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: P634997

Luminaire Tested: GWS-SA3C-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:	P634997
	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-SA3C-830-U-AFL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8345.8 lumens
Efficiency:	N/A
Efficacy:	89.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	93
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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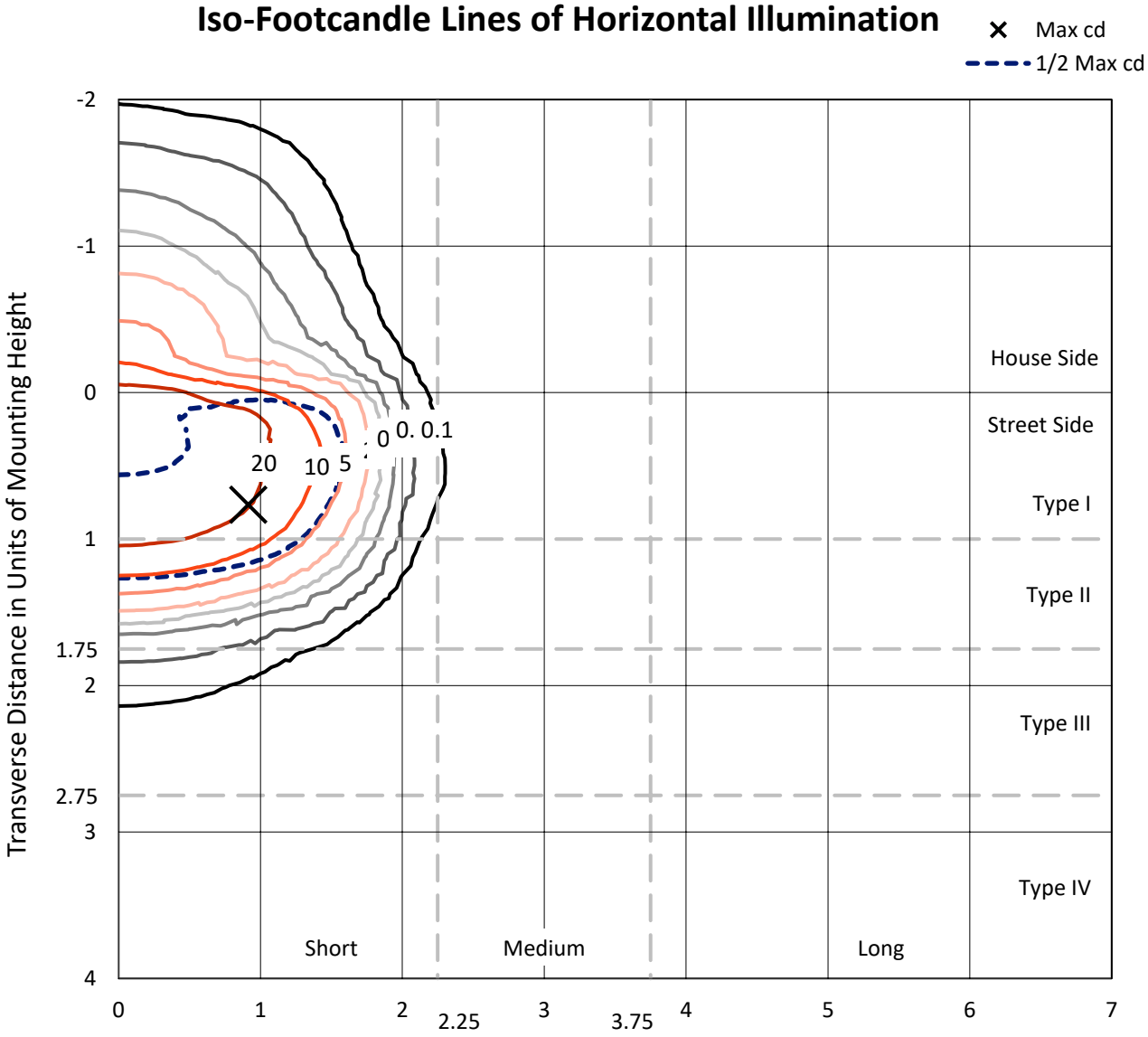
REPORT NUMBER: P634997
CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 32.4 fc
Type II - Short - N/A

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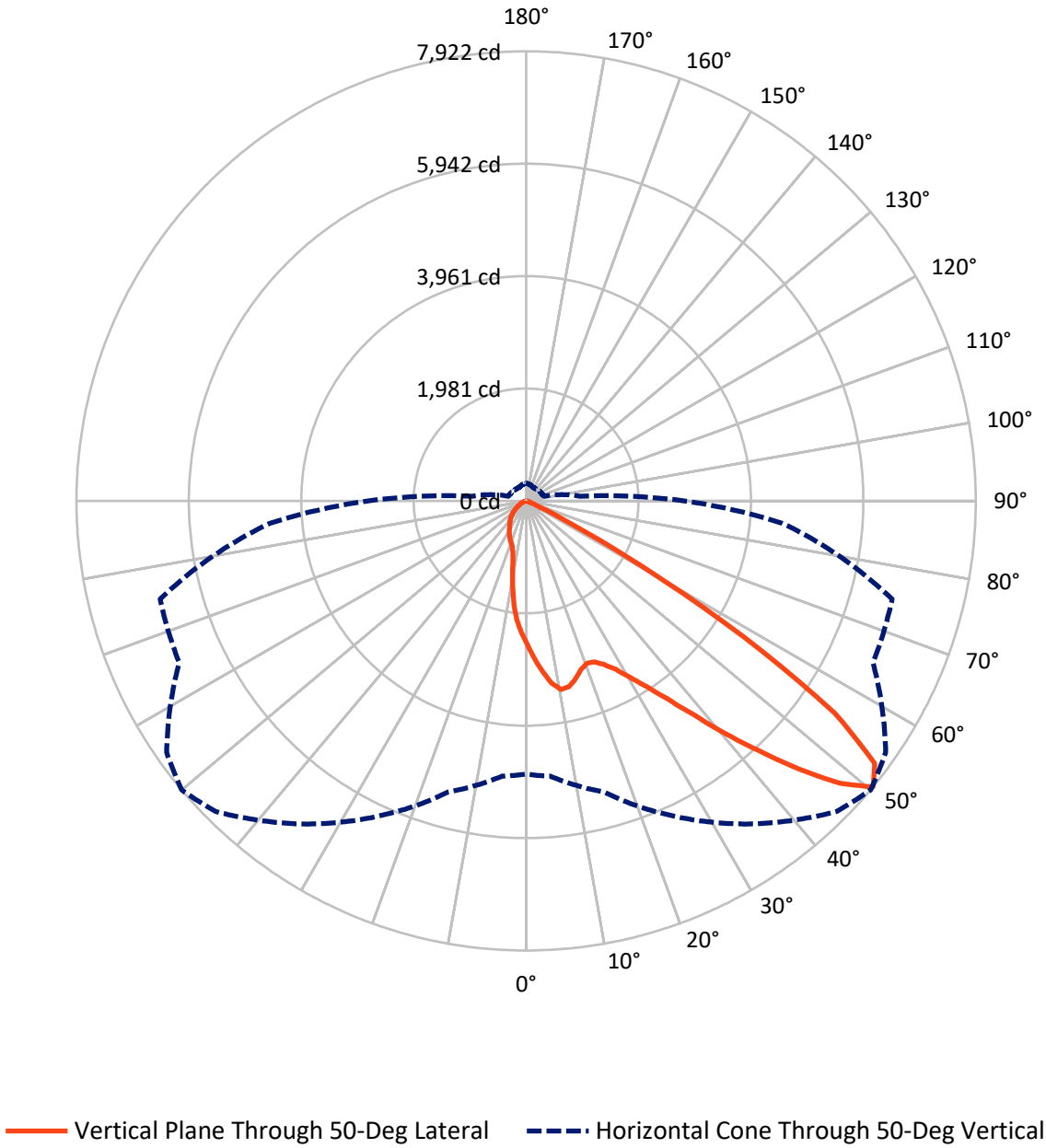
Luminous Intensity Polar Plot



