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: P640468

Luminaire Tested: GWS-SA5D-830-U-T2-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:	P640468
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5D-830-U-T2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14175.3 lumens
Efficiency:	N/A
Efficacy:	69.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	204.6
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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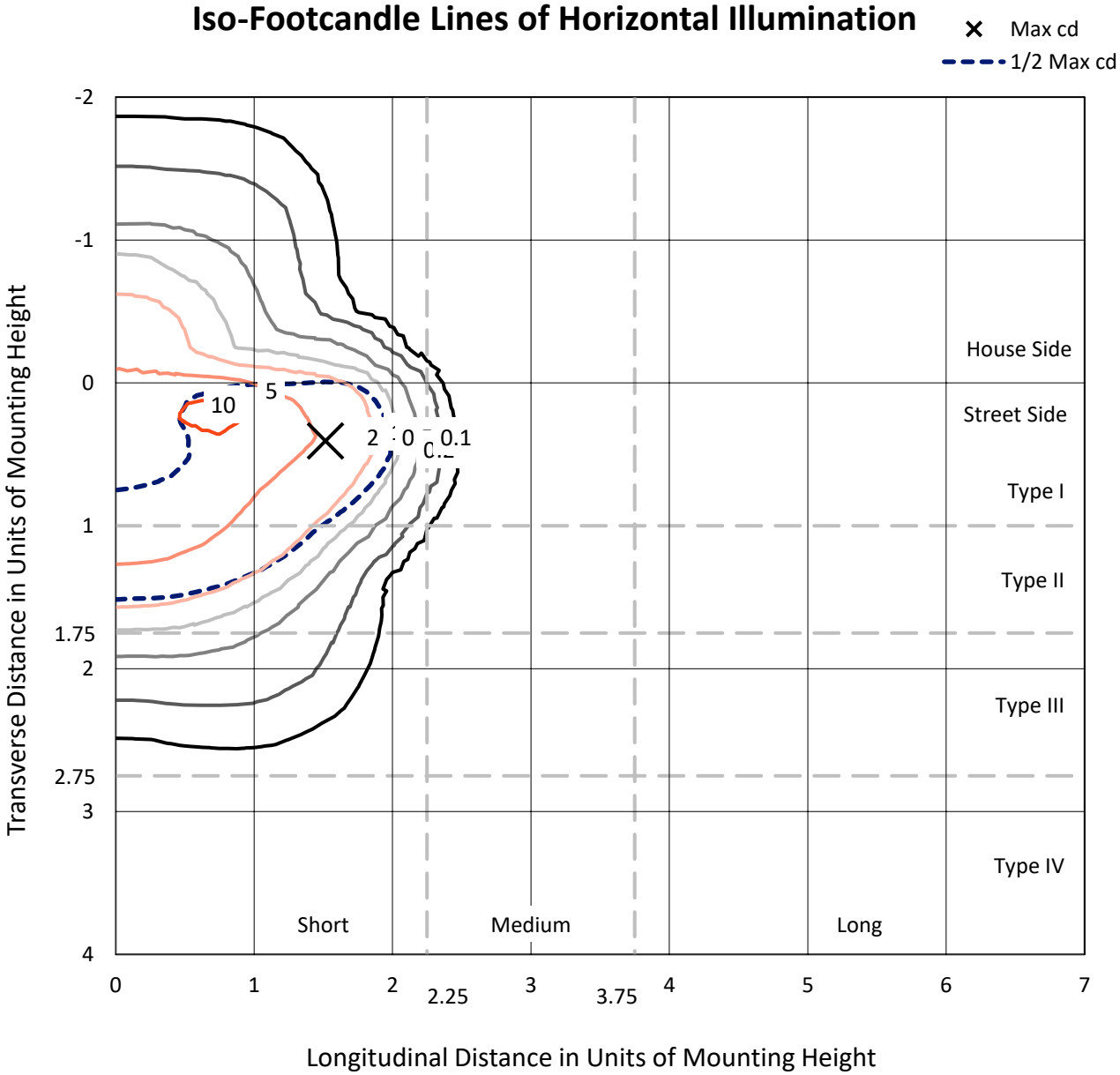
REPORT NUMBER: P640468
CATALOG NUMBER: GWS-SA5D-830-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

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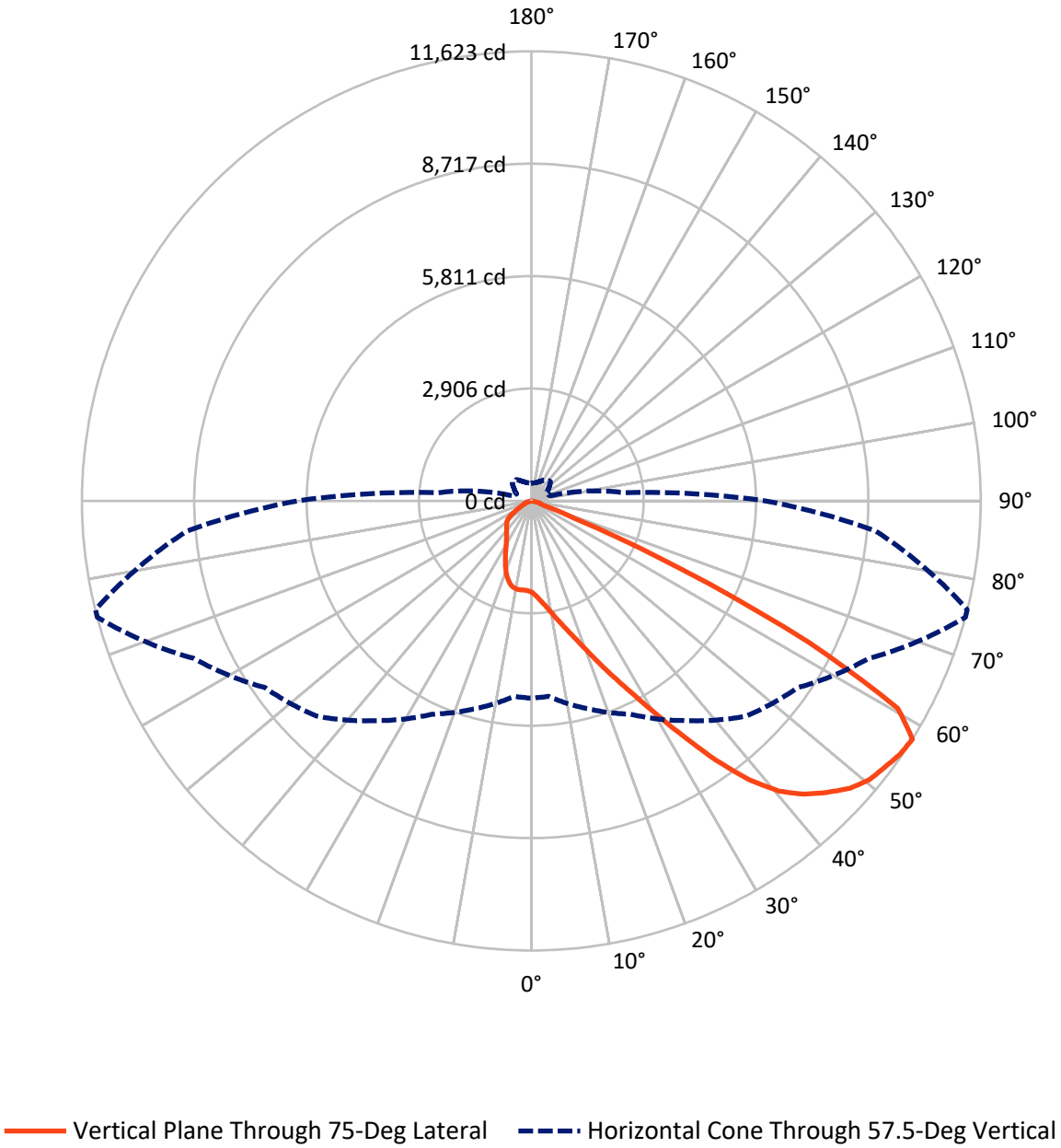
Luminous Intensity Polar Plot



