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: P637970

Luminaire Tested: GWS-SA4D-830-U-AFL-W

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:	P637970
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4D-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19810.1 lumens
Efficiency:	N/A
Efficacy:	122.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	162.1
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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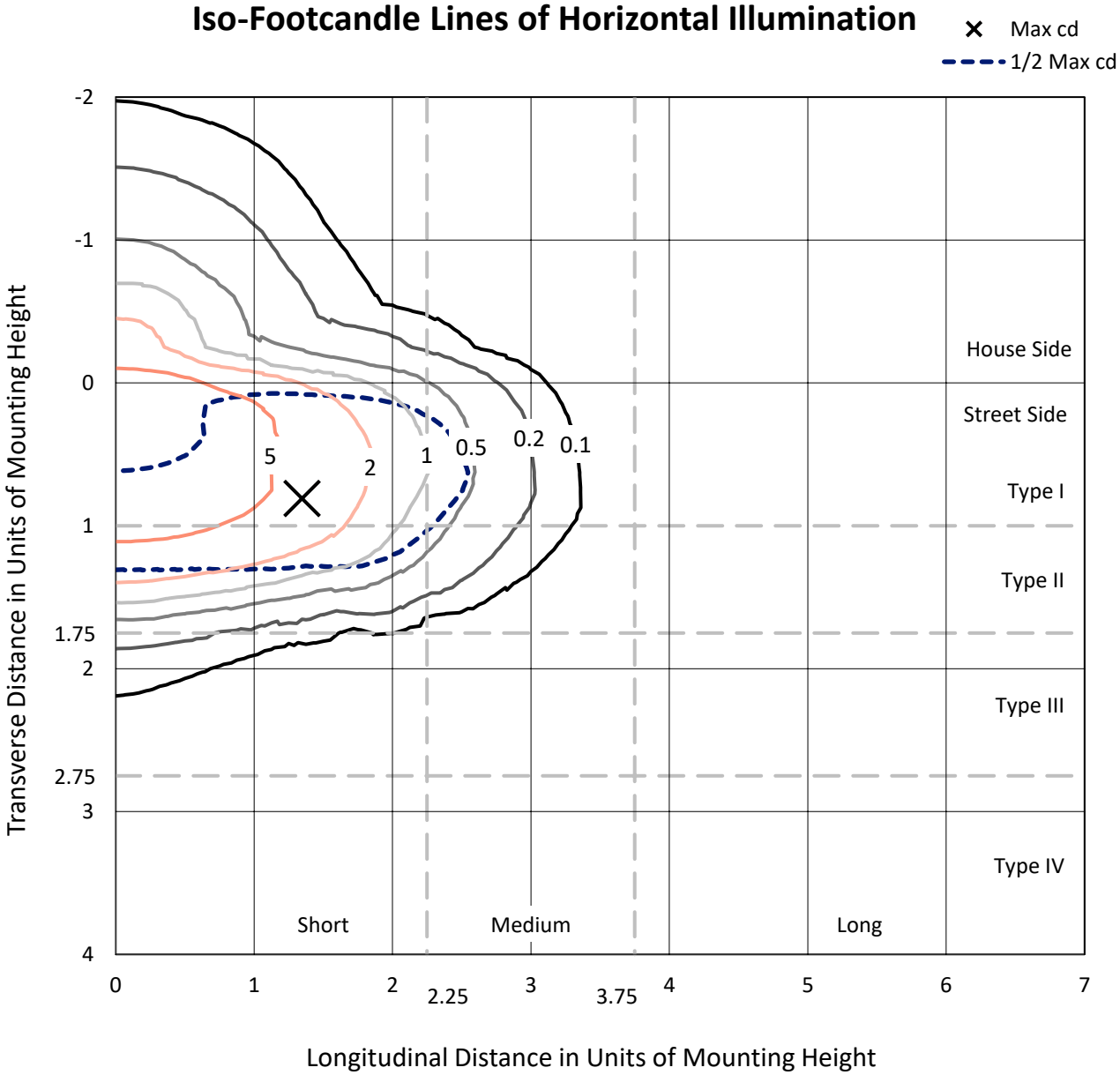
Scaled Data Report

REPORT NUMBER: P637970
CATALOG NUMBER: GWS-SA4D-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

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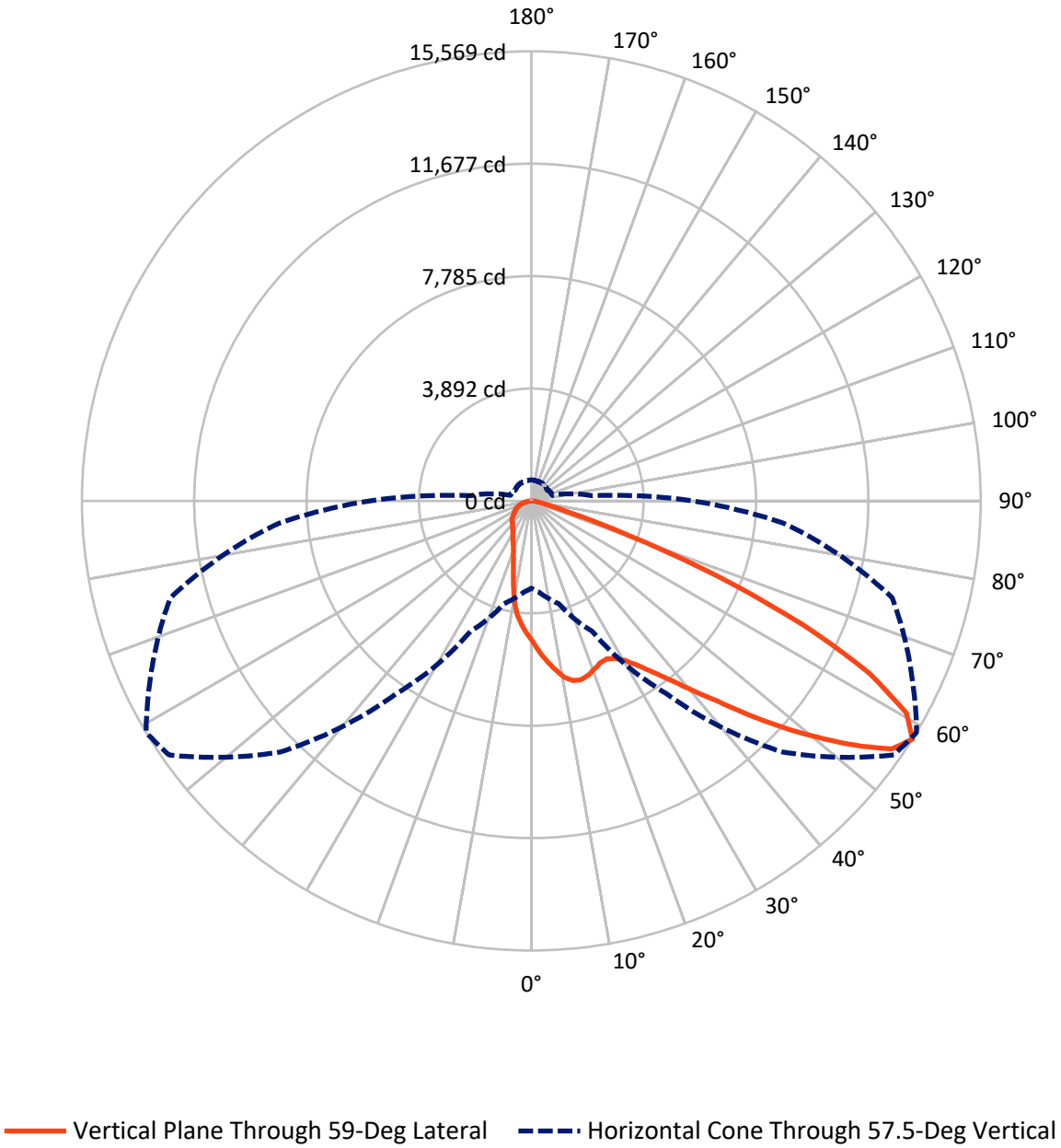
Luminous Intensity Polar Plot



