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: P639978

Luminaire Tested: GWS-SA5C-830-U-T2R-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:	P639978
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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:	16648.4 lumens
Efficiency:	N/A
Efficacy:	105.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	157.5
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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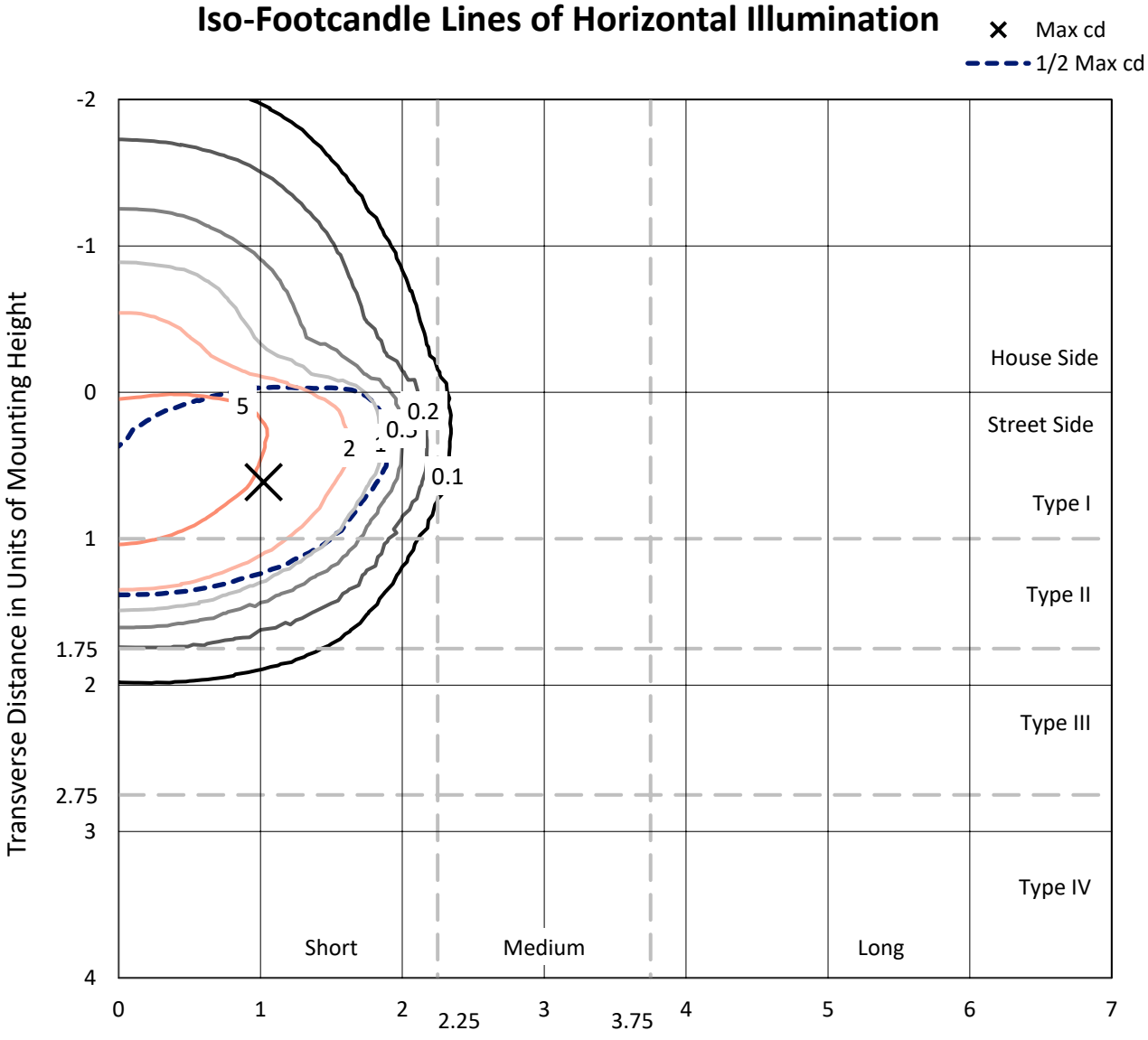
REPORT NUMBER: P639978
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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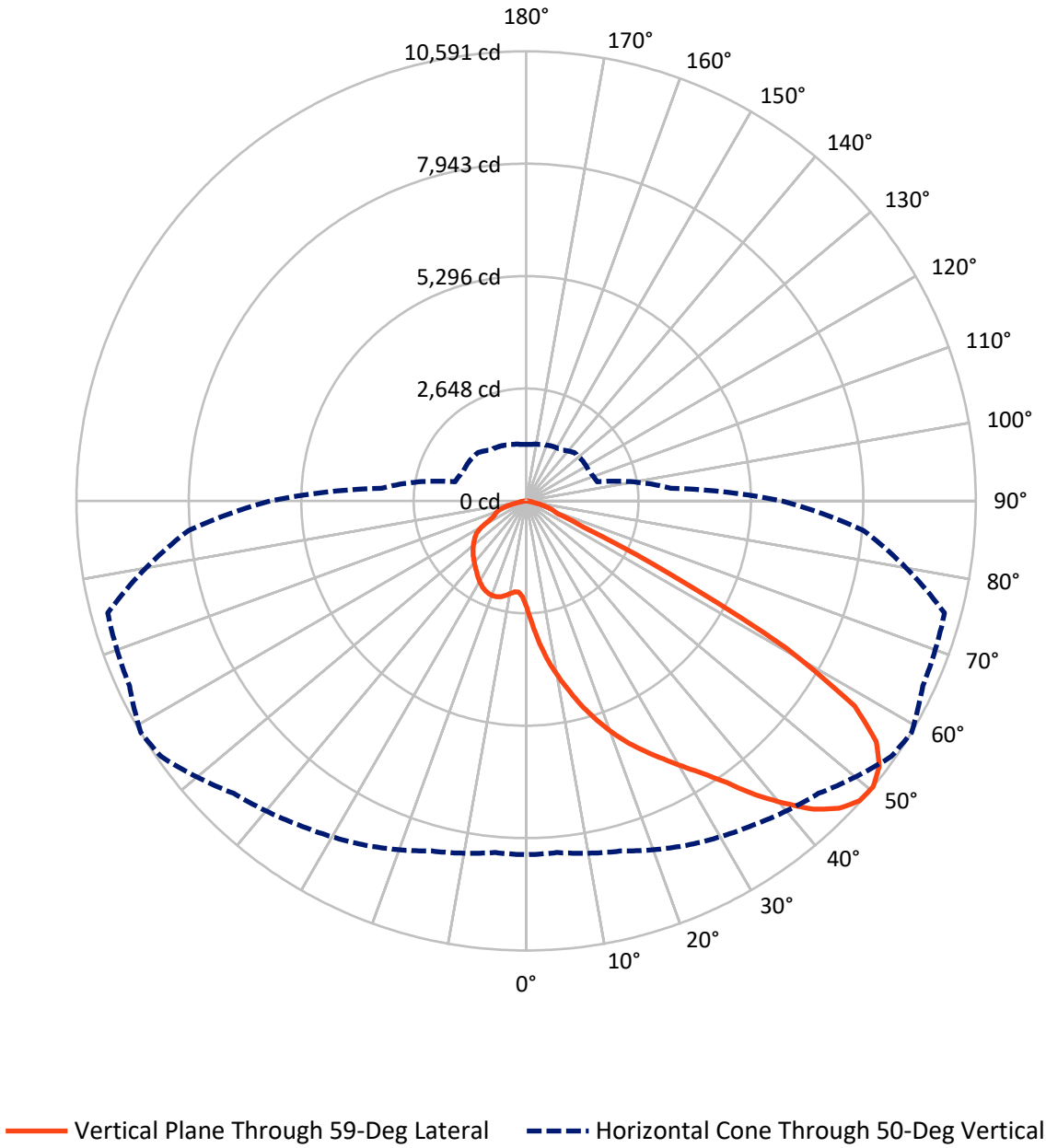
Luminous Intensity Polar Plot