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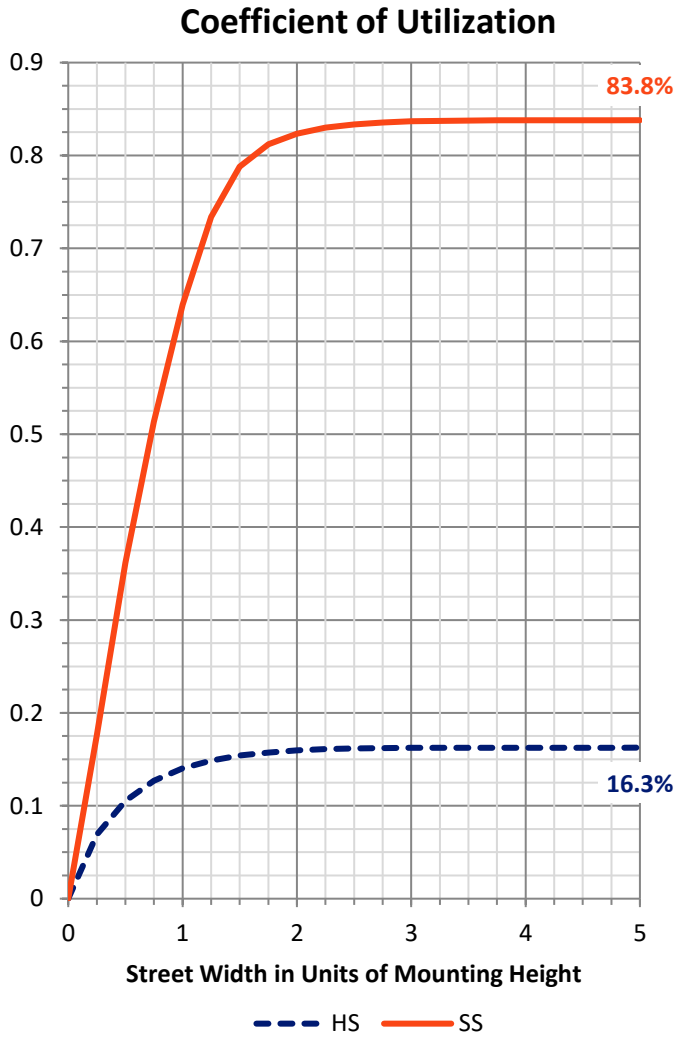
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.5	0.0	2315.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11859.8	0.0	11859.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	14175.3	0.0	14175.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	1.7
10°-20°	781.5	5.5
20°-30°	1431.1	10.1
30°-40°	2374.4	16.8
40°-50°	3626.3	25.6
50°-60°	4074.7	28.7
60°-70°	1502.9	10.6
70°-80°	143.7	1.0
80°-90°	0.1	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°	14175.3	100.0
0°-180°	14175.3	100.0



