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: P634531

Luminaire Tested: GWS-SA3B-830-U-T2-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:	P634531
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8197.9 lumens
Efficiency:	N/A
Efficacy:	120.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	68.3
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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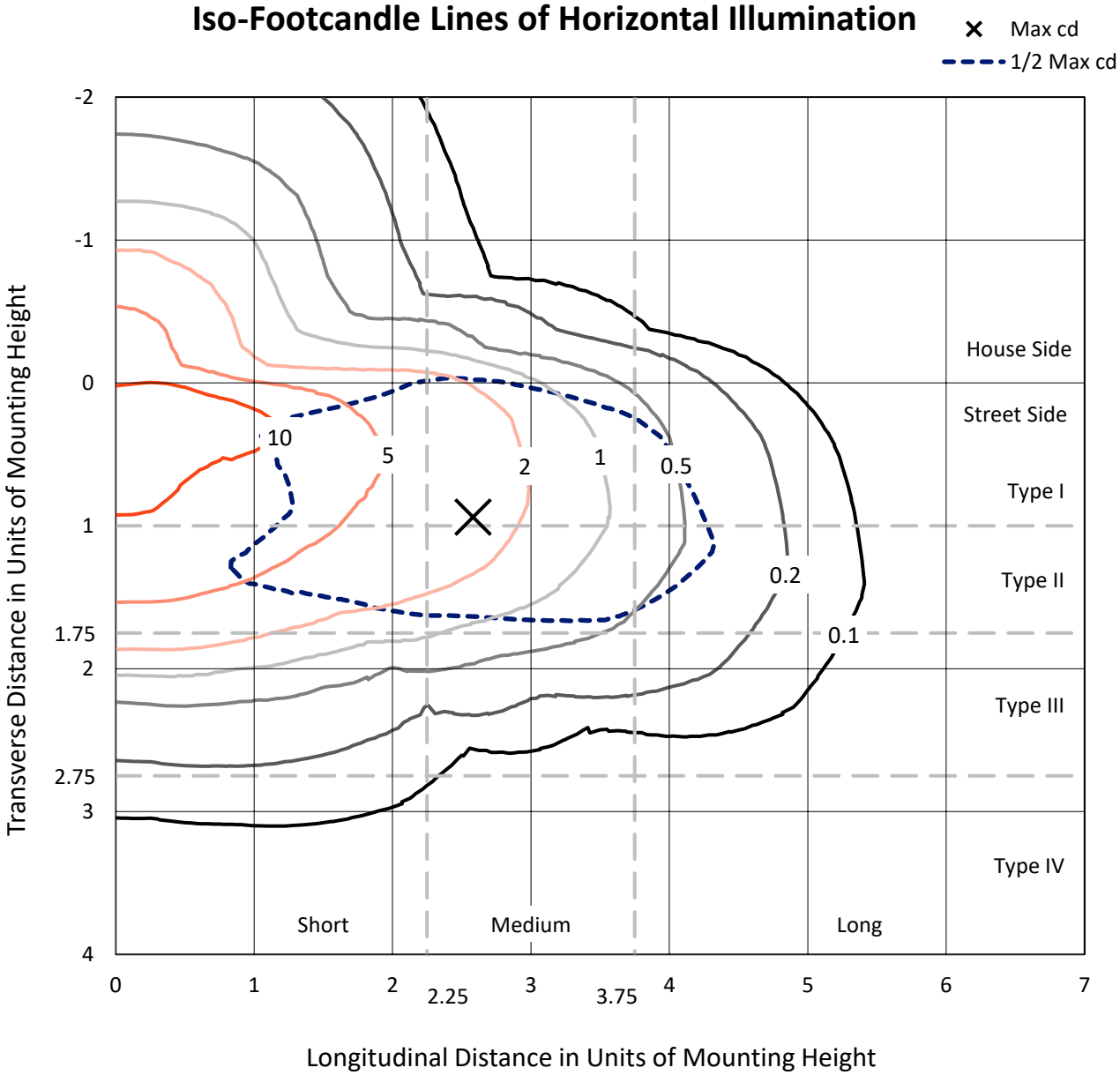
Scaled Data Report

REPORT NUMBER: P634531
CATALOG NUMBER: GWS-SA3B-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Medium - N/A

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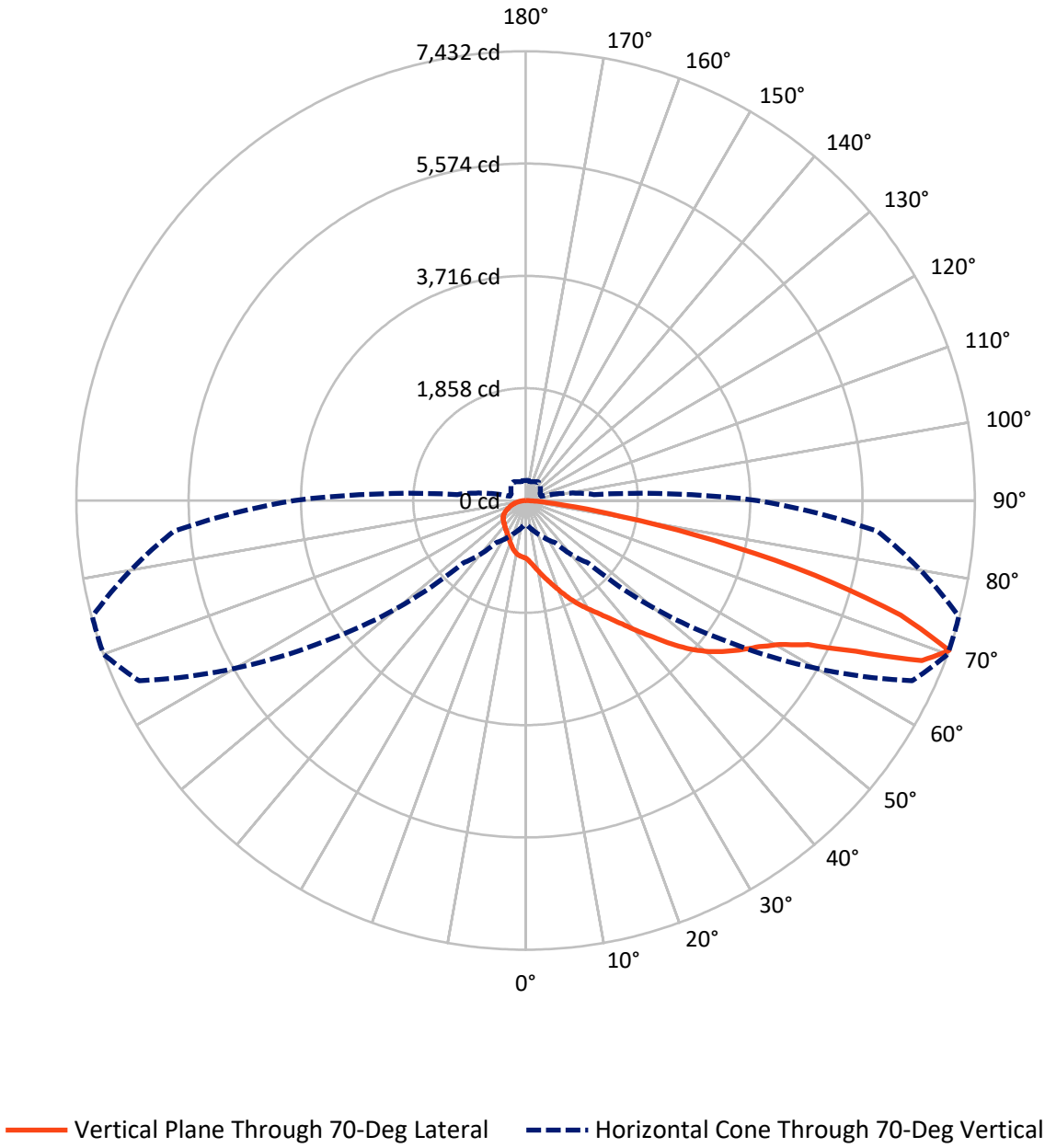
Luminous Intensity Polar Plot



