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: P635507

Luminaire Tested: GWS-SA3D-830-U-SL4-W-HSS

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:	P635507
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-SL4-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11014.8 lumens
Efficiency:	N/A
Efficacy:	91.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	120.8
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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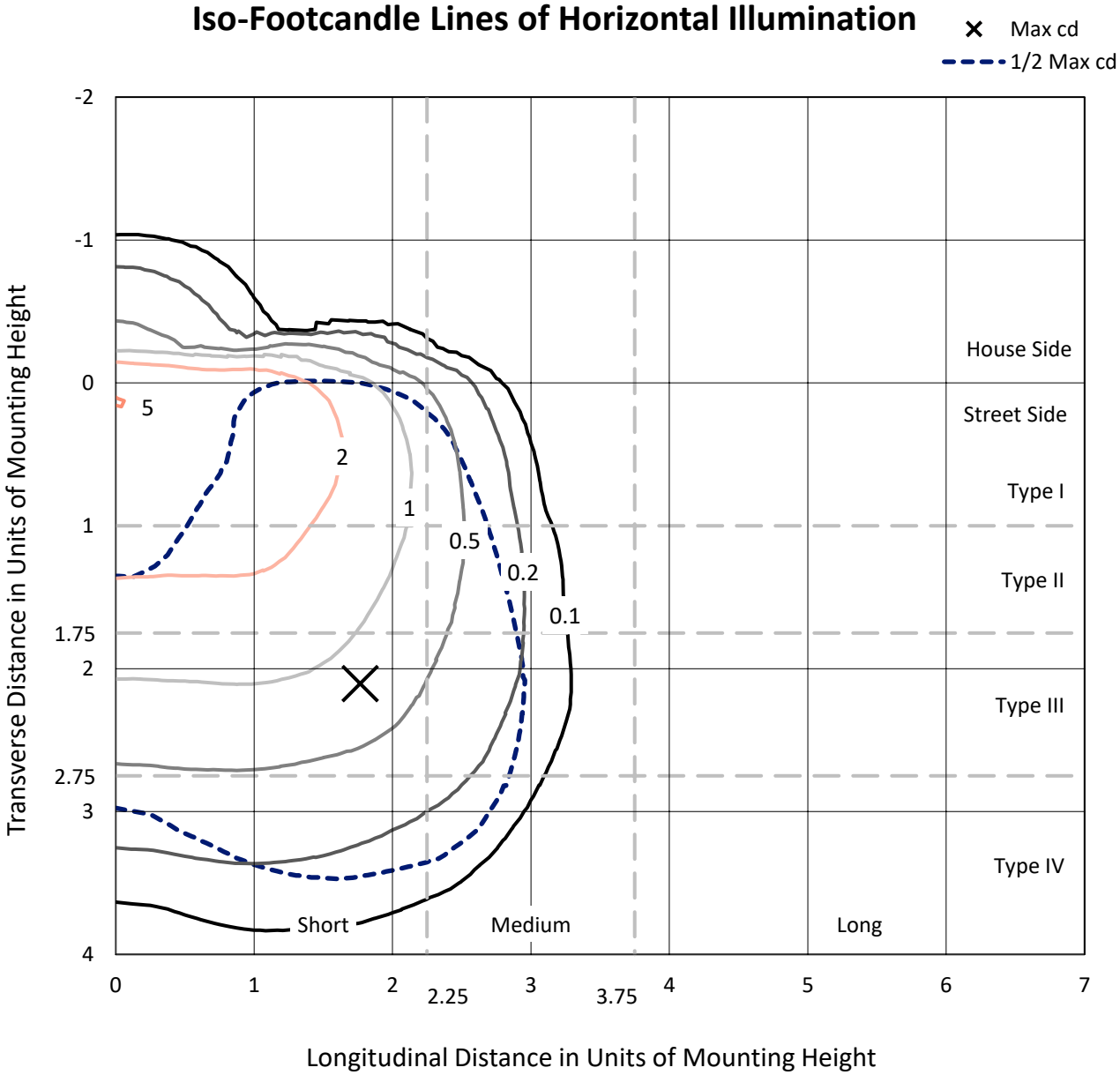
Scaled Data Report

REPORT NUMBER: P635507
CATALOG NUMBER: GWS-SA3D-830-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
Type IV - Short - N/A

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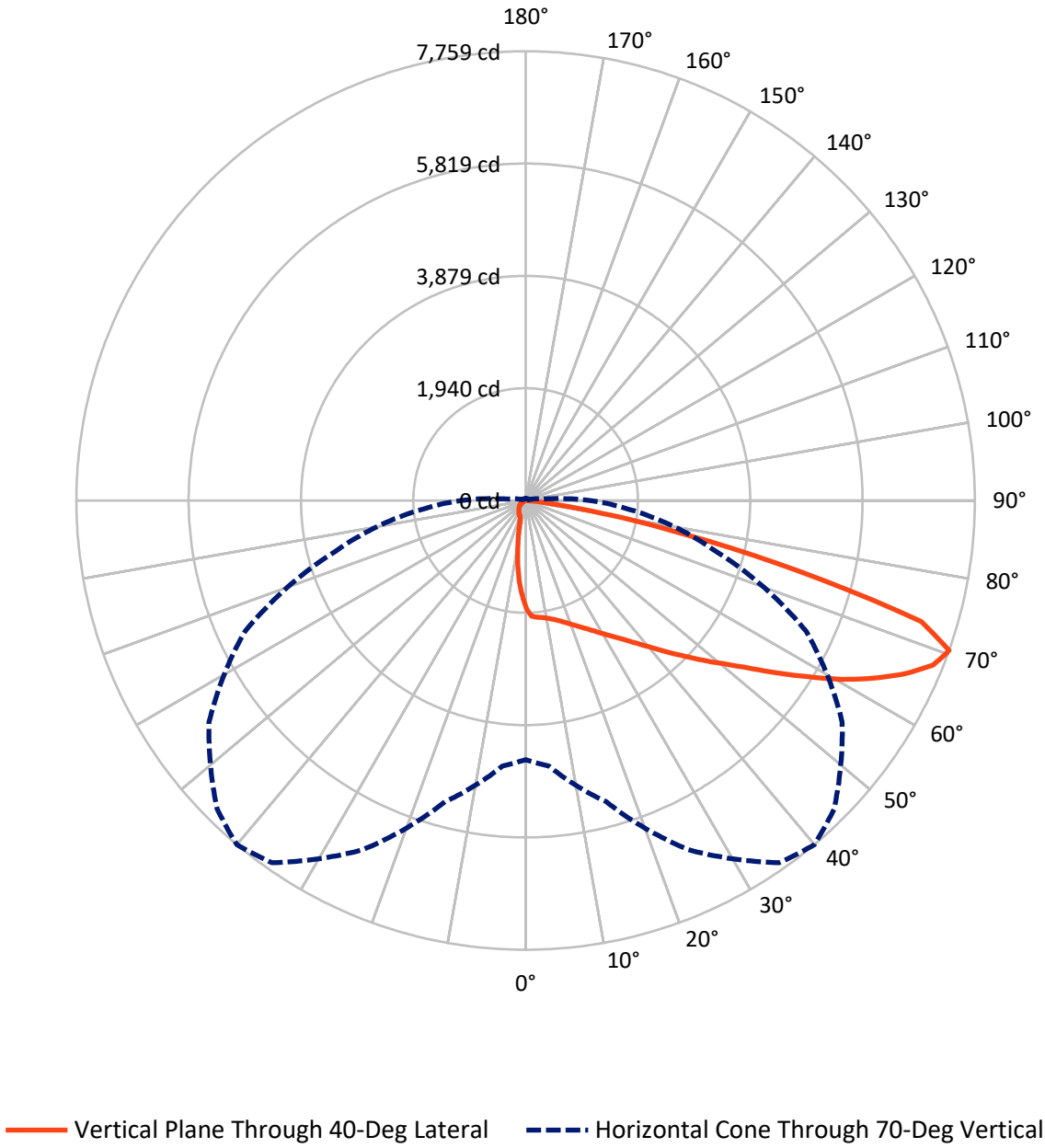
Luminous Intensity Polar Plot



