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: P633017

Luminaire Tested: GWS-SA2D-830-U-AFL-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:	P633017
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-AFL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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:	6985.7 lumens
Efficiency:	N/A
Efficacy:	85.1 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):	82.1
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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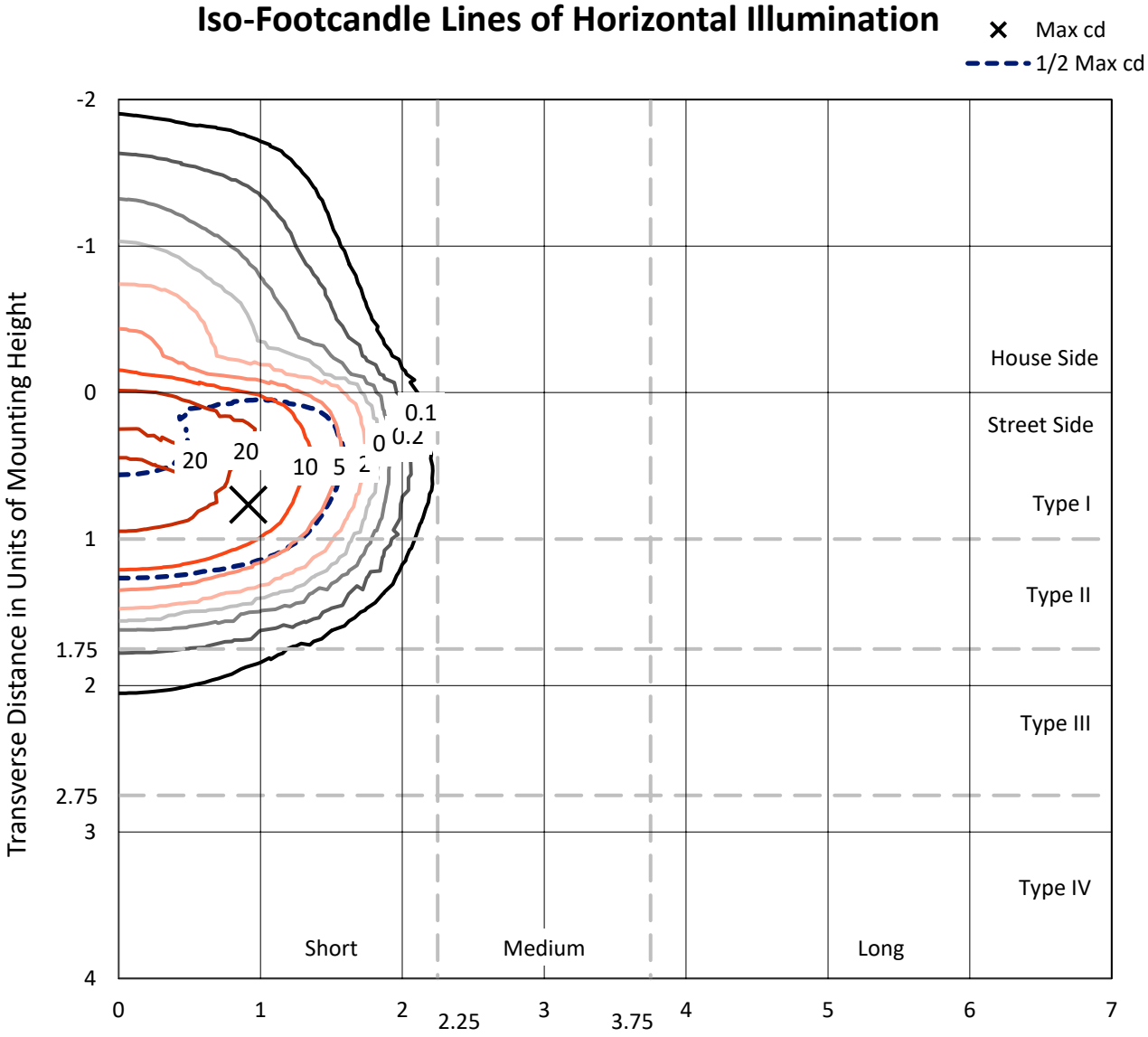
REPORT NUMBER: P633017
CATALOG NUMBER: GWS-SA2D-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 27.1 fc
Type II - Short - N/A

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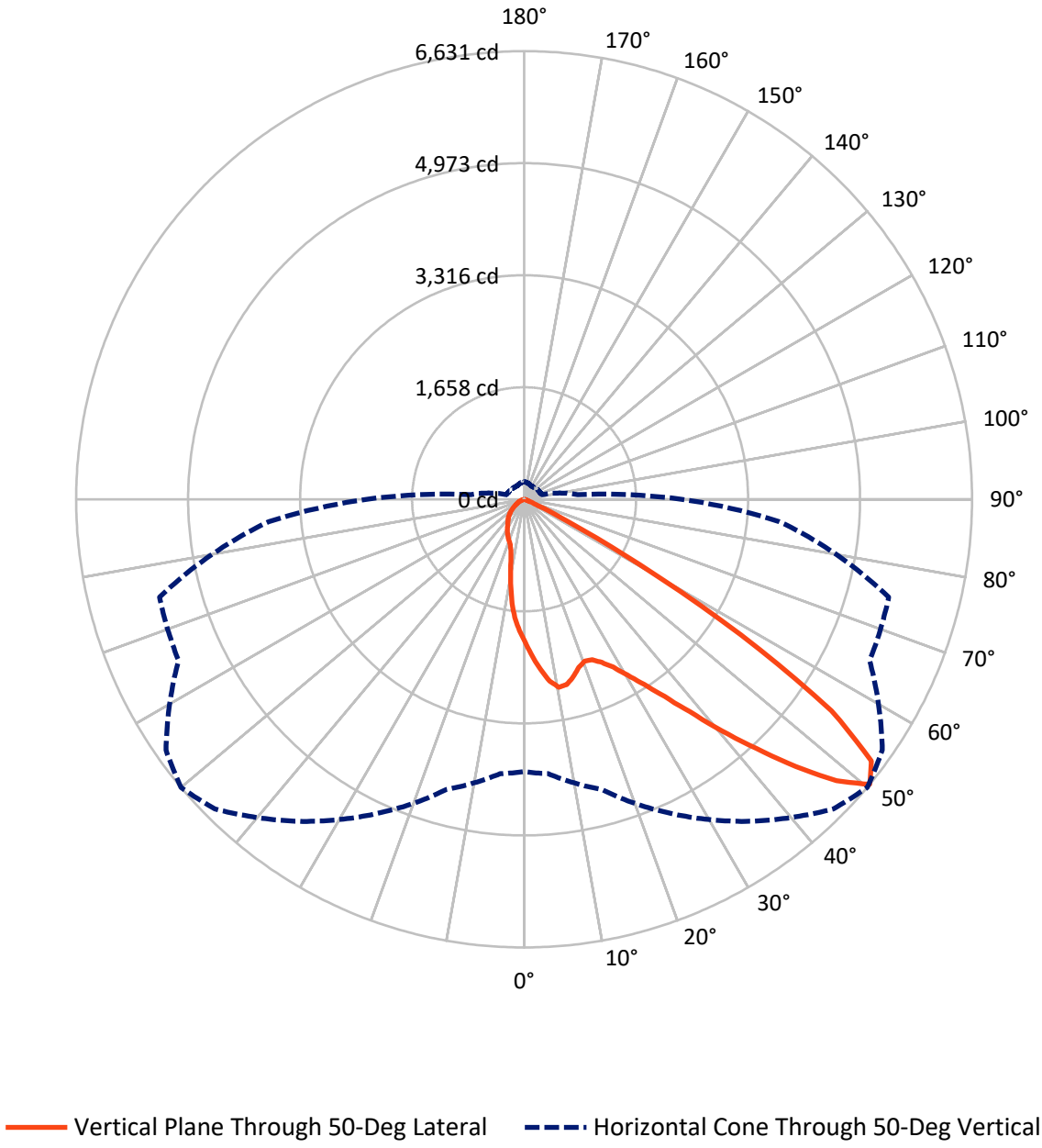
Luminous Intensity Polar Plot



