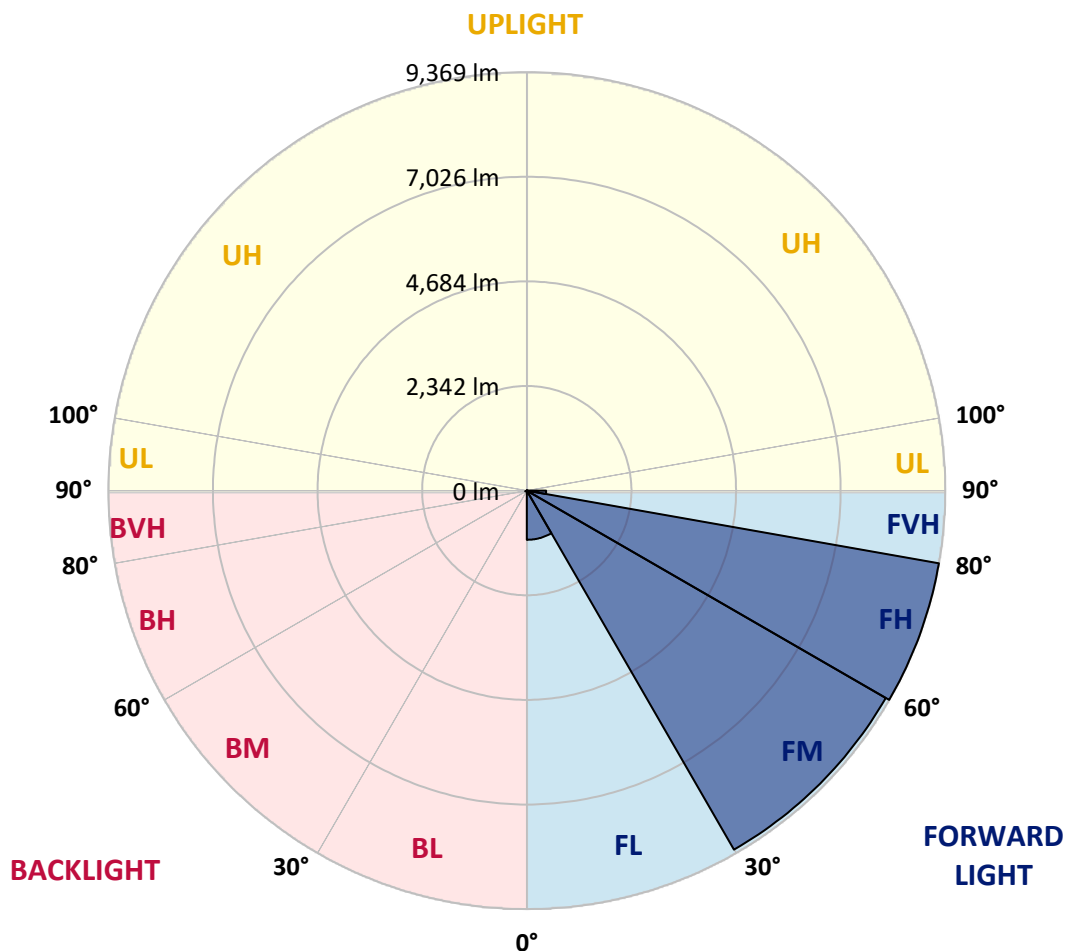
CATALOG NUMBER: NAV-SA4D-727-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.2	5.4			
FM	(30°-60°)	9279.7	45.8			
FH	(60°-80°)	9368.6	46.3			G4/12000
FVH	(80°-90°)	431.4	2.1			G3/500
BL	(0°-30°)	13.5	0.1	B0/110		
BM	(30°-60°)	12.0	0.1	B0/220		
BH	(60°-80°)	34.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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





