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: P632056

Luminaire Tested: GWS-SA2B-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:	P632056
	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-SA2B-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5439.2 lumens
Efficiency:	N/A
Efficacy:	117.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	46.4
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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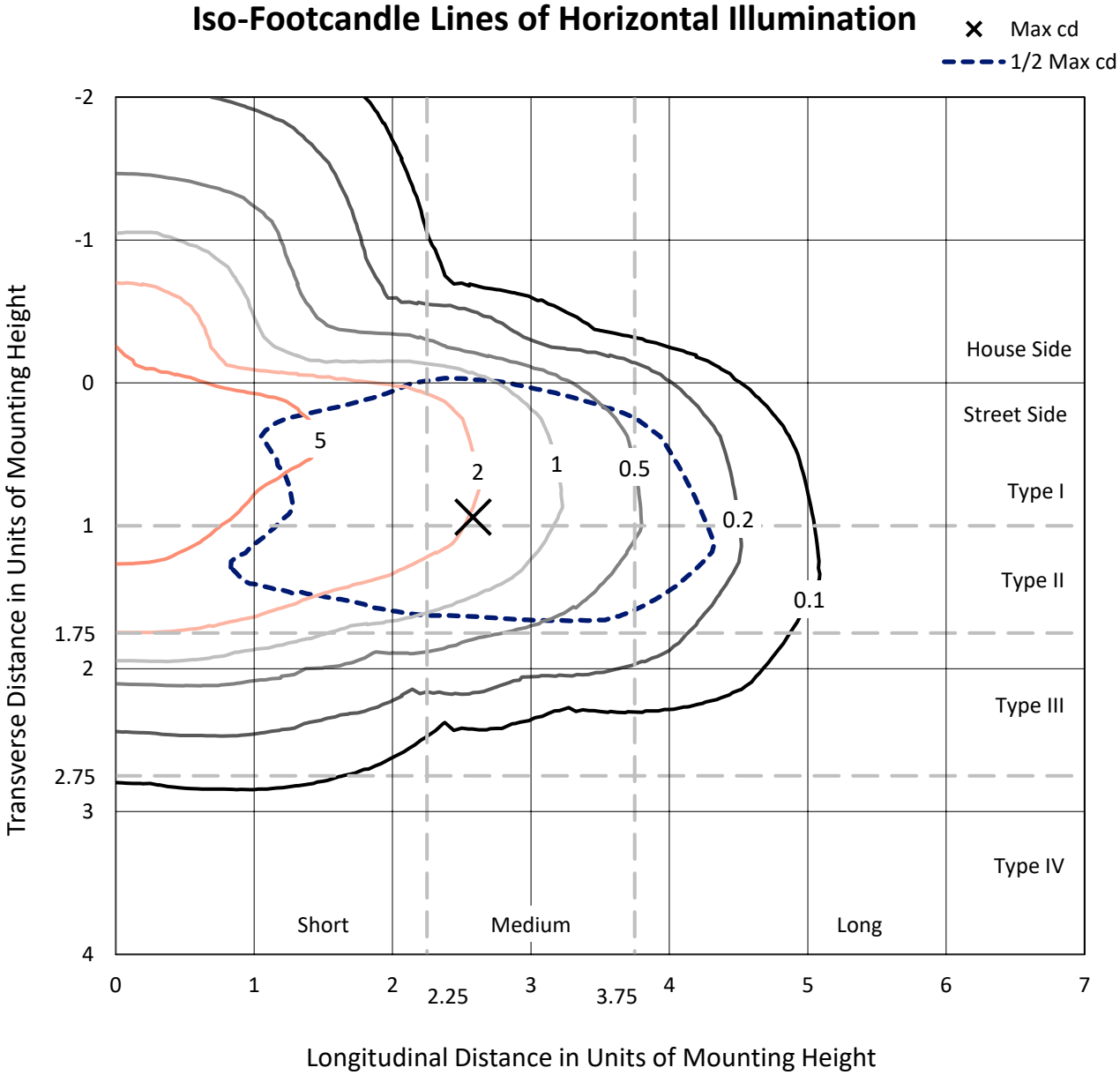
Scaled Data Report

REPORT NUMBER: P632056
CATALOG NUMBER: GWS-SA2B-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Medium - N/A

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REPORT NUMBER: P632056
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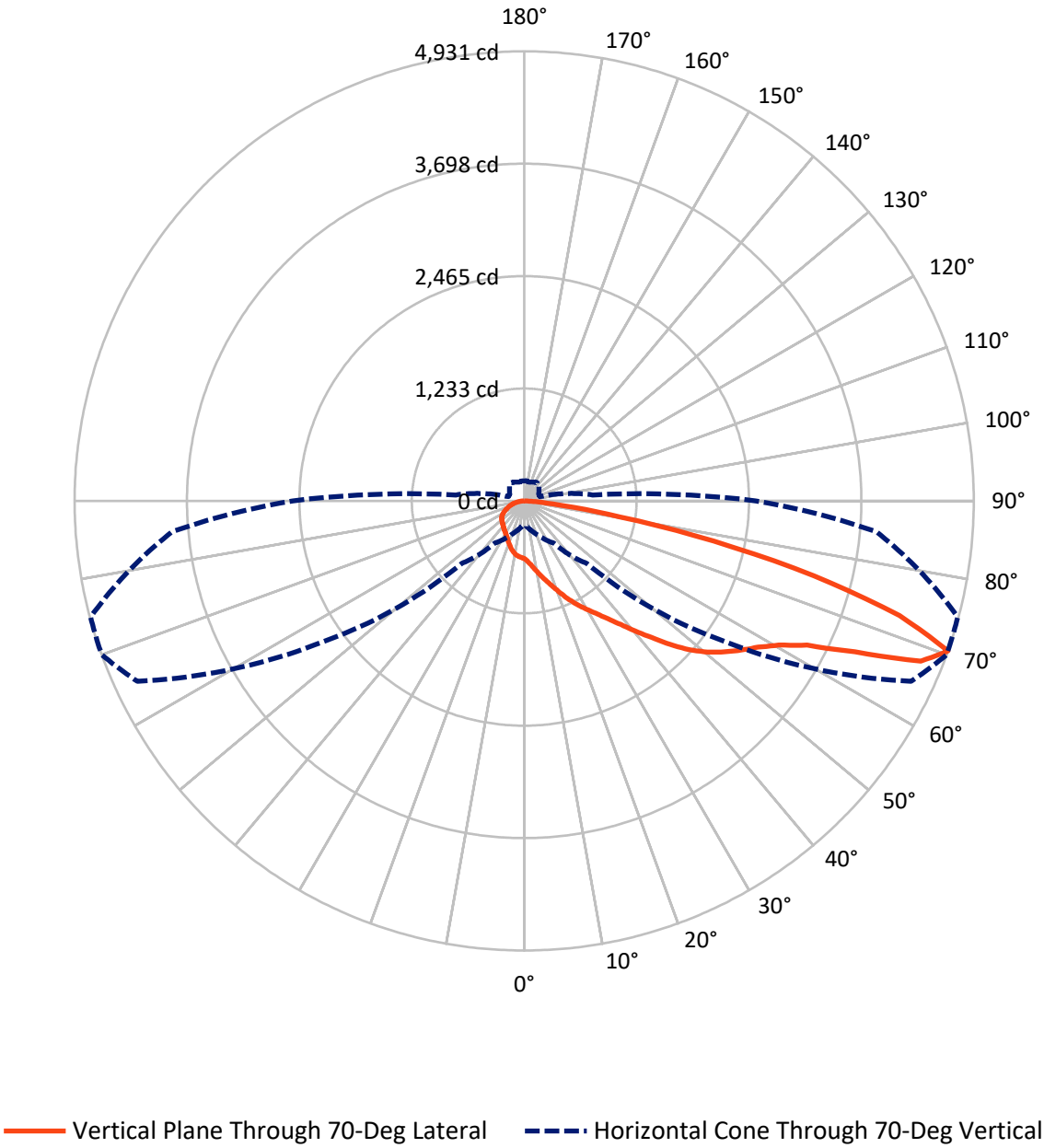
Luminous Intensity Polar Plot