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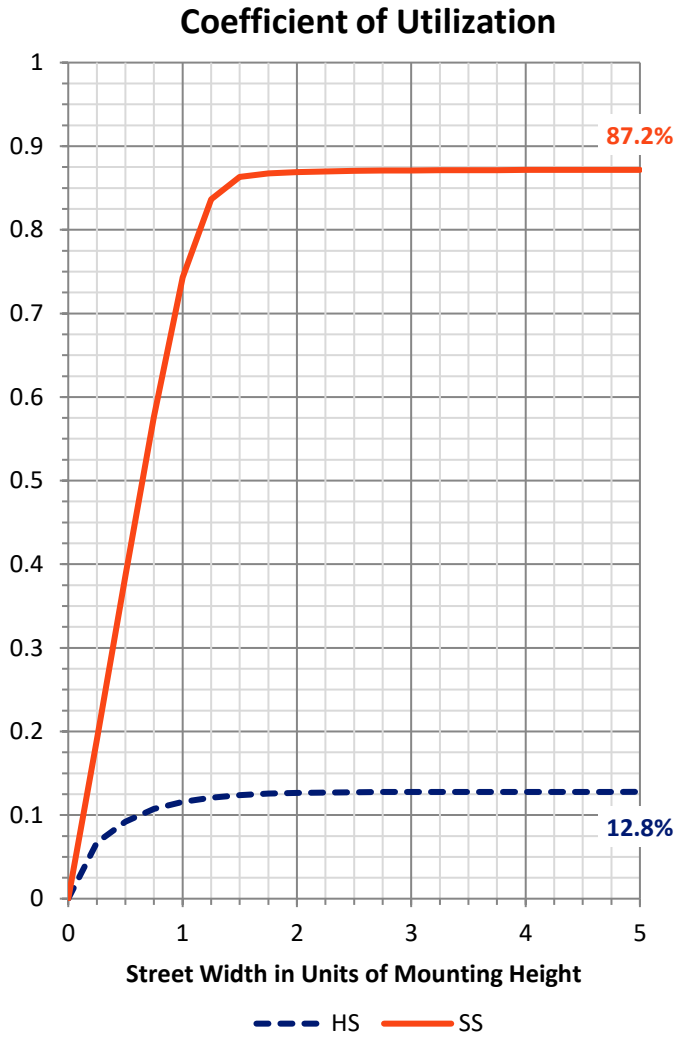
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.6	0.0	897.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6088.2	0.0	6088.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	6985.7	0.0	6985.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	2.8
10°-20°	506.5	7.3
20°-30°	836.0	12.0
30°-40°	1379.5	19.7
40°-50°	2182.7	31.2
50°-60°	1652.6	23.7
60°-70°	206.8	3.0
70°-80°	23.4	0.3
80°-90°	1.8	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°	6985.7	100.0
0°-180°	6985.7	100.0



