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

Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P630578

Luminaire Tested: GWS-SA1D-830-U-T3-W-HSS

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P630578
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1D-830-U-T3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3536.4 lumens
Efficiency:	N/A
Efficacy:	79.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	44.3
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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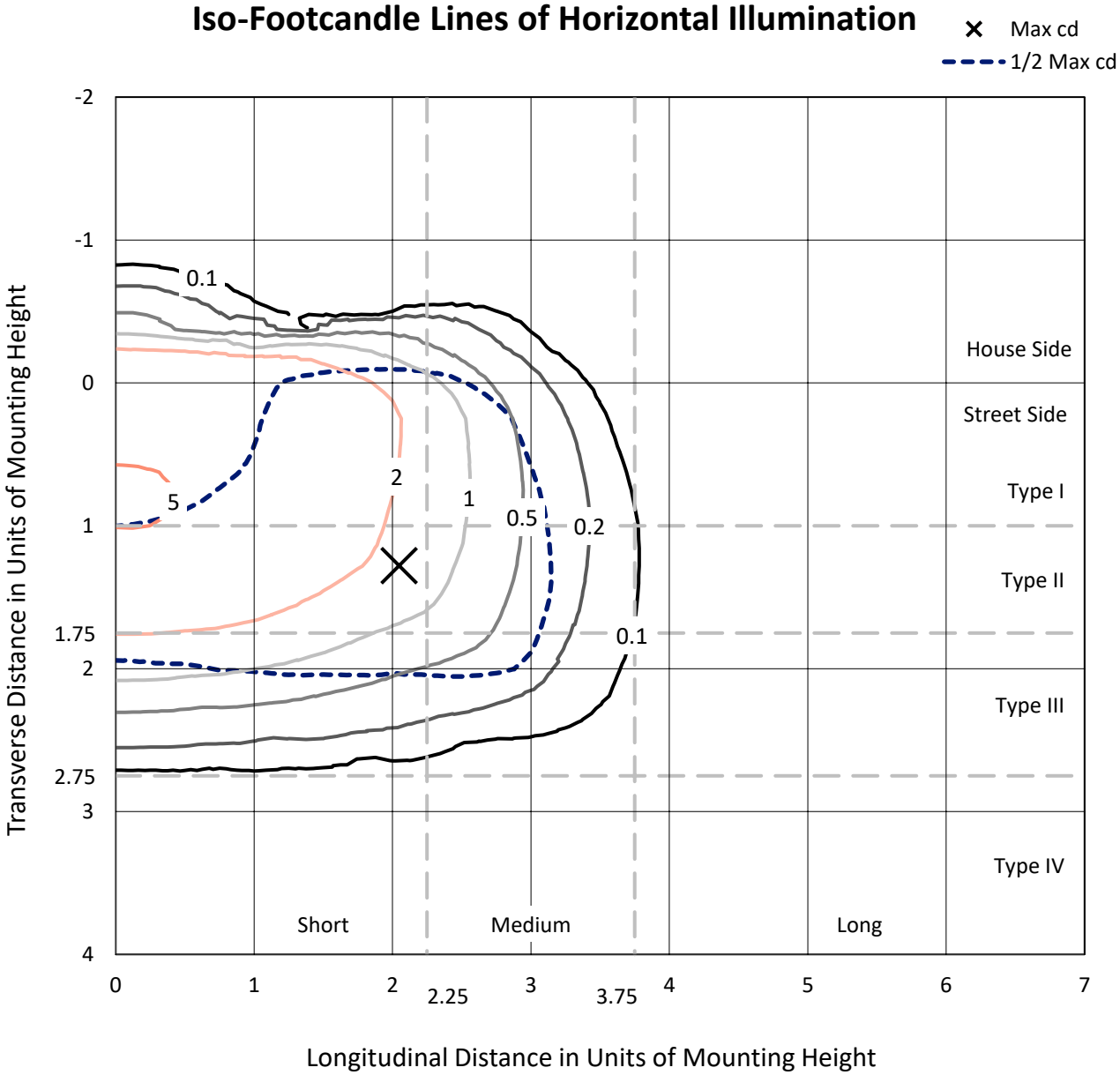
REPORT NUMBER: P630578
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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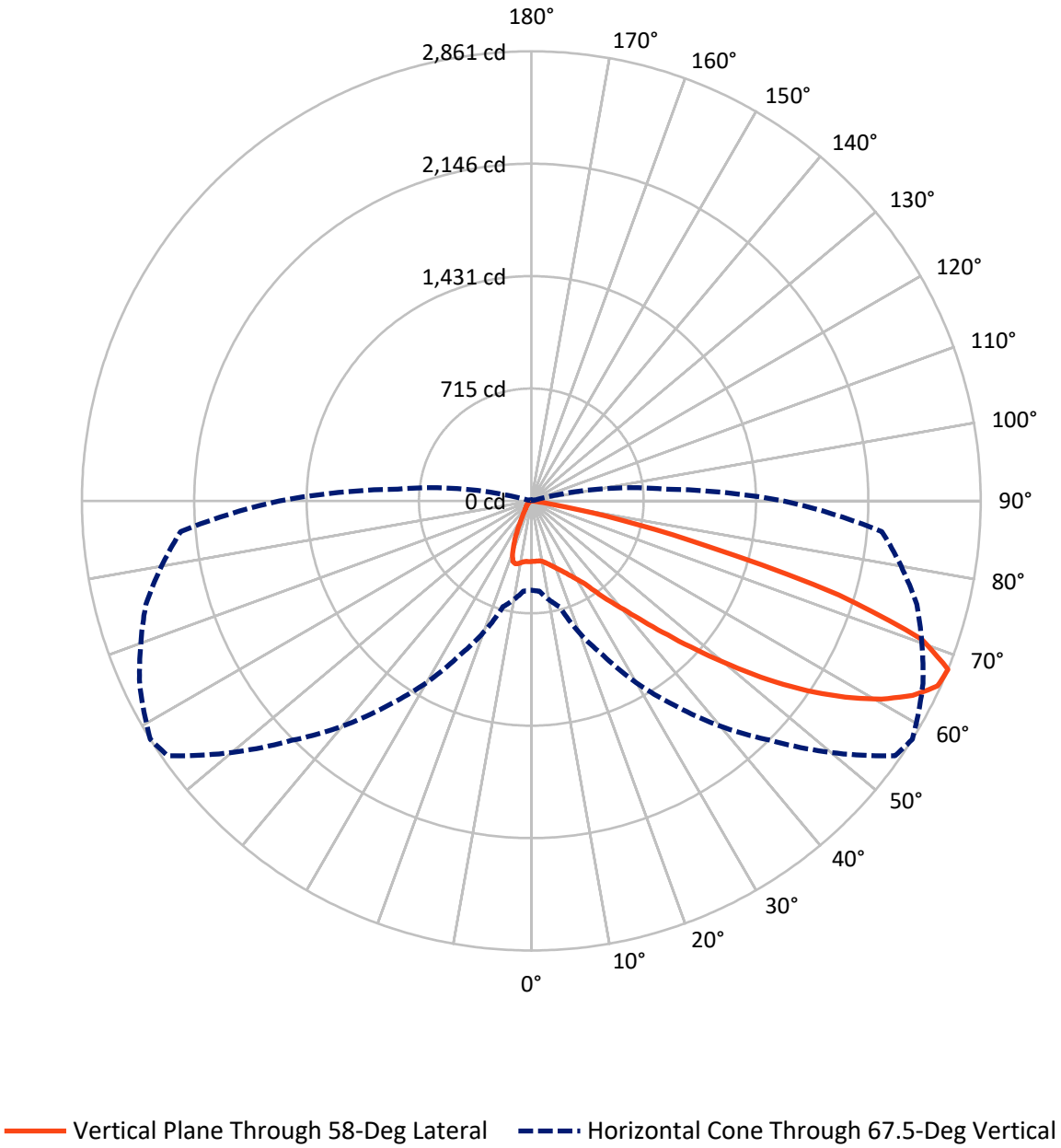
Luminous Intensity Polar Plot



