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: P632065

Luminaire Tested: GWS-SA2B-830-U-T3R-W-GRSBK

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:	P632065
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-T3R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3438.4 lumens
Efficiency:	N/A
Efficacy:	74.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

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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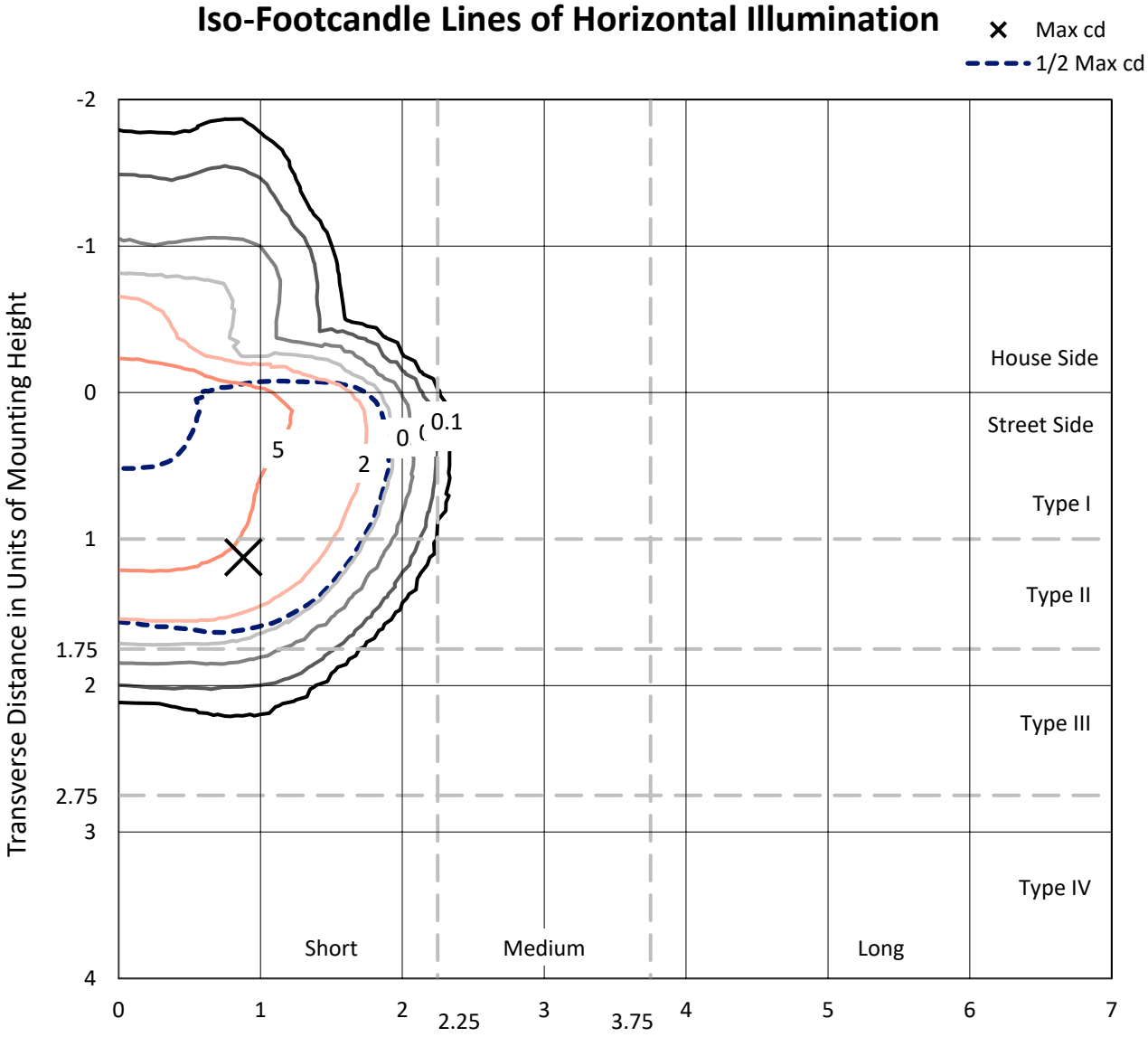
REPORT NUMBER: P632065
CATALOG NUMBER: GWS-SA2B-830-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - N/A

