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: P635027

Luminaire Tested: GWS-SA3C-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:	P635027
	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-SA3C-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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:	7428.3 lumens
Efficiency:	N/A
Efficacy:	79.9 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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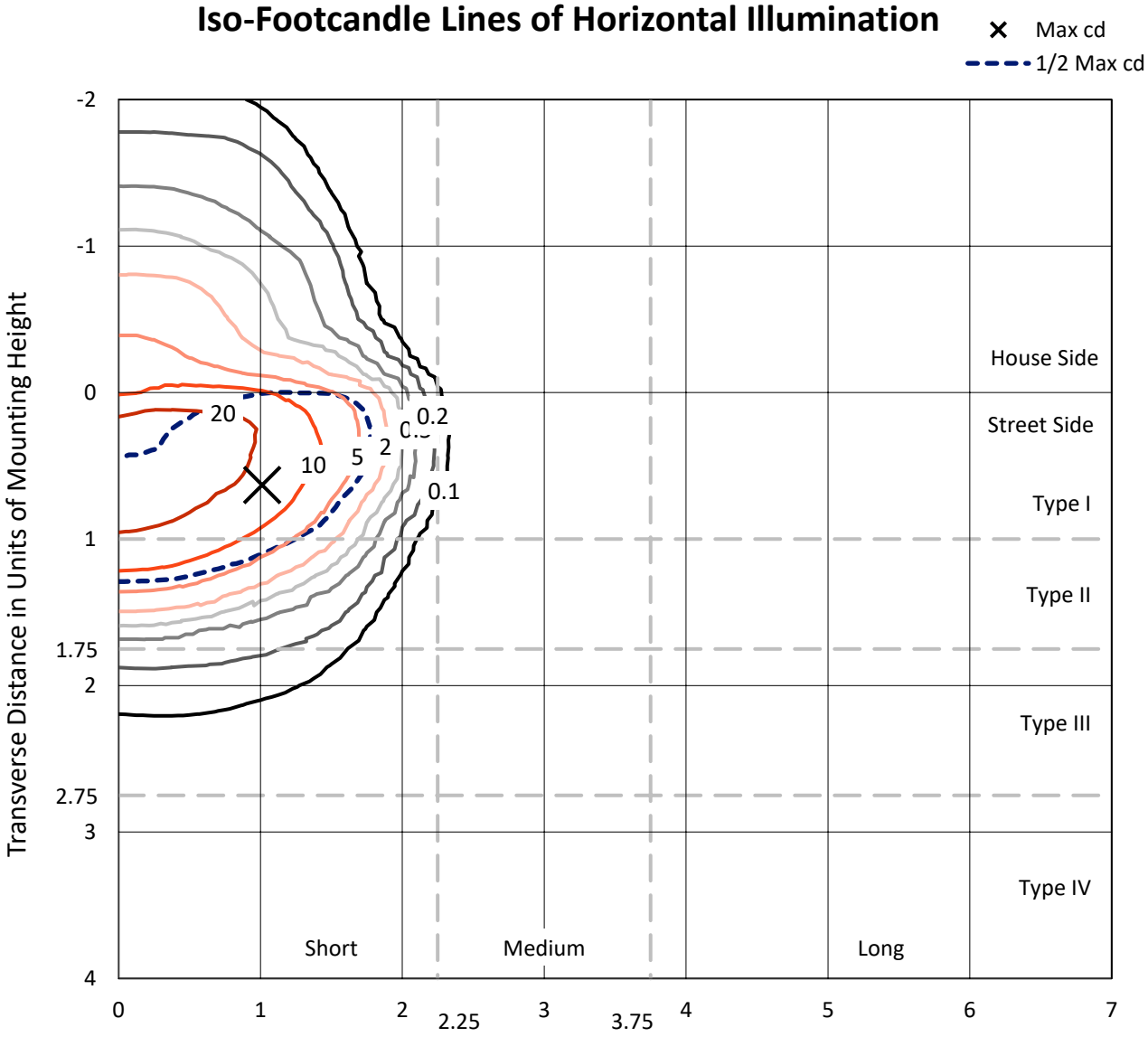
REPORT NUMBER: P635027
CATALOG NUMBER: GWS-SA3C-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 27.3 fc
Type II - Short - N/A