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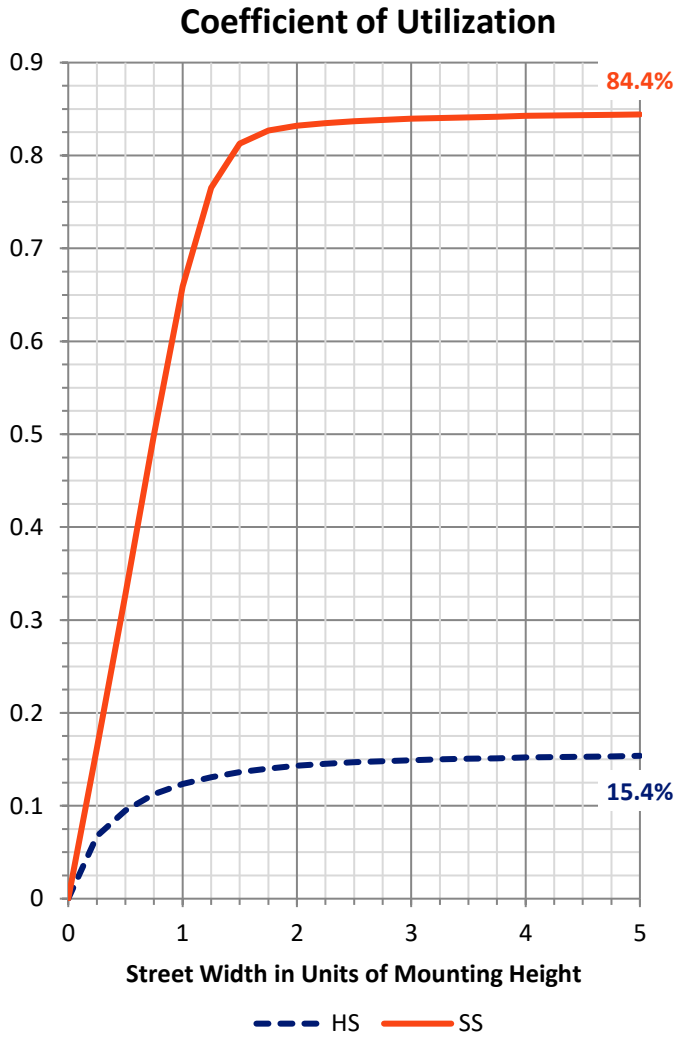
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3074.4	0.0	3074.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16735.7	0.0	16735.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	19810.1	0.0	19810.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	2.3
10°-20°	1144.2	5.8
20°-30°	1854.7	9.4
30°-40°	2983.6	15.1
40°-50°	4633.3	23.4
50°-60°	4990.6	25.2
60°-70°	2896.4	14.6
70°-80°	756.1	3.8
80°-90°	99.6	0.5
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°	19810.1	100.0
0°-180°	19810.1	100.0



