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: P632057

Luminaire Tested: GWS-SA2B-830-U-T2R-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:	P632057
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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:	3675 lumens
Efficiency:	N/A
Efficacy:	79.2 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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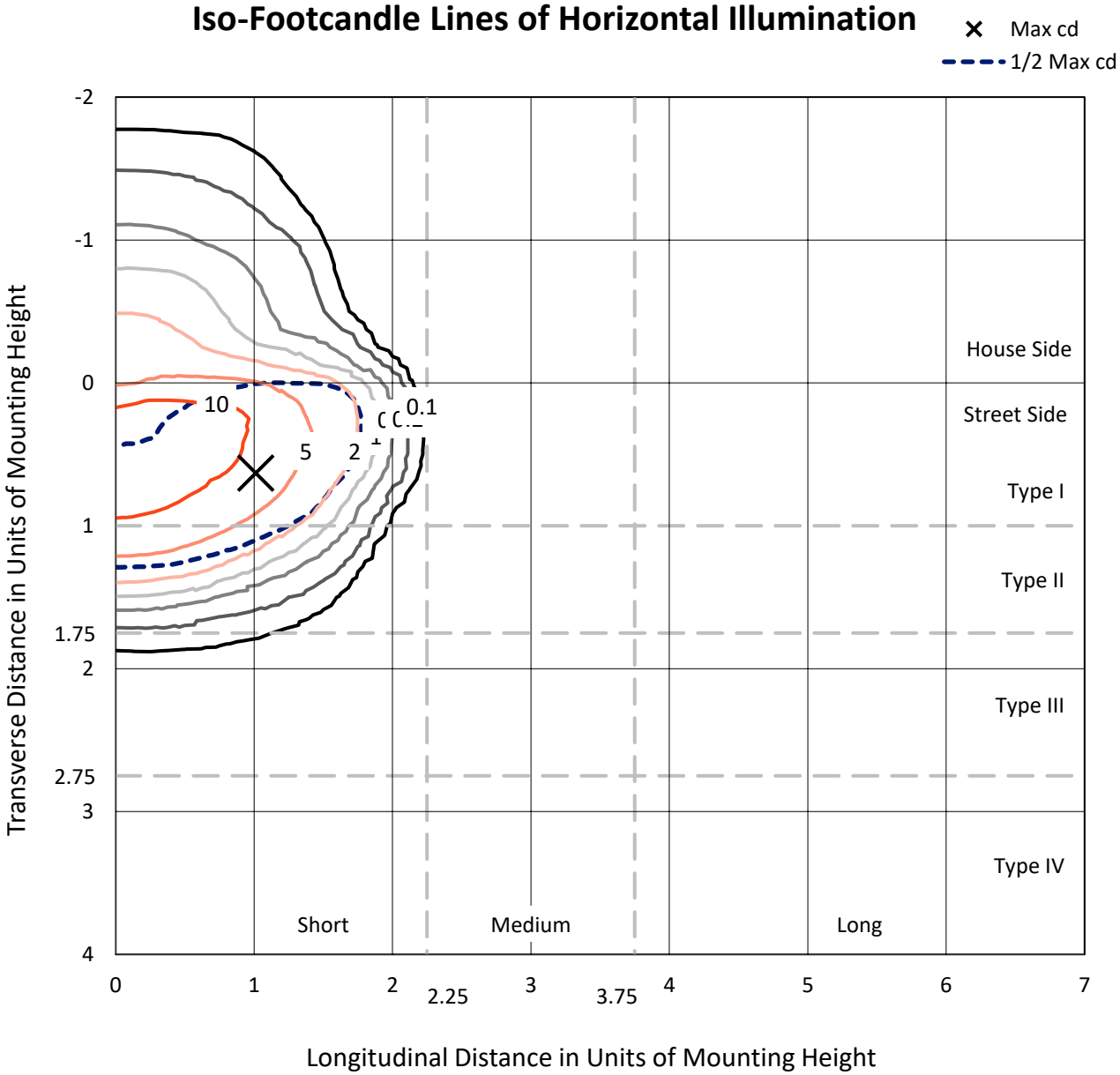
REPORT NUMBER: P632057
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Short - N/A

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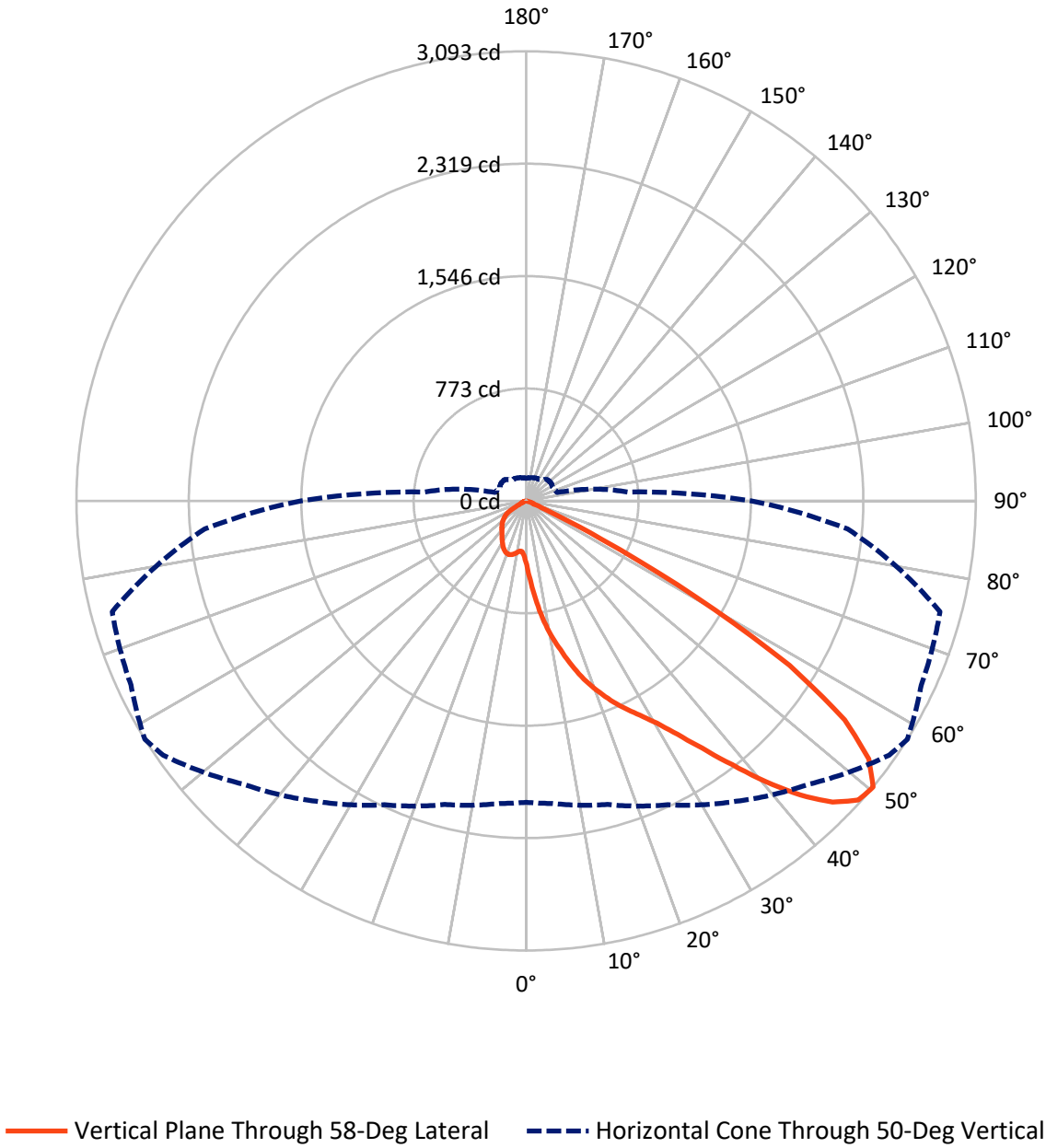
Luminous Intensity Polar Plot



