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: P643443

Luminaire Tested: GWS-SA6E-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:	P643443
	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-SA6E-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	31296.8 lumens
Efficiency:	N/A
Efficacy:	96.7 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	323.8
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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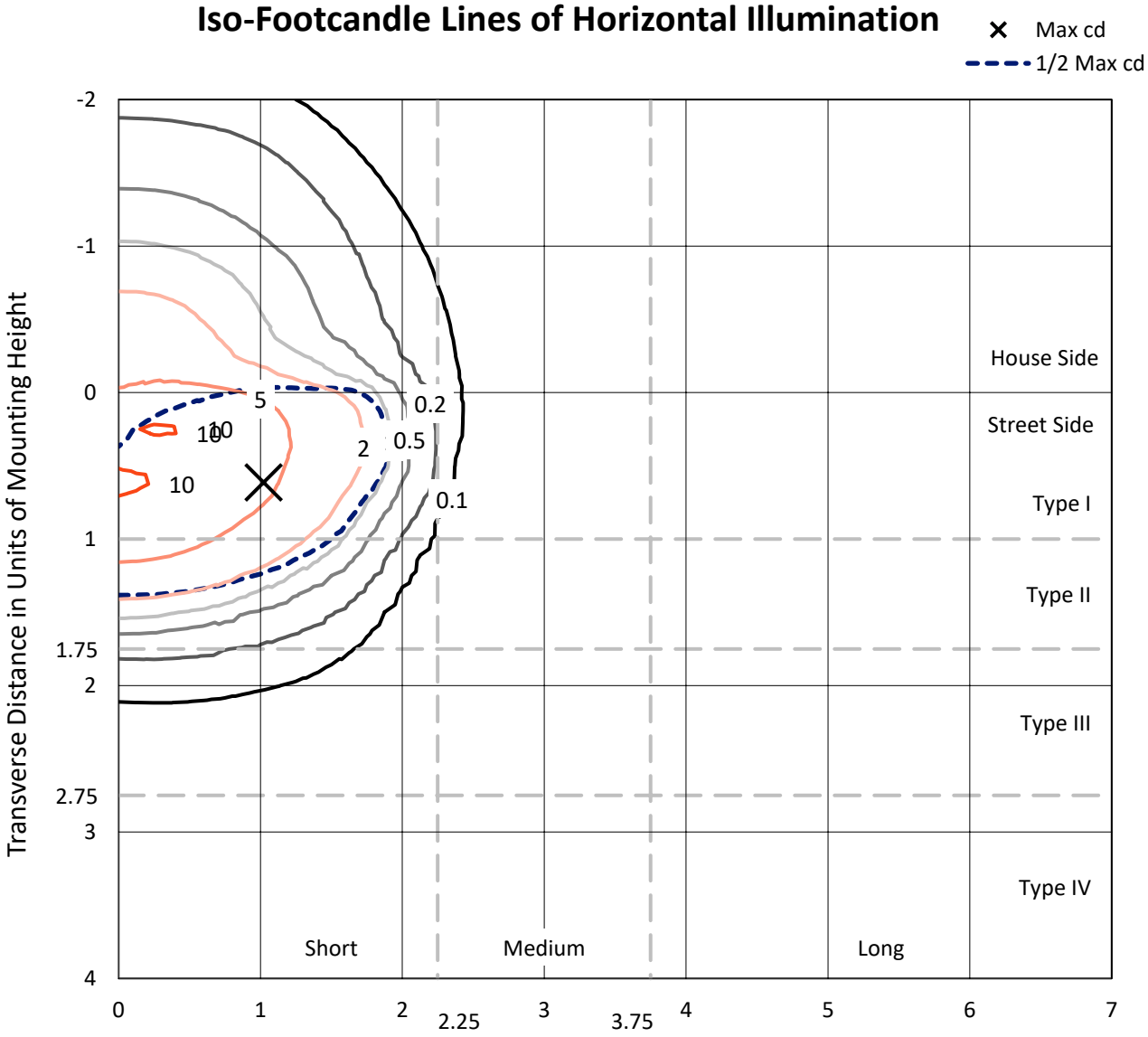
REPORT NUMBER: P643443
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - N/A

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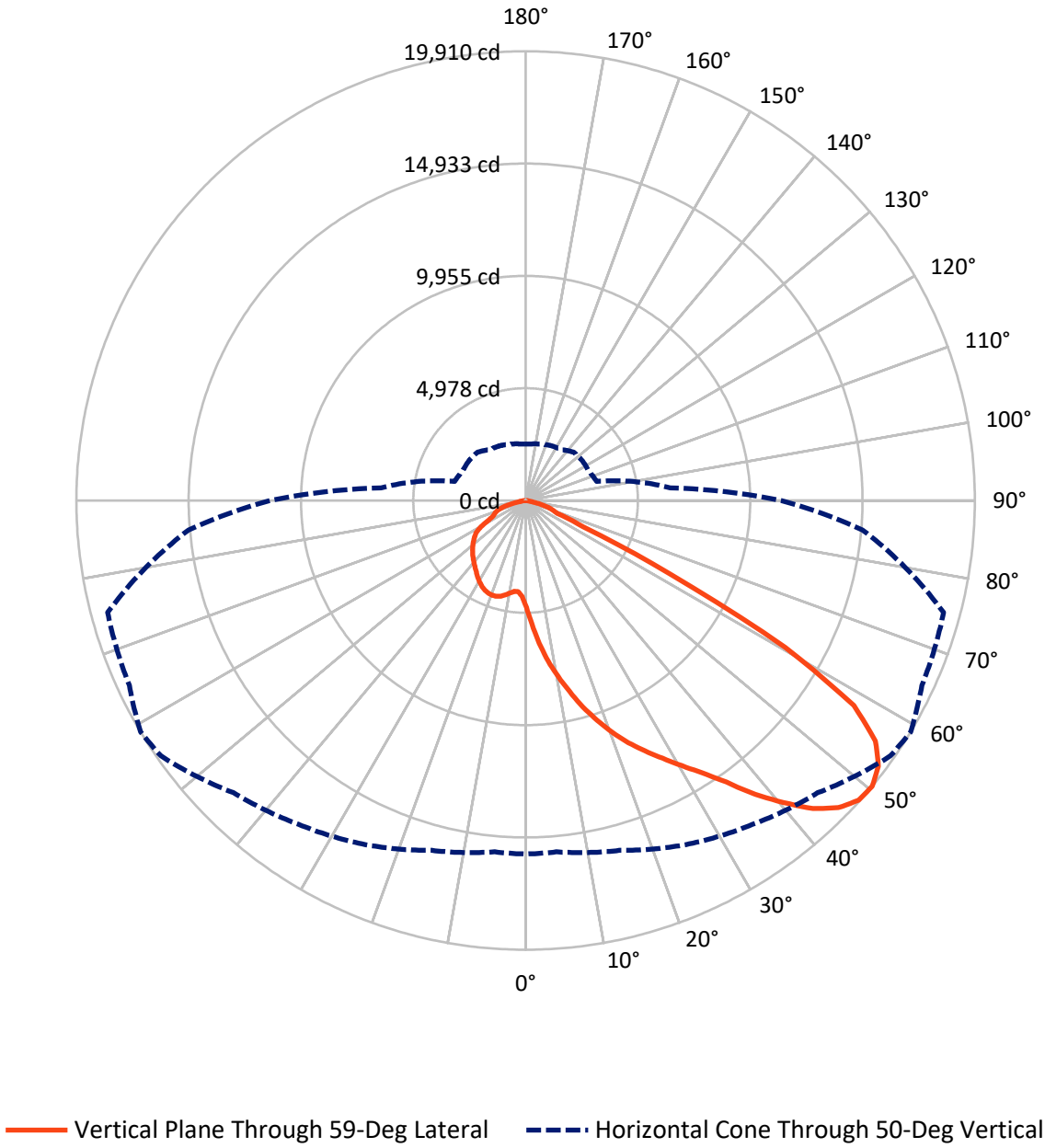
Luminous Intensity Polar Plot



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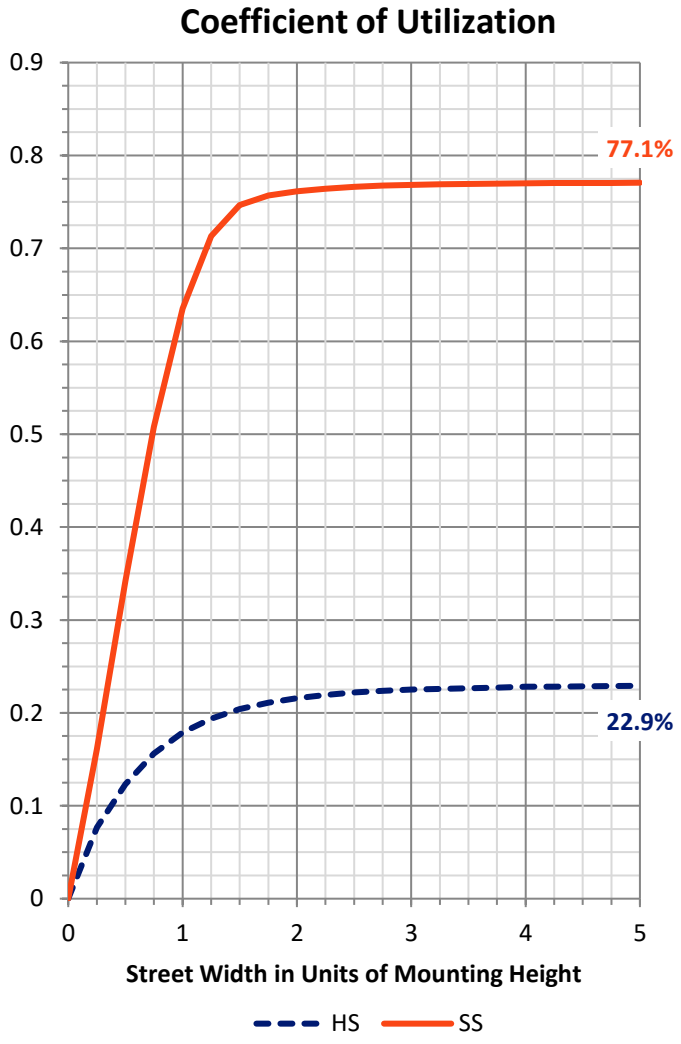
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7198.9	0.0	7198.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	24097.9	0.0	24097.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	31296.8	0.0	31296.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.9	1.7
