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: P634504

Luminaire Tested: GWS-SA3B-830-U-AFL-W-HSS

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:	P634504
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-AFL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6929.2 lumens
Efficiency:	N/A
Efficacy:	101.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

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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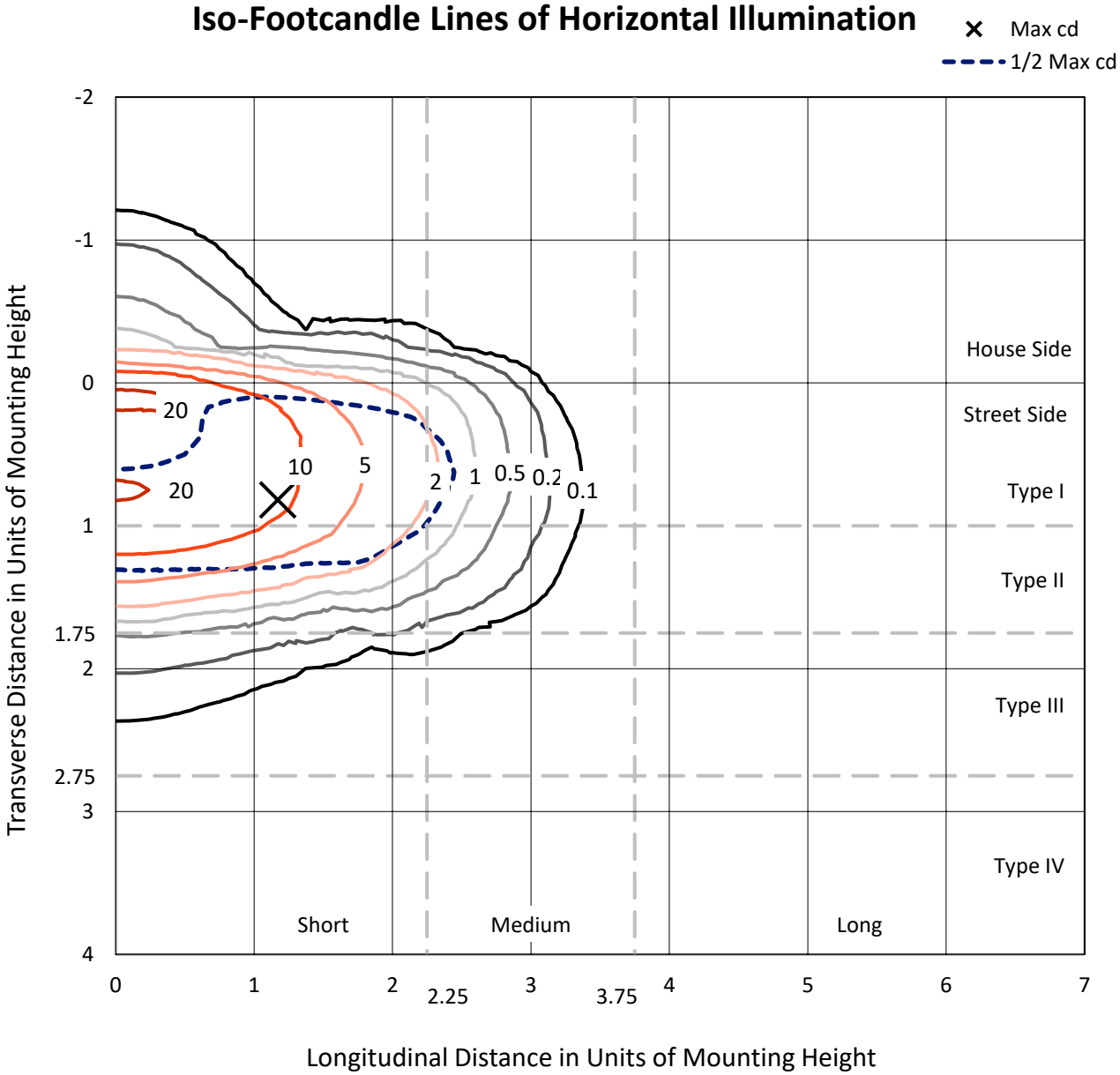
Scaled Data Report

REPORT NUMBER: P634504
CATALOG NUMBER: GWS-SA3B-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
Type II - Short - N/A

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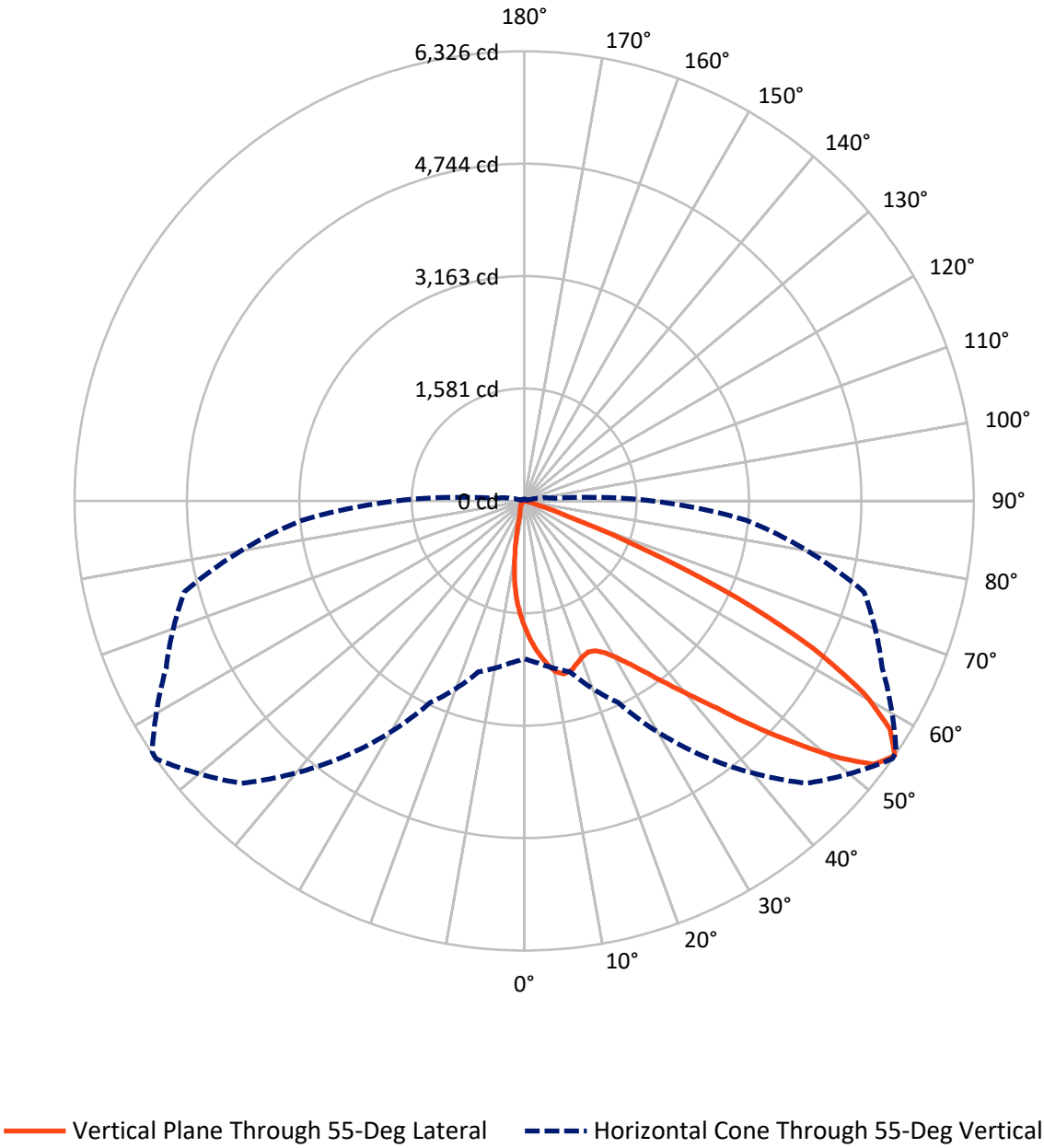
Luminous Intensity Polar Plot



