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: P640949

Luminaire Tested: GWS-SA5E-830-U-SL3-W-GRSWH

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:	P640949
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5E-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24974.3 lumens
Efficiency:	N/A
Efficacy:	92.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	269.6
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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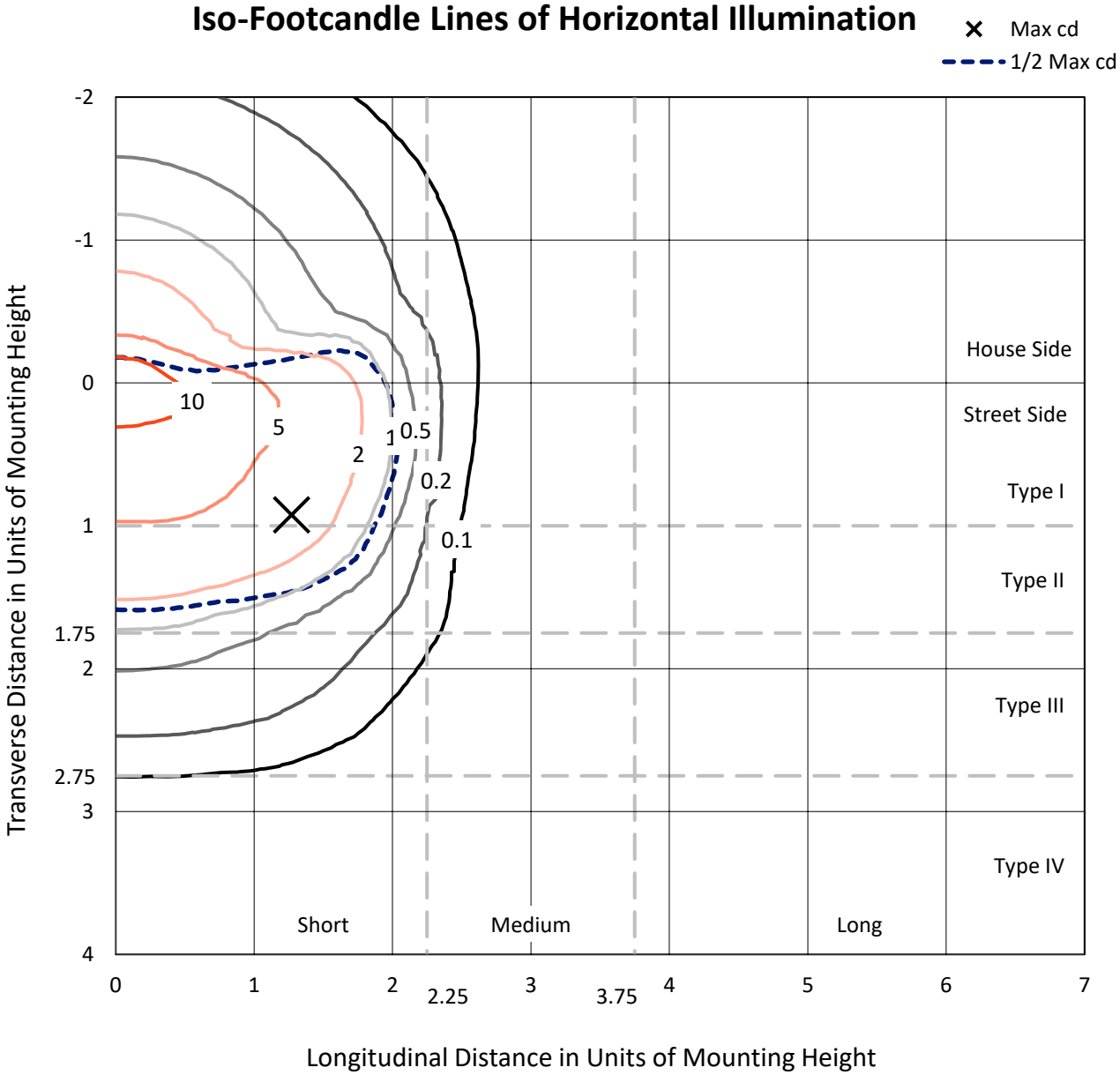
Scaled Data Report

REPORT NUMBER: P640949
CATALOG NUMBER: GWS-SA5E-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Short - N/A

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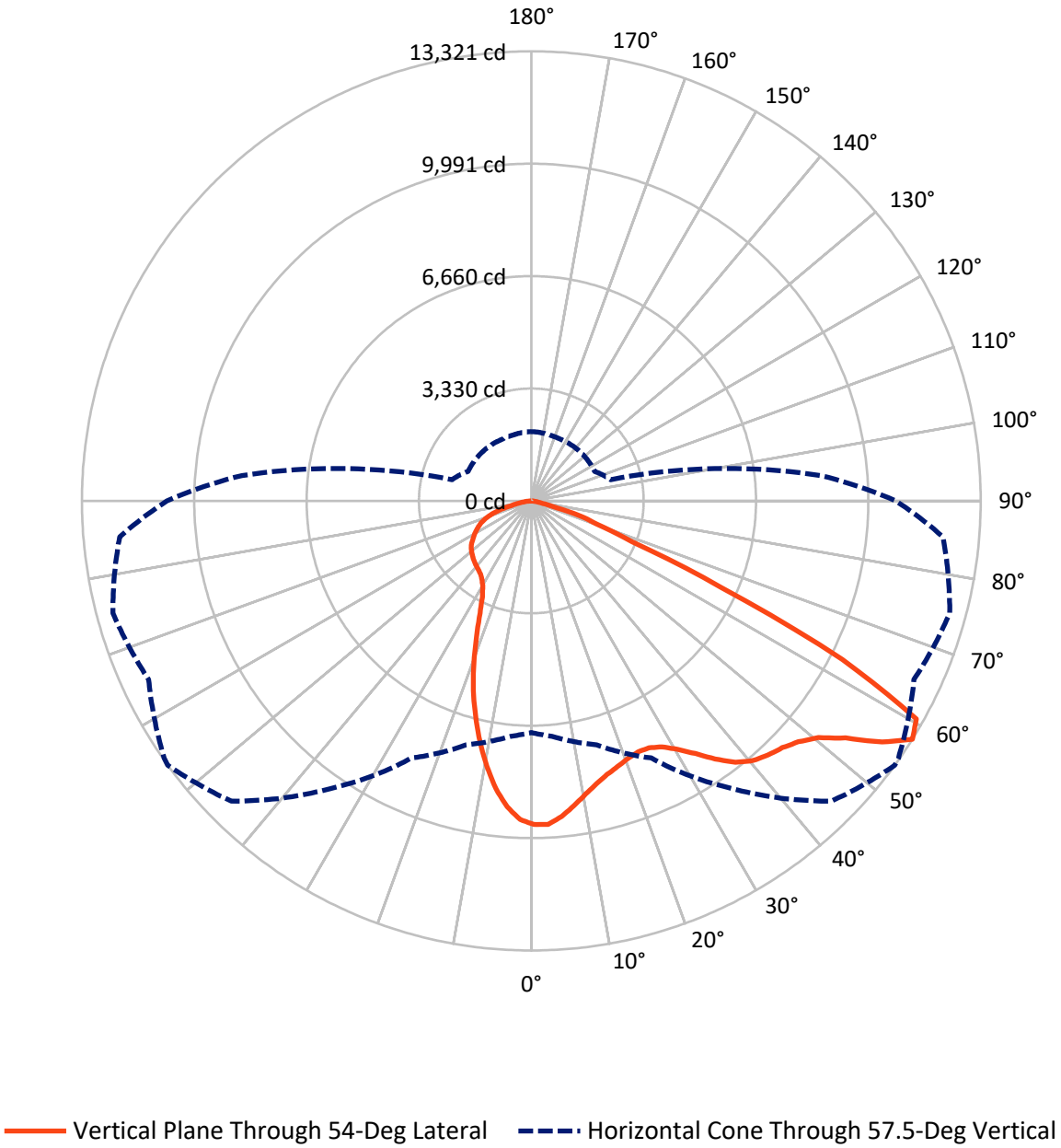
Luminous Intensity Polar Plot