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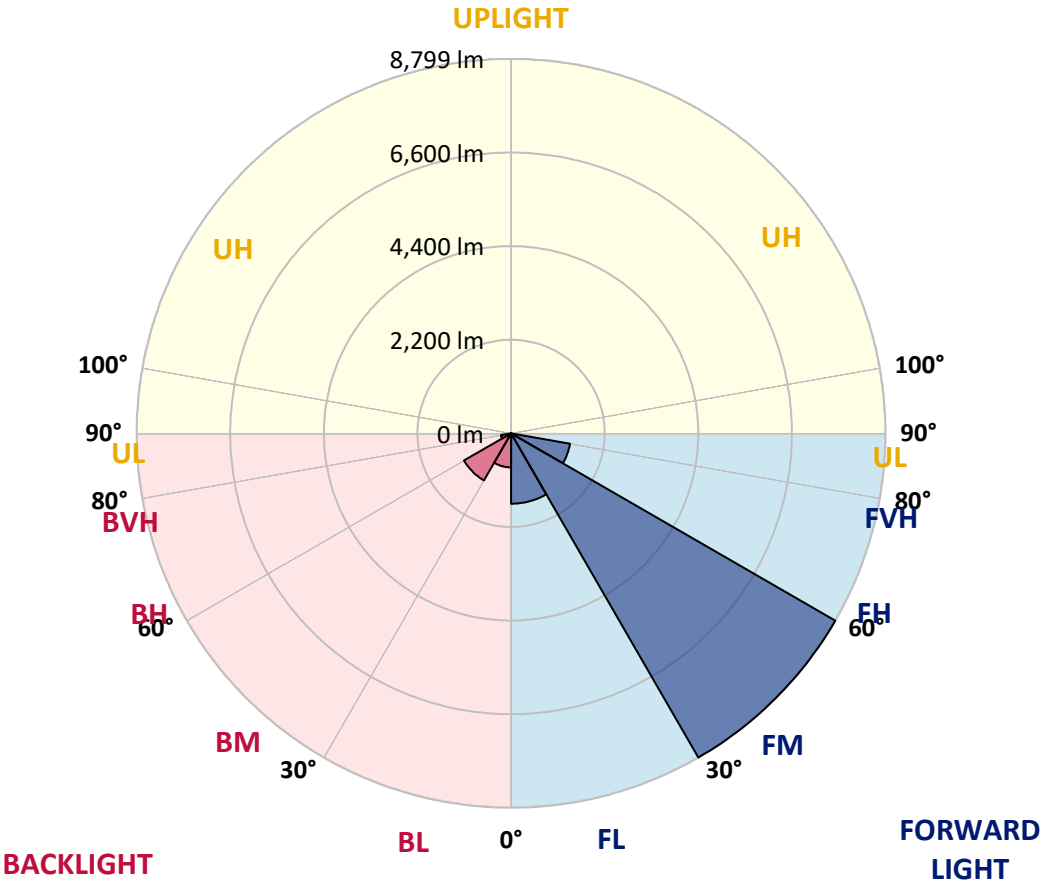
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1654.2	11.7			
FM	(30°-60°)	8799.4	62.1			
FH	(60°-80°)	1406.1	9.9			G1/1800
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	799.0	5.6	B2/1000		
BM	(30°-60°)	1276.0	9.0	B2/2500		
BH	(60°-80°)	240.5	1.7	B1/500		G1/500
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2
2.5°	2641.4	2668.8	2660.2	2643.1	2632.8	2596.9	2574.7	2509.7	2463.5	2458.3	2415.6
5°	2975.0	2969.8	2963.0	2942.5	2925.4	2868.9	2802.2	2692.7	2595.2	2583.2	2492.5
7.5°	3158.0	3161.4	3164.9	3161.4	3149.5	3106.7	3033.1	2904.8	2756.0	2745.7	2602.0
10°	3233.3	3240.1	3257.2	3289.8	3318.8	3315.4	3272.6	3140.9	2957.9	2940.8	2747.4
12.5°	3269.2	3277.8	3305.1	3366.7	3445.4	3507.0	3513.9	3395.8	3194.0	3166.6	2920.2
15°	3318.8	3327.4	3361.6	3442.0	3556.6	3678.1	3756.8	3681.5	3455.7	3426.6	3110.1
17.5°	3341.1	3353.1	3402.7	3508.7	3657.6	3844.0	4021.9	4015.1	3765.3	3743.1	3330.8
20°	3383.8	3392.4	3436.9	3551.5	3731.1	3999.7	4299.1	4406.9	4143.4	4110.9	3597.7
22.5°	3519.0	3522.4	3542.9	3614.8	3782.4	4112.6	4581.4	4863.6	4589.9	4547.1	3897.1
25°	3739.7	3738.0	3746.5	3758.5	3881.7	4227.2	4853.4	5378.6	5101.4	5055.2	4235.8
27.5°	4020.2	4020.2	4040.8	4006.6	4056.2	4369.2	5122.0	5970.5	5696.8	5631.8	4607.0
30°	4350.4	4348.7	4396.6	4341.9	4357.3	4593.3	5411.1	6615.4	6415.3	6334.9	5034.7
32.5°	4798.6	4788.4	4843.1	4767.8	4716.5	4932.1	5763.5	7289.5	7275.8	7152.6	5571.9
35°	5364.9	5347.8	5364.9	5291.3	5198.9	5405.9	6225.4	7961.8	8230.4	8100.4	6211.7
37.5°	5927.7	5982.5	6001.3	5874.7	5799.4	6006.4	6781.4	8564.0	9142.2	9007.0	6877.2
40°	6591.5	6574.4	6639.4	6497.4	6449.5	6678.7	7325.4	9012.2	9864.1	9735.8	7469.1
42.5°	7080.8	7111.5	7192.0	7113.3	7075.6	7291.2	7782.2	9273.9	10365.4	10238.8	7891.6
45°	7667.5	7689.8	7720.6	7655.6	7616.2	7828.3	8112.3	9388.5	10746.9	10610.0	8175.6
47.5°	8302.2	8319.3	8319.3	8185.9	8059.3	8146.5	8333.0	9453.5	11097.6	10965.8	8386.0
50°	8757.3	8765.8	8841.1	8747.0	8471.6	8336.4	8433.9	9516.8	11330.2	11207.1	8454.5
52.5°	8353.5	8343.3	8591.3	8786.4	8859.9	8591.3	8608.4	9609.2	11443.1	11337.1	8509.2
55°	7034.6	7017.5	7366.4	7840.3	8488.7	8832.6	8818.9	9664.0	11568.0	11503.0	8707.7
57.5°	5099.7	5070.6	5556.5	6083.4	6933.6	7866.0	8413.4	9633.2	11622.8	11617.6	8938.6
60°	3065.6	3041.7	3500.2	4054.5	4711.4	5648.9	6557.3	8629.0	10890.6	10900.8	8338.1
62.5°	1886.9	1909.2	2323.2	2605.5	2850.1	3132.4	3657.6	5804.5	8067.8	8134.6	5859.3
65°	1269.4	1286.5	1669.7	2025.5	2025.5	1656.0	1421.6	2774.8	4304.2	4191.3	2771.4
67.5°	851.9	870.8	1173.6	1589.3	1649.2	1154.7	576.5	828.0	1199.2	1163.3	686.0
70°	501.2	521.8	781.8	1089.7	1200.9	804.0	384.9	350.7	340.4	330.2	266.9
72.5°	224.1	232.7	398.6	554.3	506.4	338.7	272.0	280.6	265.2	260.0	217.3
75°	68.4	71.9	102.6	119.8	121.5	121.5	164.2	220.7	208.7	210.4	167.7
77.5°	17.1	17.1	27.4	25.7	13.7	12.0	30.8	49.6	51.3	46.2	34.2
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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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Scaled Data Report