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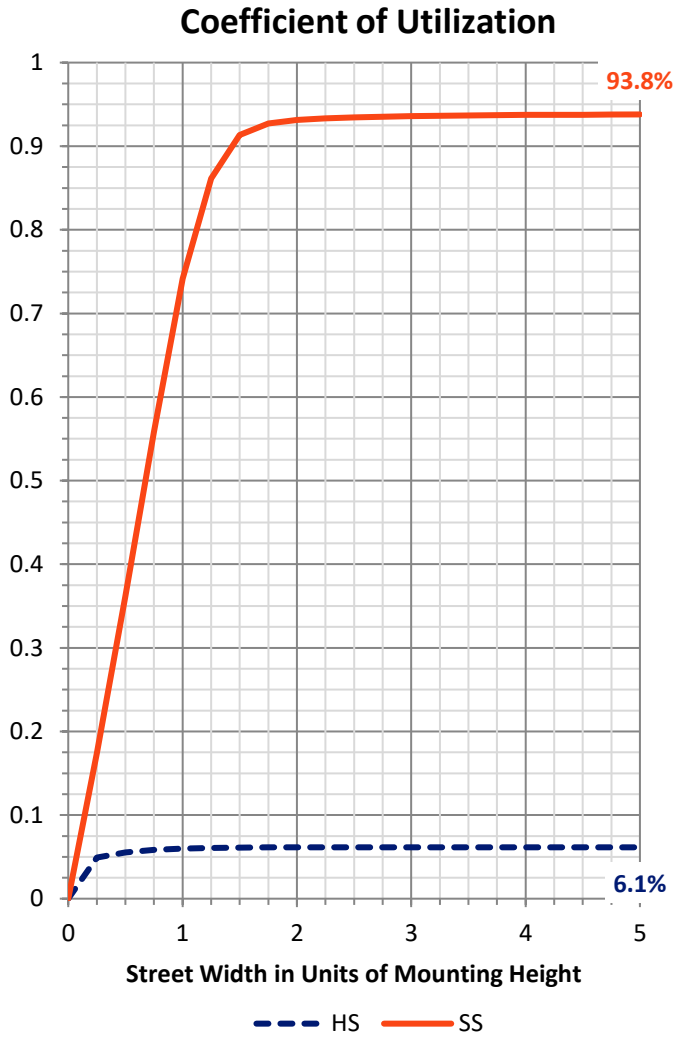
REPORT NUMBER: P634504
CATALOG NUMBER: GWS-SA3B-830-U-AFL-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.6	0.0	427.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6501.6	0.0	6501.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	6929.2	0.0	6929.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.3
10°-20°	381.4	5.5
20°-30°	635.2	9.2
30°-40°	1082.4	15.6
40°-50°	1766.9	25.5
50°-60°	1849.8	26.7
60°-70°	933.0	13.5
70°-80°	117.9	1.7
80°-90°	4.5	0.1
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°	6929.2	100.0
0°-180°	6929.2	100.0