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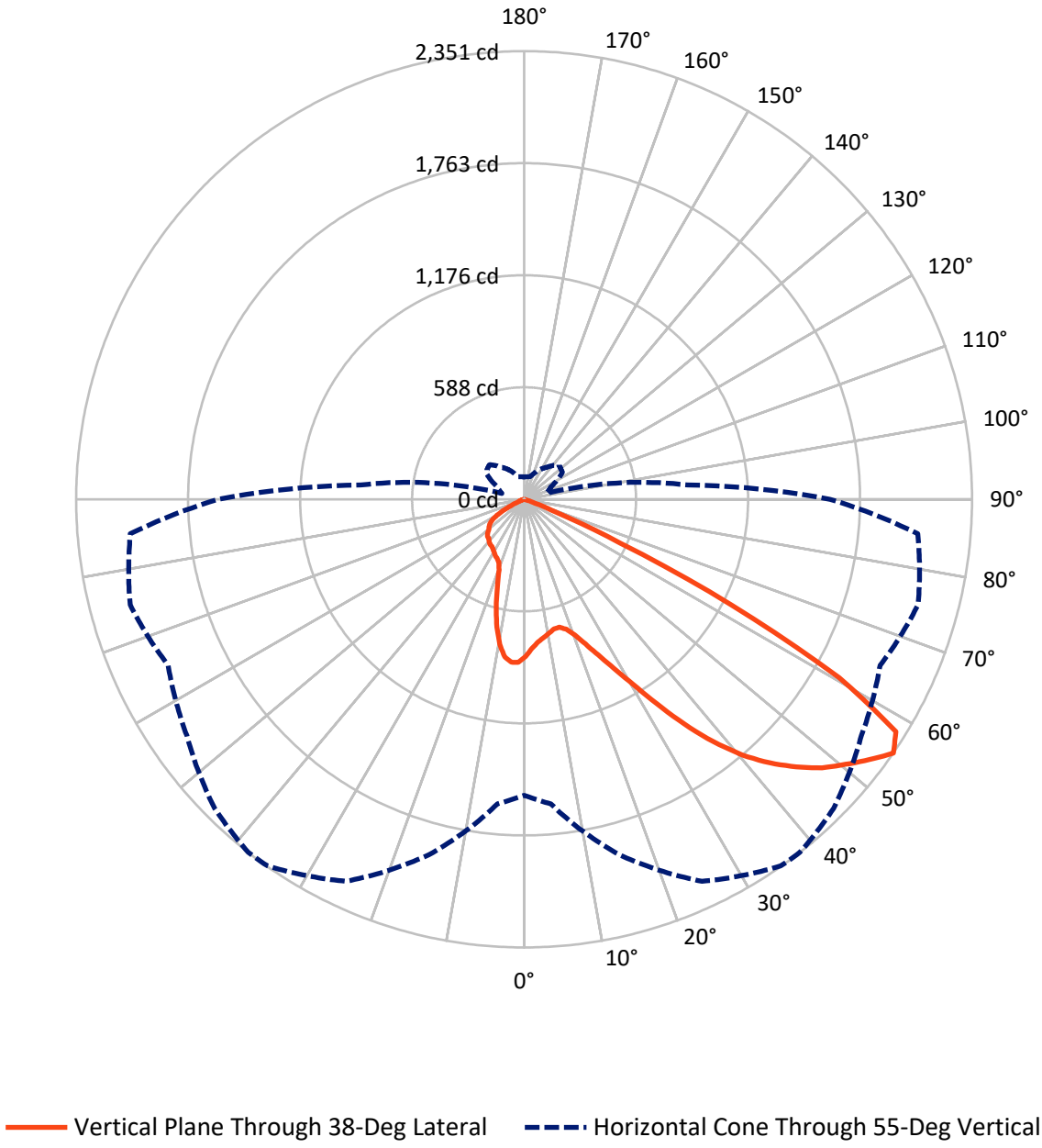
Luminous Intensity Polar Plot



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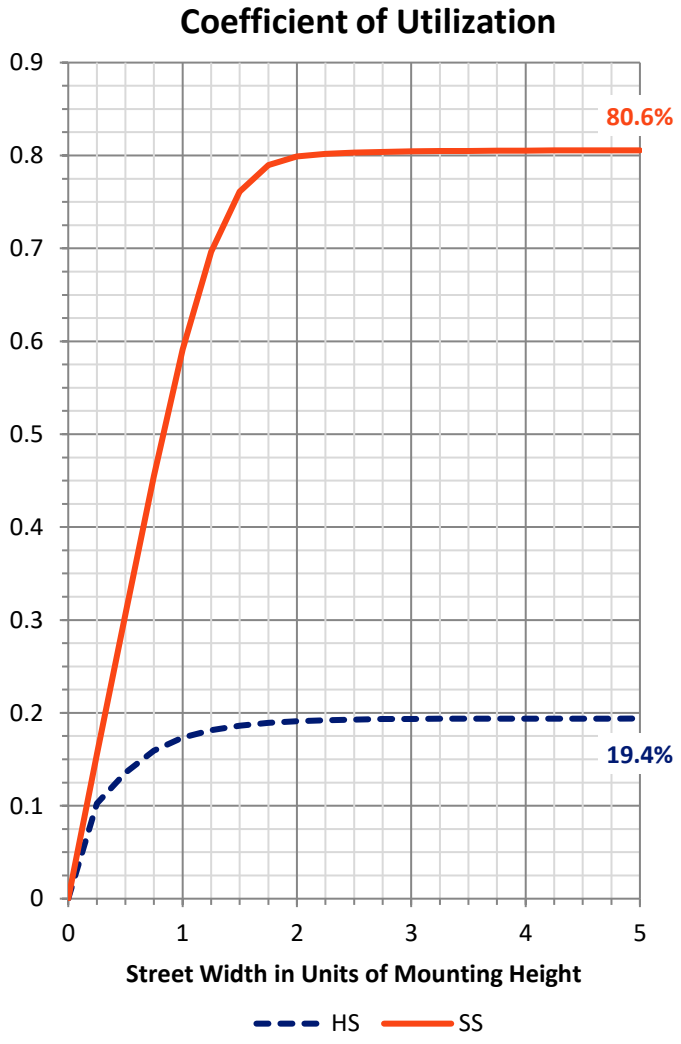
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	669.9	0.0	669.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2768.5	0.0	2768.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	3438.4	0.0	3438.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	2.2
10°-20°	205.3	6.0
20°-30°	352.2	10.2
30°-40°	584.2	17.0
40°-50°	858.8	25.0
50°-60°	1003.5	29.2
60°-70°	340.2	9.9
70°-80°	17.4	0.5
80°-90°	0.7	0.0
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°	3438.4	100.0
0°-180°	3438.4	100.0