REPORT NUMBER: P640468
CATALOG NUMBER: GWS-SA5D-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2
2.5°	2396.7	2352.3	2323.2	2282.1	2253.0	2222.3	2194.9	2172.6	2160.7	2157.2	2159.0
5°	2451.5	2381.4	2312.9	2234.2	2179.5	2128.2	2087.1	2054.6	2039.2	2034.1	2034.1
7.5°	2535.3	2437.8	2316.3	2193.2	2100.8	2020.4	1972.5	1936.6	1922.9	1919.5	1909.2
10°	2644.8	2511.4	2311.2	2119.6	1989.6	1905.8	1871.5	1861.3	1866.4	1868.1	1866.4
12.5°	2776.5	2588.3	2278.7	2011.8	1871.5	1820.2	1823.6	1851.0	1881.8	1897.2	1900.6
15°	2916.8	2658.5	2205.1	1883.5	1770.6	1768.9	1818.5	1881.8	1941.7	1967.4	1974.2
17.5°	3074.2	2714.9	2092.2	1746.7	1683.4	1733.0	1821.9	1919.5	1999.9	2042.6	2051.2
20°	3247.0	2761.1	1948.5	1618.4	1606.4	1695.3	1818.5	1938.3	2037.5	2085.4	2093.9
22.5°	3426.6	2793.6	1782.6	1500.3	1536.2	1652.6	1786.0	1902.3	1996.4	2051.2	2058.0
25°	3631.9	2797.1	1613.2	1401.1	1471.2	1594.4	1707.3	1803.1	1881.8	1929.7	1934.8
27.5°	3811.5	2756.0	1462.7	1320.7	1411.4	1522.6	1597.8	1650.9	1705.6	1733.0	1734.7
30°	4018.5	2684.2	1320.7	1255.7	1349.8	1433.6	1471.2	1483.2	1488.3	1493.5	1486.6
32.5°	4264.9	2596.9	1214.6	1192.4	1279.6	1336.1	1346.4	1322.4	1293.3	1252.3	1242.0
35°	4567.7	2518.2	1127.4	1130.8	1202.7	1236.9	1228.3	1177.0	1120.5	1070.9	1062.4
37.5°	4896.1	2451.5	1060.7	1070.9	1118.8	1142.8	1117.1	1060.7	1035.0	992.2	993.9
40°	5187.0	2396.7	1000.8	1011.0	1033.3	1055.5	1014.5	976.8	1024.7	1021.3	1024.7
42.5°	5394.0	2350.6	949.5	944.3	959.7	975.1	944.3	925.5	1005.9	983.7	995.7
45°	5515.4	2307.8	906.7	875.9	899.8	927.2	906.7	882.7	910.1	807.5	798.9
47.5°	5597.5	2283.8	869.1	809.2	851.9	899.8	857.1	798.9	759.6	670.6	663.8
50°	5606.1	2271.9	824.6	740.8	795.5	846.8	797.2	716.8	660.3	621.0	615.9
52.5°	5650.6	2295.8	763.0	653.5	713.4	795.5	761.3	680.9	603.9	569.7	562.8
55°	5849.0	2396.7	660.3	533.8	621.0	756.1	732.2	607.3	533.8	513.2	508.1
57.5°	*6054.3*	*2417.3*	*520.1*	*422.6*	*540.6*	*699.7*	*668.9*	*559.4*	*487.6*	*463.6*	*458.5*
60°	5536.0	1991.3	390.0	349.0	477.3	646.7	619.3	530.3	446.5	417.4	412.3
62.5°	3637.0	1076.1	309.6	296.0	402.0	547.4	564.5	479.0	398.6	367.8	366.1
65°	1676.5	499.5	237.8	234.4	314.8	436.2	485.9	419.1	337.0	309.6	309.6
67.5°	456.8	248.1	186.5	172.8	213.8	292.5	354.1	313.1	239.5	207.0	205.3
70°	227.5	200.2	167.7	148.8	154.0	181.3	208.7	174.5	121.5	99.2	97.5
72.5°	186.5	164.2	142.0	126.6	116.3	111.2	107.8	87.2	56.5	42.8	41.1
75°	138.6	118.0	100.9	82.1	70.1	65.0	58.2	42.8	24.0	13.7	12.0
77.5°	30.8	29.1	27.4	20.5	18.8	15.4	12.0	8.6	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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

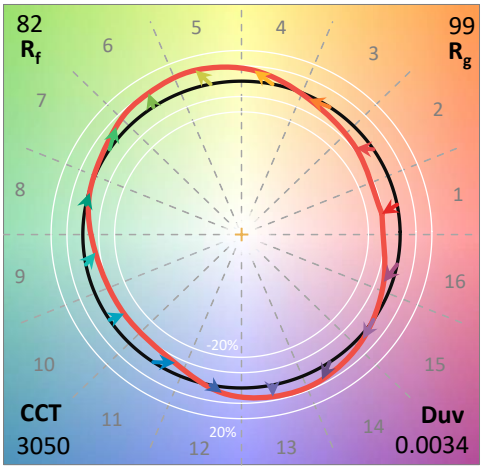
Test Information

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

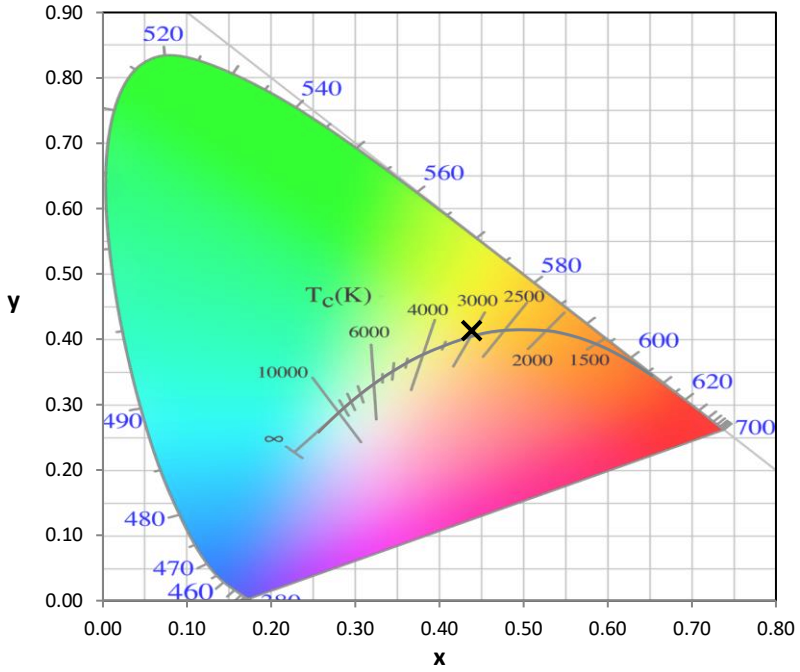
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