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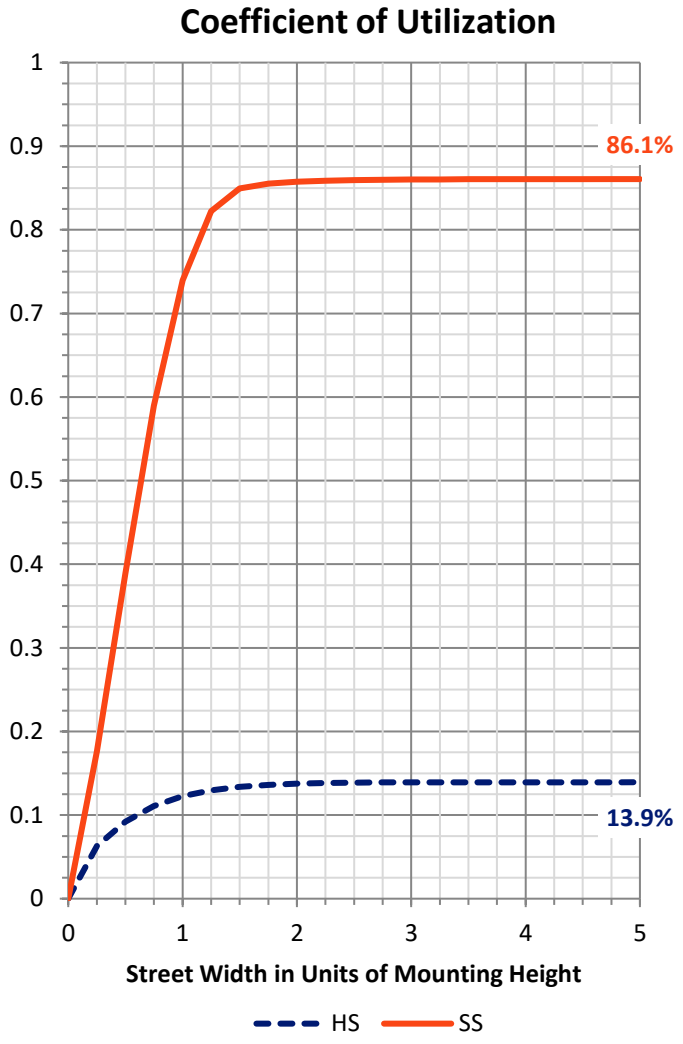
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.7	0.0	514.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3160.3	0.0	3160.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	3675.0	0.0	3675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.5
10°-20°	215.3	5.9
20°-30°	435.6	11.9
30°-40°	770.7	21.0
40°-50°	1123.5	30.6
50°-60°	900.5	24.5
60°-70°	162.2	4.4
70°-80°	12.8	0.3
80°-90°	0.0	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°	3675.0	100.0
0°-180°	3675.0	100.0