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REPORT NUMBER: P635507
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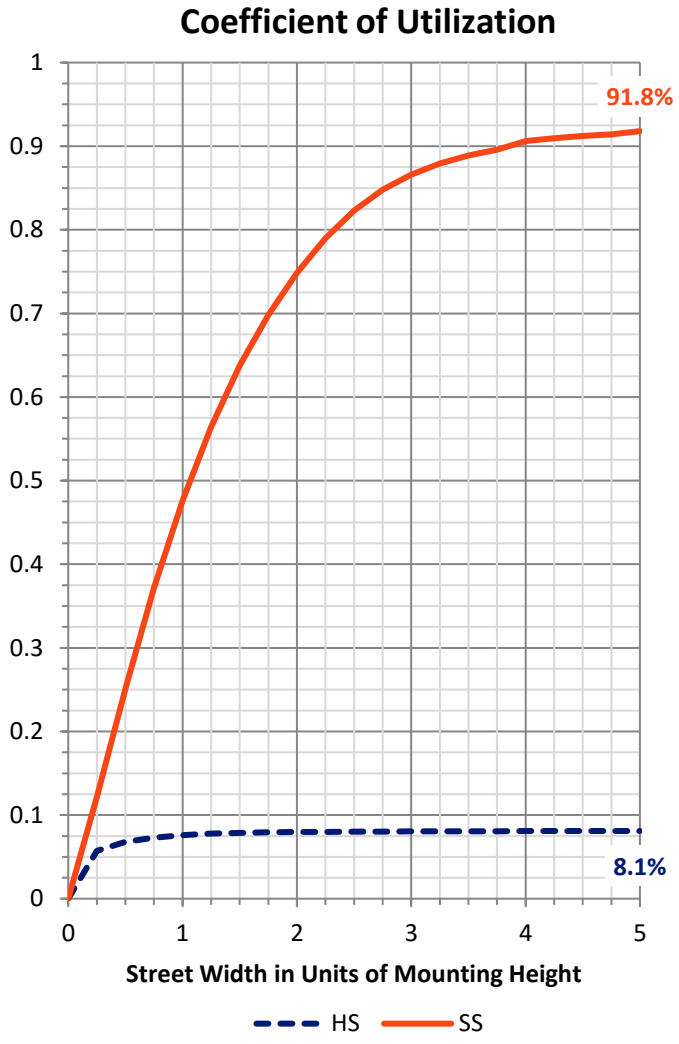
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.7	0.0	900.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10114.1	0.0	10114.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	11014.8	0.0	11014.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	1.4
10°-20°	400.7	3.6
20°-30°	670.6	6.1
30°-40°	1053.2	9.6
40°-50°	1665.9	15.1
50°-60°	2430.2	22.1
60°-70°	3012.6	27.4
70°-80°	1524.2	13.8
80°-90°	99.5	0.9
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°	11014.8	100.0
0°-180°	11014.8	100.0



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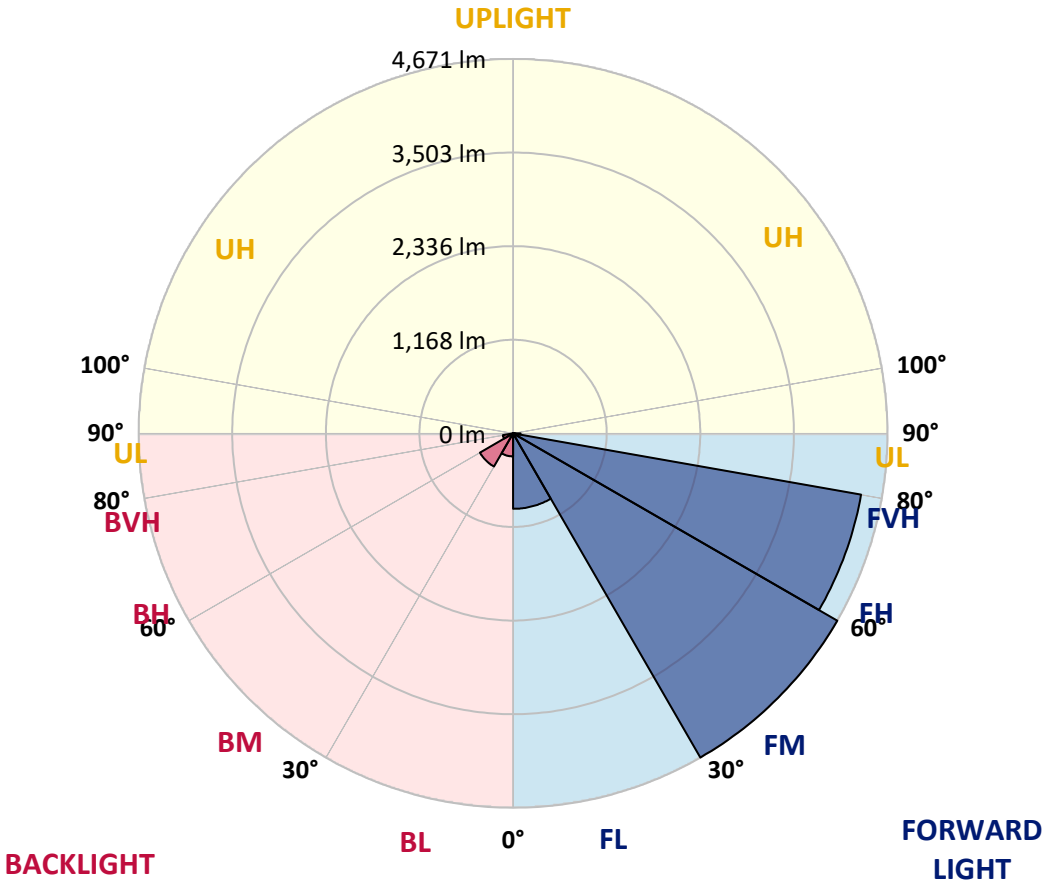
REPORT NUMBER: P635507
CATALOG NUMBER: GWS-SA3D-830-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	941.6	8.5			
FM	(30°-60°)	4671.3	42.4			
FH	(60°-80°)	4408.3	40.0			G2/5000
FVH	(80°-90°)	92.9	0.8			G1/100
BL	(0°-30°)	287.6	2.6	B1/500		
BM	(30°-60°)	478.1	4.3	B1/1000		
BH	(60°-80°)	128.4	1.2	B1/500		G1/500
BVH	(80°-90°)	6.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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Scaled Data Report