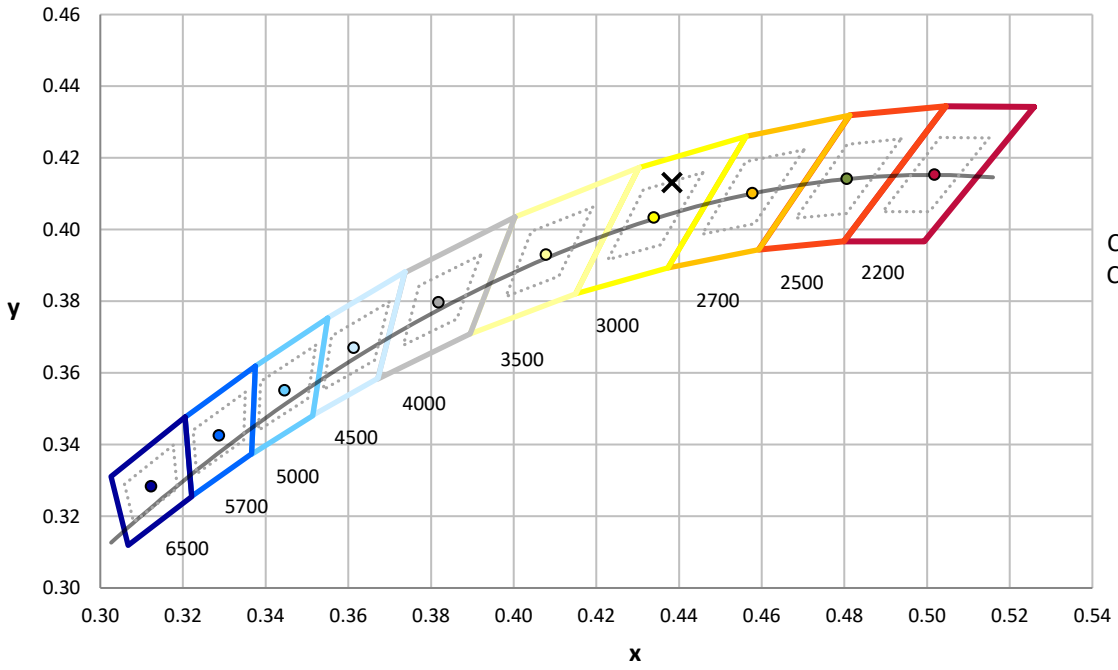
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

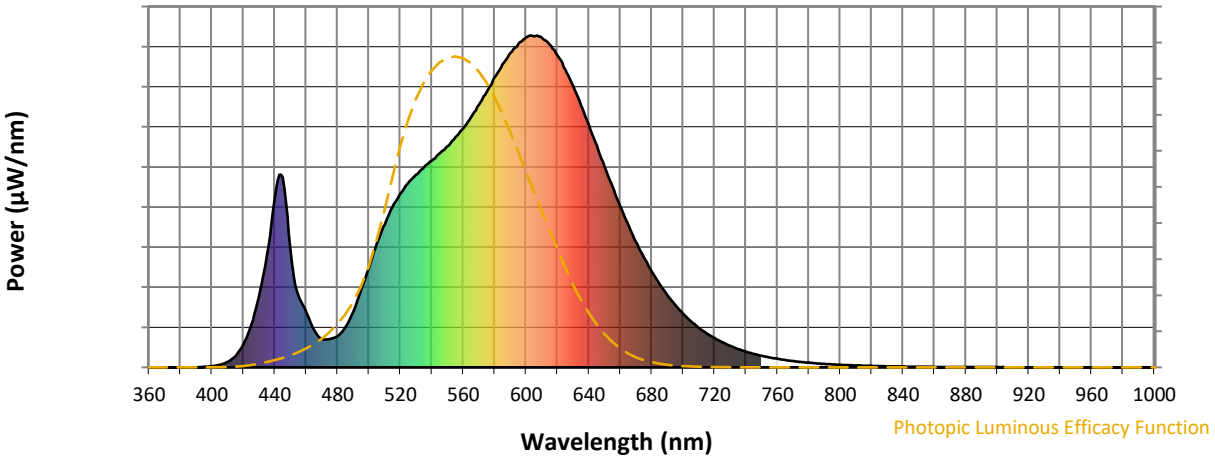


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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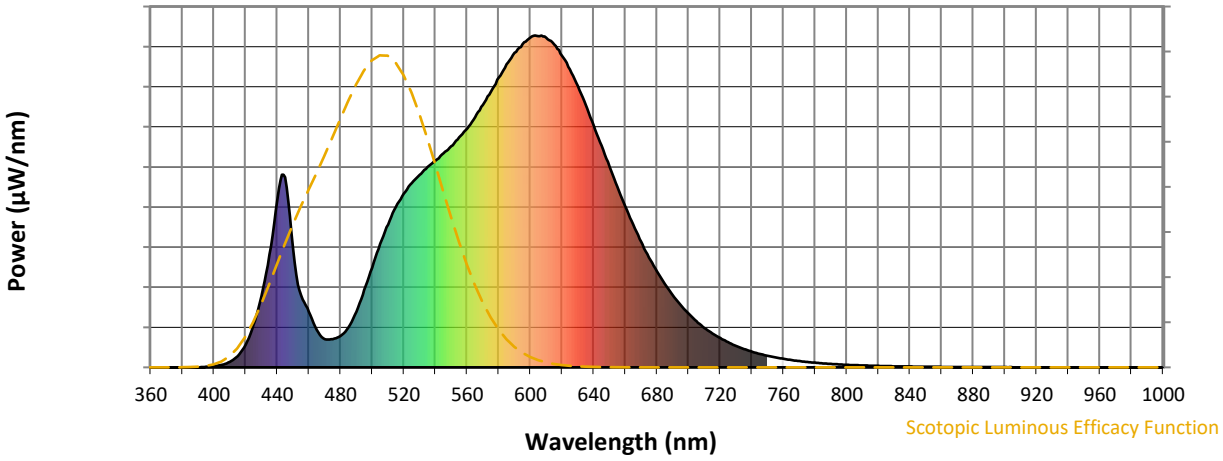
Scotopic Flux vs. Wavelength