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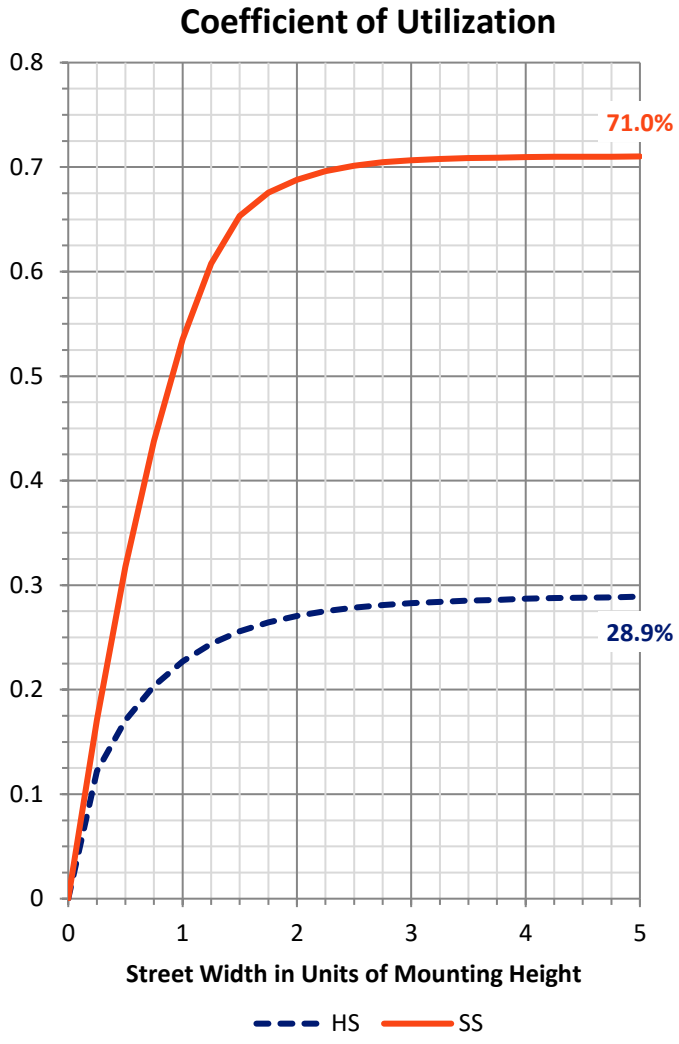
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7260.3	0.0	7260.3
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	17714.0	0.0	17714.0
	% Fixture	70.9	0.0	70.9
Total	Lumens	24974.3	0.0	24974.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.8	3.4
10°-20°	2011.0	8.1
20°-30°	2782.9	11.1
30°-40°	3866.9	15.5
40°-50°	5107.0	20.4
50°-60°	6068.9	24.3
60°-70°	3362.3	13.5
70°-80°	837.3	3.4
80°-90°	95.2	0.4
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°	24974.3	100.0
0°-180°	24974.3	100.0



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REPORT NUMBER: P640949
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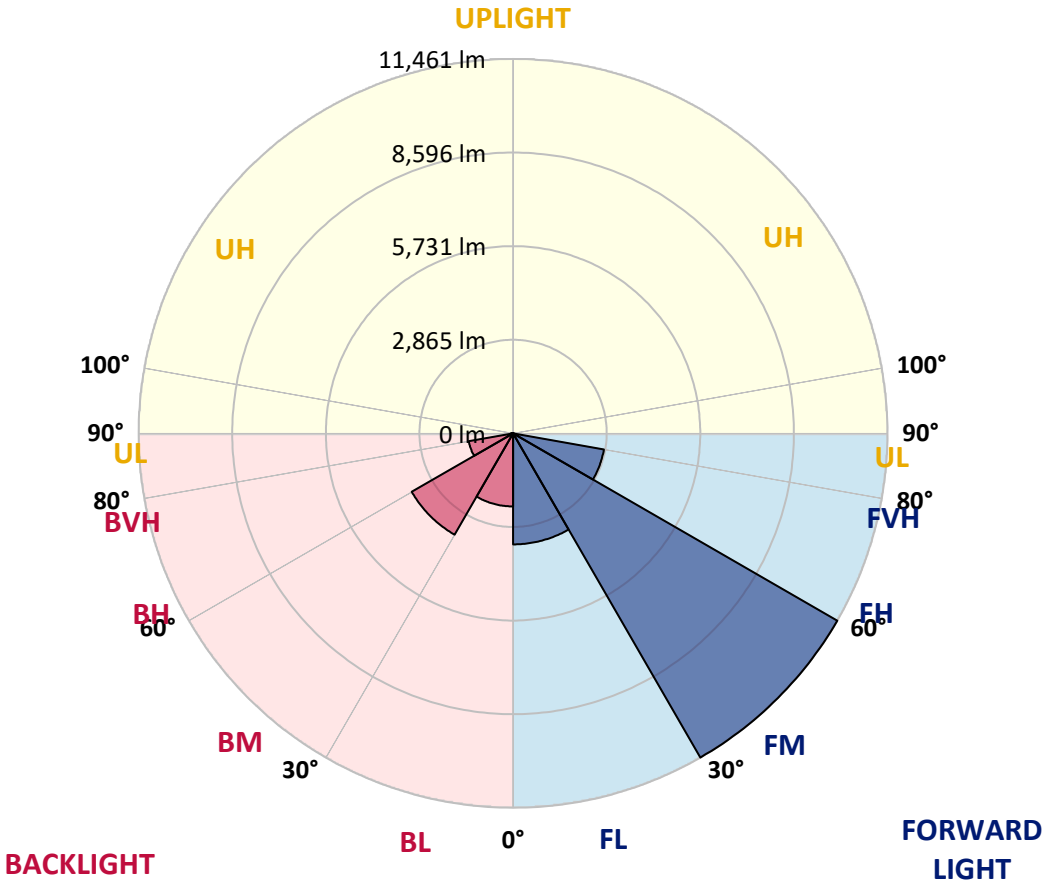
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3399.4	13.6			
FM	(30°-60°)	11461.1	45.9			
FH	(60°-80°)	2823.7	11.3			G2/5000
FVH	(80°-90°)	29.8	0.1			G1/100
BL	(0°-30°)	2237.3	9.0	B3/2500		
BM	(30°-60°)	3581.7	14.3	B3/5000		
BH	(60°-80°)	1375.9	5.5	B3/2500		G3/2500
BVH	(80°-90°)	65.4	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-G3
Type II Short