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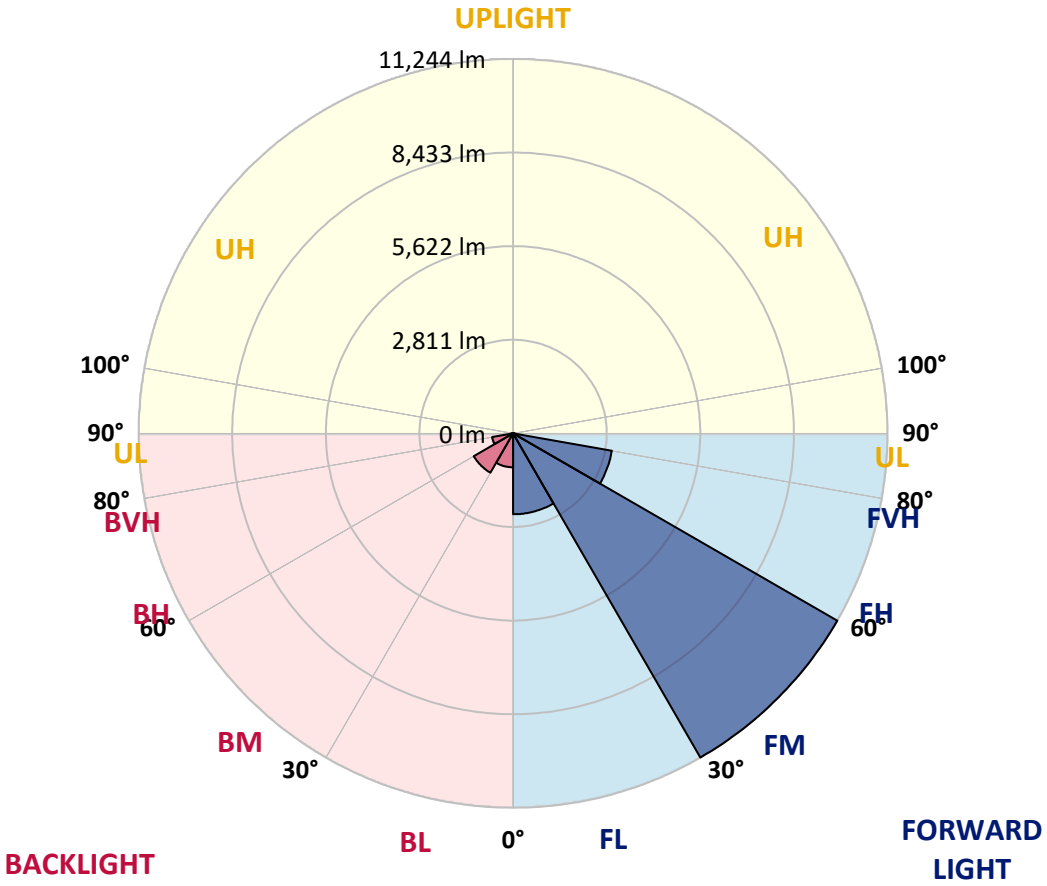
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2430.5	12.3			
FM	(30°-60°)	11244.4	56.8			
FH	(60°-80°)	3013.0	15.2			G2/5000
FVH	(80°-90°)	47.7	0.2			G1/100
BL	(0°-30°)	1020.0	5.1	B3/2500		
BM	(30°-60°)	1363.1	6.9	B2/2500		
BH	(60°-80°)	639.5	3.2	B2/1000		G2/1000
BVH	(80°-90°)	51.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P637970
CATALOG NUMBER: GWS-SA4D-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0
2.5°	5515.7	5469.6	5501.7	5444.5	5420.8	5358.1	5277.2	5222.8	5139.1	5030.3	4935.5
5°	6063.7	6031.7	6038.6	5977.3	5922.9	5818.3	5652.3	5560.3	5418.0	5199.1	4995.5
7.5°	6047.0	6084.7	6105.6	6158.6	6173.9	6164.1	6014.9	5886.6	5730.4	5401.3	5094.5
10°	5420.8	5491.9	5556.1	5737.4	5957.7	6236.7	6271.5	6194.8	6037.2	5659.3	5213.0
12.5°	4738.9	4793.3	4850.4	5068.0	5405.5	5963.3	6341.3	6388.7	6325.9	5914.5	5346.9
15°	4404.2	4429.3	4483.7	4627.3	4896.5	5515.7	6219.9	6427.7	6540.7	6185.1	5497.5
17.5°	4390.2	4401.4	4427.9	4504.6	4691.4	5169.8	6001.0	6349.6	6709.4	6471.0	5673.2
20°	4678.9	4649.6	4632.9	4631.5	4723.5	5054.0	5789.0	6224.1	6788.9	6763.8	5861.5
22.5°	5079.1	5088.9	5052.6	4963.4	4952.2	5136.3	5683.0	6097.2	6812.6	7023.2	6035.8
25°	5646.8	5695.6	5588.2	5418.0	5334.4	5374.8	5748.6	6058.2	6809.9	7239.4	6144.6
27.5°	6309.2	6346.8	6238.1	6014.9	5842.0	5744.4	5943.8	6173.9	6833.6	7426.3	6210.2
30°	7063.7	7076.2	6927.0	6692.7	6440.3	6231.1	6268.7	6412.4	6954.9	7671.7	6286.9
32.5°	7985.5	8038.5	7812.6	7441.6	7088.8	6821.0	6705.3	6797.3	7217.1	7961.8	6405.4
35°	9155.6	9173.7	8886.4	8355.1	7855.8	7484.8	7242.2	7291.0	7615.9	8367.6	6583.9
37.5°	10258.7	10276.8	9971.4	9477.7	8763.7	8256.1	7904.6	7882.3	8126.4	8940.8	6875.4
40°	10958.8	11010.4	10873.7	10564.1	9882.2	9197.4	8720.5	8643.8	8795.8	9642.3	7281.2
42.5°	11335.3	11357.7	11354.9	11395.3	10989.5	10308.9	9640.9	9487.5	9589.3	10399.6	7691.2
45°	11338.1	11393.9	11543.1	11932.2	11950.4	11526.4	10804.0	10564.1	10470.7	11162.4	8119.4
47.5°	10830.5	10890.5	11300.5	12066.1	12630.9	12727.2	12197.2	11716.1	11322.8	11819.3	8470.8
50°	9293.6	9444.3	10225.2	11579.4	12764.8	13689.4	13526.3	12873.6	12080.1	12326.9	8691.2
52.5°	7959.0	7953.4	8434.6	10204.3	12205.6	14113.4	14812.1	14064.6	12829.0	12649.1	8747.0
55°	5828.0	5860.1	6352.4	7804.2	10713.3	13703.4	15519.2	15160.7	13688.0	12820.6	8724.6
57.5°	3022.1	3181.1	3685.9	4980.1	8140.3	12292.0	15330.9	15569.4	14561.1	12941.9	8753.9
60°	1527.1	1496.4	1677.7	2377.8	4716.6	9600.5	14170.6	14930.6	14718.6	13036.8	8772.1
62.5°	1019.5	1011.1	960.9	1101.7	1927.3	5685.8	12080.1	13145.5	13623.9	12813.6	8540.6
65°	882.8	866.0	774.0	768.4	935.8	2358.3	8854.3	10334.0	11260.0	11822.1	7986.9
67.5°	794.9	769.8	676.4	630.4	672.2	1036.2	4989.9	6931.2	8314.6	9997.9	6773.6
70°	709.9	697.3	603.9	536.9	532.7	631.8	1838.1	3577.2	5087.5	6821.0	4952.2
72.5°	635.9	613.6	534.1	470.0	437.9	447.7	797.7	1377.9	2633.0	4254.9	2962.1
75°	550.9	534.1	464.4	400.3	361.2	327.7	486.7	637.3	1200.8	2022.2	1398.8
77.5°	425.4	414.2	366.8	318.0	295.7	244.1	295.7	401.6	555.1	852.1	728.0
