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: P639468

Luminaire Tested: GWS-SA5B-830-U-SL4-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:	P639468
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5B-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13546.4 lumens
Efficiency:	N/A
Efficacy:	117.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	115.7
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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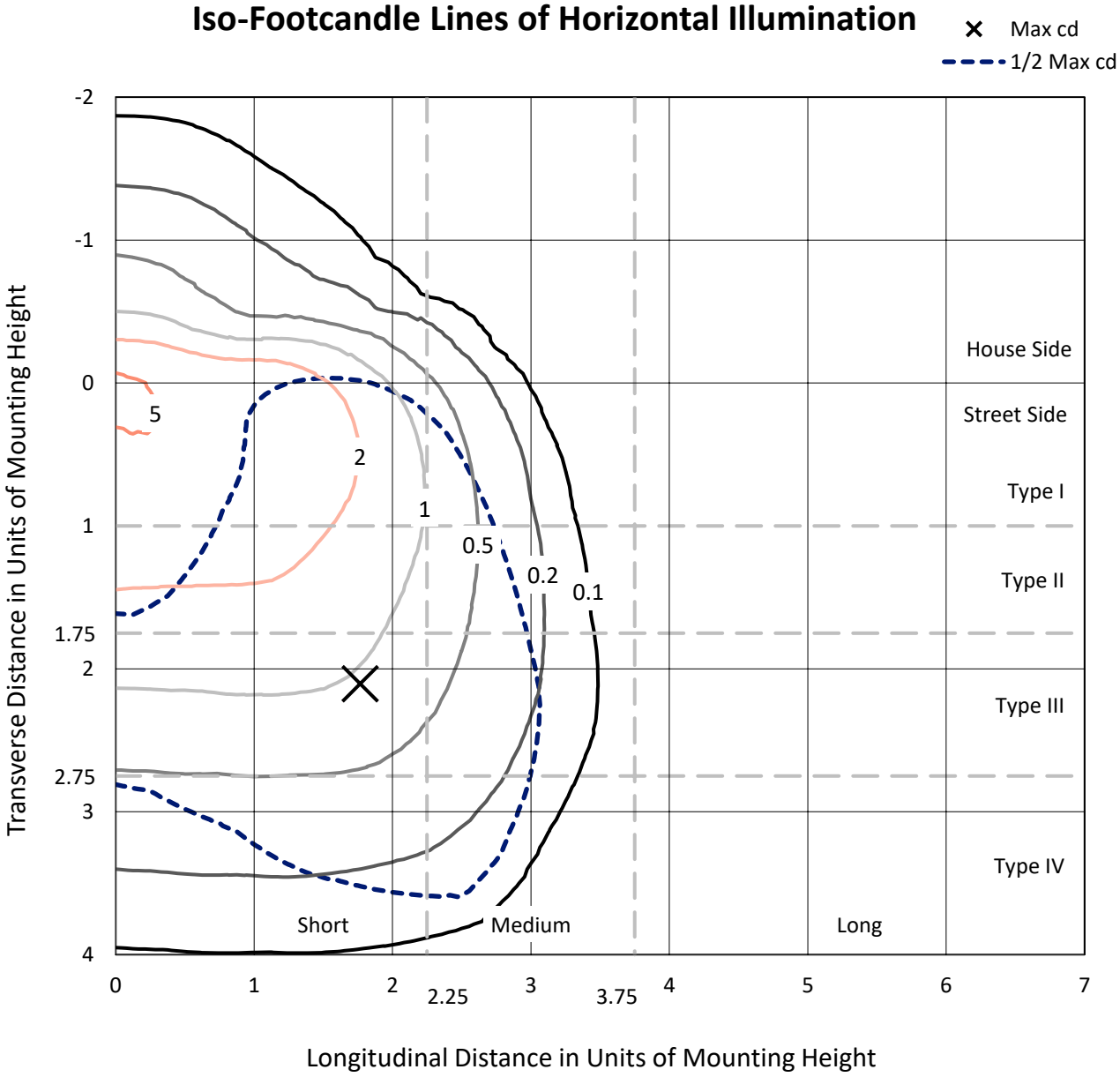
Scaled Data Report

REPORT NUMBER: P639468
CATALOG NUMBER: GWS-SA5B-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - N/A

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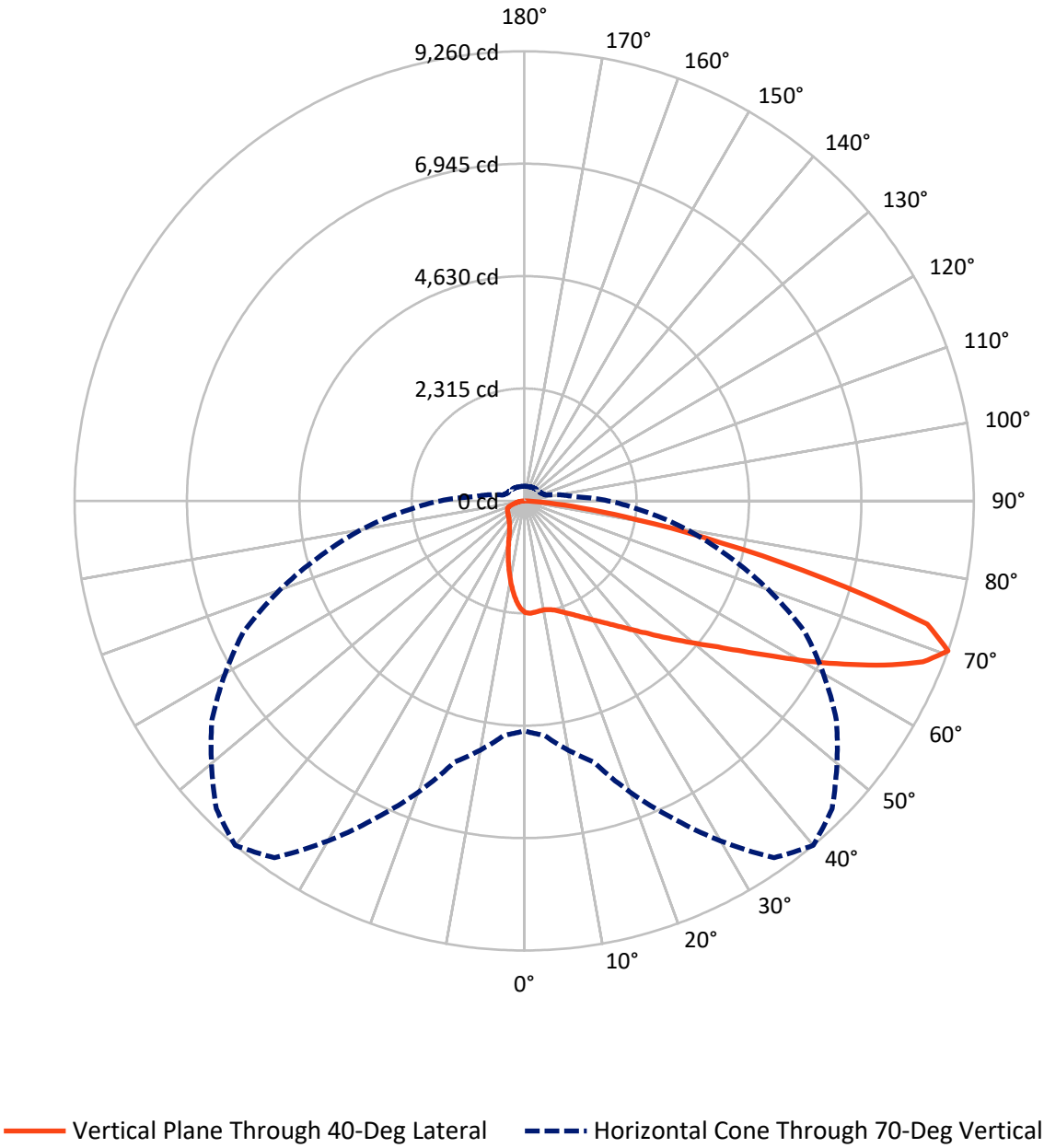
Luminous Intensity Polar Plot