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Scaled Data Report

REPORT NUMBER: P640949
CATALOG NUMBER: GWS-SA5E-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2
2.5°	9408.6	9427.9	9440.7	9485.6	9524.1	9558.3	9594.6	9594.6	9592.5	9586.1	9573.2
5°	9036.6	9058.0	9087.9	9149.9	9233.3	9293.2	9391.5	9400.1	9442.8	9459.9	9451.4
7.5°	8604.8	8611.2	8649.7	8730.9	8863.5	8970.4	9111.5	9128.6	9231.2	9291.0	9280.4
10°	8132.3	8111.0	8179.4	8299.1	8472.2	8651.8	8833.5	8848.5	9013.1	9126.4	9117.9
12.5°	7700.5	7702.6	7771.0	7916.4	8132.3	8354.7	8598.4	8632.6	8835.7	8981.1	8966.1
15°	7339.2	7347.7	7431.1	7595.7	7841.6	8106.7	8410.3	8442.3	8698.9	8891.3	8848.5
17.5°	7050.6	7059.1	7131.8	7320.0	7582.9	7903.6	8273.4	8305.5	8624.0	8852.8	8765.1
20°	6851.8	6847.5	6918.0	7097.6	7369.1	7717.6	8153.7	8200.7	8600.5	8867.7	8709.5
22.5°	6770.5	6768.4	6819.7	6967.2	7221.6	7574.4	8081.0	8145.2	8626.2	8934.0	8675.3
25°	6811.2	6802.6	6847.5	6956.5	7159.6	7518.8	8102.4	8170.8	8735.2	9070.8	8681.8
27.5°	6937.3	6926.6	6965.1	7063.4	7217.3	7576.5	8252.1	8331.2	8966.1	9321.0	8767.3
30°	7129.7	7123.3	7161.8	7255.8	7390.5	7768.9	8538.5	8628.3	9323.1	9710.1	8953.3
32.5°	7354.2	7343.5	7411.9	7520.9	7677.0	8119.5	8923.3	9040.9	9746.4	10210.3	9265.4
35°	7606.4	7597.9	7691.9	7850.1	8074.6	8606.9	9389.4	9517.7	10178.2	10776.8	9680.1
37.5°	7852.3	7852.3	8034.0	8269.2	8551.3	9137.1	9827.6	9908.9	10477.5	11279.2	10124.8
40°	8070.3	8083.2	8356.8	8709.5	9068.7	9616.0	10116.2	10184.7	10610.1	11625.6	10511.7
42.5°	8311.9	8322.6	8641.1	9102.9	9530.5	10002.9	10291.5	10325.8	10635.7	11798.7	10785.4
45°	8504.3	8519.3	8914.8	9408.6	9932.4	10293.7	10430.5	10460.4	10672.1	11892.8	10984.2
47.5°	8604.8	8626.2	9079.4	9654.5	10203.9	10554.5	10659.3	10672.1	10821.7	12057.4	11223.6
50°	8587.7	8630.4	9141.4	9776.3	10404.9	10817.5	11027.0	11048.3	11127.4	12299.0	11503.7
52.5°	8739.5	8758.7	9273.9	9921.7	10691.3	11302.7	11666.2	11696.1	11659.8	12480.7	11670.5
55°	8487.2	8579.1	9109.3	9900.3	11127.4	12053.1	12613.2	12598.3	12142.9	12683.8	11948.4
57.5°	6864.6	6999.3	7484.6	8403.8	10409.1	12579.0	13320.9	13284.5	12517.0	12839.9	12249.8
60°	4752.4	4773.8	5212.0	5864.1	8034.0	11112.5	13113.5	13192.6	12585.4	12643.2	11691.8
62.5°	3801.1	3794.7	3835.3	3852.4	5109.4	7811.7	10351.4	10640.0	10456.2	9851.2	8286.3
65°	3245.2	3268.8	3388.5	3326.5	3335.0	4399.7	6184.8	6225.4	6097.1	5879.1	4382.6
67.5°	2539.8	2580.4	2792.0	3033.6	2956.6	2832.6	3208.9	3189.7	2514.1	1945.4	1607.7
70°	1590.6	1616.2	1842.8	2381.6	2574.0	2326.0	2063.0	2054.5	1346.8	1107.4	1214.3
72.5°	927.8	932.1	996.2	1327.6	1708.1	1590.6	1517.9	1462.3	865.8	882.9	968.4
75°	510.9	510.9	508.8	572.9	673.4	596.5	577.2	562.3	579.4	656.3	720.5
77.5°	106.9	109.0	115.4	151.8	196.7	239.4	301.4	303.6	378.4	438.3	489.6
80°	49.2	51.3	64.1	81.2	104.8	139.0	183.9	186.0	228.7	275.8	310.0
82.5°	25.7	27.8	34.2	42.8	55.6	72.7	102.6	102.6	136.8	162.5	183.9
85°	8.6	8.6	12.8	17.1	23.5	29.9	40.6	40.6	59.9	79.1	91.9
87.5°	0.0	0.0	0.0	0.0	2.1	4.3	8.6	8.6	10.7	12.8	21.4