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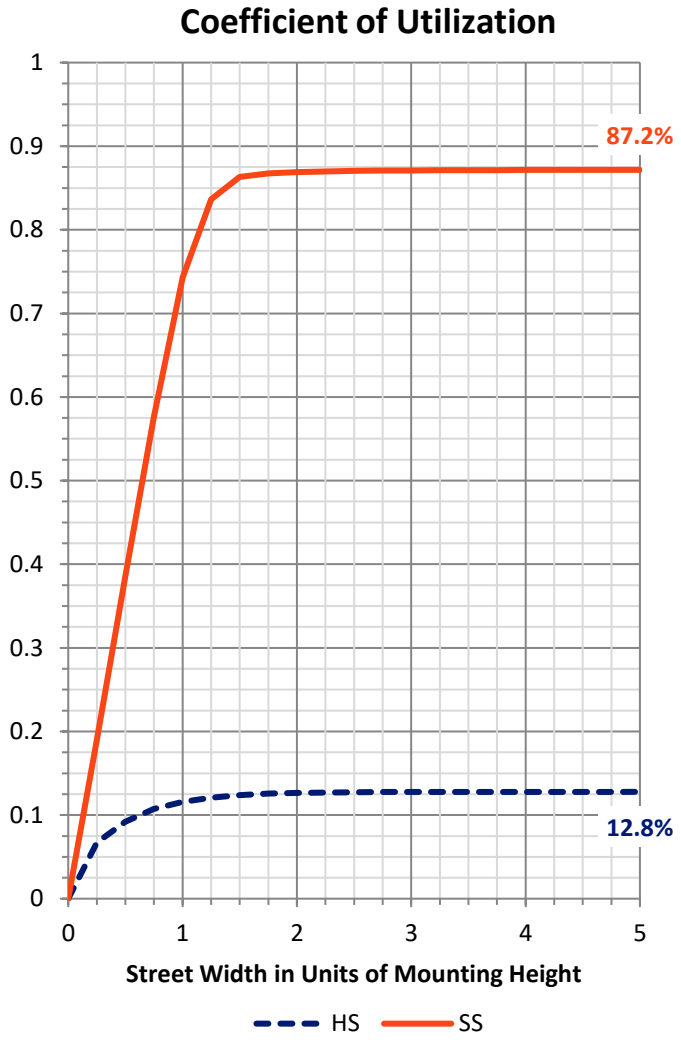
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.3	0.0	1072.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7273.5	0.0	7273.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	8345.8	0.0	8345.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	2.8
10°-20°	605.2	7.3
20°-30°	998.7	12.0
30°-40°	1648.1	19.7
40°-50°	2607.7	31.2
50°-60°	1974.3	23.7
60°-70°	247.1	3.0
70°-80°	28.0	0.3
80°-90°	2.2	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°	8345.8	100.0
0°-180°	8345.8	100.0