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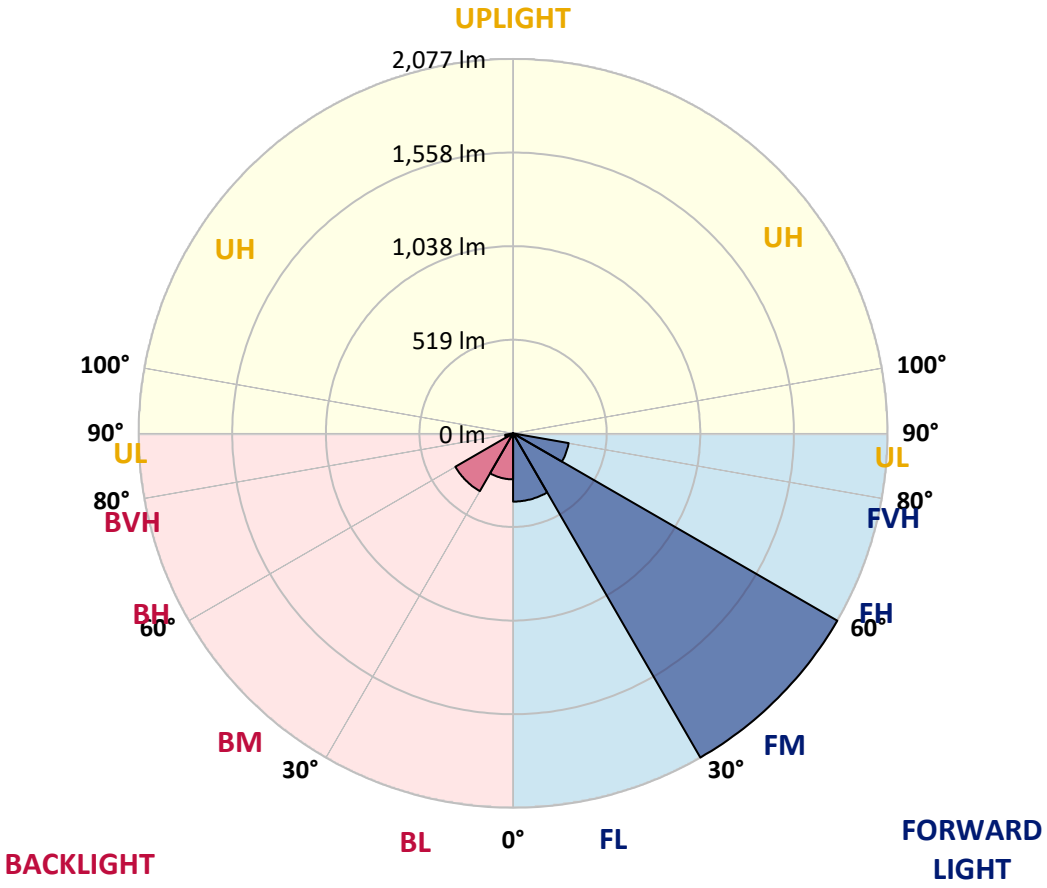
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	378.5	11.0			
FM	(30°-60°)	2076.7	60.4			
FH	(60°-80°)	312.9	9.1			G0/660
FVH	(80°-90°)	0.4	0.0			G0/10
BL	(0°-30°)	255.2	7.4	B1/500		
BM	(30°-60°)	369.8	10.8	B1/1000		
BH	(60°-80°)	44.6	1.3	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G0
Type II Short