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: P640949
CATALOG NUMBER: GWS-SA5E-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2	9588.2
2.5°	9545.4	9479.2	9481.3	9494.1	9453.5	9391.5	9350.9	9299.6	9267.5	9261.1	9284.6
5°	9408.6	9331.7	9278.2	9222.6	9107.2	8970.4	8863.5	8775.8	8718.1	8696.7	8671.1
7.5°	9220.5	9120.0	8985.3	8829.3	8619.8	8376.0	8205.0	8044.7	7933.5	7901.4	7886.5
10°	9032.4	8887.0	8647.6	8356.8	8008.3	7679.1	7369.1	7131.8	6943.7	6836.8	6871.0
12.5°	8837.8	8658.2	8284.1	7837.3	7352.0	6856.0	6449.9	6056.5	5752.9	5601.1	5556.2
15°	8666.8	8423.1	7901.4	7296.4	6650.8	6026.6	5438.7	4848.6	4463.8	4254.3	4196.6
17.5°	8521.4	8205.0	7497.4	6744.9	5973.1	5083.8	4361.2	3813.9	3550.9	3435.5	3427.0
20°	8378.2	7991.2	7097.6	6150.6	5190.7	4194.4	3548.8	3292.3	3198.2	3157.6	3155.4
22.5°	8249.9	7766.8	6676.5	5556.2	4412.5	3525.3	3170.4	3059.2	3033.6	3033.6	3029.3
25°	8140.9	7542.3	6244.6	4925.6	3709.1	3138.3	2973.7	2926.7	2937.4	2956.6	2958.8
27.5°	8096.0	7367.0	5827.7	4277.8	3223.9	2913.9	2839.0	2832.6	2862.6	2892.5	2896.8
30°	8143.0	7247.3	5400.2	3657.8	2933.1	2777.1	2742.8	2755.7	2792.0	2821.9	2821.9
32.5°	8288.4	7187.4	4964.1	3204.6	2764.2	2680.8	2670.2	2683.0	2710.8	2727.9	2730.0
35°	8534.2	7210.9	4513.0	2898.9	2655.2	2610.3	2608.2	2616.7	2627.4	2638.1	2640.2
37.5°	8844.2	7315.7	4029.8	2721.5	2584.6	2559.0	2554.7	2552.6	2554.7	2554.7	2556.9
40°	9147.8	7473.9	3598.0	2616.7	2535.5	2514.1	2503.4	2488.4	2486.3	2482.0	2479.9
42.5°	9372.3	7595.7	3253.8	2541.9	2490.6	2464.9	2452.1	2428.6	2426.4	2424.3	2422.2
45°	9541.2	7698.4	2967.3	2469.2	2443.5	2420.0	2392.2	2370.9	2375.1	2379.4	2379.4
47.5°	9731.4	7788.1	2757.8	2400.8	2385.8	2362.3	2328.1	2313.1	2328.1	2343.1	2343.1
50°	9962.3	7914.3	2586.8	2332.4	2326.0	2298.2	2268.2	2261.8	2278.9	2300.3	2300.3
52.5°	10131.2	8023.3	2464.9	2264.0	2264.0	2227.6	2202.0	2199.8	2219.1	2240.5	2242.6
55°	10447.6	8277.7	2422.2	2184.9	2176.3	2148.5	2129.3	2114.3	2137.8	2157.1	2157.1
57.5°	*10804.6*	*8615.5*	*2432.9*	*2071.6*	*2060.9*	*2052.3*	*2037.4*	*2020.3*	*2026.7*	*2048.0*	*2050.2*
60°	10047.8	7961.3	2315.3	1958.3	1951.8	1947.6	1928.3	1898.4	1907.0	1924.1	1926.2
62.5°	7018.5	5291.1	1872.7	1817.2	1838.5	1836.4	1810.7	1776.5	1778.7	1802.2	1802.2
65°	3642.9	2862.6	1644.0	1688.9	1721.0	1708.1	1665.4	1635.4	1631.2	1661.1	1654.7
67.5°	1571.3	1562.8	1496.5	1554.2	1588.4	1560.6	1515.7	1466.6	1470.8	1481.5	1473.0
70°	1265.6	1304.1	1331.9	1393.9	1421.7	1370.4	1321.2	1293.4	1269.9	1267.7	1252.8
72.5°	1011.2	1064.6	1126.6	1190.8	1199.3	1148.0	1086.0	1060.4	1024.0	1021.9	1006.9
75°	761.1	806.0	855.1	906.4	906.4	857.3	816.7	803.8	761.1	748.2	735.4
77.5°	519.5	547.3	585.8	598.6	611.4	592.2	551.6	530.2	481.0	468.2	451.1
80°	327.1	346.3	369.8	378.4	391.2	367.7	335.6	312.1	277.9	267.2	258.7
82.5°	196.7	209.5	224.5	228.7	239.4	222.3	192.4	175.3	156.1	147.5	141.1
85°	100.5	106.9	115.4	117.6	115.4	98.3	87.7	79.1	66.3	64.1	59.9
87.5°	25.7	29.9	32.1	29.9	27.8	21.4	15.0	10.7	4.3	4.3	2.1
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