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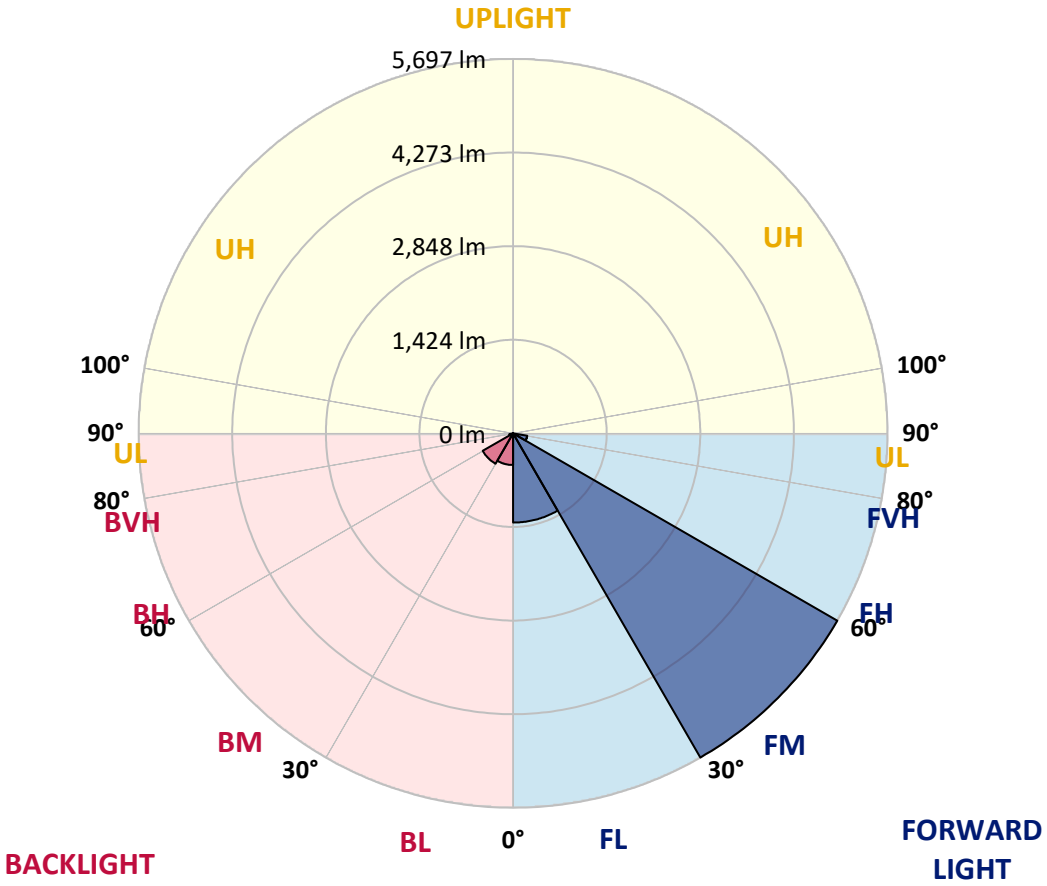
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1357.1	16.3			
FM	(30°-60°)	5696.9	68.3			
FH	(60°-80°)	218.5	2.6			G0/660
FVH	(80°-90°)	1.0	0.0			G0/10
BL	(0°-30°)	481.3	5.8	B1/500		
BM	(30°-60°)	533.3	6.4	B1/1000		
BH	(60°-80°)	56.6	0.7	B0/110		G0/110
BVH	(80°-90°)	1.1	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: P634997
CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4
2.5°	2881.1	2904.2	2897.8	2867.6	2835.1	2812.0	2776.3	2765.2	2684.1	2627.7	2568.2
5°	3229.1	3236.2	3228.3	3191.7	3134.5	3079.7	3020.9	2986.8	2851.0	2728.6	2603.9
7.5°	3312.5	3303.7	3318.8	3337.1	3329.2	3305.3	3243.4	3206.0	3044.0	2844.6	2655.5
10°	3051.9	3032.1	3088.5	3183.0	3282.3	3394.3	3378.4	3381.6	3232.2	2990.8	2723.1
12.5°	2706.4	2698.4	2740.5	2850.2	3044.8	3299.0	3360.1	3462.6	3404.6	3148.8	2800.1
15°	2554.7	2558.6	2584.1	2653.2	2793.0	3109.1	3256.1	3441.2	3558.7	3302.2	2885.1
17.5°	2577.7	2592.0	2591.2	2614.2	2699.2	2952.6	3124.2	3373.6	3677.9	3478.5	2982.8
20°	2734.2	2748.5	2727.0	2709.6	2738.2	2912.9	3055.1	3305.3	3758.1	3656.4	3086.1
22.5°	2968.5	2985.2	2934.4	2884.3	2866.0	2978.1	3081.3	3277.5	3819.3	3819.3	3178.2
25°	3252.1	3275.1	3196.5	3107.5	3056.7	3115.5	3193.3	3340.3	3882.0	3965.4	3241.0
27.5°	3569.1	3569.9	3502.3	3402.2	3306.9	3314.1	3360.9	3481.7	3951.1	4122.7	3290.2
30°	3925.7	3928.1	3838.3	3718.4	3598.4	3565.9	3605.6	3696.9	4094.9	4320.5	3358.6
32.5°	4386.5	4397.6	4268.9	4092.5	3936.8	3875.7	3898.7	3994.8	4323.7	4568.4	3461.0
35°	5009.2	5021.1	4831.3	4598.5	4350.7	4258.6	4281.6	4378.5	4654.9	4920.3	3624.7
37.5°	5624.1	5640.0	5447.7	5230.9	4890.9	4738.4	4762.2	4854.3	5152.2	5406.4	3886.8
40°	6049.0	6070.5	6010.9	5864.8	5549.4	5349.2	5377.8	5411.2	5699.5	5987.9	4226.8
42.5°	6273.1	6303.2	6328.7	6403.3	6237.3	6069.7	6021.2	6023.6	6256.4	6580.5	4580.3
45°	6286.6	6316.0	6446.2	6734.6	6860.9	6825.9	6737.8	6678.2	6681.4	6975.3	4801.1
47.5°	5849.7	5904.5	6148.3	6713.1	7188.2	7478.1	7433.6	7292.2	6860.1	7001.5	4777.3
50°	4814.6	4868.6	5311.9	6124.5	6949.8	7738.6	7922.1	7732.3	6743.3	6675.0	4531.8
52.5°	3496.8	3502.3	3789.9	4739.1	5983.9	7258.1	7690.2	7671.9	6565.4	6279.4	4196.6
55°	1661.0	1641.1	1964.5	2674.6	4138.6	5870.3	6598.7	6805.3	6312.8	5993.4	3936.8
57.5°	483.8	493.3	637.1	1043.8	2070.1	3751.8	4519.1	4903.6	5181.6	4927.4	3053.5
60°	216.9	217.7	242.3	317.7	689.5	1745.2	2336.2	2812.0	3098.0	2870.8	1514.8
62.5°	157.3	158.1	167.6	179.5	234.3	591.0	876.2	1167.7	1189.2	778.5	383.7
65°	131.1	131.1	132.7	132.7	140.6	211.3	266.1	343.2	289.1	214.5	150.1
67.5°	105.6	106.4	108.0	108.0	105.6	105.6	114.4	125.5	134.2	166.0	138.2
70°	82.6	81.8	81.8	82.6	80.2	68.3	73.9	84.2	92.1	129.5	119.9
72.5°	64.3	65.1	64.3	61.2	55.6	40.5	43.7	54.8	58.8	81.0	81.0
75°	48.5	49.3	46.1	35.0	23.0	12.7	16.7	27.0	34.2	39.7	29.4
77.5°	6.4	6.4	4.8	4.8	4.0	4.8	4.8	6.4	9.5	9.5	7.1
80°	0.8	0.8	0.8	1.6	2.4	3.2	3.2	3.2	3.2	4.0	4.0
82.5°	0.8	0.8	0.8	0.8	2.4	2.4	3.2	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.8	1.6	2.4	2.4	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.8	1.6	2.4	2.4	2.4	3.2	3.2	3.2
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: P634997
CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4
2.5°	2532.4	2486.3	2430.7	2392.6	2338.6	2302.8	2252.0	2217.9	2188.5	2165.4	2178.1
5°	2533.2	2460.1	2346.5	2249.6	2144.0	2047.1	1943.0	1861.2	1787.3	1753.9	1772.2
7.5°	2549.1	2444.2	2270.3	2097.9	1895.3	1695.2	1507.7	1355.2	1279.7	1244.0	1255.1
10°	2580.1	2437.1	2185.3	1899.3	1570.4	1297.2	1115.3	1012.0	969.9	947.7	951.6
12.5°	2608.7	2432.3	2074.9	1638.0	1239.2	1006.5	911.9	897.6	906.4	907.2	906.4
15°	2647.6	2423.6	1938.2	1369.5	991.4	869.8	872.2	892.9	913.5	919.9	918.3
17.5°	2688.9	2410.1	1761.9	1112.1	841.2	830.1	857.9	885.7	906.4	909.5	910.3
20°	2731.8	2382.3	1560.9	908.0	771.3	799.9	830.9	851.6	866.6	871.4	873.0
22.5°	2751.7	2323.5	1329.0	761.8	724.5	762.6	785.6	812.6	817.4	799.9	803.1
25°	2741.3	2224.2	1102.6	663.3	677.6	715.7	749.9	736.4	716.5	703.8	707.8
27.5°	2708.8	2092.3	880.9	591.0	627.5	676.0	680.0	664.9	661.7	651.4	654.6
30°	2673.8	1940.6	708.6	533.0	576.7	627.5	615.6	621.2	622.0	610.1	614.0
32.5°	2652.4	1781.7	564.0	494.1	544.1	553.7	577.5	588.6	589.4	561.6	566.4
35°	2659.5	1625.3	477.4	462.3	514.0	511.6	544.9	551.3	505.2	467.1	471.1
37.5°	2717.5	1480.7	428.2	437.7	461.5	479.8	505.2	463.1	452.8	435.3	437.7
40°	2825.5	1357.6	398.8	422.6	425.8	455.2	416.2	421.8	422.6	411.5	413.9
42.5°	2951.8	1255.1	381.3	413.9	405.9	410.7	371.8	382.9	394.8	390.0	390.8
45°	3015.4	1155.0	366.2	383.7	386.1	340.8	332.0	344.0	359.1	361.4	362.2
47.5°	2959.0	1059.7	350.3	340.0	355.9	310.6	300.3	304.2	321.7	331.2	332.8
50°	*2786.6*	*950.1*	*326.5*	*301.1*	*292.3*	*278.8*	*269.3*	*270.1*	*289.9*	*306.6*	*309.8*
52.5°	2544.3	835.7	287.6	255.0	235.1	245.5	247.8	243.1	261.3	278.0	281.2
55°	2309.2	692.7	228.0	207.3	189.1	211.3	217.7	211.3	216.9	228.0	228.8
57.5°	1626.1	391.6	174.8	171.6	156.5	181.1	191.4	181.9	172.4	179.5	181.1
60°	753.8	204.9	134.2	134.2	130.3	155.7	173.2	159.7	141.4	144.6	147.0
62.5°	235.9	129.5	98.5	92.9	106.4	132.7	147.0	133.5	112.0	112.0	115.2
65°	133.5	111.2	77.8	71.5	86.6	106.4	115.2	100.9	81.8	80.2	80.2
67.5°	123.9	105.6	69.1	58.0	61.2	68.3	71.5	62.0	56.4	55.6	56.4
70°	102.5	88.2	55.6	39.7	37.3	36.5	38.1	35.7	34.2	35.0	37.3
72.5°	63.5	53.2	35.0	23.8	20.7	19.9	19.9	19.9	19.1	19.1	19.1
75°	23.0	19.9	15.9	11.9	10.3	9.5	9.5	10.3	9.5	8.7	7.9
77.5°	7.1	6.4	6.4	6.4	5.6	4.8	4.0	4.0	3.2	2.4	2.4
80°	4.0	4.0	4.0	4.0	3.2	3.2	2.4	1.6	0.8	0.8	0.0
82.5°	4.0	4.0	4.0	3.2	3.2	3.2	2.4	1.6	0.8	0.0	0.0
85°	3.2	3.2	3.2	3.2	3.2	3.2	2.4	1.6	0.8	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	2.4	1.6	0.8	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