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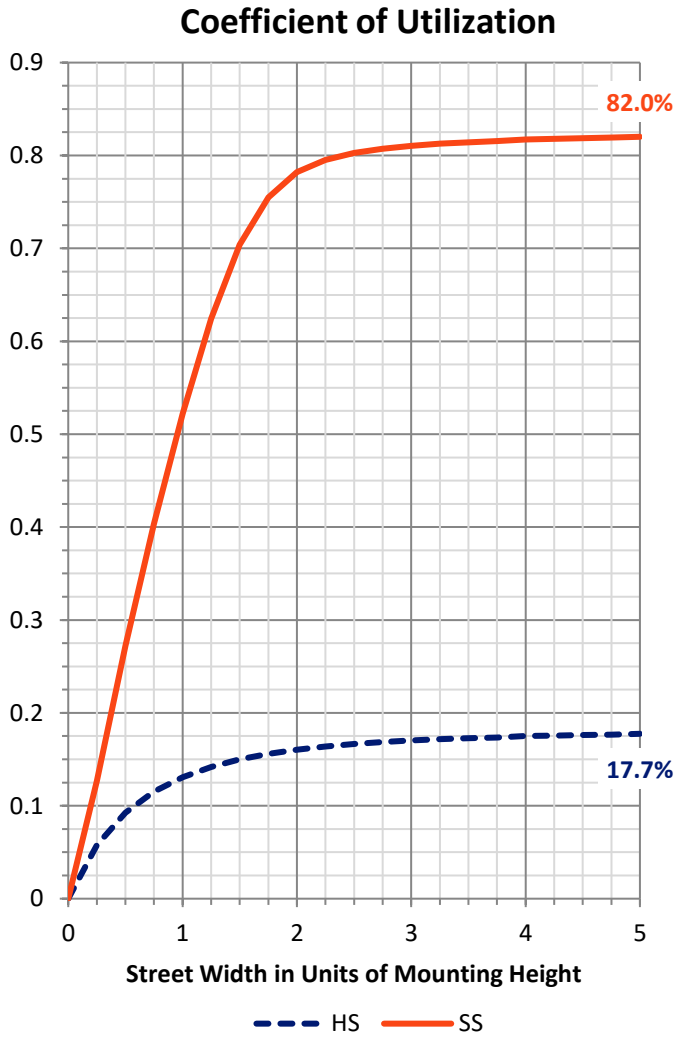
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.1	0.0	1469.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	6728.8	0.0	6728.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	8197.9	0.0	8197.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	1.2
10°-20°	316.1	3.9
20°-30°	560.0	6.8
30°-40°	842.8	10.3
40°-50°	1275.0	15.6
50°-60°	1826.5	22.3
60°-70°	2019.0	24.6
70°-80°	1139.4	13.9
80°-90°	121.9	1.5
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°	8197.9	100.0
0°-180°	8197.9	100.0



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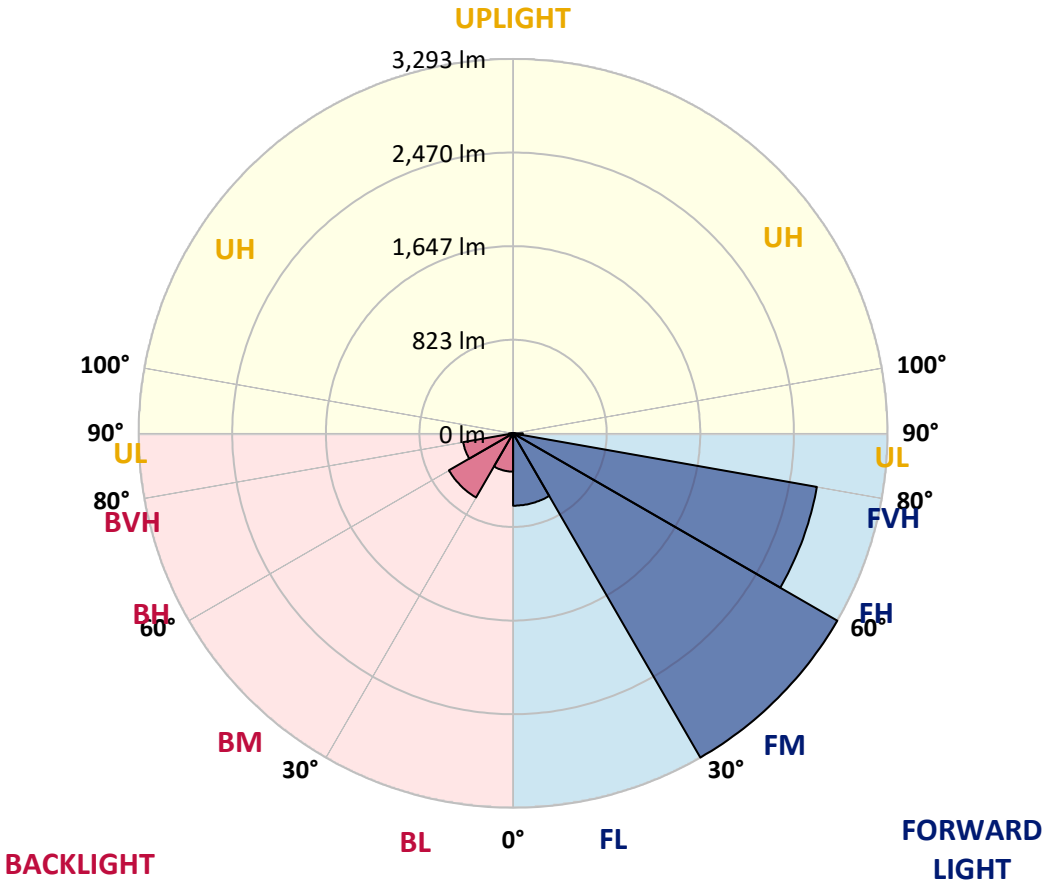
CATALOG NUMBER: GWS-SA3B-830-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	636.4	7.8			
FM	(30°-60°)	3293.1	40.2			
FH	(60°-80°)	2713.2	33.1			G2/5000
FVH	(80°-90°)	86.2	1.1			G1/100
BL	(0°-30°)	336.8	4.1	B1/500		
BM	(30°-60°)	651.2	7.9	B1/1000		
BH	(60°-80°)	445.3	5.4	B1/500		G1/500
BVH	(80°-90°)	35.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Medium