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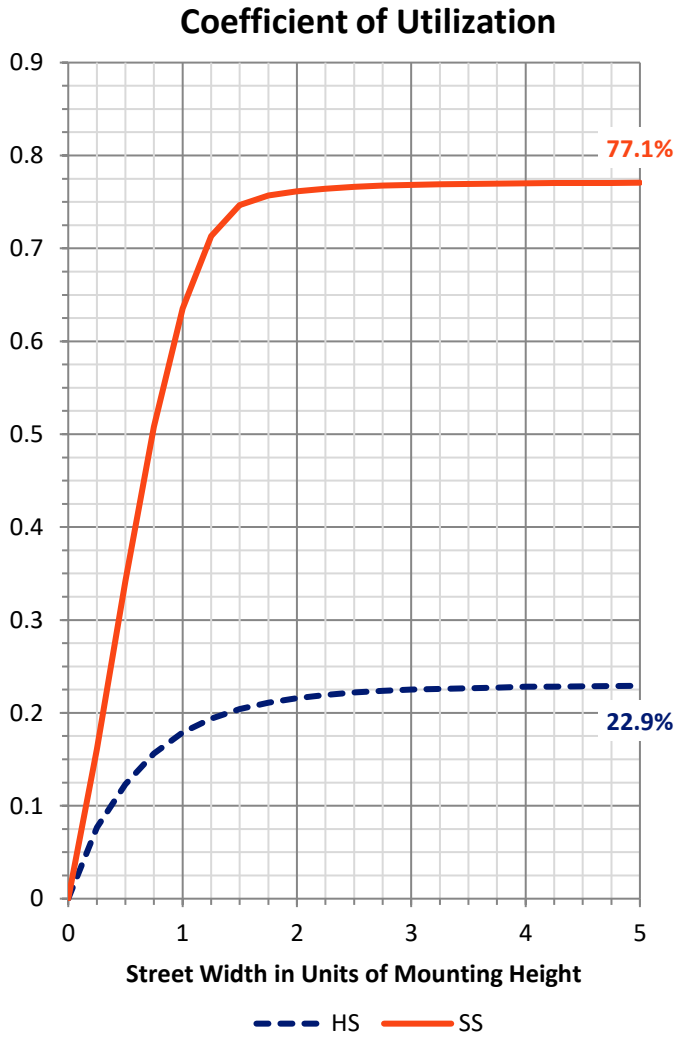
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3829.4	0.0	3829.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	12818.9	0.0	12818.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	16648.4	0.0	16648.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.0	1.7
10°-20°	1027.2	6.2
20°-30°	1945.1	11.7
30°-40°	3225.6	19.4
40°-50°	4406.4	26.5
50°-60°	3999.8	24.0
60°-70°	1332.0	8.0
70°-80°	388.5	2.3
80°-90°	40.8	0.2
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°	16648.4	100.0
0°-180°	16648.4	100.0