REPORT NUMBER: P1067452

CATALOG NUMBER: NAV-SA4D-727-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9
2.5°	142.9	142.9	142.9	137.4	137.4	131.9	131.9	126.4	120.9	120.9	115.4
5°	269.3	274.8	258.3	225.3	203.4	192.4	181.4	153.9	137.4	126.4	115.4
7.5°	736.5	714.5	681.5	571.6	439.7	373.7	318.8	225.3	164.9	131.9	115.4
10°	1549.9	1489.4	1396.0	1247.6	989.3	884.9	687.0	412.2	230.8	148.4	115.4
12.5°	2275.3	2286.3	2170.9	2028.0	1714.7	1538.9	1269.6	774.9	362.7	175.9	115.4
15°	2824.9	2813.9	2770.0	2654.6	2374.3	2203.9	1962.1	1302.6	610.1	219.8	120.9
17.5°	3259.1	3215.2	3198.7	3149.2	2967.8	2874.4	2610.6	1918.1	967.3	296.8	126.4
20°	3693.3	3682.3	3665.8	3610.9	3490.0	3424.0	3220.7	2539.1	1440.0	423.2	137.4
22.5°	4325.3	4264.9	4275.9	4155.0	4056.0	3940.6	3775.7	3198.7	1984.1	604.6	153.9
25°	5067.3	5061.8	4973.9	4918.9	4754.0	4627.6	4407.8	3836.2	2588.6	873.9	170.4
27.5°	5941.2	5880.7	5842.2	5748.8	5578.4	5435.5	5133.3	4468.2	3242.6	1176.1	192.4
30°	6853.5	6853.5	6782.1	6639.2	6474.3	6298.4	5990.6	5133.3	3891.2	1560.9	219.8
32.5°	7919.7	7941.7	7765.8	7551.5	7337.2	7216.2	6815.0	5886.2	4512.2	2000.5	252.8
35°	8953.0	8925.5	8634.2	8397.9	8238.5	8106.6	7765.8	6710.6	5215.7	2511.7	296.8
37.5°	9942.3	9870.8	9387.2	9051.9	8980.5	8892.5	8551.8	7535.0	5913.7	3077.8	351.7
40°	10651.2	10541.3	10041.2	9579.5	9475.1	9425.6	9161.8	8282.5	6650.2	3709.8	423.2
42.5°	10959.0	10832.6	10486.4	10112.6	9881.8	9766.4	9535.5	8892.5	7386.6	4413.3	527.6
45°	11019.5	10920.5	10673.2	10585.3	10272.0	10096.1	9782.9	9326.7	8073.6	5111.3	670.5
47.5°	10799.6	10755.7	10607.3	10794.1	10634.7	10392.9	10013.7	9651.0	8683.7	5957.7	868.4
50°	10261.0	10228.0	10299.5	10788.6	10898.6	10623.8	10266.5	9903.8	9211.3	6831.5	1148.7
52.5°	9535.5	9530.1	9865.3	10645.7	11014.0	10843.6	10513.8	10156.6	9629.0	7677.9	1544.4
55°	8744.1	8837.6	9425.6	10513.8	11079.9	11003.0	10755.7	10381.9	10002.7	8463.8	2181.9
57.5°	8678.2	8639.7	9205.8	10458.9	11118.4	11162.4	10997.5	10618.3	10321.5	9106.9	3033.8
60°	9337.7	9249.8	9464.1	10574.3	11288.8	11365.7	11239.3	10799.6	10640.2	9612.5	4155.0
62.5°	10101.6	10019.2	10129.1	11019.5	11624.0	11733.9	11574.6	10986.5	10898.6	9964.2	5358.6
65°	10711.7	10645.7	10854.6	11684.5	12091.2	12184.6	12074.7	11332.7	11014.0	10250.0	6336.9
67.5°	10810.6	10728.2	11162.4	12129.7	12563.8	12629.8	12541.9	11668.0	10975.5	10272.0	6562.2
70°	10530.3	10458.9	11079.9	12272.6	12767.2	12822.2	12541.9	11508.6	10453.4	9711.4	5364.1
72.5°	9667.5	9722.4	10524.8	11926.3	12486.9	12234.1	11640.5	10706.2	9777.4	8233.0	3764.8
75°	8326.4	8386.9	9453.1	10975.5	11019.5	10711.7	10392.9	9848.8	8749.6	5424.5	2610.6
77.5°	5919.2	5704.8	7298.7	9062.9	8903.5	9101.4	9128.8	8194.5	7326.2	2824.9	1747.7
80°	582.6	494.6	917.8	2599.6	5743.3	6419.3	6683.1	6314.9	5402.6	1264.1	917.8
82.5°	126.4	126.4	137.4	148.4	230.8	346.2	1588.3	3891.2	3490.0	643.0	296.8
85°	71.4	71.4	87.9	104.4	137.4	153.9	181.4	241.8	939.8	230.8	55.0
87.5°	55.0	60.5	71.4	87.9	115.4	126.4	153.9	192.4	236.3	214.3	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067452