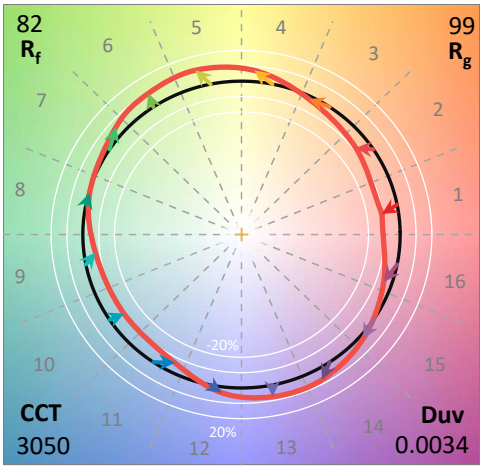
Test Information

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

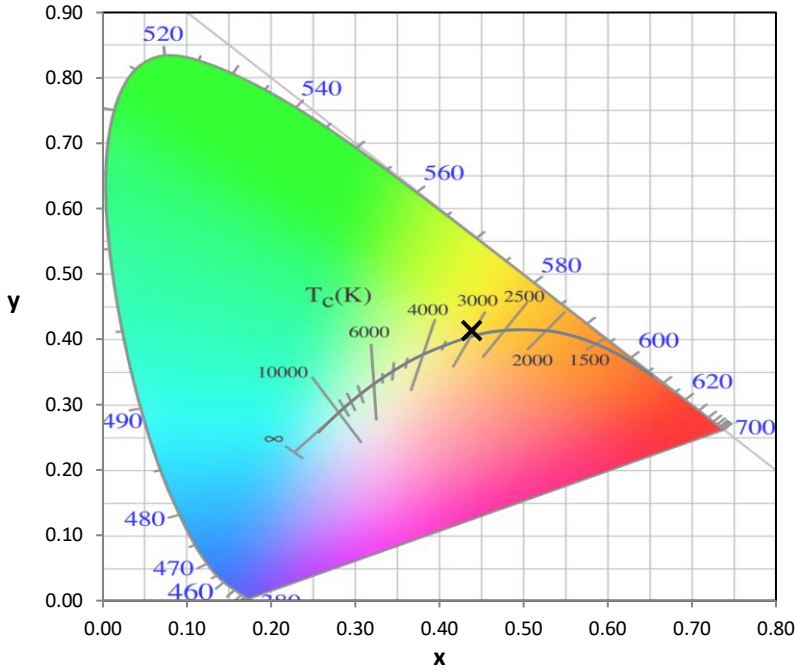
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

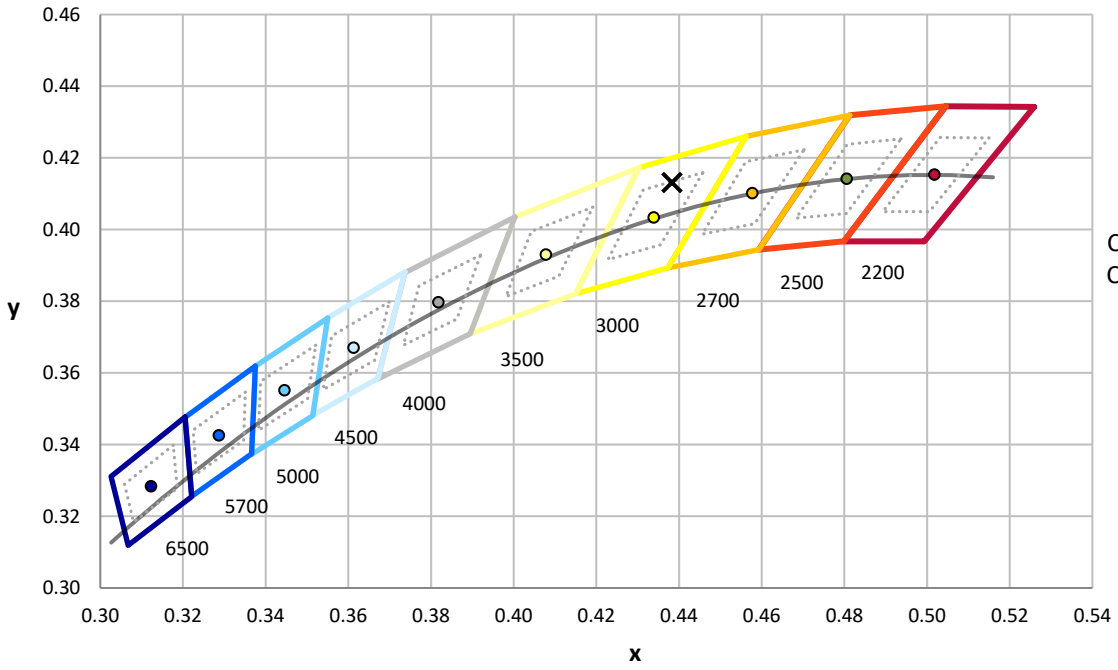
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