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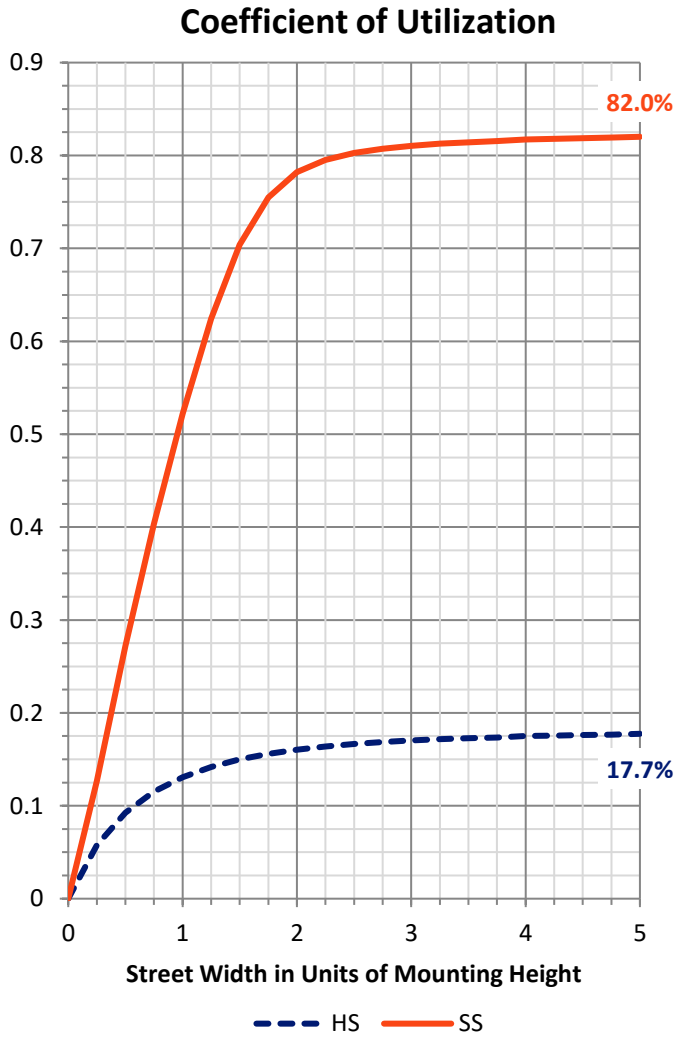
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.7	0.0	974.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	4464.5	0.0	4464.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	5439.2	0.0	5439.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.2
10°-20°	209.7	3.9
20°-30°	371.5	6.8
30°-40°	559.2	10.3
40°-50°	846.0	15.6
50°-60°	1211.9	22.3
60°-70°	1339.6	24.6
70°-80°	756.0	13.9
80°-90°	80.9	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°	5439.2	100.0
0°-180°	5439.2	100.0



