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: P629597

Luminaire Tested: GWS-SA1B-830-U-T4FT-W

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:	P629597
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-T4FT-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2750.1 lumens
Efficiency:	N/A
Efficacy:	110.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	25
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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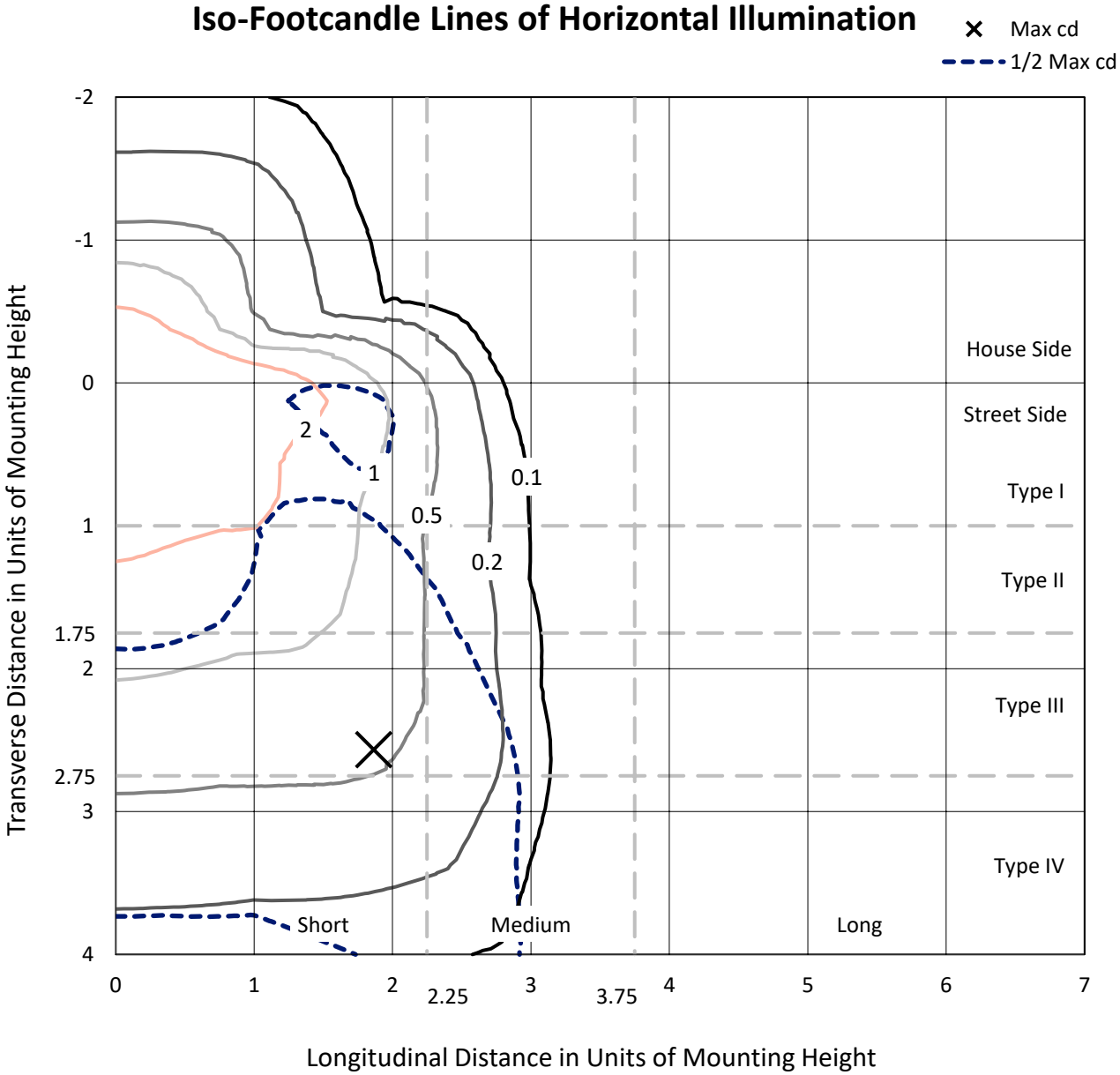
REPORT NUMBER: P629597
CATALOG NUMBER: GWS-SA1B-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Short - N/A

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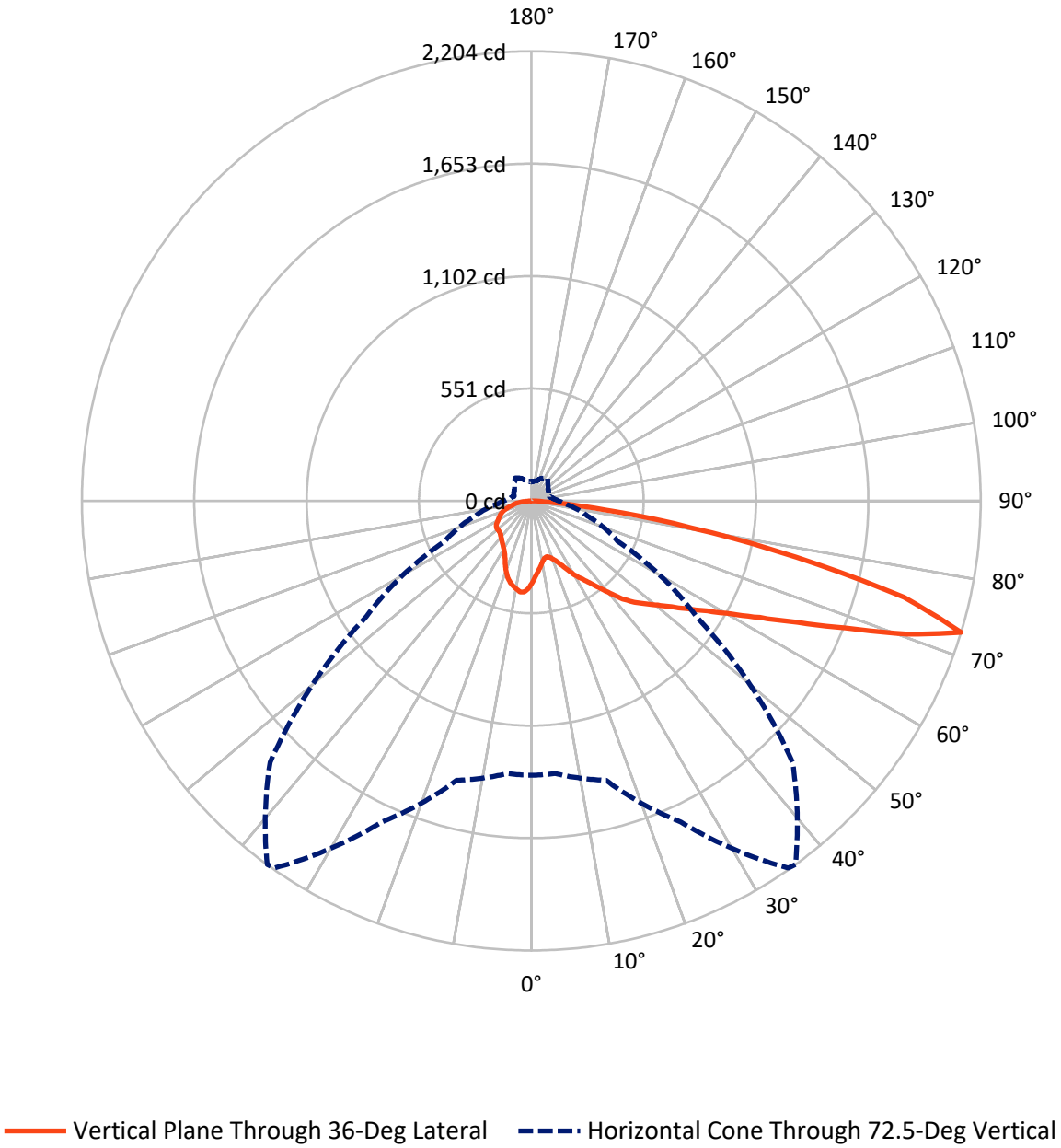
Luminous Intensity Polar Plot