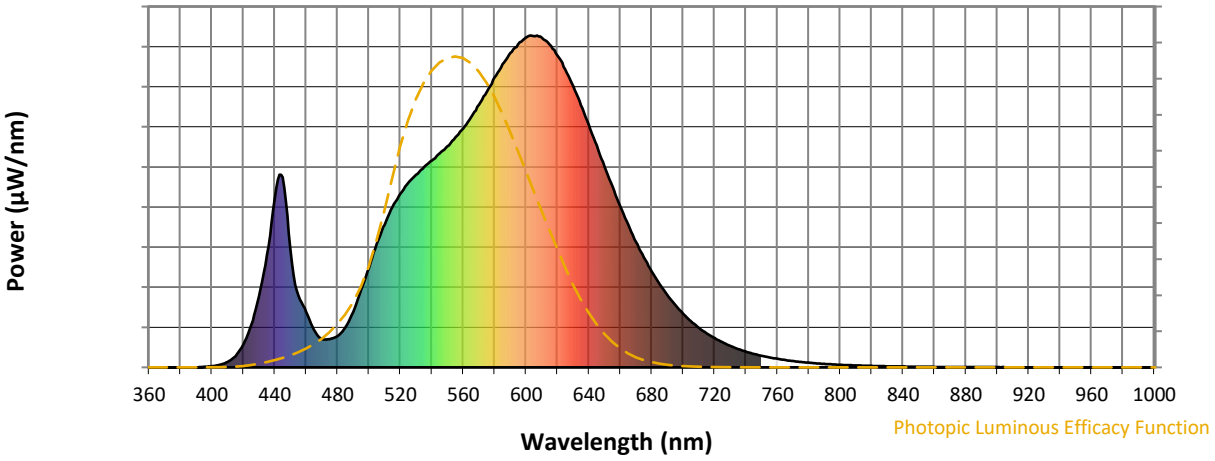


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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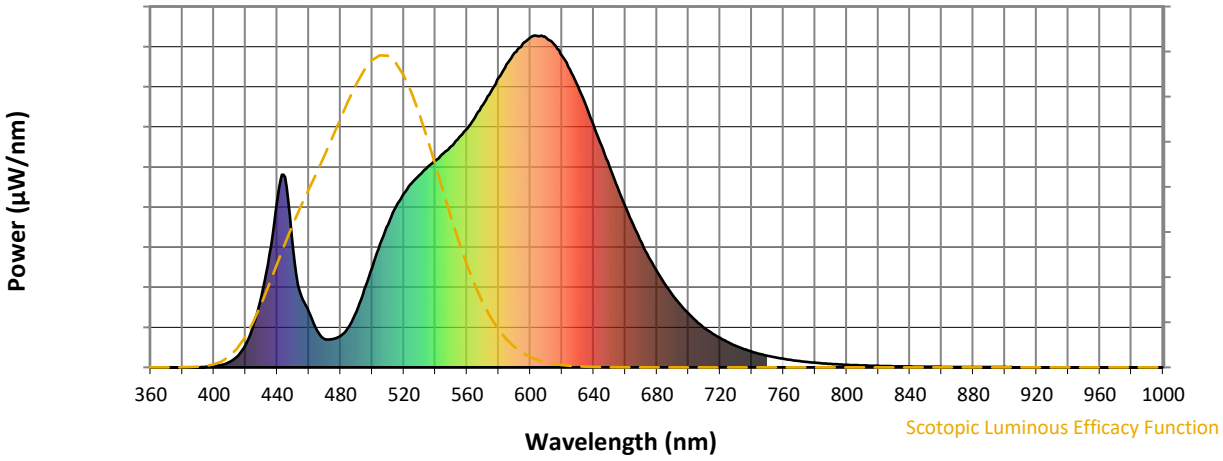
Scotopic Flux vs. Wavelength



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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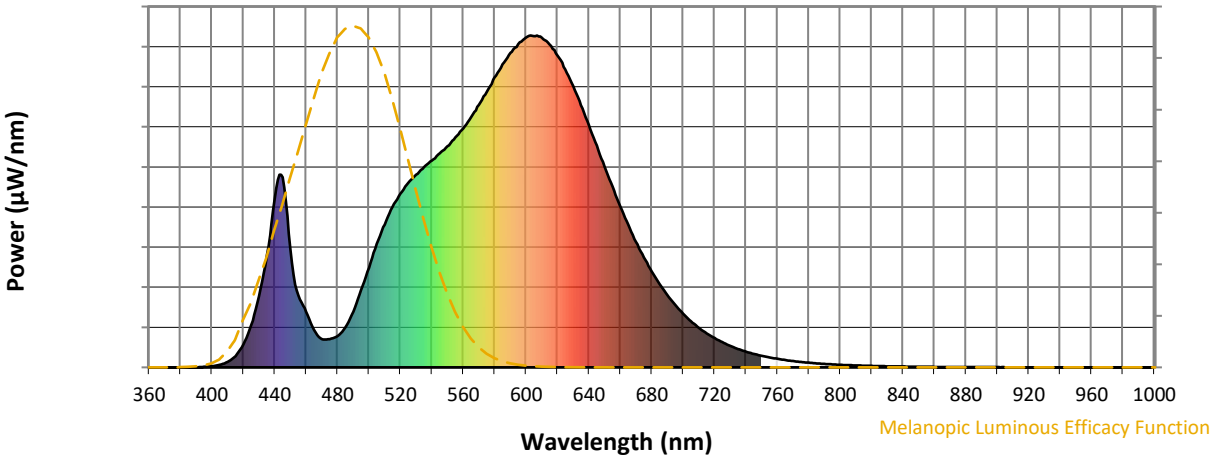
Melanopic Flux vs. Wavelength



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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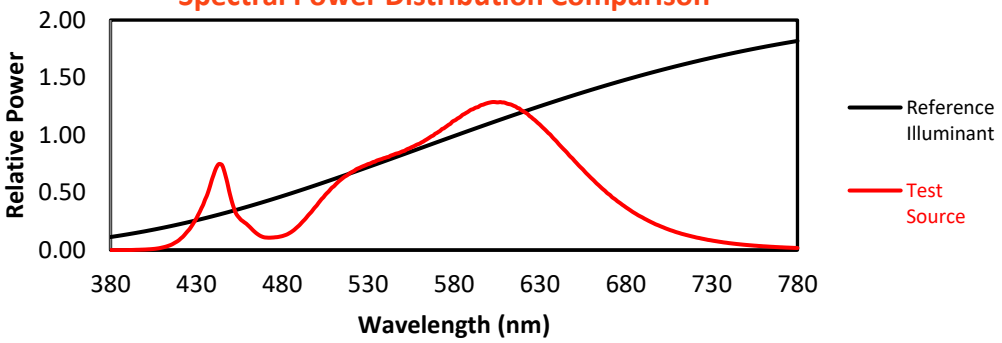
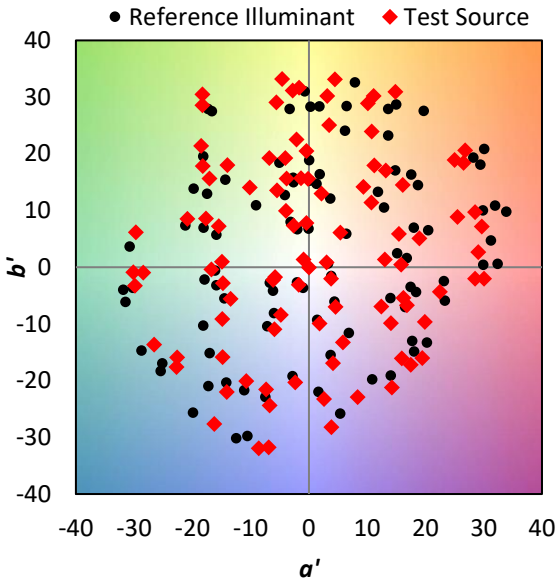
Summary

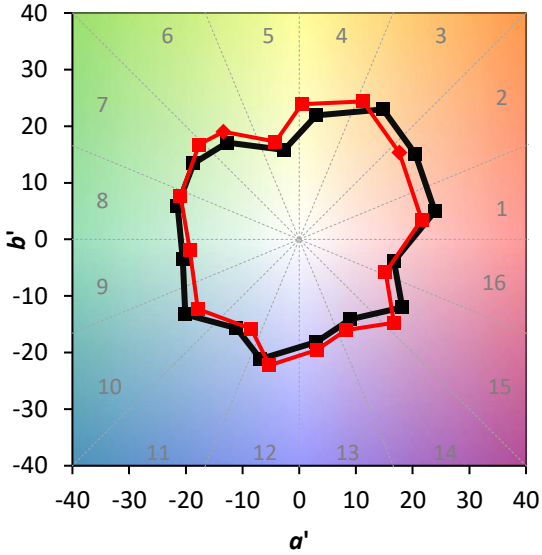
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