REPORT NUMBER: P635507
CATALOG NUMBER: GWS-SA3D-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1869.1	1869.1	1869.1	1869.1	1869.1	*1869.1*	1869.1	1869.1	1869.1	1869.1	1869.1
2.5°	2009.4	2016.4	2015.4	2018.4	2011.4	*2000.4*	1998.4	1983.3	1956.3	1922.2	1884.1
5°	2050.5	2058.5	2052.5	2049.5	2036.4	*2024.4*	2021.4	2005.4	1974.3	1928.2	1862.1
7.5°	2085.6	2087.6	2083.5	2076.5	2057.5	*2041.5*	2030.4	2008.4	1971.3	1925.2	1849.0
10°	2091.6	2090.6	2092.6	2093.6	2081.5	*2067.5*	2058.5	2028.4	1981.3	1932.2	1850.0
12.5°	2084.5	2084.5	2097.6	2112.6	2112.6	*2105.6*	2096.6	2069.5	2014.4	1956.3	1870.1
15°	2093.6	2096.6	2121.6	2149.7	2158.7	*2151.7*	2147.7	2119.6	2062.5	1998.4	1906.2
17.5°	2125.6	2128.6	2168.7	2210.8	2221.8	*2213.8*	2205.8	2177.8	2116.6	2046.5	1947.3
20°	2172.7	2180.8	2231.9	2286.0	2296.0	*2286.0*	2270.0	2230.9	2169.7	2098.6	1986.3
22.5°	2258.9	2263.9	2319.1	2376.2	2381.2	*2365.2*	2341.1	2287.0	2222.9	2153.7	2030.4
25°	2373.2	2380.2	2435.3	2490.4	2477.4	*2453.4*	2420.3	2359.1	2286.0	2218.8	2086.6
27.5°	2509.5	2517.5	2571.6	2619.7	2585.6	*2557.6*	2520.5	2444.3	2370.2	2309.0	2158.7
30°	2656.8	2663.8	2711.9	2755.0	2709.9	*2676.8*	2632.7	2554.6	2479.4	2433.3	2260.9
32.5°	2799.1	2798.1	2844.2	2879.3	2833.2	*2807.1*	2767.0	2687.9	2627.7	2607.7	2413.3
35°	2931.4	2931.4	2969.5	3004.6	2971.5	*2957.5*	2920.4	2857.2	2823.2	2847.2	2616.7
37.5°	3064.7	3057.7	3093.8	3132.8	3129.8	*3130.8*	3109.8	3079.7	3081.7	3166.9	2896.3
40°	3174.9	3171.9	3214.0	3265.1	3305.2	*3337.3*	3324.3	3335.3	3398.4	3557.8	3254.1
42.5°	3263.1	3270.1	3324.3	3405.4	3506.7	*3571.8*	3580.8	3625.9	3788.3	4034.8	3658.0
45°	3364.3	3365.3	3440.5	3564.8	3726.1	*3829.4*	3865.4	3981.7	4212.2	4529.9	4101.0
47.5°	3488.6	3476.6	3560.8	3735.2	3968.7	*4121.0*	4185.1	4330.5	4687.2	5012.9	4461.7
50°	3625.9	3603.9	3699.1	3936.6	4240.3	*4430.7*	4561.0	4773.4	5158.3	5409.8	4730.3
52.5°	3785.3	3764.2	3872.5	4168.1	4566.0	*4797.5*	4964.8	5179.3	5562.1	5712.5	4890.7
55°	3987.7	3966.7	4080.9	4445.7	4950.8	*5251.5*	5426.8	5607.2	5938.0	5936.0	5006.9
57.5°	4212.2	4183.1	4341.5	4796.5	5430.9	*5743.5*	5921.9	6010.1	6223.6	6109.3	5085.1
60°	4469.8	4443.7	4663.2	5214.4	5985.1	*6274.7*	6386.9	6350.9	6458.1	6211.6	5058.0
62.5°	4702.3	4690.2	4962.8	5657.3	6513.2	*6757.7*	6788.8	6631.5	6630.5	6213.6	4875.6
65°	4943.8	4966.8	5371.7	6167.5	7044.4	*7208.7*	7155.6	6910.1	6699.6	5968.0	4336.5
67.5°	5034.0	5101.1	5641.3	6628.5	7463.3	*7591.6*	7498.4	7049.4	6412.0	5142.2	3302.2
70°	*4476.8*	*4603.0*	*5386.8*	*6654.5*	*7636.7*	*7758.9*	*7535.4*	*6674.6*	*5345.7*	*3406.4*	*1808.9*
72.5°	3404.4	3551.8	4488.8	5448.9	6868.0	*7146.6*	6764.8	5437.9	3445.5	1492.3	607.3
75°	1905.2	2064.5	3343.3	4103.0	4611.1	*4865.6*	4725.3	3488.6	1526.3	389.9	181.4
77.5°	644.4	697.5	1555.4	2538.5	3043.6	*2815.1*	2383.2	1732.8	561.2	148.3	96.2
80°	381.8	401.9	579.3	1263.8	1601.5	*1327.9*	1048.3	640.4	285.6	79.2	67.1
82.5°	114.2	135.3	319.7	469.0	627.4	*390.9*	330.7	365.8	148.3	43.1	56.1