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REPORT NUMBER: P632056
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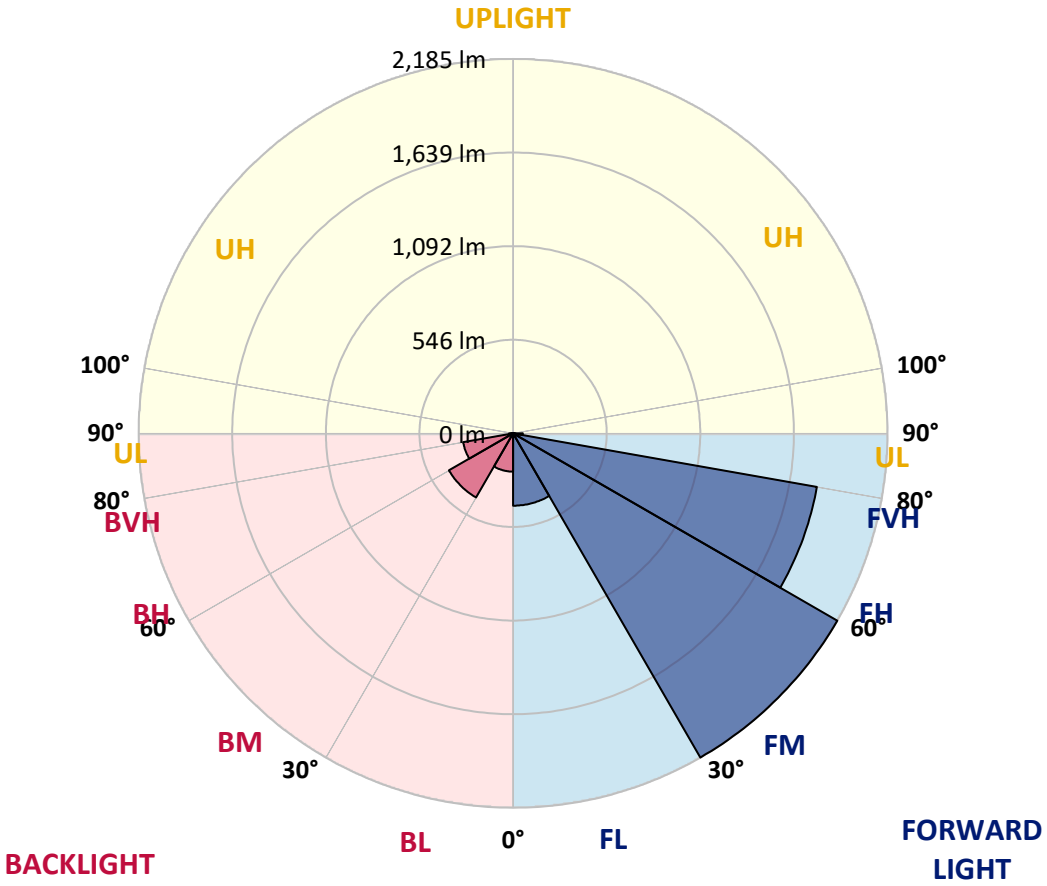
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	422.2	7.8			
FM	(30°-60°)	2184.9	40.2			
FH	(60°-80°)	1800.2	33.1			G2/5000
FVH	(80°-90°)	57.2	1.1			G1/100
BL	(0°-30°)	223.5	4.1	B1/500		
BM	(30°-60°)	432.1	7.9	B1/1000		
BH	(60°-80°)	295.4	5.4	B1/500		G1/500
BVH	(80°-90°)	23.7	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: P632056
CATALOG NUMBER: GWS-SA2B-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	*634.3*	634.3	634.3
2.5°	702.7	701.5	702.3	701.5	697.2	686.6	677.9	666.9	*659.5*	655.2	644.9
5°	785.2	784.1	781.3	777.4	769.5	755.0	733.4	709.4	*694.8*	683.8	662.2
7.5°	844.6	844.6	844.2	839.5	834.0	818.6	793.1	761.7	*740.4*	721.6	686.2
10°	874.8	876.8	879.6	886.2	885.1	876.8	852.8	819.0	*792.3*	770.3	717.6
12.5°	891.4	892.5	897.2	911.0	925.2	927.1	913.0	877.6	*848.5*	819.0	752.6
15°	912.6	913.0	919.3	935.8	956.6	977.4	973.9	938.5	*908.6*	876.0	791.5
17.5°	929.1	931.8	943.2	962.5	988.4	1017.1	1034.4	1012.4	*975.5*	938.1	834.0
20°	935.0	936.9	951.9	981.4	1016.7	1057.2	1095.7	1089.8	*1052.5*	1008.5	881.9
22.5°	956.2	956.2	967.2	992.0	1033.6	1092.6	1155.1	1170.4	*1137.4*	1085.9	933.4
25°	1003.0	1001.4	1006.5	1016.7	1048.2	1120.9	1213.6	1259.6	*1222.7*	1164.9	984.9
27.5°	1067.0	1066.2	1065.9	1067.4	1078.0	1145.6	1263.1	1342.9	*1306.0*	1240.7	1030.9
30°	1136.6	1134.2	1139.3	1134.6	1132.3	1175.1	1305.2	1417.6	*1388.9*	1315.8	1069.0
32.5°	1231.3	1227.0	1225.8	1210.5	1201.0	1221.1	1339.0	1502.5	*1479.7*	1396.8	1111.8
35°	1356.3	1352.4	1332.3	1307.9	1280.0	1289.5	1381.0	1585.4	*1587.0*	1498.2	1168.0
37.5°	1482.4	1483.2	1467.5	1410.1	1381.4	1375.9	1445.1	1686.4	*1720.2*	1619.2	1240.7
40°	1587.4	1592.1	1592.1	1531.6	1488.7	1483.6	1535.1	1806.3	*1873.5*	1767.8	1332.7
42.5°	1667.2	1671.5	1685.2	1641.6	1596.4	1614.1	1644.4	1926.6	*2047.2*	1951.3	1449.0
45°	1754.8	1758.3	1765.8	1740.7	1714.3	1761.5	1768.2	2070.4	*2246.1*	2157.2	1584.2
47.5°	1871.1	1868.0	1868.8	1850.3	1829.9	1906.1	1904.5	2191.4	*2438.3*	2382.8	1730.8
50°	2015.8	2021.7	2016.2	1979.6	1955.6	2025.2	2034.2	2325.5	*2607.2*	2606.1	1878.6
52.5°	2154.9	2157.2	2186.3	2187.9	2138.8	2124.2	2147.8	2460.7	*2749.9*	2810.4	2020.5
55°	2162.0	2171.0	2258.3	2321.1	2400.5	2283.8	2262.6	2589.6	*2887.9*	3010.5	2167.9
57.5°	2011.4	2026.0	2174.1	2309.7	2530.6	2557.7	2459.1	2756.2	*3025.8*	3207.4	2338.4
60°	1690.0	1720.2	1921.4	2129.0	2472.1	2754.6	2861.1	2982.6	*3207.0*	3408.6	2545.5
62.5°	1079.2	1091.0	1373.2	1720.6	2208.3	2735.4	3299.0	3381.5	*3482.9*	3670.7	2864.7
65°	540.4	578.1	743.6	1026.9	1592.5	2410.4	3520.2	4112.1	*3987.9*	4119.6	3381.9
67.5°	366.7	378.9	462.6	617.0	933.8	1707.6	3383.1	4727.6	*4691.0*	4712.6	3933.3
70°	*270.4*	*278.3*	*344.3*	*437.0*	*564.8*	*969.6*	*2693.3*	*4681.2*	*4930.7*	*4922.9*	*3875.5*
72.5°	197.3	201.2	251.1	333.7	418.6	501.5	1644.8	3781.6	*4304.3*	4531.0	3389.3
75°	143.4	148.2	174.5	249.6	325.4	312.8	812.0	2731.4	*3282.4*	3718.7	2761.3
77.5°	106.9	112.8	125.0	156.4	227.9	224.0	351.0	1773.7	*2123.1*	2428.8	1677.4
80°	77.0	78.2	85.3	100.2	144.6	131.3	167.0	924.8	*1060.3*	1161.7	657.5
82.5°	46.8	47.9	57.0	61.7	89.6	82.5	86.9	299.5	*429.2*	455.5	245.6
85°	13.8	14.5	25.9	28.3	37.3	35.4	35.0	121.8	*145.4*	185.9	96.7
87.5°	0.0	0.0	0.0	0.0	0.4	2.4	4.3	21.6	*32.6*	45.2	23.6
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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Scaled Data Report