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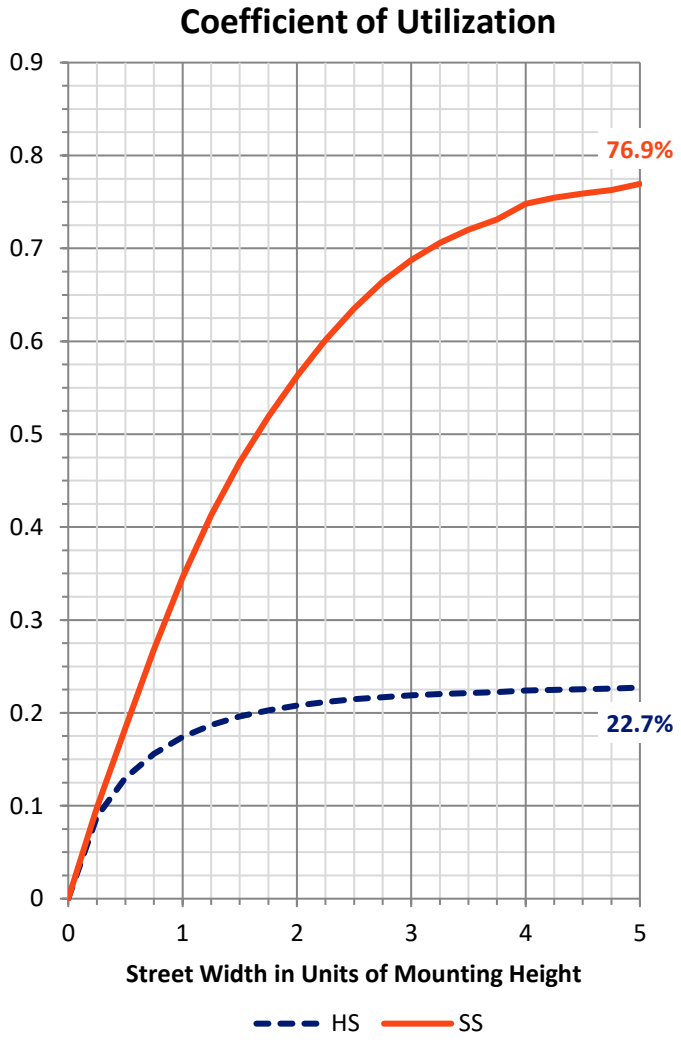
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.0	0.0	634.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	2116.1	0.0	2116.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	2750.1	0.0	2750.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	1.4
10°-20°	106.1	3.9
20°-30°	175.8	6.4
30°-40°	263.3	9.6
40°-50°	384.1	14.0
50°-60°	546.7	19.9
60°-70°	690.7	25.1
70°-80°	492.2	17.9
80°-90°	53.7	2.0
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°	2750.1	100.0
0°-180°	2750.1	100.0