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REPORT NUMBER: P632065
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6
2.5°	768.0	766.4	769.5	775.8	781.7	783.7	789.6	797.8	802.9	815.1	824.9
5°	733.4	732.6	735.7	741.2	749.1	751.8	760.9	774.6	788.4	809.6	830.4
7.5°	701.9	701.5	706.3	718.4	729.8	733.4	744.4	761.3	779.8	812.4	843.0
10°	660.7	661.1	670.1	687.4	708.2	715.3	733.0	757.3	781.3	823.4	865.8
12.5°	647.3	648.1	652.8	666.2	689.0	698.0	722.8	759.7	790.4	839.1	895.3
15°	679.9	679.9	676.0	677.6	687.8	696.0	722.0	767.6	805.7	858.0	924.4
17.5°	743.2	740.8	731.0	717.7	714.1	716.9	737.7	784.5	827.3	880.0	957.4
20°	828.9	829.7	810.4	782.5	760.1	759.7	772.3	814.3	858.4	906.3	993.2
22.5°	932.6	929.5	903.9	865.8	826.9	823.8	828.9	859.9	903.2	948.0	1037.2
25°	1052.9	1051.3	1015.2	964.1	912.6	905.1	905.1	935.8	967.2	1007.3	1089.8
27.5°	1178.7	1178.7	1143.7	1084.7	1016.3	1003.0	1001.0	1037.2	1058.0	1065.9	1134.3
30°	1308.0	1306.4	1271.8	1211.3	1138.2	1124.4	1118.9	1145.7	1160.6	1137.0	1189.7
32.5°	1439.2	1442.0	1407.0	1350.8	1285.6	1276.5	1259.6	1259.6	1271.8	1238.8	1276.9
35°	1580.3	1579.5	1552.0	1513.9	1458.1	1447.9	1420.0	1376.4	1394.8	1380.3	1397.6
37.5°	1704.9	1710.8	1697.5	1669.2	1624.0	1613.7	1567.8	1488.8	1502.9	1525.7	1541.0
40°	1831.5	1836.2	1849.5	1840.5	1783.5	1764.7	1682.9	1553.2	1568.9	1647.1	1691.2
42.5°	1955.7	1958.0	1985.1	2000.1	1923.8	1890.8	1770.2	1592.5	1609.0	1742.3	1819.3
45°	2034.7	2039.8	2084.6	2130.2	2047.6	2002.4	1846.0	1642.8	1649.9	1808.3	1914.0
47.5°	2031.5	2043.3	2127.4	2210.3	2154.1	2105.4	1937.2	1723.4	1711.6	1870.4	1976.5
50°	1968.2	1982.4	2103.0	2234.7	2230.8	2185.6	2038.6	1840.1	1803.2	1925.4	1984.4
52.5°	1837.0	1877.8	2060.2	2237.9	2292.5	2269.7	2164.0	1997.3	1927.0	2004.4	1996.9
55°	1553.2	1603.5	1930.1	2211.1	2348.3	2351.0	2295.6	2161.2	2061.4	2140.4	2074.4
57.5°	1179.1	1219.1	1485.6	1968.2	2255.9	2301.1	2346.7	2247.7	2144.3	2233.1	2092.4
60°	710.6	757.0	930.3	1444.3	1822.0	1899.1	2077.9	2058.6	1934.0	1972.2	1715.9
62.5°	288.1	312.5	429.6	795.9	1146.8	1218.8	1390.1	1419.2	1388.5	1349.6	1040.7
65°	105.3	115.2	172.1	329.0	527.4	553.8	644.2	695.6	738.1	628.4	387.1
67.5°	65.2	71.5	112.0	169.0	191.8	178.4	181.6	216.6	206.7	127.7	69.2
70°	48.3	53.5	87.6	117.1	77.4	59.7	40.5	43.2	38.9	34.2	33.8
72.5°	33.4	38.1	65.6	69.2	29.9	21.2	14.9	20.8	23.6	23.2	24.0
75°	22.0	25.5	41.3	27.1	7.5	5.9	5.1	11.0	14.1	14.1	14.5
77.5°	13.0	14.9	14.5	5.5	1.6	1.6	1.2	2.0	3.1	3.5	4.3
80°	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
82.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2
85°	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2
87.5°	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2
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: P632065
CATALOG NUMBER: GWS-SA2B-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6
2.5°	832.4	829.7	841.1	849.3	856.0	859.1	854.8	854.4	854.4	845.8	843.4
5°	842.2	843.4	859.5	866.6	867.8	863.9	854.0	847.3	843.4	834.4	829.3
7.5°	861.1	865.0	880.4	879.2	868.6	850.5	824.6	804.5	791.5	777.4	768.7
10°	888.2	895.7	905.1	888.6	854.8	808.8	755.4	717.3	694.5	678.4	668.5
12.5°	921.2	928.7	925.6	886.7	816.3	734.2	665.4	610.4	584.0	569.5	559.3
15°	954.6	959.4	938.9	863.1	748.3	637.9	561.2	506.6	474.4	462.6	453.9
17.5°	988.8	987.7	941.3	816.7	657.5	529.4	453.9	416.6	407.6	405.6	404.8
20°	1024.6	1014.0	931.8	750.3	548.3	422.1	379.3	381.6	398.1	406.0	407.6
22.5°	1065.5	1038.8	908.3	660.3	436.6	351.8	356.1	379.3	401.7	412.3	413.8
25°	1109.1	1061.5	869.0	544.7	344.3	323.5	349.0	375.7	399.7	412.7	414.2
27.5°	1137.8	1067.0	804.5	428.4	295.6	312.5	339.6	365.1	389.9	404.0	406.0
30°	1168.8	1064.7	716.9	330.1	279.0	303.0	326.6	349.8	372.6	388.3	389.9
32.5°	1214.4	1063.1	610.0	268.0	272.4	295.6	312.8	332.1	347.8	356.9	355.7
35°	1274.2	1061.2	485.4	241.7	268.4	289.7	303.4	312.5	295.2	289.7	290.8
37.5°	1350.8	1065.9	380.4	230.7	267.3	288.1	299.9	273.9	247.2	237.0	235.4
40°	1435.7	1078.1	290.0	226.4	271.2	292.0	286.5	243.7	210.7	190.6	186.3
42.5°	1521.0	1091.4	229.5	224.8	277.9	303.0	264.5	221.7	172.1	160.7	159.2
45°	1584.3	1089.1	198.5	222.1	283.8	309.3	258.6	190.2	153.7	148.6	149.0
47.5°	1616.1	1063.1	181.6	215.8	286.1	303.0	244.1	177.3	141.1	146.6	151.3
50°	1599.2	995.9	165.9	203.6	281.0	294.8	220.9	167.4	134.8	157.6	168.2
52.5°	1578.8	913.4	148.6	184.7	268.8	283.4	211.8	164.7	130.9	152.1	160.0
55°	*1605.9*	*861.1*	*120.3*	*155.6*	*244.9*	*256.6*	*204.8*	*164.3*	*121.8*	*118.3*	*117.1*
57.5°	1567.8	757.0	86.1	112.0	187.9	203.2	199.7	161.5	108.1	107.7	109.3
60°	1211.7	461.8	59.0	71.1	115.2	129.7	181.2	154.5	93.1	85.7	86.1
62.5°	688.6	196.5	40.5	44.0	59.0	70.0	138.3	140.3	86.1	81.7	86.1
65°	239.7	70.4	31.4	29.5	32.6	37.3	79.4	108.5	78.2	70.7	71.5
67.5°	49.5	35.0	27.9	24.4	24.4	24.4	40.5	67.6	64.5	56.2	57.0
70°	31.4	29.9	24.4	20.8	20.0	18.5	23.2	37.3	44.4	40.9	41.3
72.5°	23.2	22.8	19.3	16.9	14.9	13.4	14.5	18.5	22.8	23.6	24.0
75°	14.1	14.5	12.6	10.6	9.4	8.3	8.6	8.6	8.6	7.9	8.6
77.5°	4.3	4.7	3.9	3.1	2.8	2.8	2.8	2.4	2.0	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.0	0.0
82.5°	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.0	0.0	0.0
85°	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	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

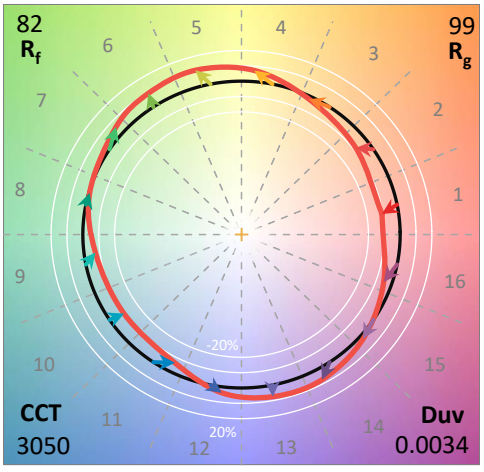
Test Information

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

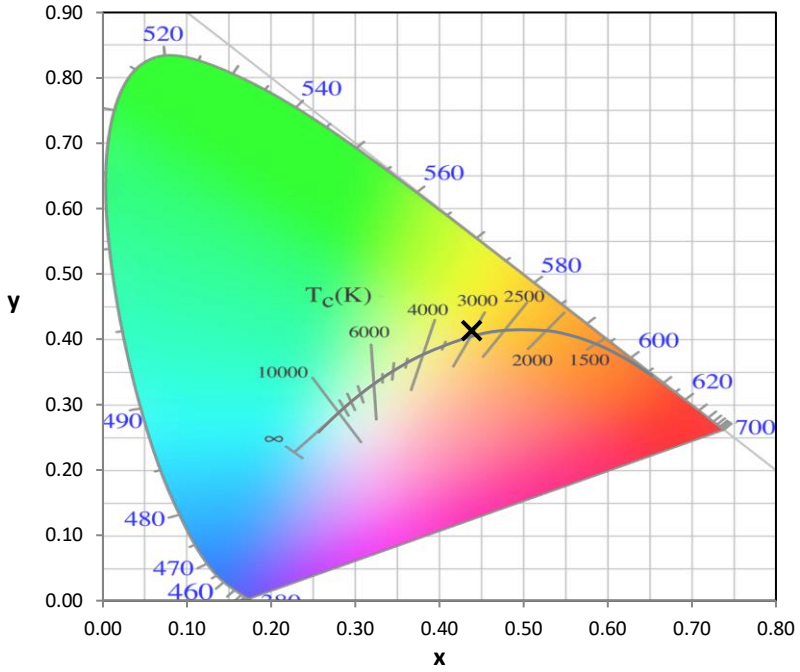
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