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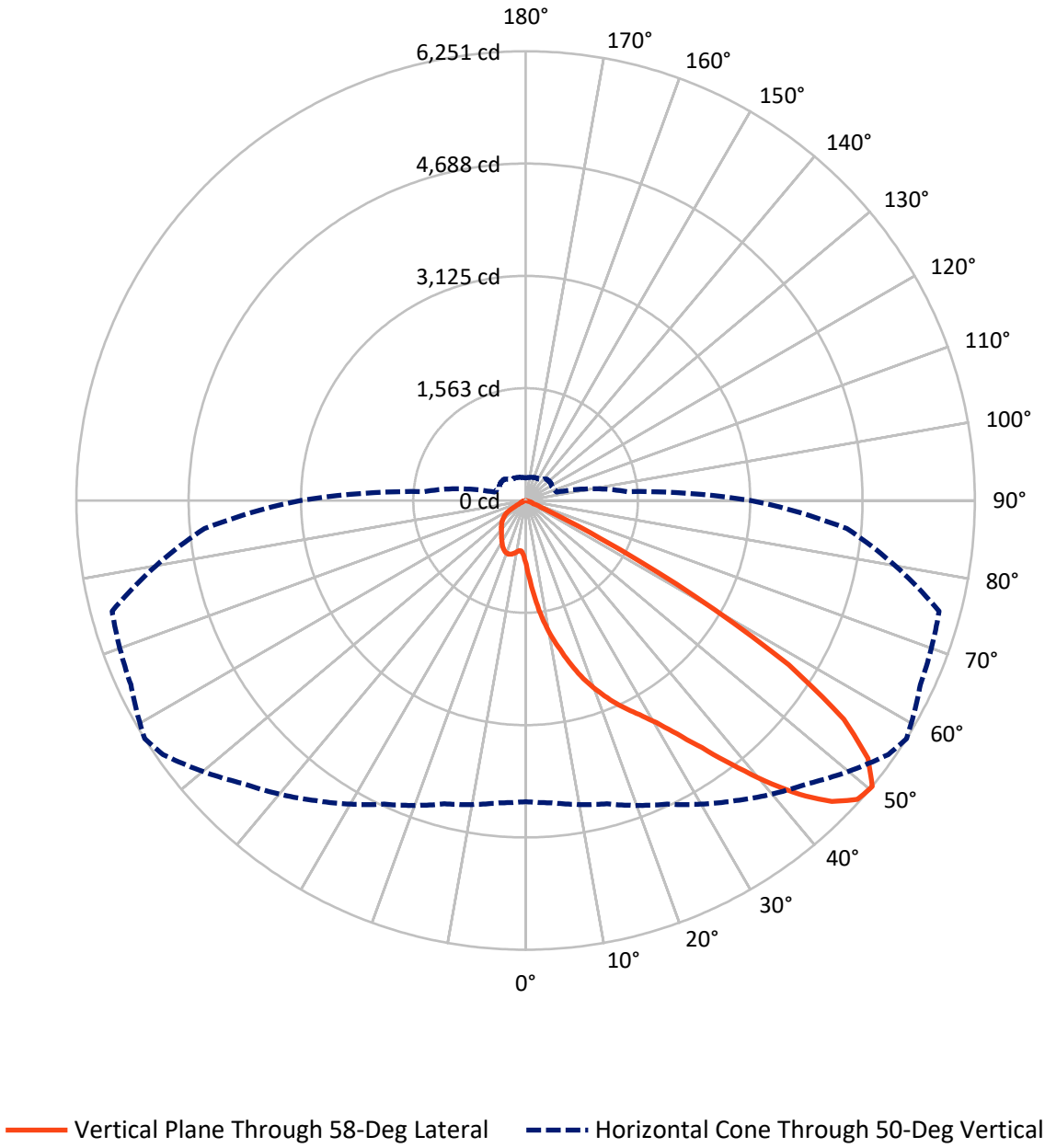
Luminous Intensity Polar Plot



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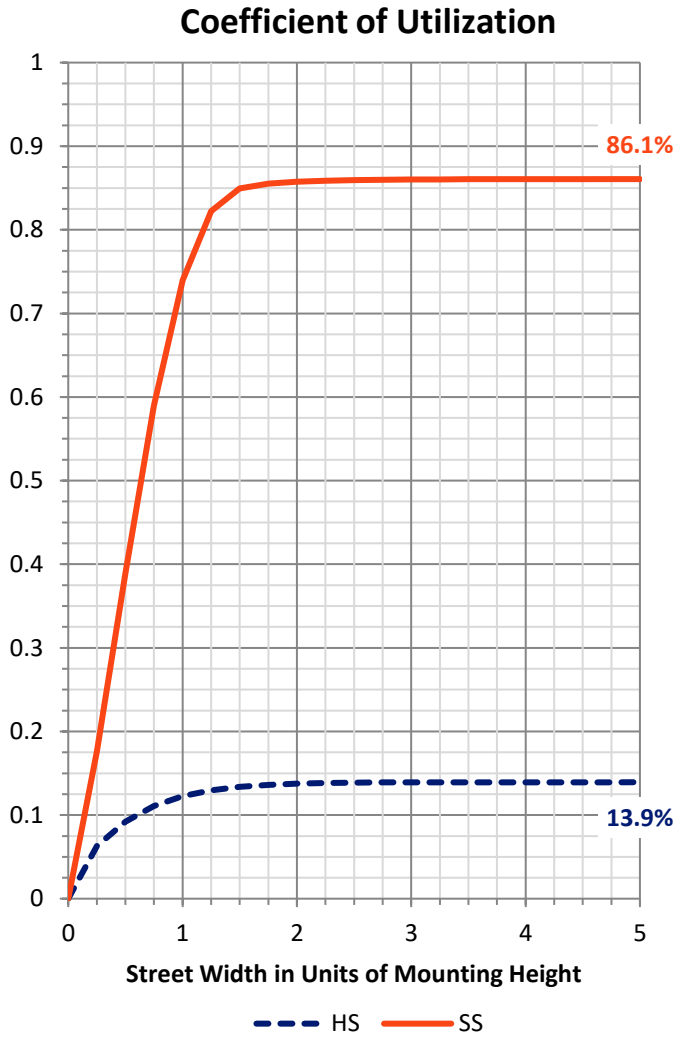
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.4	0.0	1040.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6387.9	0.0	6387.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	7428.3	0.0	7428.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.5
10°-20°	435.2	5.9
20°-30°	880.5	11.9
30°-40°	1557.8	21.0
40°-50°	2270.9	30.6
50°-60°	1820.2	24.5
60°-70°	327.9	4.4
70°-80°	25.8	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°	7428.3	100.0
0°-180°	7428.3	100.0