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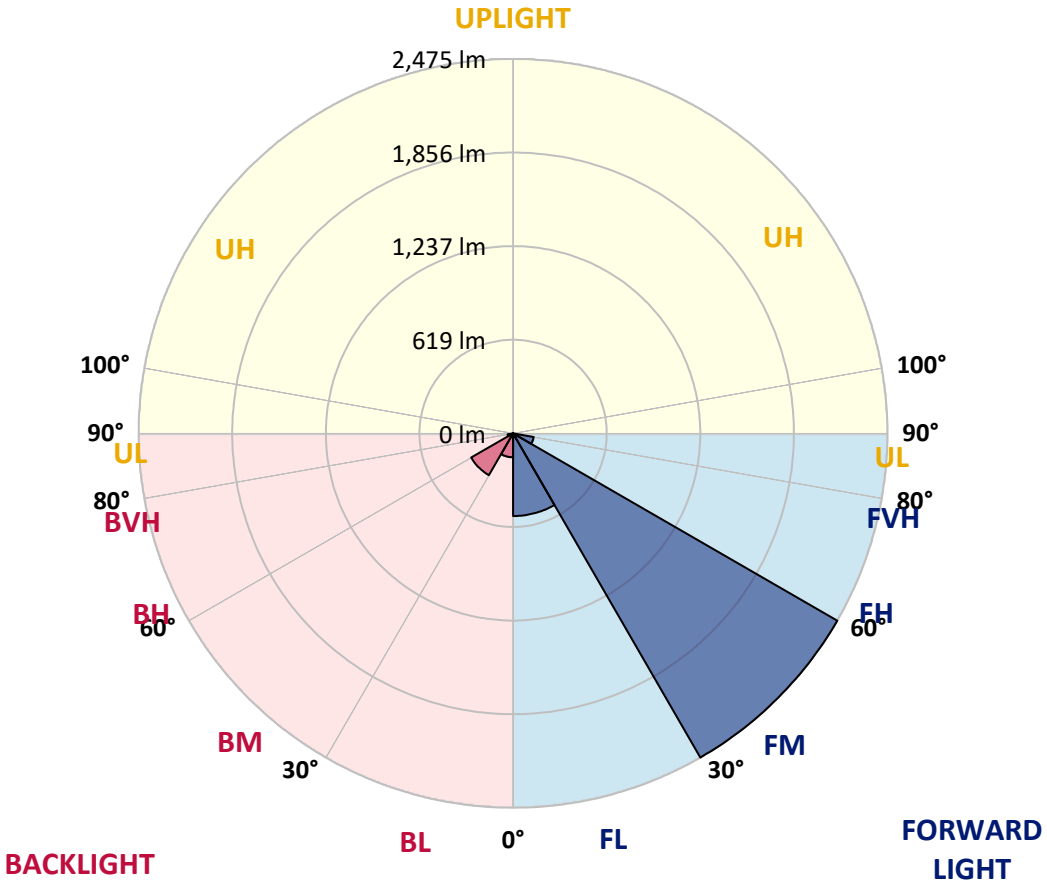
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	546.8	14.9			
FM	(30°-60°)	2475.0	67.3			
FH	(60°-80°)	138.4	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	158.5	4.3	B1/500		
BM	(30°-60°)	319.7	8.7	B1/1000		
BH	(60°-80°)	36.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.0	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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Scaled Data Report

REPORT NUMBER: P632057
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	*439.0*	439.0	439.0	439.0
2.5°	649.6	639.4	633.5	628.8	608.0	574.9	553.3	*541.9*	523.1	491.2	463.7
5°	847.7	840.2	826.5	817.0	790.3	743.5	695.2	*675.9*	633.1	561.2	496.7
7.5°	978.9	973.4	968.3	955.8	930.6	888.2	834.7	*814.7*	748.7	646.5	540.8
10°	1079.9	1075.6	1069.7	1069.3	1049.7	1011.6	959.3	*938.5*	866.9	739.2	592.6
12.5°	1168.8	1165.2	1164.0	1175.0	1162.5	1134.2	1077.6	*1051.6*	975.8	833.9	650.0
15°	1229.7	1228.9	1234.0	1255.6	1262.7	1249.7	1202.2	*1174.3*	1087.0	929.0	713.3
17.5°	1257.6	1259.9	1269.8	1307.1	1338.5	1349.5	1313.0	*1289.4*	1197.4	1025.3	780.9
20°	1305.1	1304.3	1310.2	1345.6	1384.1	1423.4	1412.4	*1392.4*	1309.1	1127.1	855.9
22.5°	1439.1	1427.7	1415.2	1420.7	1434.4	1480.4	1500.8	*1490.6*	1424.2	1231.6	933.4
25°	1645.1	1633.3	1592.8	1553.5	1527.6	1548.4	1576.3	*1581.4*	1538.6	1338.9	1014.3
27.5°	1863.6	1853.0	1807.4	1748.4	1674.1	1638.0	1658.8	*1669.0*	1651.0	1466.6	1100.4
30°	2068.3	2054.2	2004.3	1931.2	1845.1	1789.7	1766.1	*1773.2*	1783.8	1617.9	1201.4
32.5°	2246.0	2235.3	2175.6	2098.6	2015.7	1957.9	1902.9	*1914.7*	1940.6	1803.0	1330.7
35°	2396.5	2391.0	2327.7	2251.1	2163.4	2133.9	2086.8	*2089.1*	2115.1	2026.7	1488.3
37.5°	2527.3	2517.9	2460.5	2389.4	2319.8	2315.1	2302.1	*2303.3*	2316.7	2287.2	1669.4
40°	2609.9	2601.2	2560.3	2516.3	2466.8	2467.6	2534.8	*2539.9*	2524.6	2543.1	1860.8
42.5°	2640.9	2634.6	2612.6	2613.0	2607.9	2631.1	2757.2	*2766.7*	2711.6	2743.9	2024.3
45°	2587.1	2584.3	2585.9	2642.5	2703.8	2775.3	2939.2	*2955.7*	2877.9	2877.1	2152.0
47.5°	2413.4	2407.9	2453.8	2550.1	2692.0	2831.1	3049.2	*3074.8*	2994.2	2953.3	2232.2
50°	*2073.0*	*2088.8*	*2161.5*	*2306.1*	*2521.8*	*2754.5*	*3048.0*	*3092.5*	*2998.5*	*2946.7*	*2218.8*
52.5°	1501.6	1498.5	1657.6	1856.5	2119.0	2509.3	2886.1	*2951.0*	2893.6	2881.0	2189.0
55°	817.0	845.7	953.0	1216.3	1544.1	2045.1	2516.3	*2657.8*	2724.2	2857.1	2242.8
57.5°	300.2	312.8	380.0	566.3	817.4	1271.7	1922.1	*2135.5*	2340.7	2790.2	2233.8
60°	121.0	123.4	150.1	208.3	343.5	647.3	1153.0	*1342.5*	1535.8	2135.9	1714.2
62.5°	88.0	91.2	101.8	121.8	173.7	283.0	497.1	*578.1*	631.9	1057.9	844.5
65°	71.1	73.5	82.1	91.2	114.8	152.1	160.3	*154.4*	153.7	273.5	193.7
67.5°	58.9	61.3	67.6	73.9	82.5	75.8	55.0	*57.8*	47.2	46.8	38.1
70°	43.2	46.0	52.3	58.9	49.5	20.4	31.8	*47.2*	35.8	29.9	29.1
72.5°	32.6	34.6	40.5	38.5	14.5	7.9	21.2	*34.2*	27.5	22.0	21.6
75°	24.4	25.5	20.4	6.3	1.6	2.0	7.9	*14.1*	15.3	12.6	12.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	*1.2*	1.6	2.0	2.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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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REPORT NUMBER: P632057
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0
2.5°	448.0	431.5	407.9	388.3	373.3	358.8	347.8	336.8	336.4	330.9	329.7
5°	466.9	437.0	393.8	362.7	343.9	332.5	324.6	320.7	318.7	316.8	316.0
7.5°	494.0	451.2	391.4	358.4	342.7	335.2	329.7	327.4	326.2	324.6	324.2
10°	527.4	471.6	400.1	366.7	352.9	345.8	339.9	336.4	334.4	331.7	330.9
12.5°	567.5	496.7	413.8	380.4	365.9	356.4	348.6	343.5	340.7	337.2	336.4
15°	610.7	523.9	429.1	393.0	375.7	363.5	353.7	345.8	340.7	336.4	335.2
17.5°	655.5	551.4	442.9	401.6	380.4	365.9	351.7	341.1	334.8	329.3	327.8
20°	705.8	579.7	451.9	403.2	378.8	359.6	343.1	329.7	323.4	316.0	314.4
22.5°	758.5	606.0	455.9	399.7	370.2	347.8	330.1	316.4	307.3	299.5	297.1
25°	809.6	629.6	453.9	389.8	357.2	331.3	313.2	299.1	289.2	281.4	279.4
27.5°	863.8	649.2	446.8	375.3	339.5	313.2	295.9	283.7	274.7	266.1	264.1
30°	924.7	667.3	435.4	357.6	318.7	294.7	281.4	273.1	263.3	254.3	251.5
32.5°	998.2	683.4	418.9	336.4	300.2	278.6	271.2	264.9	253.5	244.0	242.1
35°	1082.3	696.8	398.1	314.4	282.2	268.4	266.8	258.6	243.7	232.7	230.3
37.5°	1179.8	709.7	373.3	292.8	268.8	263.7	264.1	249.9	231.9	218.5	216.9
40°	1284.7	722.7	345.8	273.9	256.6	260.9	257.4	237.4	207.9	194.9	193.4
42.5°	1393.9	736.9	317.9	256.2	246.4	250.3	245.2	212.2	191.0	184.3	183.5
45°	1492.6	753.8	287.7	238.5	236.2	235.0	226.4	192.2	183.1	178.4	178.0
47.5°	1563.7	751.0	255.4	221.6	225.2	221.3	194.9	182.7	175.3	169.0	167.4
50°	*1550.7*	*703.1*	*222.0*	*202.8*	*211.0*	*207.5*	*175.3*	*171.7*	*165.1*	*158.4*	*156.0*
52.5°	1517.7	637.8	193.0	182.7	195.7	187.5	161.9	158.4	152.5	143.8	141.1
55°	1535.4	576.5	170.2	166.6	180.0	155.2	147.0	141.5	135.2	125.8	124.6
57.5°	1478.4	470.4	136.8	139.1	159.2	132.4	128.9	120.3	109.6	103.4	102.6
60°	1023.4	252.7	85.7	88.4	115.1	111.2	115.5	107.7	94.7	88.8	87.6
62.5°	470.0	101.4	46.8	44.8	60.5	75.5	99.0	98.2	82.1	72.7	71.9
65°	114.0	46.4	33.4	31.4	34.2	45.2	64.5	77.4	66.4	55.4	54.2
67.5°	36.9	37.7	30.7	28.7	30.3	33.8	38.5	42.8	42.4	38.9	38.1
70°	29.5	34.2	28.3	25.9	25.9	27.1	25.9	20.8	18.1	19.6	20.4
72.5°	22.0	25.9	22.4	20.0	19.3	18.9	16.1	11.8	8.3	7.5	7.1
75°	13.0	14.5	13.8	11.8	11.0	9.8	7.9	5.1	2.8	2.0	1.2
77.5°	2.4	2.8	3.1	2.4	2.0	1.6	1.2	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