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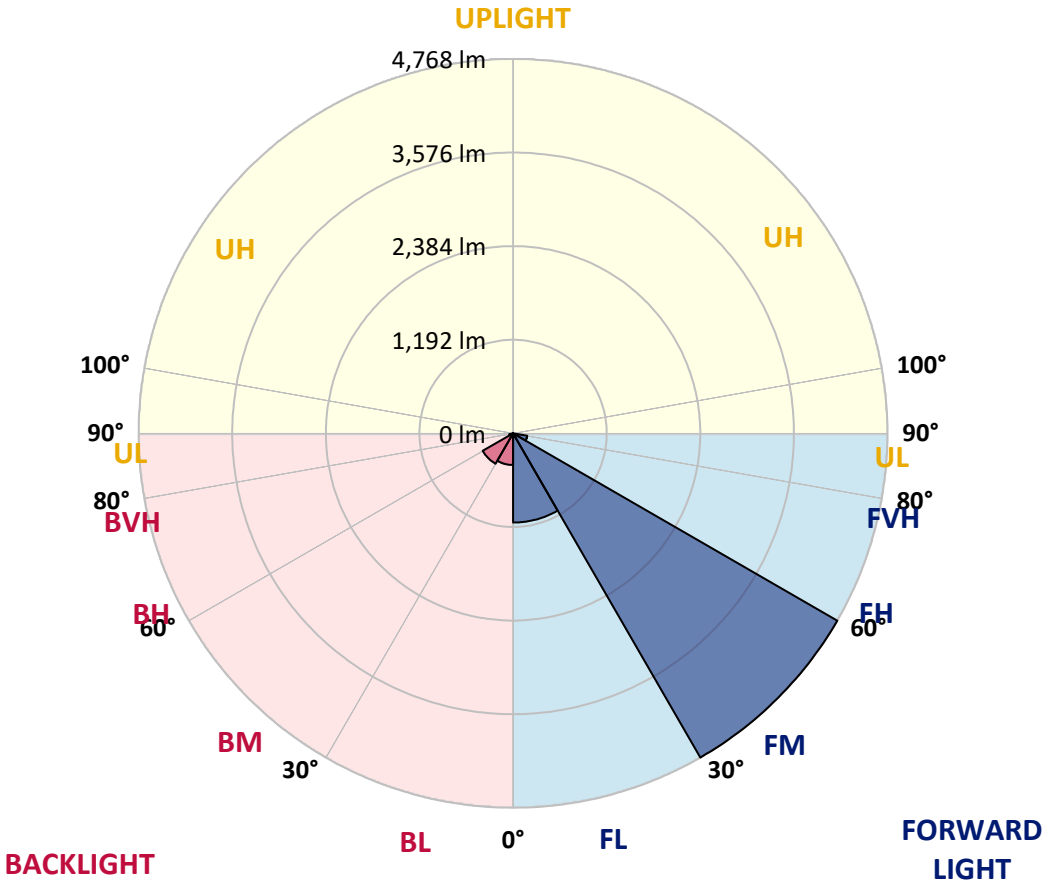
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1136.0	16.3			
FM	(30°-60°)	4768.5	68.3			
FH	(60°-80°)	182.9	2.6			G0/660
FVH	(80°-90°)	0.8	0.0			G0/10
BL	(0°-30°)	402.9	5.8	B1/500		
BM	(30°-60°)	446.4	6.4	B1/1000		
BH	(60°-80°)	47.4	0.7	B0/110		G0/110
BVH	(80°-90°)	1.0	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: P633017
CATALOG NUMBER: GWS-SA2D-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4
2.5°	2411.6	2430.9	2425.6	2400.3	2373.0	2353.8	2323.8	2314.5	2246.7	2199.5	2149.6
5°	2702.8	2708.8	2702.2	2671.6	2623.7	2577.8	2528.6	2500.0	2386.3	2283.9	2179.6
7.5°	2772.6	2765.3	2778.0	2793.3	2786.6	2766.7	2714.8	2683.6	2547.9	2381.0	2222.8
10°	2554.6	2537.9	2585.1	2664.3	2747.4	2841.1	2827.8	2830.5	2705.5	2503.4	2279.3
12.5°	2265.3	2258.7	2293.9	2385.7	2548.6	2761.3	2812.5	2898.3	2849.8	2635.7	2343.8
15°	2138.3	2141.7	2162.9	2220.8	2337.8	2602.4	2725.4	2880.4	2978.8	2764.0	2414.9
17.5°	2157.6	2169.6	2168.9	2188.2	2259.3	2471.4	2615.1	2823.8	3078.5	2911.6	2496.7
20°	2288.6	2300.6	2282.6	2268.0	2291.9	2438.2	2557.2	2766.7	3145.7	3060.6	2583.2
22.5°	2484.7	2498.7	2456.2	2414.3	2399.0	2492.7	2579.2	2743.4	3196.9	3196.9	2660.3
25°	2722.1	2741.4	2675.6	2601.1	2558.6	2607.8	2672.9	2795.9	3249.4	3319.2	2712.8
27.5°	2987.4	2988.1	2931.6	2847.8	2768.0	2774.0	2813.2	2914.3	3307.2	3450.9	2754.0
30°	3286.0	3288.0	3212.8	3112.4	3012.0	2984.8	3018.0	3094.5	3427.6	3616.4	2811.2
32.5°	3671.6	3680.9	3573.2	3425.6	3295.3	3244.1	3263.3	3343.8	3619.1	3823.9	2897.0
35°	4192.9	4202.9	4043.9	3849.1	3641.7	3564.6	3583.8	3665.0	3896.3	4118.4	3034.0
37.5°	4707.5	4720.8	4559.9	4378.4	4093.8	3966.2	3986.1	4063.2	4312.6	4525.3	3253.4
40°	5063.2	5081.2	5031.3	4909.0	4645.0	4477.5	4501.4	4529.3	4770.7	5012.0	3538.0
42.5°	5250.7	5276.0	5297.3	5359.8	5220.8	5080.5	5040.0	5042.0	5236.8	5508.1	3833.8
45°	5262.1	5286.7	5395.7	5637.1	5742.8	5713.5	5639.7	5589.8	5592.5	5838.5	4018.7
47.5°	4896.4	4942.2	5146.4	5619.1	6016.7	6259.4	6222.2	6103.8	5742.1	5860.5	3998.7
50°	4030.0	4075.2	4446.2	5126.4	5817.2	6477.5	6631.1	6472.2	5644.4	5587.2	3793.3
52.5°	2926.9	2931.6	3172.3	3966.8	5008.7	6075.2	6436.9	6421.6	5495.4	5256.1	3512.7
55°	1390.3	1373.7	1644.3	2238.7	3464.1	4913.6	5523.4	5696.2	5284.0	5016.7	3295.3
57.5°	404.9	412.9	533.3	873.7	1732.7	3140.3	3782.6	4104.5	4337.2	4124.4	2555.9
60°	181.5	182.2	202.8	266.0	577.1	1460.8	1955.5	2353.8	2593.1	2403.0	1268.0
62.5°	131.7	132.3	140.3	150.3	196.1	494.7	733.4	977.4	995.4	651.6	321.1
65°	109.7	109.7	111.0	111.0	117.7	176.9	222.7	287.2	242.0	179.5	125.7
67.5°	88.4	89.1	90.4	90.4	88.4	88.4	95.7	105.1	112.4	139.0	115.7
70°	69.2	68.5	68.5	69.2	67.2	57.2	61.8	70.5	77.1	108.4	100.4
72.5°	53.9	54.5	53.9	51.2	46.5	33.9	36.6	45.9	49.2	67.8	67.8
75°	40.6	41.2	38.6	29.3	19.3	10.6	14.0	22.6	28.6	33.2	24.6
77.5°	5.3	5.3	4.0	4.0	3.3	4.0	4.0	5.3	8.0	8.0	6.0
80°	0.7	0.7	0.7	1.3	2.0	2.7	2.7	2.7	2.7	3.3	3.3
82.5°	0.7	0.7	0.7	0.7	2.0	2.0	2.7	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.7	1.3	2.0	2.0	2.7	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	0.7	1.3	2.0	2.0	2.0	2.7	2.7	2.7
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: P633017
CATALOG NUMBER: GWS-SA2D-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4
2.5°	2119.7	2081.1	2034.6	2002.7	1957.5	1927.6	1885.0	1856.4	1831.8	1812.5	1823.2
5°	2120.4	2059.2	1964.1	1883.0	1794.6	1713.5	1626.4	1557.9	1496.0	1468.1	1483.4
7.5°	2133.7	2045.9	1900.3	1756.0	1586.5	1418.9	1262.0	1134.3	1071.2	1041.2	1050.5
10°	2159.6	2039.9	1829.2	1589.8	1314.5	1085.8	933.5	847.1	811.8	793.2	796.6
12.5°	2183.5	2035.9	1736.7	1371.0	1037.3	842.4	763.3	751.3	758.7	759.3	758.7
15°	2216.1	2028.6	1622.4	1146.3	829.8	728.1	730.1	747.4	764.6	770.0	768.6
17.5°	2250.7	2017.3	1474.8	930.9	704.1	694.8	718.1	741.4	758.7	761.3	762.0
20°	2286.6	1994.0	1306.5	760.0	645.6	669.6	695.5	712.8	725.4	729.4	730.7
22.5°	2303.2	1944.8	1112.4	637.6	606.4	638.3	657.6	680.2	684.2	669.6	672.2
25°	2294.6	1861.7	922.9	555.2	567.2	599.1	627.7	616.4	599.7	589.1	592.4
27.5°	2267.3	1751.4	737.4	494.7	525.3	565.8	569.2	556.5	553.9	545.2	547.9
30°	2238.1	1624.4	593.1	446.2	482.7	525.3	515.3	520.0	520.6	510.6	514.0
32.5°	2220.1	1491.4	472.1	413.6	455.5	463.4	483.4	492.7	493.4	470.1	474.1
35°	2226.1	1360.4	399.6	387.0	430.2	428.2	456.1	461.4	422.9	391.0	394.3
37.5°	2274.6	1239.4	358.4	366.4	386.3	401.6	422.9	387.6	379.0	364.4	366.4
40°	2365.1	1136.3	333.8	353.7	356.4	381.0	348.4	353.1	353.7	344.4	346.4
42.5°	2470.8	1050.5	319.2	346.4	339.8	343.8	311.2	320.5	330.5	326.5	327.1
45°	2524.0	966.8	306.5	321.1	323.1	285.2	277.9	287.9	300.5	302.5	303.2
47.5°	2476.8	887.0	293.2	284.6	297.9	260.0	251.3	254.7	269.3	277.3	278.6
50°	*2332.5*	*795.2*	*273.3*	*252.0*	*244.7*	*233.4*	*225.4*	*226.1*	*242.7*	*256.7*	*259.3*
52.5°	2129.7	699.5	240.7	213.4	196.8	205.5	207.5	203.5	218.8	232.7	235.4
55°	1932.9	579.8	190.8	173.5	158.2	176.9	182.2	176.9	181.5	190.8	191.5
57.5°	1361.1	327.8	146.3	143.6	131.0	151.6	160.2	152.3	144.3	150.3	151.6
60°	631.0	171.5	112.4	112.4	109.0	130.3	144.9	133.6	118.4	121.0	123.0
62.5°	197.5	108.4	82.4	77.8	89.1	111.0	123.0	111.7	93.8	93.8	96.4
65°	111.7	93.1	65.2	59.8	72.5	89.1	96.4	84.4	68.5	67.2	67.2
67.5°	103.7	88.4	57.8	48.5	51.2	57.2	59.8	51.9	47.2	46.5	47.2
70°	85.8	73.8	46.5	33.2	31.3	30.6	31.9	29.9	28.6	29.3	31.3
72.5°	53.2	44.5	29.3	19.9	17.3	16.6	16.6	16.6	16.0	16.0	16.0
75°	19.3	16.6	13.3	10.0	8.6	8.0	8.0	8.6	8.0	7.3	6.6
77.5°	6.0	5.3	5.3	5.3	4.7	4.0	3.3	3.3	2.7	2.0	2.0
80°	3.3	3.3	3.3	3.3	2.7	2.7	2.0	1.3	0.7	0.7	0.0
82.5°	3.3	3.3	3.3	2.7	2.7	2.7	2.0	1.3	0.7	0.0	0.0
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.0	1.3	0.7	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.0	1.3	0.7	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