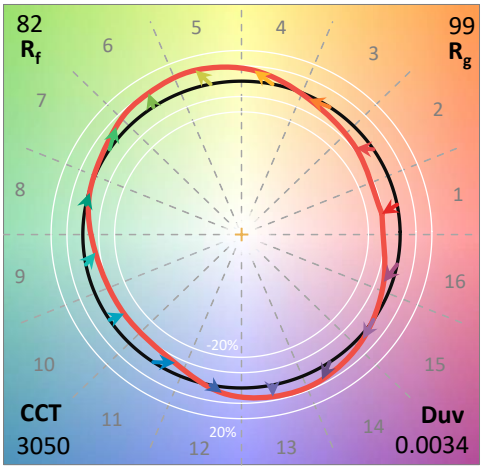
Test Information

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

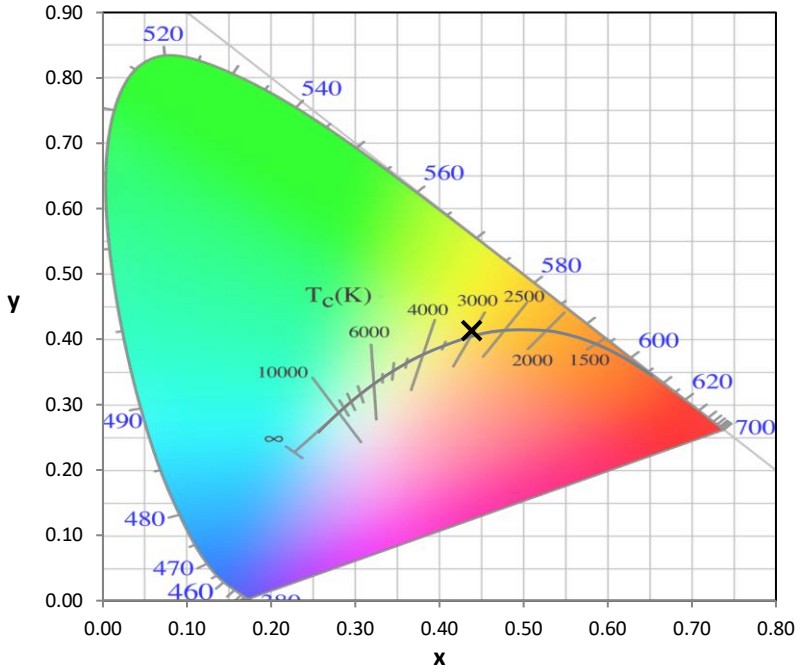
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