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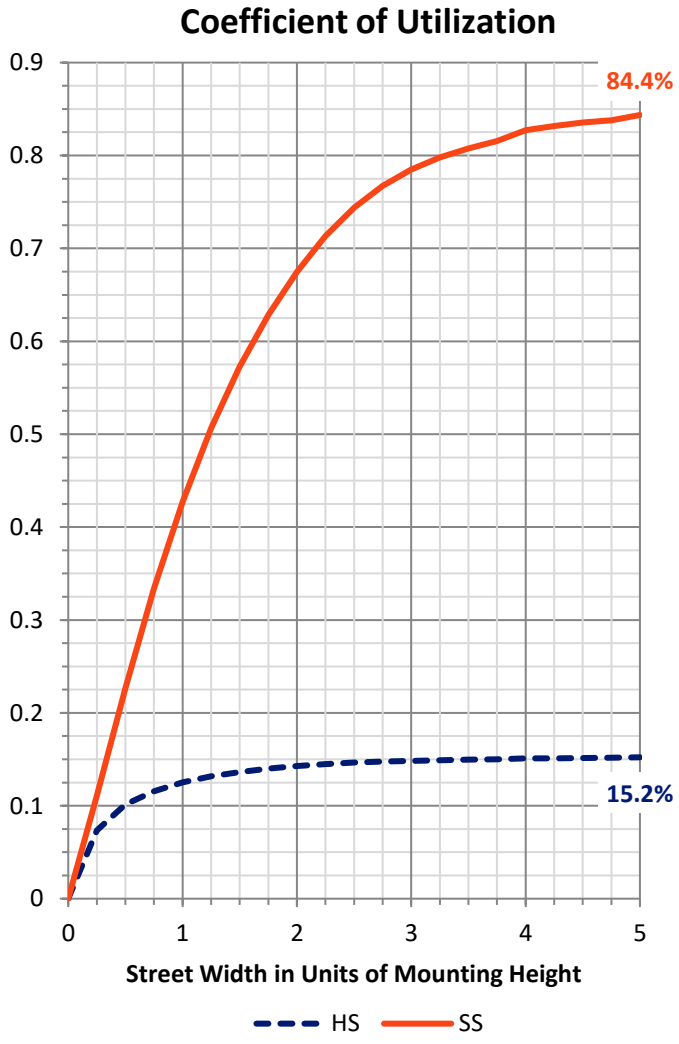
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2086.5	0.0	2086.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11459.9	0.0	11459.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	13546.4	0.0	13546.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.5
10°-20°	529.7	3.9
20°-30°	831.7	6.1
30°-40°	1250.5	9.2
40°-50°	1930.2	14.2
50°-60°	2866.5	21.2
60°-70°	3613.2	26.7
70°-80°	2089.5	15.4
80°-90°	231.9	1.7
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°	13546.4	100.0
0°-180°	13546.4	100.0