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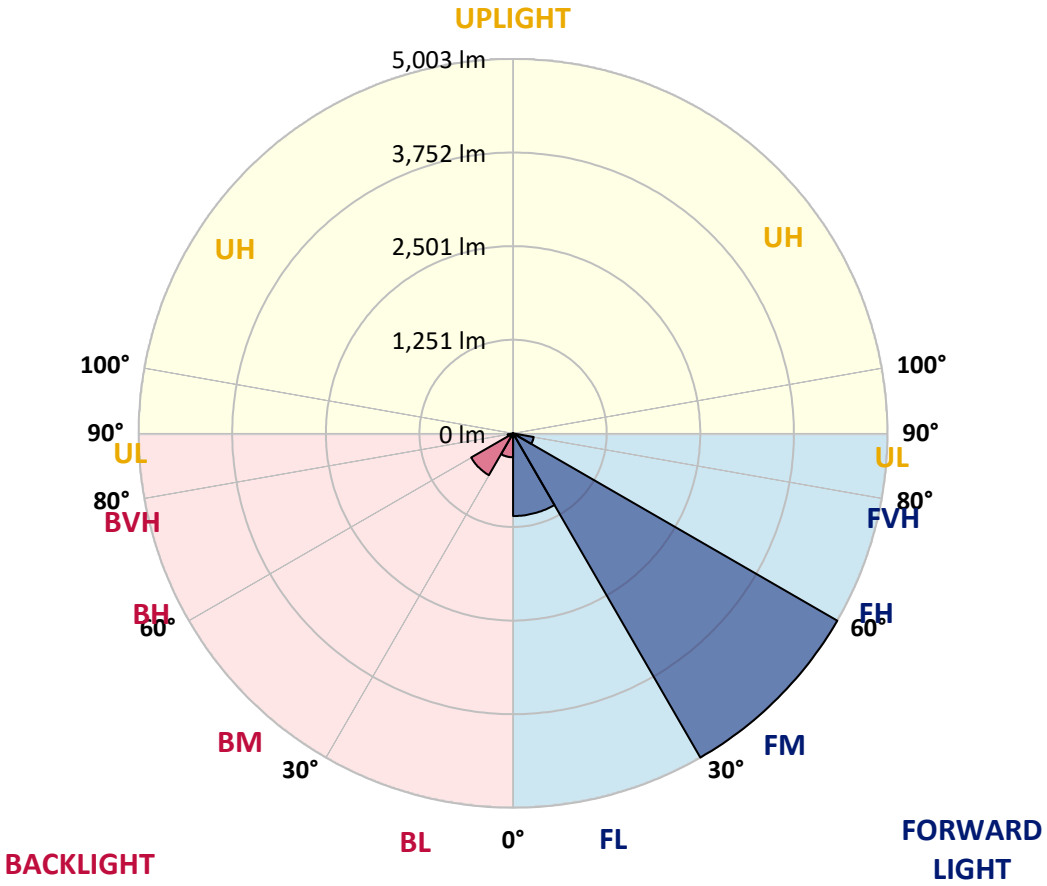
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1105.3	14.9			
FM	(30°-60°)	5002.7	67.3			
FH	(60°-80°)	279.8	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	320.3	4.3	B1/500		
BM	(30°-60°)	646.2	8.7	B1/1000		
BH	(60°-80°)	73.9	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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REPORT NUMBER: P635027
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	*887.3*	887.3	887.3	887.3
2.5°	1313.1	1292.4	1280.5	1271.0	1228.9	1162.1	1118.5	*1095.4*	1057.3	992.9	937.3
5°	1713.4	1698.3	1670.5	1651.5	1597.5	1502.9	1405.2	*1366.3*	1279.7	1134.3	1004.1
7.5°	1978.7	1967.6	1957.3	1931.9	1881.0	1795.2	1687.2	*1646.7*	1513.3	1306.7	1093.0
10°	2182.9	2174.2	2162.2	2161.4	2121.7	2044.7	1939.0	*1896.9*	1752.4	1494.2	1197.9
12.5°	2362.4	2355.3	2352.9	2375.1	2349.7	2292.5	2178.1	*2125.7*	1972.4	1685.6	1313.9
15°	2485.5	2484.0	2494.3	2538.0	2552.3	2526.1	2429.9	*2373.5*	2197.2	1877.9	1441.8
17.5°	2541.9	2546.7	2566.6	2642.0	2705.6	2727.8	2653.9	*2606.3*	2420.4	2072.5	1578.4
20°	2638.1	2636.5	2648.4	2719.9	2797.7	2877.2	2854.9	*2814.4*	2646.0	2278.2	1730.1
22.5°	2908.9	2885.9	2860.5	2871.6	2899.4	2992.3	3033.7	*3013.0*	2878.8	2489.5	1886.6
25°	3325.2	3301.4	3219.5	3140.1	3087.7	3129.8	3186.2	*3196.5*	3109.9	2706.4	2050.2
27.5°	3766.8	3745.4	3653.3	3534.1	3384.0	3310.9	3353.0	*3373.6*	3337.1	2964.5	2224.2
30°	4180.7	4152.1	4051.2	3903.5	3729.5	3617.5	3569.8	*3584.1*	3605.6	3270.4	2428.4
32.5°	4539.8	4518.3	4397.6	4241.9	4074.3	3957.5	3846.3	*3870.1*	3922.5	3644.5	2689.7
35°	4844.0	4832.9	4705.0	4550.1	4372.9	4313.4	4218.0	*4222.8*	4275.2	4096.5	3008.2
37.5°	5108.5	5089.5	4973.5	4829.7	4689.1	4679.6	4653.3	*4655.7*	4682.7	4623.2	3374.4
40°	5275.3	5257.9	5175.2	5086.3	4986.2	4987.8	5123.6	*5133.9*	5103.0	5140.3	3761.3
42.5°	5338.1	5325.4	5280.9	5281.7	5271.4	5318.2	5573.2	*5592.3*	5481.1	5546.2	4091.7
45°	5229.3	5223.7	5226.9	5341.3	5465.2	5609.8	5941.0	*5974.4*	5817.1	5815.5	4349.9
47.5°	4878.2	4867.0	4960.0	5154.6	5441.4	5722.6	6163.4	*6215.1*	6052.2	5969.6	4512.0
50°	*4190.2*	*4222.0*	*4369.0*	*4661.3*	*5097.4*	*5567.7*	*6161.0*	*6250.8*	*6061.0*	*5956.1*	*4484.9*
52.5°	3035.2	3028.9	3350.6	3752.5	4283.2	5072.0	5833.8	*5964.8*	5848.9	5823.4	4424.6
55°	1651.5	1709.5	1926.3	2458.5	3121.0	4133.8	5086.3	*5372.2*	5506.5	5775.0	4533.4
57.5°	606.9	632.3	768.1	1144.7	1652.3	2570.5	3885.2	*4316.5*	4731.2	5639.9	4515.1
60°	244.7	249.4	303.4	421.0	694.3	1308.3	2330.6	*2713.5*	3104.4	4317.3	3465.0
62.5°	177.9	184.3	205.7	246.3	351.1	571.9	1004.9	*1168.5*	1277.3	2138.4	1707.1
65°	143.8	148.5	166.0	184.3	232.0	307.4	324.1	*312.2*	310.6	552.9	391.6
67.5°	119.2	123.9	136.6	149.3	166.8	153.3	111.2	*116.8*	95.3	94.5	77.1
70°	87.4	92.9	105.6	119.2	100.1	41.3	64.3	*95.3*	72.3	60.4	58.8
72.5°	65.9	69.9	81.8	77.8	29.4	15.9	42.9	*69.1*	55.6	44.5	43.7
75°	49.3	51.6	41.3	12.7	3.2	4.0	15.9	*28.6*	31.0	25.4	25.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	*2.4*	3.2	4.0	4.8
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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CATALOG NUMBER: GWS-SA3C-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	905.6	872.2	824.5	784.8	754.6	725.2	703.0	680.8	680.0	668.8	666.5
5°	943.7	883.3	795.9	733.2	695.1	672.0	656.1	648.2	644.2	640.3	638.7
7.5°	998.5	911.9	791.2	724.5	692.7	677.6	666.5	661.7	659.3	656.1	655.3
10°	1066.0	953.2	808.7	741.1	713.3	699.0	687.1	680.0	676.0	670.4	668.8
12.5°	1147.1	1004.1	836.5	768.9	739.5	720.5	704.6	694.3	688.7	681.6	680.0
15°	1234.4	1058.9	867.4	794.4	759.4	734.8	714.9	699.0	688.7	680.0	677.6
17.5°	1325.0	1114.5	895.2	811.8	768.9	739.5	711.0	689.5	676.8	665.7	662.5
20°	1426.7	1171.7	913.5	815.0	765.8	726.8	693.5	666.5	653.8	638.7	635.5
22.5°	1533.1	1224.9	921.5	807.9	748.3	703.0	667.3	639.5	621.2	605.3	600.5
25°	1636.4	1272.6	917.5	788.0	722.1	669.6	633.1	604.5	584.6	568.8	564.8
27.5°	1746.0	1312.3	903.2	758.6	686.3	633.1	598.2	573.5	555.3	537.8	533.8
30°	1869.1	1348.8	880.1	722.9	644.2	595.8	568.8	552.1	532.2	513.9	508.4
32.5°	2017.7	1381.4	846.8	680.0	606.9	563.2	548.1	535.4	512.4	493.3	489.3
35°	2187.7	1408.4	804.7	635.5	570.3	542.5	539.4	522.7	492.5	470.3	465.5
37.5°	2384.7	1434.6	754.6	591.8	543.3	533.0	533.8	505.2	468.7	441.7	438.5
40°	2596.8	1460.8	699.0	553.7	518.7	527.5	520.3	479.8	420.2	394.0	390.8
42.5°	2817.6	1489.4	642.6	517.9	498.1	506.0	495.7	429.0	386.1	372.6	371.0
45°	3017.0	1523.6	581.5	482.2	477.4	475.0	457.6	388.4	370.2	360.6	359.8
47.5°	3160.7	1518.0	516.3	448.0	455.2	447.2	394.0	369.4	354.3	341.6	338.4
50°	*3134.5*	*1421.1*	*448.8*	*409.9*	*426.6*	*419.4*	*354.3*	*347.1*	*333.6*	*320.1*	*315.4*
52.5°	3067.8	1289.2	390.0	369.4	395.6	378.9	327.3	320.1	308.2	290.7	285.2
55°	3103.6	1165.3	344.0	336.8	363.8	313.8	297.1	286.0	273.3	254.2	251.8
57.5°	2988.4	950.8	276.4	281.2	321.7	267.7	260.5	243.1	221.6	208.9	207.3
60°	2068.5	510.8	173.2	178.7	232.7	224.8	233.5	217.7	191.4	179.5	177.1
62.5°	950.1	204.9	94.5	90.6	122.3	152.5	200.2	198.6	166.0	147.0	145.4
65°	230.4	93.7	67.5	63.5	69.1	91.4	130.3	156.5	134.2	112.0	109.6
67.5°	74.7	76.3	62.0	58.0	61.2	68.3	77.8	86.6	85.8	78.6	77.1
70°	59.6	69.1	57.2	52.4	52.4	54.8	52.4	42.1	36.5	39.7	41.3
72.5°	44.5	52.4	45.3	40.5	38.9	38.1	32.6	23.8	16.7	15.1	14.3
75°	26.2	29.4	27.8	23.8	22.2	19.9	15.9	10.3	5.6	4.0	2.4
77.5°	4.8	5.6	6.4	4.8	4.0	3.2	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	0.8	0.8	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