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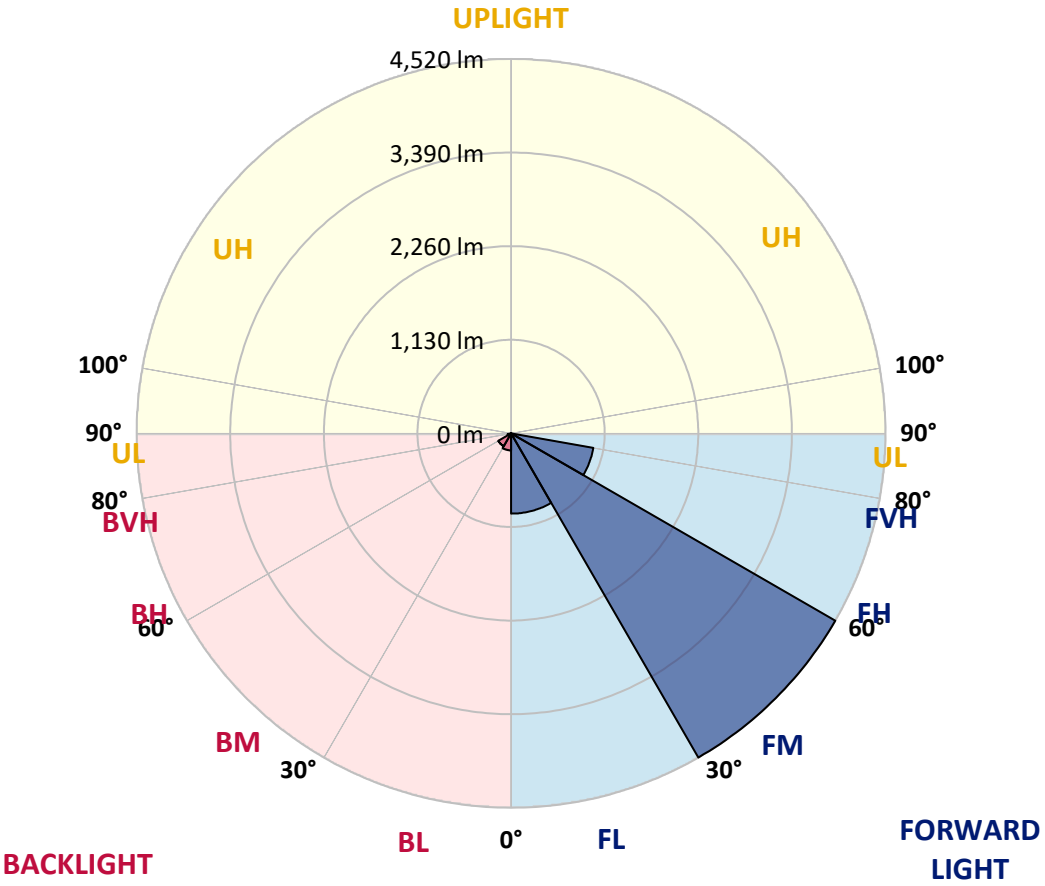
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	969.3	14.0			
FM	(30°-60°)	4520.3	65.2			
FH	(60°-80°)	1008.0	14.5			G1/1800
FVH	(80°-90°)	4.1	0.1			G0/10
BL	(0°-30°)	205.5	3.0	B1/500		
BM	(30°-60°)	178.8	2.6	B0/220		
BH	(60°-80°)	42.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P634504
CATALOG NUMBER: GWS-SA3B-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	2086.9	2076.8	2092.2	2074.4	2044.2	2018.7	1985.6	1973.7	1920.4	1870.1	1821.5
5°	2340.4	2343.4	2338.6	2313.7	2271.1	2223.7	2156.8	2142.0	2049.0	1953.0	1849.3
7.5°	2403.2	2401.4	2411.5	2421.0	2413.9	2390.2	2317.3	2302.5	2187.0	2043.0	1892.0
10°	2209.5	2210.7	2231.4	2295.4	2374.8	2457.1	2445.8	2437.5	2324.4	2144.9	1939.4
12.5°	1935.8	1946.5	1968.4	2059.6	2194.1	2381.3	2497.4	2505.7	2450.6	2256.9	1995.1
15°	1817.3	1819.7	1837.5	1892.6	1992.7	2223.7	2475.5	2498.6	2556.0	2369.4	2055.5
17.5°	1814.4	1817.3	1825.0	1849.3	1914.5	2099.9	2405.0	2445.2	2635.4	2490.3	2127.7
20°	1925.7	1924.0	1918.6	1905.6	1934.0	2059.0	2339.8	2384.2	2678.6	2608.1	2200.6
22.5°	2127.7	2125.4	2101.7	2047.8	2024.7	2096.3	2307.8	2348.1	2704.7	2713.0	2260.4
25°	2360.5	2377.1	2332.7	2251.0	2194.1	2191.7	2336.3	2364.7	2727.2	2806.0	2301.3
27.5°	2615.8	2621.2	2583.3	2491.4	2409.1	2344.5	2418.6	2439.9	2752.1	2888.9	2324.4
30°	2896.0	2894.3	2851.0	2744.4	2644.3	2551.3	2557.2	2565.5	2810.1	2983.7	2349.9
32.5°	3246.1	3253.8	3176.8	3031.7	2911.4	2782.9	2738.5	2739.6	2915.0	3105.7	2388.4
35°	3721.8	3702.8	3600.9	3394.2	3189.2	3050.6	2974.8	2968.3	3076.7	3269.8	2455.3
37.5°	4174.9	4176.7	4070.1	3842.6	3583.8	3365.2	3258.0	3240.2	3304.2	3497.3	2566.7
40°	4489.5	4495.4	4451.0	4331.9	4057.6	3748.4	3590.9	3572.5	3599.2	3785.2	2712.4
42.5°	4655.9	4672.5	4684.9	4712.8	4504.9	4227.1	3984.8	3983.0	3955.2	4113.3	2881.2
45°	4662.4	4687.3	4763.1	4953.3	4977.0	4773.2	4509.6	4469.9	4362.7	4464.6	3032.3
47.5°	4404.8	4462.2	4623.3	5000.1	5248.9	5316.4	5055.2	5030.9	4730.0	4742.4	3145.4
50°	3804.1	3863.9	4160.7	4760.2	5317.6	5747.6	5654.0	5603.7	5036.8	4926.0	3199.9
52.5°	3188.1	3242.6	3444.0	4189.1	5032.7	5883.3	6158.7	6098.9	5312.2	4990.0	3177.4
55°	2218.4	2291.2	2487.9	3131.2	4376.3	5619.1	6325.8	6313.3	5558.1	4949.7	3142.4
57.5°	1087.6	1159.8	1355.9	1930.5	3242.0	4905.9	6070.5	6136.2	5705.0	4906.5	3114.0
60°	454.3	484.0	551.5	847.1	1813.8	3707.6	5494.1	5585.3	5614.9	4847.8	3111.1
62.5°	263.6	268.3	275.4	351.3	705.5	2125.4	4557.6	4687.3	5141.6	4770.2	3064.3
65°	199.0	200.8	197.8	215.6	291.4	806.2	3292.9	3469.4	4291.6	4467.0	2879.4
67.5°	163.5	163.5	155.8	159.3	183.0	302.1	1817.9	2064.4	3175.6	3671.4	2377.7
70°	130.3	133.3	129.7	125.0	130.9	167.0	646.9	802.0	1849.3	2168.0	1386.7
72.5°	98.9	98.9	104.8	101.3	97.1	104.8	225.7	253.5	742.2	903.9	500.5
75°	76.4	78.8	82.9	79.4	73.5	62.2	108.4	114.9	223.9	210.3	112.0
77.5°	39.1	39.7	52.7	58.1	54.5	37.9	47.4	52.1	72.9	65.2	41.5
80°	23.7	24.9	29.6	45.6	36.1	20.1	19.5	20.7	34.4	29.6	17.2
82.5°	10.1	10.7	16.6	16.6	14.8	7.7	7.7	7.7	16.6	15.4	7.1
85°	0.0	0.0	3.0	2.4	2.4	3.0	3.0	3.0	4.1	5.9	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.8
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: P634504
CATALOG NUMBER: GWS-SA3B-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	1790.1	1752.2	1701.2	1655.0	1592.8	1557.9	1509.3	1469.6	1435.9	1425.2	1420.5
5°	1790.7	1725.5	1616.5	1507.5	1373.7	1268.2	1159.8	1073.9	1003.5	980.9	975.0
7.5°	1802.5	1706.6	1530.1	1332.2	1108.3	923.5	758.2	610.1	541.4	518.3	513.6
10°	1818.5	1690.6	1429.9	1121.9	800.3	562.7	398.7	303.9	258.9	234.0	237.5
12.5°	1839.3	1677.6	1319.2	894.5	529.6	309.2	219.2	183.6	174.2	169.4	167.0
15°	1867.1	1662.2	1181.7	668.8	324.6	199.0	168.8	159.3	155.8	153.4	152.8
17.5°	1895.5	1644.4	1042.0	470.3	215.6	165.3	151.6	146.9	144.5	142.8	142.2
20°	1925.7	1614.2	877.9	324.0	170.0	148.7	139.8	134.5	131.5	128.5	127.9
22.5°	1938.8	1565.6	720.9	226.9	151.1	136.8	125.6	119.1	115.5	113.1	113.1
25°	1926.3	1486.8	558.6	172.4	137.4	123.8	112.5	105.4	102.5	100.1	100.1
27.5°	1893.2	1385.5	407.5	142.8	122.6	110.2	99.5	93.0	90.6	89.4	89.4
30°	1856.4	1257.6	287.3	122.6	106.0	96.0	87.1	82.9	82.3	81.2	81.2
32.5°	1825.0	1137.9	197.8	107.8	93.6	83.5	77.6	75.8	76.4	75.2	75.8
35°	1807.9	1020.6	146.9	96.0	83.5	74.0	71.1	71.1	71.1	70.5	70.5
37.5°	1815.0	905.1	119.7	87.7	74.6	67.5	64.6	65.8	66.9	66.9	66.9
40°	1850.5	802.6	106.0	80.0	66.9	61.6	59.2	61.0	62.8	64.0	64.0
42.5°	1895.5	719.7	96.0	73.5	61.6	55.7	54.5	56.3	58.1	59.2	59.2
45°	1924.0	636.2	85.9	65.2	56.3	49.2	49.2	51.5	50.9	51.5	51.5
47.5°	1937.0	569.8	75.8	56.3	48.0	42.6	43.2	44.4	43.2	44.4	44.4
50°	1905.0	502.9	66.9	46.8	39.7	37.3	38.5	37.9	37.9	40.3	40.3
52.5°	1846.4	453.2	59.2	39.7	33.8	33.2	34.4	32.0	32.6	32.6	32.0
55°	*1803.1*	*424.7*	*52.7*	*34.4*	*29.0*	*29.6*	*29.0*	*24.9*	*22.5*	*20.1*	*19.5*
57.5°	1781.8	413.5	48.0	30.8	26.1	26.1	23.7	17.2	13.0	10.1	8.9
60°	1777.1	399.8	43.2	26.7	23.1	21.9	17.2	10.1	6.5	4.7	4.1
62.5°	1732.0	366.7	39.1	21.3	20.1	17.8	10.7	5.9	3.6	2.4	1.8
65°	1584.6	301.5	34.9	16.6	15.4	13.0	6.5	3.6	1.8	0.6	0.0
67.5°	1260.5	213.8	30.8	12.4	10.7	8.3	4.1	2.4	0.6	0.0	0.0
70°	726.8	115.5	25.5	8.9	7.1	5.3	3.0	1.2	0.0	0.0	0.0
72.5°	242.9	53.9	19.5	5.9	5.3	4.1	1.8	0.6	0.0	0.0	0.0
75°	53.3	32.0	13.0	4.1	3.6	3.0	1.2	0.0	0.0	0.0	0.0
77.5°	20.1	22.5	6.5	3.0	2.4	1.8	0.6	0.0	0.0	0.0	0.0
80°	7.7	14.8	3.0	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	5.9	1.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	3.0	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	0.6	0.6	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