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REPORT NUMBER: P639468
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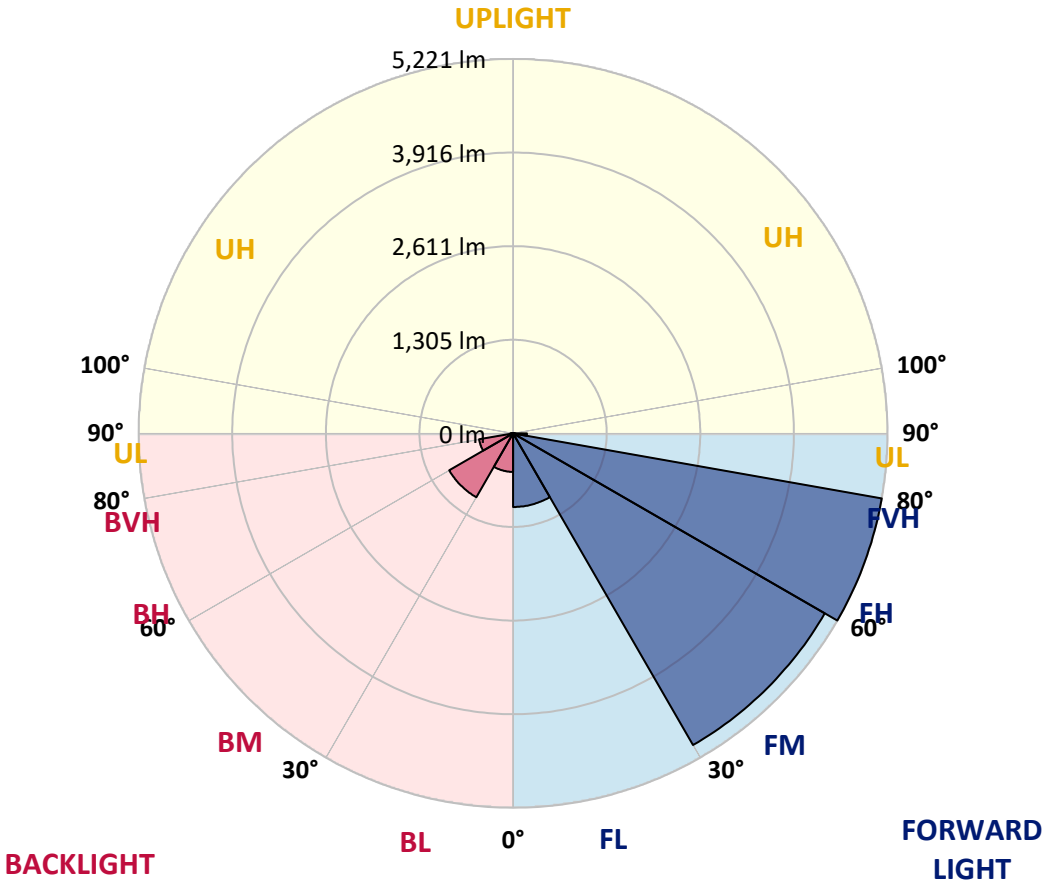
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1026.9	7.6			
FM	(30°-60°)	5018.8	37.0			
FH	(60°-80°)	5221.1	38.5			G3/7500
FVH	(80°-90°)	193.1	1.4			G2/225
BL	(0°-30°)	537.7	4.0	B2/1000		
BM	(30°-60°)	1028.5	7.6	B2/2500		
BH	(60°-80°)	481.6	3.6	B1/500		G1/500
BVH	(80°-90°)	38.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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Scaled Data Report

REPORT NUMBER: P639468
CATALOG NUMBER: GWS-SA5B-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3
2.5°	2314.5	2318.5	2321.6	2325.6	2323.6	2317.5	2322.6	2322.6	2311.5	2299.3	2288.2
5°	2317.5	2322.6	2321.6	2320.6	2312.5	2302.4	2302.4	2296.3	2277.1	2257.9	2239.7
7.5°	2311.5	2310.4	2309.4	2306.4	2297.3	2286.2	2284.2	2272.0	2246.7	2220.5	2194.2
10°	2284.2	2283.1	2286.2	2293.3	2291.2	2281.1	2281.1	2270.0	2240.7	2208.3	2173.9
12.5°	2261.9	2261.9	2274.0	2293.3	2300.3	2296.3	2297.3	2289.2	2255.8	2217.4	2177.0
15°	2264.9	2266.0	2292.2	2323.6	2336.7	2333.7	2334.7	2325.6	2288.2	2249.8	2195.2
17.5°	2285.2	2290.2	2335.7	2379.2	2396.4	2392.3	2385.3	2370.1	2327.6	2284.2	2217.4
20°	2327.6	2335.7	2394.4	2449.0	2469.2	2460.1	2448.0	2417.6	2371.1	2323.6	2241.7
22.5°	2411.6	2416.6	2481.3	2534.9	2551.1	2540.0	2515.7	2472.2	2418.6	2369.1	2271.0
25°	2529.9	2535.9	2597.6	2647.2	2643.1	2630.0	2596.6	2543.0	2479.3	2426.7	2313.5
27.5°	2670.4	2680.5	2741.2	2780.6	2754.3	2735.1	2697.7	2633.0	2561.2	2513.7	2378.2
30°	2824.1	2828.1	2879.7	2919.1	2878.7	2852.4	2806.9	2737.1	2672.4	2637.0	2475.3
32.5°	2972.7	2976.8	3021.3	3043.5	3001.1	2981.8	2942.4	2868.6	2823.1	2803.9	2619.9
35°	3129.5	3128.5	3164.9	3184.1	3140.6	3132.5	3092.1	3035.4	3027.3	3052.6	2831.2
37.5°	3286.2	3277.1	3296.3	3321.6	3297.3	3305.4	3279.1	3259.9	3291.2	3357.0	3112.3
40°	3411.6	3411.6	3431.8	3463.1	3471.2	3506.6	3491.5	3516.7	3617.8	3774.6	3460.1
42.5°	3522.8	3523.8	3566.3	3614.8	3673.5	3728.1	3740.2	3805.9	4015.2	4260.9	3896.9
45°	3639.1	3640.1	3697.7	3768.5	3892.9	3997.0	4021.3	4168.9	4468.2	4767.5	4371.1
47.5°	3773.6	3762.4	3842.3	3960.6	4137.6	4287.2	4349.9	4559.2	4937.4	5305.4	4818.1
50°	3925.2	3902.0	3991.0	4195.2	4413.6	4618.9	4724.0	4963.7	5440.9	5801.9	5238.7
52.5°	4096.1	4083.0	4176.0	4424.7	4758.4	4995.0	5137.6	5452.0	5930.3	6296.3	5572.4
55°	4308.4	4277.1	4411.6	4728.1	5162.9	5464.2	5633.0	5935.4	6465.2	6745.3	5827.2
57.5°	4541.0	4506.6	4686.6	5107.2	5688.7	6019.3	6230.6	6479.4	6968.7	7089.1	5976.8
60°	4791.8	4780.7	4994.0	5552.1	6315.6	6699.8	6852.5	7078.0	7406.6	7288.3	5939.4
62.5°	5021.3	5017.3	5327.7	6034.5	6979.9	7402.5	7523.9	7583.5	7722.0	7275.1	5642.1
65°	5263.0	5297.3	5717.0	6593.6	7741.3	8155.8	8206.4	8054.7	7828.2	6930.3	5033.4
67.5°	5293.3	5360.0	5961.7	7117.4	8463.2	8854.5	8814.1	8233.7	7514.8	5970.8	3945.5
70°	4734.1	4850.4	5571.4	7197.3	8971.8	9260.0	8967.8	7848.4	6377.2	4325.6	2481.3
72.5°	3955.6	4055.7	4692.7	6137.6	8315.6	8682.6	8287.3	6643.2	4506.6	2481.3	1263.9
75°	3078.9	3195.2	3782.7	4878.7	6225.6	6372.2	6174.0	4633.0	2477.3	1023.3	574.3
77.5°	1878.7	1962.6	2419.6	3305.4	4356.0	4136.6	3505.6	2597.6	1087.0	490.4	354.9
80°	831.2	882.7	1192.1	1775.6	2516.7	2379.2	1875.7	1109.2	594.5	311.4	247.7
82.5°	445.9	479.3	587.5	702.7	1105.2	1155.7	937.3	639.0	319.5	178.0	141.6
85°	196.2	215.4	266.9	254.8	363.0	356.9	360.0	438.8	152.7	81.9	92.0
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.1	58.6	15.2	24.3	21.2
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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Scaled Data Report