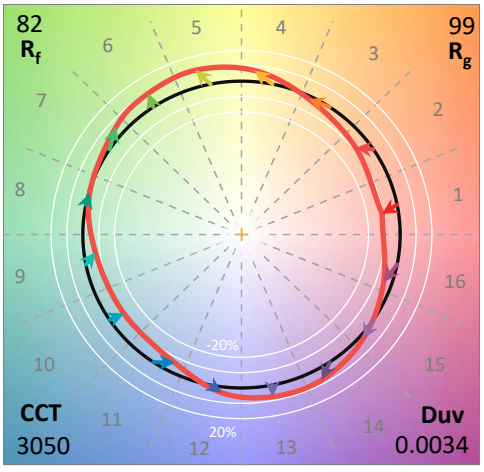
Test Information

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

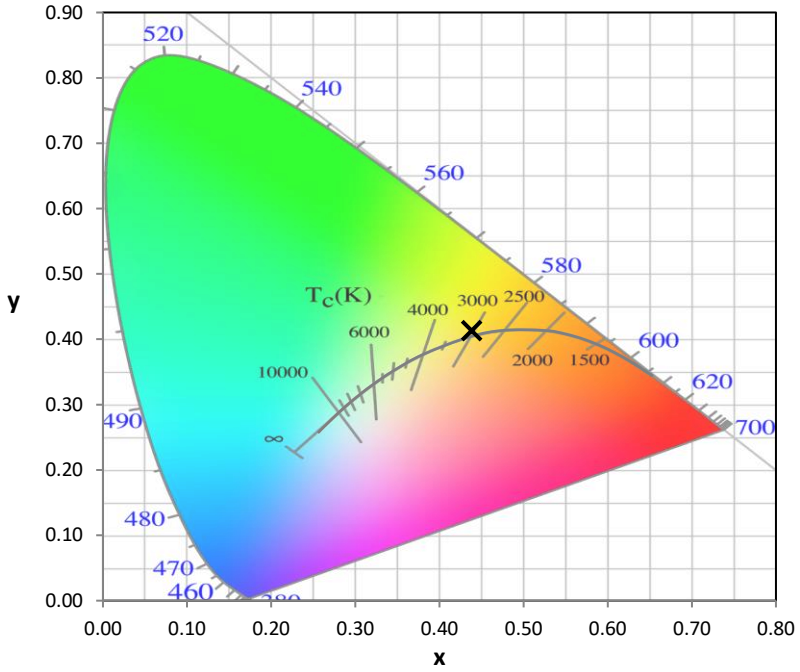
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