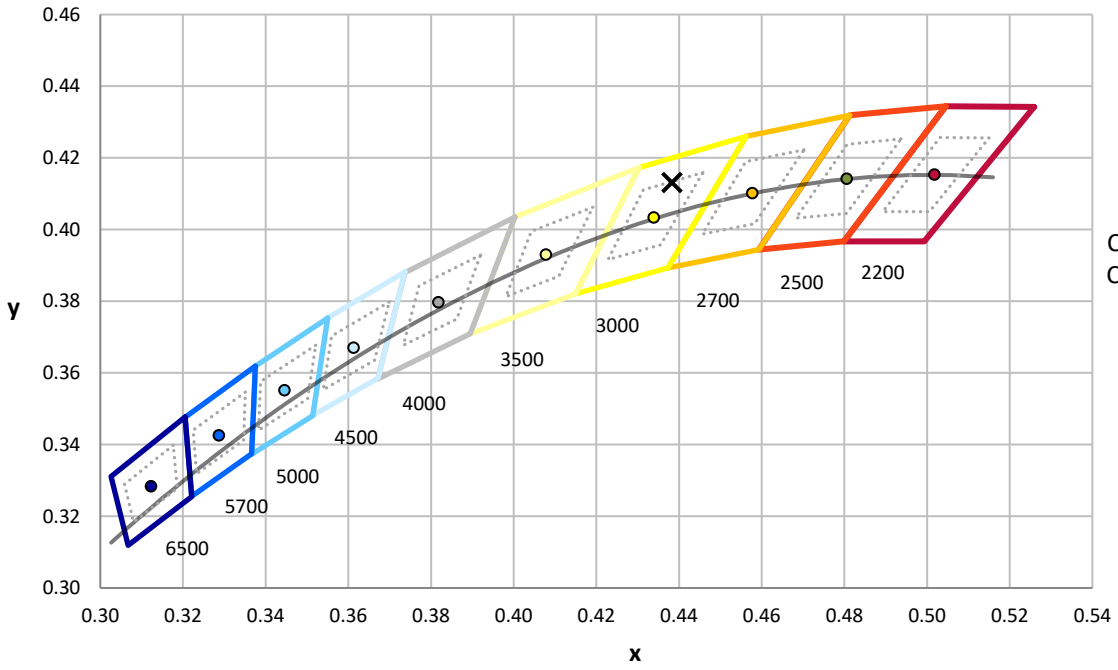
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

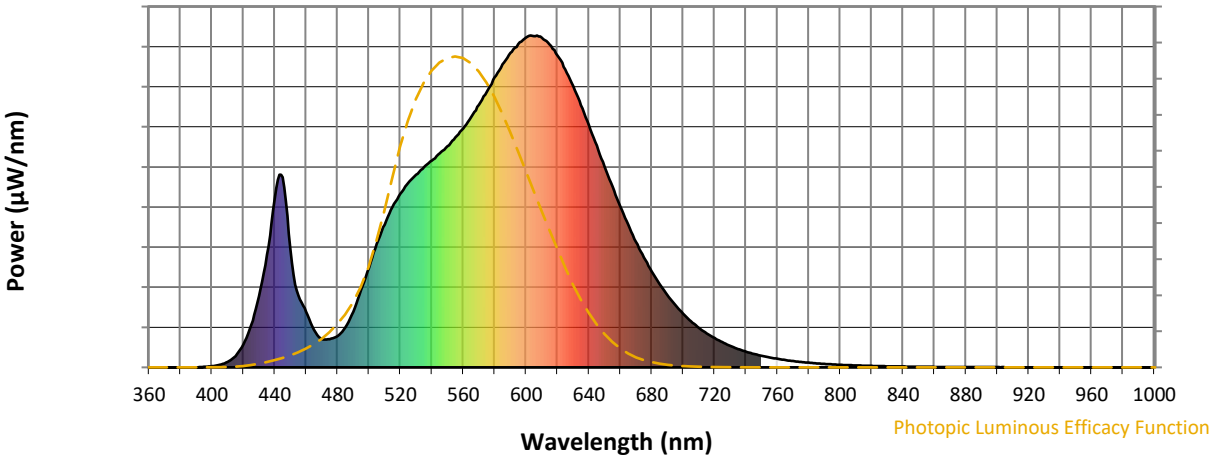


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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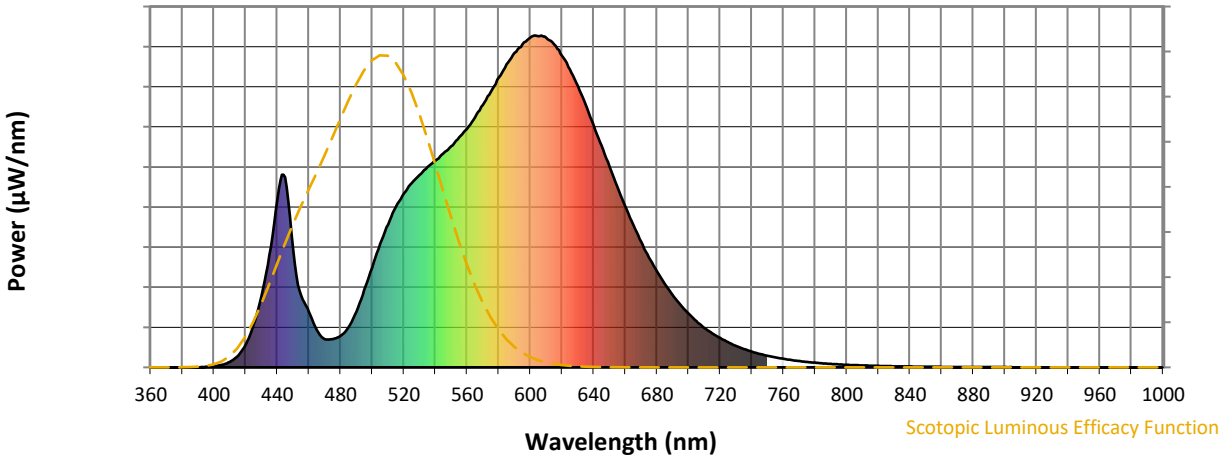
Scotopic Flux vs. Wavelength