85°	0.0	0.0	68.1	145.3	164.4	*64.1*	64.1	207.5	27.1	18.0	41.1
87.5°	0.0	0.0	0.0	0.0	0.0	*0.0*	1.0	5.0	3.0	4.0	9.0
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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REPORT NUMBER: P635507
CATALOG NUMBER: GWS-SA3D-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1869.1	1869.1	1869.1	1869.1	1869.1	1869.1	1869.1	1869.1	1869.1	1869.1	1869.1
2.5°	1857.1	1822.0	1780.9	1741.8	1704.7	1656.6	1633.6	1605.5	1581.5	1568.4	1575.4
5°	1820.0	1764.9	1680.7	1595.5	1509.3	1428.1	1355.0	1305.9	1261.8	1238.7	1243.7
7.5°	1787.9	1713.7	1582.5	1443.1	1304.8	1165.5	1052.3	964.1	896.0	867.9	862.9
10°	1773.9	1680.7	1495.3	1294.8	1082.4	895.0	734.6	637.4	568.2	534.2	540.2
12.5°	1780.9	1663.6	1421.1	1149.5	873.9	655.4	502.1	410.9	361.8	341.7	336.7
15°	1800.9	1659.6	1355.0	1001.2	674.5	458.0	346.8	309.7	299.7	297.6	297.6
17.5°	1824.0	1660.6	1286.8	850.9	512.1	339.7	296.6	289.6	286.6	284.6	285.6
20°	1847.0	1660.6	1208.6	698.5	384.8	293.6	282.6	277.6	274.6	273.6	273.6
22.5°	1875.1	1660.6	1121.4	557.2	308.7	278.6	269.6	266.6	263.6	262.6	261.6
25°	1909.2	1661.6	1025.2	436.0	280.6	265.6	258.6	255.6	252.6	250.5	250.5
27.5°	1958.3	1669.6	919.0	339.7	264.6	253.6	247.5	244.5	241.5	238.5	238.5
30°	2029.4	1689.7	799.7	280.6	249.5	240.5	234.5	232.5	229.5	226.5	225.5
32.5°	2135.7	1724.8	676.5	251.5	235.5	226.5	219.5	217.5	214.5	211.5	210.5
35°	2284.0	1788.9	556.2	233.5	217.5	208.5	204.4	203.4	199.4	196.4	196.4
37.5°	2501.5	1893.1	441.0	215.5	202.4	195.4	190.4	188.4	184.4	181.4	180.4
40°	2767.0	2028.4	342.7	201.4	188.4	181.4	176.4	173.4	168.4	164.4	162.4
42.5°	3105.8	2193.8	270.6	186.4	175.4	168.4	164.4	158.3	151.3	145.3	144.3
45°	3458.5	2364.2	223.5	172.4	163.4	157.3	152.3	144.3	134.3	127.3	125.3
47.5°	3729.1	2470.4	195.4	157.3	150.3	145.3	139.3	129.3	117.3	109.2	107.2
50°	3922.6	2486.4	174.4	143.3	139.3	134.3	125.3	113.2	100.2	92.2	90.2
52.5°	4017.8	2414.3	157.3	130.3	127.3	122.3	111.2	98.2	84.2	76.2	74.2
55°	4060.9	2278.0	141.3	119.3	115.3	109.2	97.2	83.2	69.2	62.1	60.1
57.5°	4043.8	2076.5	127.3	108.2	103.2	96.2	83.2	68.1	57.1	50.1	49.1
60°	3917.6	1793.9	113.2	97.2	91.2	83.2	70.2	56.1	46.1	41.1	40.1
62.5°	3645.0	1443.1	99.2	84.2	80.2	72.2	60.1	46.1	38.1	35.1	34.1
65°	3086.7	1020.2	85.2	71.2	69.2	61.1	50.1	38.1	33.1	31.1	30.1
67.5°	2218.8	620.4	72.2	61.1	59.1	52.1	42.1	33.1	30.1	29.1	29.1
70°	*1115.4*	*293.6*	*57.1*	*50.1*	*50.1*	*43.1*	*36.1*	*30.1*	*29.1*	*28.1*	*28.1*
72.5°	378.8	125.3	43.1	39.1	41.1	37.1	31.1	28.1	28.1	28.1	28.1
75°	129.3	66.1	30.1	28.1	30.1	30.1	27.1	27.1	28.1	28.1	28.1
77.5°	84.2	44.1	21.0	19.0	23.1	23.1	23.1	25.1	27.1	27.1	27.1
80°	69.2	24.1	14.0	13.0	17.0	17.0	19.0	23.1	25.1	25.1	25.1
82.5°	59.1	15.0	8.0	9.0	12.0	13.0	16.0	19.0	22.0	23.1	23.1
85°	40.1	8.0	6.0	7.0	8.0	10.0	13.0	16.0	18.0	20.0	20.0
87.5°	11.0	3.0	4.0	5.0	5.0	7.0	10.0	12.0	14.0	15.0	15.0
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