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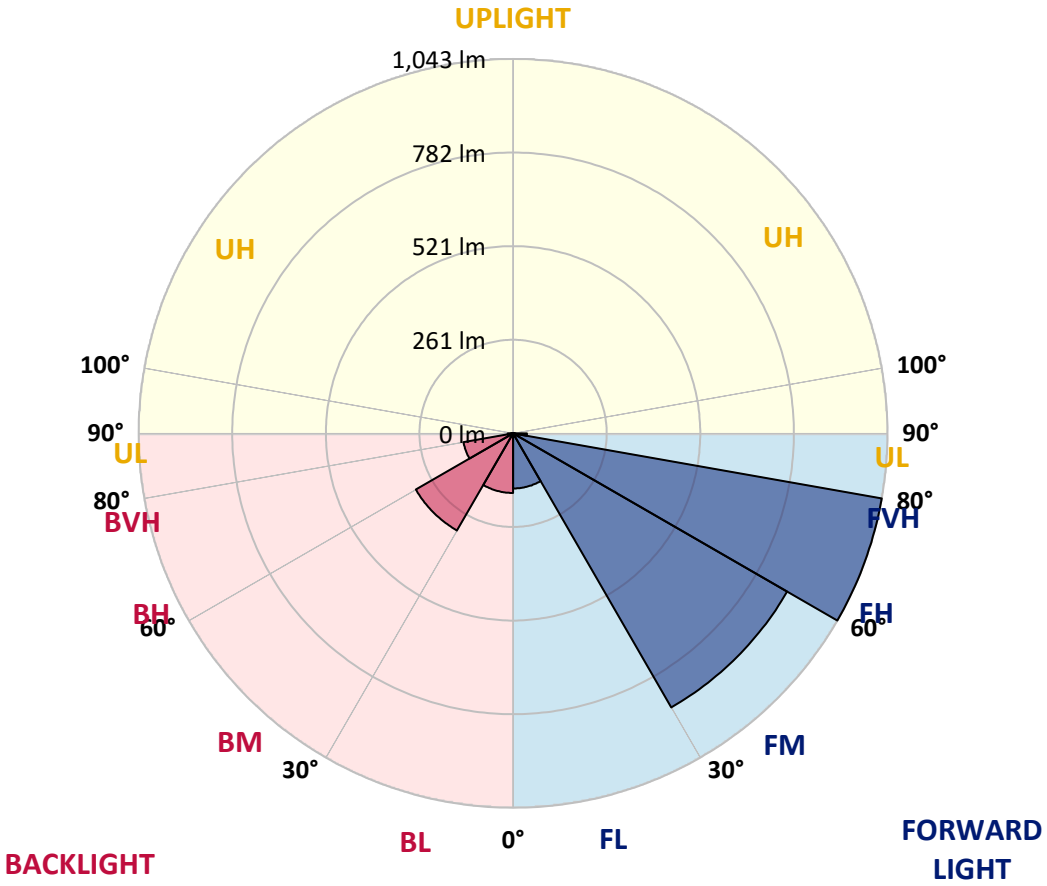
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	153.5	5.6			
FM	(30°-60°)	881.3	32.0			
FH	(60°-80°)	1042.7	37.9			G1/1800
FVH	(80°-90°)	38.6	1.4			G1/100
BL	(0°-30°)	166.0	6.0	B1/500		
BM	(30°-60°)	312.7	11.4	B1/1000		
BH	(60°-80°)	140.2	5.1	B1/500		G1/500
BVH	(80°-90°)	15.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5
2.5°	367.2	366.6	365.3	369.0	372.7	372.3	377.4	382.3	387.6	393.1	400.4
5°	337.8	337.4	336.4	341.9	347.4	347.2	355.5	363.5	374.3	386.2	400.9
7.5°	308.4	307.4	308.8	315.7	323.5	324.3	335.7	348.8	364.5	382.3	403.1
10°	282.5	282.3	282.9	290.6	302.3	303.1	317.8	336.0	356.8	380.4	408.2
12.5°	275.7	275.3	273.7	277.6	286.4	287.6	303.7	326.0	351.5	381.5	415.1
15°	286.8	285.7	280.0	278.2	282.5	283.5	297.2	320.0	348.4	383.3	423.9
17.5°	305.7	305.1	294.3	286.8	289.6	290.4	300.6	319.0	347.6	387.0	434.7
20°	333.5	330.8	313.9	302.5	302.5	303.7	309.8	323.5	348.6	391.5	447.0
22.5°	370.2	364.9	341.1	325.5	321.5	323.1	325.7	334.7	352.9	399.0	462.3
25°	411.5	406.6	378.2	356.4	350.6	351.3	349.0	350.6	362.3	409.4	481.3
27.5°	455.4	452.1	421.9	394.1	385.1	385.1	377.2	373.3	375.3	421.3	502.5
30°	494.5	490.0	464.5	434.1	422.3	422.3	407.2	398.8	393.9	435.8	530.9
32.5°	515.2	512.5	495.6	472.3	457.8	455.6	442.5	432.7	421.3	457.2	569.2
35°	542.1	541.5	531.3	513.1	494.7	491.5	482.5	474.7	454.9	483.9	620.3
37.5°	576.0	575.0	573.3	562.5	540.5	539.9	531.9	522.5	496.8	522.5	682.1
40°	613.9	612.1	610.1	609.9	596.6	594.3	593.7	583.1	547.2	569.0	746.6
42.5°	666.2	659.9	640.7	649.2	659.0	657.0	664.8	648.8	610.1	624.3	807.6
45°	730.5	715.0	677.0	679.5	704.2	708.2	735.2	731.3	679.3	688.2	871.9
47.5°	769.1	755.6	720.3	718.2	749.1	754.2	812.7	820.1	753.7	765.2	951.3
50°	800.7	791.3	762.3	765.2	797.8	802.9	889.7	905.4	824.0	844.0	1043.6
52.5°	838.9	825.4	802.9	816.4	856.4	862.5	975.2	992.1	887.2	930.5	1139.1
55°	860.3	854.8	855.2	875.8	926.0	934.4	1064.8	1061.9	945.2	1004.6	1210.9
57.5°	909.7	907.6	926.4	934.2	1007.2	1018.1	1154.4	1129.9	997.9	1061.9	1245.4
60°	996.8	991.7	1008.1	1019.9	1107.7	1123.0	1254.4	1196.4	1033.6	1104.6	1233.8
62.5°	1119.3	1113.0	1113.6	1132.4	1242.2	1258.3	1365.6	1252.0	1044.6	1111.1	1160.1
65°	1271.6	1262.4	1252.0	1277.5	1420.8	1434.2	1486.7	1292.4	1018.3	1048.3	1006.2
67.5°	1432.2	1424.6	1412.4	1465.9	1652.0	1660.2	1622.4	1288.9	934.8	880.1	705.8
70°	1441.6	1443.4	1501.4	1694.9	1953.9	1955.9	1750.8	1219.1	757.0	570.5	351.7
72.5°	1344.8	1341.8	1417.3	1736.7	2196.8	2203.7	1811.4	987.7	467.8	284.5	164.9
75°	1092.4	1097.7	1177.1	1519.5	1882.8	1889.0	1476.7	582.3	222.3	139.2	105.5
77.5°	470.3	499.8	656.4	1070.5	1348.5	1329.5	761.1	235.9	118.6	99.2	80.8
80°	135.7	147.4	233.9	509.0	808.0	793.8	301.3	88.4	82.7	74.5	58.0
82.5°	43.9	48.6	85.7	202.7	362.1	361.7	114.3	52.3	54.1	50.6	37.4
85°	12.2	14.1	26.3	61.4	112.1	109.8	33.1	24.7	28.8	29.2	18.6
87.5°	0.0	0.0	0.2	0.4	0.4	0.4	0.8	3.7	8.4	10.6	7.6
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: GWS-SA1B-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5
2.5°	404.9	404.3	412.7	419.2	425.3	429.4	430.7	431.5	433.1	433.9	433.1
5°	407.8	410.9	424.7	434.9	443.1	448.0	448.2	447.8	449.0	448.0	447.4
7.5°	413.9	419.8	437.4	448.2	453.5	453.7	448.8	443.1	440.2	437.8	437.0
10°	422.1	430.9	450.0	457.2	455.6	448.0	437.2	428.2	423.1	419.4	418.6
12.5°	433.3	443.1	461.3	461.1	450.9	437.4	424.7	413.9	406.6	402.3	400.9
15°	443.9	456.4	469.4	459.8	443.7	427.4	411.1	396.6	386.8	380.0	378.8
17.5°	457.0	470.3	475.4	456.0	434.7	413.7	391.9	372.9	359.6	351.7	351.1
20°	472.1	483.9	478.2	449.2	423.1	395.5	366.0	344.7	330.4	322.7	323.3
22.5°	489.6	498.2	479.0	440.0	407.0	369.8	336.8	316.4	306.8	302.7	302.9
25°	508.4	513.9	477.6	427.6	382.3	338.4	306.8	297.4	296.6	295.5	295.9
27.5°	530.7	529.4	473.3	410.0	349.0	301.9	285.7	288.2	291.5	291.0	291.5
30°	560.5	548.8	467.8	385.8	309.4	271.3	273.3	280.2	284.5	284.9	286.2
32.5°	594.5	570.3	459.0	352.7	271.7	254.1	261.7	270.0	275.1	276.2	277.8
35°	635.2	594.8	443.5	311.5	244.5	243.9	250.8	256.6	262.1	262.5	262.5
37.5°	681.9	619.2	418.8	265.9	227.8	235.1	241.7	242.9	244.3	243.1	243.7
40°	724.8	642.9	383.7	224.5	214.1	227.4	232.9	228.8	224.3	221.2	221.9
42.5°	760.7	659.0	337.2	195.5	200.2	220.4	224.7	216.3	207.6	201.9	202.7
45°	801.1	673.9	282.5	175.9	188.4	215.5	218.4	207.6	196.3	187.8	186.5
47.5°	856.8	704.4	233.9	162.3	180.0	212.9	217.6	202.9	188.2	175.3	173.9
50°	925.6	747.4	193.3	153.3	176.1	211.4	217.4	197.8	180.2	165.1	164.1
52.5°	1000.7	789.5	163.3	146.3	172.3	207.2	216.3	192.1	171.9	155.5	154.3
55°	1050.7	806.0	143.1	139.8	165.9	200.4	212.3	186.5	159.2	144.3	142.5
57.5°	1065.4	784.8	129.0	133.9	157.8	191.0	204.5	174.9	151.4	139.6	138.2
60°	1040.1	731.3	120.2	129.0	148.8	179.0	191.0	168.2	145.3	134.7	133.7
62.5°	968.7	648.8	113.5	123.9	139.6	166.3	182.5	160.0	138.6	130.2	128.8
65°	825.0	532.1	108.0	118.6	130.8	154.3	173.1	151.9	131.2	124.9	123.3
67.5°	577.0	373.7	102.1	112.3	122.1	142.7	163.3	144.3	123.7	119.0	117.4
70°	282.1	198.2	94.9	104.9	112.7	130.8	153.5	135.1	113.7	111.0	108.8
72.5°	*134.3*	*110.8*	*86.5*	*94.9*	*99.8*	*115.1*	*137.2*	*121.8*	*101.8*	*96.1*	*92.3*
75°	90.0	78.8	75.5	83.1	84.3	96.5	117.6	105.1	89.8	83.3	80.0
77.5°	68.2	60.2	63.5	70.2	67.8	79.4	96.7	93.7	81.0	75.1	73.5
80°	48.0	43.9	50.4	54.5	52.7	67.6	87.2	80.2	66.7	60.2	59.0
82.5°	30.2	29.4	37.1	37.8	38.4	53.5	71.6	63.1	51.8	42.7	39.6
85°	15.1	16.7	22.2	22.2	22.0	27.6	40.8	35.5	28.0	22.2	21.6
87.5°	5.1	7.1	9.6	7.8	5.9	4.7	5.3	6.5	6.9	6.7	6.7
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