REPORT NUMBER: P639468
CATALOG NUMBER: GWS-SA5B-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3
2.5°	2276.1	2257.9	2252.8	2246.7	2235.6	2216.4	2202.3	2186.1	2179.0	2170.9	2171.9
5°	2219.4	2197.2	2176.0	2148.7	2114.3	2075.9	2049.6	2019.2	2003.1	1987.9	1991.9
7.5°	2170.9	2136.5	2093.1	2035.4	1973.7	1905.0	1849.4	1805.9	1776.6	1756.3	1766.5
10°	2140.6	2100.1	2024.3	1930.3	1826.1	1721.0	1641.1	1566.2	1519.7	1483.3	1481.3
12.5°	2134.5	2081.9	1971.7	1835.2	1684.6	1544.0	1426.7	1325.6	1263.9	1218.4	1235.6
15°	2140.6	2073.8	1926.2	1747.2	1557.1	1367.1	1221.5	1105.2	1031.4	989.9	986.9
17.5°	2147.7	2065.8	1874.6	1652.2	1423.7	1206.3	1037.4	914.1	838.2	796.8	797.8
20°	2153.7	2053.6	1814.0	1548.0	1288.2	1056.6	881.7	764.4	696.7	666.3	671.4
22.5°	2163.8	2041.5	1749.3	1436.8	1149.7	912.0	758.4	663.3	622.9	602.6	603.6
25°	2183.0	2034.4	1682.5	1315.5	1013.2	796.8	673.4	609.7	584.4	572.3	571.3
27.5°	2222.5	2040.5	1612.8	1198.2	889.8	708.8	618.8	577.4	560.2	552.1	551.1
30°	2288.2	2064.7	1552.1	1078.9	783.6	640.0	581.4	556.1	546.0	538.9	537.9
32.5°	2388.3	2110.2	1486.4	967.7	697.7	589.5	552.1	538.9	531.9	527.8	527.8
35°	2540.0	2193.2	1421.7	870.6	630.9	550.1	528.8	523.8	517.7	515.7	517.7
37.5°	2758.4	2325.6	1363.0	785.7	583.4	519.7	503.5	505.6	500.5	503.5	506.6
40°	3035.4	2502.6	1313.5	715.9	548.0	497.5	481.3	488.4	485.3	488.4	493.4
42.5°	3386.3	2722.0	1276.1	661.3	522.8	479.3	464.1	471.2	469.2	473.2	478.3
45°	3777.6	3011.2	1258.9	622.9	504.6	466.1	450.0	455.0	453.0	456.0	461.1
47.5°	4152.7	3274.1	1274.0	600.6	489.4	455.0	437.8	439.8	438.8	437.8	440.9
50°	4476.3	3483.4	1317.5	593.5	479.3	443.9	427.7	428.7	425.7	419.6	421.6
52.5°	4740.2	3651.2	1343.8	593.5	474.2	431.8	416.6	417.6	411.5	403.4	404.5
55°	4914.1	3719.0	1322.6	592.5	472.2	421.6	405.5	406.5	400.4	390.3	391.3
57.5°	4963.7	3653.2	1233.6	581.4	470.2	413.6	394.3	396.4	392.3	381.2	381.2
60°	4825.1	3412.6	1070.8	556.1	465.1	408.5	386.3	389.3	387.3	376.1	376.1
62.5°	4462.1	2984.9	876.7	517.7	451.0	402.4	379.2	385.2	390.3	384.2	383.2
65°	3782.7	2391.3	712.9	475.2	432.8	392.3	369.1	384.2	395.4	403.4	403.4
67.5°	2838.3	1711.9	581.4	430.7	405.5	372.1	355.9	370.1	378.2	383.2	386.3
70°	*1730.1*	*1007.1*	*458.0*	*379.2*	*366.0*	*341.8*	*329.6*	*315.5*	*304.4*	*302.3*	*303.3*
72.5°	846.3	576.3	372.1	322.6	312.4	290.2	262.9	256.8	251.8	248.7	247.7
75°	466.1	401.4	307.4	268.0	249.8	222.4	216.4	206.3	204.2	200.2	201.2
77.5°	329.6	316.5	253.8	217.4	190.1	175.9	179.0	171.9	171.9	168.9	167.8
80°	247.7	248.7	195.1	158.7	140.5	135.5	138.5	138.5	136.5	135.5	134.5
82.5°	156.7	176.9	131.4	102.1	100.1	101.1	100.1	99.1	101.1	98.1	97.1
85°	108.2	127.4	79.9	60.7	60.7	59.7	61.7	60.7	62.7	59.7	59.7
87.5°	24.3	56.6	29.3	18.2	19.2	18.2	19.2	20.2	22.2	23.3	23.3
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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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