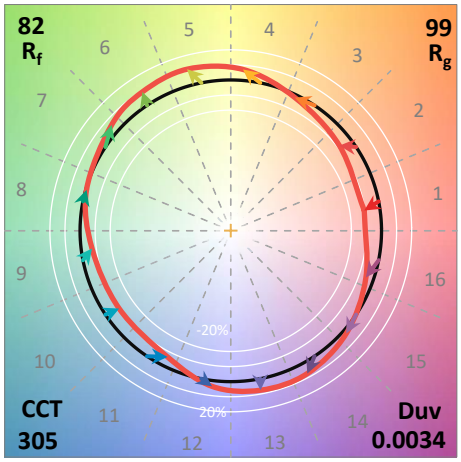
Spectral Power Distribution Comparison

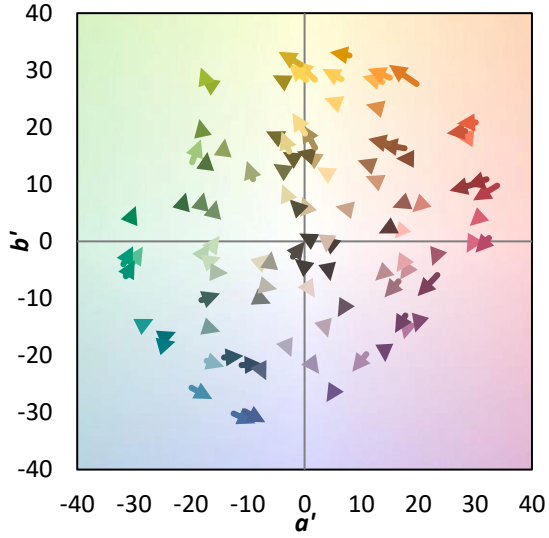


Color Vector Graphics









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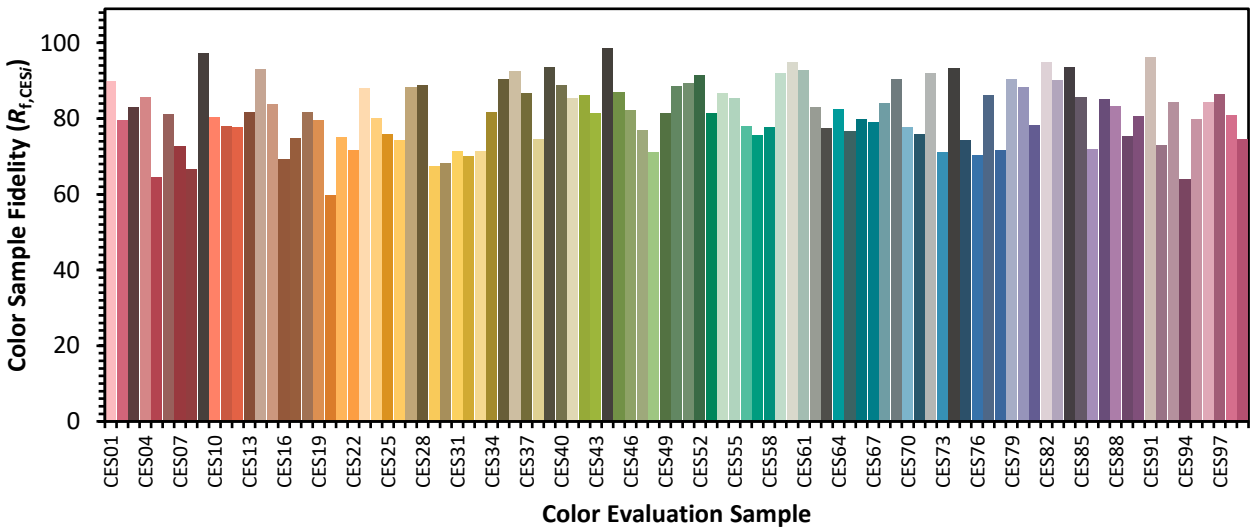
Individual Sample Fidelity Index ($R_{f,i}$)