80°	246.8	253.8	273.3	248.2	217.6	174.3	192.5	231.5	333.3	461.6	412.8
82.5°	124.1	132.5	177.1	143.6	129.7	101.8	114.4	136.7	174.3	255.2	161.8
85°	9.8	9.8	32.1	36.3	44.6	36.3	46.0	55.8	79.5	101.8	54.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.0	12.6	23.7	15.3
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: P637970
CATALOG NUMBER: GWS-SA4D-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0	4863.0
2.5°	4871.4	4800.2	4715.2	4645.4	4538.0	4480.9	4408.3	4319.1	4282.8	4266.1	4256.3
5°	4881.1	4755.6	4574.3	4406.9	4221.5	4075.0	3911.9	3741.7	3644.1	3620.4	3603.7
7.5°	4917.4	4741.7	4453.0	4176.8	3832.4	3513.0	3202.0	2893.8	2736.2	2676.2	2670.7
10°	4967.6	4736.1	4330.2	3871.4	3289.9	2785.0	2421.0	2179.8	2078.0	2044.5	2033.3
12.5°	5030.3	4731.9	4168.5	3447.5	2663.7	2186.7	1978.9	1939.9	1953.8	1951.1	1951.1
15°	5109.8	4737.5	3973.2	2967.7	2154.7	1898.1	1902.2	1948.3	1991.5	1998.5	1998.5
17.5°	5196.3	4731.9	3690.1	2486.6	1849.2	1829.7	1893.9	1958.0	1997.1	2002.7	2002.7
20°	5289.7	4705.4	3333.1	2033.3	1715.4	1786.5	1856.2	1906.4	1930.1	1935.7	1935.7
22.5°	5345.5	4630.1	2945.4	1720.9	1630.3	1718.2	1764.2	1815.8	1818.6	1773.9	1772.5
25°	5337.1	4489.2	2503.3	1520.1	1539.6	1616.3	1674.9	1638.7	1594.0	1568.9	1564.7
27.5°	5284.2	4277.2	2052.9	1368.1	1432.3	1518.7	1500.6	1469.9	1458.8	1430.9	1428.1
30°	5217.2	4016.5	1648.4	1249.6	1320.7	1400.2	1372.3	1369.5	1358.3	1327.7	1327.7
32.5°	5153.1	3747.3	1343.0	1161.7	1249.6	1255.1	1294.2	1297.0	1291.4	1238.4	1232.8
35°	5134.9	3478.1	1136.6	1092.0	1179.8	1177.0	1232.8	1231.4	1135.2	1061.3	1059.9
37.5°	5189.3	3204.8	1013.9	1034.8	1083.6	1119.9	1164.5	1083.6	1051.5	1006.9	1004.1
40°	5305.1	2952.4	951.1	1001.3	1022.2	1075.2	1005.5	1011.1	1002.7	969.2	965.1
42.5°	5458.5	2737.6	916.3	990.2	987.4	1001.3	924.6	946.9	959.5	934.4	930.2
45°	5606.3	2550.7	898.1	948.3	962.3	881.4	866.0	887.0	906.5	896.7	892.5
47.5°	5715.1	2389.0	888.4	891.2	930.2	840.9	815.8	825.6	849.3	853.5	852.1
50°	5748.6	2250.9	877.2	843.7	835.4	800.5	781.0	778.2	806.1	825.6	828.4
52.5°	5684.4	2128.2	847.9	801.9	761.5	767.0	760.1	746.1	774.0	800.5	803.3
55°	5589.6	2058.4	801.9	761.5	714.0	736.4	739.1	726.6	744.7	762.8	762.8
57.5°	*5596.5*	*2098.9*	*757.3*	*723.8*	*672.2*	*701.5*	*716.8*	*711.2*	*711.2*	*725.2*	*726.6*
60°	5642.6	2157.5	728.0	676.4	630.4	661.0	695.9	690.3	677.8	695.9	695.9
62.5°	5510.1	2079.4	708.5	630.4	585.7	622.0	663.8	661.0	647.1	676.4	679.2
65°	5119.6	1870.2	686.1	573.2	541.1	582.9	619.2	629.0	616.4	655.5	662.4
67.5°	4291.2	1573.1	642.9	518.8	496.5	535.5	570.4	584.3	574.6	620.6	626.2
70°	3199.2	1273.3	574.6	458.8	442.1	477.0	509.0	514.6	516.0	570.4	576.0
72.5°	2040.3	990.2	483.9	391.9	379.3	405.8	429.5	451.9	461.6	513.2	511.8
75°	1138.0	736.4	389.1	331.9	309.6	330.5	358.4	384.9	412.8	488.1	496.5
77.5°	655.5	517.4	308.2	266.4	239.9	262.2	285.9	323.5	407.2	472.8	464.4
80°	369.6	336.1	232.9	195.2	178.5	195.2	213.4	284.5	320.8	348.7	352.8
82.5°	172.9	188.3	159.0	119.9	119.9	131.1	147.8	220.3	242.7	198.0	172.9
85°	62.8	85.1	78.1	61.4	54.4	53.0	92.0	125.5	78.1	69.7	60.0
87.5°	16.7	23.7	22.3	15.3	8.4	7.0	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