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Scaled Data Report

REPORT NUMBER: P634531
CATALOG NUMBER: GWS-SA3B-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	956.0	956.0	956.0	956.0	956.0	956.0	956.0	956.0	*956.0*	956.0	956.0
2.5°	1059.1	1057.3	1058.5	1057.3	1050.8	1034.8	1021.8	1005.2	*994.0*	987.4	972.0
5°	1183.5	1181.7	1177.6	1171.7	1159.8	1137.9	1105.3	1069.2	*1047.3*	1030.7	998.1
7.5°	1272.9	1272.9	1272.4	1265.2	1257.0	1233.9	1195.4	1148.0	*1116.0*	1087.5	1034.2
10°	1318.6	1321.5	1325.7	1335.7	1334.0	1321.5	1285.4	1234.4	*1194.2*	1161.0	1081.6
12.5°	1343.4	1345.2	1352.3	1373.1	1394.4	1397.3	1376.0	1322.7	*1278.9*	1234.4	1134.3
15°	1375.4	1376.0	1385.5	1410.4	1441.8	1473.2	1467.8	1414.5	*1369.5*	1320.3	1193.0
17.5°	1400.3	1404.5	1421.6	1450.7	1489.7	1533.0	1559.1	1525.9	*1470.2*	1413.9	1257.0
20°	1409.2	1412.2	1434.7	1479.1	1532.4	1593.4	1651.5	1642.6	*1586.3*	1520.0	1329.2
22.5°	1441.2	1441.2	1457.8	1495.1	1557.9	1646.7	1740.9	1764.0	*1714.2*	1636.6	1406.8
25°	1511.7	1509.3	1517.0	1532.4	1579.8	1689.4	1829.2	1898.5	*1842.8*	1755.7	1484.4
27.5°	1608.2	1607.0	1606.4	1608.8	1624.8	1726.7	1903.8	2024.0	*1968.4*	1870.0	1553.7
30°	1713.1	1709.5	1717.2	1710.1	1706.5	1771.1	1967.2	2136.6	*2093.3*	1983.2	1611.2
32.5°	1855.8	1849.3	1847.5	1824.4	1810.2	1840.4	2018.1	2264.5	*2230.2*	2105.2	1675.7
35°	2044.2	2038.3	2008.0	1971.3	1929.3	1943.5	2081.5	2389.5	*2391.9*	2258.0	1760.4
37.5°	2234.3	2235.5	2211.8	2125.3	2082.1	2073.8	2178.1	2541.8	*2592.7*	2440.5	1870.0
40°	2392.5	2399.6	2399.6	2308.4	2243.8	2236.1	2313.7	2722.4	*2823.7*	2664.4	2008.6
42.5°	2512.7	2519.2	2540.0	2474.2	2406.1	2432.8	2478.4	2903.7	*3085.5*	2941.0	2184.0
45°	2644.8	2650.2	2661.4	2623.5	2583.8	2654.9	2665.0	3120.5	*3385.3*	3251.4	2387.7
47.5°	2820.2	2815.4	2816.6	2788.8	2758.0	2872.9	2870.5	3302.9	*3674.9*	3591.4	2608.7
50°	3038.1	3047.0	3038.7	2983.6	2947.5	3052.4	3066.0	3504.9	*3929.6*	3927.8	2831.4
52.5°	3247.8	3251.4	3295.2	3297.6	3223.5	3201.6	3237.2	3708.7	*4144.6*	4235.9	3045.2
55°	3258.5	3272.1	3403.6	3498.4	3618.0	3442.1	3410.1	3903.0	*4352.6*	4537.4	3267.4
57.5°	3031.6	3053.5	3276.9	3481.2	3814.1	3855.0	3706.3	4154.1	*4560.5*	4834.1	3524.5
60°	2547.1	2592.7	2896.0	3208.7	3725.9	4151.7	4312.3	4495.3	*4833.5*	5137.4	3836.6
62.5°	1626.6	1644.3	2069.7	2593.3	3328.4	4122.7	4972.1	5096.5	*5249.4*	5532.5	4317.6
65°	814.5	871.3	1120.7	1547.8	2400.2	3632.9	5305.6	6197.7	*6010.5*	6209.0	5097.1
67.5°	552.7	571.0	697.2	930.0	1407.4	2573.7	5098.9	7125.3	*7070.2*	7102.8	5928.2
70°	*407.5*	*419.4*	*518.9*	*658.7*	*851.2*	*1461.3*	*4059.3*	*7055.4*	*7431.6*	*7419.7*	*5841.1*
72.5°	297.4	303.3	378.5	502.9	630.8	755.8	2479.0	5699.5	*6487.4*	6829.1	5108.4
75°	216.2	223.3	263.0	376.1	490.5	471.5	1223.8	4116.8	*4947.3*	5604.8	4161.8
77.5°	161.1	170.0	188.4	235.8	343.6	337.6	529.0	2673.3	*3199.8*	3660.7	2528.1
80°	116.1	117.9	128.5	151.0	218.0	197.8	251.7	1393.8	*1598.1*	1751.0	991.0
82.5°	70.5	72.3	85.9	93.0	135.1	124.4	130.9	451.4	*646.8*	686.5	370.2
85°	20.7	21.9	39.1	42.6	56.3	53.3	52.7	183.6	*219.2*	280.2	145.7
87.5°	0.0	0.0	0.0	0.0	0.6	3.6	6.5	32.6	*49.2*	68.1	35.5
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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Scaled Data Report