10°-20°	1931.0	6.2
20°-30°	3656.6	11.7
30°-40°	6063.7	19.4
40°-50°	8283.4	26.5
50°-60°	7519.2	24.0
60°-70°	2504.0	8.0
70°-80°	730.3	2.3
80°-90°	76.7	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°	31296.8	100.0
0°-180°	31296.8	100.0



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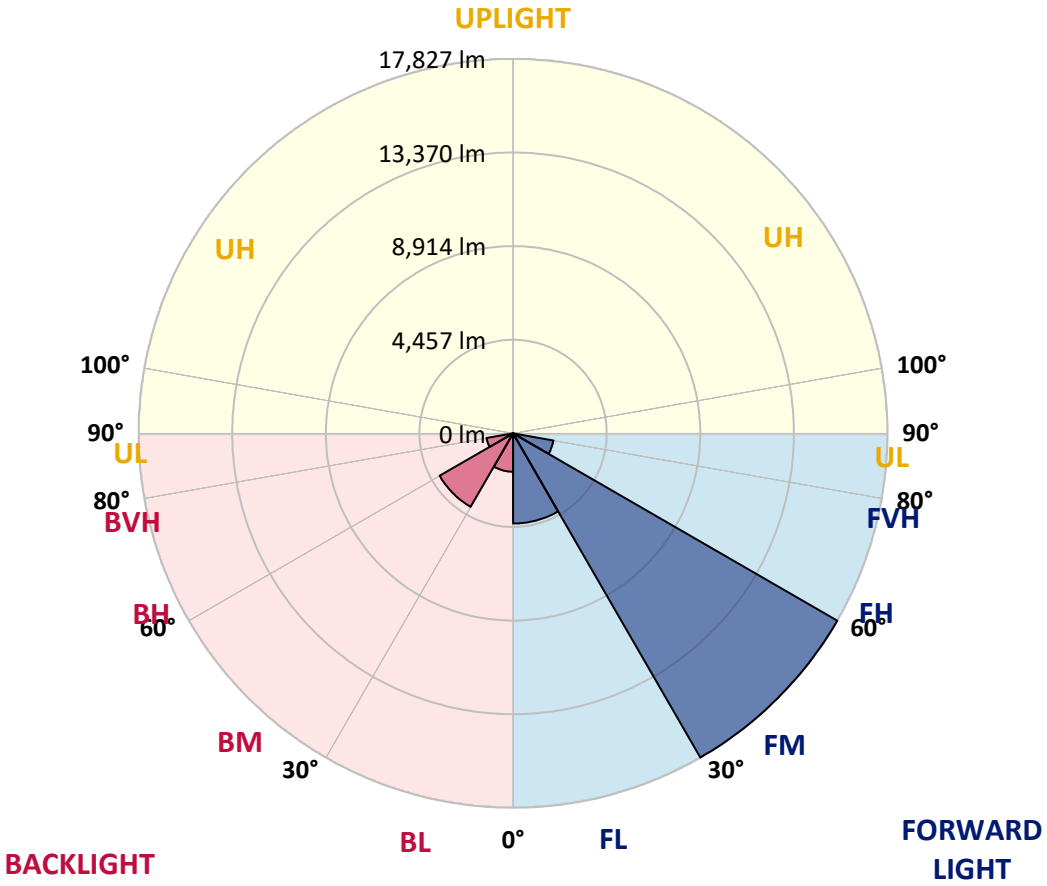
REPORT NUMBER: P643443
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4291.6	13.7			
FM	(30°-60°)	17827.0	57.0			
FH	(60°-80°)	1949.4	6.2			G2/5000
FVH	(80°-90°)	30.0	0.1			G1/100
BL	(0°-30°)	1828.0	5.8	B3/2500		
BM	(30°-60°)	4039.3	12.9	B3/5000		
BH	(60°-80°)	1284.9	4.1	B3/2500		G3/2500
BVH	(80°-90°)	46.7	0.1			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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REPORT NUMBER: P643443
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	*4741.7*	4741.7	4741.7	4741.7
2.5°	6143.8	6189.7	6118.3	6123.4	5945.0	5863.4	5633.9	*5498.8*	5409.6	5159.8	4932.9