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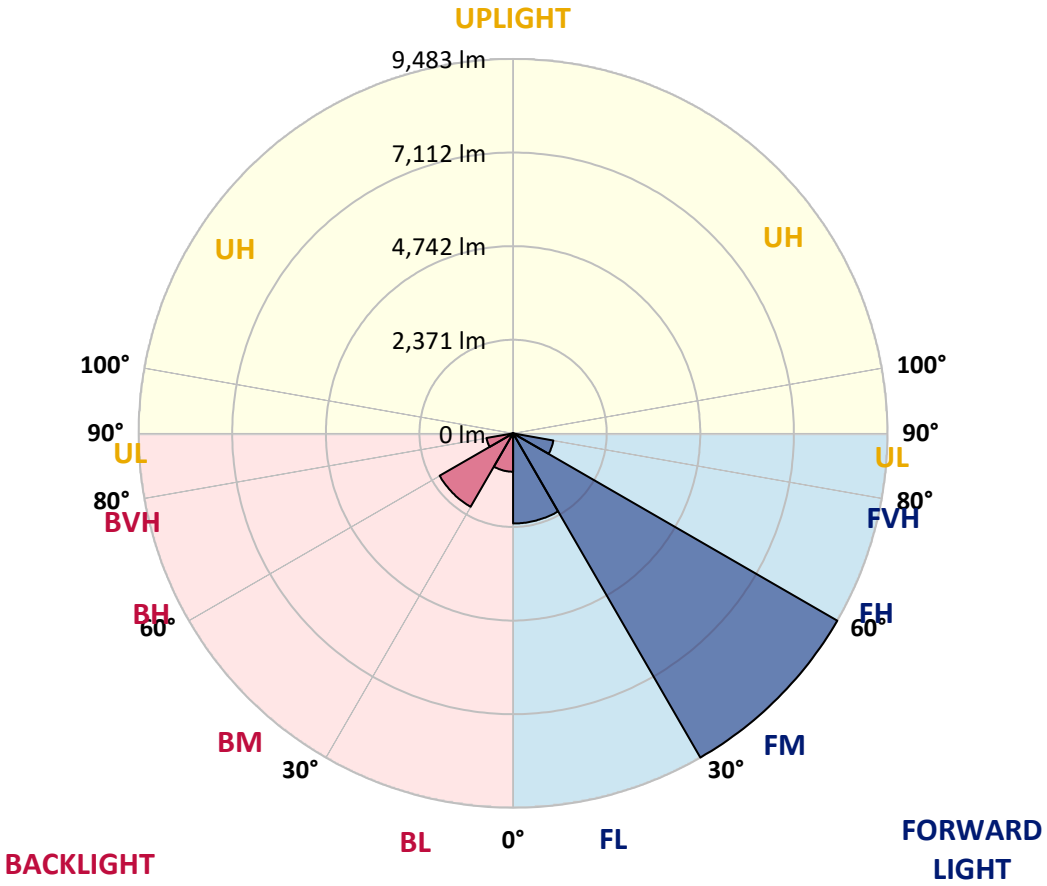
REPORT NUMBER: P639978
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2282.9	13.7			
FM	(30°-60°)	9483.1	57.0			
FH	(60°-80°)	1037.0	6.2			G1/1800
FVH	(80°-90°)	16.0	0.1			G1/100
BL	(0°-30°)	972.4	5.8	B2/1000		
BM	(30°-60°)	2148.7	12.9	B2/2500		
BH	(60°-80°)	683.5	4.1	B2/1000		G2/1000
BVH	(80°-90°)	24.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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REPORT NUMBER: P639978
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4
2.5°	3268.2	3292.6	3254.6	3257.4	3162.4	3119.0	2997.0	2925.1	2877.6	2744.8	2624.1
5°	3927.3	3898.8	3869.0	3851.3	3768.6	3652.0	3500.1	3379.4	3268.2	3007.8	2757.0
7.5°	4331.4	4316.5	4296.1	4285.3	4203.9	4081.9	3930.0	3826.9	3665.5	3313.0	2918.3
10°	4674.5	4656.9	4644.7	4652.8	4586.3	4507.7	4342.2	4224.3	4042.5	3635.7	3113.6
12.5°	4940.3	4949.8	4953.8	4997.2	4968.8	4921.3	4750.4	4625.7	4423.6	3976.1	3342.8
15°	5150.5	5147.8	5195.2	5278.0	5324.1	5294.2	5157.3	5052.8	4806.0	4311.0	3589.6
17.5°	5199.3	5202.0	5276.6	5421.7	5572.2	5645.5	5568.2	5443.4	5199.3	4641.9	3845.9
20°	5238.6	5244.0	5321.3	5486.8	5706.5	5911.3	5923.5	5834.0	5623.8	4999.9	4106.3
22.5°	5486.8	5499.0	5519.3	5623.8	5821.7	6080.8	6223.2	6204.2	6027.9	5375.6	4387.0
25°	6139.1	6102.5	6003.5	5973.6	6049.6	6259.8	6502.5	6539.1	6452.3	5789.2	4689.4
27.5°	6944.6	6905.3	6758.8	6604.2	6440.1	6513.4	6772.4	6882.2	6883.6	6244.9	4993.2
30°	7675.5	7644.3	7525.0	7304.0	7020.5	6914.8	7106.0	7253.8	7341.9	6771.0	5339.0
32.5°	8300.7	8272.2	8110.8	7930.5	7653.8	7440.9	7510.1	7652.5	7858.6	7451.8	5768.9
35°	8826.9	8798.4	8643.8	8462.1	8205.8	8078.3	8053.9	8151.5	8418.7	8162.4	6262.5
37.5°	9254.0	9225.6	9064.2	8893.3	8698.0	8706.2	8742.8	8790.3	8943.5	8923.2	6790.0
40°	9530.7	9500.9	9385.6	9263.5	9140.1	9237.8	9419.5	9362.5	9443.9	9537.5	7275.5
42.5°	9654.1	9616.1	9549.7	9522.6	9484.6	9636.5	9986.3	9929.4	9831.7	9947.0	7636.2
45°	9530.7	9498.1	9496.8	9579.5	9667.7	9862.9	10378.3	10332.1	10085.3	10145.0	7851.8
47.5°	9152.3	9123.9	9201.2	9418.1	9635.1	9919.9	10553.2	10561.3	10265.7	10227.7	7991.5
50°	8334.6	8315.6	8539.4	8950.3	9324.6	9742.2	10497.6	10591.2	10309.1	10202.0	7973.9
52.5°	6672.0	6760.2	7247.0	7933.2	8660.1	9430.3	10291.5	10413.5	10100.3	10032.4	7879.0
55°	4567.4	4608.0	5094.9	6097.0	7249.7	8755.0	9818.2	10006.7	9853.4	10004.0	7977.9
57.5°	2365.0	2397.6	2781.4	3671.0	4917.2	6918.8	8504.1	9122.5	9355.7	10147.7	8285.8
60°	971.0	998.1	1156.8	1586.6	2480.3	4029.0	6120.1	7036.8	7584.7	9267.6	7358.2
62.5°	705.2	718.7	794.7	946.6	1299.1	1974.5	3463.5	3801.2	4186.3	5808.2	4671.8
65°	594.0	608.9	669.9	762.1	947.9	1211.0	1479.5	1487.6	1639.5	2366.4	1731.7
67.5°	497.7	511.3	565.5	644.1	766.2	859.8	794.7	796.0	793.3	858.4	829.9
70°	387.8	398.7	452.9	537.0	600.8	551.9	621.1	687.5	659.1	684.8	724.2
72.5°	283.4	295.6	343.1	406.8	390.6	393.3	503.1	570.9	554.6	583.1	619.7
75°	204.8	212.9	237.3	203.4	214.3	259.0	353.9	390.6	406.8	431.2	463.8
77.5°	66.4	66.4	74.6	93.6	116.6	143.7	180.4	195.3	219.7	246.8	269.9
80°	33.9	35.3	42.0	51.5	65.1	82.7	105.8	112.6	124.8	139.7	149.2