REPORT NUMBER: P632056
CATALOG NUMBER: GWS-SA2B-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
2.5°	641.0	632.0	627.2	619.0	613.1	607.2	601.3	595.8	593.4	589.9	590.7
5°	652.4	638.3	624.1	608.0	594.2	582.8	572.6	563.6	559.7	556.1	557.7
7.5°	669.7	648.5	621.4	591.9	570.3	554.5	543.9	537.6	535.7	532.9	532.9
10°	691.7	659.9	612.3	570.3	544.3	531.7	527.0	526.6	528.6	529.0	528.2
12.5°	716.1	670.9	599.0	544.7	522.7	518.8	522.3	529.0	535.7	539.2	538.4
15°	741.2	677.9	576.2	520.3	507.0	512.1	523.5	536.9	549.8	556.5	556.1
17.5°	764.8	679.5	546.7	496.8	493.2	506.2	525.9	546.7	564.4	573.8	574.2
20°	791.1	676.8	516.4	475.5	479.5	500.7	526.6	551.8	572.6	582.1	584.4
22.5°	815.1	667.3	486.9	455.5	467.7	494.0	520.3	543.9	562.4	571.4	574.6
25°	836.7	649.3	454.7	438.6	458.6	484.6	504.6	521.1	534.1	539.6	543.9
27.5°	848.5	622.1	430.3	425.2	450.0	471.2	482.2	487.3	491.7	490.1	493.2
30°	850.9	588.3	409.1	414.6	437.0	452.8	455.1	450.0	442.5	430.3	433.1
32.5°	848.5	549.4	391.4	403.2	422.5	431.9	428.8	415.4	397.3	378.5	379.7
35°	849.3	510.1	376.9	390.7	405.6	410.7	402.8	384.4	365.1	347.8	347.0
37.5°	857.9	477.1	364.7	378.5	389.1	389.9	381.2	362.0	352.1	339.2	337.6
40°	881.9	452.8	353.7	366.3	373.0	372.6	362.8	349.0	355.7	351.4	350.2
42.5°	921.2	437.8	344.7	353.3	358.0	358.8	351.0	342.3	356.9	351.4	349.4
45°	984.5	437.0	338.4	340.3	347.8	353.3	347.8	338.0	343.5	316.8	311.7
47.5°	1059.6	450.4	333.7	329.0	341.9	351.7	343.1	327.4	316.0	291.6	288.1
50°	1150.0	477.5	329.3	316.8	333.3	345.9	337.2	315.6	298.3	285.3	283.4
52.5°	1257.2	513.3	323.8	303.0	320.3	342.7	337.2	314.4	291.6	279.8	277.9
55°	1369.7	554.5	317.6	286.5	305.8	343.5	340.0	306.2	286.5	280.2	278.6
57.5°	1509.2	604.1	306.2	267.2	292.8	336.4	329.0	301.4	283.0	277.9	276.3
60°	1690.3	677.6	284.5	247.6	277.9	323.8	319.1	293.6	273.5	269.2	268.0
62.5°	1977.2	802.1	258.2	228.7	260.2	297.5	304.6	278.6	261.7	261.4	261.0
65°	2444.9	951.9	227.2	211.8	241.7	275.9	285.3	263.3	249.6	253.9	253.5
67.5°	2772.7	964.8	201.6	194.1	220.1	252.3	266.1	247.6	232.7	240.9	240.5
70°	*2539.7*	*752.6*	*179.6*	*175.7*	*196.9*	*226.8*	*245.2*	*227.9*	*213.0*	*220.9*	*219.3*
72.5°	2141.9	576.9	158.8	156.4	173.3	200.0	218.5	208.3	192.6	192.6	189.0
75°	1721.4	475.9	136.8	135.6	147.0	172.9	193.8	176.5	161.9	161.1	158.8
77.5°	987.2	312.1	114.8	114.0	117.5	144.6	150.5	147.0	136.0	130.9	129.3
80°	393.4	162.3	90.4	85.3	88.8	106.1	118.7	112.8	103.4	97.1	93.5
82.5°	152.5	81.4	63.7	55.8	60.9	76.6	86.1	84.1	77.8	63.7	59.7
85°	62.1	39.7	38.1	32.2	35.4	41.3	49.5	42.8	35.4	25.2	24.0
87.5°	16.5	14.5	14.1	8.6	6.7	2.0	0.4	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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Peachtree City, GA 30269