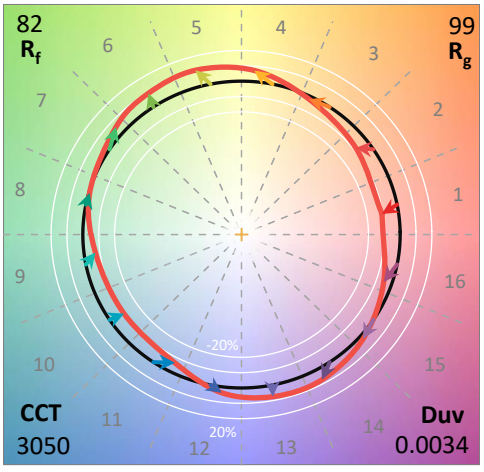
Test Information

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

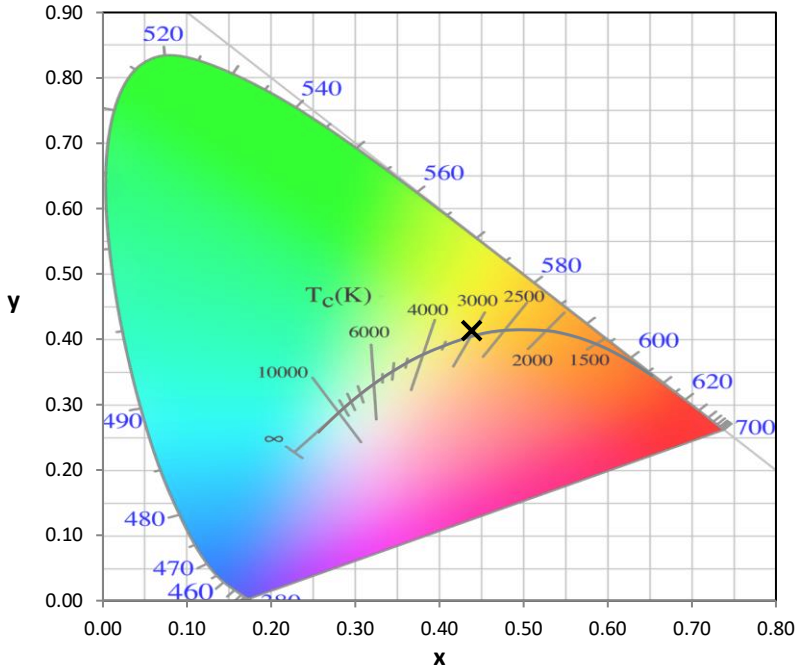
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

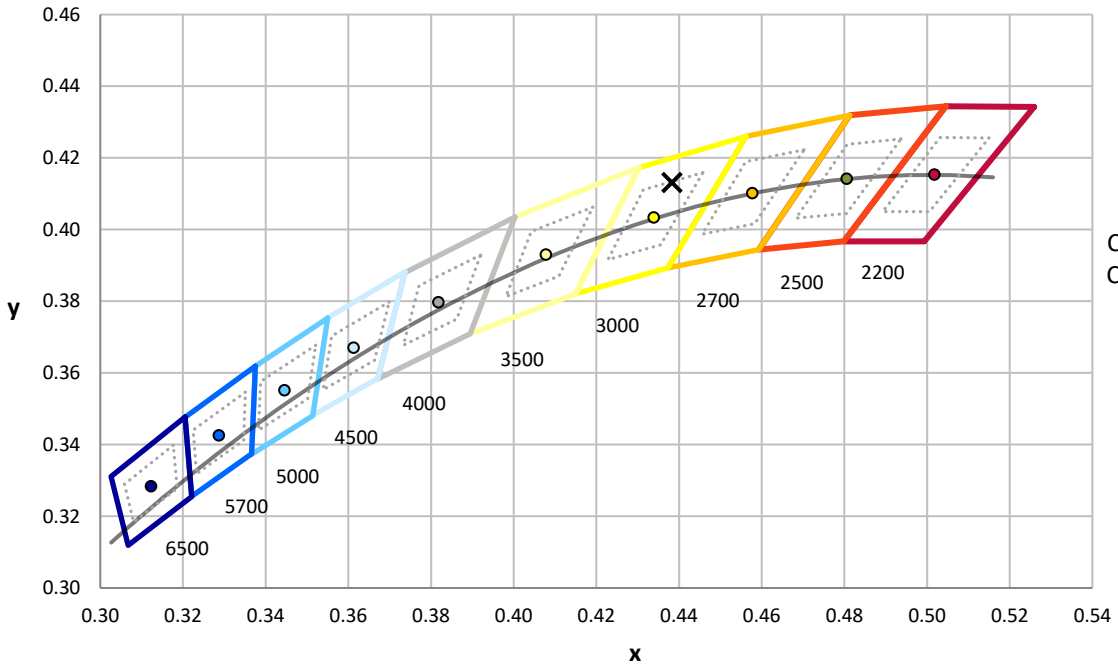
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