5°	7382.8	7329.2	7273.1	7240.0	7084.5	6865.2	6579.7	*6352.8*	6143.8	5654.3	5182.7
7.5°	8142.4	8114.4	8076.2	8055.8	7902.8	7673.4	7387.9	*7194.1*	6890.7	6227.9	5486.1
10°	8787.4	8754.3	8731.3	8746.6	8621.7	8473.9	8162.8	*7941.1*	7599.4	6834.7	5853.2
12.5°	9287.1	9304.9	9312.6	9394.1	9340.6	9251.4	8930.2	*8695.6*	8315.8	7474.5	6284.0
15°	9682.2	9677.1	9766.3	9921.9	10008.5	9952.4	9695.0	*9498.7*	9034.7	8104.2	6748.0
17.5°	9774.0	9779.1	9919.3	10192.1	10475.0	10612.7	10467.4	*10232.9*	9774.0	8726.2	7229.8
20°	9847.9	9858.1	10003.4	10314.4	10727.4	11112.4	11135.3	*10967.1*	10571.9	9399.2	7719.3
22.5°	10314.4	10337.4	10375.6	10571.9	10944.1	11431.0	11698.7	*11663.0*	11331.6	10105.4	8247.0
25°	11540.7	11471.8	11285.7	11229.6	11372.4	11767.5	12223.9	*12292.7*	12129.5	10882.9	8815.5
27.5°	13054.9	12981.0	12705.7	12415.1	12106.6	12244.3	12731.2	*12937.7*	12940.2	11739.5	9386.5
30°	14429.0	14370.4	14146.0	13730.5	13197.7	12998.8	13358.3	*13636.2*	13801.9	12728.6	10036.6
32.5°	15604.2	15550.7	15247.3	14908.3	14388.2	13988.0	14118.0	*14385.7*	14773.2	14008.4	10844.7