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

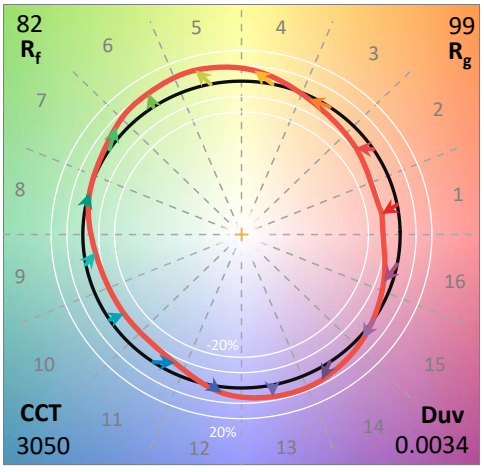
Test Information

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

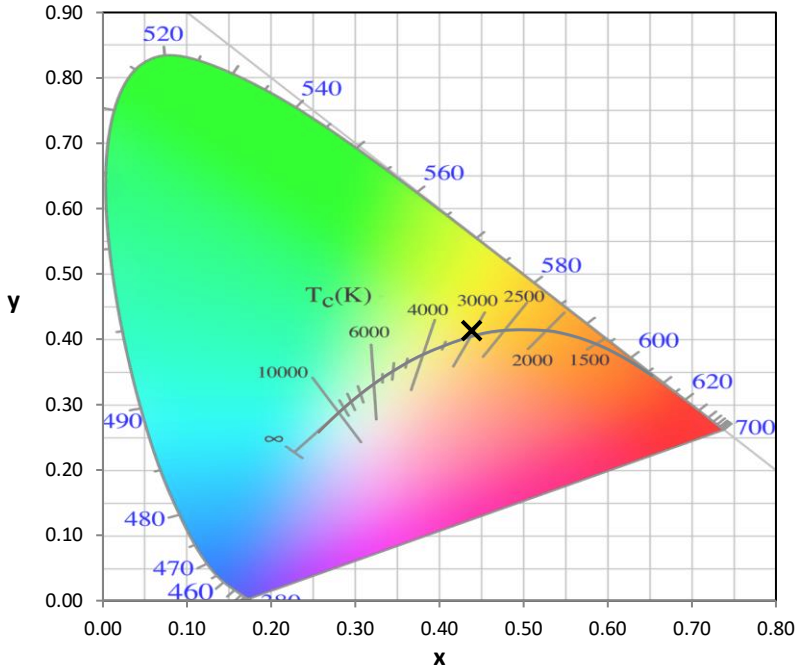
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

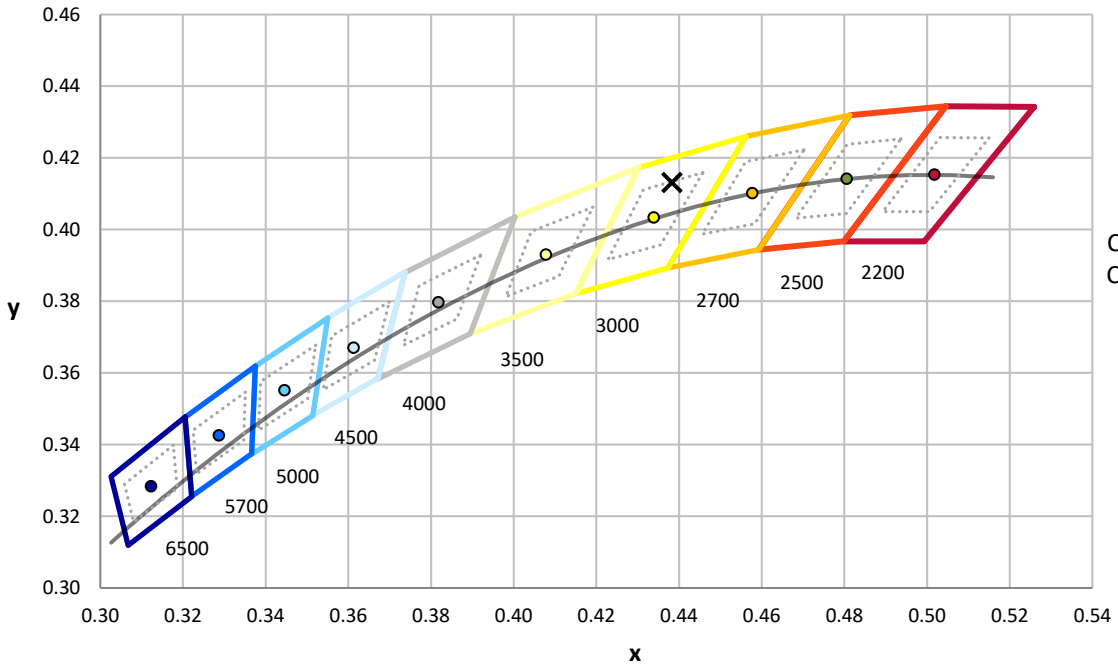
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