REPORT NUMBER: P634531
CATALOG NUMBER: GWS-SA3B-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	956.0	956.0	956.0	956.0	956.0	956.0	956.0	956.0	956.0	956.0	956.0
2.5°	966.1	952.5	945.4	932.9	924.1	915.2	906.3	898.0	894.4	889.1	890.3
5°	983.3	962.0	940.6	916.4	895.6	878.4	863.0	849.4	843.5	838.2	840.5
7.5°	1009.4	977.4	936.5	892.1	859.5	835.8	819.8	810.3	807.4	803.2	803.2
10°	1042.5	994.5	922.9	859.5	820.4	801.4	794.3	793.7	796.7	797.3	796.1
12.5°	1079.3	1011.1	902.7	821.0	787.8	781.9	787.2	797.3	807.4	812.7	811.5
15°	1117.2	1021.8	868.4	784.3	764.1	771.8	789.0	809.1	828.7	838.8	838.2
17.5°	1152.7	1024.2	824.0	748.7	743.4	762.9	792.6	824.0	850.6	864.8	865.4
20°	1192.4	1020.0	778.3	716.7	722.7	754.6	793.7	831.7	863.0	877.3	880.8
22.5°	1228.5	1005.8	733.9	686.5	704.9	744.6	784.3	819.8	847.6	861.3	866.0
25°	1261.1	978.6	685.3	661.1	691.3	730.4	760.6	785.4	805.0	813.3	819.8
27.5°	1278.9	937.7	648.6	640.9	678.2	710.2	726.8	734.5	741.0	738.7	743.4
30°	1282.4	886.7	616.6	624.9	658.7	682.4	685.9	678.2	667.0	648.6	652.8
32.5°	1278.9	828.1	590.0	607.7	636.8	651.0	646.2	626.1	598.9	570.4	572.2
35°	1280.1	768.9	568.1	588.8	611.3	619.0	607.2	579.3	550.3	524.2	523.0
37.5°	1293.1	719.1	549.7	570.4	586.4	587.6	574.6	545.5	530.7	511.2	508.8
40°	1329.2	682.4	533.1	552.1	562.1	561.5	546.7	526.0	536.1	529.6	527.8
42.5°	1388.5	659.9	519.5	532.5	539.6	540.8	529.0	515.9	537.8	529.6	526.6
45°	1483.8	658.7	510.0	513.0	524.2	532.5	524.2	509.4	517.7	477.4	469.7
47.5°	1597.0	678.8	502.9	495.8	515.3	530.1	517.1	493.4	476.2	439.5	434.2
50°	1733.2	719.7	496.4	477.4	502.3	521.3	508.2	475.7	449.6	430.0	427.1
52.5°	1894.9	773.6	488.1	456.7	482.8	516.5	508.2	473.9	439.5	421.7	418.8
55°	2064.3	835.8	478.6	431.8	460.8	517.7	512.4	461.4	431.8	422.3	420.0
57.5°	2274.6	910.4	461.4	402.8	441.3	507.0	495.8	454.3	426.5	418.8	416.4
60°	2547.7	1021.2	428.9	373.2	418.8	488.1	481.0	442.5	412.3	405.8	404.0
62.5°	2980.1	1209.0	389.2	344.7	392.1	448.4	459.1	420.0	394.5	393.9	393.3
65°	3685.0	1434.7	342.4	319.3	364.3	415.8	430.0	396.9	376.1	382.7	382.1
67.5°	4179.0	1454.2	303.9	292.6	331.7	380.3	401.0	373.2	350.7	363.1	362.5
70°	*3827.7*	*1134.3*	*270.7*	*264.8*	*296.8*	*341.8*	*369.6*	*343.6*	*321.1*	*332.9*	*330.5*
72.5°	3228.3	869.6	239.3	235.8	261.2	301.5	329.3	313.9	290.2	290.2	284.9
75°	2594.5	717.3	206.1	204.4	221.5	260.6	292.0	266.0	244.0	242.9	239.3
77.5°	1488.0	470.3	173.0	171.8	177.1	218.0	226.9	221.5	205.0	197.3	194.9
80°	592.9	244.6	136.2	128.5	133.9	159.9	178.9	170.0	155.8	146.3	141.0
82.5°	229.8	122.6	96.0	84.1	91.8	115.5	129.7	126.8	117.3	96.0	90.0
85°	93.6	59.8	57.5	48.6	53.3	62.2	74.6	64.6	53.3	37.9	36.1
87.5°	24.9	21.9	21.3	13.0	10.1	3.0	0.6	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