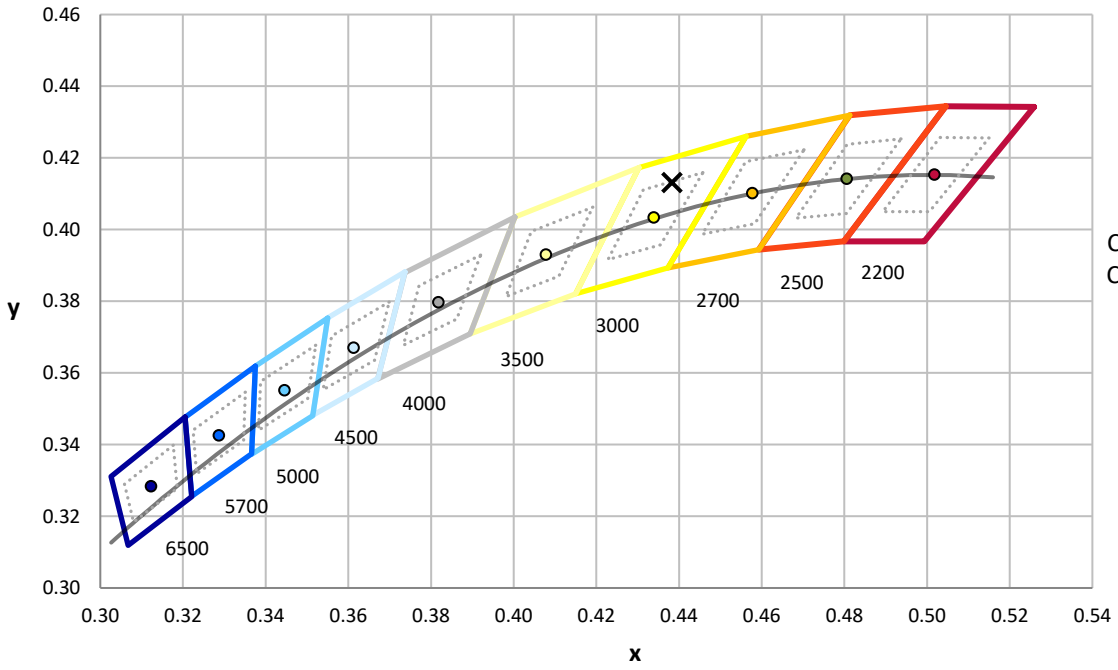
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

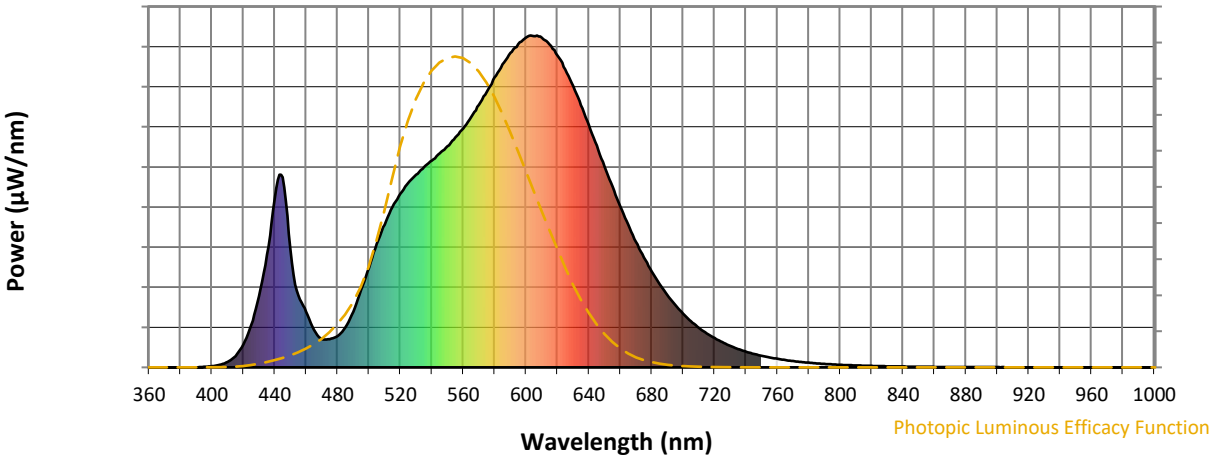


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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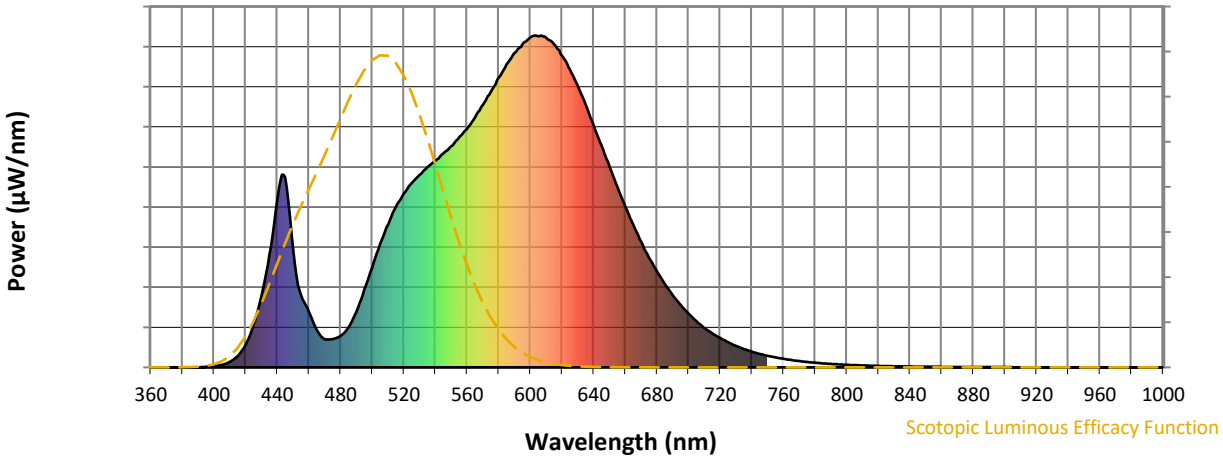
Scotopic Flux vs. Wavelength