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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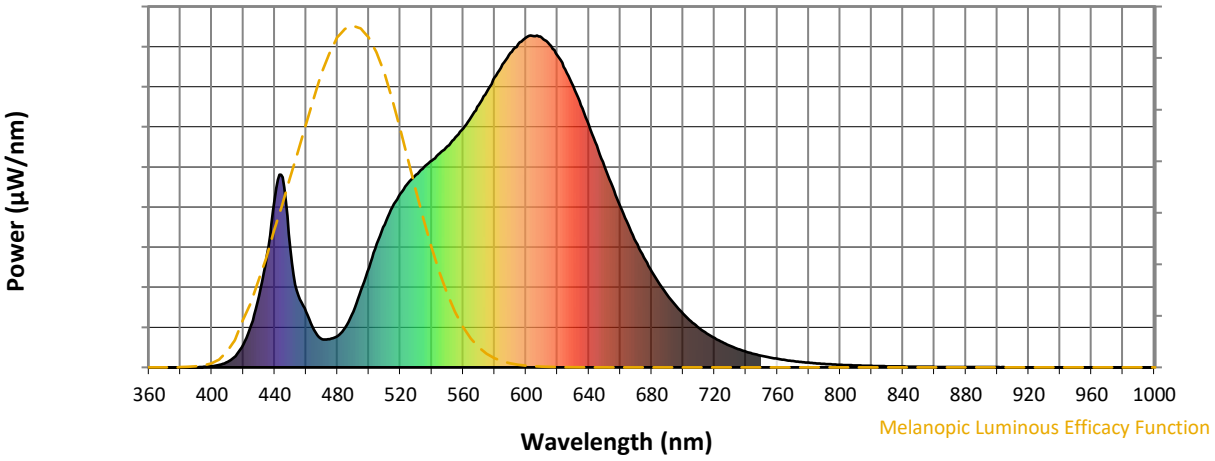
Melanopic Flux vs. Wavelength



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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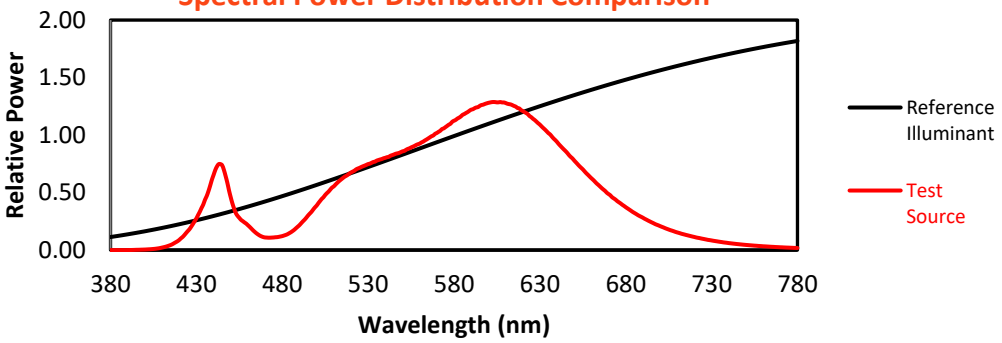
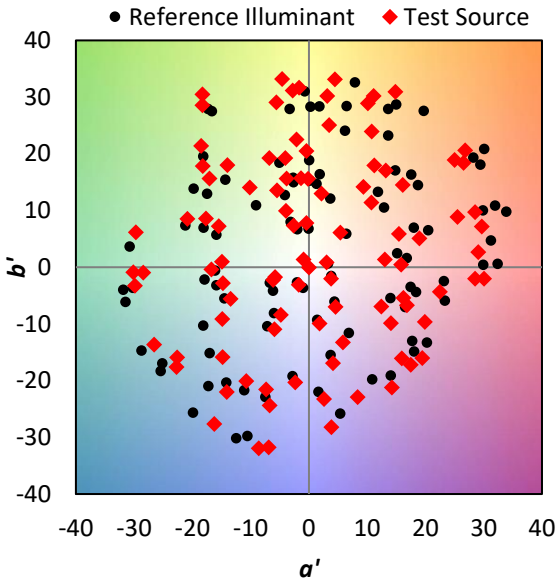
Summary

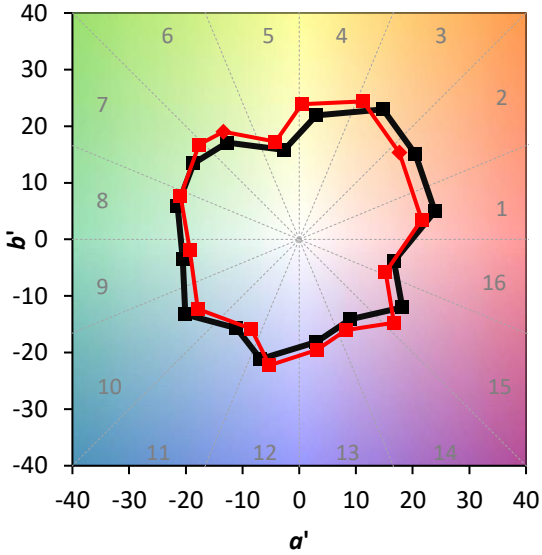
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