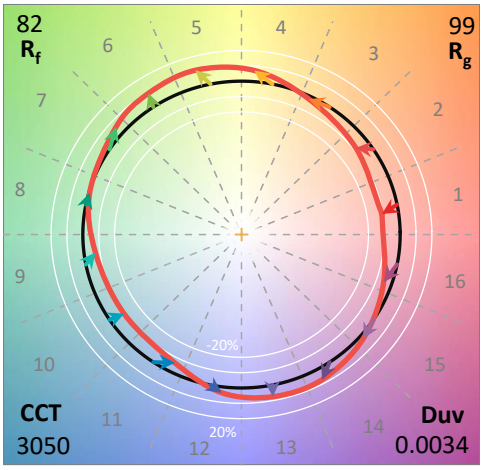
Test Information

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

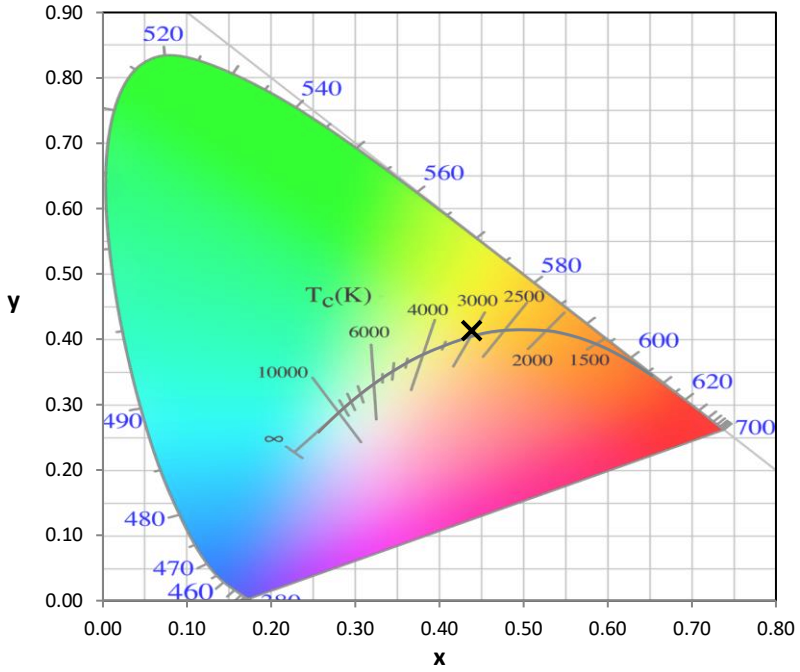
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

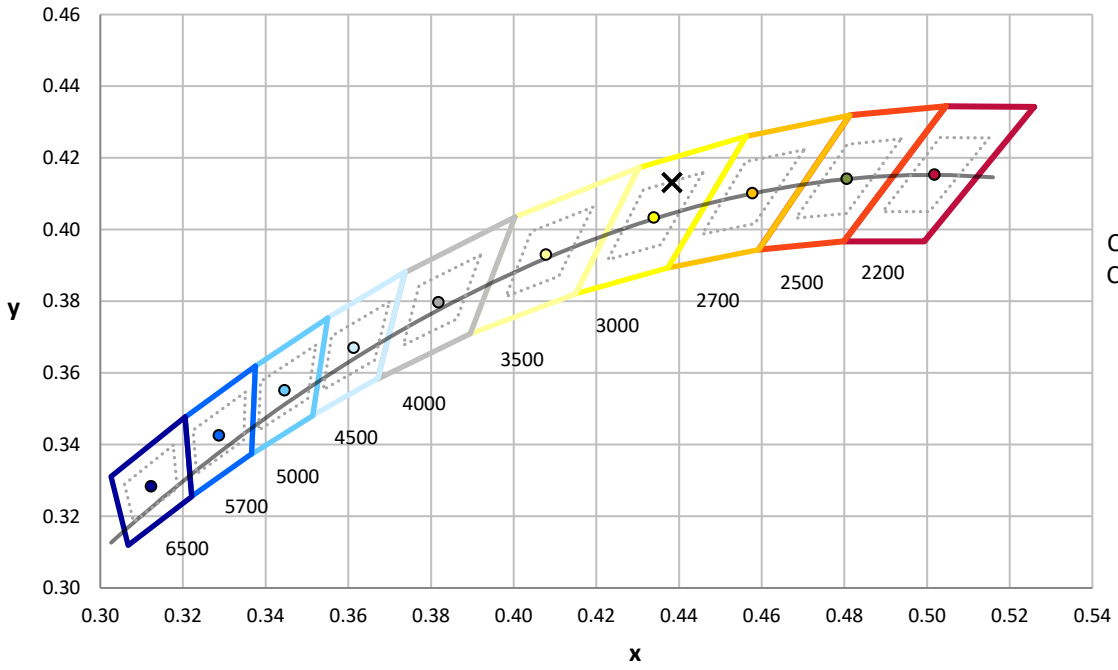
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