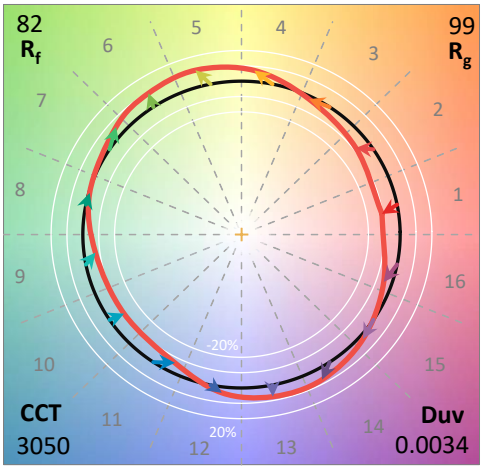
Test Information

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

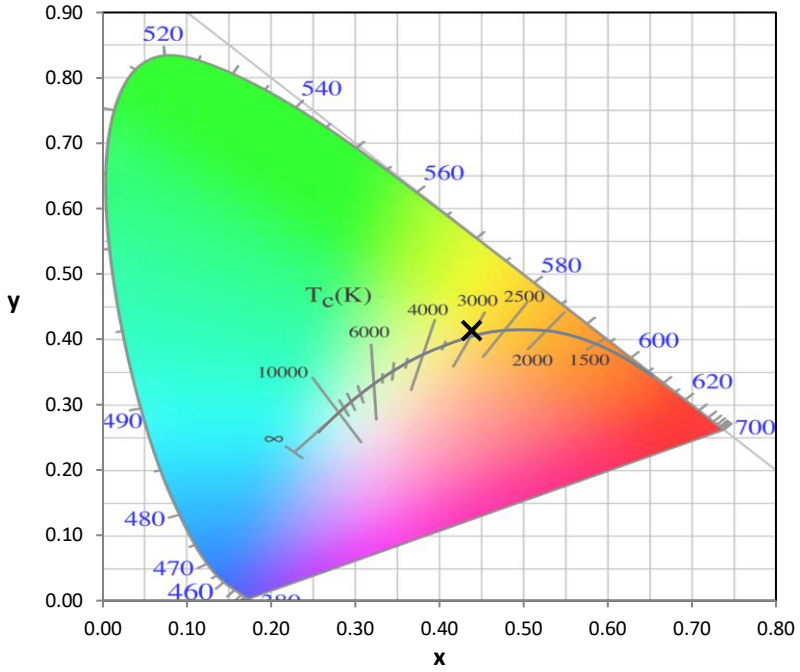
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

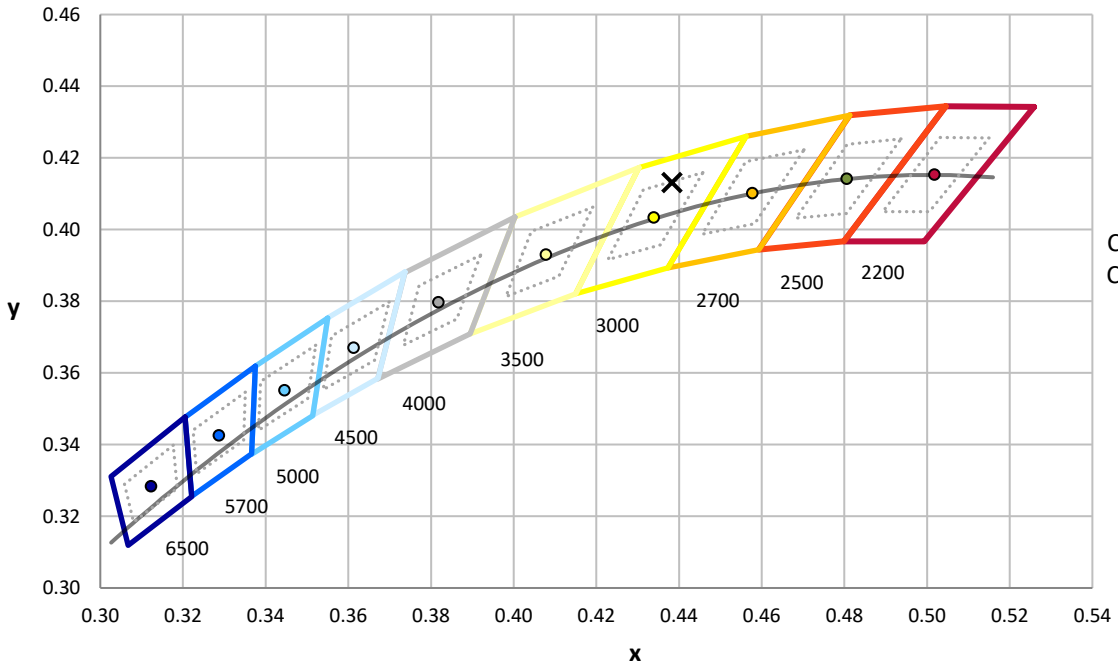
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