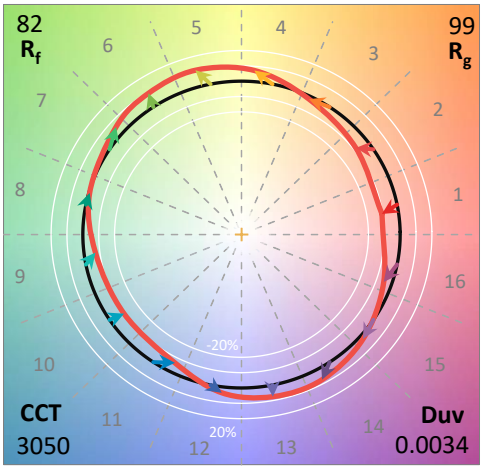
Test Information

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

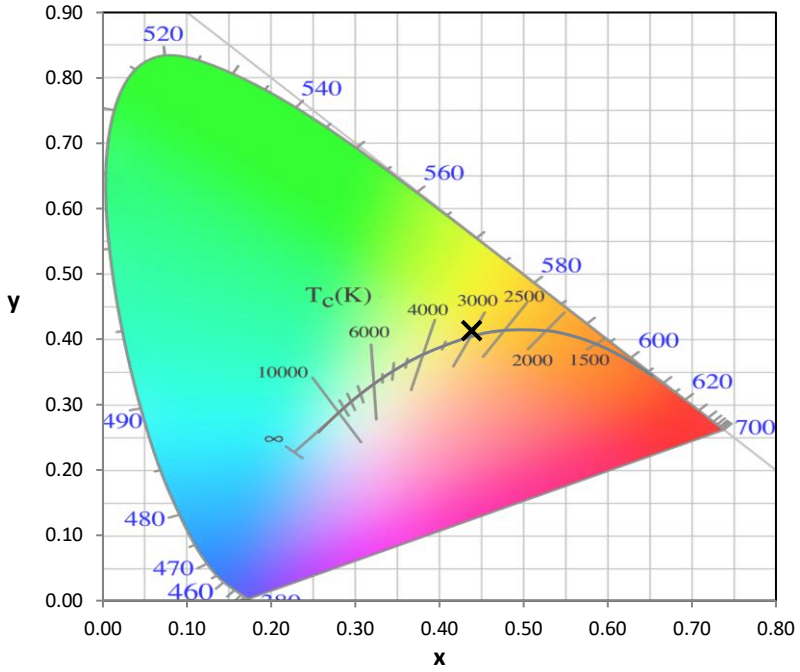
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