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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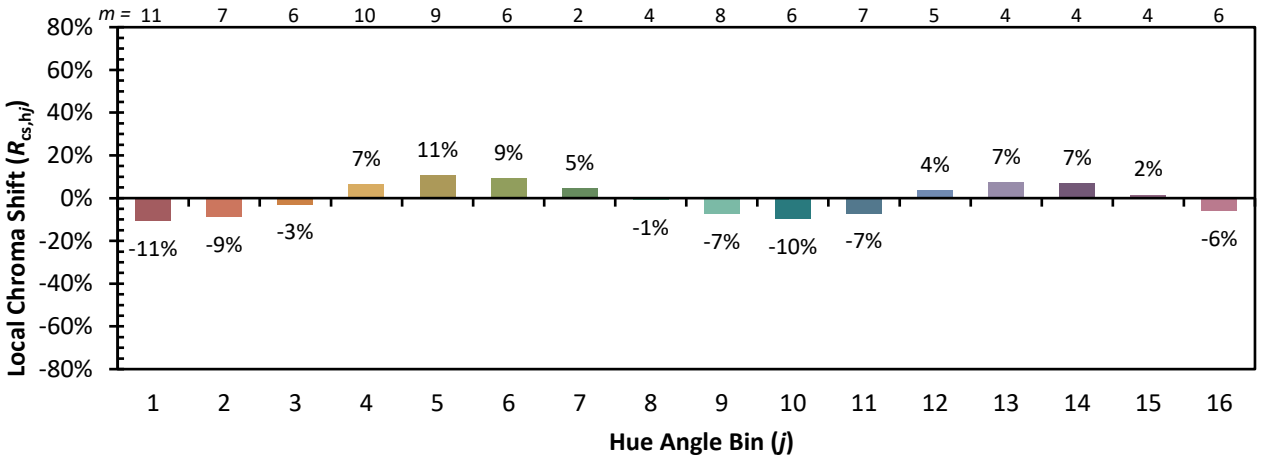
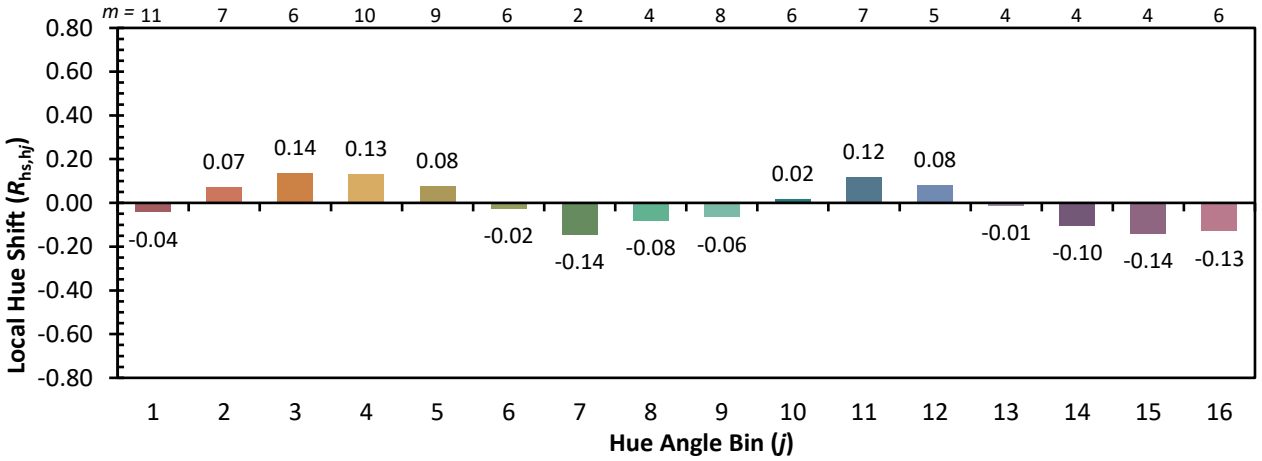
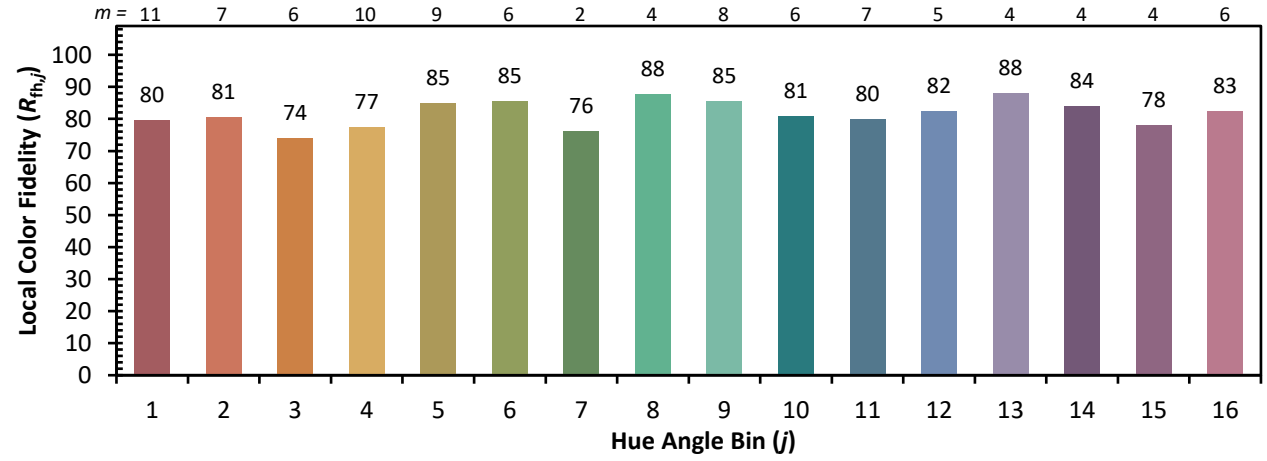
Color Rendition by Hue-Angle Bin







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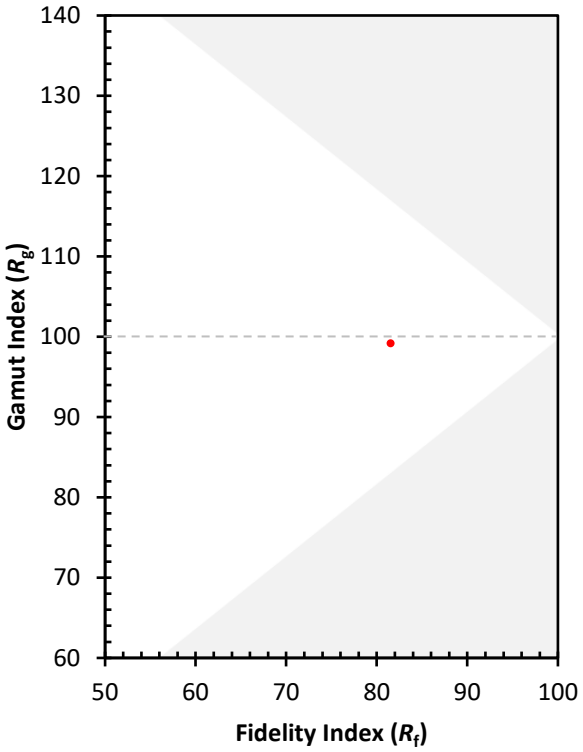
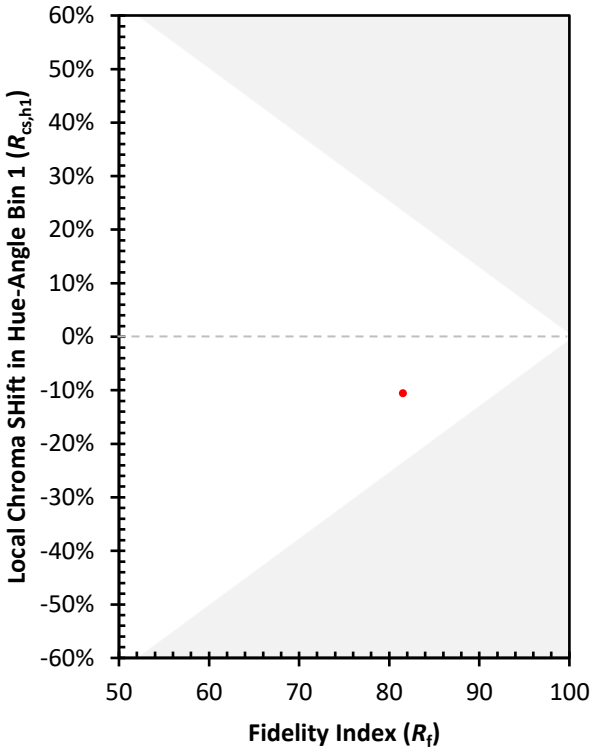
Measure Comparisons





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