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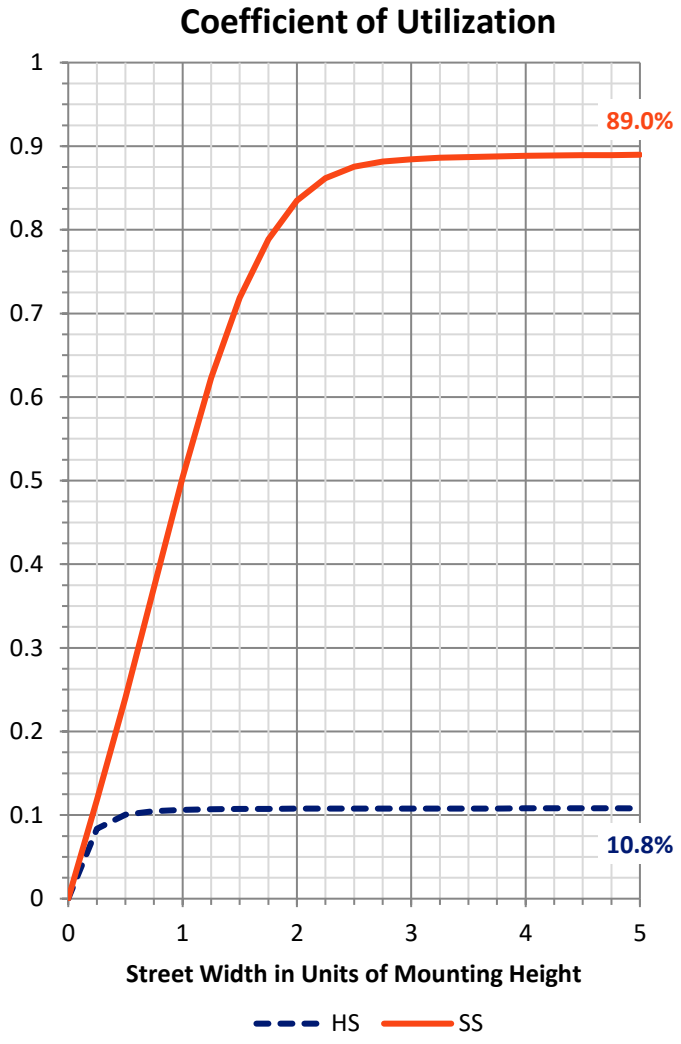
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.8	0.0	385.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3150.6	0.0	3150.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	3536.4	0.0	3536.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	1.0
10°-20°	101.6	2.9
20°-30°	177.4	5.0
30°-40°	316.8	9.0
40°-50°	579.1	16.4
50°-60°	963.1	27.2
60°-70°	1046.1	29.6
70°-80°	307.2	8.7
80°-90°	8.7	0.2
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°	3536.4	100.0
0°-180°	3536.4	100.0