35°	16593.4	16539.8	16249.2	15907.6	15425.8	15186.1	15140.3	*15323.8*	15826.0	15344.2	11772.6
37.5°	17396.4	17342.8	17039.5	16718.3	16351.2	16366.5	16435.3	*16524.5*	16812.6	16774.4	12764.3
40°	17916.4	17860.4	17643.7	17414.2	17182.2	17365.8	17707.4	*17600.3*	17753.3	17929.2	13677.0
42.5°	18148.4	18077.0	17952.1	17901.1	17829.8	18115.3	18773.0	*18665.9*	18482.4	18699.1	14355.1
45°	17916.4	17855.3	17852.7	18008.2	18173.9	18541.0	19509.7	*19423.1*	18959.1	19071.3	14760.4
47.5°	17205.2	17151.6	17297.0	17704.8	18112.7	18648.1	19838.6	*19853.9*	19298.2	19226.8	15023.0
50°	*15668.0*	*15632.3*	*16052.9*	*16825.3*	*17528.9*	*18314.1*	*19734.1*	*19910.0*	*19379.7*	*19178.3*	*14989.8*
52.5°	12542.5	12708.2	13623.4	14913.4	16279.8	17727.8	19346.6	*19576.0*	18987.1	18859.7	14811.4
55°	8586.0	8662.5	9577.7	11461.6	13628.5	16458.2	18456.9	*18811.2*	18523.2	18806.1	14997.5
57.5°	4446.0	4507.2	5228.6	6900.9	9243.7	13006.5	15986.6	*17149.1*	17587.6	19076.4	15576.2
60°	1825.3	1876.3	2174.5	2982.7	4662.7	7574.0	11505.0	*13228.3*	14258.2	17421.9	13832.5