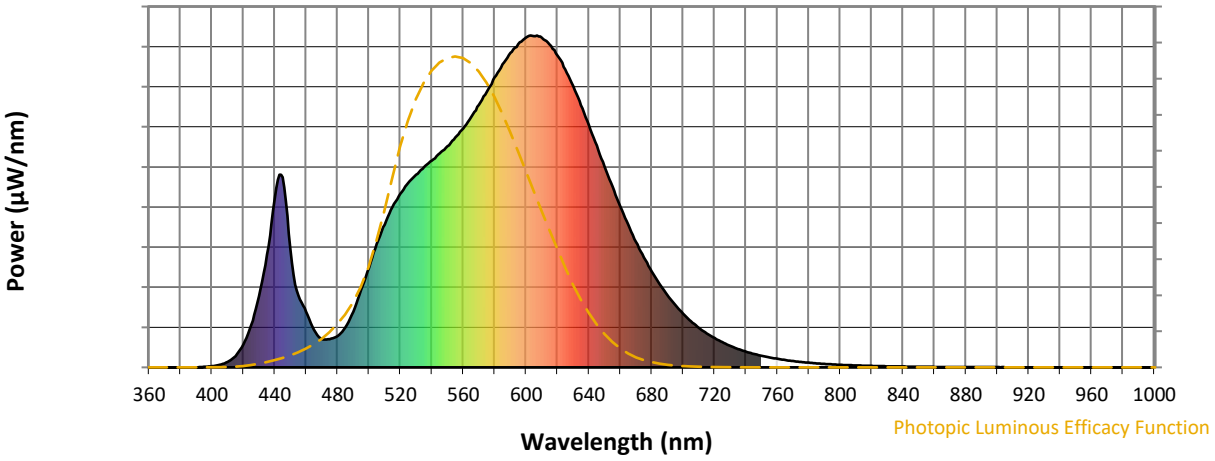


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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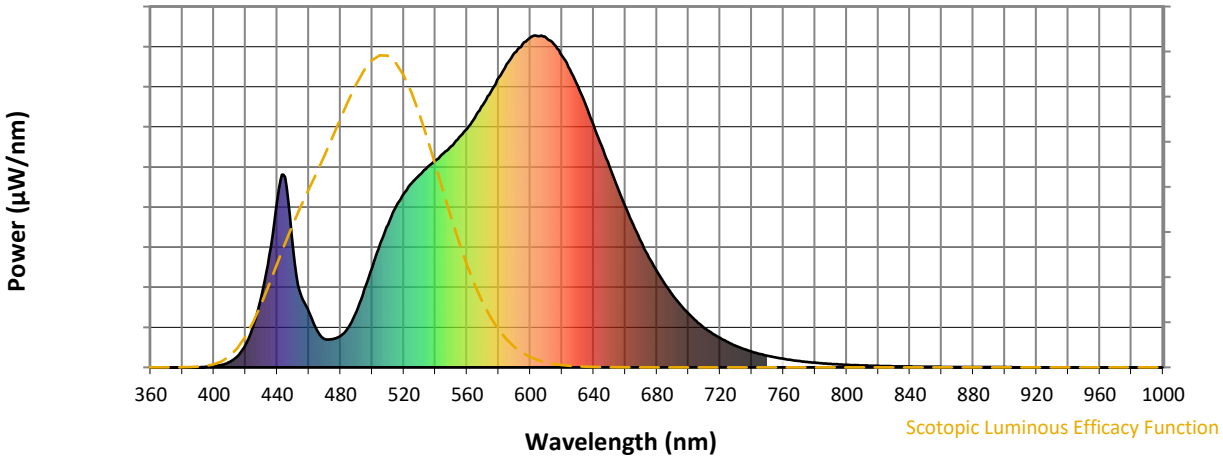
Scotopic Flux vs. Wavelength



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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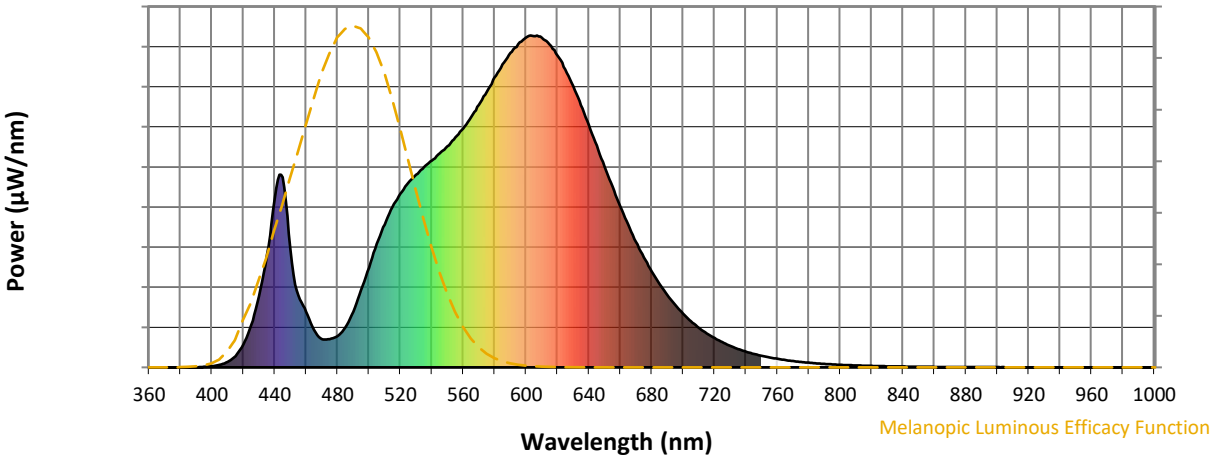
Melanopic Flux vs. Wavelength



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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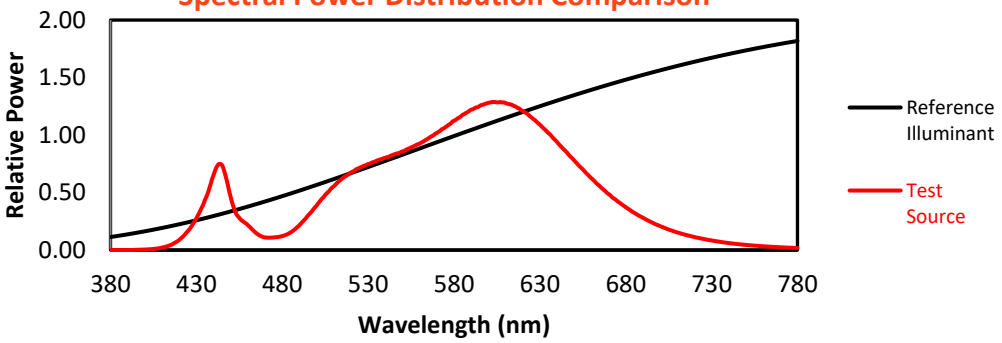
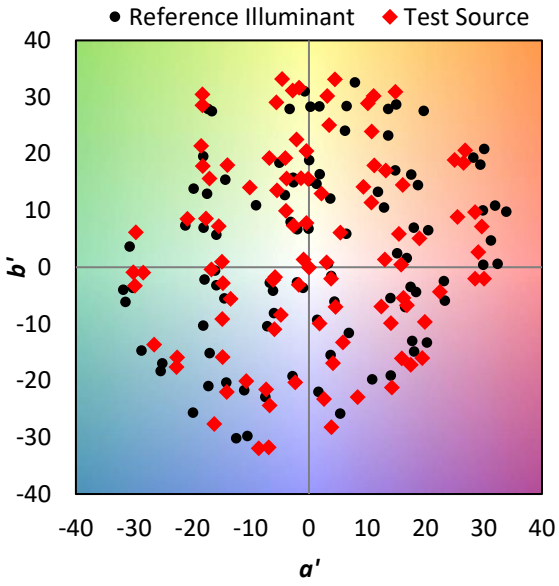
Summary

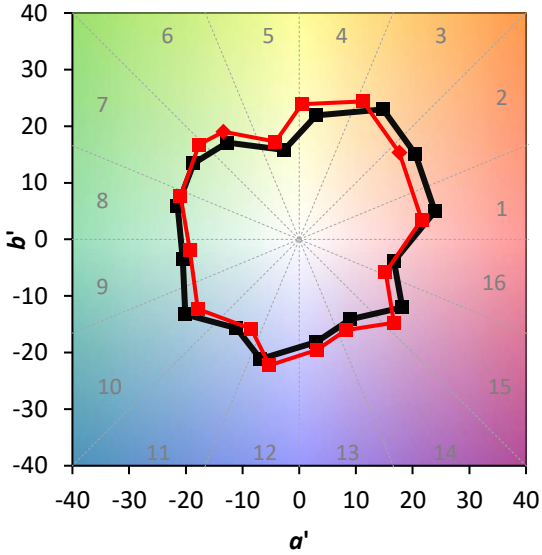
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