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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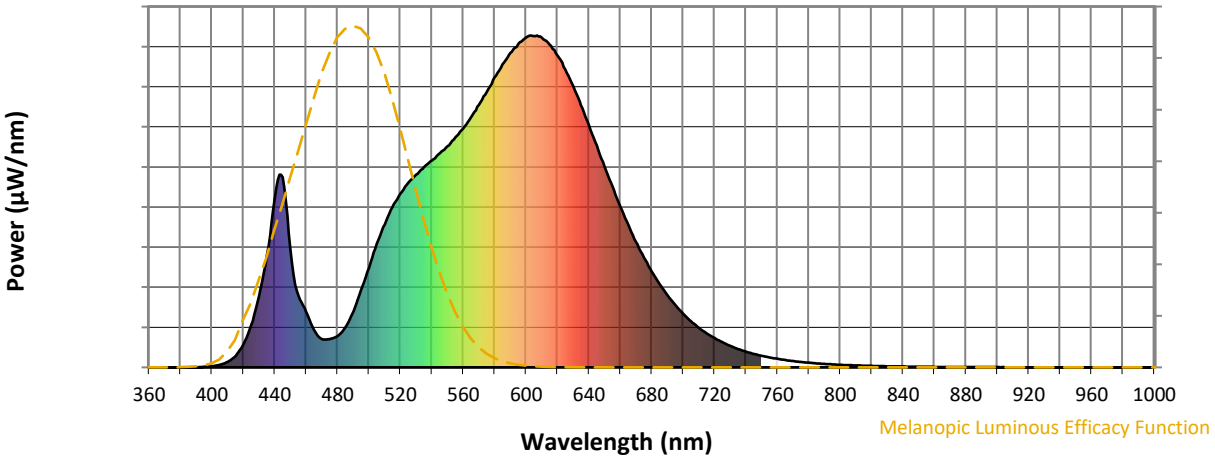
Melanopic Flux vs. Wavelength



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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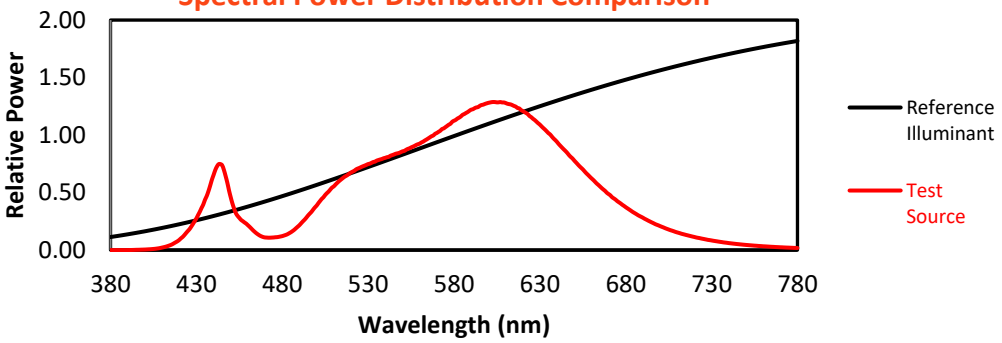
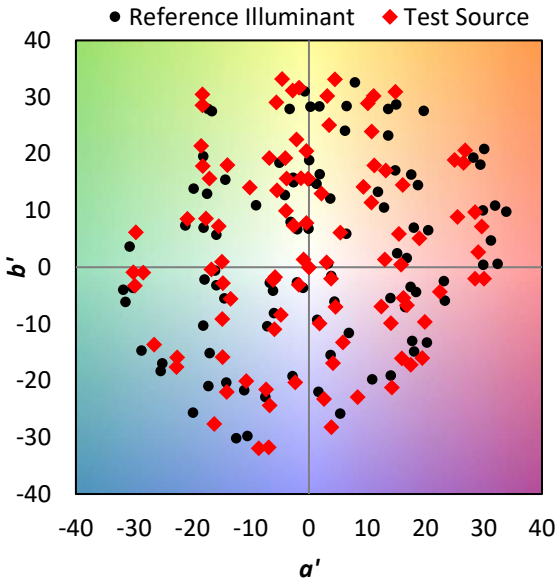
Summary

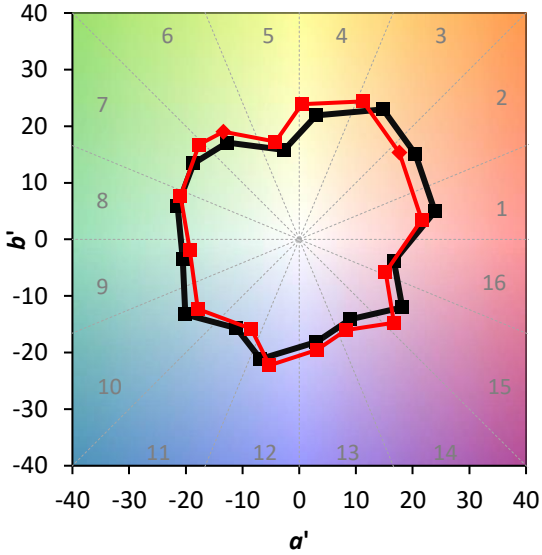
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