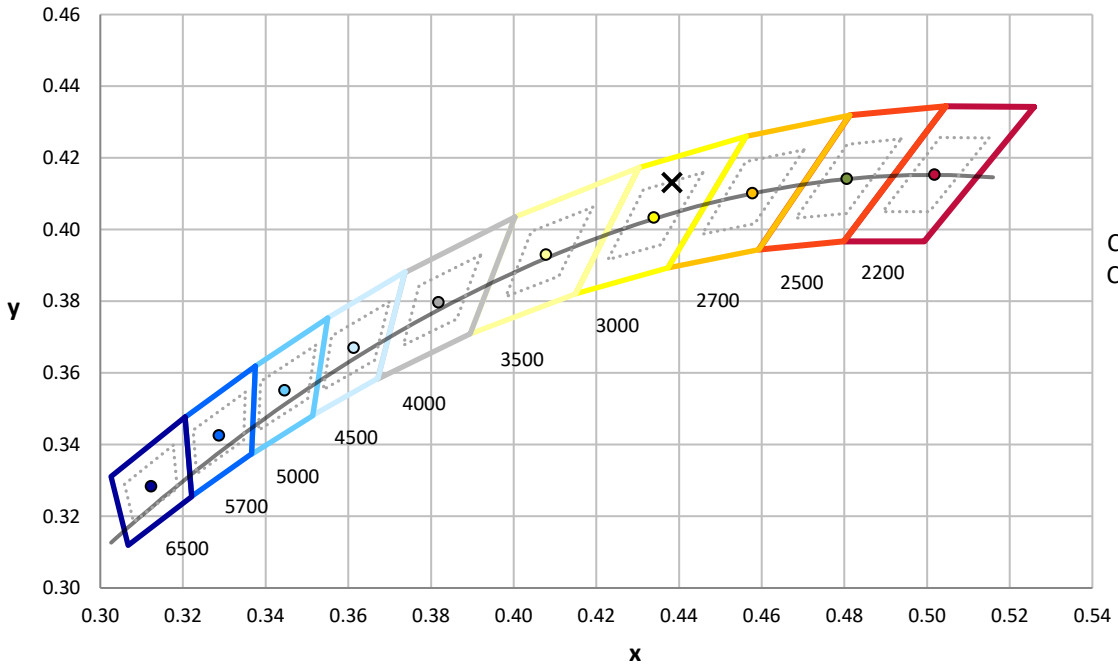
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

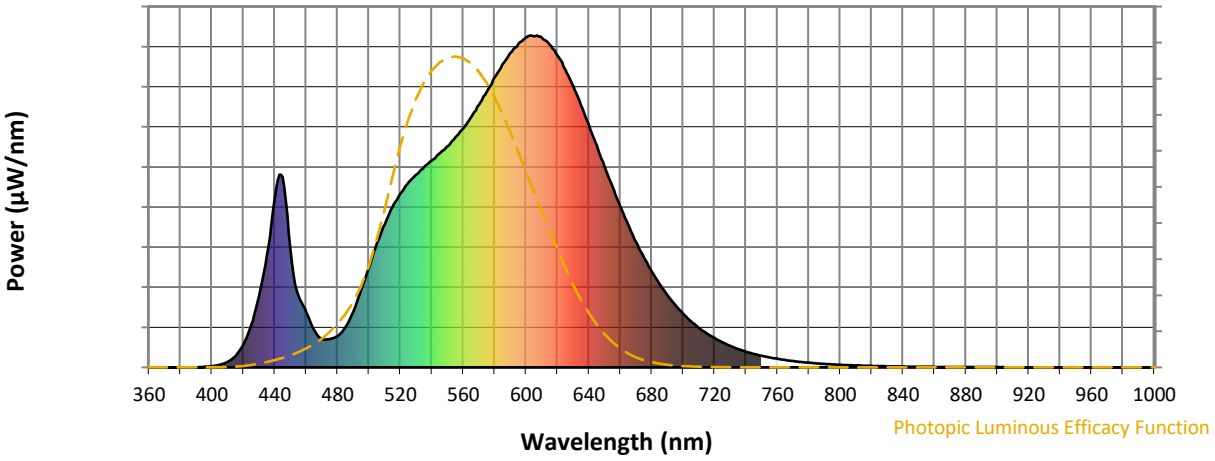


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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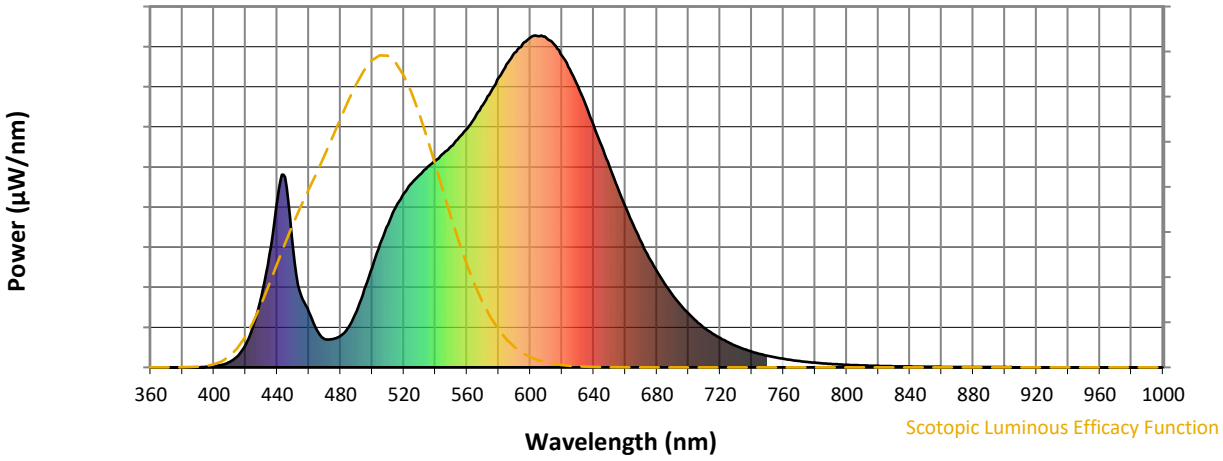
Scotopic Flux vs. Wavelength