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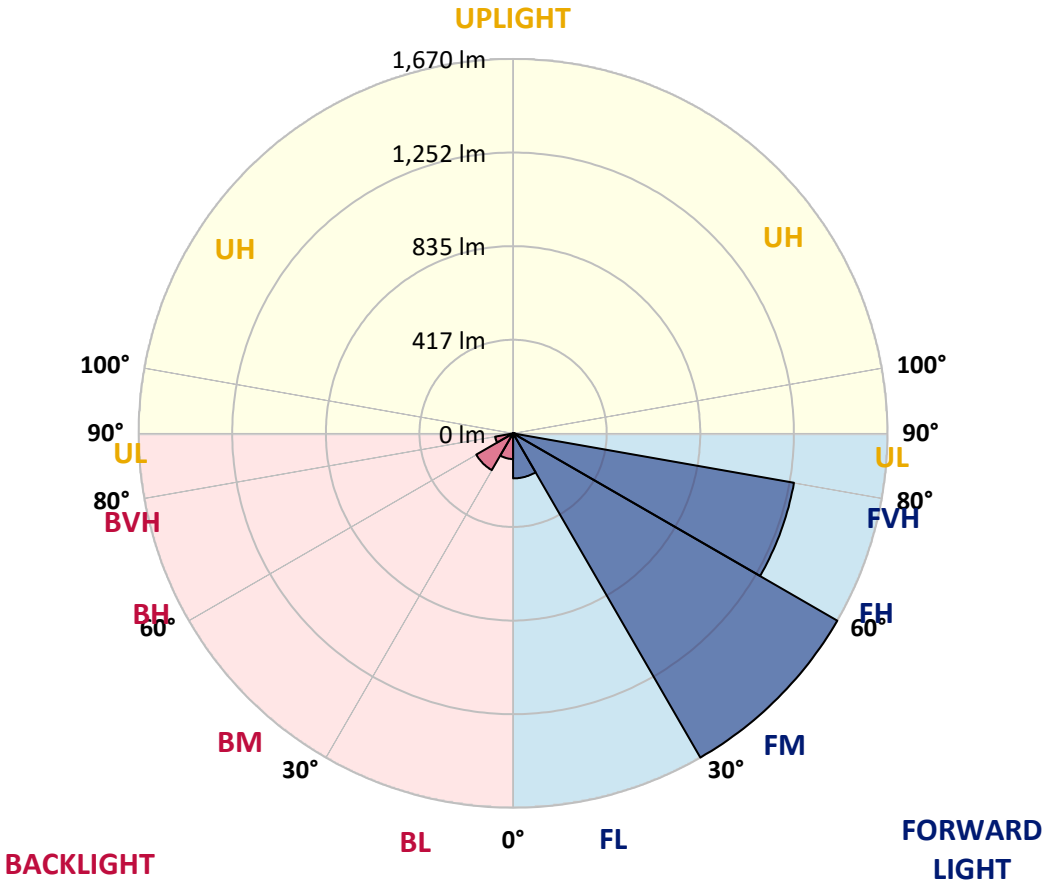
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	200.8	5.7			
FM	(30°-60°)	1669.6	47.2			
FH	(60°-80°)	1271.8	36.0			G1/1800
FVH	(80°-90°)	8.3	0.2			G0/10
BL	(0°-30°)	114.4	3.2	B1/500		
BM	(30°-60°)	189.5	5.4	B0/220		
BH	(60°-80°)	81.4	2.3	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Short