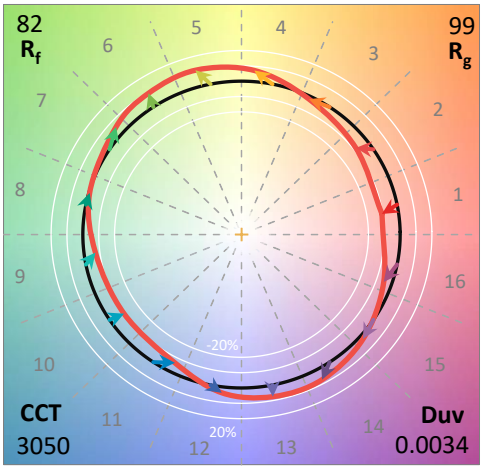
Test Information

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

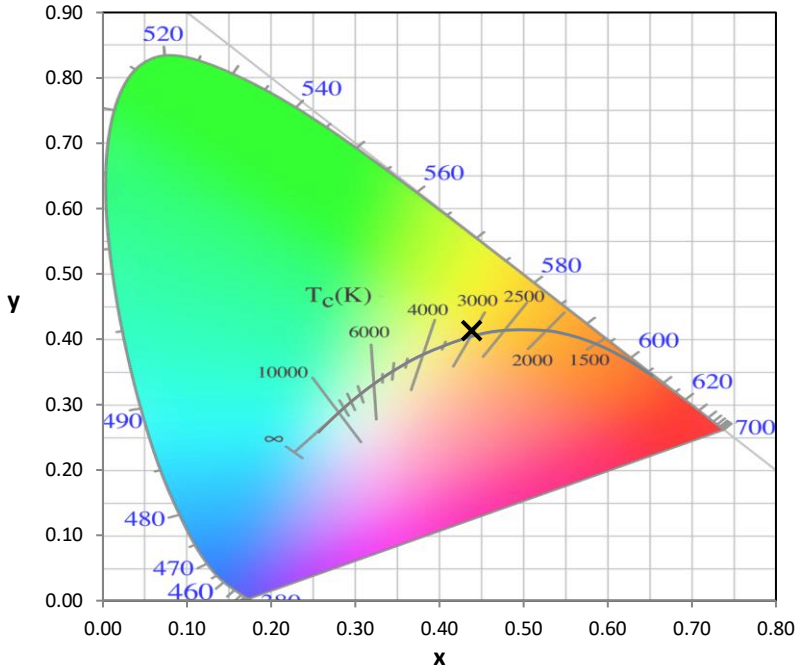
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