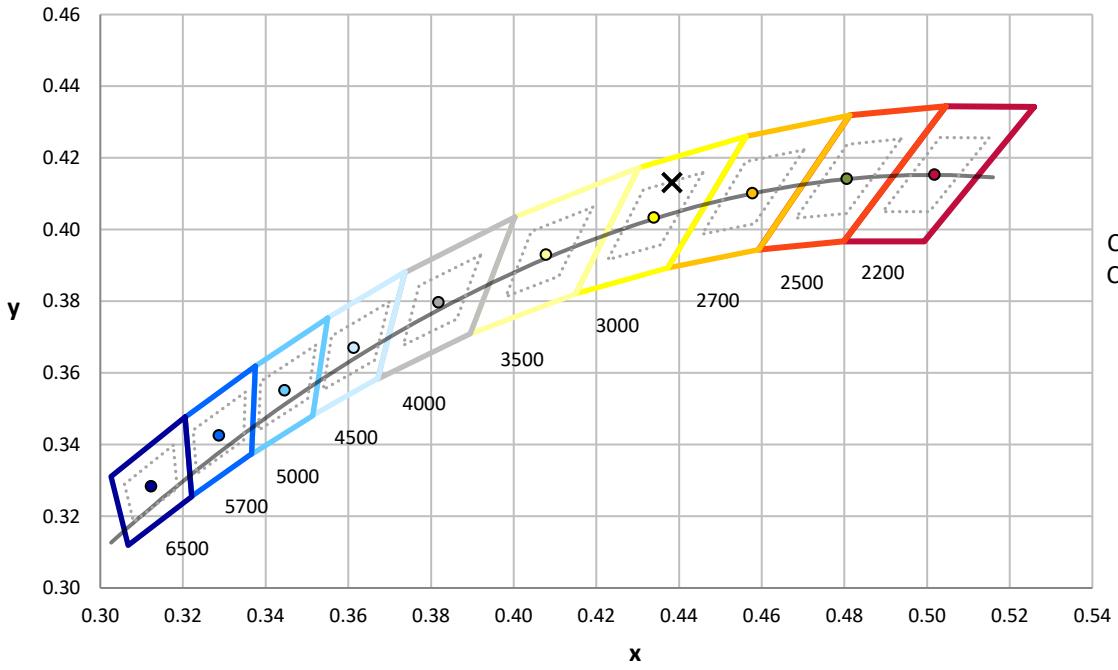
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

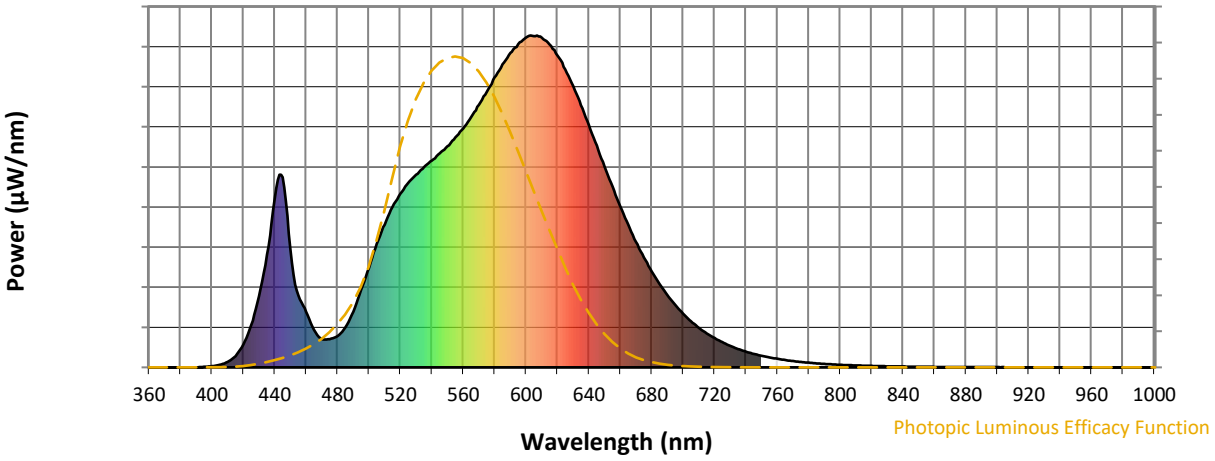


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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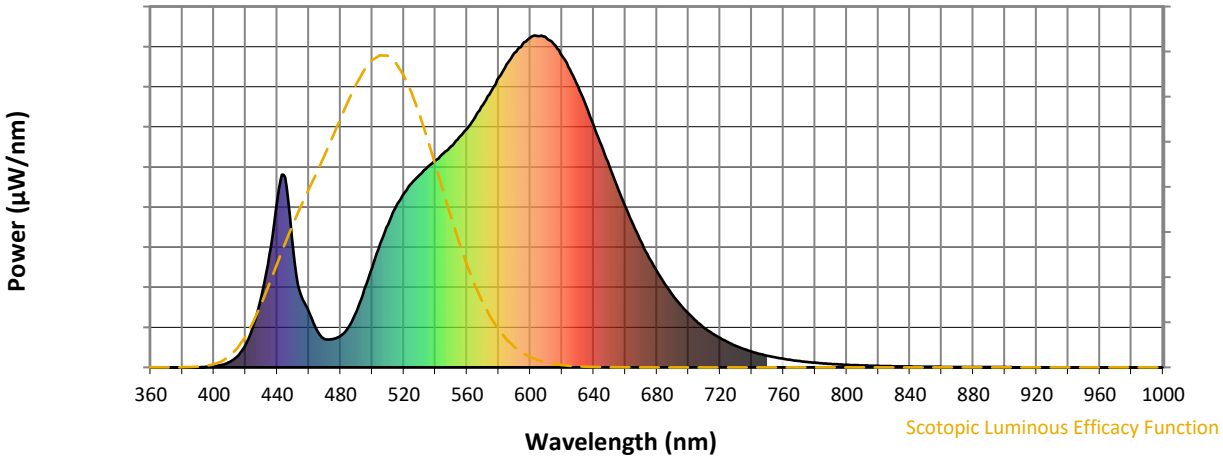
Scotopic Flux vs. Wavelength