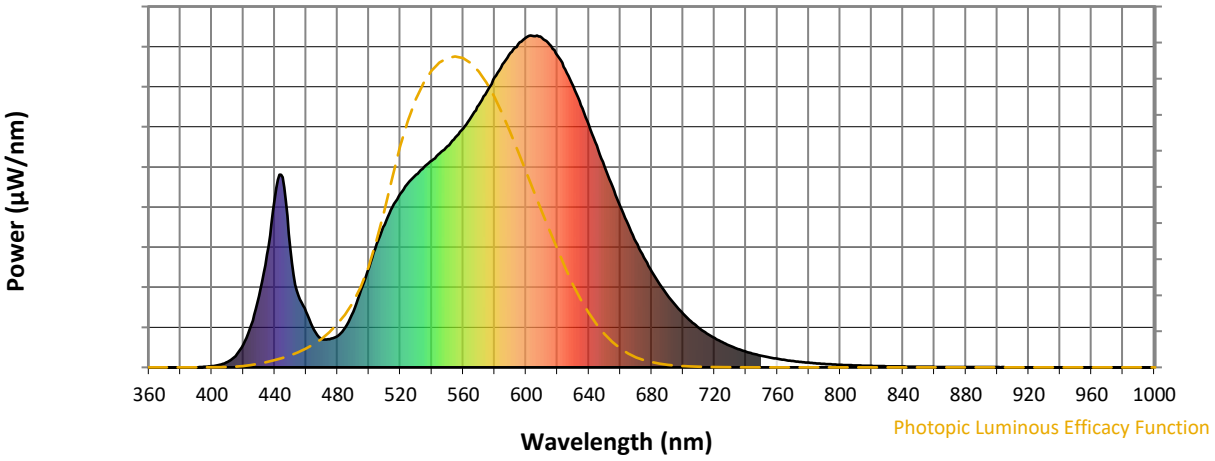


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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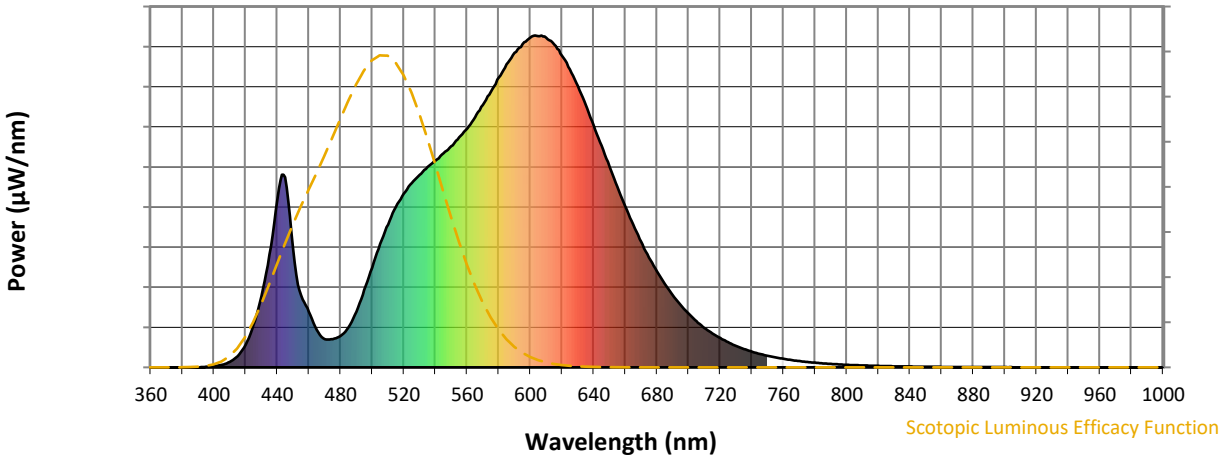
Scotopic Flux vs. Wavelength



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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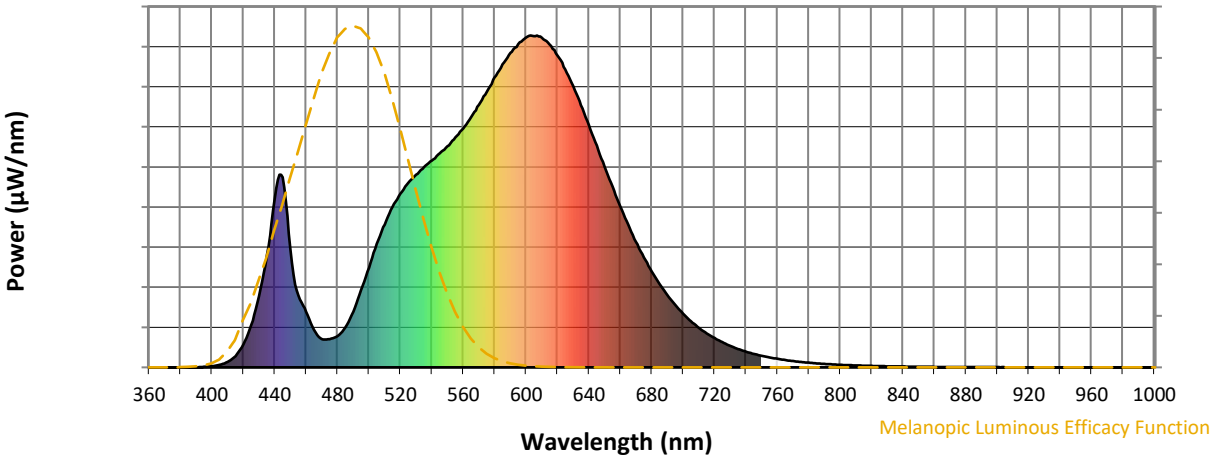
Melanopic Flux vs. Wavelength



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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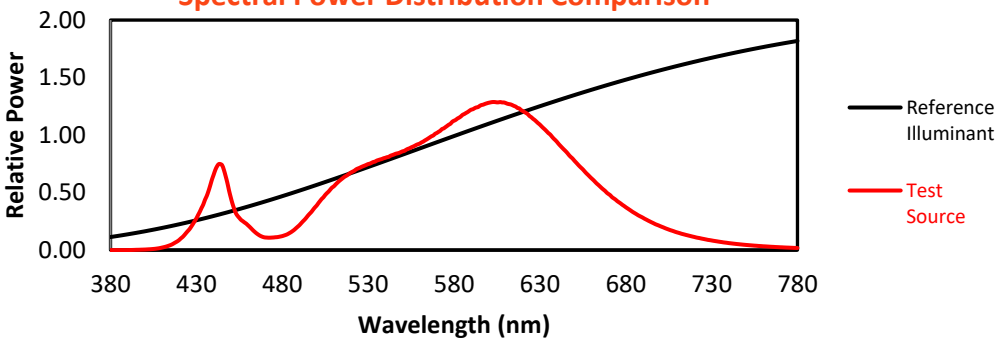
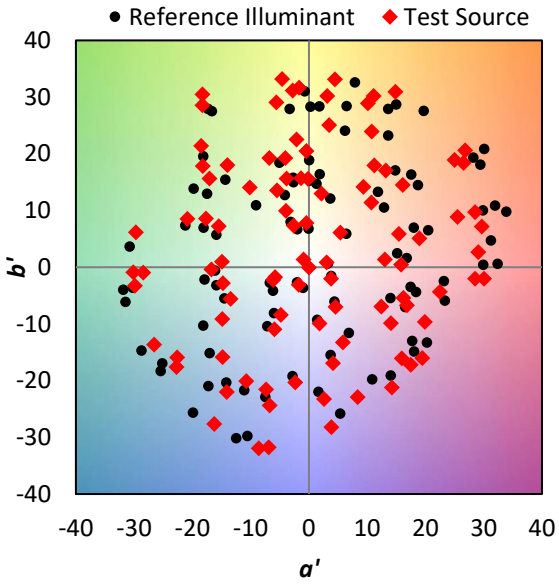
Summary

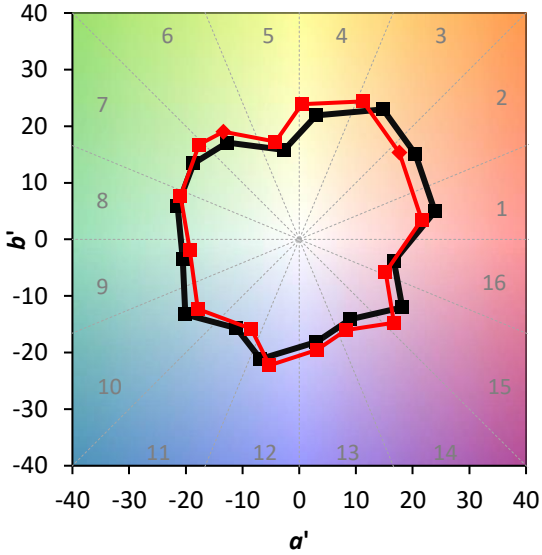
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