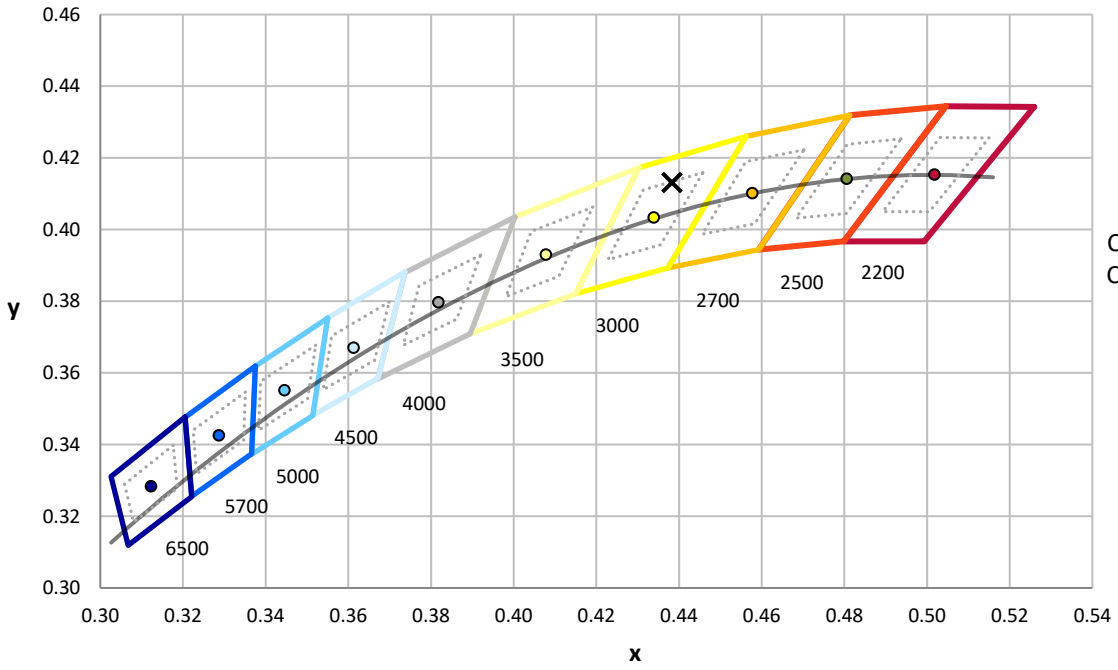
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

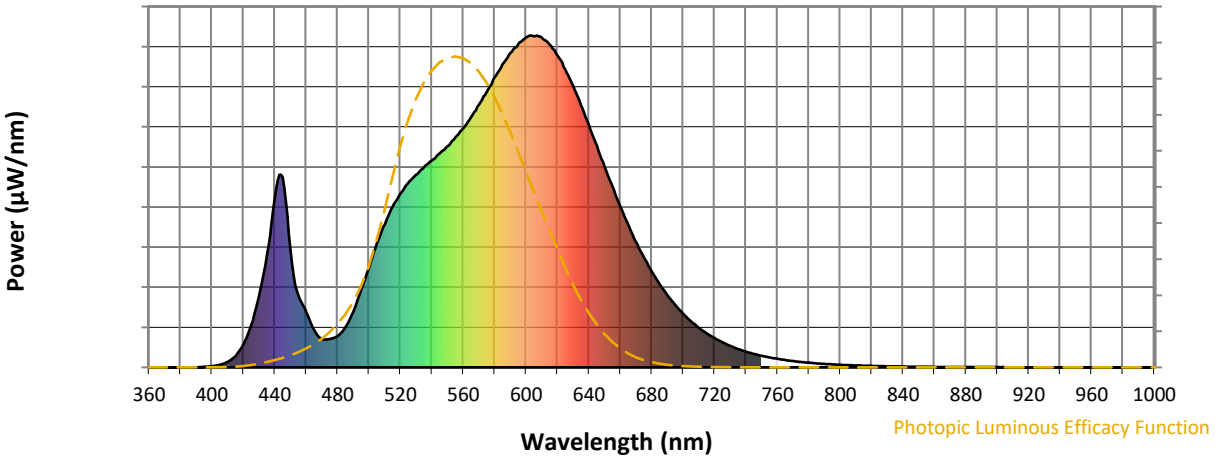


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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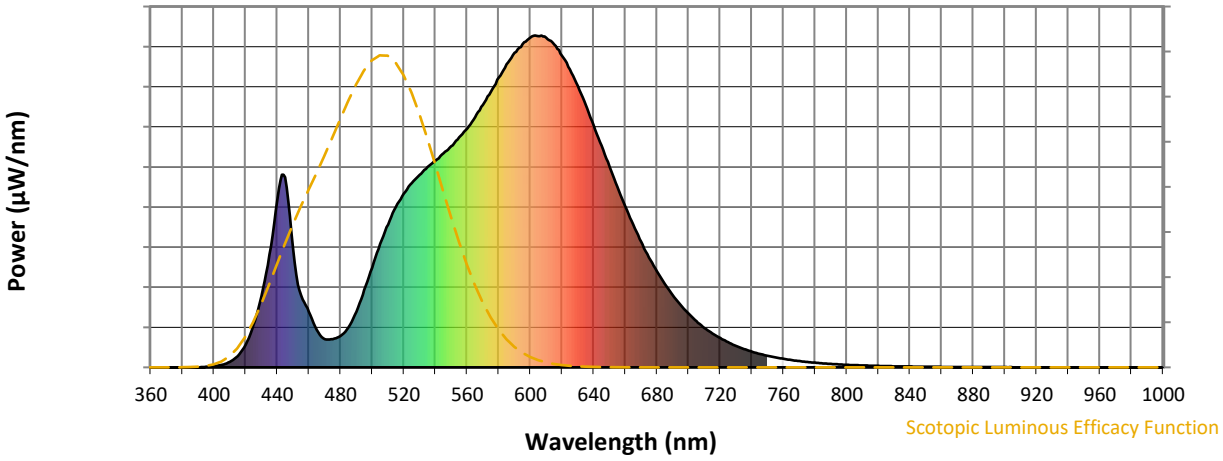
Scotopic Flux vs. Wavelength