82.5°	16.3	17.6	20.3	25.8	33.9	43.4	58.3	65.1	73.2	82.7	89.5
85°	4.1	4.1	5.4	8.1	10.8	16.3	21.7	25.8	32.5	39.3	43.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.1	5.4	6.8	8.1	10.8
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: P639978
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4
2.5°	2569.8	2493.9	2396.2	2313.5	2237.6	2179.3	2129.1	2104.7	2081.6	2065.3	2070.8
5°	2640.3	2510.1	2328.4	2202.3	2125.0	2085.7	2058.6	2045.0	2042.3	2031.4	2027.4
7.5°	2743.4	2557.6	2314.9	2187.4	2135.9	2115.5	2100.6	2092.5	2096.5	2085.7	2081.6
10°	2870.9	2636.3	2348.8	2236.2	2191.5	2176.5	2160.3	2149.4	2144.0	2127.7	2125.0
12.5°	3029.5	2733.9	2409.8	2298.6	2253.8	2228.1	2206.4	2187.4	2175.2	2154.8	2149.4
15°	3200.4	2842.4	2481.7	2359.6	2306.7	2268.8	2233.5	2205.0	2183.3	2156.2	2152.1
17.5°	3386.2	2956.3	2541.3	2401.7	2333.9	2283.7	2232.1	2190.1	2160.3	2125.0	2120.9
20°	3580.1	3071.6	2586.1	2422.0	2335.2	2267.4	2198.2	2142.6	2104.7	2069.4	2066.7
22.5°	3780.8	3177.3	2613.2	2416.6	2313.5	2229.4	2146.7	2084.3	2039.6	1997.5	1994.8
25°	3982.9	3279.1	2620.0	2394.9	2270.1	2172.5	2089.8	2016.5	1966.3	1918.9	1913.5
27.5°	4187.6	3364.5	2603.7	2351.5	2211.8	2106.0	2023.3	1951.4	1899.9	1852.4	1844.3
30°	4406.0	3437.7	2568.5	2294.5	2144.0	2035.5	1954.1	1899.9	1851.1	1803.6	1795.5
32.5°	4639.2	3501.5	2518.3	2225.4	2065.3	1965.0	1905.3	1856.5	1807.7	1765.6	1757.5
35°	4917.2	3543.5	2443.7	2135.9	1992.1	1913.5	1872.8	1815.8	1756.2	1710.0	1706.0
37.5°	5204.7	3576.0	2354.2	2050.4	1928.4	1883.6	1849.7	1772.4	1697.8	1642.2	1635.5
40°	5482.7	3603.2	2243.0	1970.4	1870.1	1861.9	1815.8	1719.5	1590.7	1528.3	1522.9
42.5°	5741.7	3611.3	2126.4	1885.0	1817.2	1813.1	1761.6	1612.4	1513.4	1474.1	1468.7
45°	5919.4	3604.5	2005.7	1805.0	1764.3	1742.6	1688.3	1535.1	1474.1	1438.8	1432.0
47.5°	6050.9	3569.3	1870.1	1720.9	1704.6	1674.8	1558.2	1486.3	1429.3	1394.1	1387.3
50°	*6027.9*	*3422.8*	*1733.1*	*1639.5*	*1632.7*	*1607.0*	*1463.2*	*1425.3*	*1375.1*	*1337.1*	*1331.7*
52.5°	5908.5	3144.8	1593.4	1550.0	1563.6	1513.4	1395.4	1352.0	1308.6	1265.2	1255.8
55°	5938.4	2944.1	1487.6	1463.2	1487.6	1373.7	1319.5	1273.4	1232.7	1190.7	1182.5
57.5°	6068.6	2746.1	1375.1	1369.7	1395.4	1266.6	1221.8	1163.5	1105.2	1071.3	1071.3
60°	5096.2	2001.6	1177.1	1190.7	1249.0	1179.8	1140.5	1080.8	1017.1	987.2	987.2
62.5°	3013.3	1255.8	976.4	961.5	998.1	1041.5	1063.2	1014.4	938.4	899.1	900.5
65°	1327.6	914.0	861.1	848.9	838.1	867.9	927.6	931.6	851.6	805.5	806.9
67.5°	817.7	827.2	805.5	796.0	786.5	781.1	775.7	778.4	756.7	714.7	713.3
70°	737.7	763.5	748.6	740.4	728.2	718.7	686.2	633.3	596.7	585.8	598.0
72.5°	634.7	669.9	661.8	657.7	642.8	619.7	576.3	524.8	481.4	454.3	459.7
75°	478.7	507.2	511.3	512.6	496.3	474.6	429.9	386.5	348.5	320.0	326.8
77.5°	275.3	291.6	295.6	299.7	287.5	279.4	249.5	218.3	198.0	168.2	176.3
80°	153.2	160.0	160.0	161.4	154.6	145.1	124.8	107.1	97.6	84.1	85.4
82.5°	92.2	94.9	96.3	97.6	93.6	84.1	69.2	57.0	51.5	44.8	43.4
85°	44.8	47.5	47.5	48.8	42.0	36.6	28.5	21.7	19.0	13.6	14.9
87.5°	10.8	12.2	12.2	10.8	9.5	6.8	4.1	1.4	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