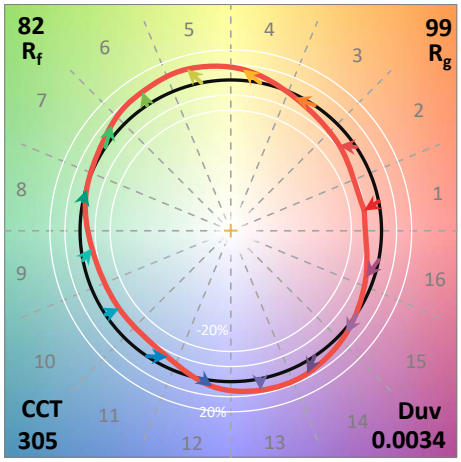
Spectral Power Distribution Comparison

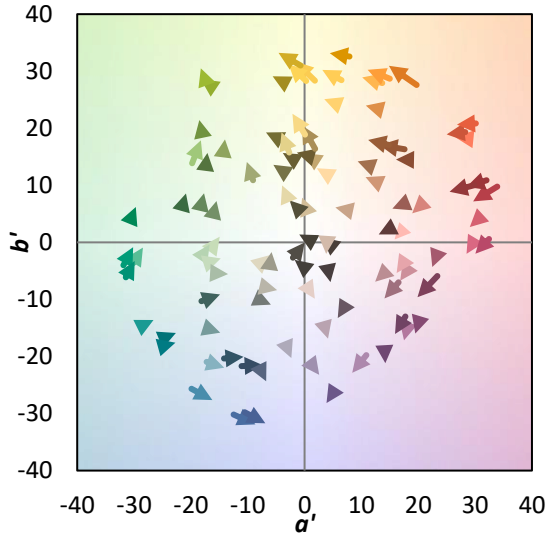


Color Vector Graphics









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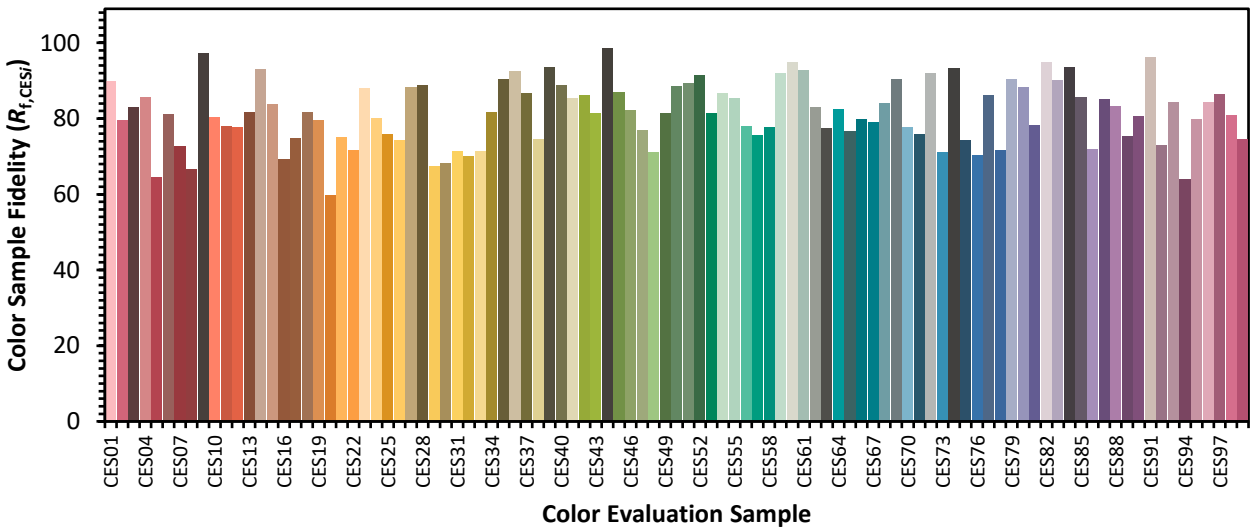
Individual Sample Fidelity Index ($R_{f,i}$)