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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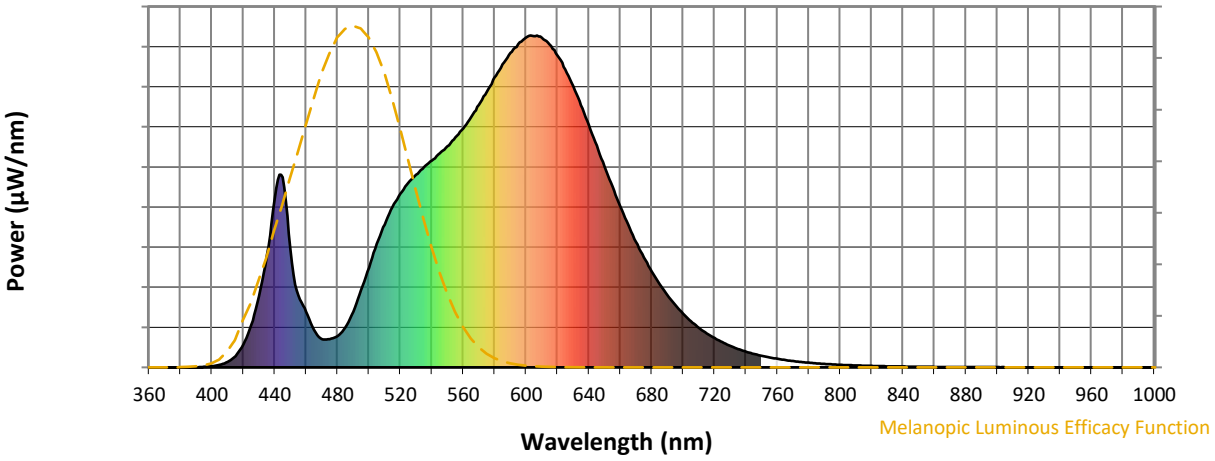
Melanopic Flux vs. Wavelength



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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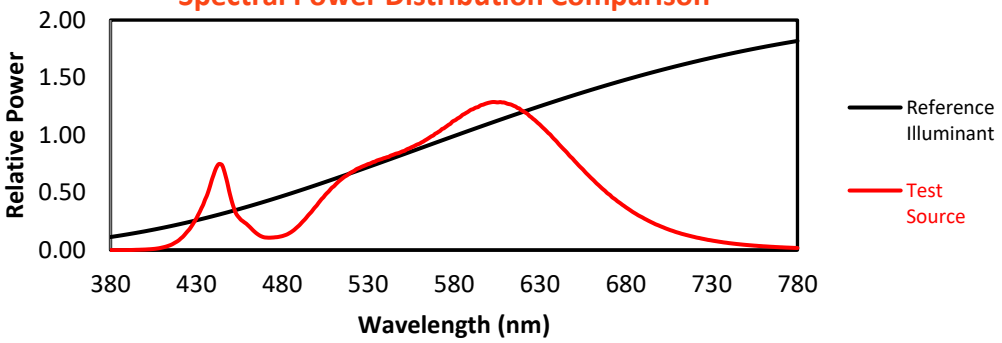
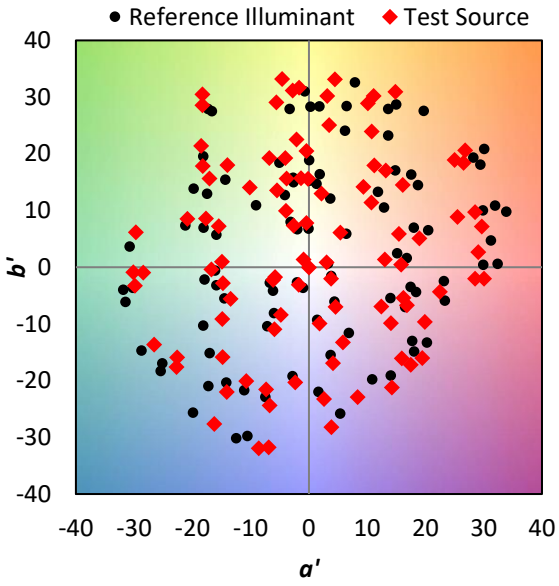
Summary

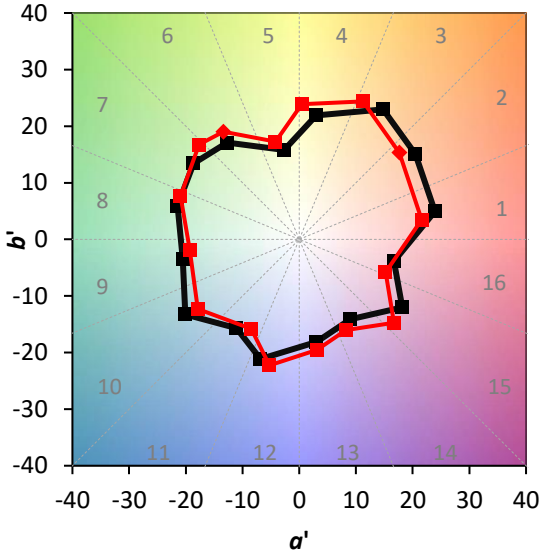
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