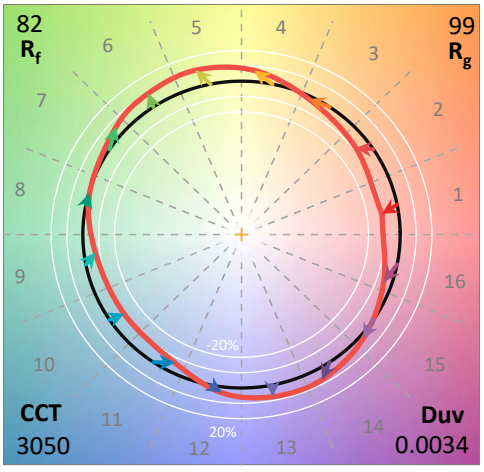
Test Information

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

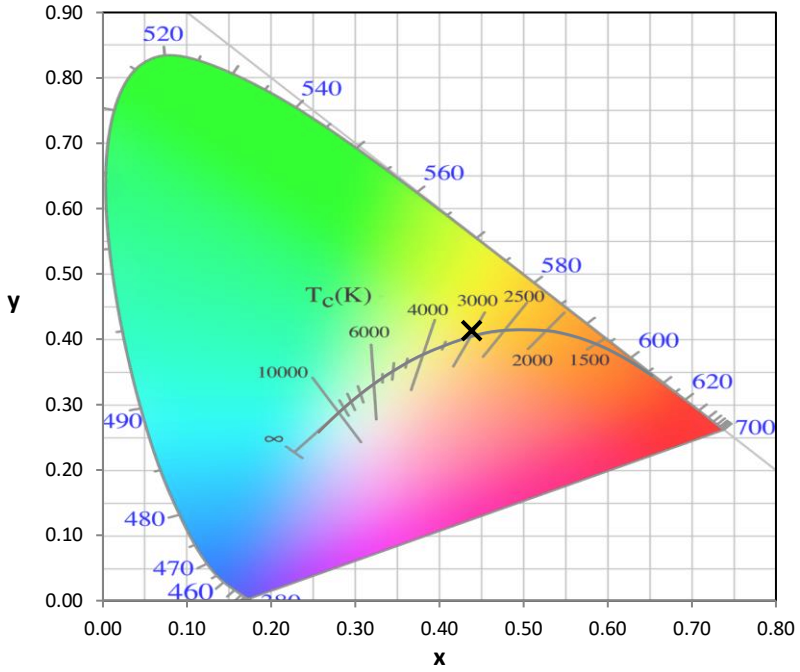
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