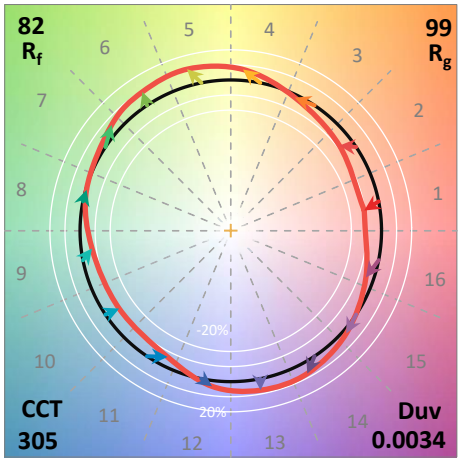
Spectral Power Distribution Comparison

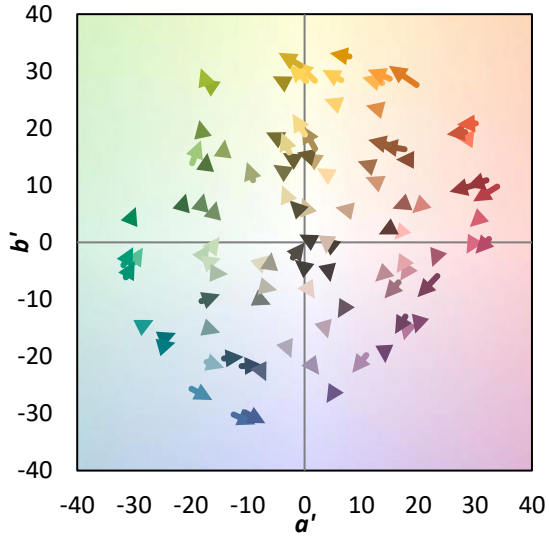


Color Vector Graphics









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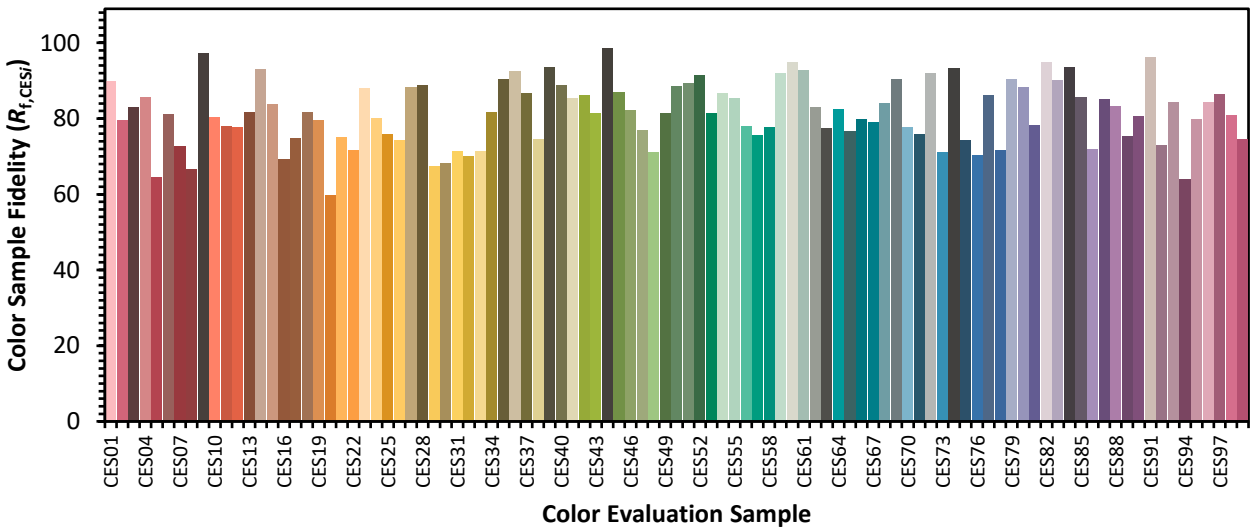
Individual Sample Fidelity Index ($R_{f,i}$)