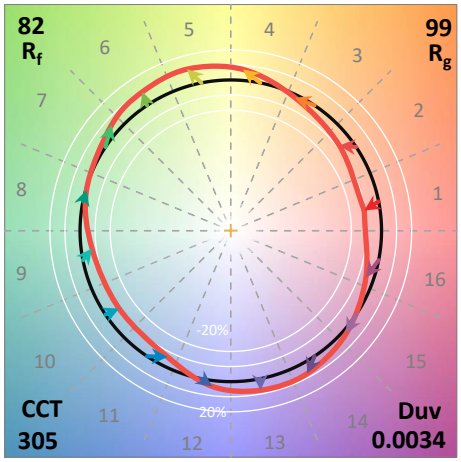
Spectral Power Distribution Comparison

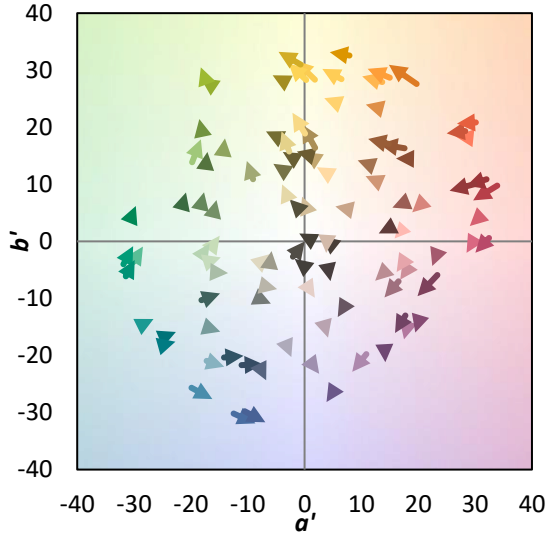


Color Vector Graphics









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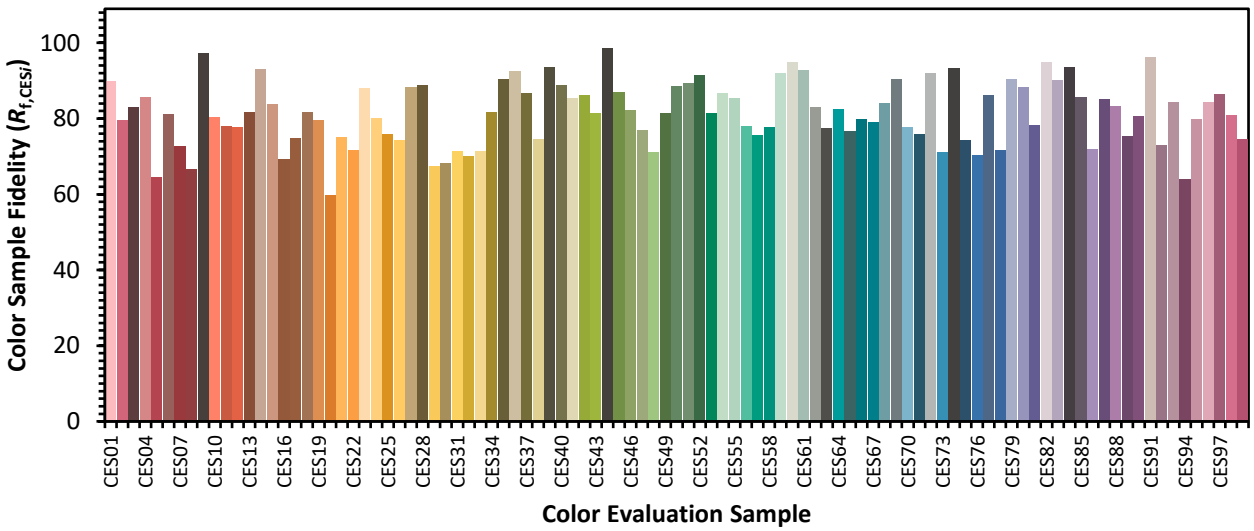
Individual Sample Fidelity Index ($R_{f,i}$)