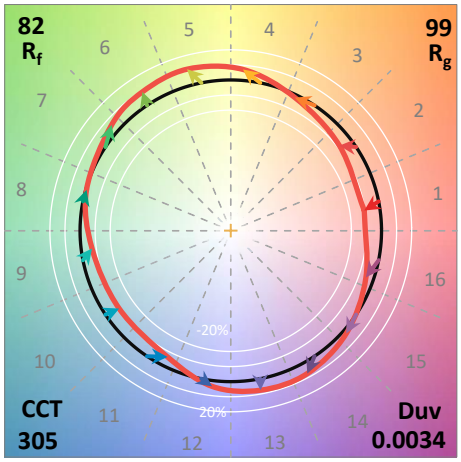
Spectral Power Distribution Comparison

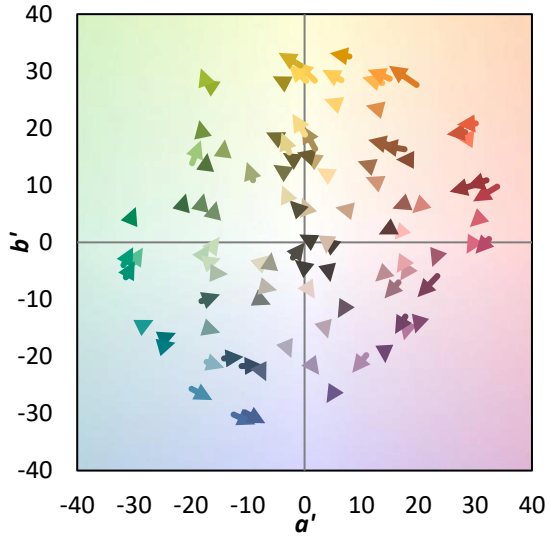


Color Vector Graphics









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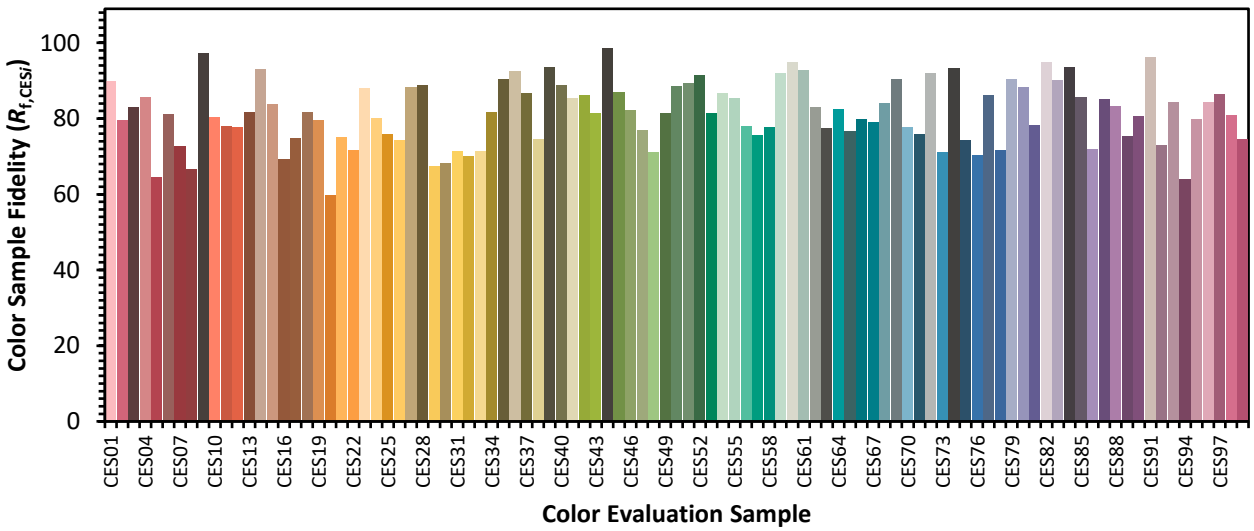
Individual Sample Fidelity Index ($R_{f,i}$)