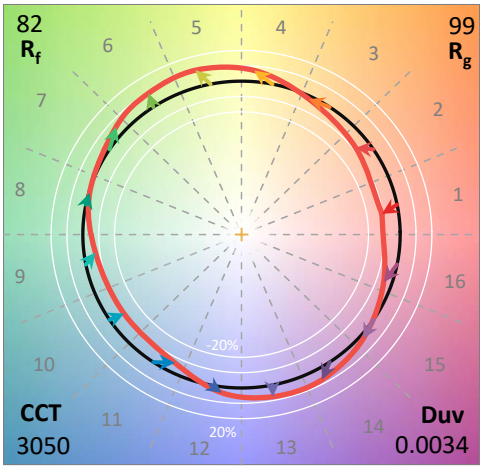
Test Information

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

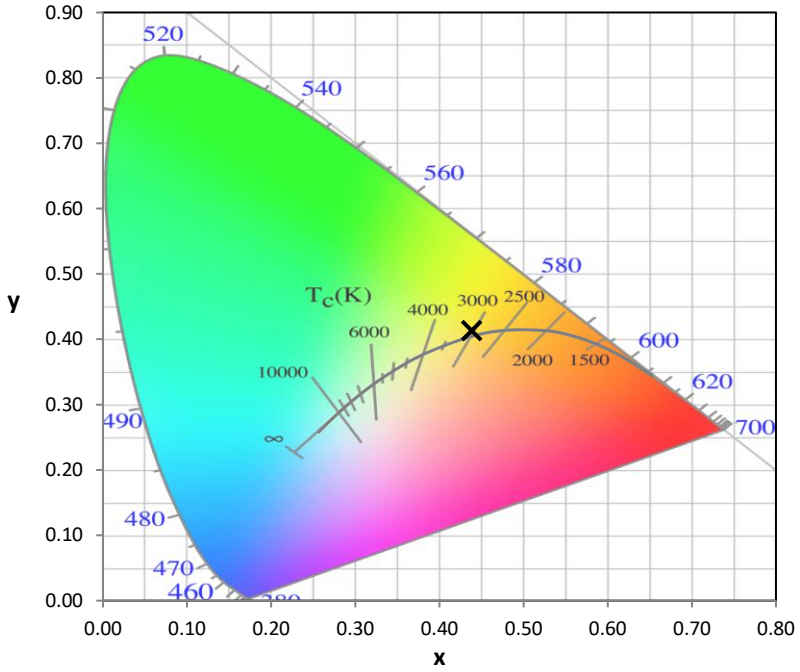
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

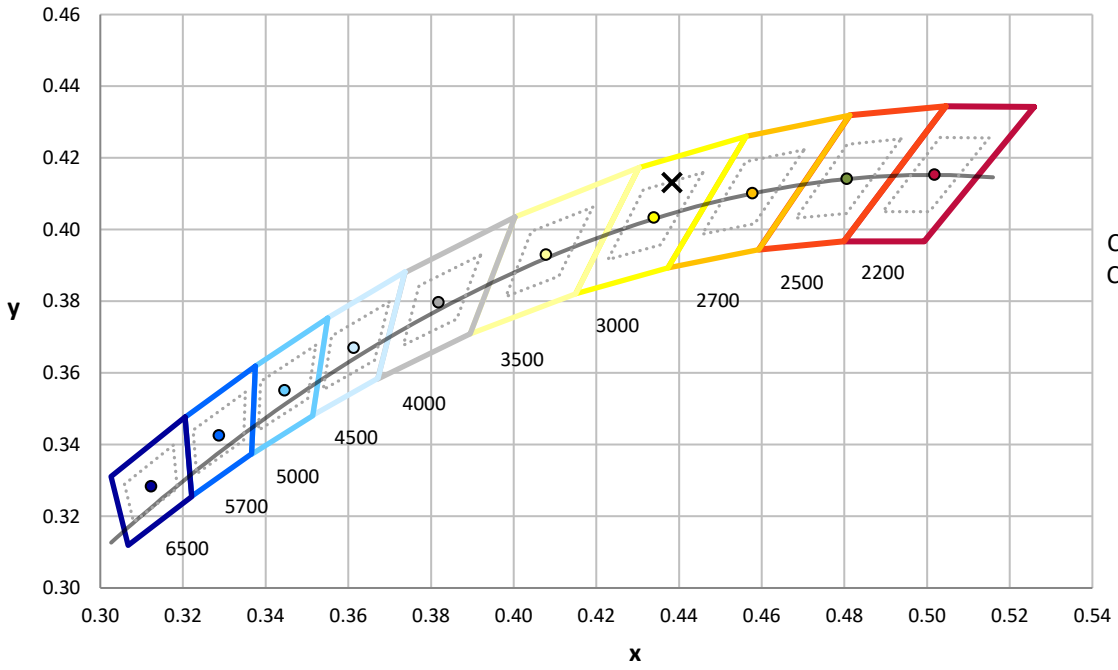
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