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REPORT NUMBER: P630578
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	378.1	377.4	377.4	380.2	380.5	381.9	385.0	385.4	387.1	386.4	384.0
5°	358.4	358.8	360.8	365.7	369.8	375.0	382.6	384.3	388.1	390.2	388.8
7.5°	340.1	340.5	343.6	351.2	359.1	369.5	381.9	385.4	393.0	398.5	398.8
10°	333.2	332.9	336.0	344.6	355.0	369.5	387.4	391.9	403.3	413.0	414.7
12.5°	335.3	334.9	338.1	346.0	357.4	375.7	397.1	403.3	417.8	432.7	435.8
15°	343.6	343.2	345.3	351.9	364.3	383.3	409.5	418.9	437.2	455.1	459.9
17.5°	368.4	366.7	364.6	365.3	372.6	392.3	425.4	436.8	459.6	481.0	485.2
20°	412.6	408.2	402.6	395.4	391.9	405.4	443.7	456.8	484.5	509.0	509.7
22.5°	479.3	477.6	464.8	443.7	428.9	429.2	465.1	480.3	514.2	541.1	537.3
25°	572.2	571.1	551.5	516.9	478.2	465.1	492.4	507.9	549.4	578.0	566.0
27.5°	687.5	680.3	657.1	610.5	552.8	511.7	526.9	540.7	586.7	613.6	590.8
30°	788.0	788.3	766.6	717.9	653.0	581.8	569.1	581.2	620.9	649.2	621.6
32.5°	884.7	887.8	864.0	820.1	749.0	673.3	629.5	631.6	664.7	695.4	662.0
35°	974.5	976.9	960.3	923.0	856.7	769.0	713.7	712.7	730.7	762.1	718.2
37.5°	1074.9	1077.4	1061.1	1027.6	965.5	878.5	809.4	808.0	815.3	840.8	790.8
40°	1182.0	1186.5	1168.5	1140.2	1080.8	1007.3	920.6	908.2	900.9	930.9	884.7
42.5°	1290.4	1297.3	1291.1	1262.8	1212.0	1151.3	1064.9	1045.6	1030.0	1067.7	1018.7
45°	1425.1	1433.4	1430.6	1408.9	1369.5	1320.1	1238.6	1216.2	1208.9	1243.8	1185.4
47.5°	1554.6	1563.5	1573.6	1568.7	1540.8	1518.0	1427.5	1414.7	1412.6	1449.9	1359.5
50°	1650.9	1659.2	1697.5	1725.2	1744.1	1739.3	1660.9	1641.9	1638.8	1662.7	1543.2
52.5°	1720.0	1727.9	1780.7	1867.1	1936.8	1974.8	1895.7	1891.6	1874.7	1866.4	1715.1
55°	1773.5	1784.5	1840.1	1970.7	2111.2	2195.5	2146.1	2131.2	2087.7	2040.1	1874.7
57.5°	1784.2	1788.7	1867.1	2043.2	2246.6	2383.0	2383.0	2357.1	2273.2	2207.2	2059.1
60°	1688.2	1702.0	1808.0	2037.3	2304.6	2505.5	2579.4	2561.5	2448.2	2367.1	2236.5
62.5°	1475.1	1490.7	1619.8	1896.8	2246.6	2530.8	2728.3	2725.5	2597.7	2499.3	2383.7
65°	1131.2	1142.6	1255.2	1586.7	2001.4	2433.7	2834.6	2842.2	2715.8	2586.7	2434.4
67.5°	568.4	576.3	697.9	1083.9	1586.3	2154.4	2827.4	2861.2	2751.7	2540.4	2240.7
70°	198.6	206.5	263.8	465.1	965.5	1645.0	2582.9	2638.1	2540.8	2168.5	1653.0
72.5°	68.0	71.8	109.5	172.7	375.7	975.1	1964.1	2047.3	1872.9	1455.8	949.9
75°	38.7	41.1	58.7	93.6	157.5	320.8	1114.3	1165.4	1091.9	793.5	390.9
77.5°	26.2	28.3	36.6	53.2	87.0	103.2	454.4	572.2	499.0	259.0	99.8
80°	15.5	16.9	22.4	31.4	44.5	40.1	97.4	129.5	166.8	77.3	30.0
82.5°	7.3	8.3	14.5	20.7	22.4	16.9	28.7	34.9	47.0	38.0	12.4
85°	0.0	0.0	4.8	8.6	8.3	4.8	7.9	8.6	12.8	19.0	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.0	2.1	3.8	2.1
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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REPORT NUMBER: P630578
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	386.7	384.3	387.1	385.7	387.1	386.7	384.0	382.3	382.3	379.1	378.1
5°	391.6	389.2	389.9	386.7	386.1	384.3	380.9	379.5	379.5	376.4	375.3
7.5°	402.3	398.5	397.8	391.6	388.8	384.0	377.8	375.3	375.0	371.9	370.9
10°	419.2	414.7	411.6	403.7	395.7	386.1	372.9	361.9	355.7	347.4	346.7
12.5°	439.9	434.4	429.6	417.5	404.4	382.6	343.9	303.5	278.7	259.0	260.4
15°	463.1	457.9	450.3	432.0	405.0	348.4	267.6	205.5	175.1	158.8	158.2
17.5°	488.3	480.7	468.2	443.4	383.3	266.2	174.0	122.9	107.0	101.5	100.1
20°	511.7	502.4	486.9	445.8	320.4	180.2	108.8	95.3	92.5	90.8	90.8
22.5°	536.6	524.9	501.7	427.1	238.3	115.3	92.5	89.4	87.4	84.9	84.6
25°	561.8	546.6	515.2	378.5	156.1	90.8	86.7	83.2	79.4	75.6	74.6
27.5°	583.2	563.5	525.6	305.9	100.1	81.8	79.1	73.2	68.0	63.9	63.2
30°	608.8	583.6	530.0	223.8	78.7	72.2	68.0	61.8	55.6	51.5	50.1
32.5°	643.0	615.3	523.1	145.7	69.8	63.5	57.0	49.7	43.5	39.0	38.3
35°	696.1	663.3	491.4	92.9	63.2	54.9	47.0	39.4	34.2	30.7	30.0
37.5°	761.1	730.7	439.2	69.8	56.6	47.7	38.3	31.1	27.3	24.9	24.2
40°	857.4	814.9	374.7	61.1	50.1	40.4	31.4	25.6	22.8	20.7	20.0
42.5°	982.4	914.4	300.4	55.6	43.9	33.8	25.6	21.1	18.6	17.3	16.9
45°	1128.5	1011.4	222.0	50.1	38.0	28.0	21.1	17.3	15.5	14.5	14.2
47.5°	1278.0	1096.3	153.3	44.2	32.5	23.1	17.6	14.8	13.5	12.1	11.7
50°	1437.5	1168.2	104.6	38.3	27.6	19.0	15.2	13.5	11.7	10.7	10.4
52.5°	1554.6	1194.8	72.9	33.1	23.5	16.2	13.5	12.1	10.7	9.3	9.0
55°	1662.7	1194.1	55.2	28.0	20.0	14.2	12.1	10.7	9.3	8.3	7.9
57.5°	1770.4	1184.7	43.5	23.8	17.3	12.8	10.7	9.3	8.6	7.3	6.9
60°	1840.1	1149.5	33.8	20.0	14.8	11.0	9.3	8.3	7.3	6.2	5.9
62.5°	1877.1	1100.5	25.9	15.9	12.1	9.7	8.3	7.3	6.2	5.2	4.8
65°	1827.0	1013.5	20.4	12.4	9.3	8.3	6.9	5.9	4.8	3.8	3.5
67.5°	*1605.0*	*854.6*	*15.9*	*10.0*	*7.3*	*6.2*	*5.9*	*4.8*	*3.5*	*2.8*	*2.4*
70°	1134.3	585.3	12.4	7.6	5.5	4.8	4.5	3.8	2.8	2.1	1.7
72.5°	622.6	295.2	9.0	5.5	4.1	3.8	3.5	3.1	2.4	1.7	1.7
75°	239.6	81.1	6.6	3.8	2.8	2.8	2.4	2.4	2.1	1.4	1.4
77.5°	62.5	24.2	4.1	2.4	1.7	1.7	1.7	1.4	1.4	1.0	1.0
80°	20.0	7.9	2.4	1.7	1.4	1.0	1.0	0.7	1.0	0.7	0.7
82.5°	6.6	2.8	1.4	1.4	1.0	0.7	0.7	0.3	0.3	0.0	0.0
85°	2.4	1.4	1.0	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0
87.5°	1.4	0.7	0.7	0.7	0.7	0.3	0.0	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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

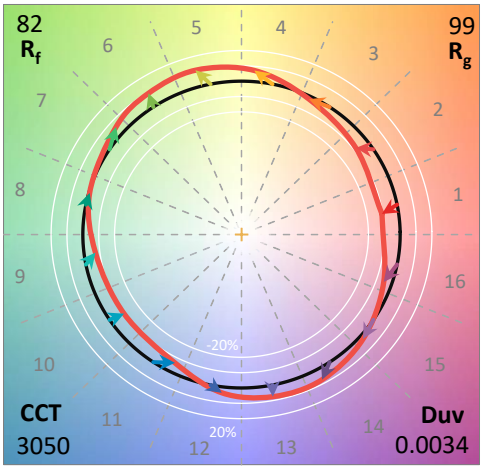
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

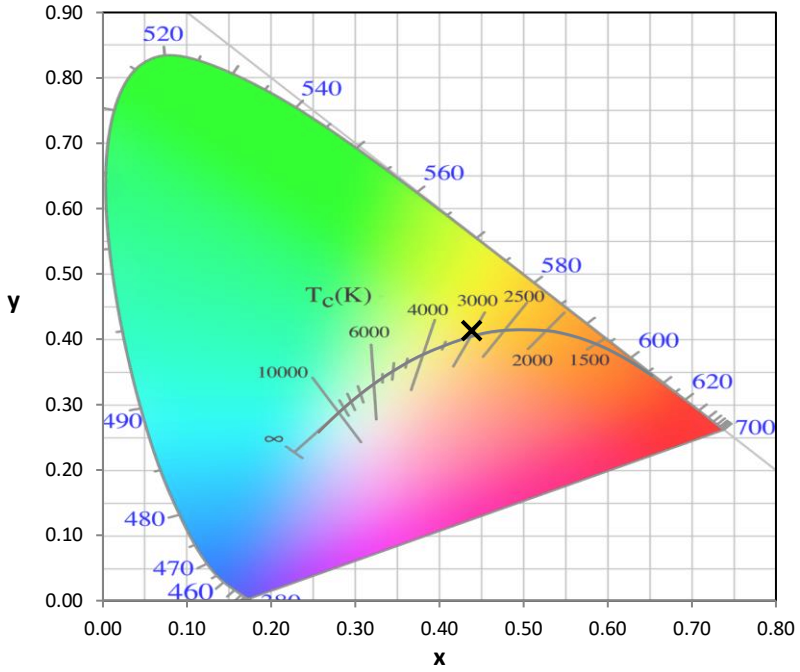
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