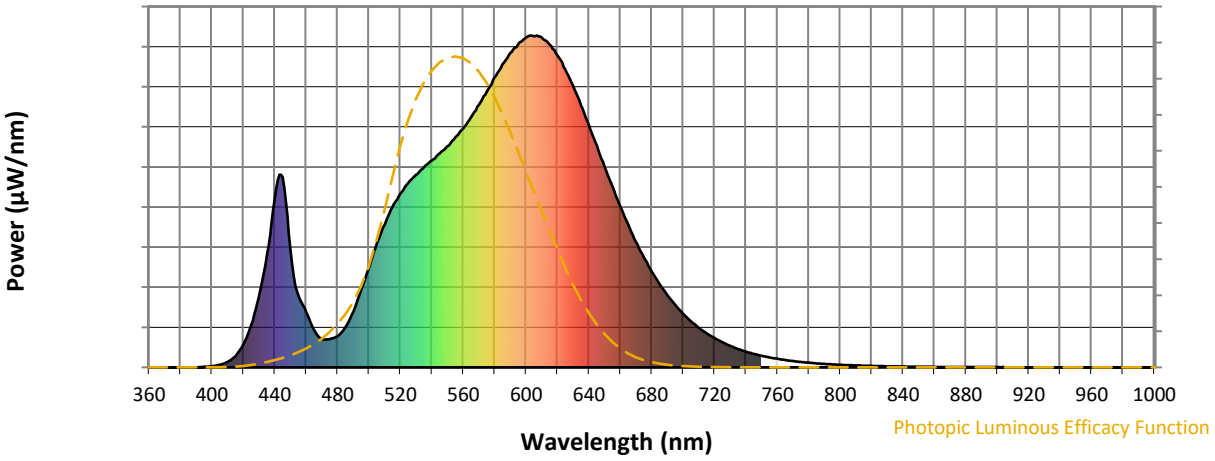


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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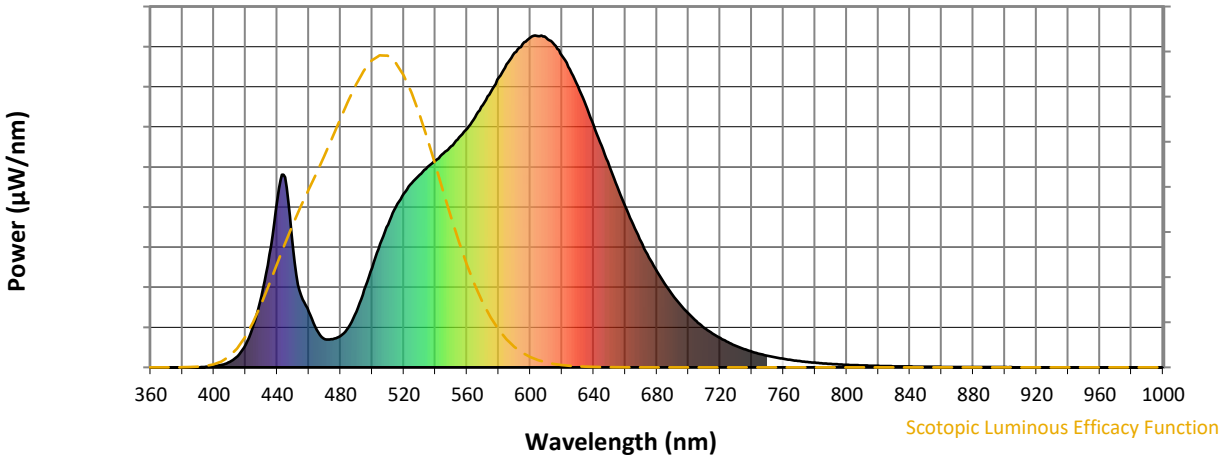
Scotopic Flux vs. Wavelength



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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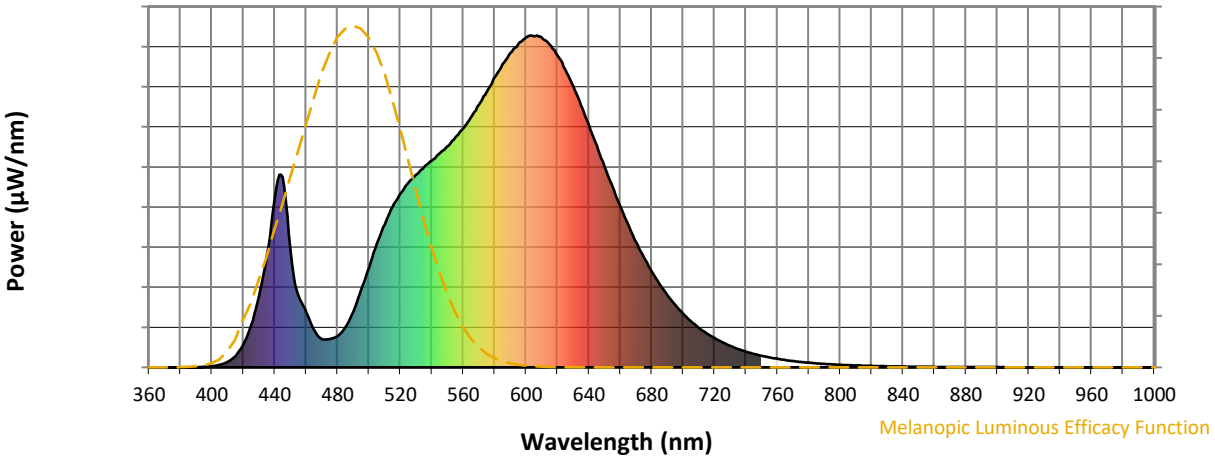
Melanopic Flux vs. Wavelength



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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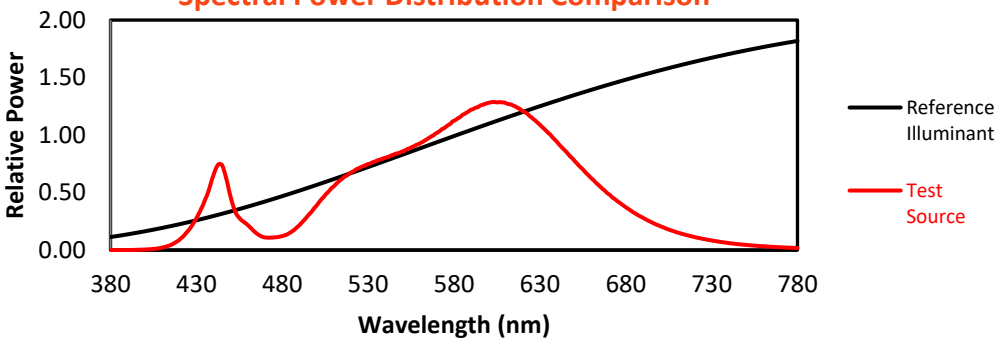
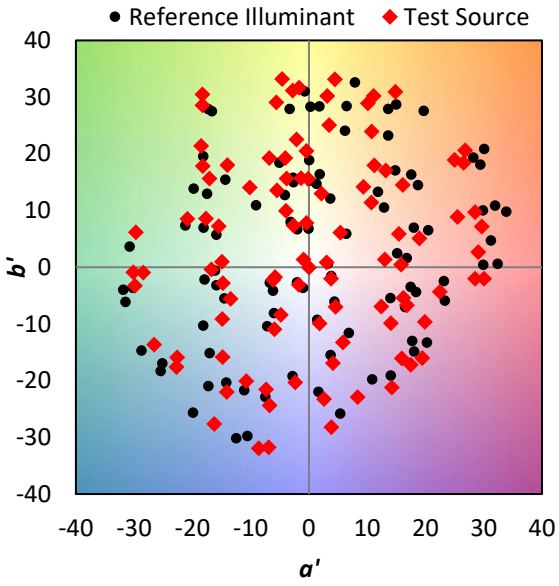
Summary

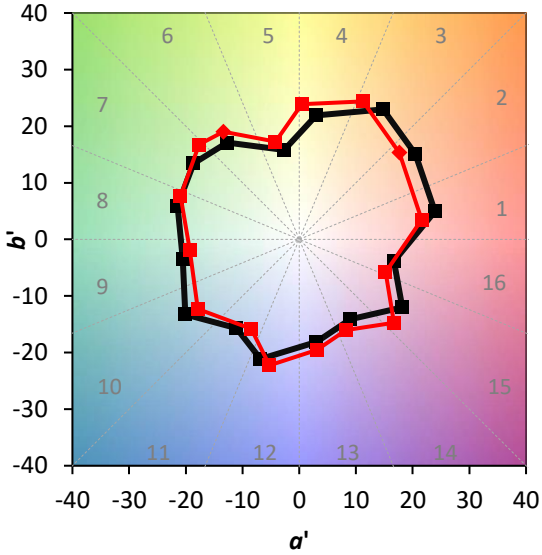
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