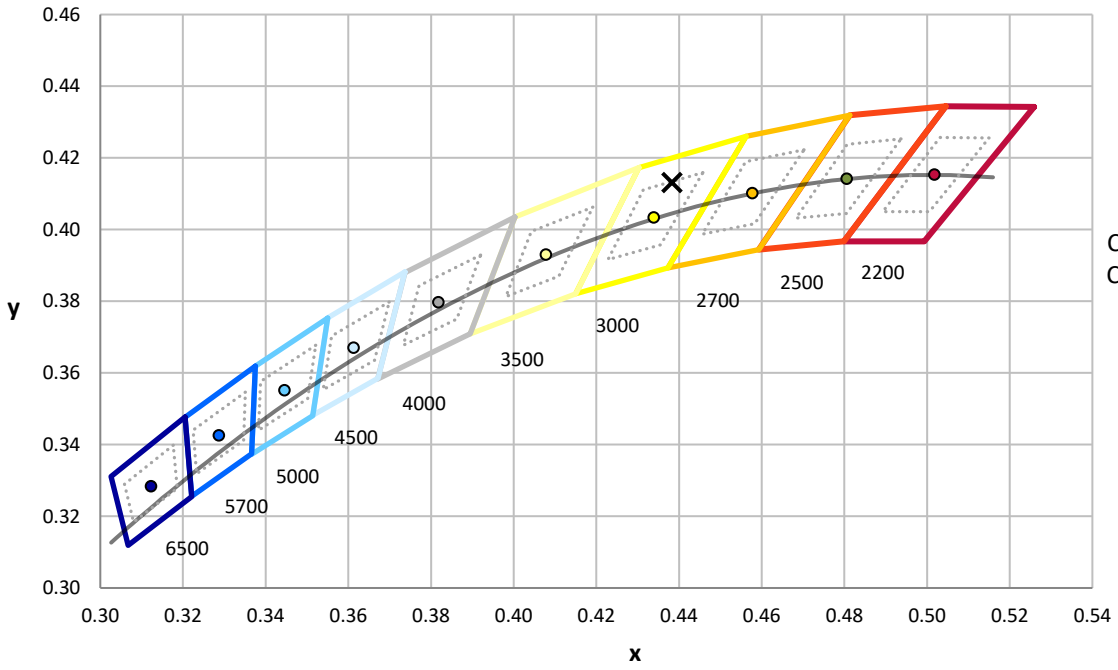
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

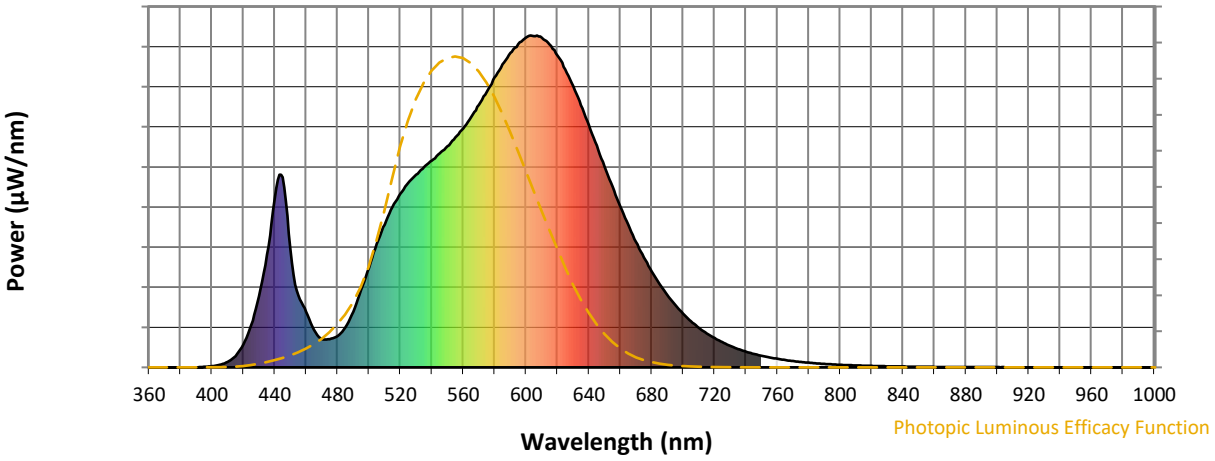


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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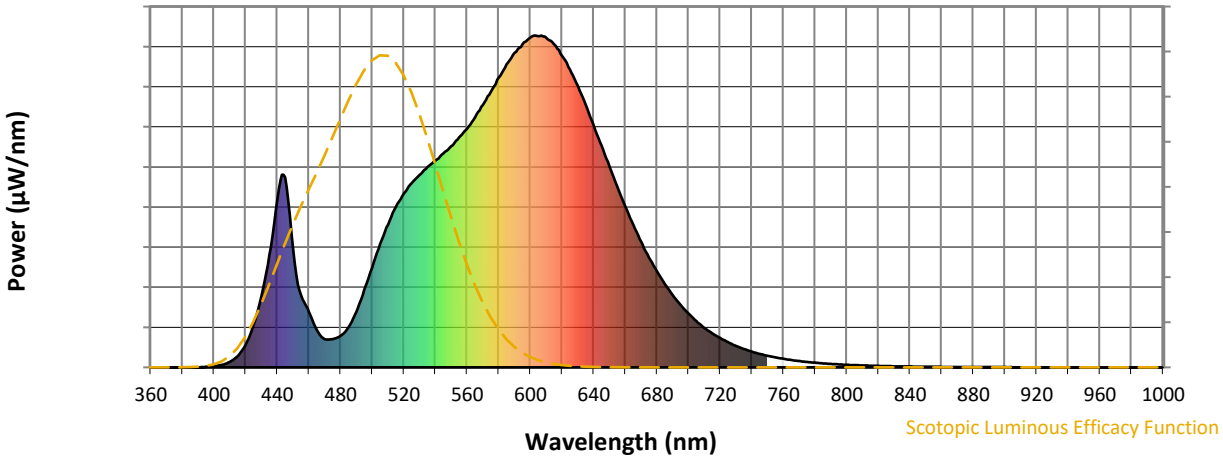
Scotopic Flux vs. Wavelength