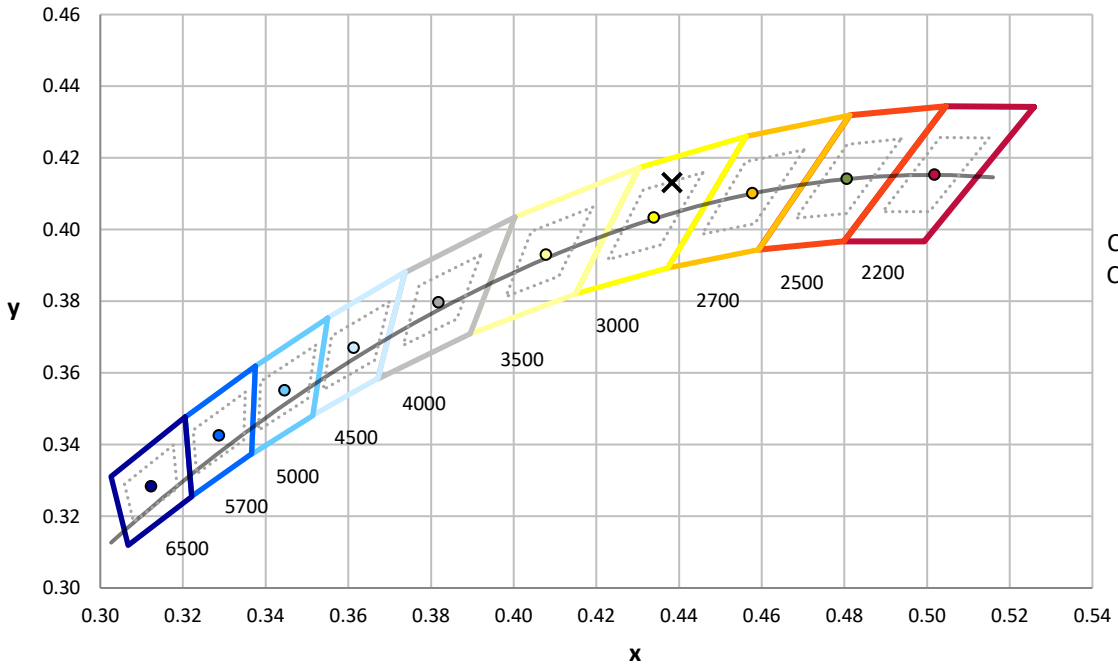
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