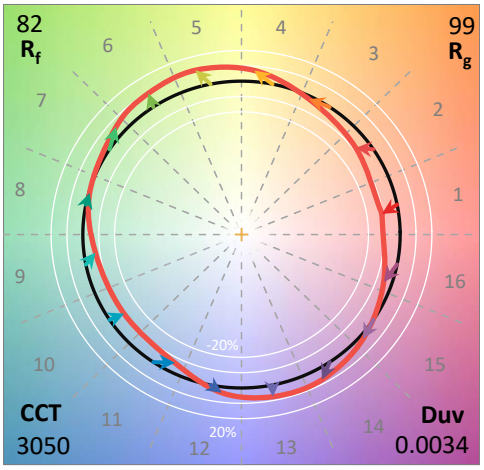
Test Information

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

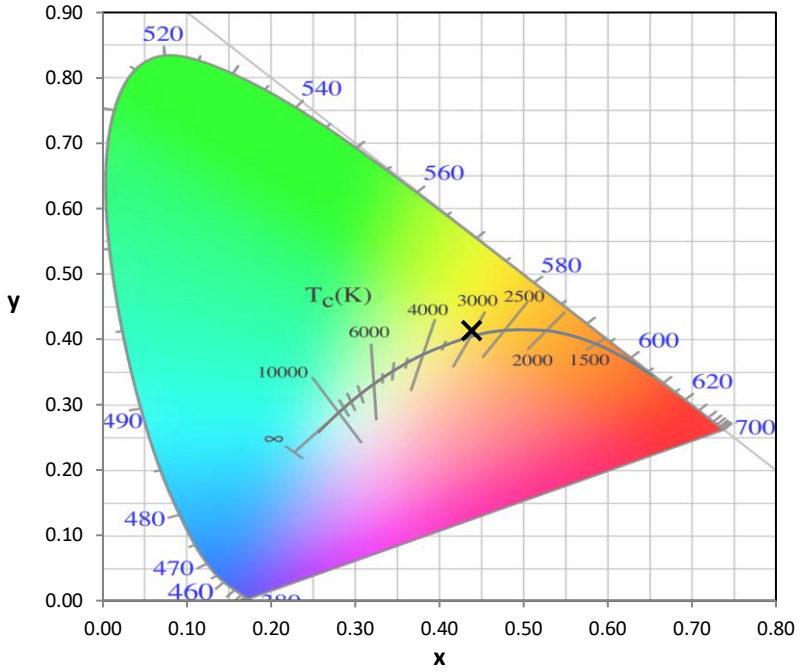
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