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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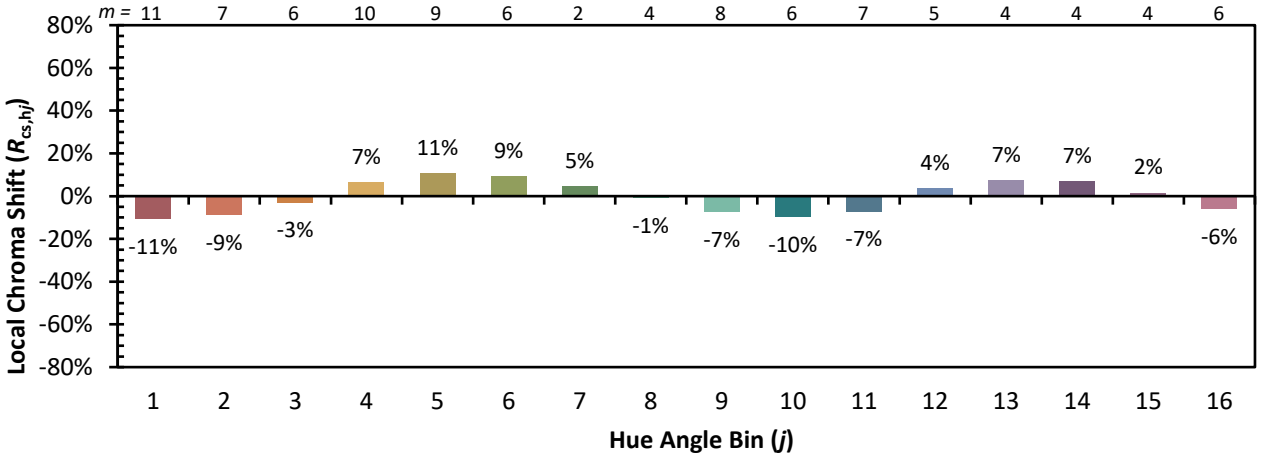
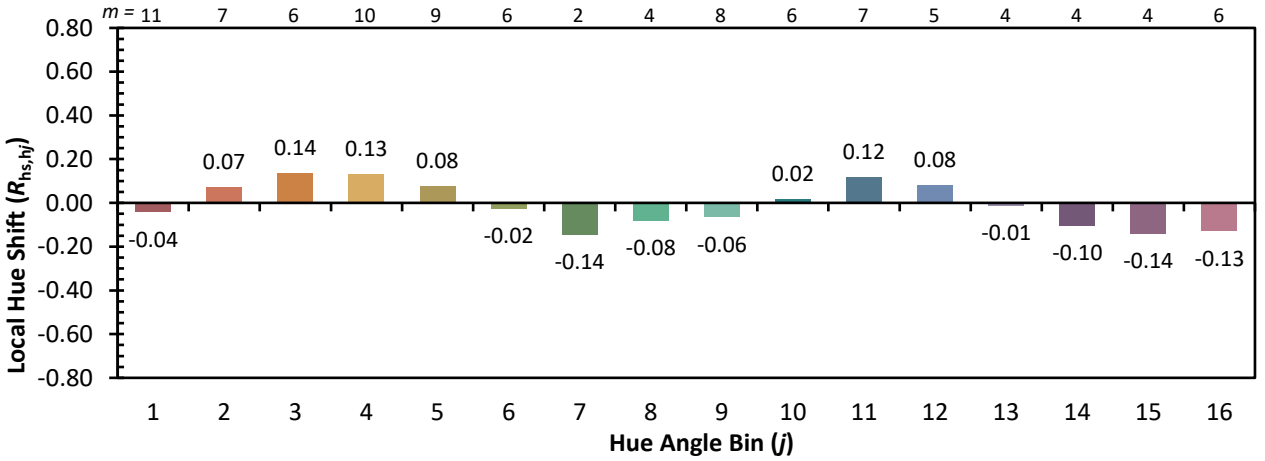
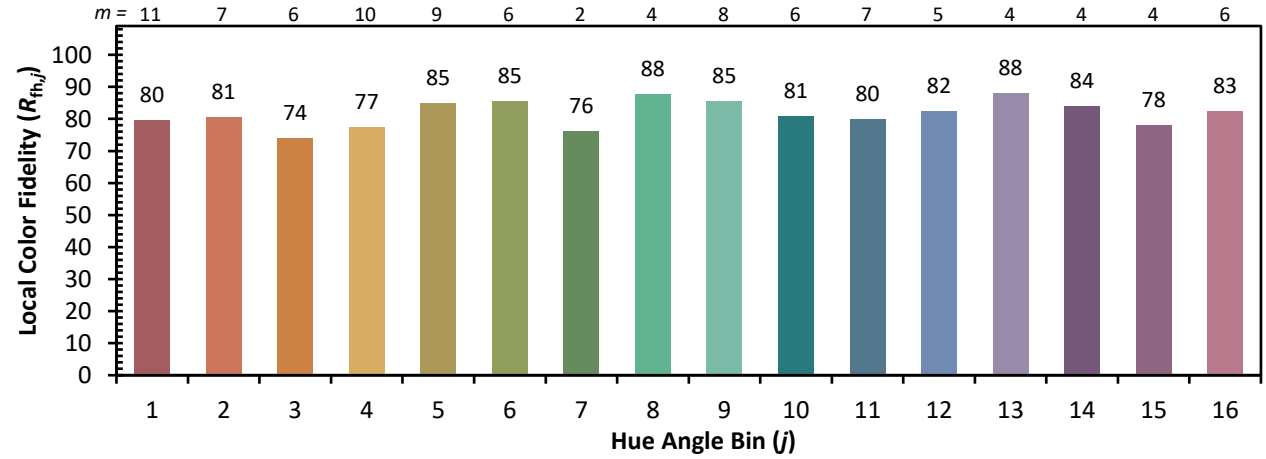
Color Rendition by Hue-Angle Bin







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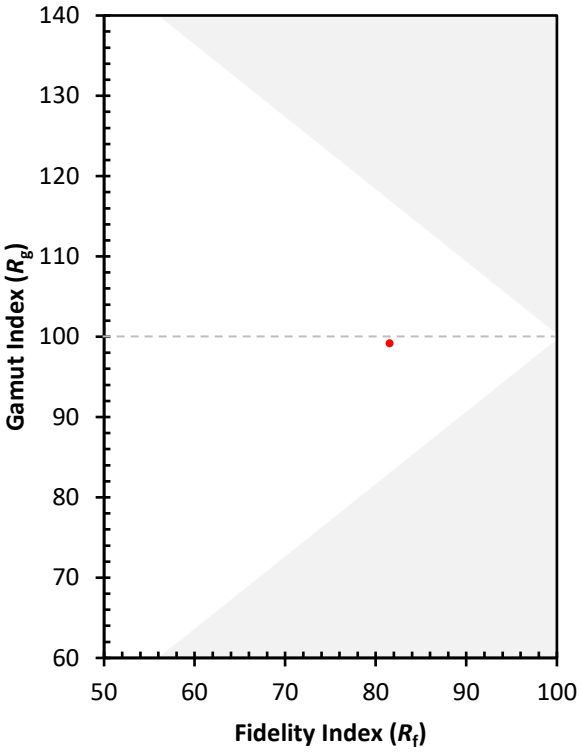
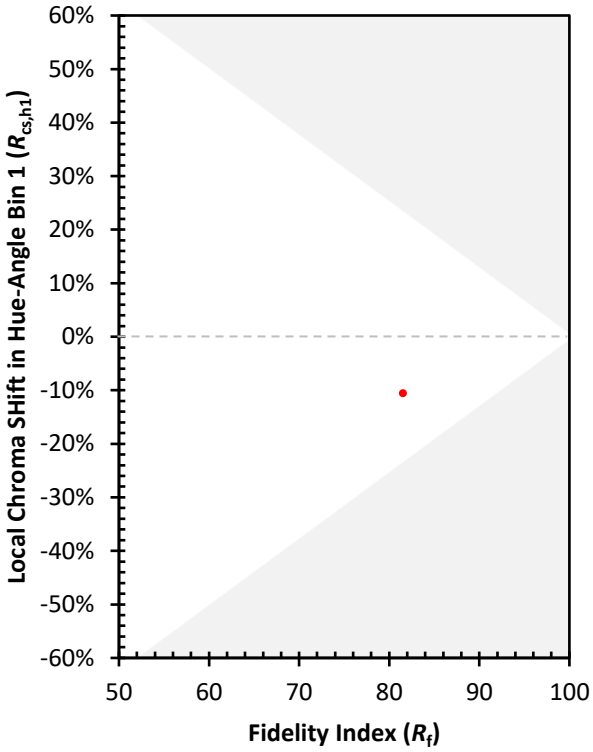
Measure Comparisons





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