CATALOG NUMBER: NAV-SA4D-727-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9
2.5°	115.4	109.9	104.4	98.9	93.4	93.4	87.9	87.9	87.9	87.9	87.9
5°	109.9	104.4	98.9	87.9	82.4	76.9	71.4	71.4	71.4	71.4	71.4
7.5°	109.9	104.4	93.4	82.4	71.4	66.0	60.5	55.0	55.0	60.5	60.5
10°	109.9	98.9	82.4	71.4	60.5	55.0	49.5	44.0	44.0	44.0	44.0
12.5°	104.4	93.4	76.9	66.0	55.0	44.0	33.0	27.5	27.5	27.5	27.5
15°	98.9	87.9	71.4	55.0	38.5	27.5	22.0	16.5	16.5	16.5	16.5
17.5°	98.9	82.4	66.0	49.5	27.5	16.5	11.0	5.5	5.5	5.5	11.0
20°	98.9	82.4	60.5	38.5	16.5	11.0	11.0	5.5	0.0	5.5	5.5
22.5°	98.9	76.9	49.5	27.5	16.5	11.0	5.5	0.0	0.0	0.0	0.0
25°	104.4	76.9	44.0	22.0	11.0	5.5	0.0	0.0	0.0	0.0	0.0
27.5°	104.4	71.4	38.5	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
30°	109.9	71.4	33.0	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	109.9	66.0	22.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	109.9	60.5	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	109.9	55.0	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	115.4	49.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	120.9	44.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	126.4	38.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	142.9	38.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	164.9	38.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	197.9	38.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	258.3	33.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	373.7	33.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	626.5	33.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1099.2	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1857.6	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2423.7	38.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1841.2	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	879.4	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	390.2	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	170.4	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.0	11.0	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	11.0	5.5	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0
85°	16.5	11.0	11.0	11.0	5.5	5.5	5.5	0.0	0.0	0.0	0.0
87.5°	11.0	11.0	11.0	11.0	11.0	5.5	5.5	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

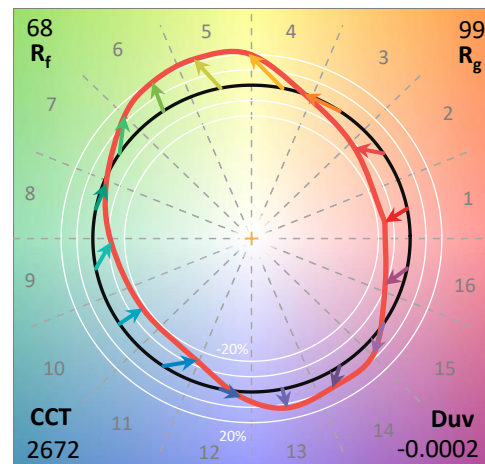
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