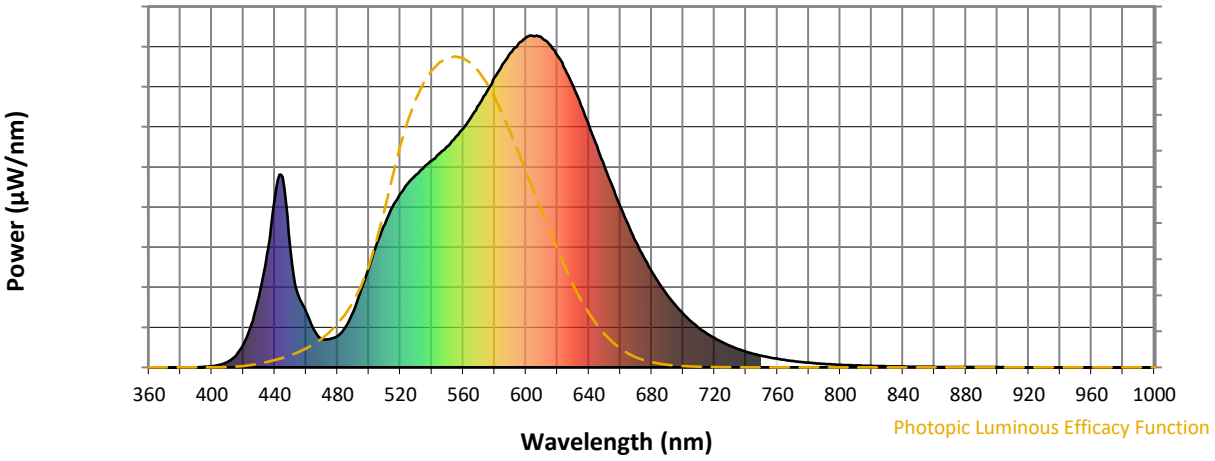


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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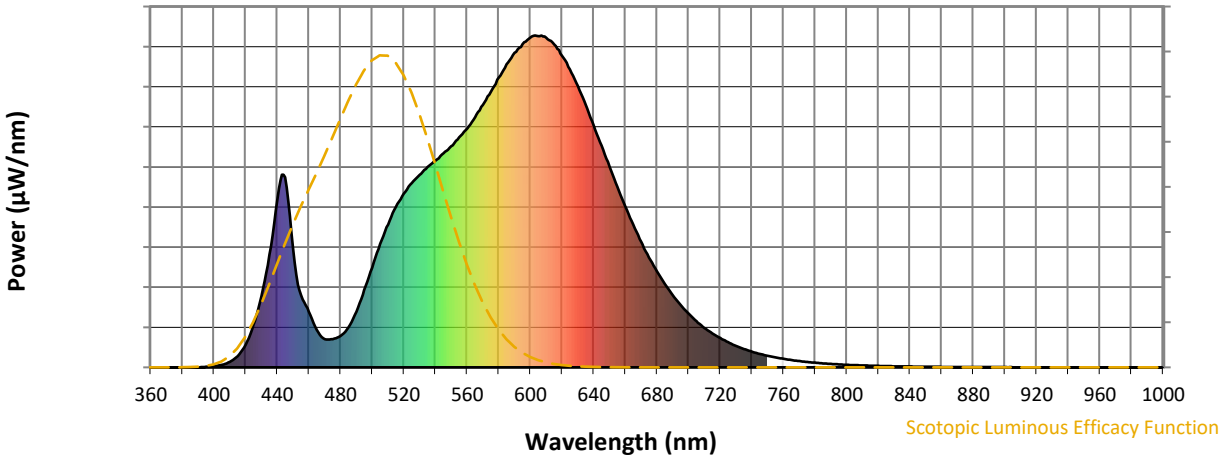
Scotopic Flux vs. Wavelength



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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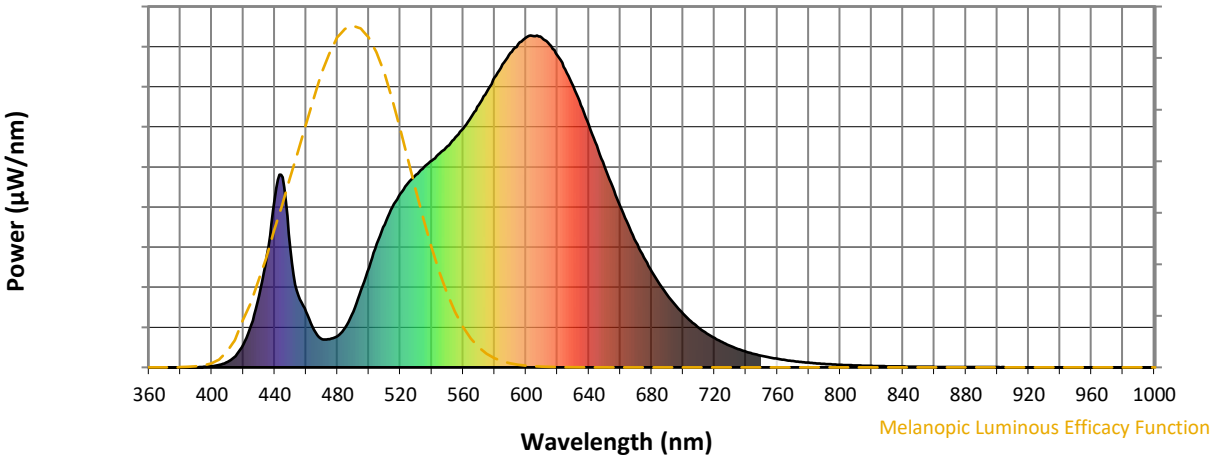
Melanopic Flux vs. Wavelength



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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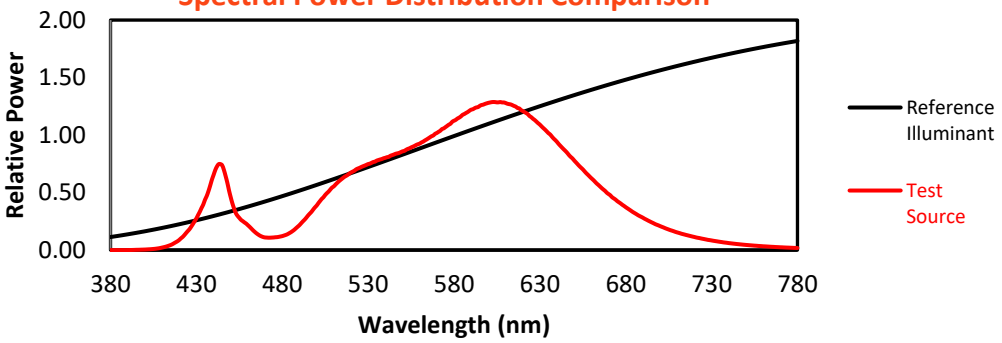
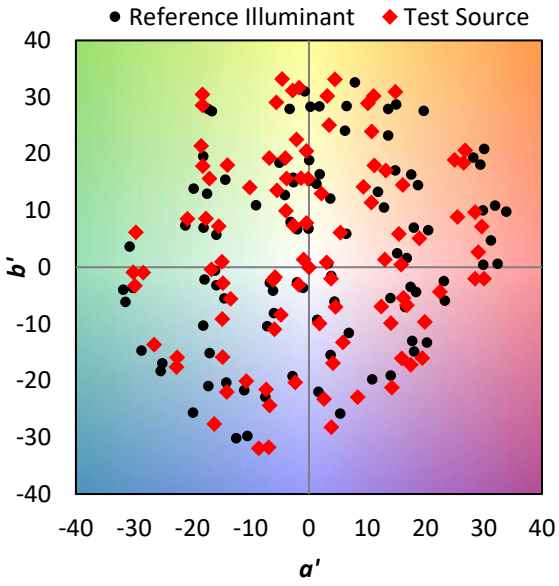
Summary

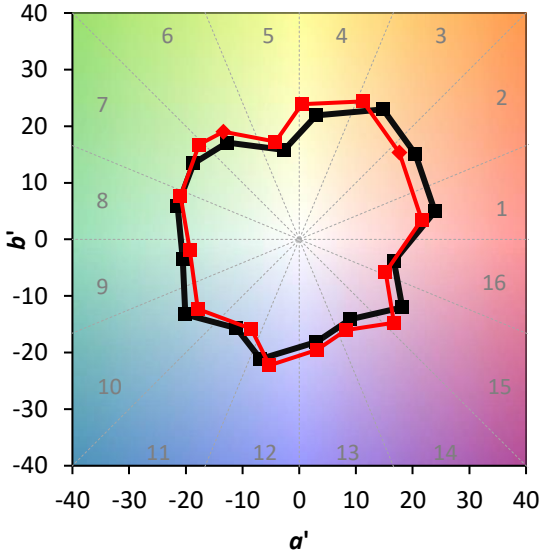
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