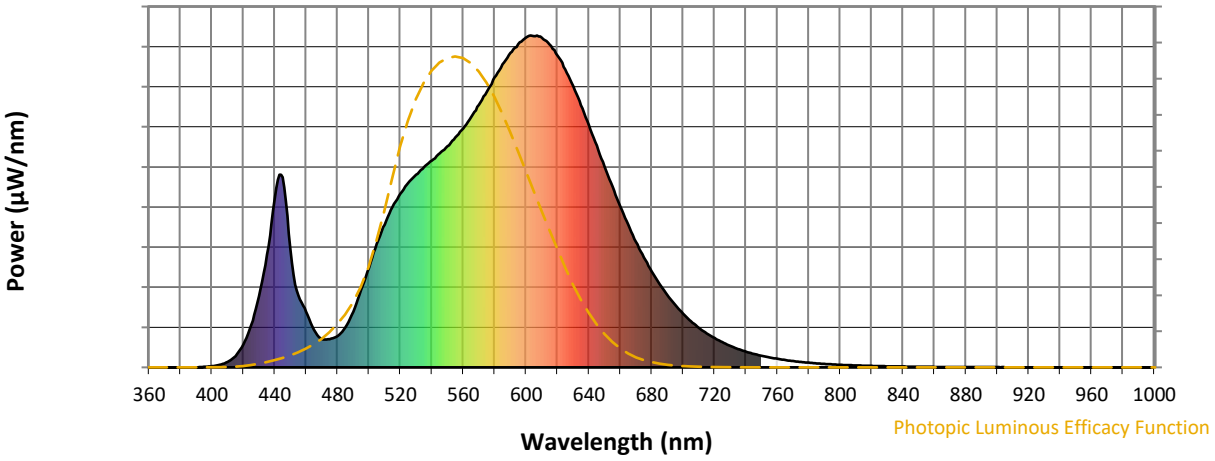


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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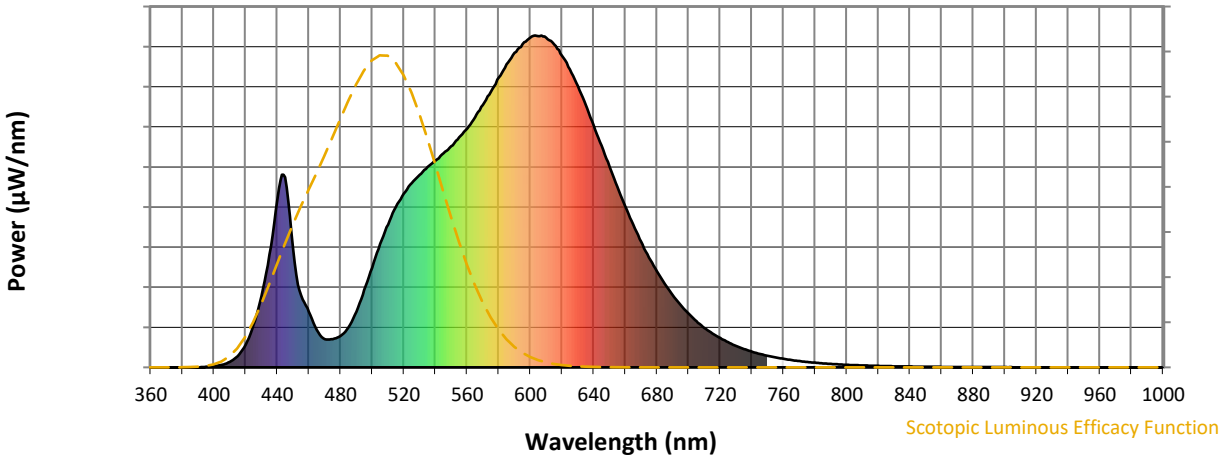
Scotopic Flux vs. Wavelength



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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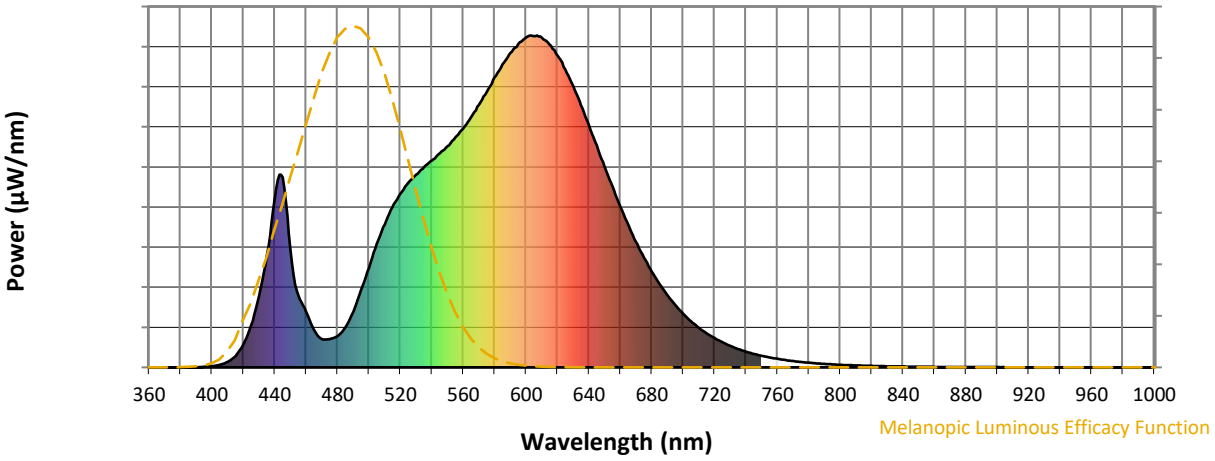
Melanopic Flux vs. Wavelength



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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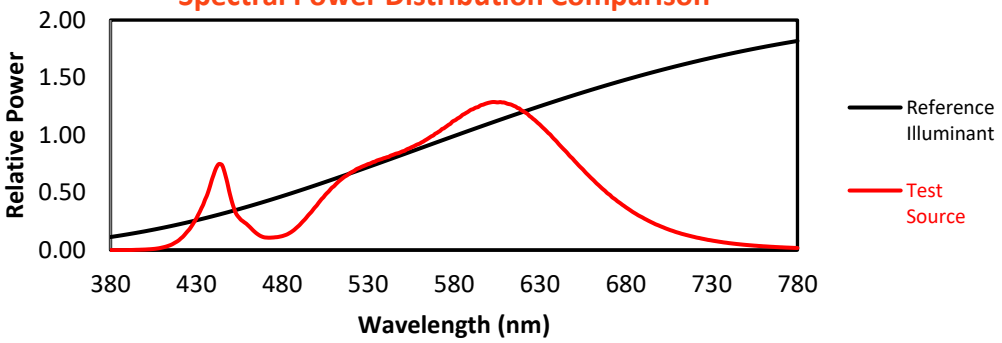
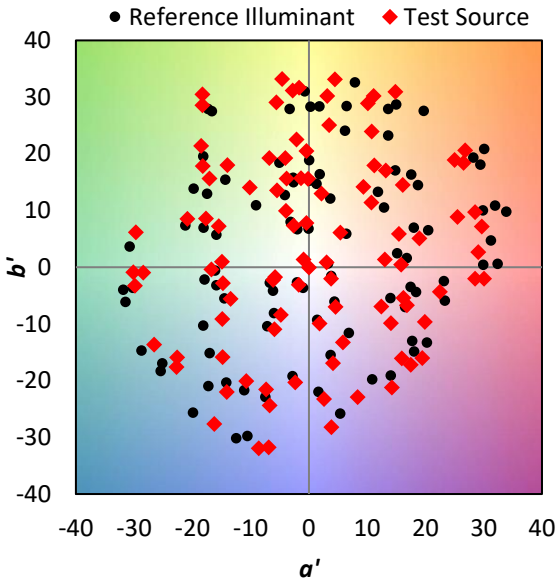
Summary

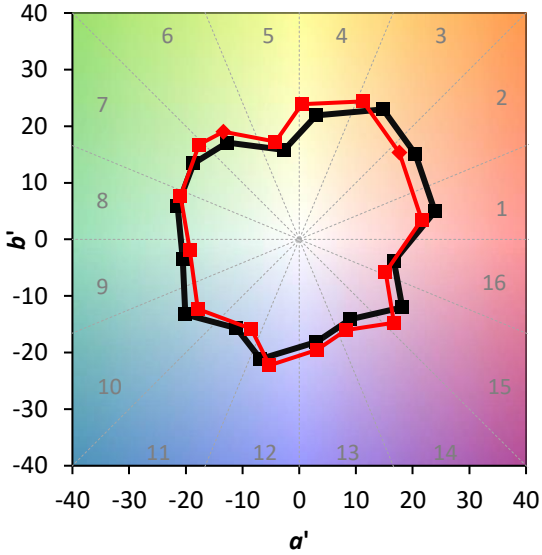
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