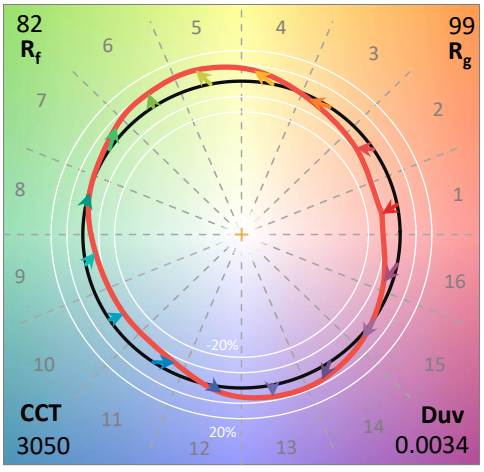
Test Information

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

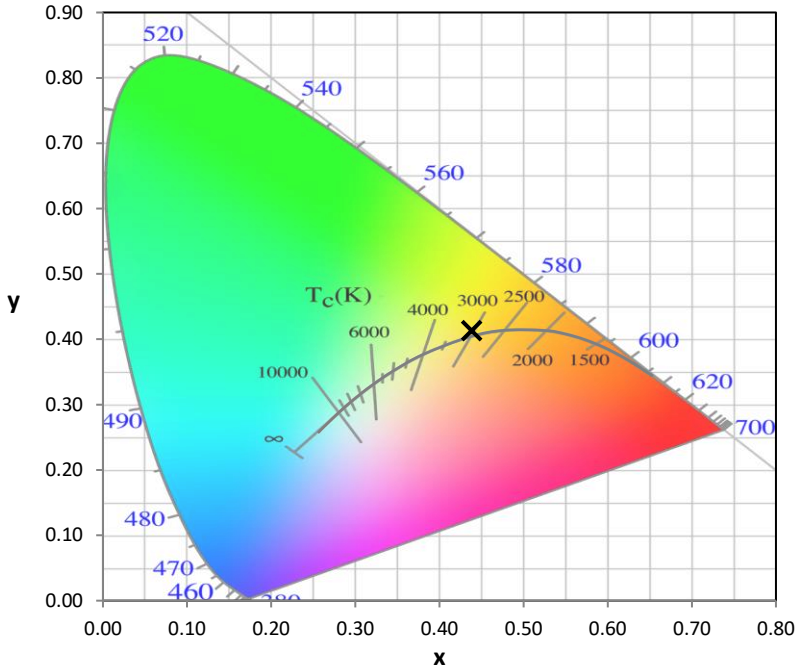
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

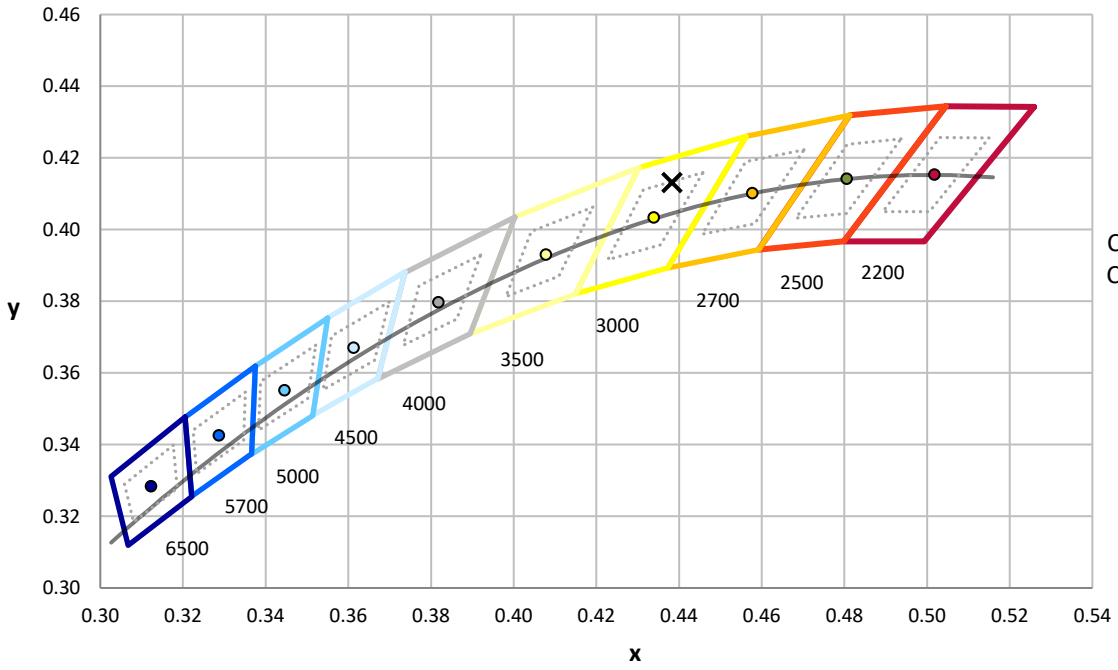
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