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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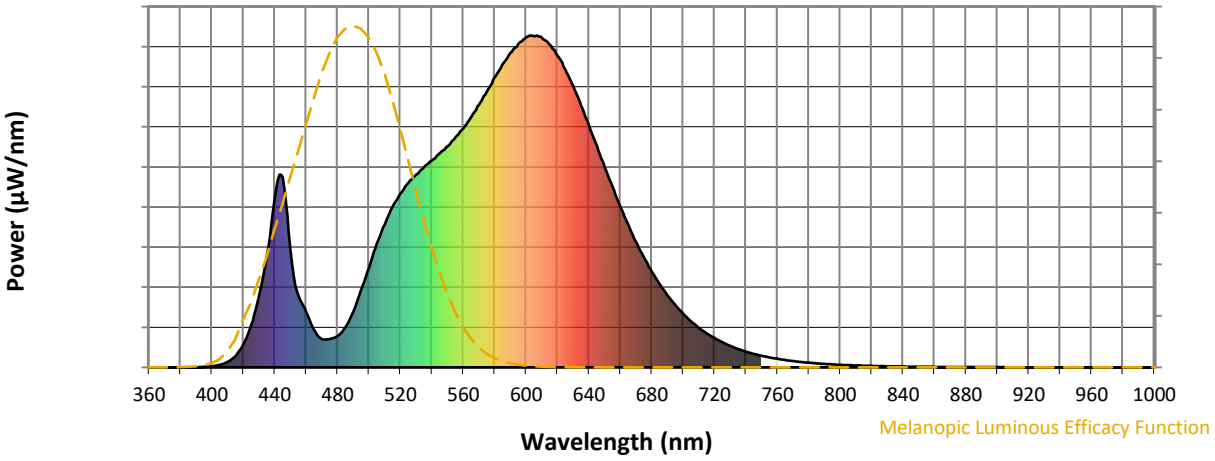
Melanopic Flux vs. Wavelength



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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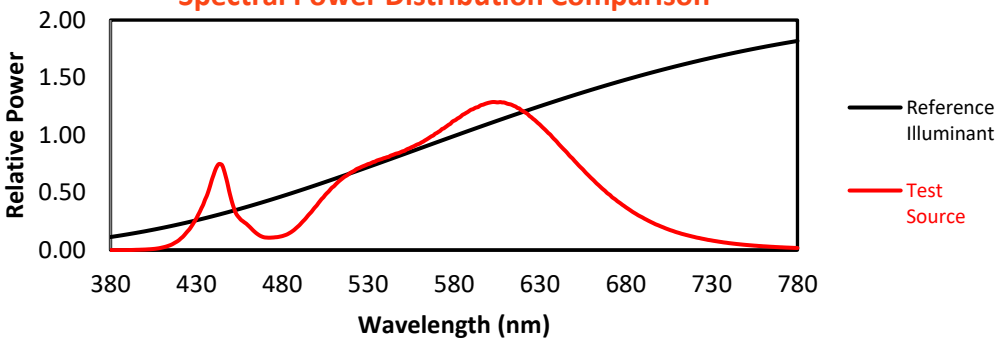
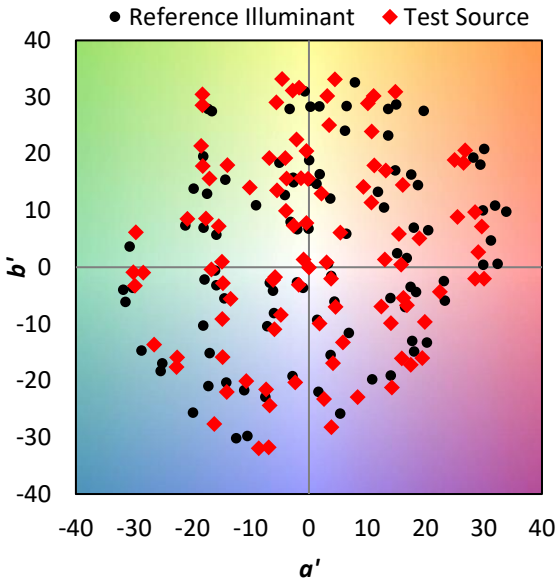
Summary

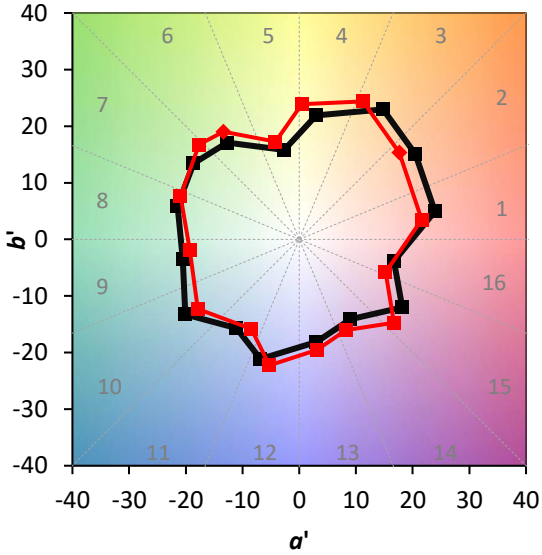
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