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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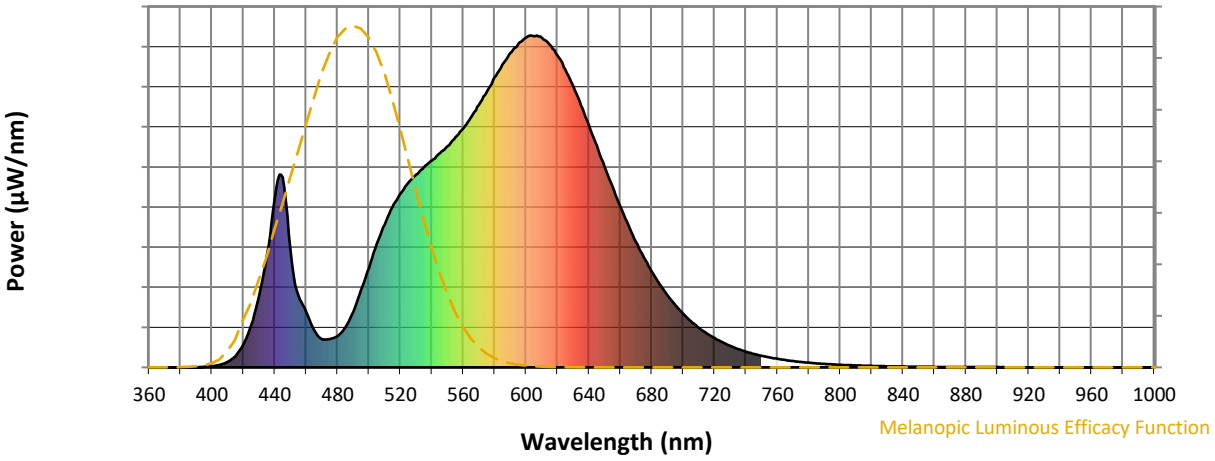
Melanopic Flux vs. Wavelength



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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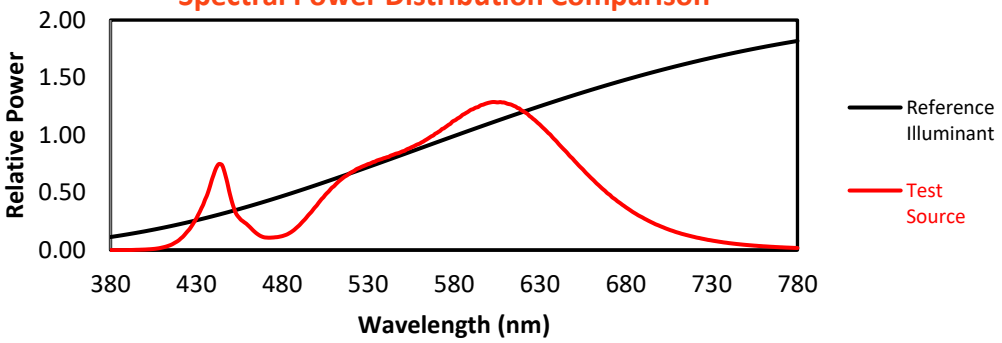
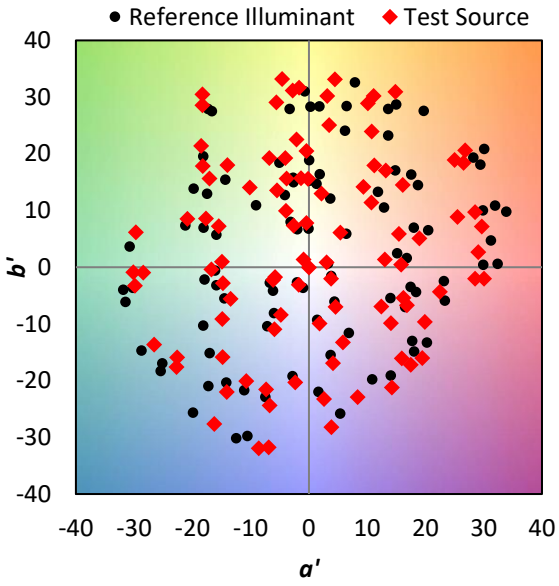
Summary

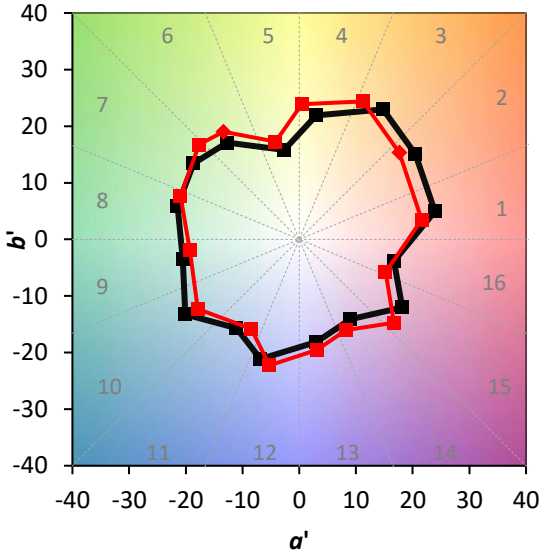
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