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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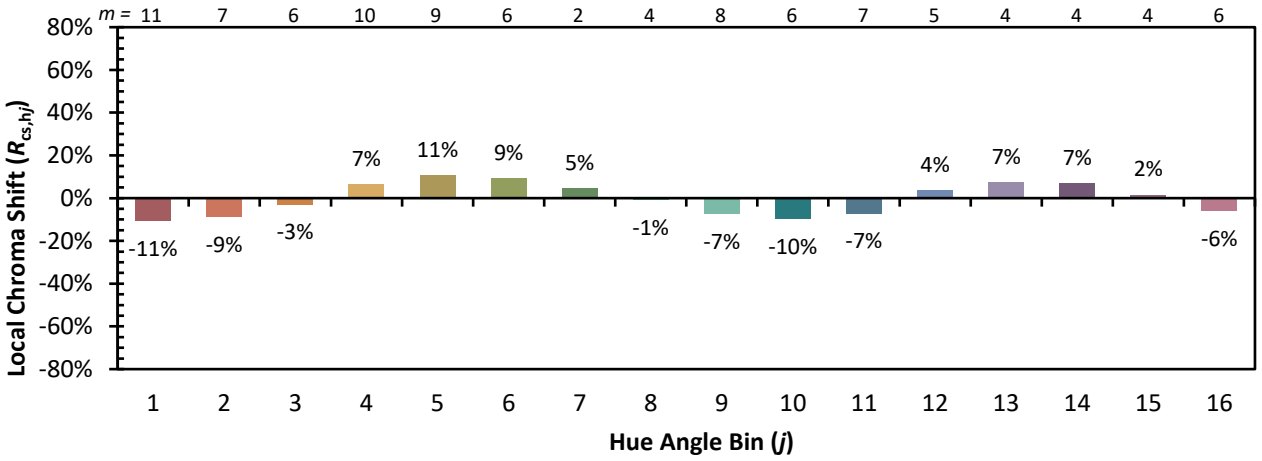
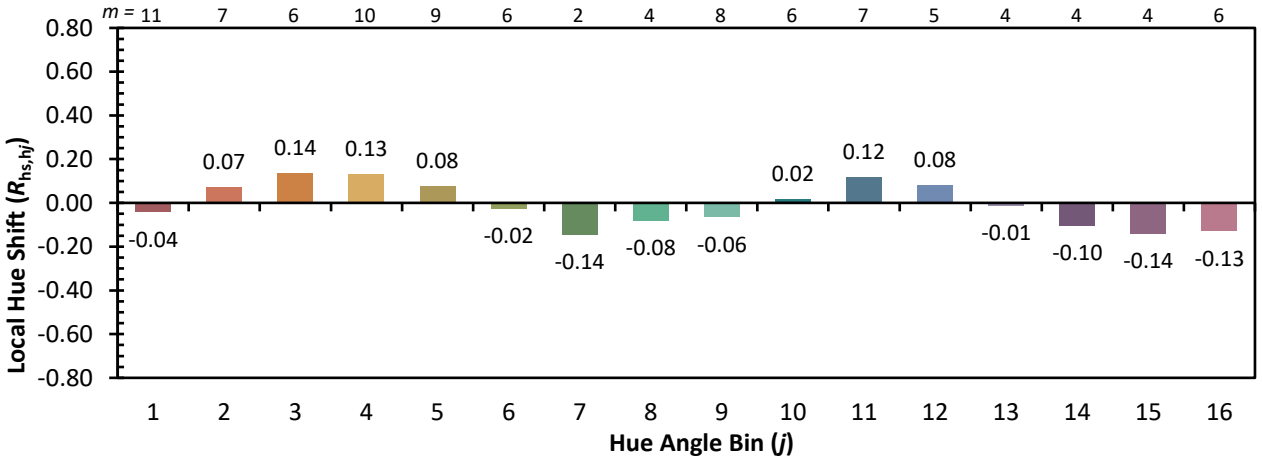
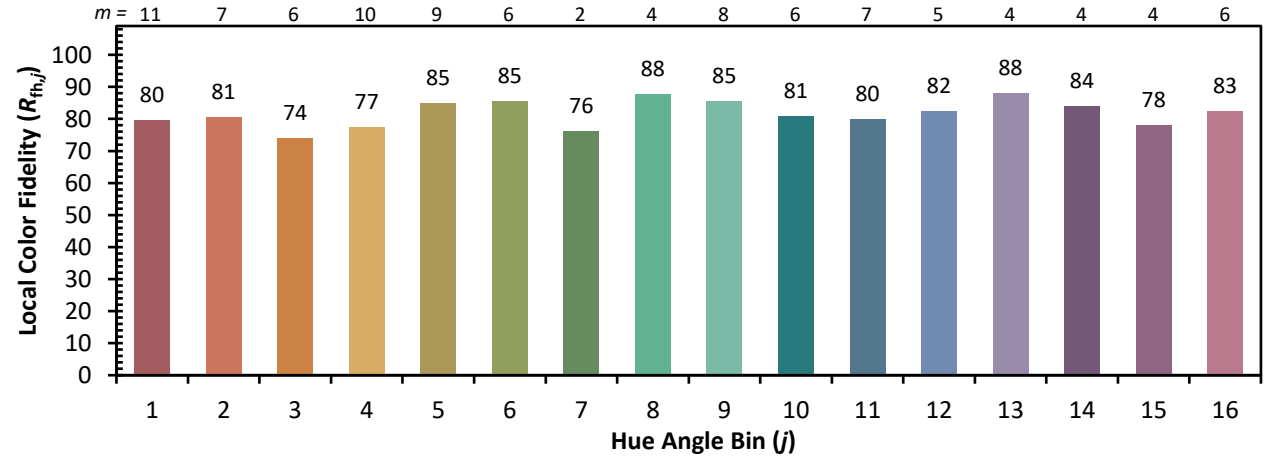
Color Rendition by Hue-Angle Bin







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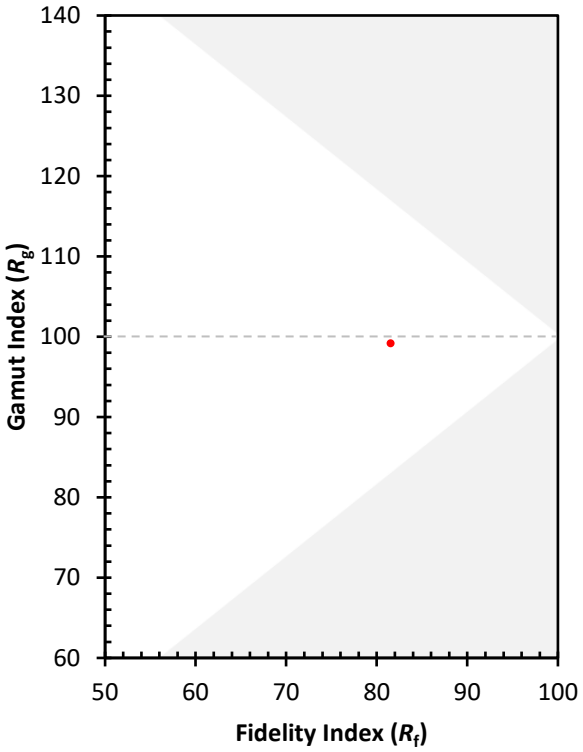
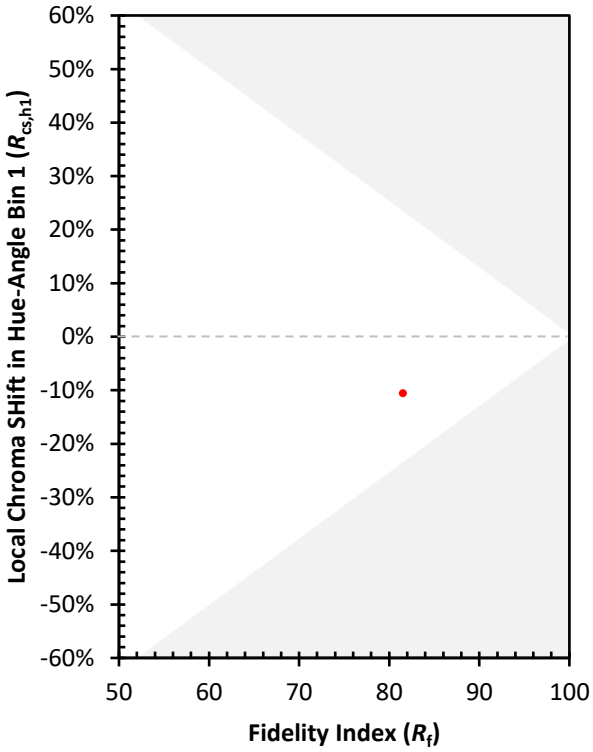
Measure Comparisons





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