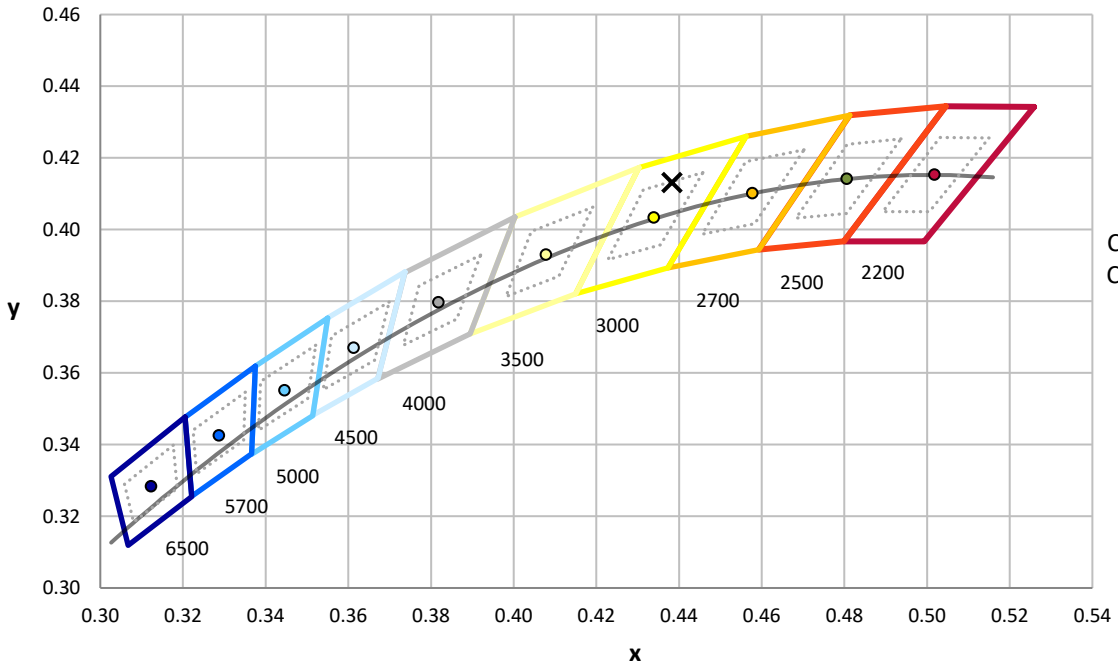
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

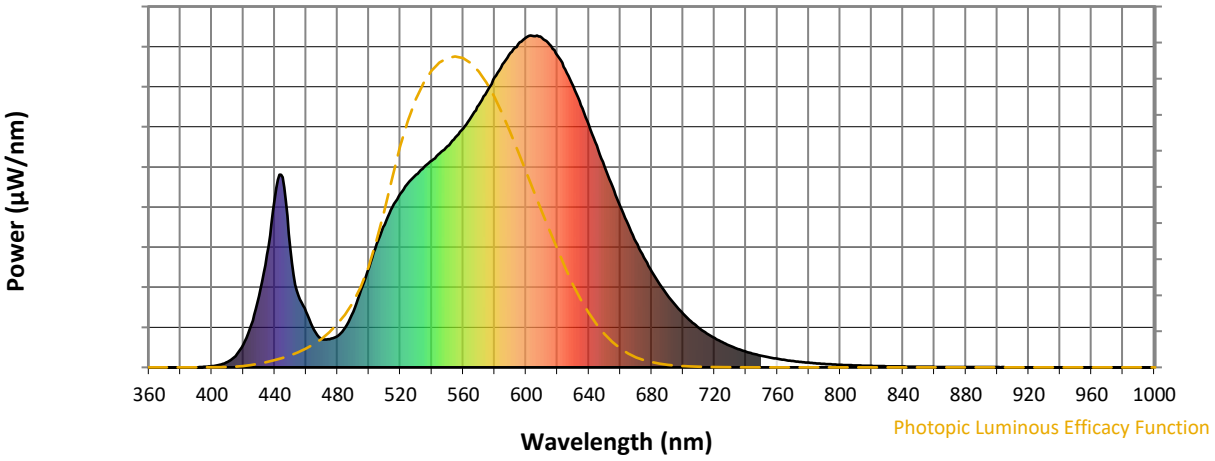


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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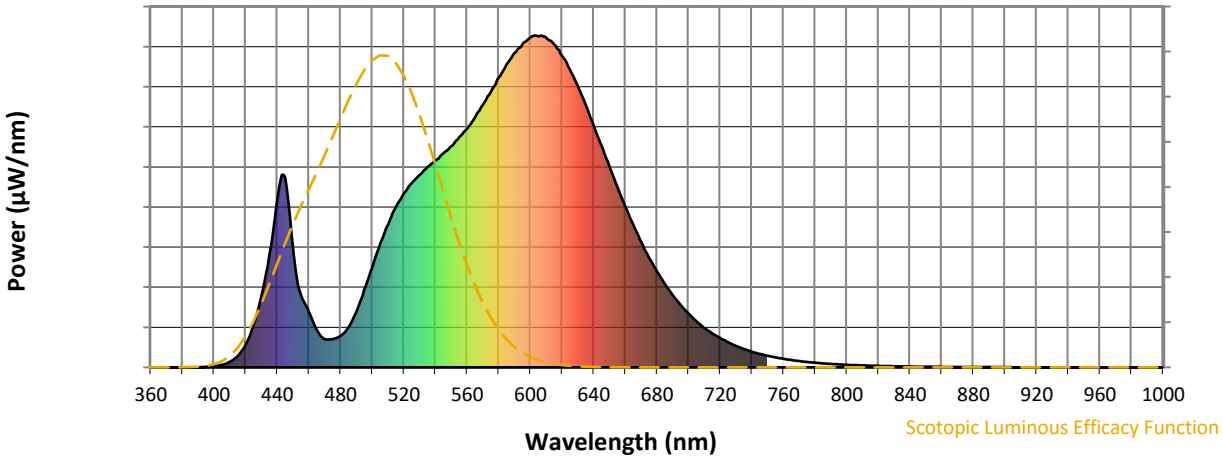
Scotopic Flux vs. Wavelength