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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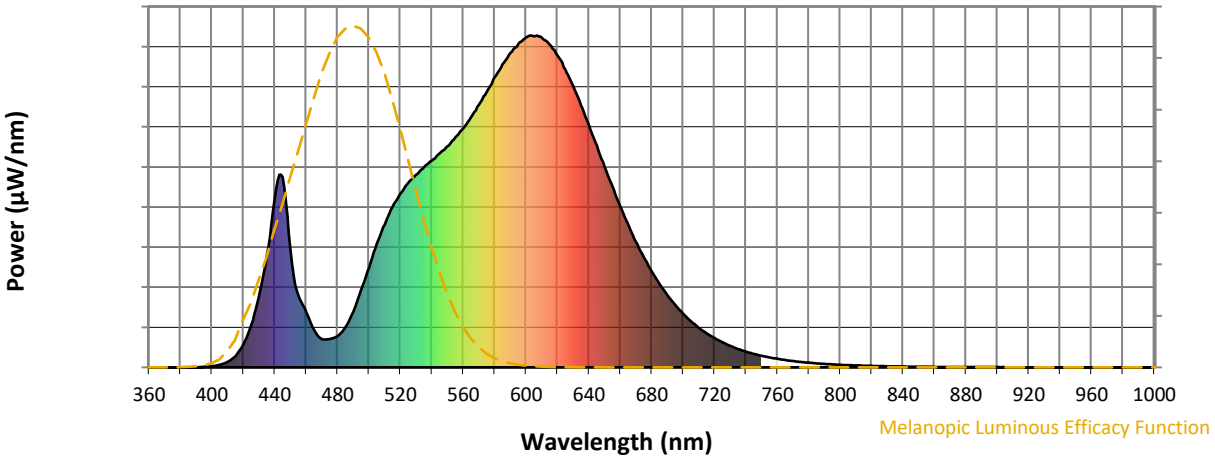
Melanopic Flux vs. Wavelength



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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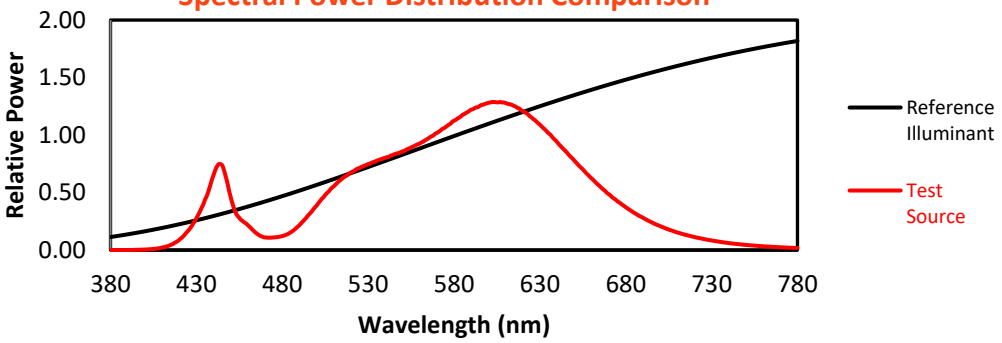
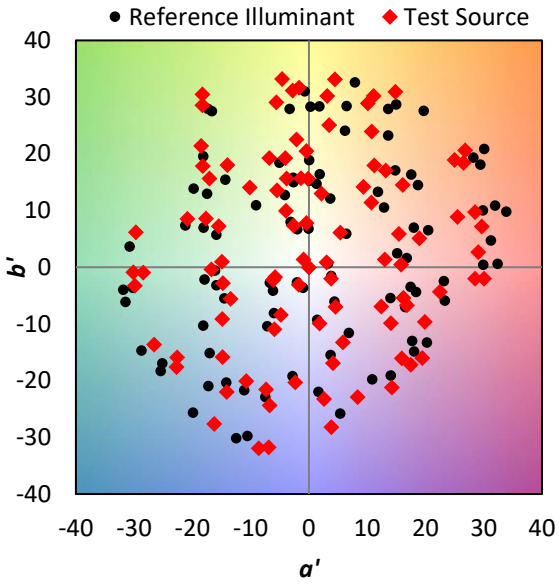
Summary

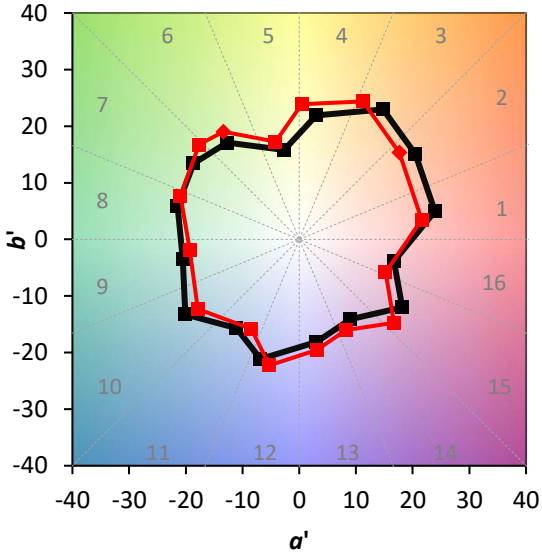
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