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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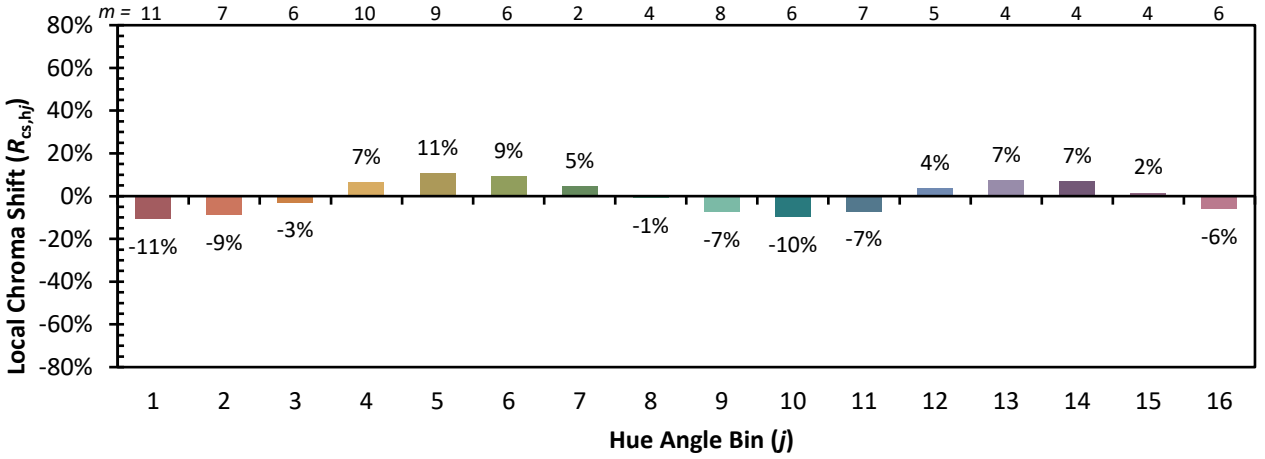
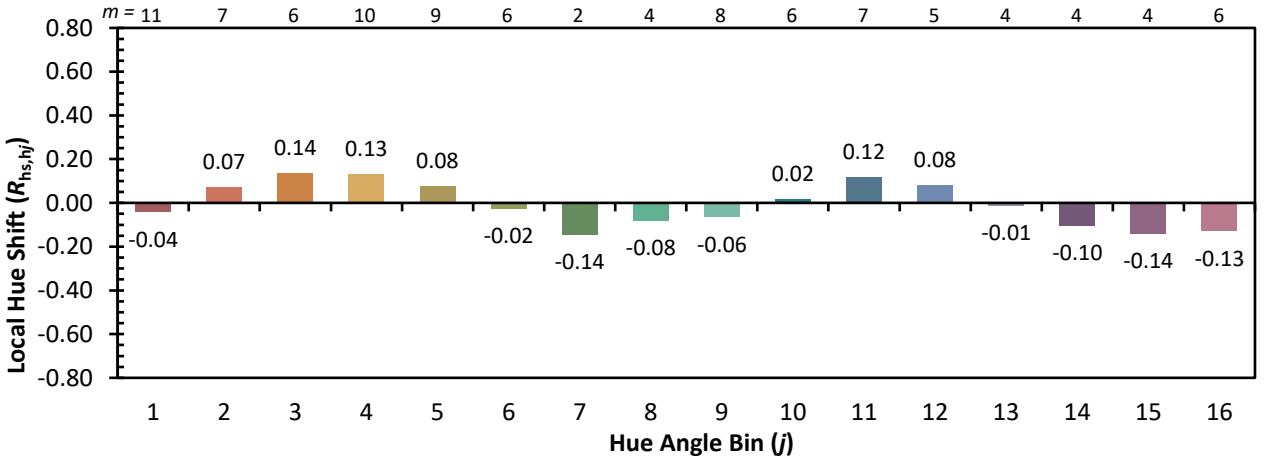
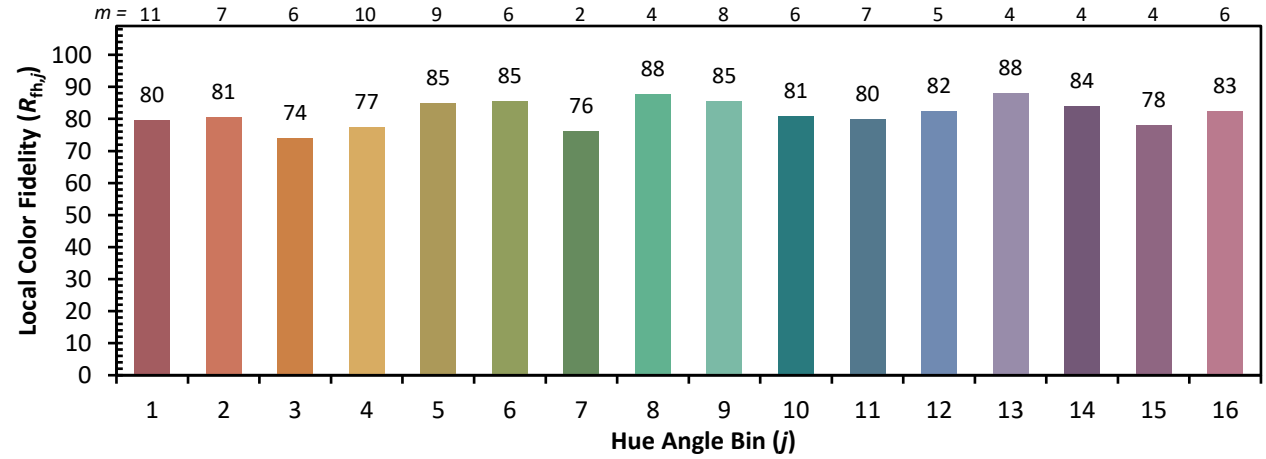
Color Rendition by Hue-Angle Bin







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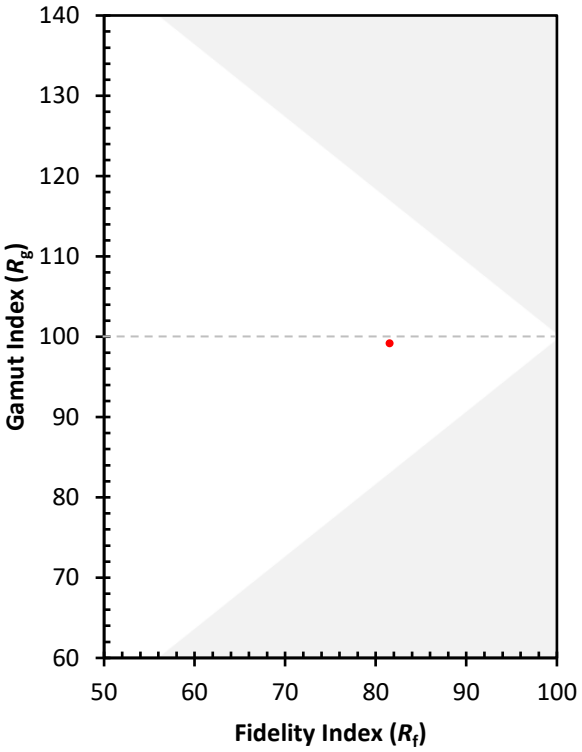
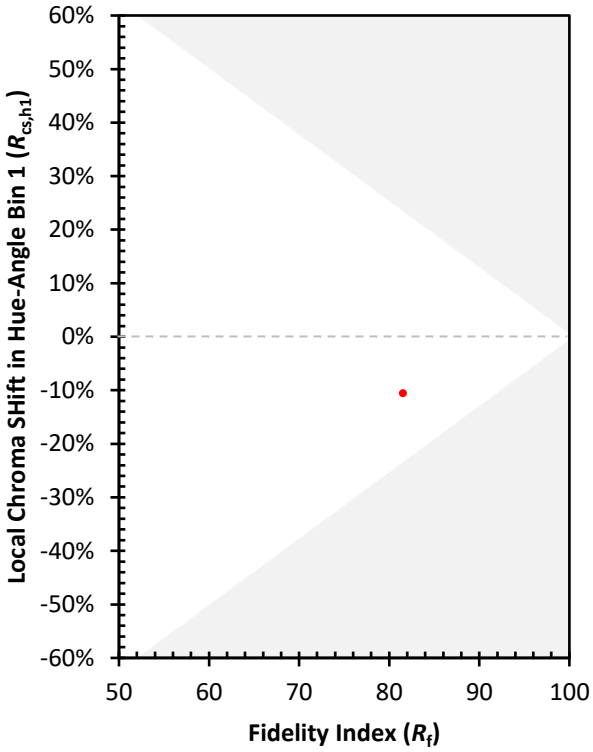
Measure Comparisons





(END OF REPORT)