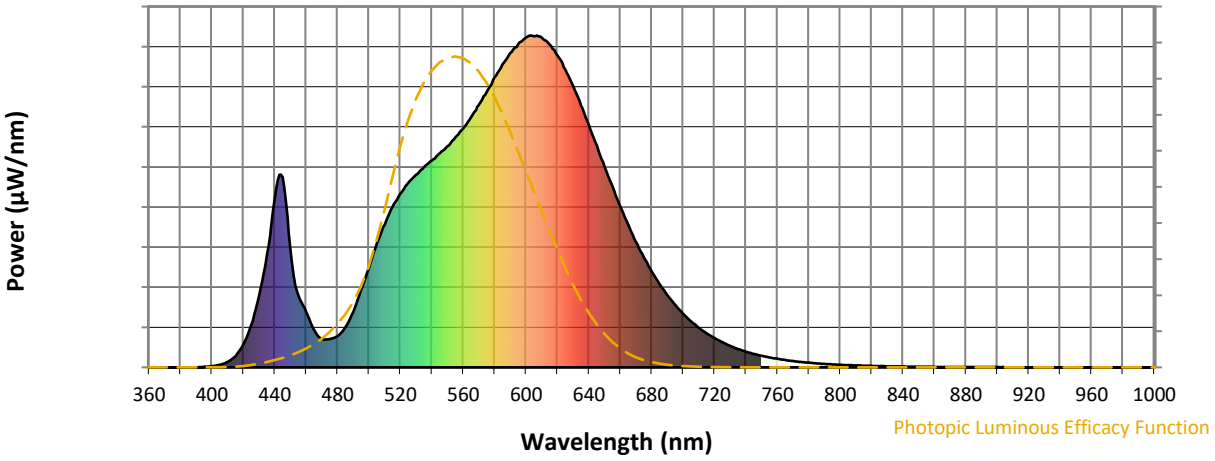


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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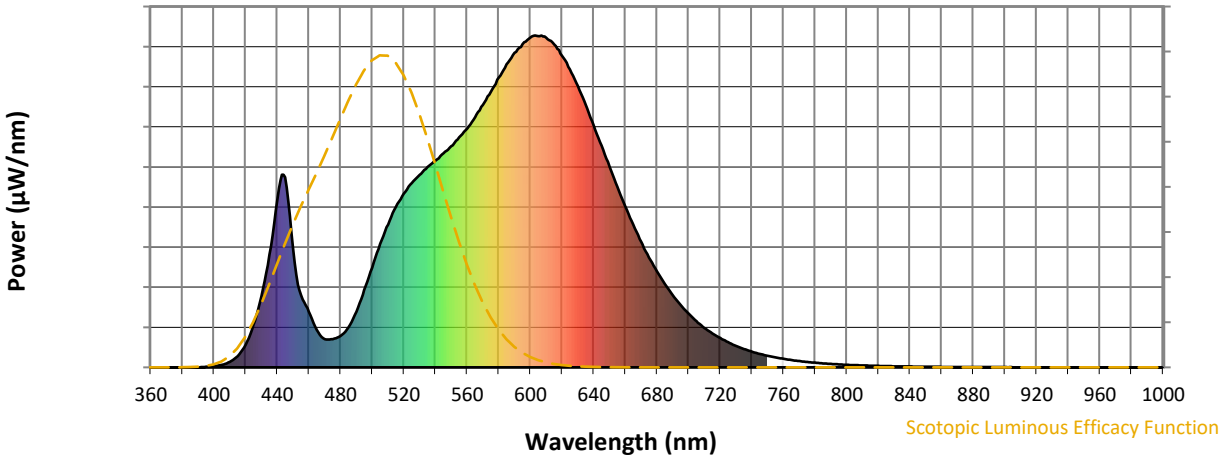
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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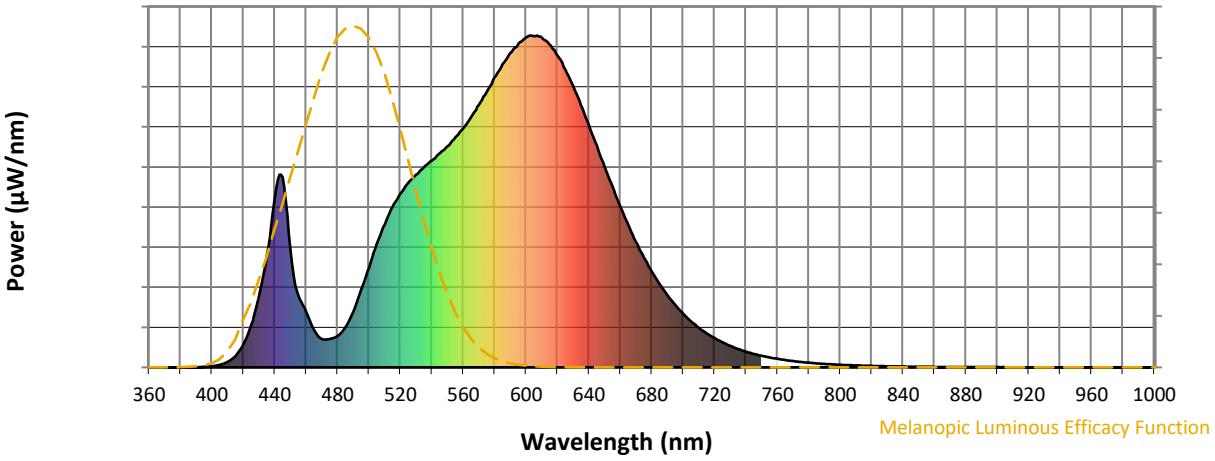
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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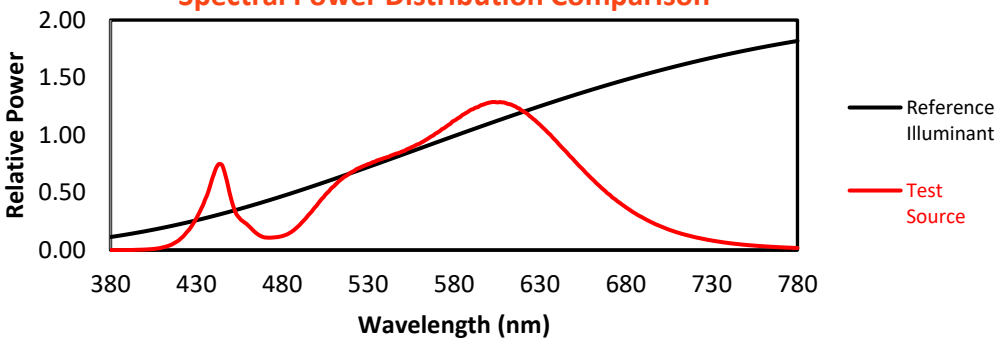
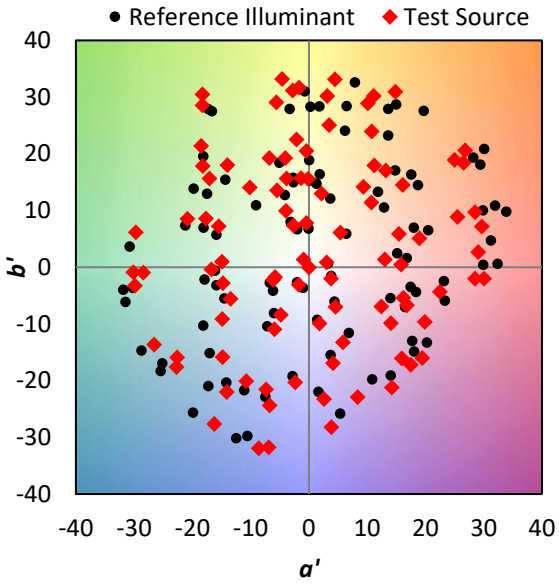
Summary

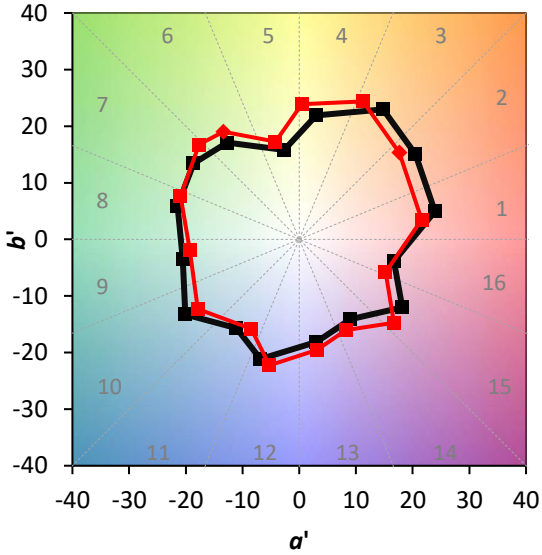
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