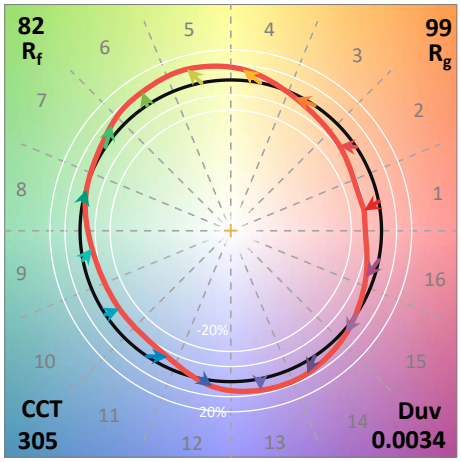
Spectral Power Distribution Comparison

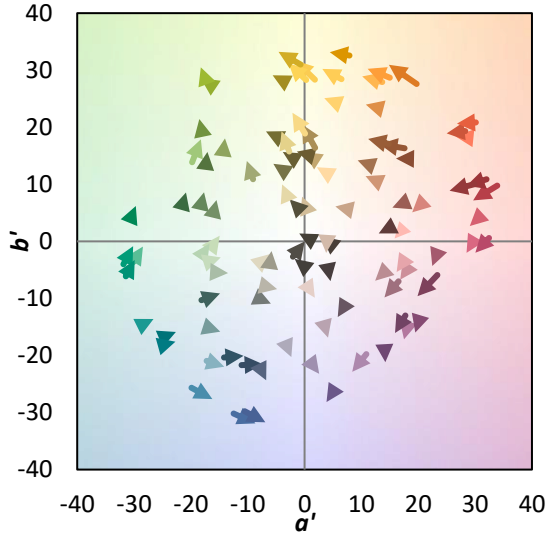


Color Vector Graphics









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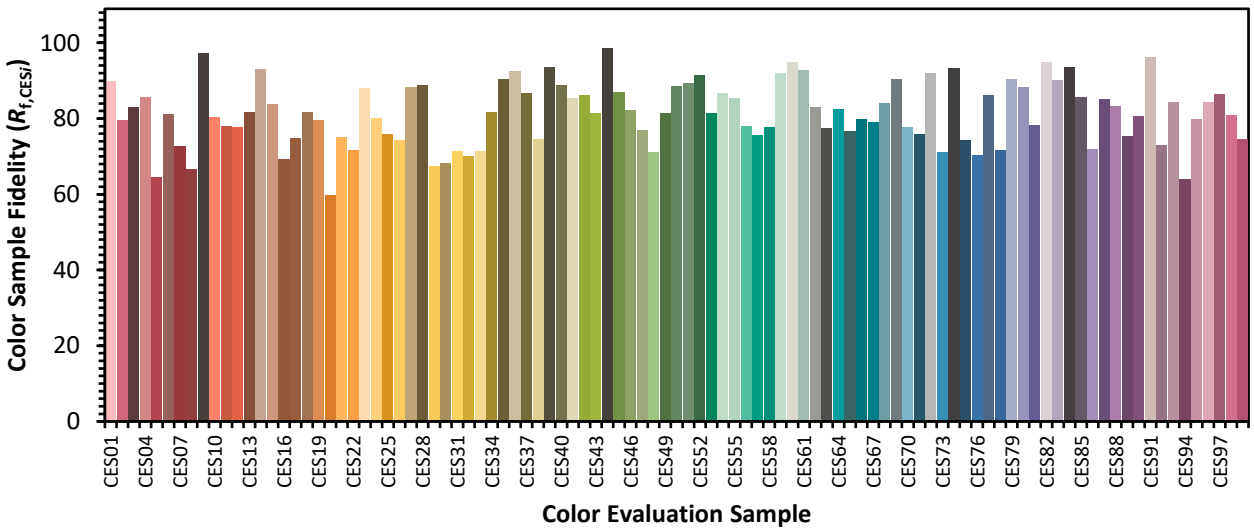
Individual Sample Fidelity Index ($R_{f,i}$)