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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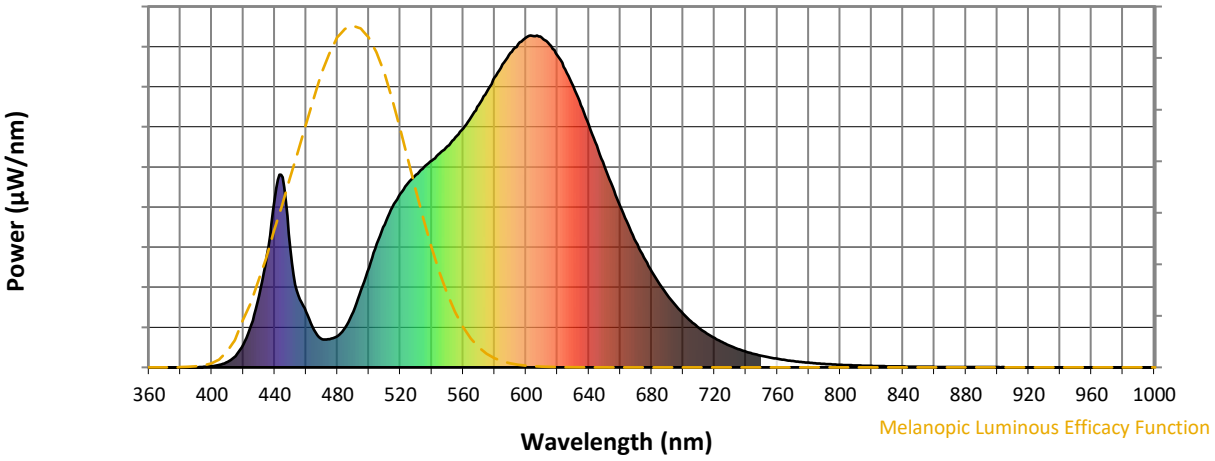
Melanopic Flux vs. Wavelength



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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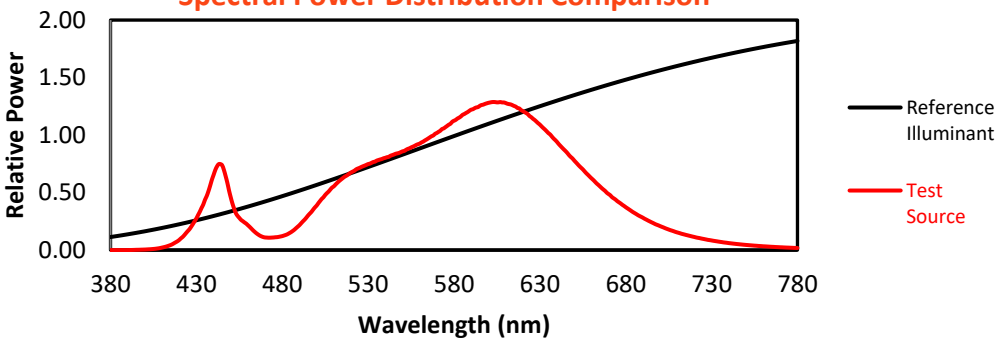
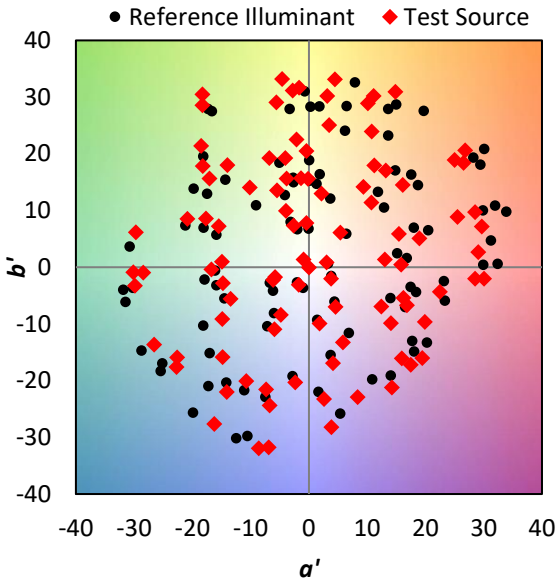
Summary

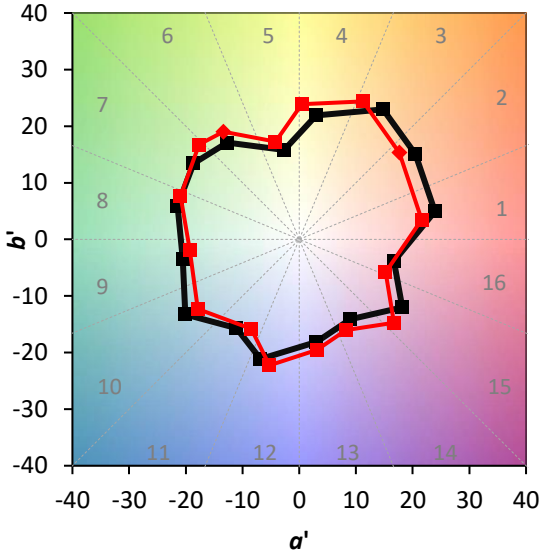
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