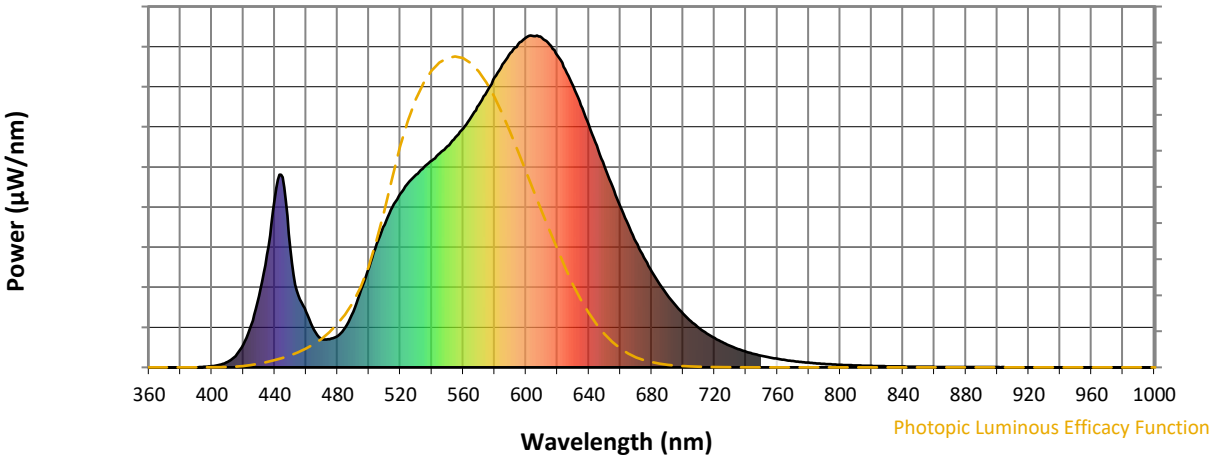


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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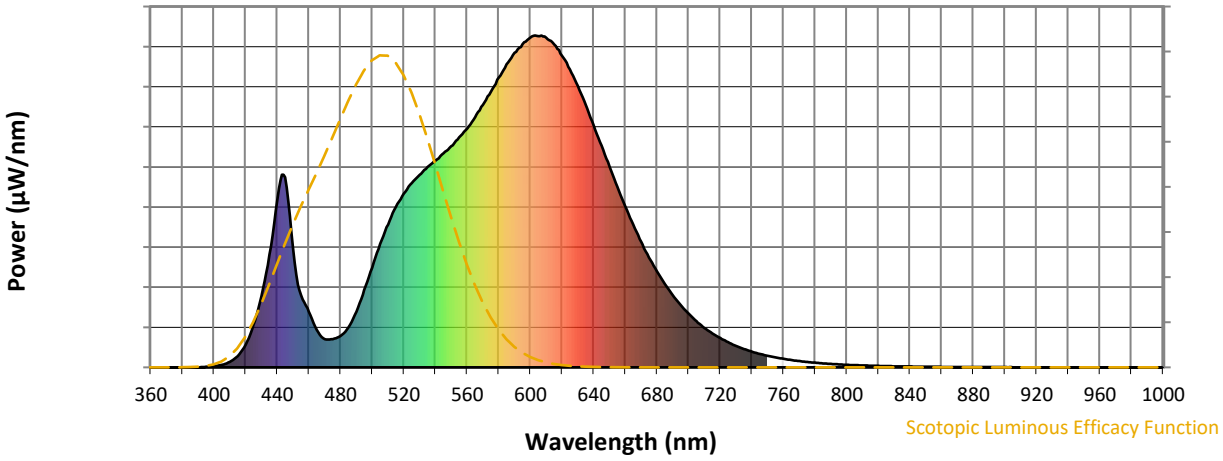
Scotopic Flux vs. Wavelength



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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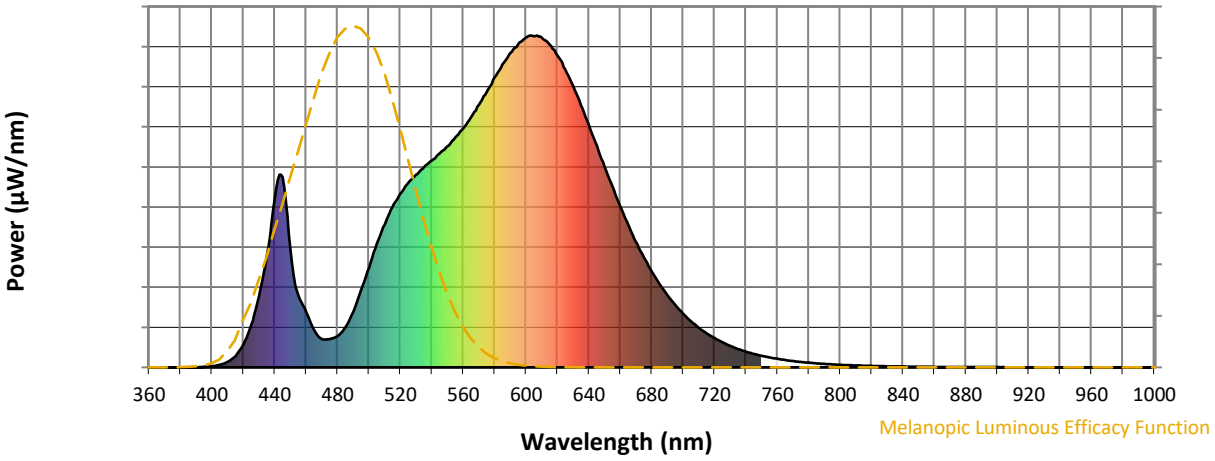
Melanopic Flux vs. Wavelength



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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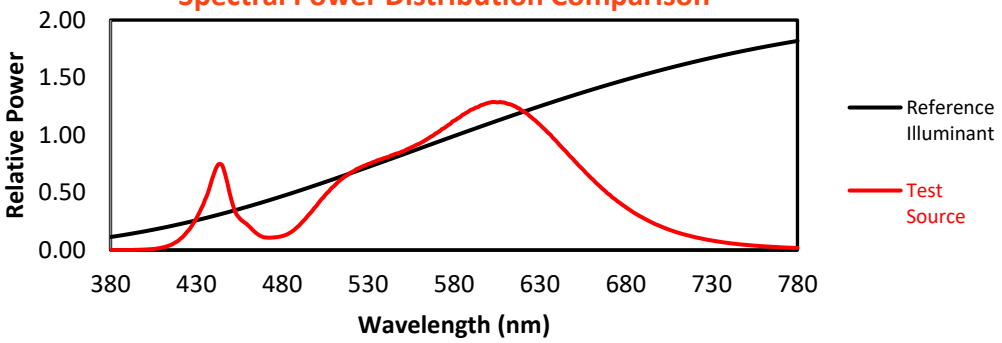
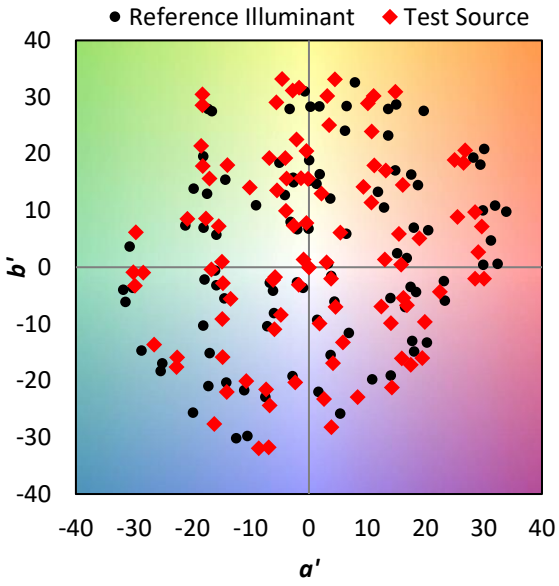
Summary

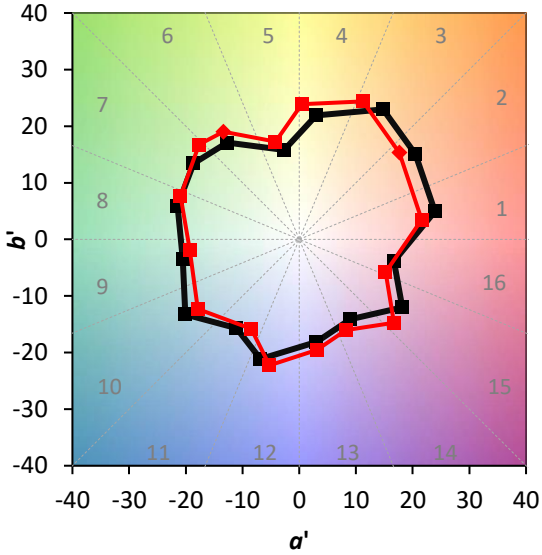
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