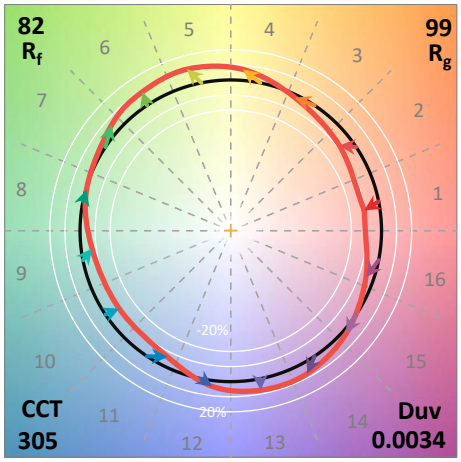
Spectral Power Distribution Comparison

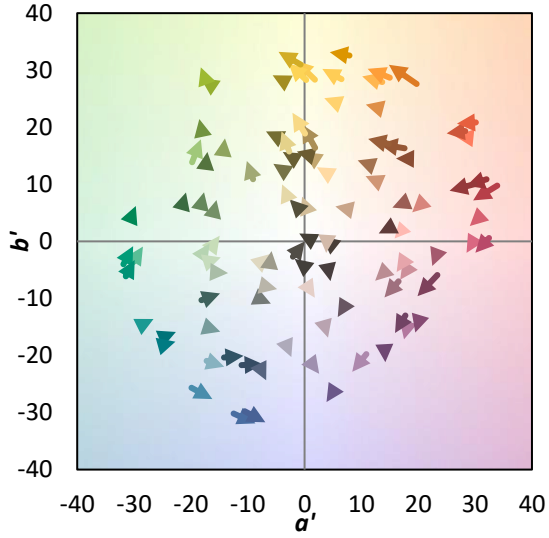


Color Vector Graphics









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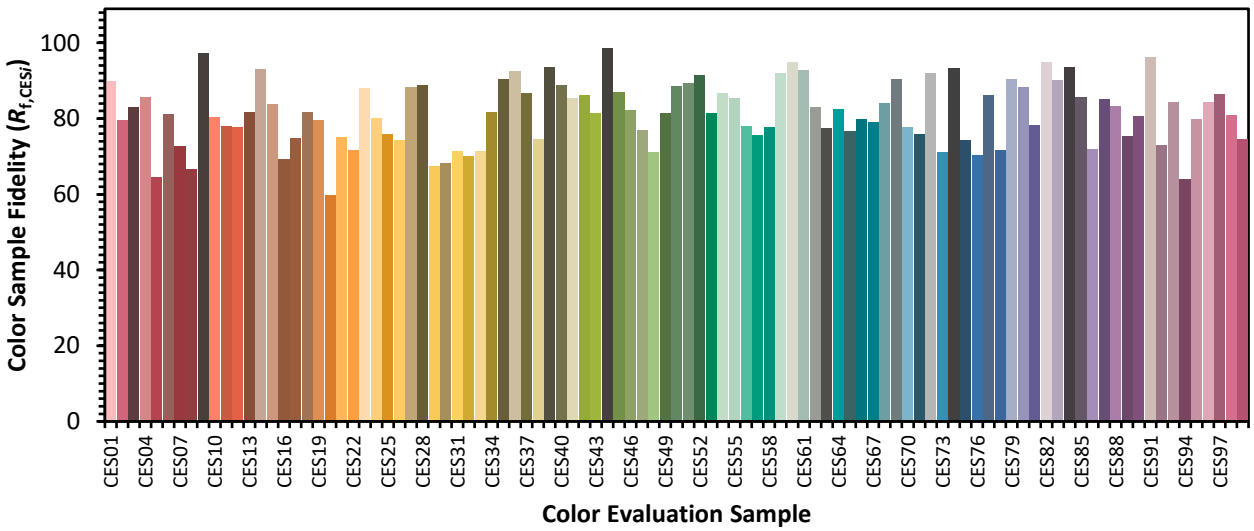
Individual Sample Fidelity Index ($R_{f,i}$)