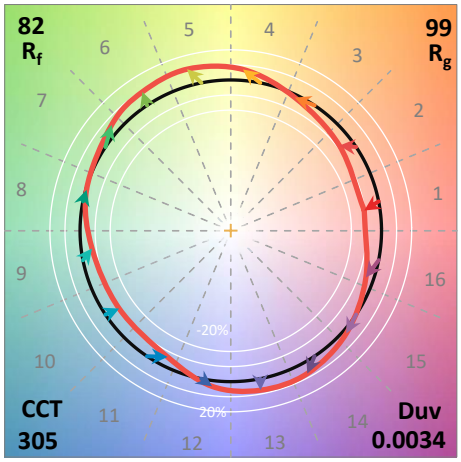
Spectral Power Distribution Comparison

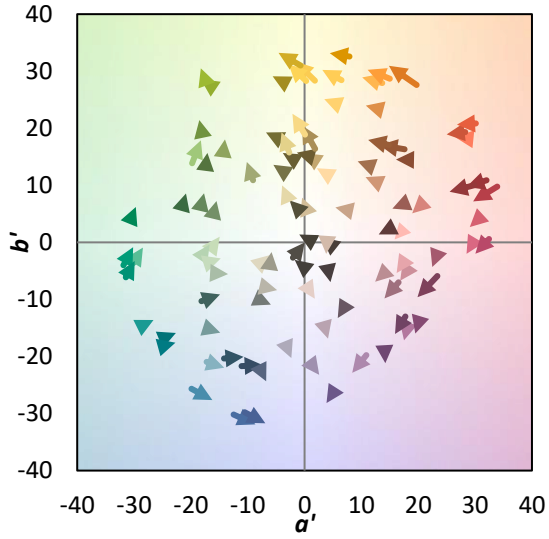


Color Vector Graphics









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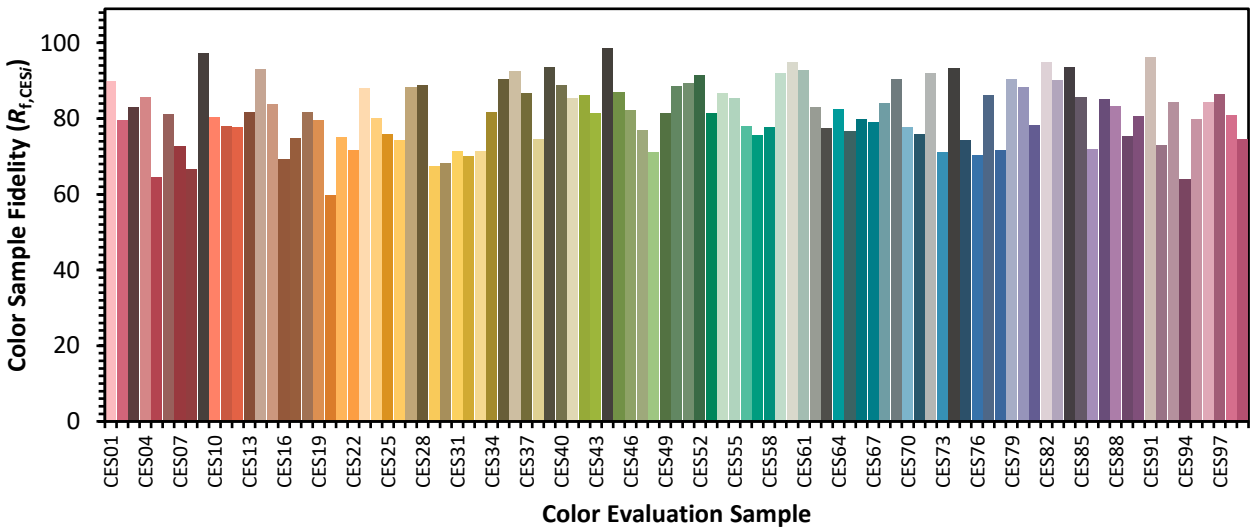
Individual Sample Fidelity Index ($R_{f,i}$)