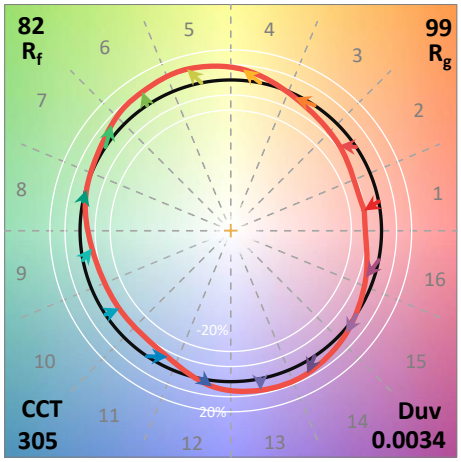
Spectral Power Distribution Comparison

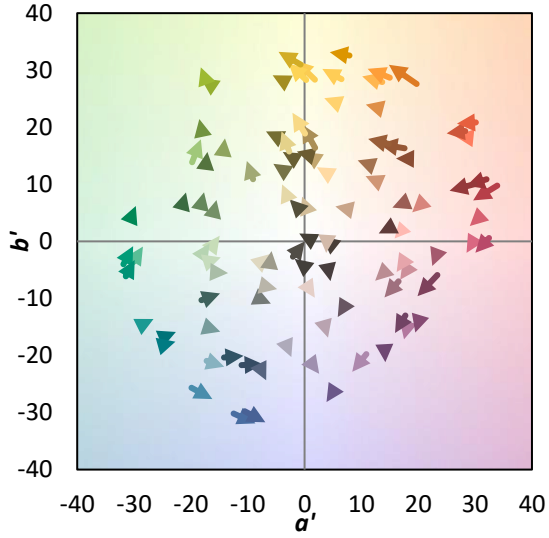


Color Vector Graphics









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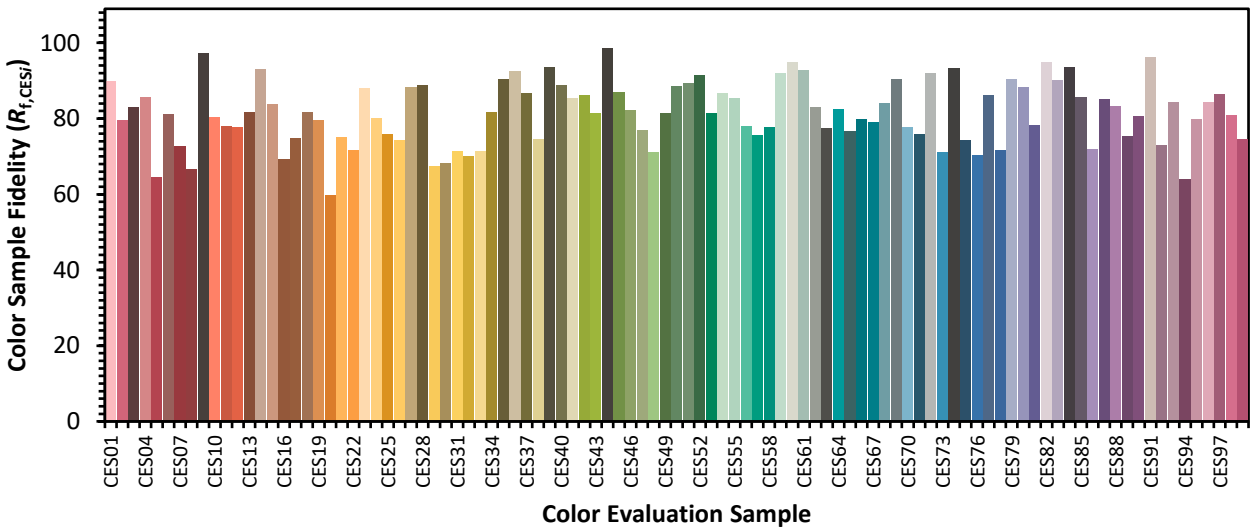
Individual Sample Fidelity Index ($R_{f,i}$)