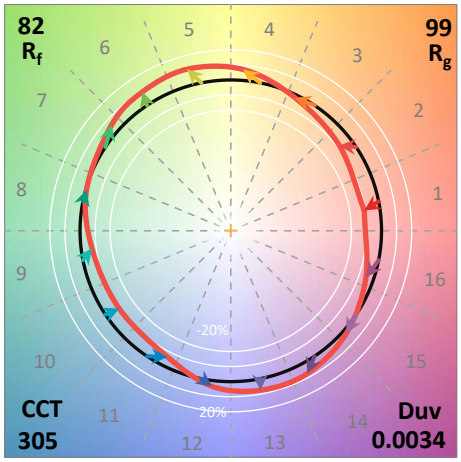
Spectral Power Distribution Comparison

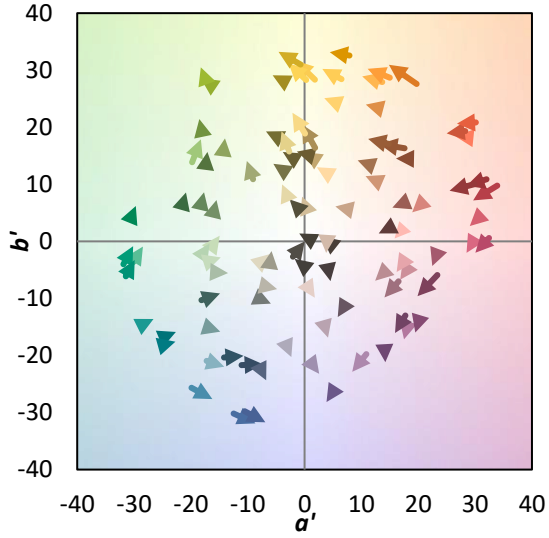


Color Vector Graphics









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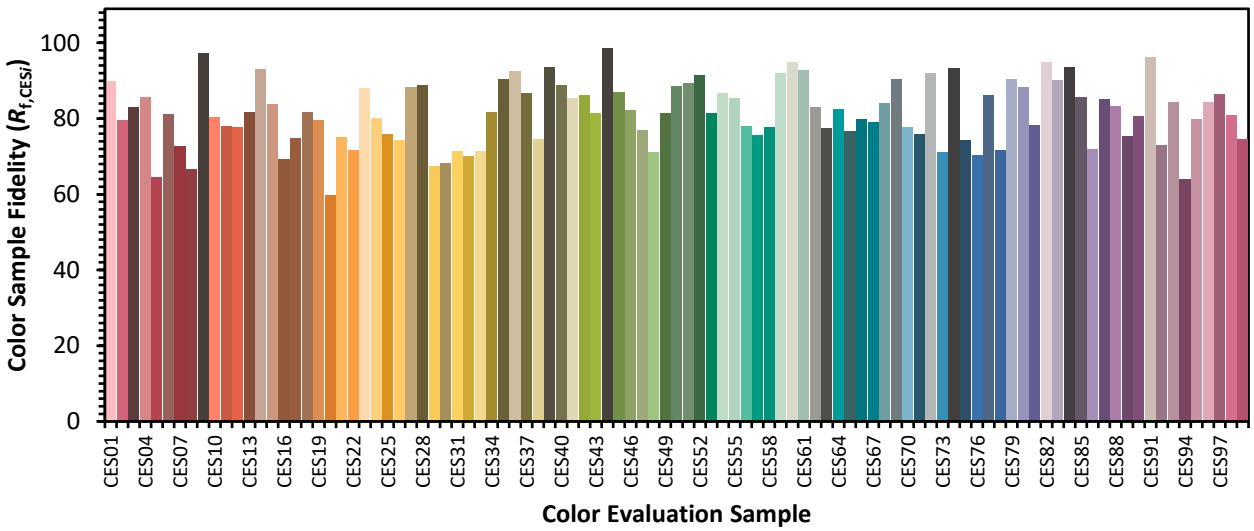
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	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 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	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	