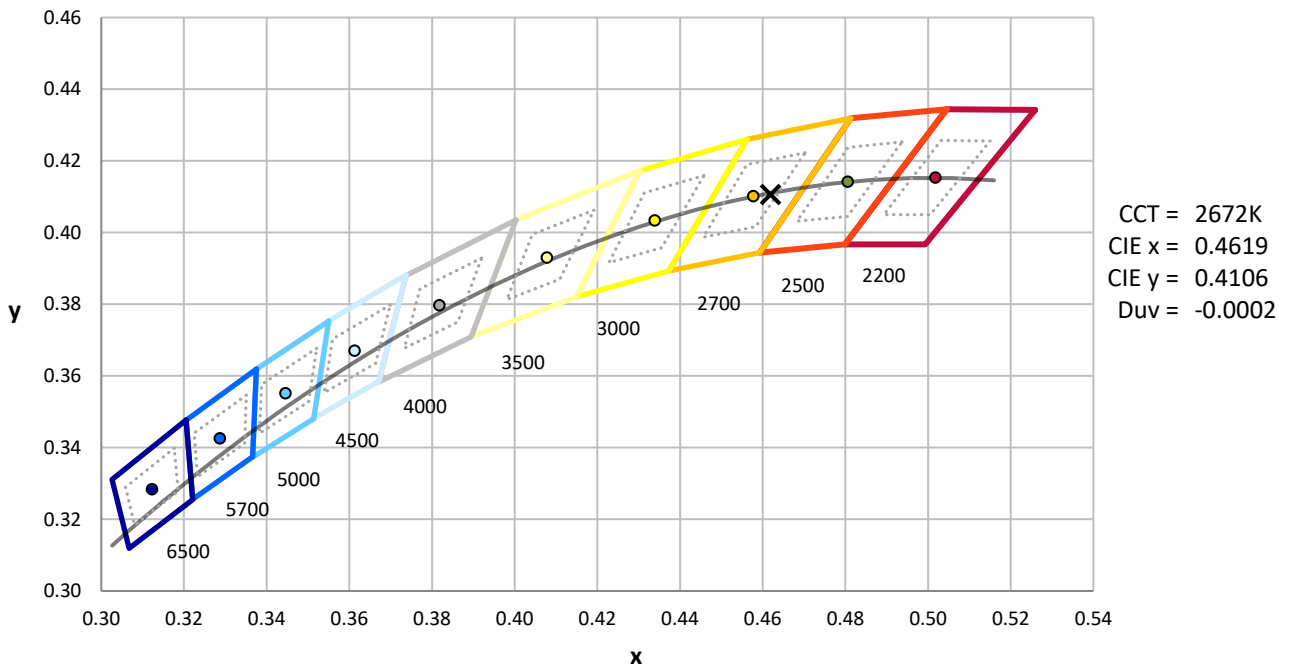
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