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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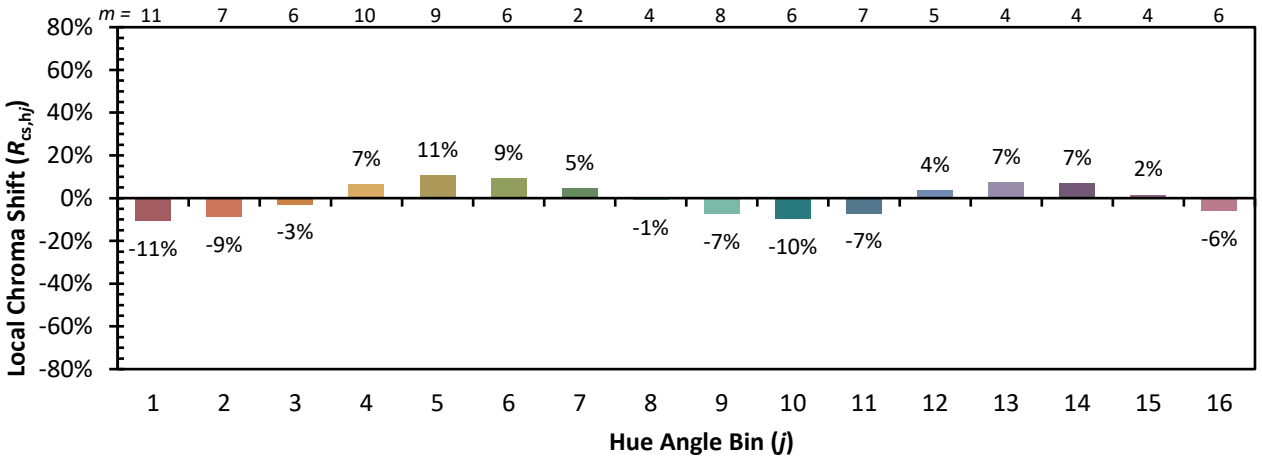
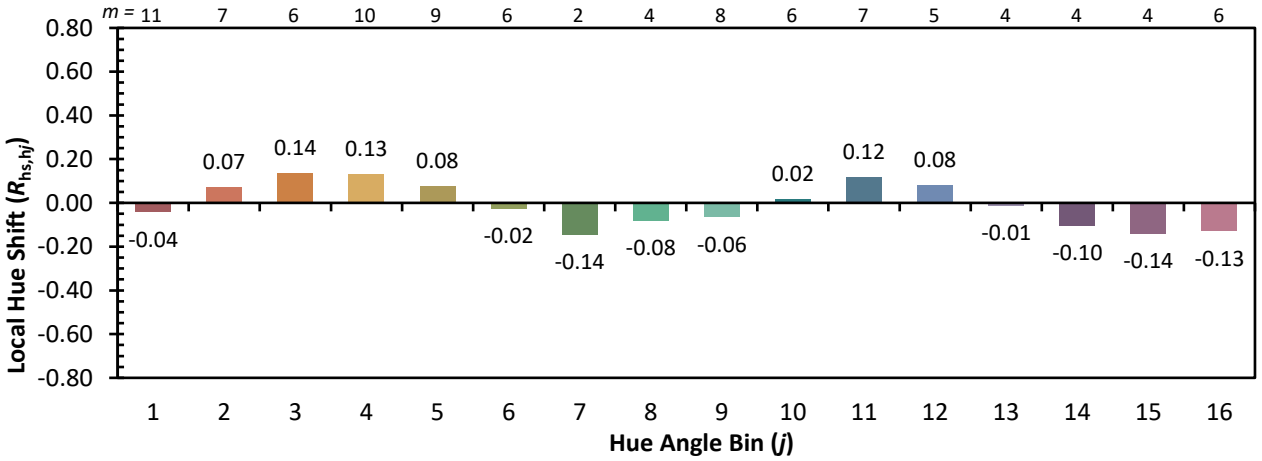
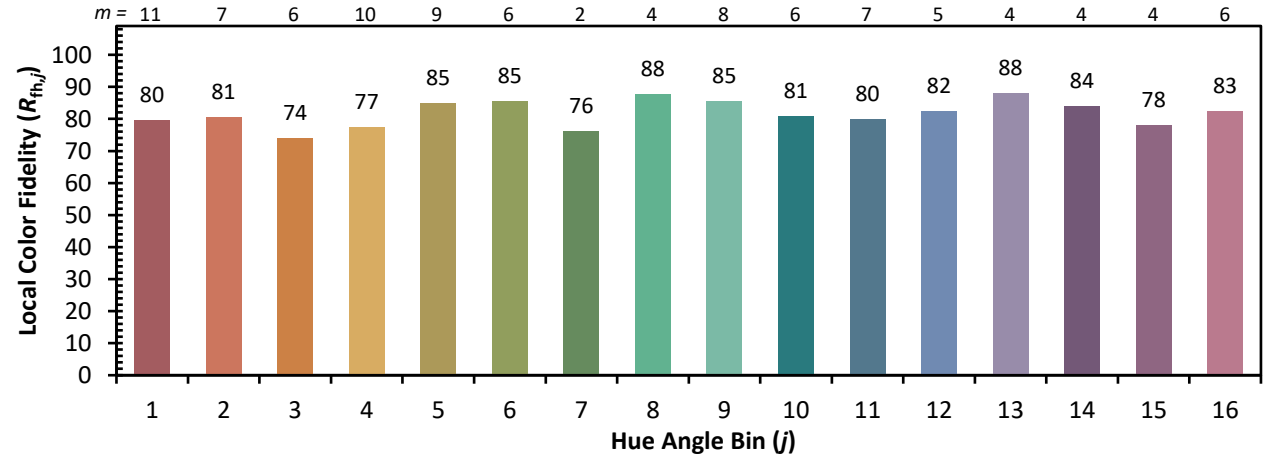
Color Rendition by Hue-Angle Bin







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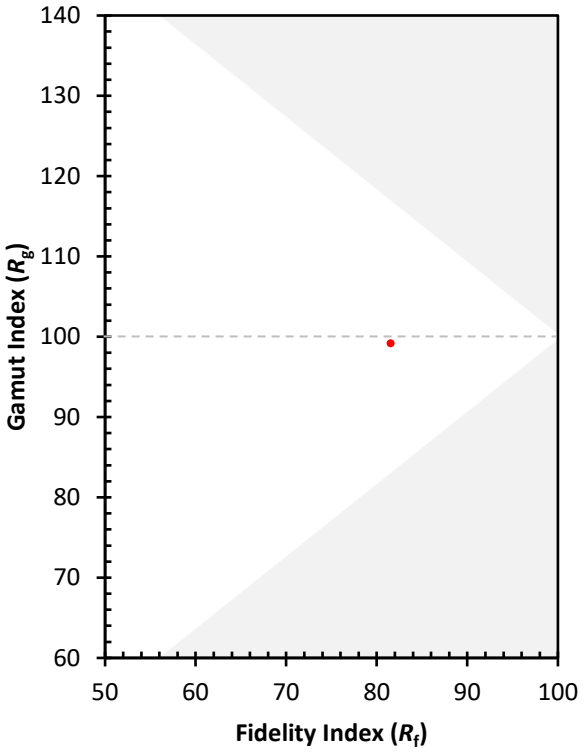
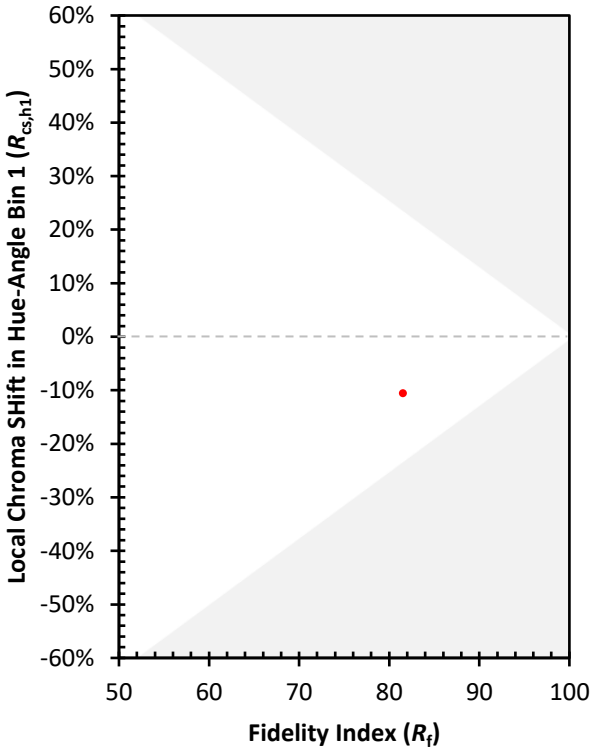
Measure Comparisons





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