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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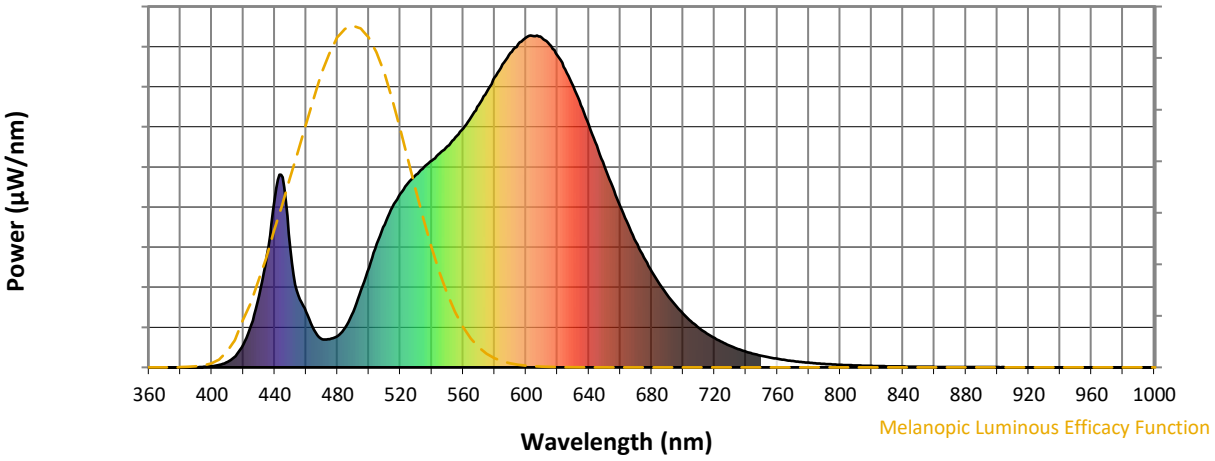
Melanopic Flux vs. Wavelength



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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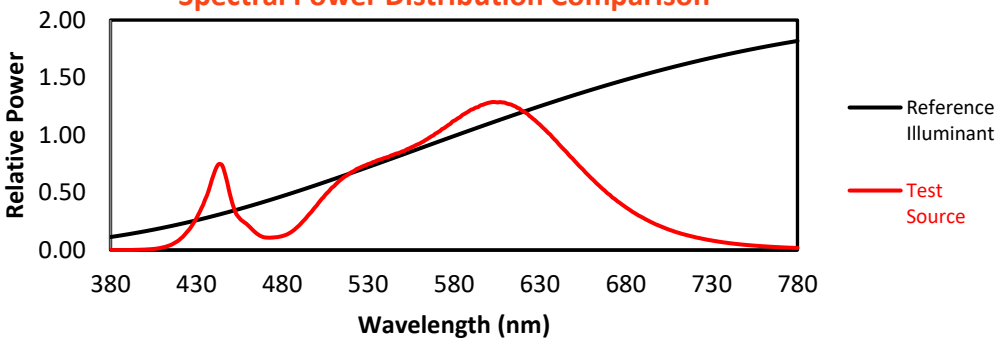
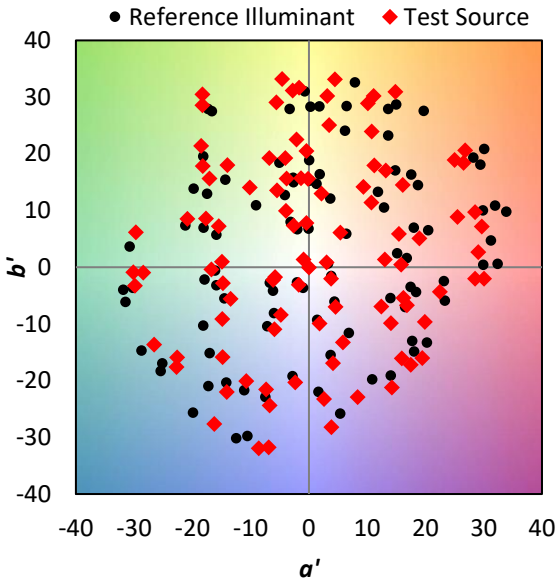
Summary

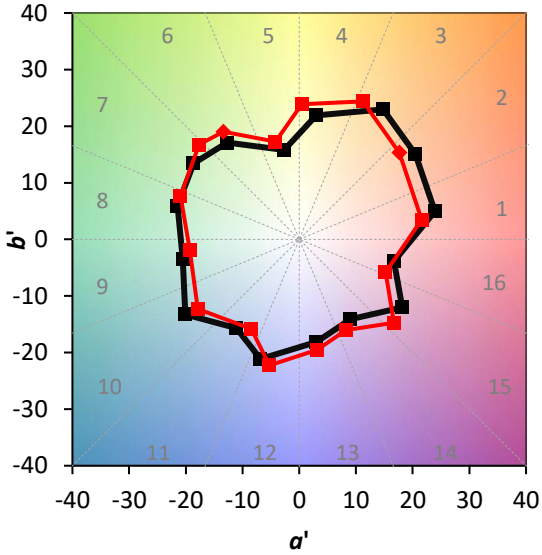
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