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

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

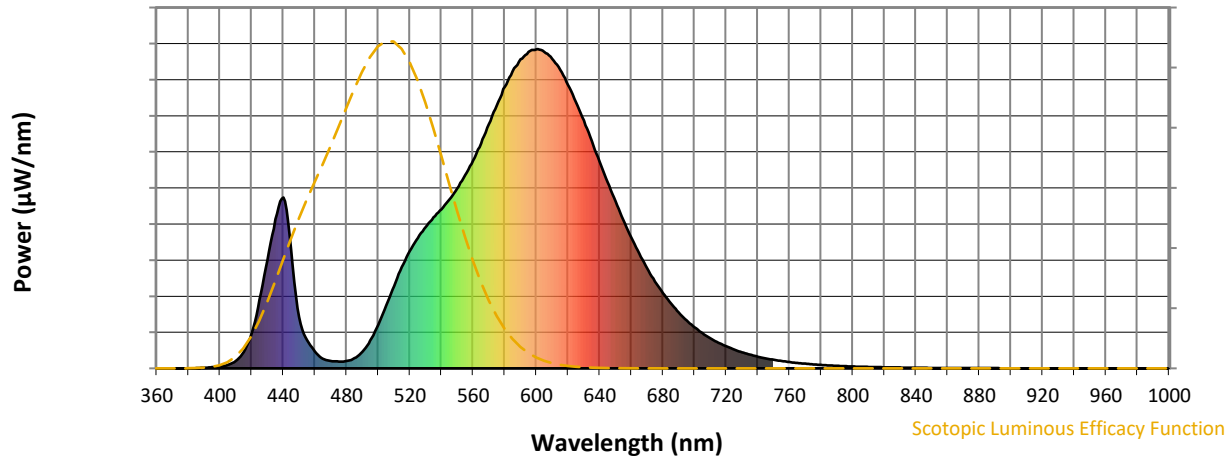


Photopic Lumens: NR

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	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			

REPORT NUMBER: SP1-2407-184-3

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			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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			