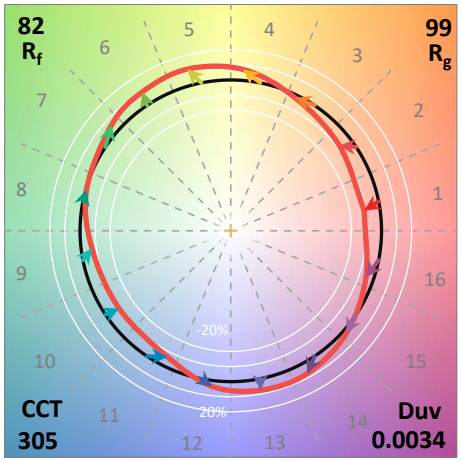
Spectral Power Distribution Comparison

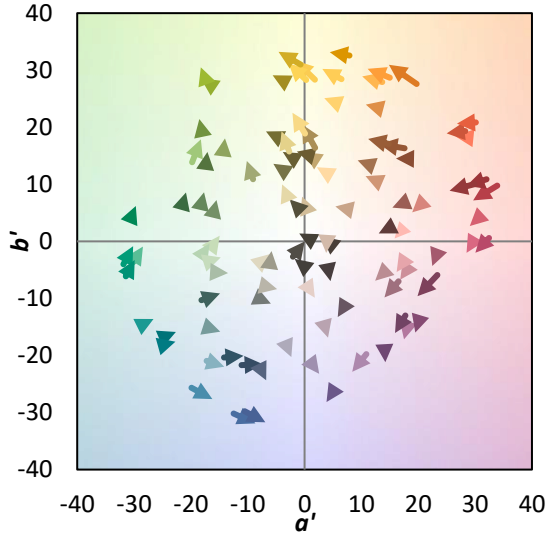


Color Vector Graphics









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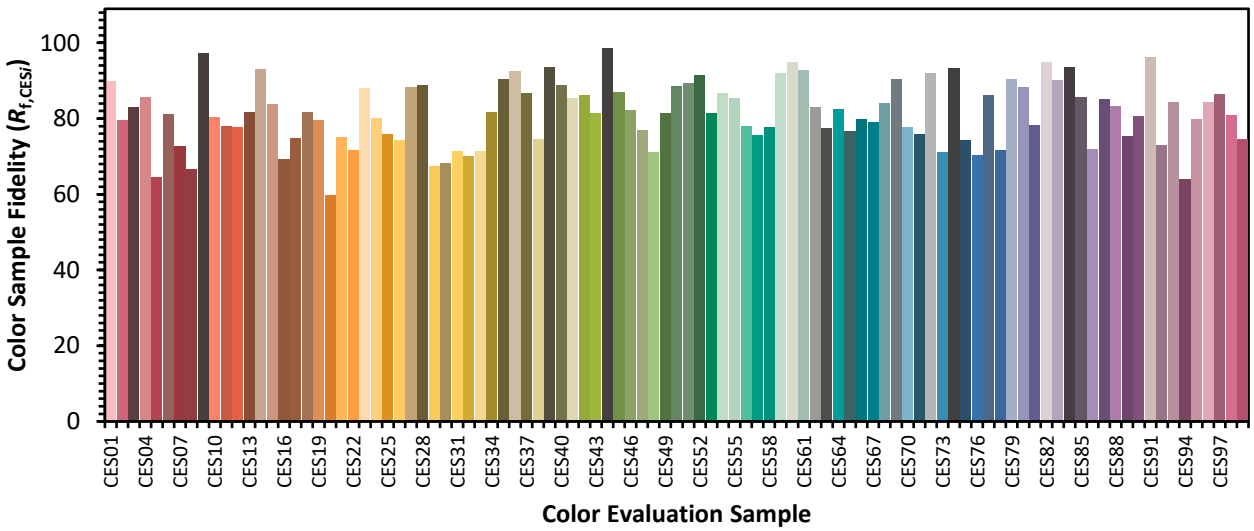
Individual Sample Fidelity Index ($R_{f,i}$)