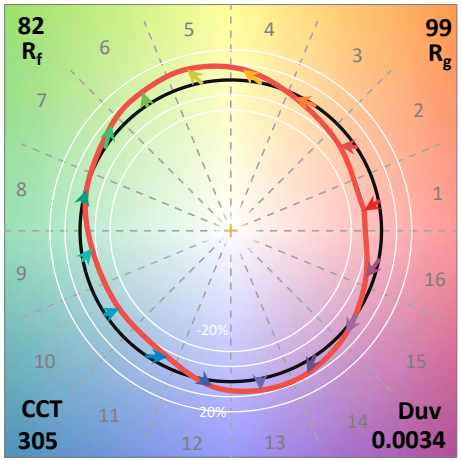
Spectral Power Distribution Comparison

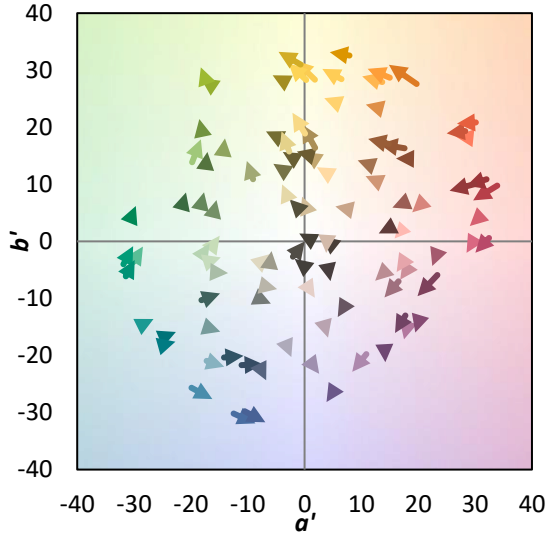


Color Vector Graphics









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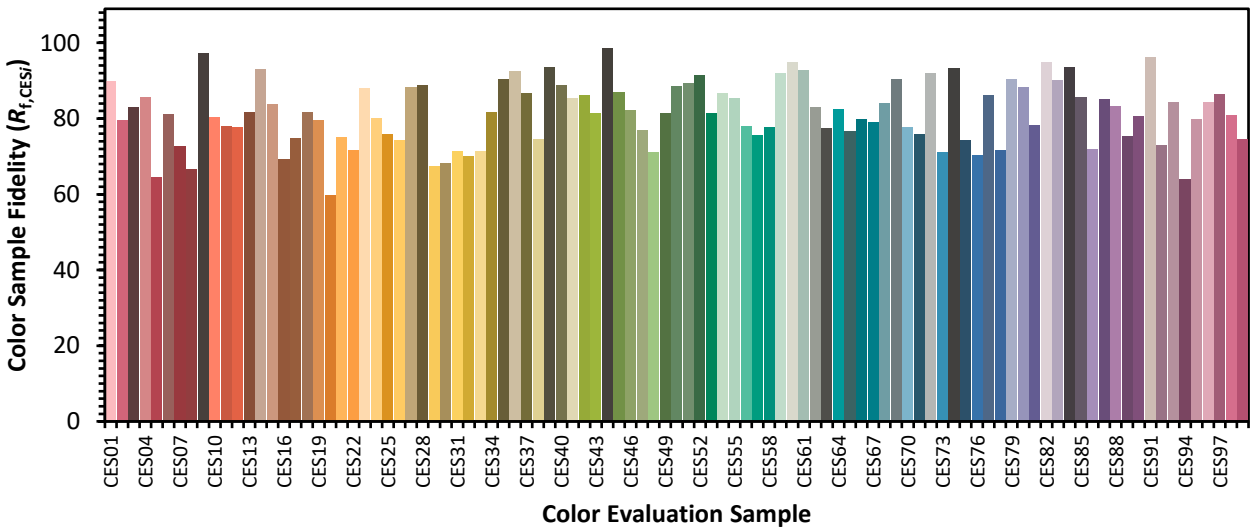
Individual Sample Fidelity Index ($R_{f,i}$)