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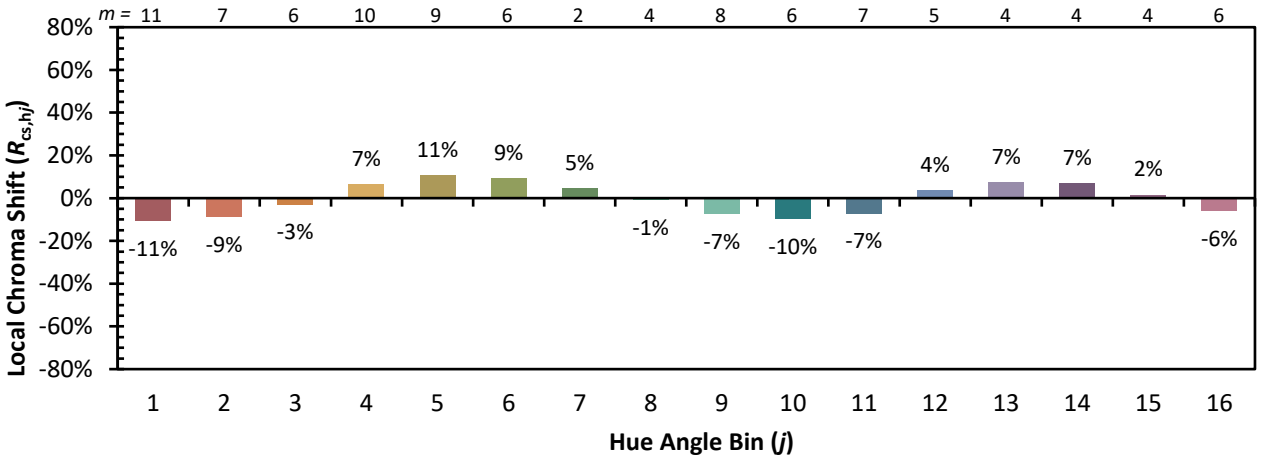
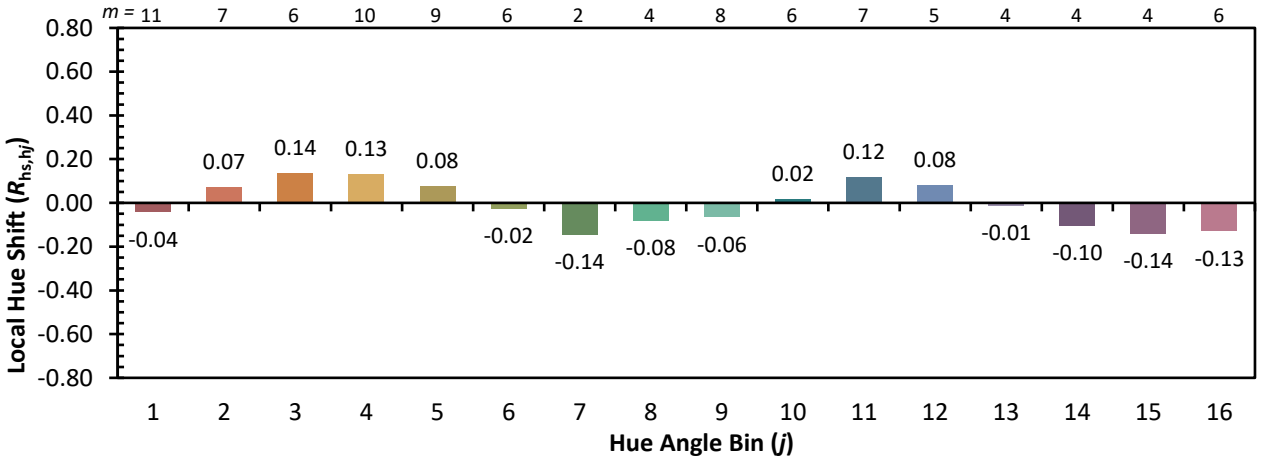
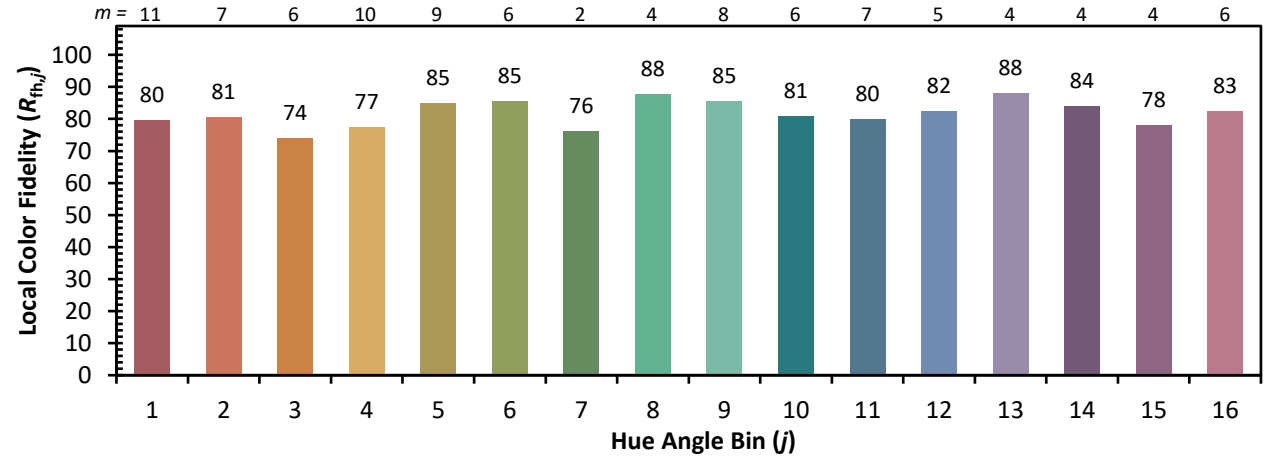
Color Rendition by Hue-Angle Bin







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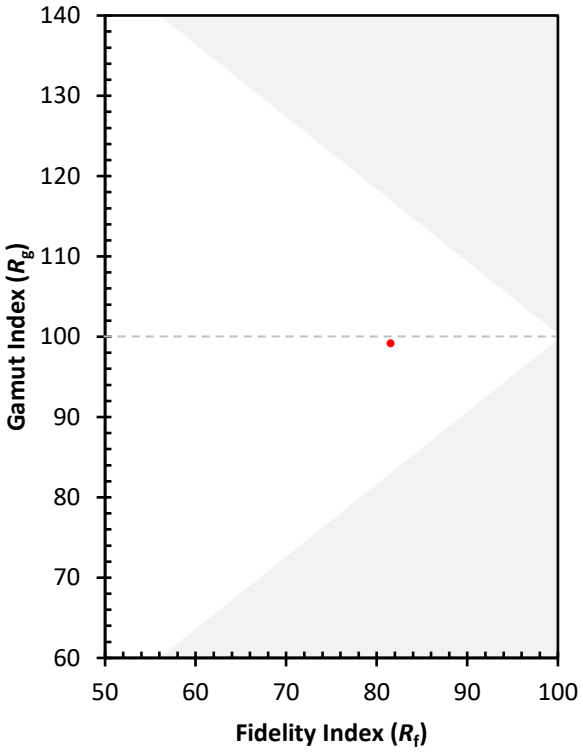
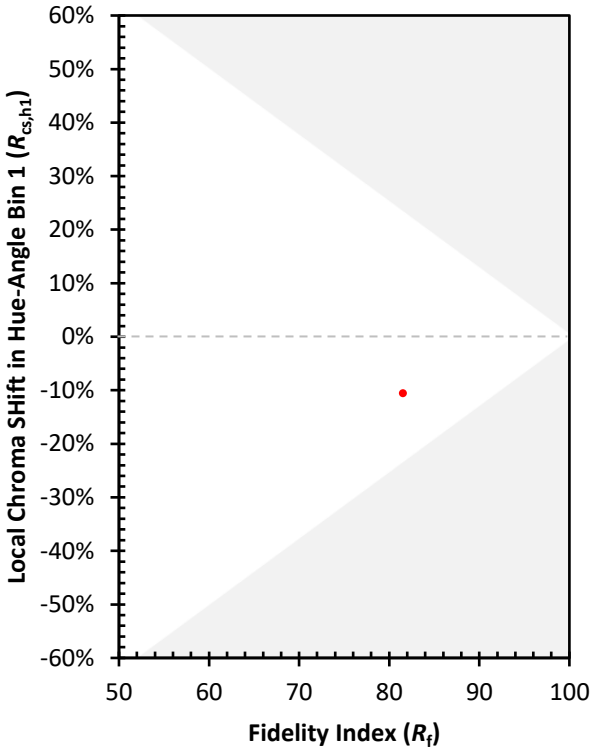
Measure Comparisons





(END OF REPORT)