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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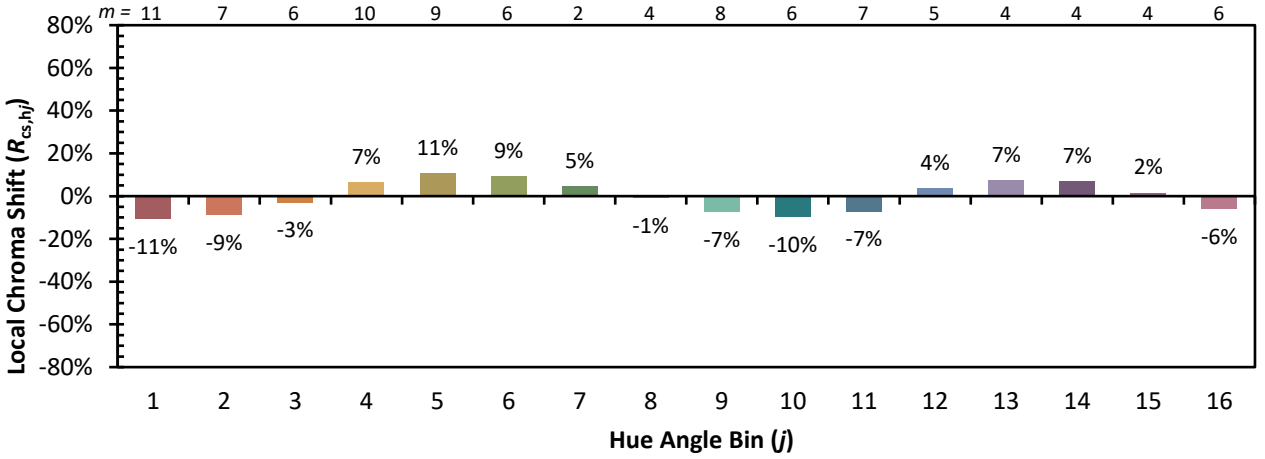
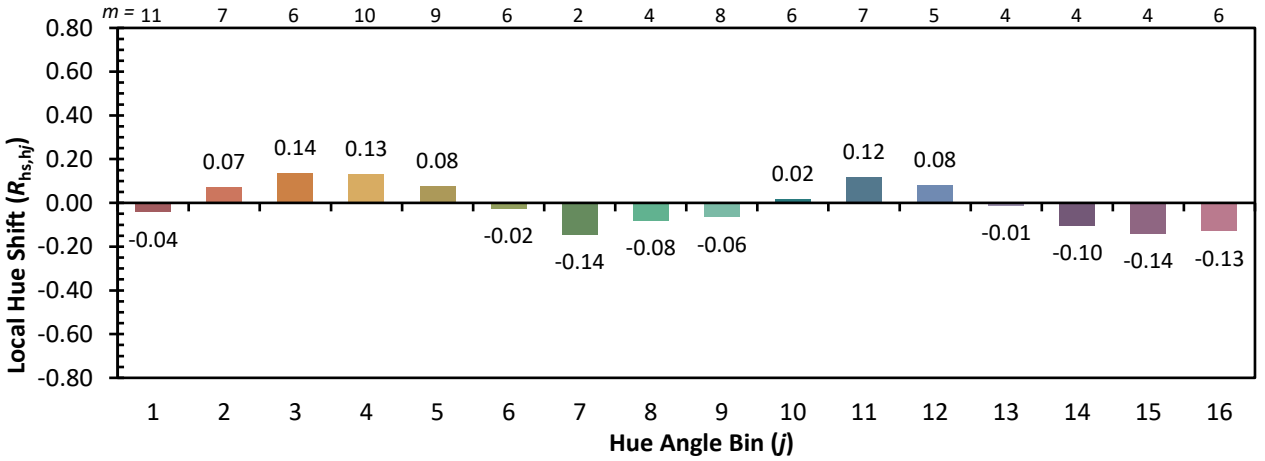
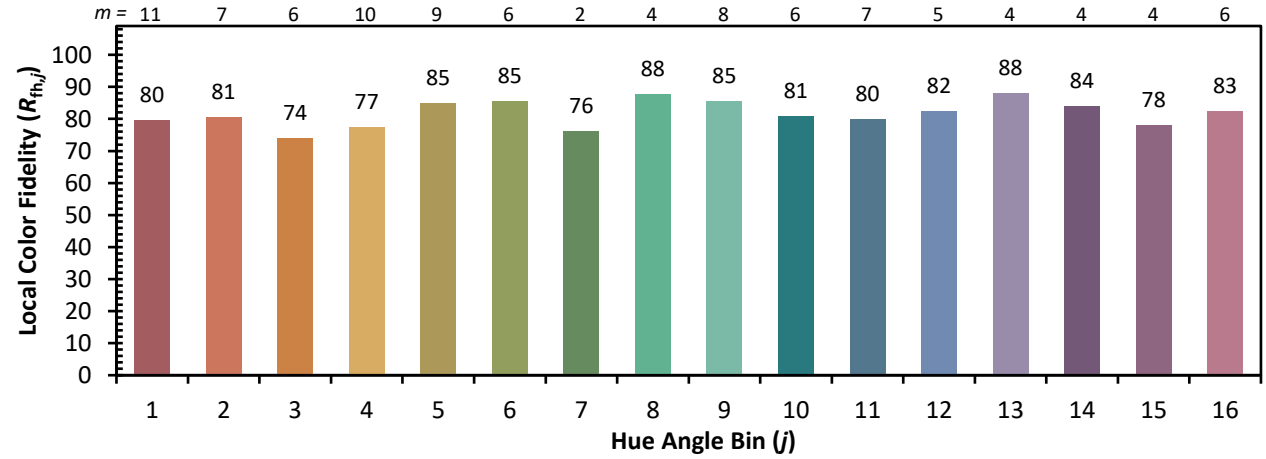
Color Rendition by Hue-Angle Bin







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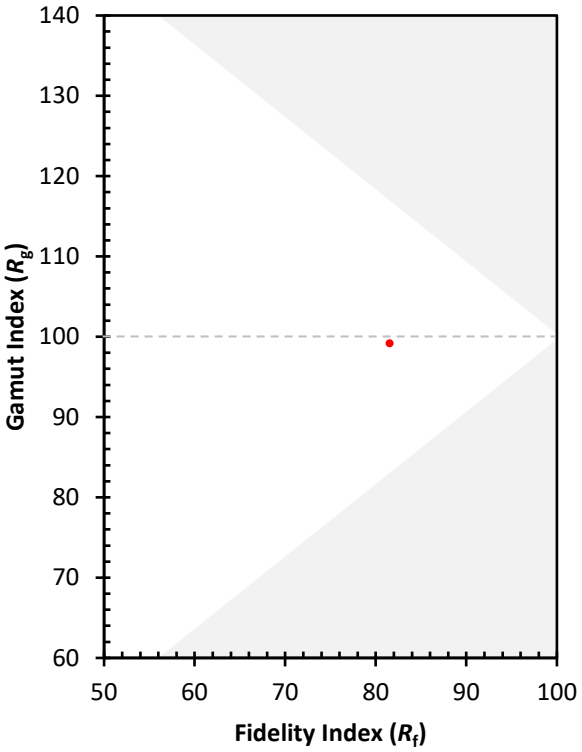
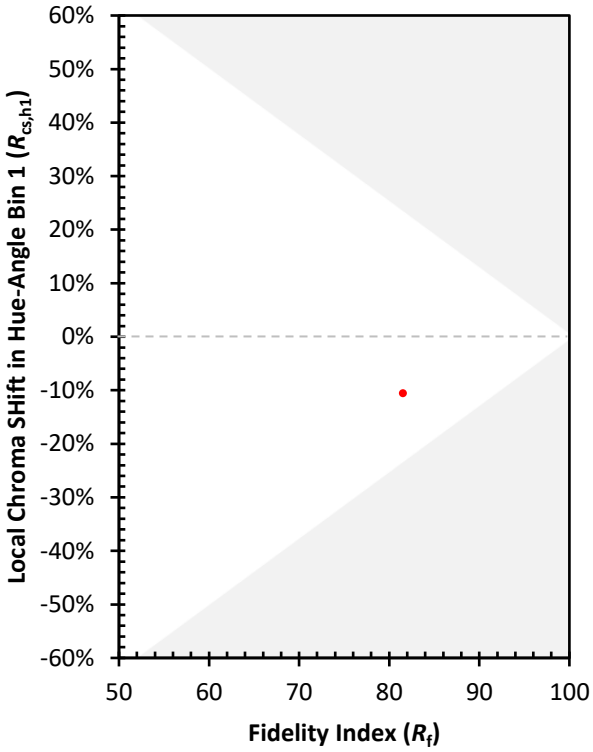
Measure Comparisons





(END OF REPORT)