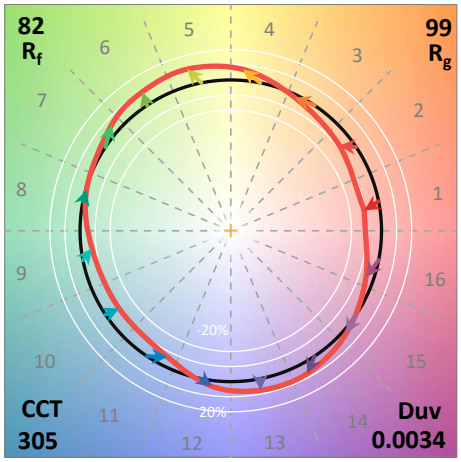
Spectral Power Distribution Comparison

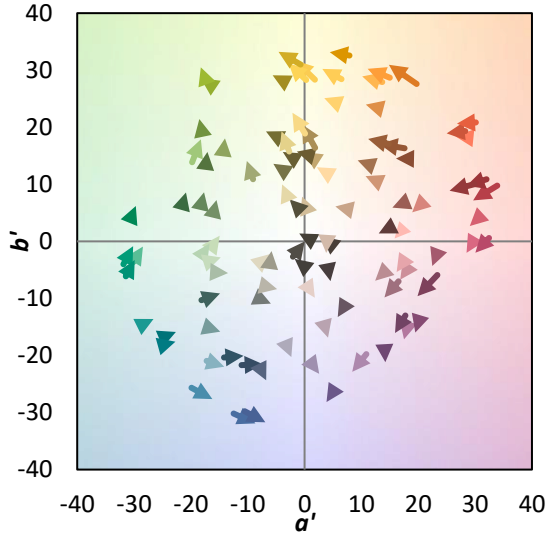


Color Vector Graphics









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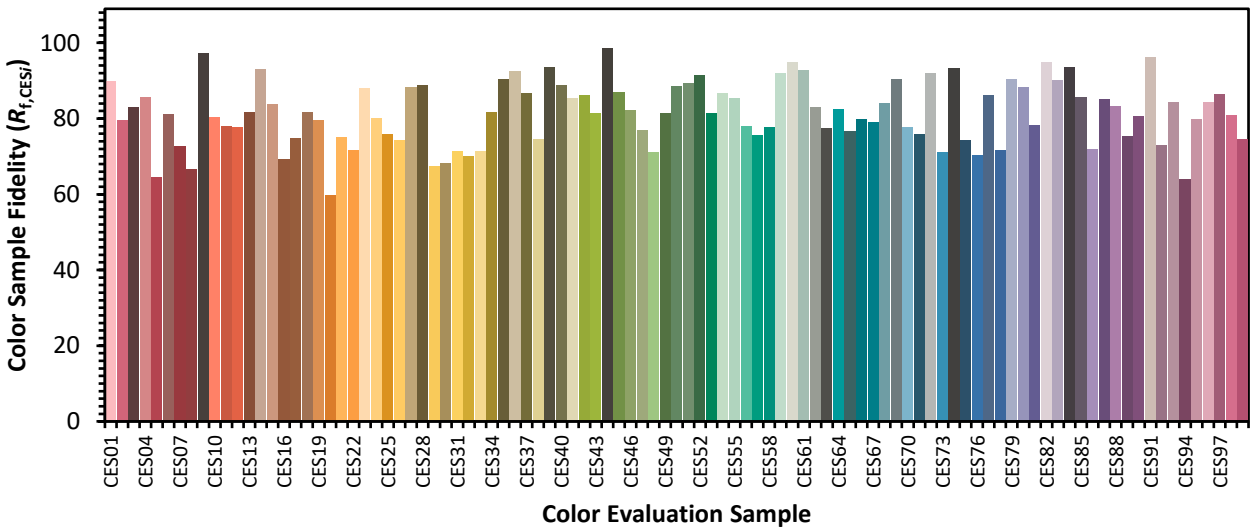
Individual Sample Fidelity Index ($R_{f,i}$)