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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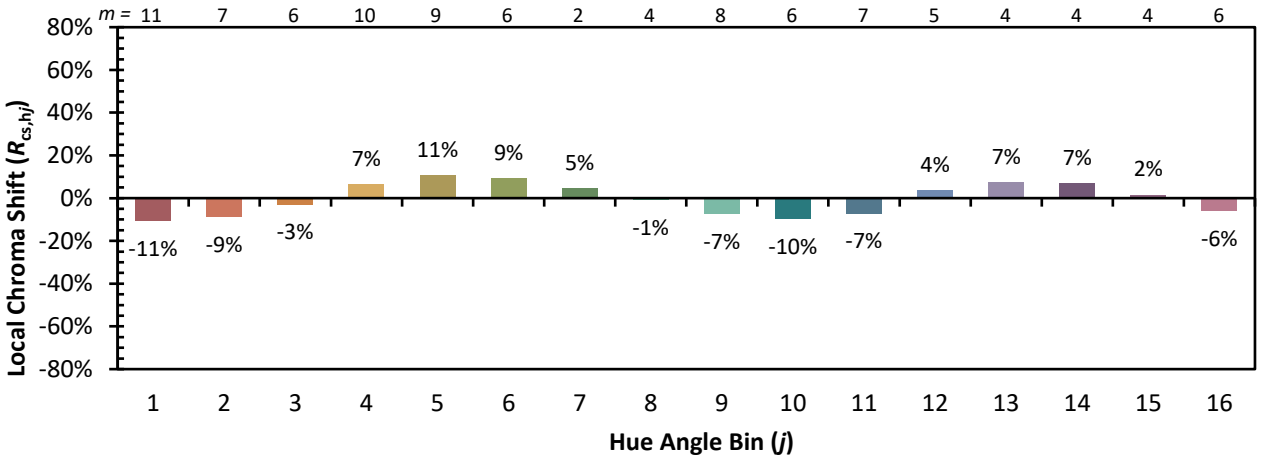
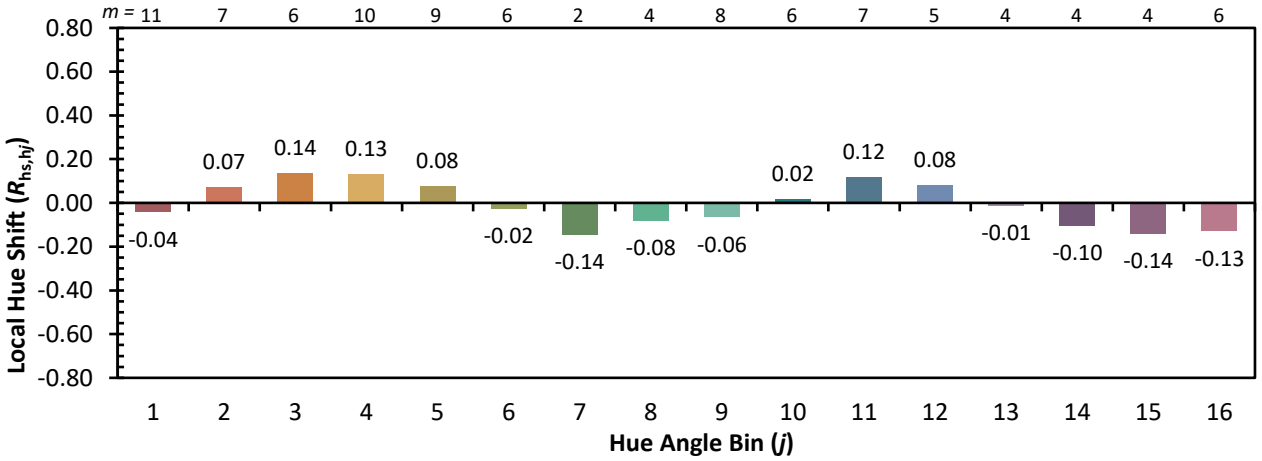
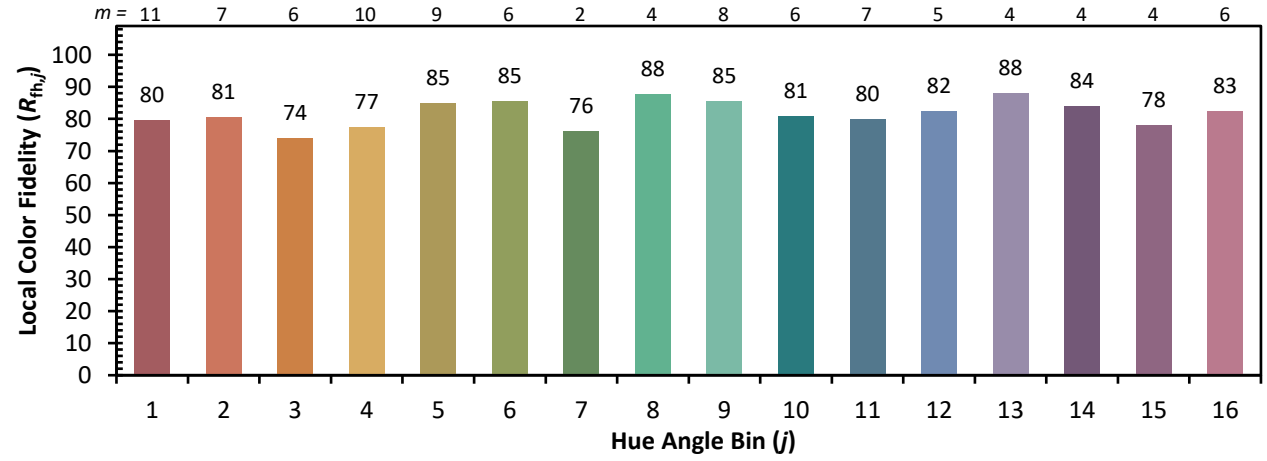
Color Rendition by Hue-Angle Bin







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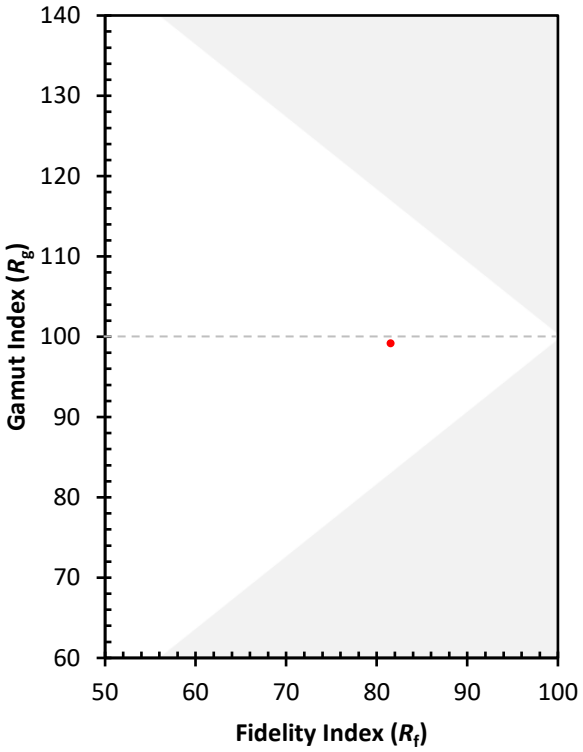
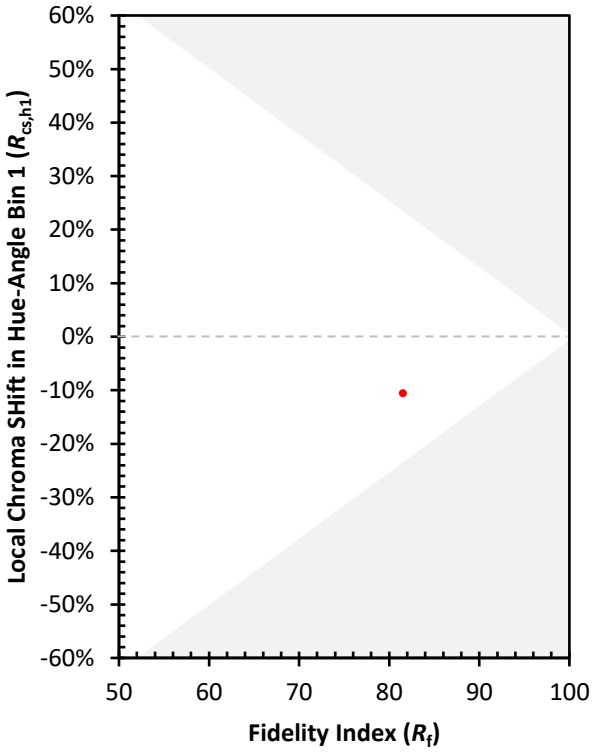
Measure Comparisons





(END OF REPORT)