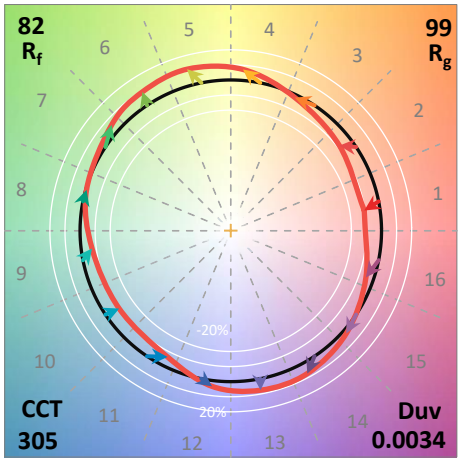
Spectral Power Distribution Comparison

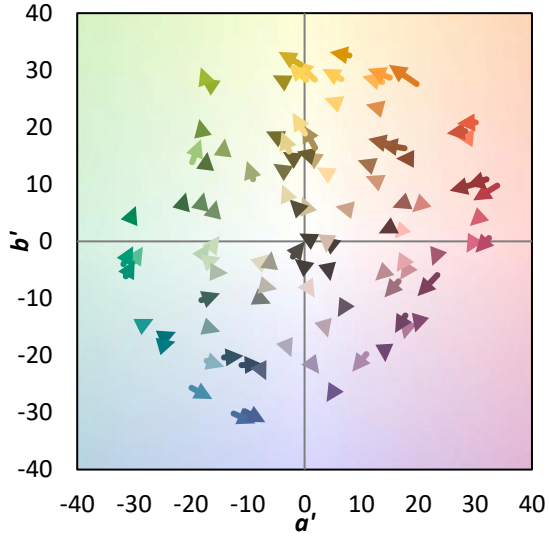


Color Vector Graphics









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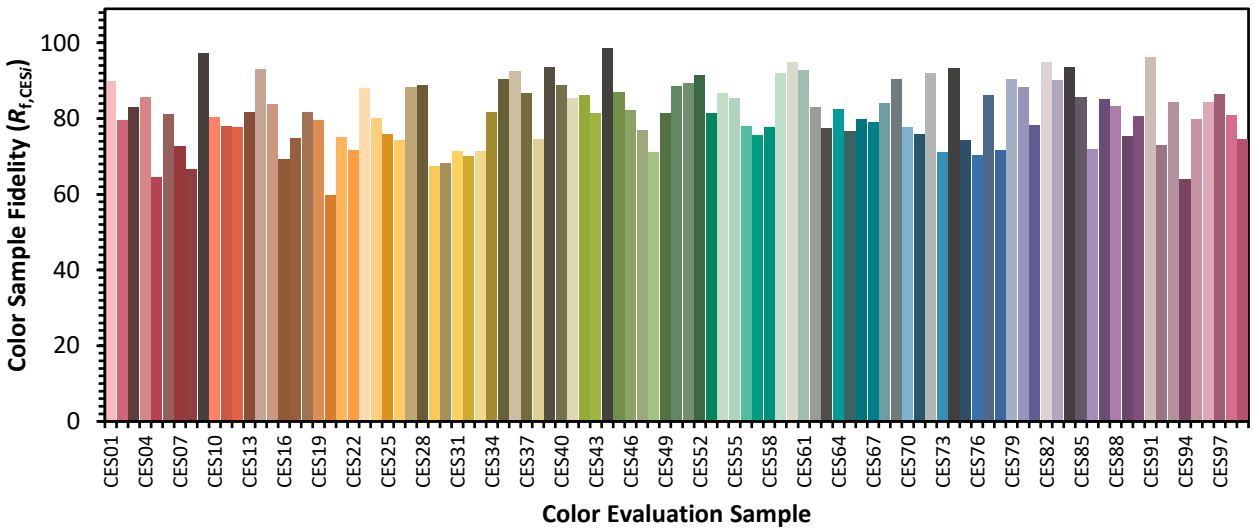
Individual Sample Fidelity Index ($R_{f,i}$)