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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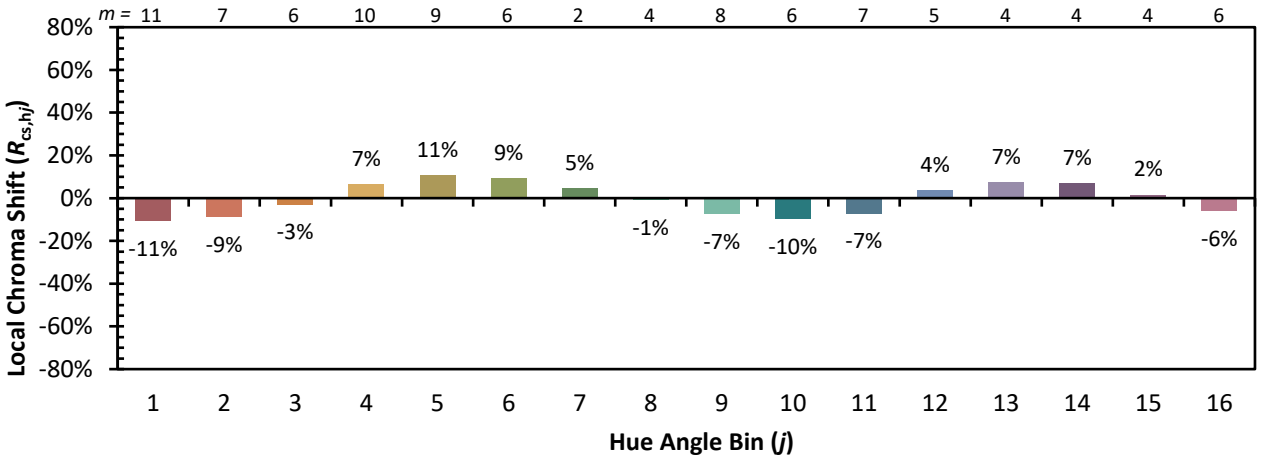
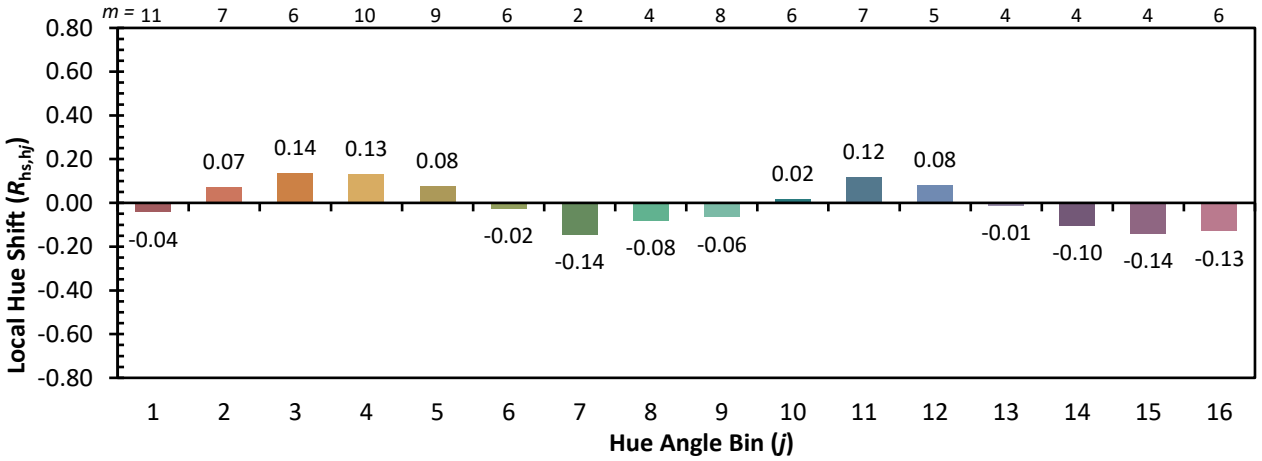
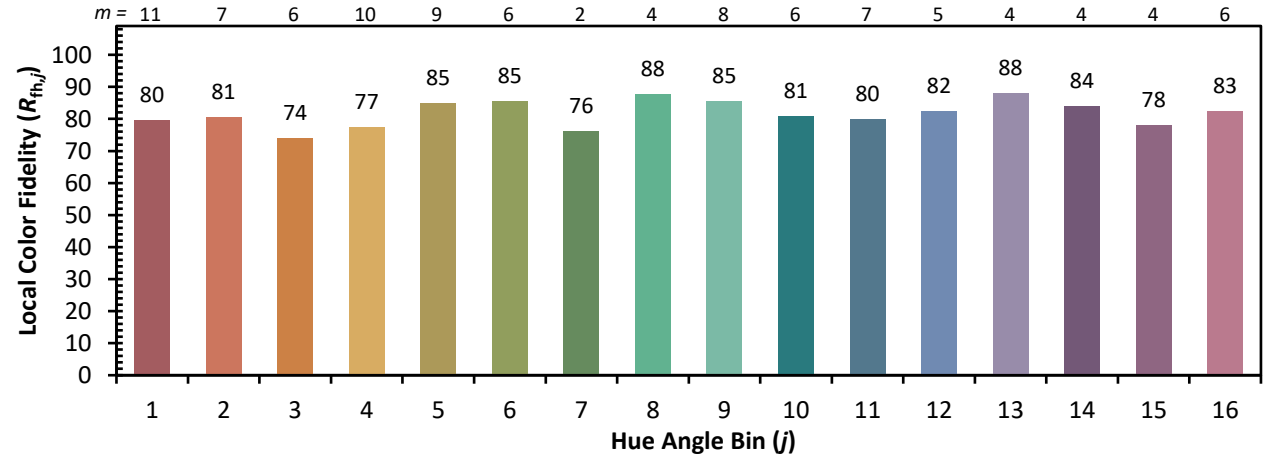
Color Rendition by Hue-Angle Bin







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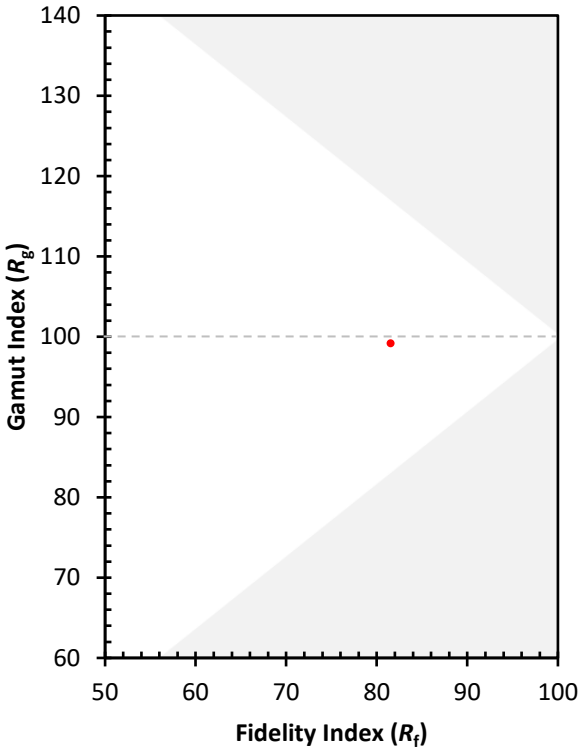
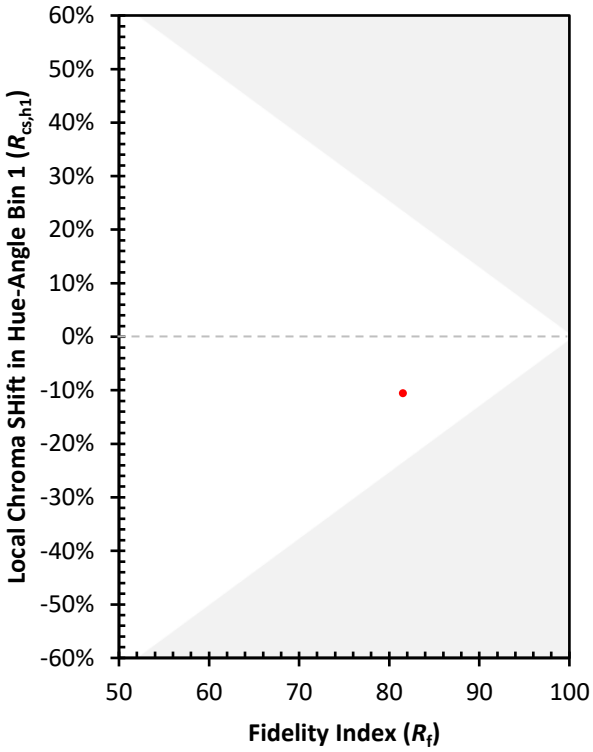
Measure Comparisons





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