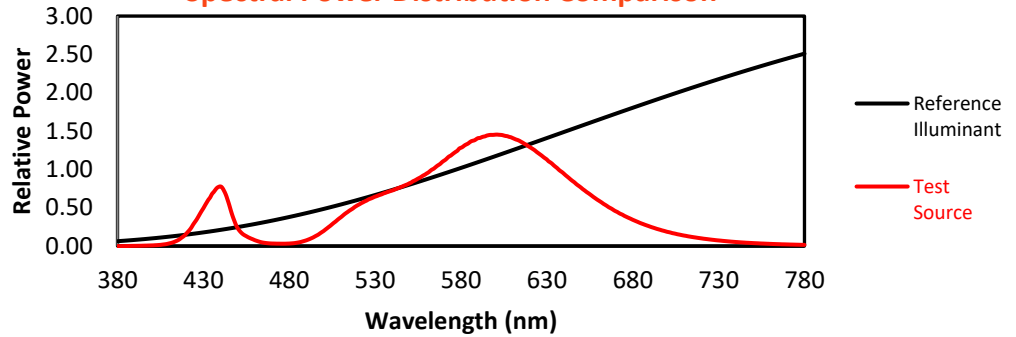
REPORT NUMBER: SP1-2407-184-3

TM-30-18

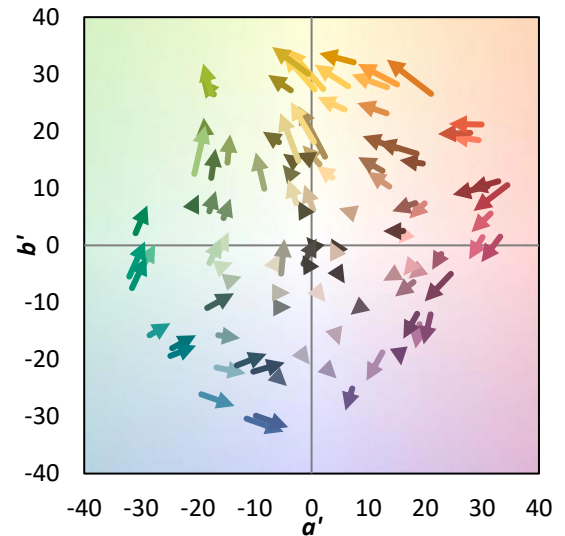
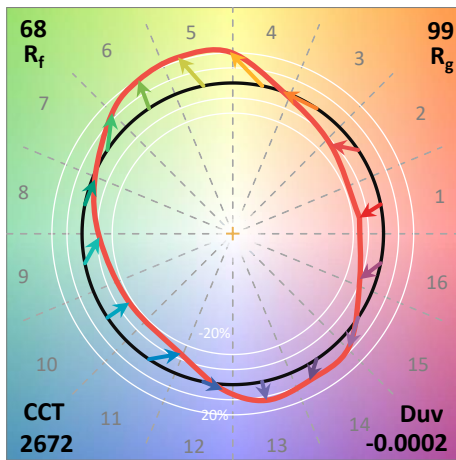
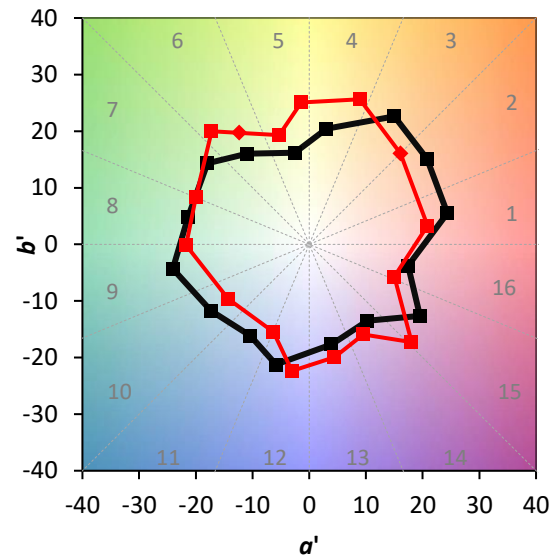
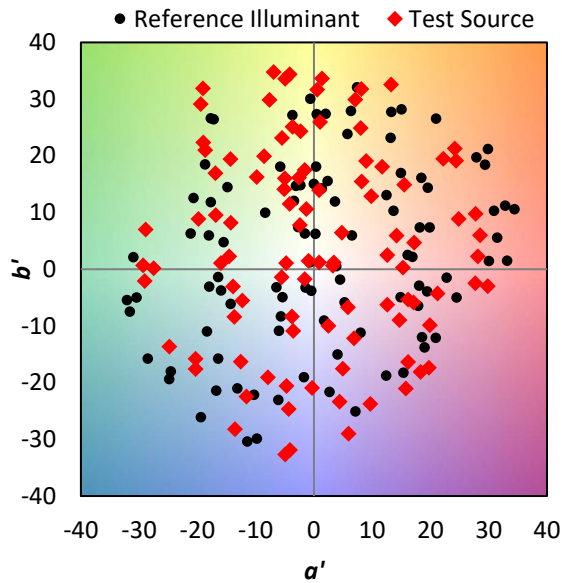
Summary