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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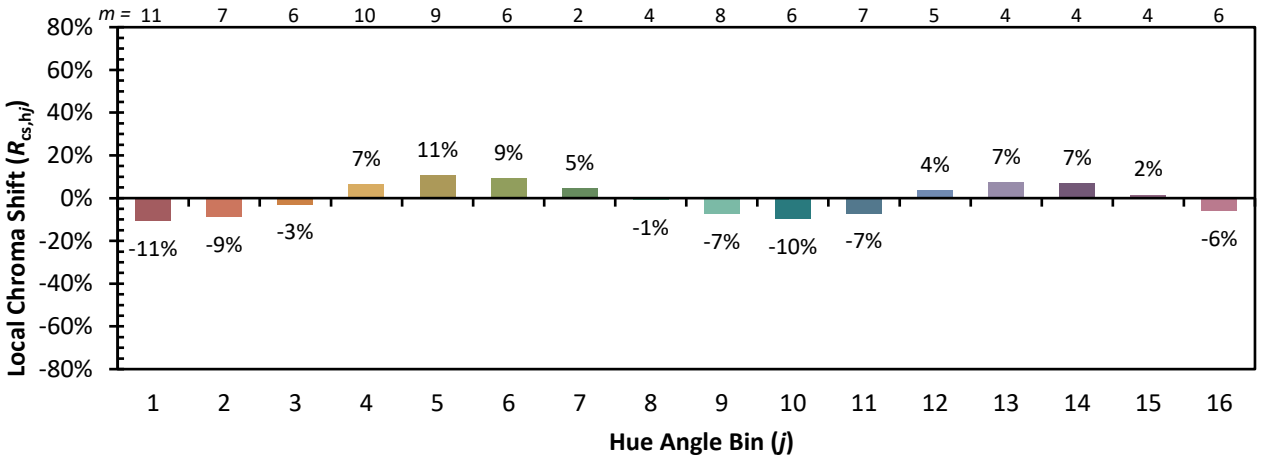
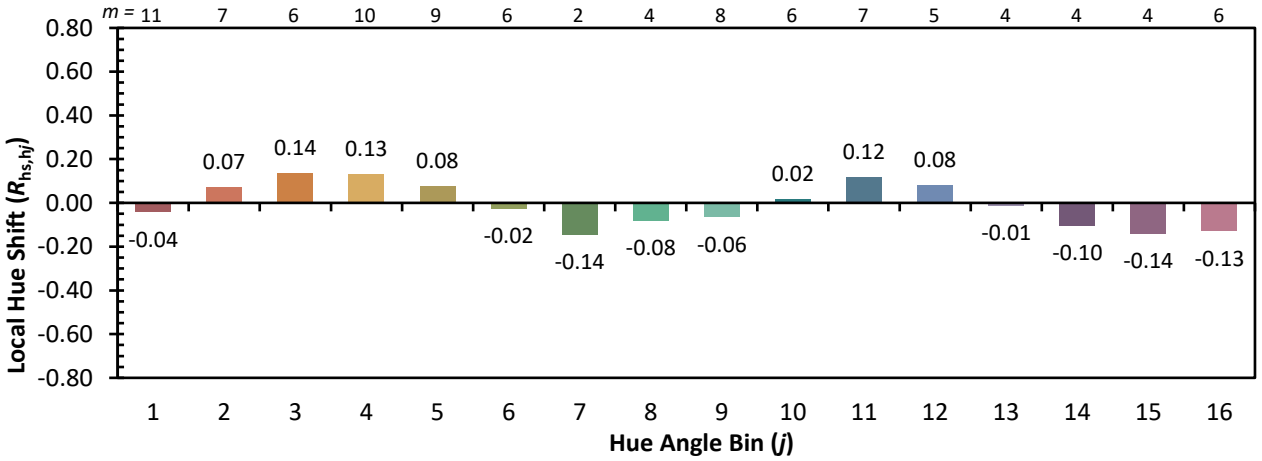
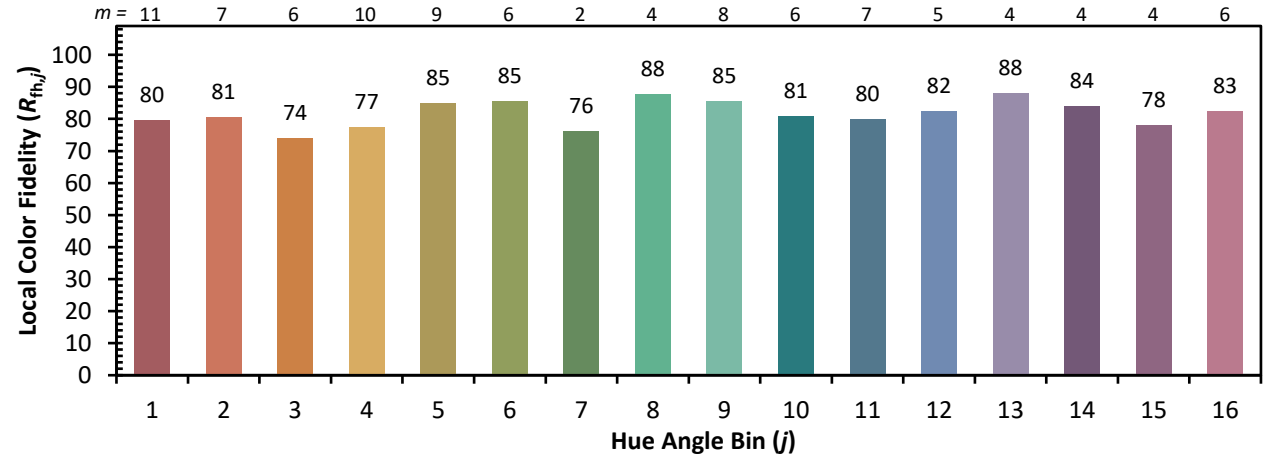
Color Rendition by Hue-Angle Bin







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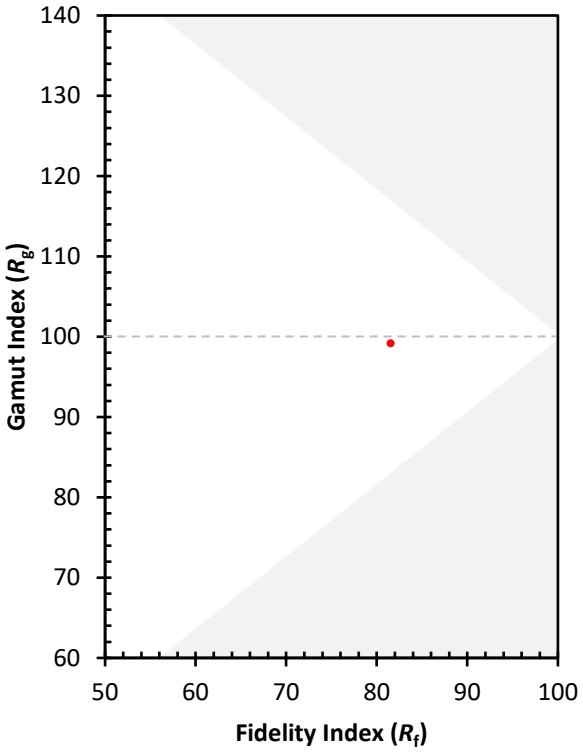
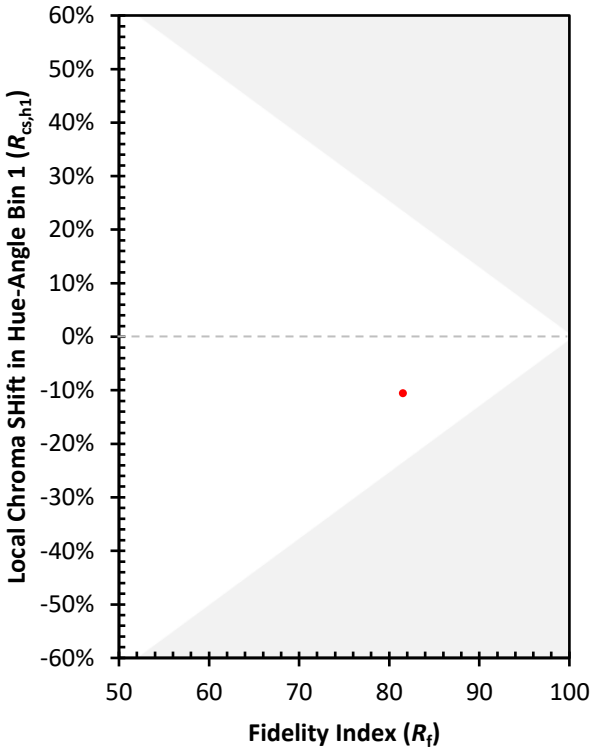
Measure Comparisons





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