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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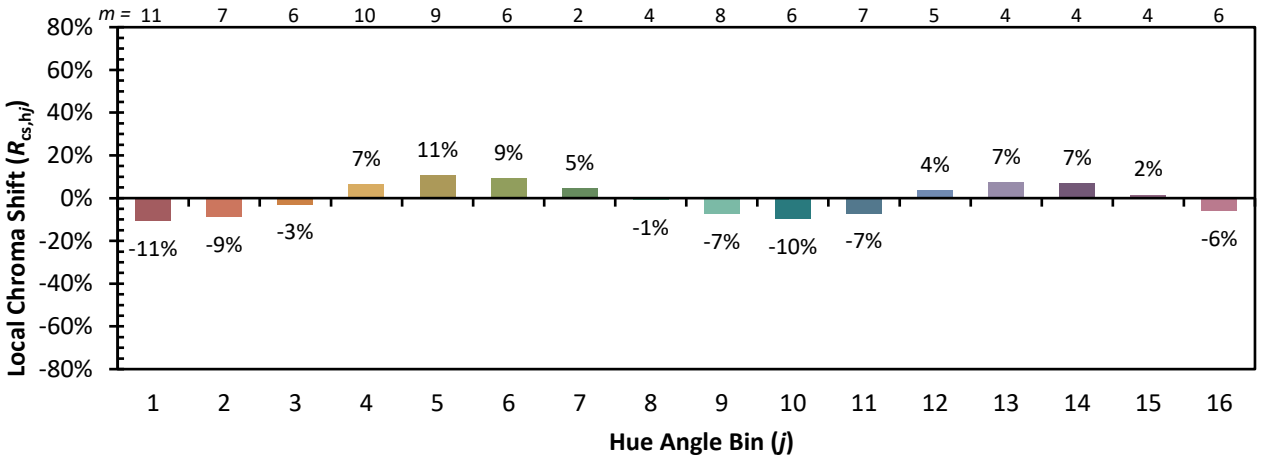
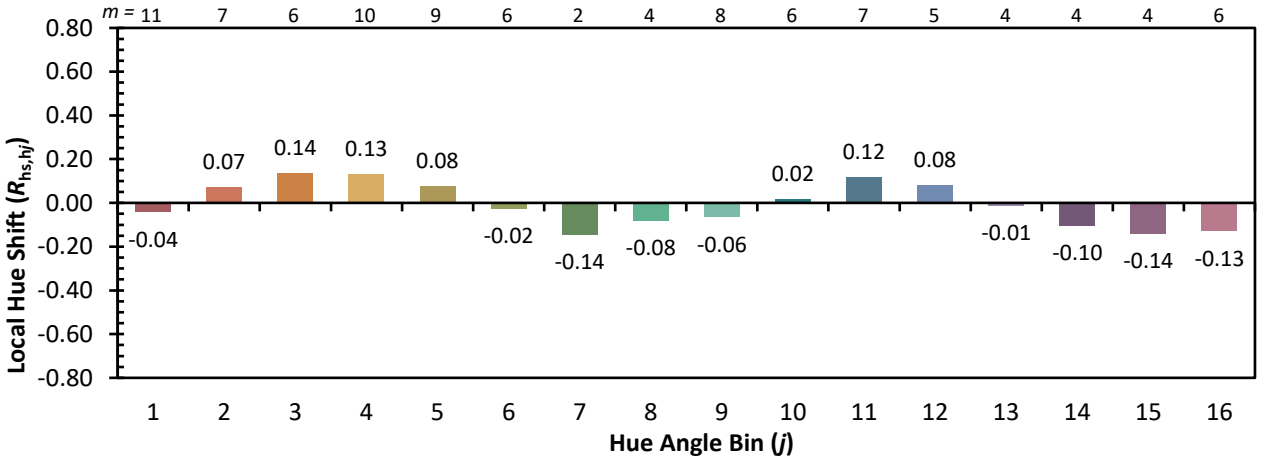
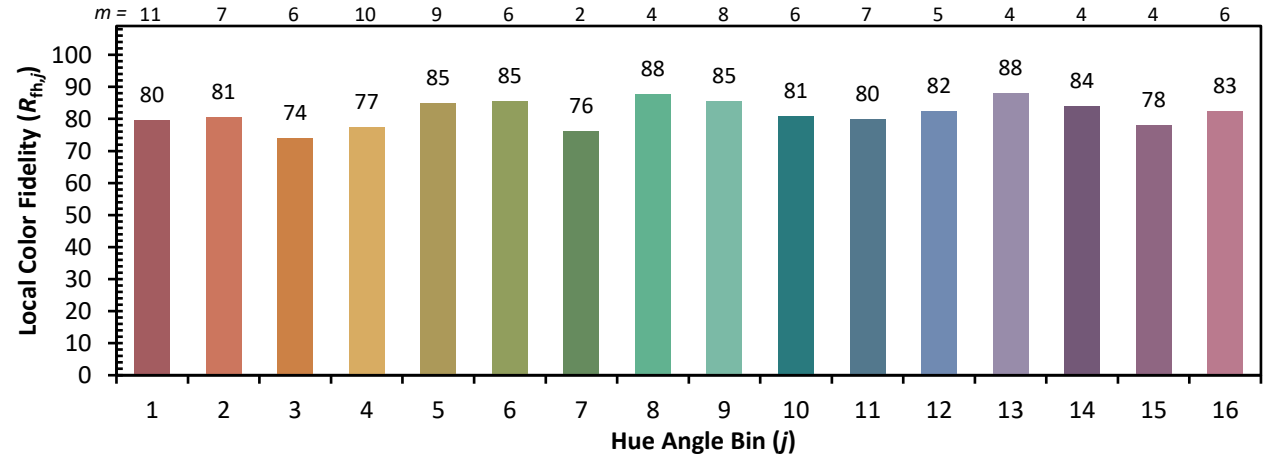
Color Rendition by Hue-Angle Bin







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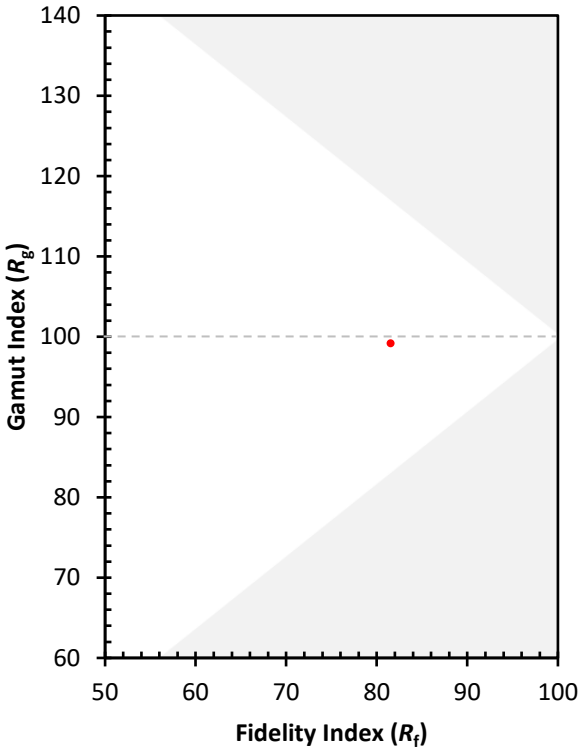
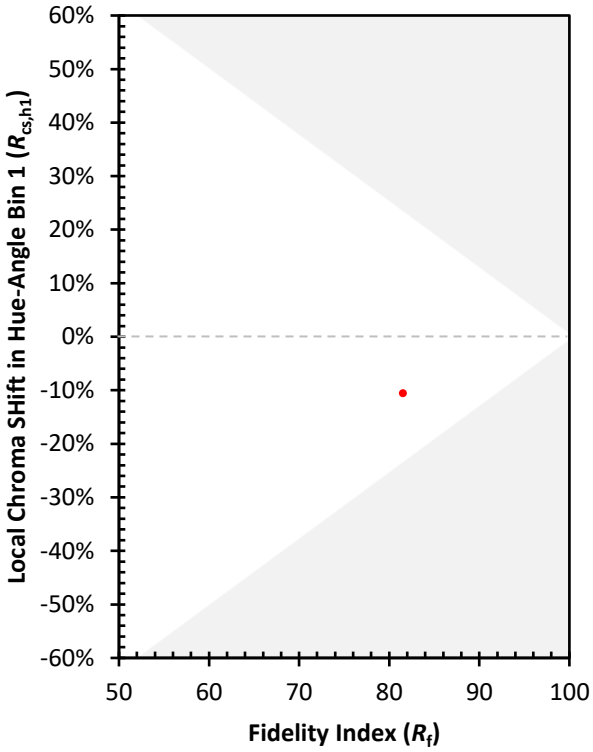
Measure Comparisons





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