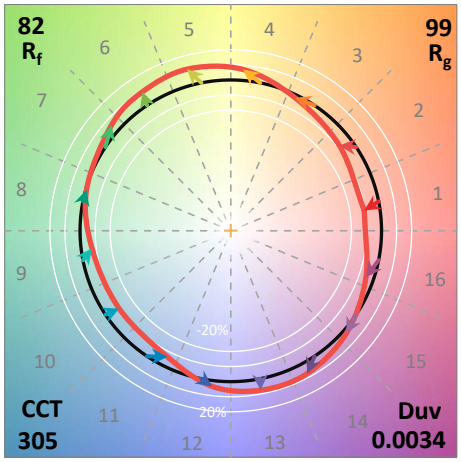
Spectral Power Distribution Comparison

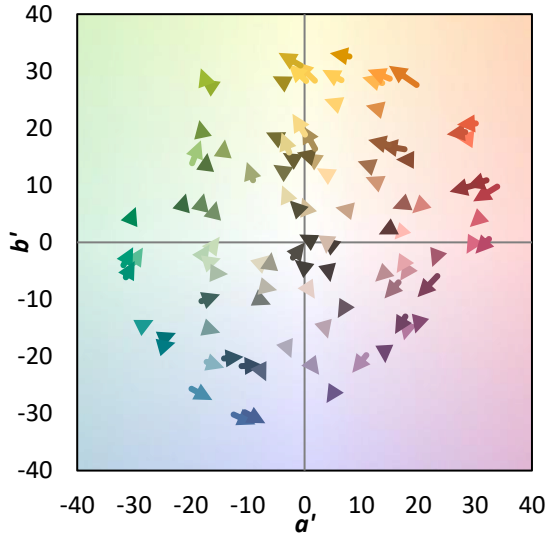


Color Vector Graphics









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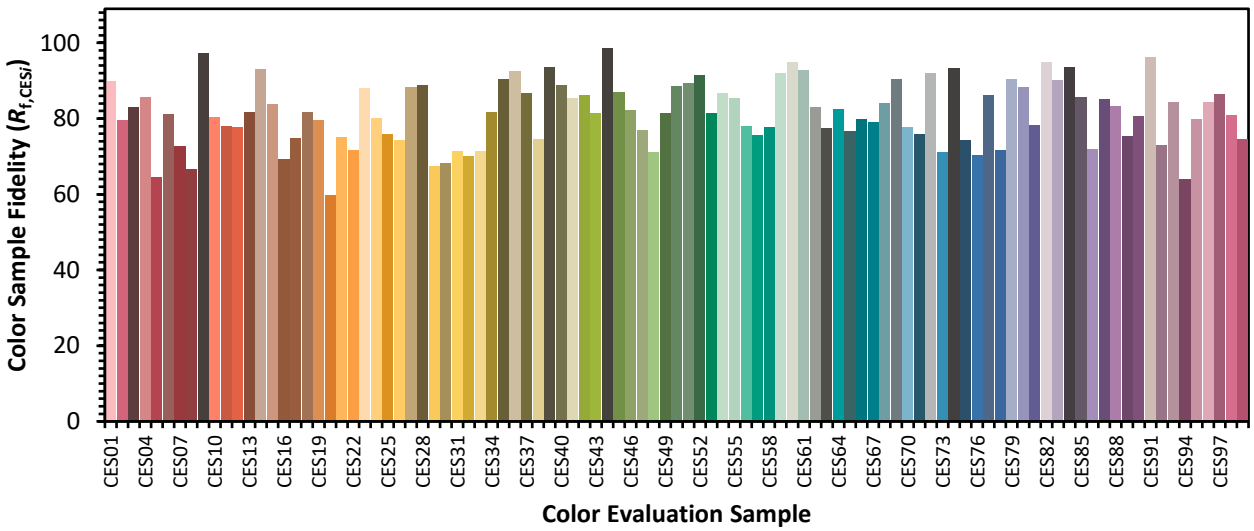
Individual Sample Fidelity Index ($R_{f,i}$)