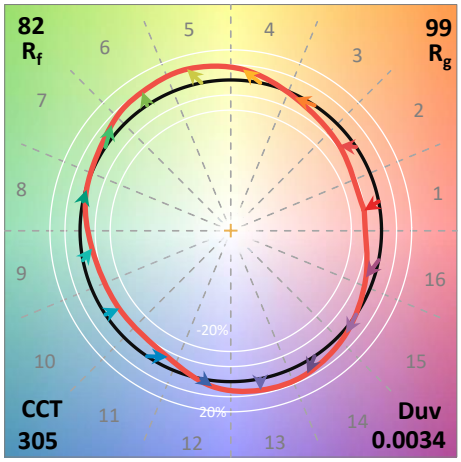
Spectral Power Distribution Comparison

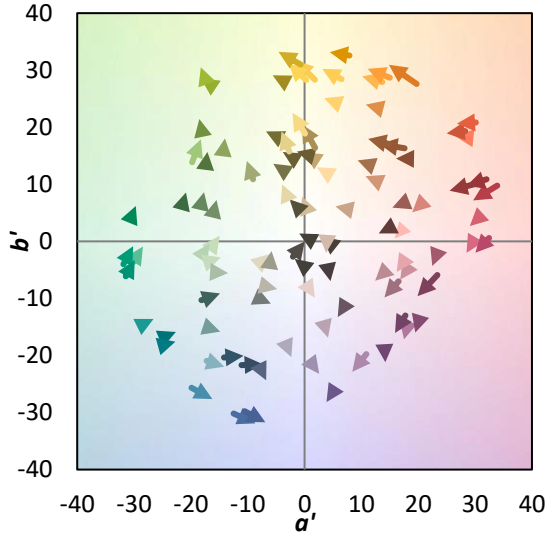


Color Vector Graphics









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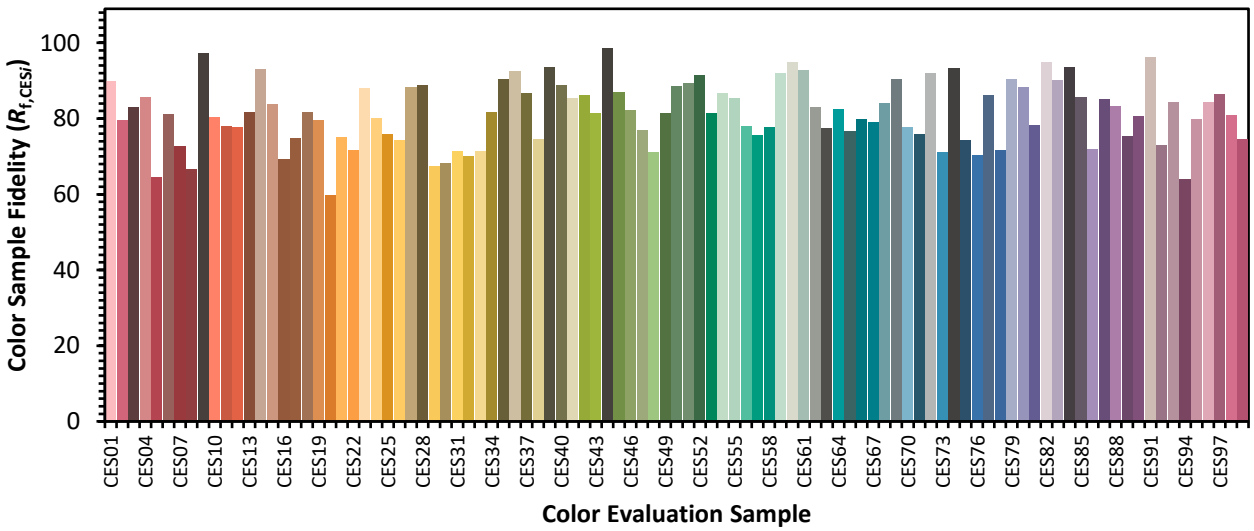
Individual Sample Fidelity Index ($R_{f,i}$)