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

Spectral Power Distribution Comparison

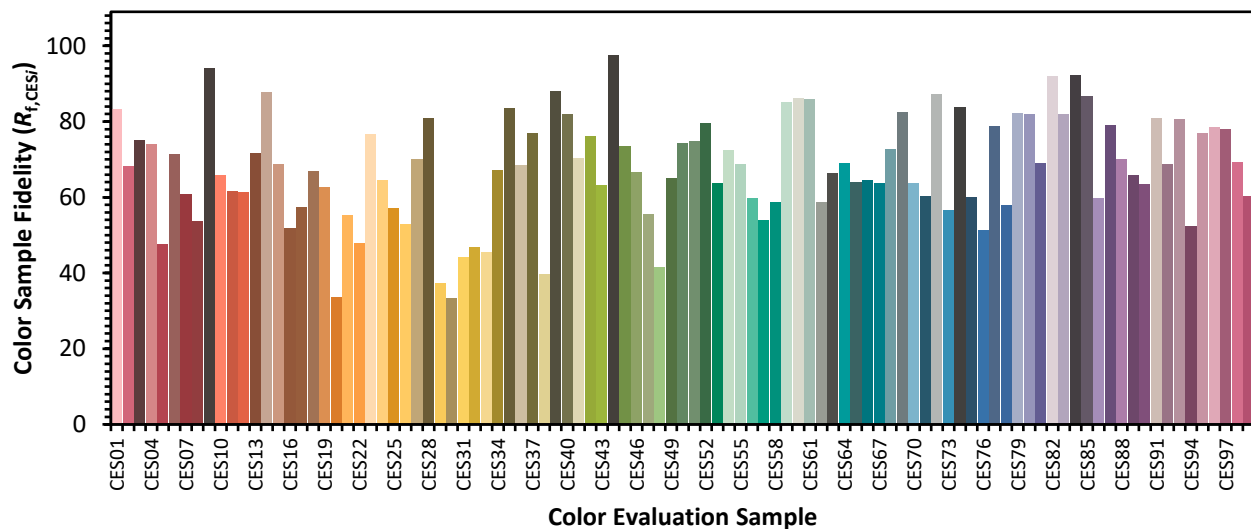


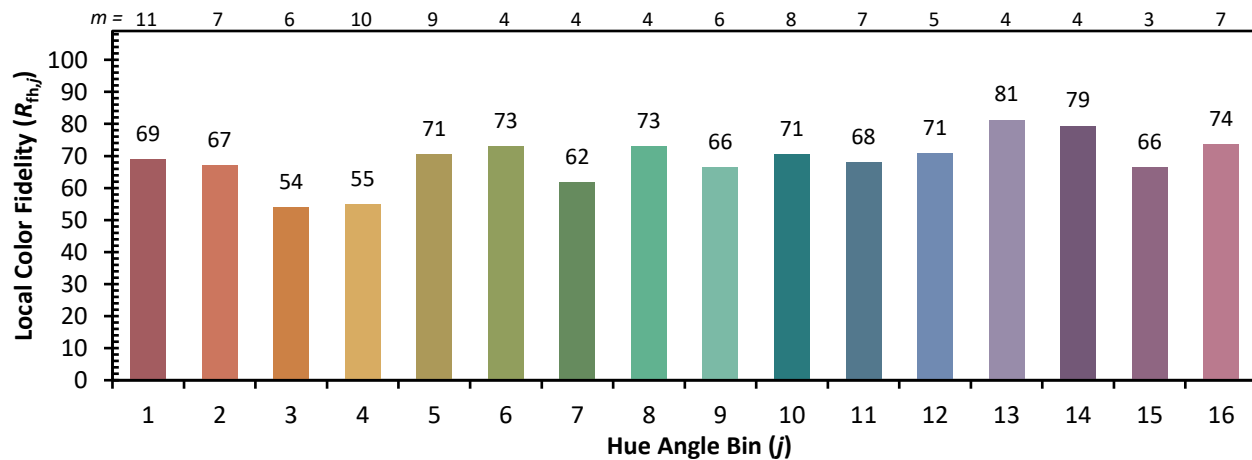
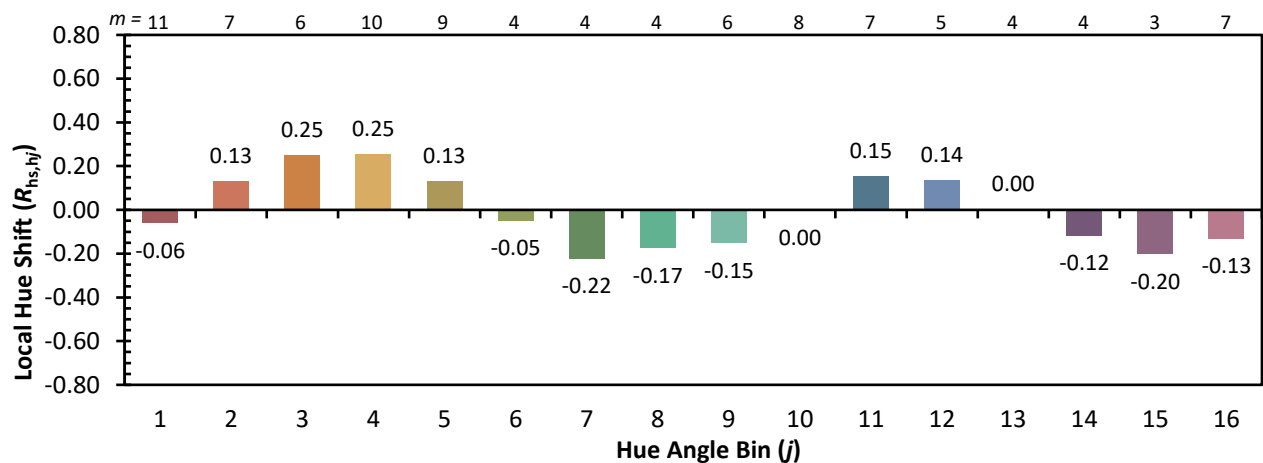
Color Vector Graphics