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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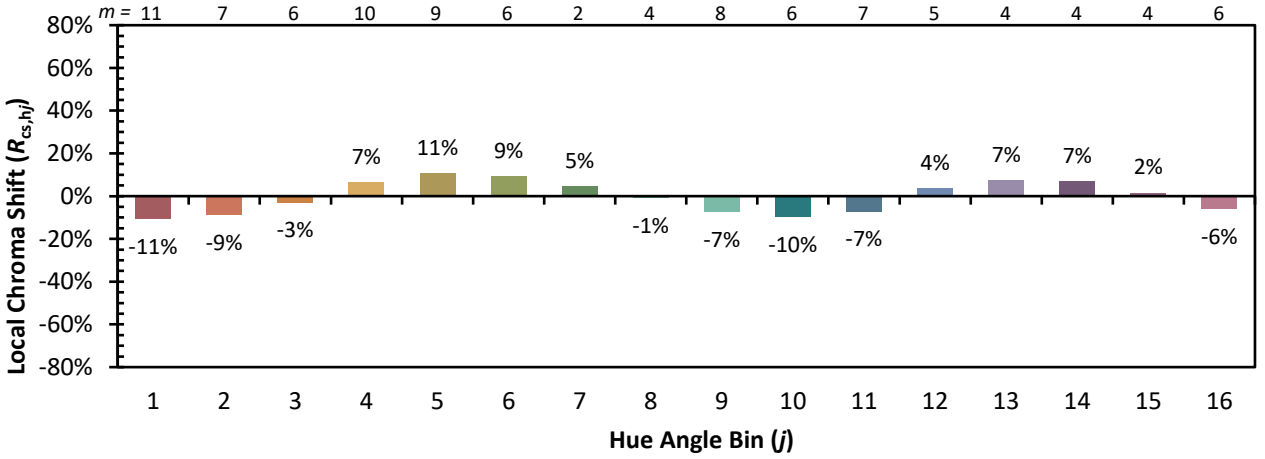
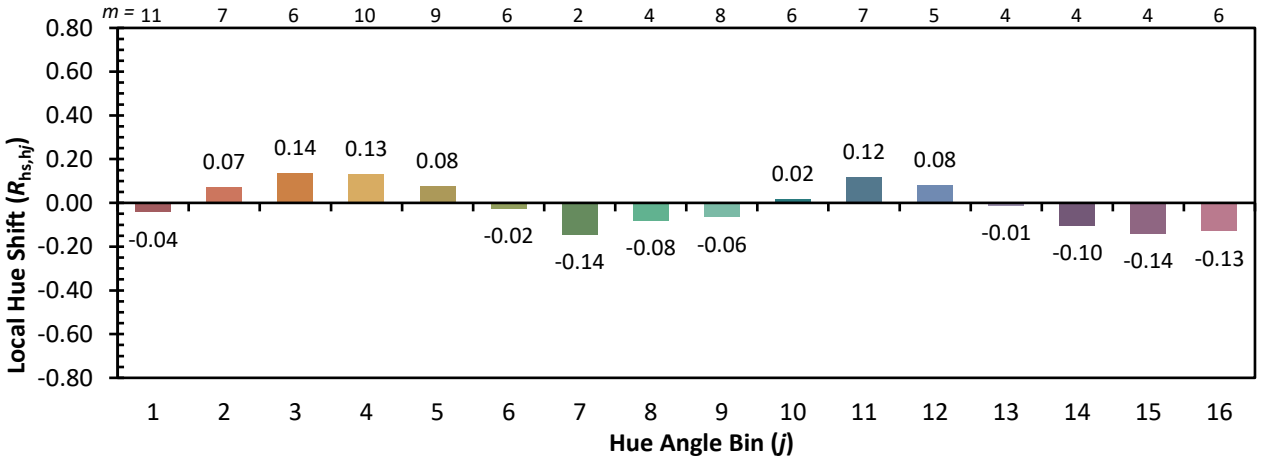
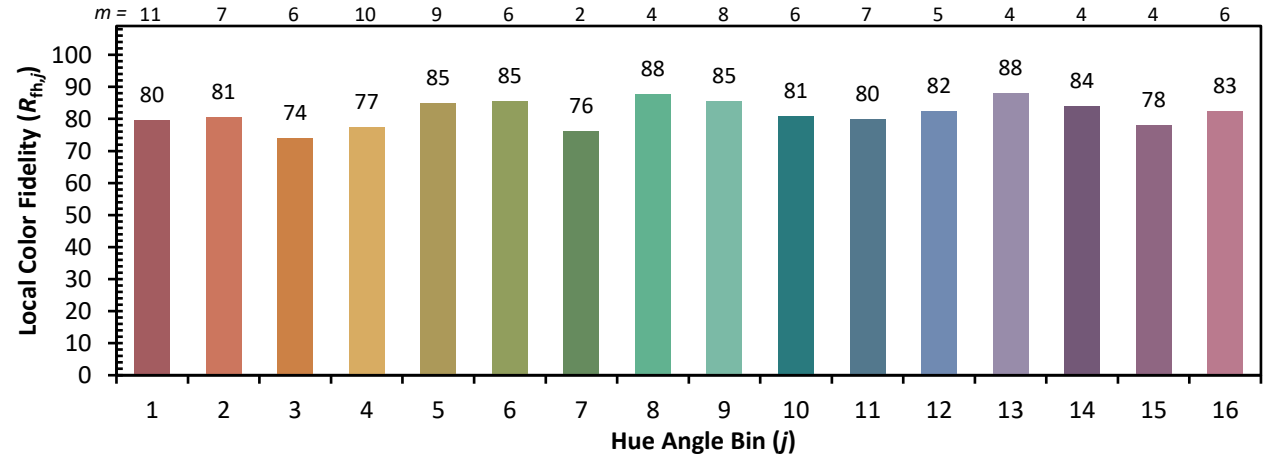
Color Rendition by Hue-Angle Bin







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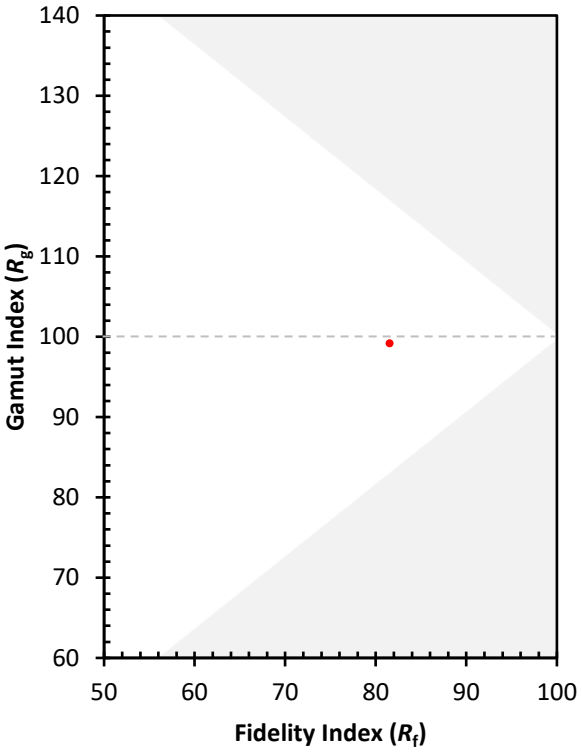
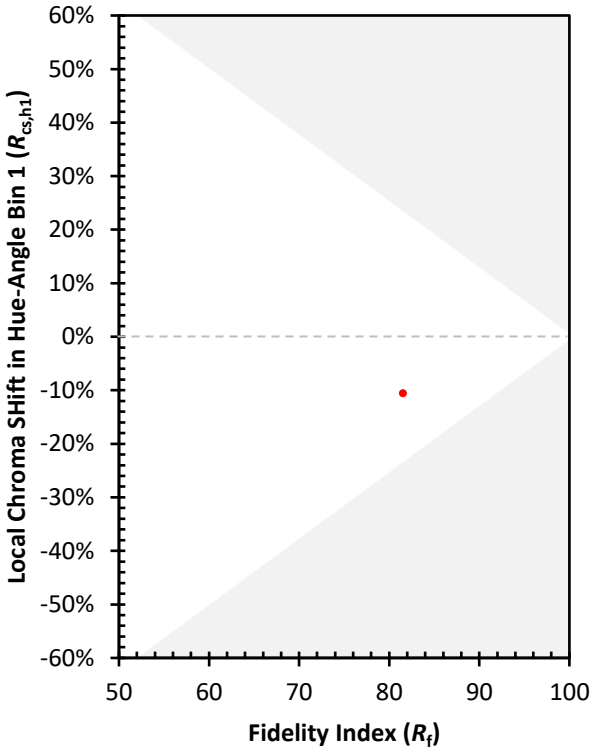
Measure Comparisons





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