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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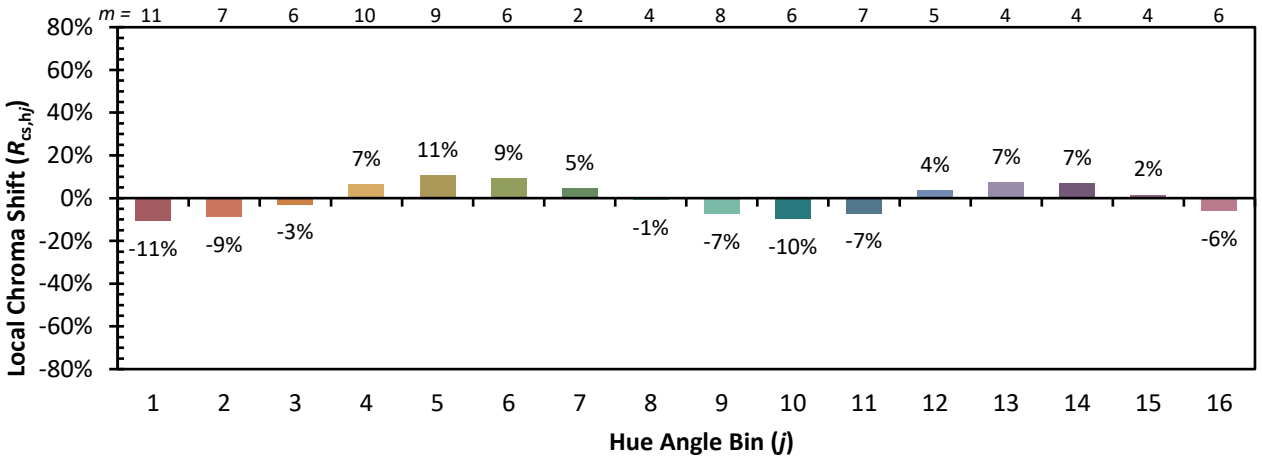
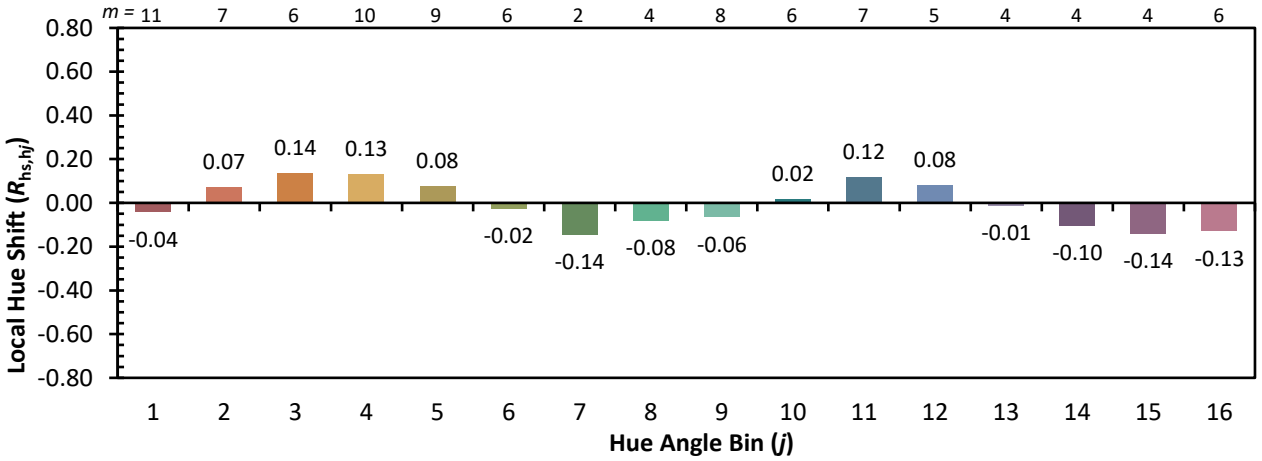
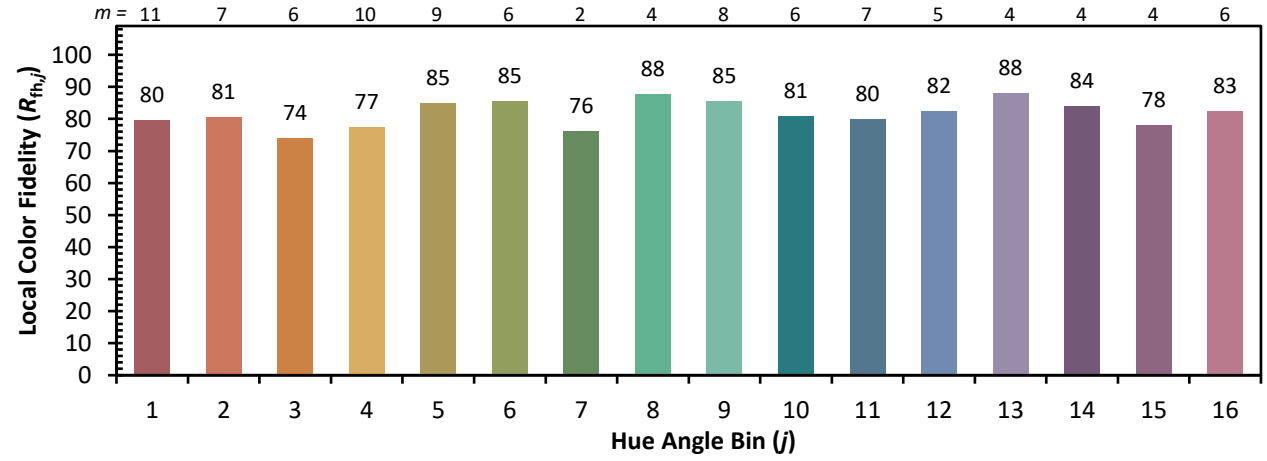
Color Rendition by Hue-Angle Bin







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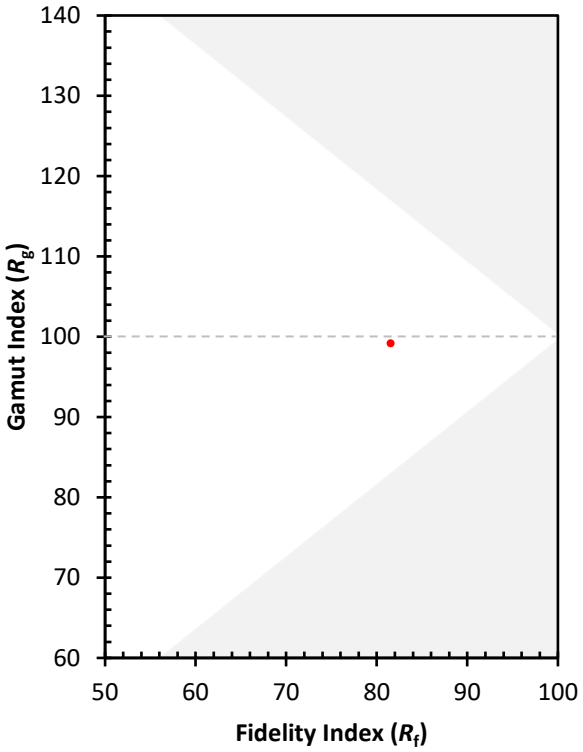
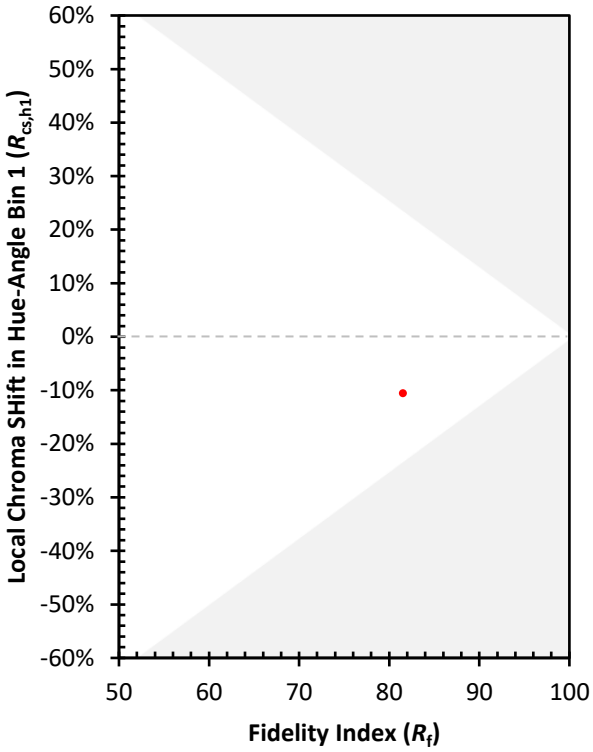
Measure Comparisons





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