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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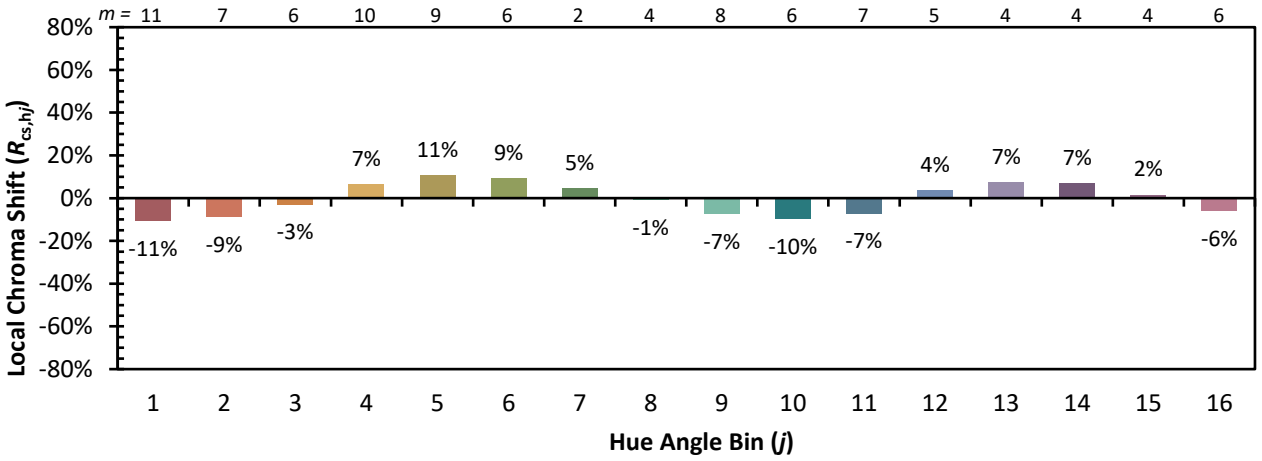
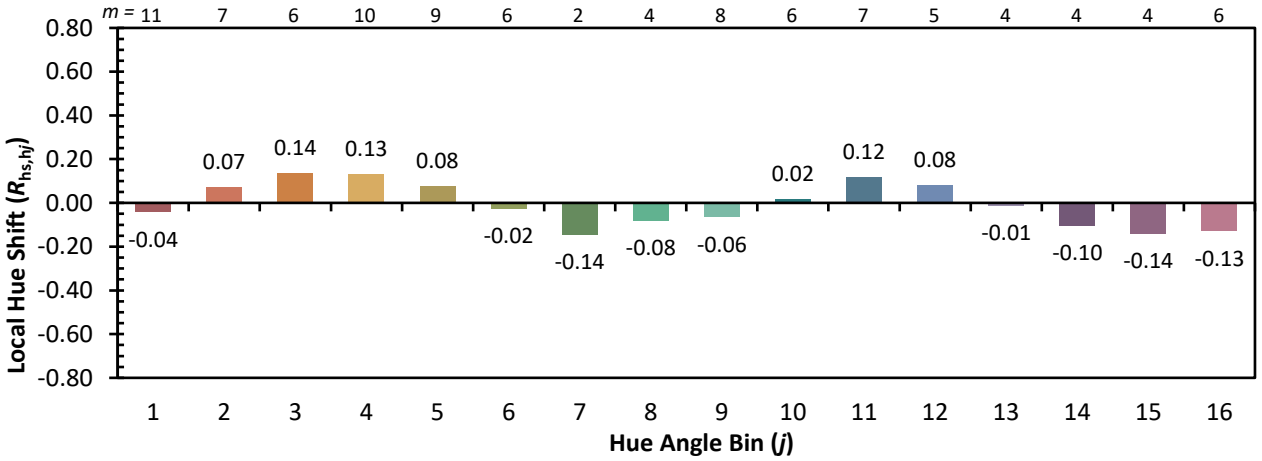
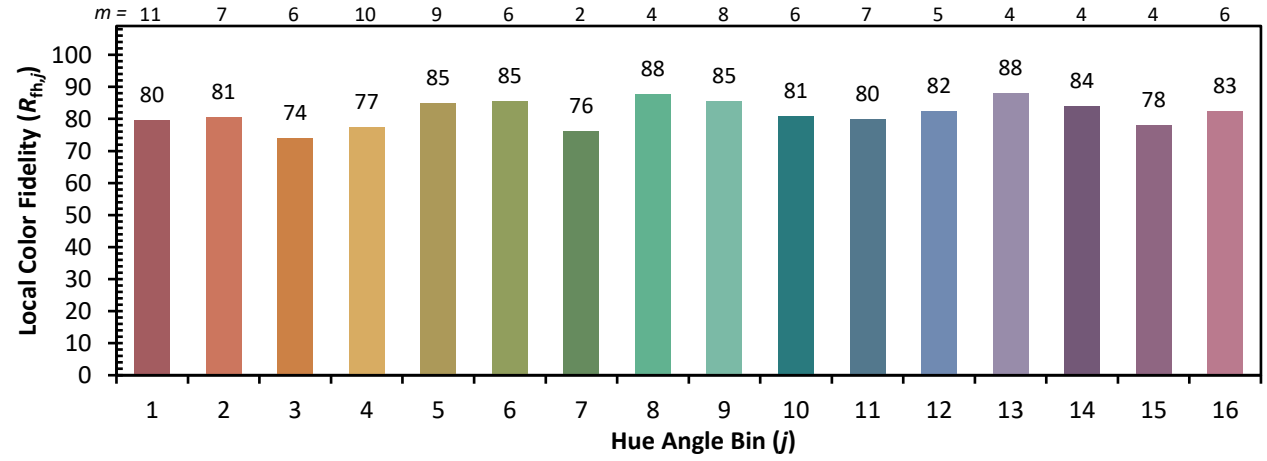
Color Rendition by Hue-Angle Bin







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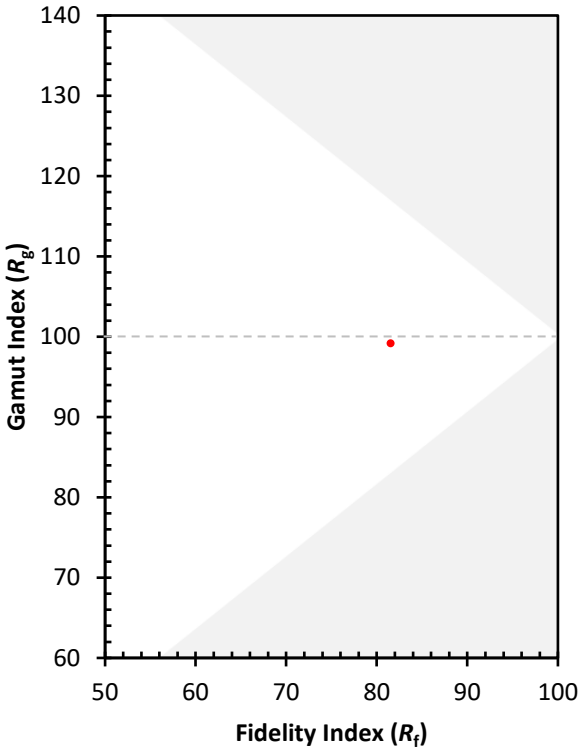
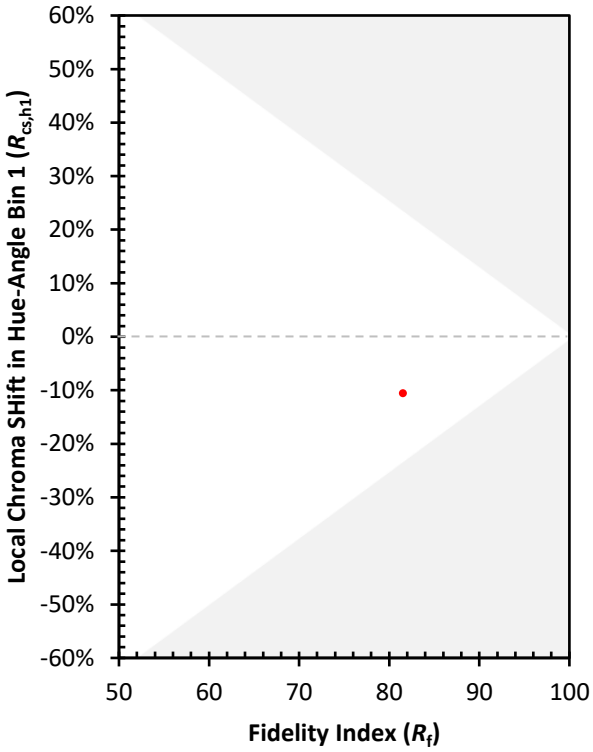
Measure Comparisons





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