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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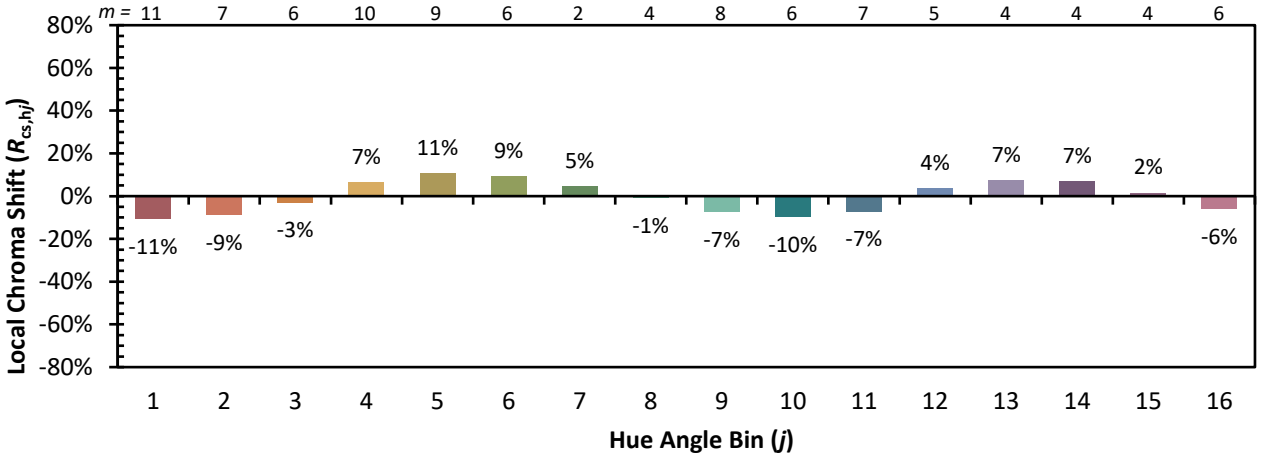
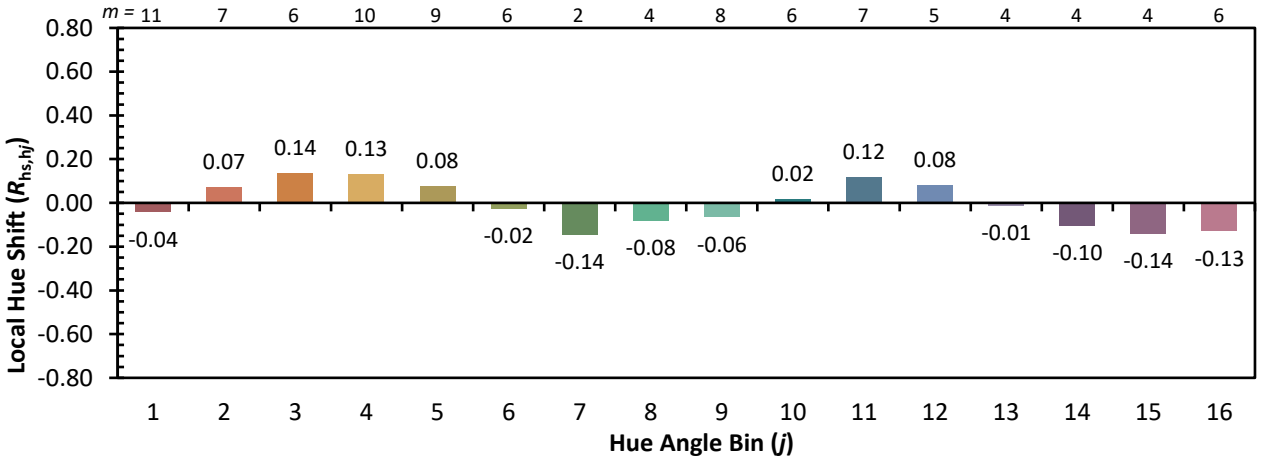
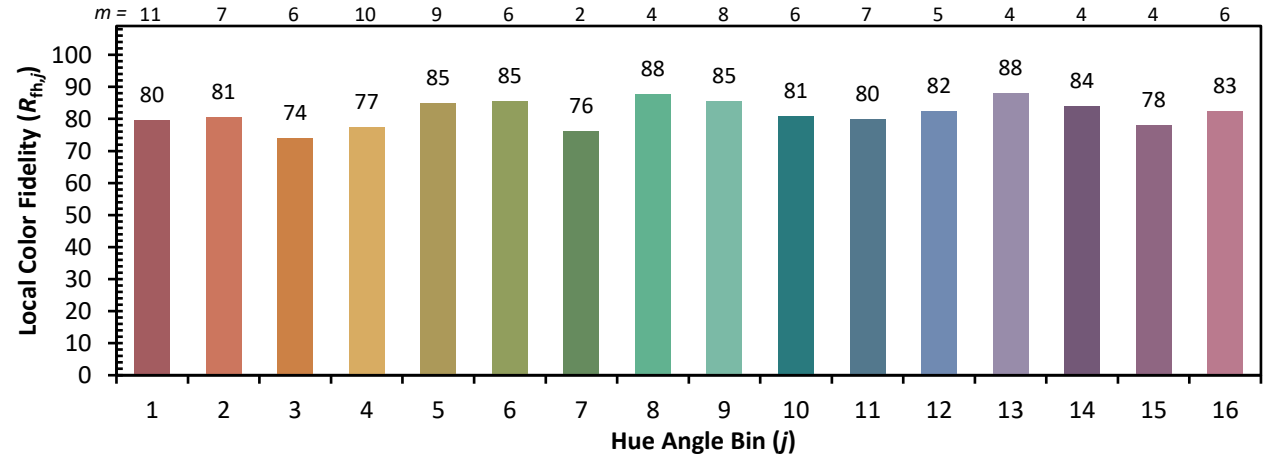
Color Rendition by Hue-Angle Bin







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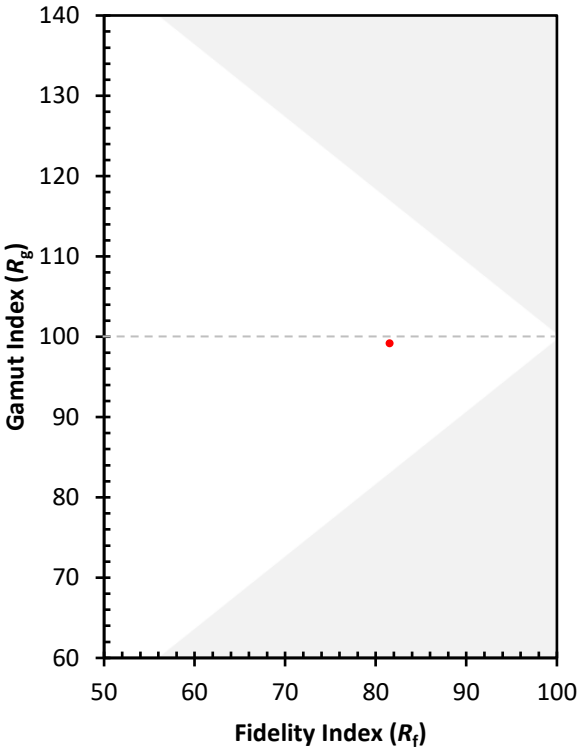
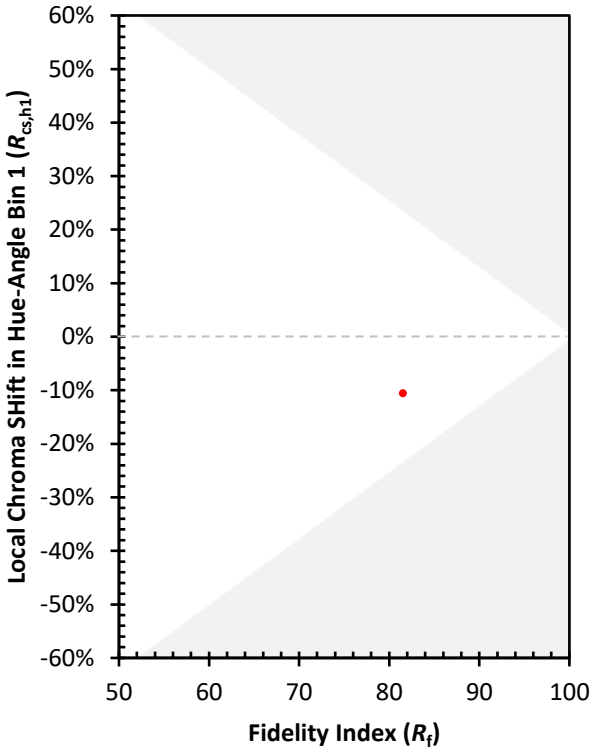
Measure Comparisons





(END OF REPORT)