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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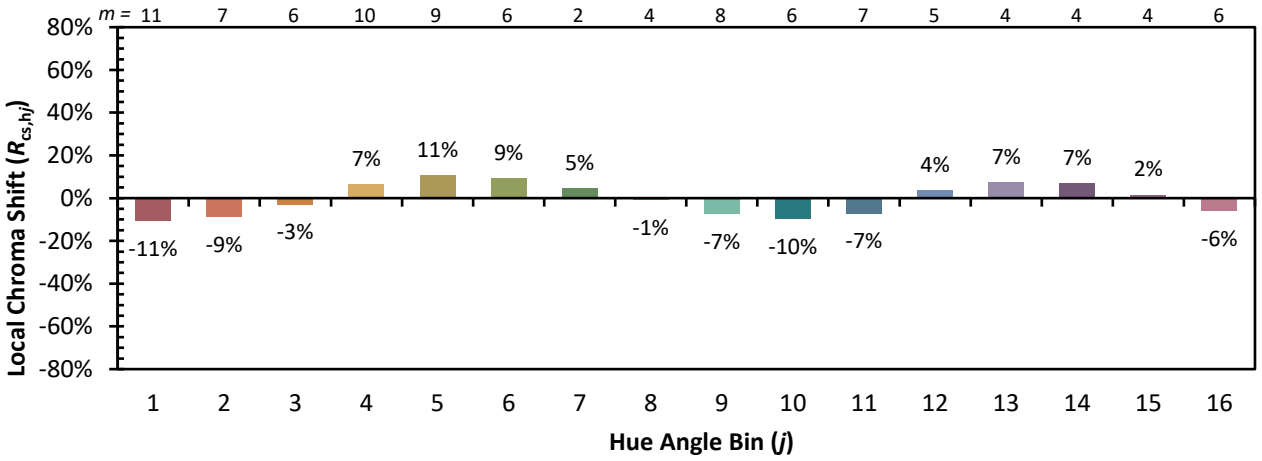
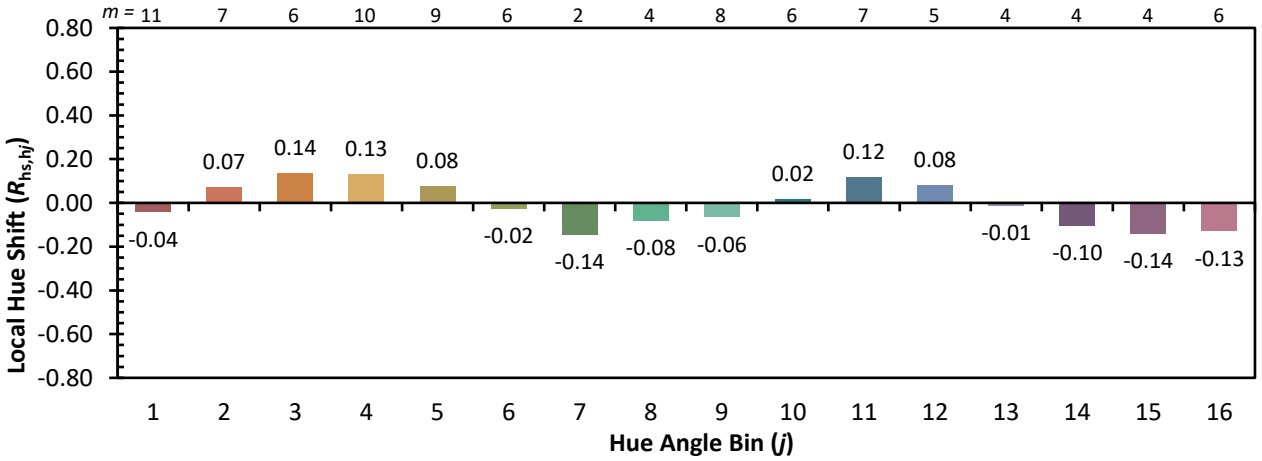
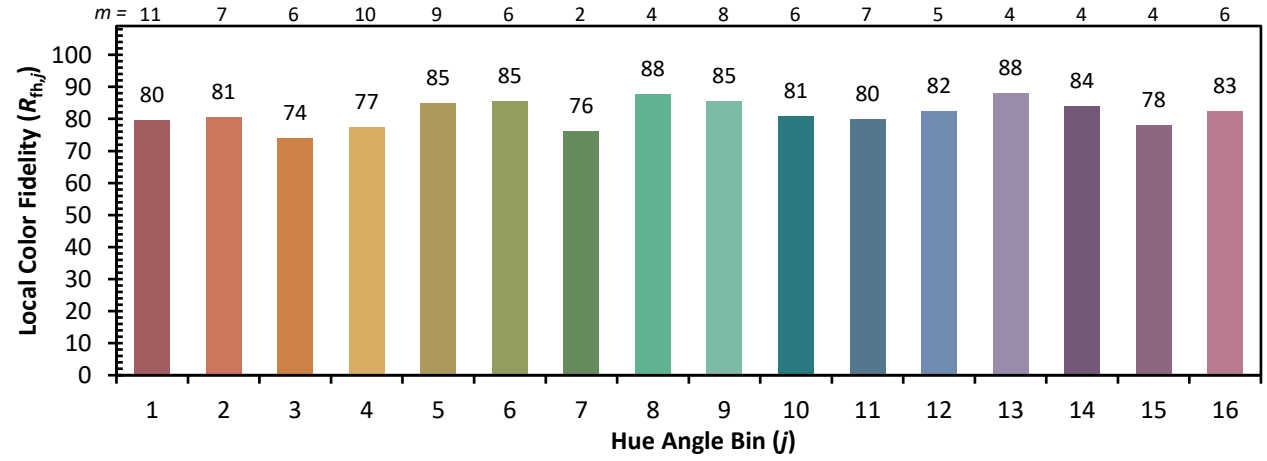
Color Rendition by Hue-Angle Bin







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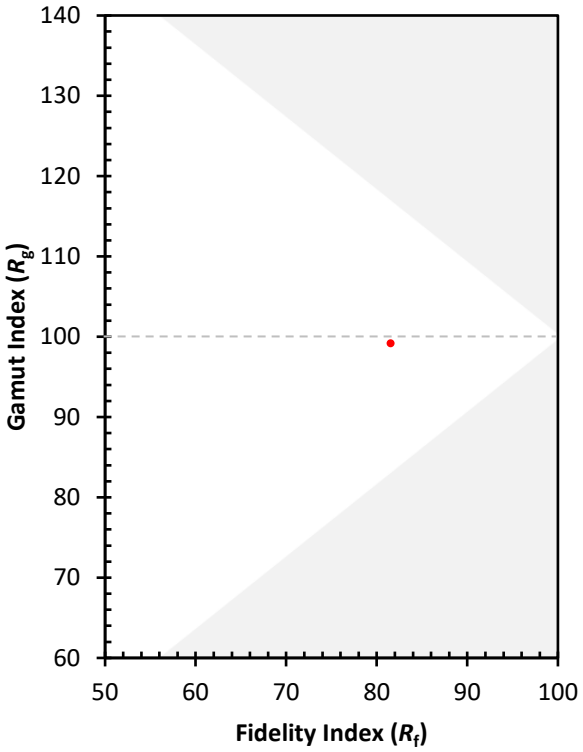
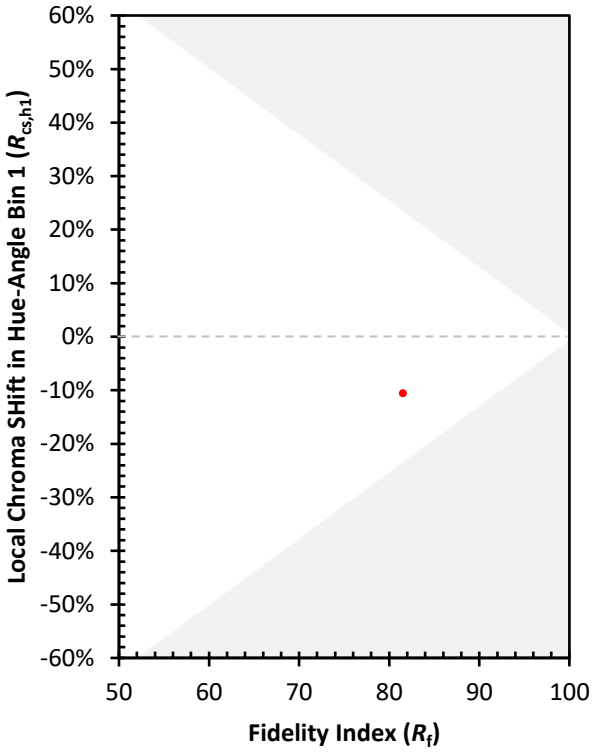
Measure Comparisons





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