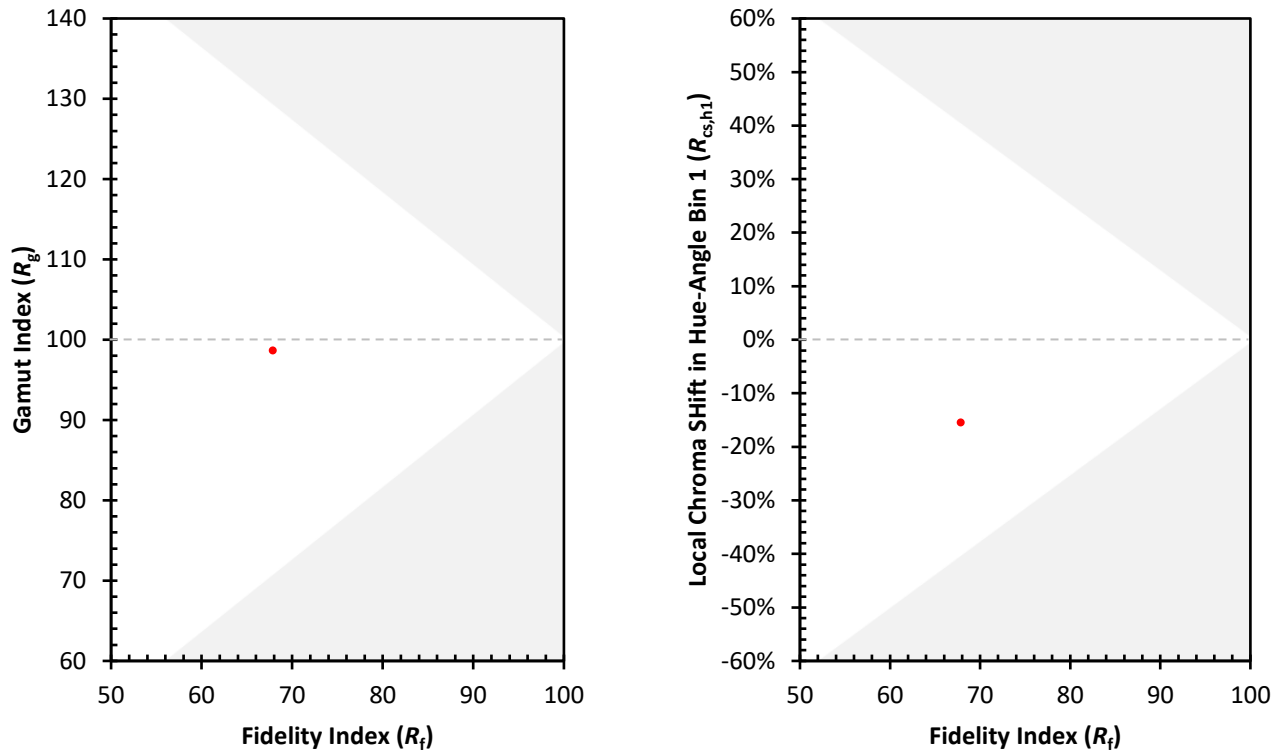
Individual Sample Fidelity Index ($R_{f,i}$)

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)