62.5°	1325.6	1351.1	1493.9	1779.4	2442.2	3711.8	6510.9	*7145.7*	7869.7	10918.6	8782.3
65°	1116.6	1144.6	1259.4	1432.7	1782.0	2276.5	2781.3	*2796.6*	3082.1	4448.5	3255.4
67.5°	935.6	961.1	1063.1	1210.9	1440.4	1616.3	1493.9	*1496.4*	1491.3	1613.7	1560.2
70°	729.1	749.5	851.5	1009.5	1129.3	1037.6	1167.6	*1292.5*	1239.0	1287.4	1361.3
72.5°	532.8	555.7	645.0	764.8	734.2	739.3	945.8	*1073.3*	1042.7	1096.2	1165.0
75°	384.9	400.2	446.1	382.4	402.8	486.9	665.4	*734.2*	764.8	810.7	871.9
77.5°	124.9	124.9	140.2	175.9	219.2	270.2	339.1	*367.1*	413.0	464.0	507.3
80°	63.7	66.3	79.0	96.9	122.4	155.5	198.8	*211.6*	234.5	262.6	280.4
82.5°	30.6	33.1	38.2	48.4	63.7	81.6	109.6	*122.4*	137.7	155.5	168.3
85°	7.6	7.6	10.2	15.3	20.4	30.6	40.8	*48.4*	61.2	73.9	81.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	7.6	*10.2*	12.7	15.3	20.4
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: P643443
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7
2.5°	4830.9	4688.2	4504.6	4349.1	4206.3	4096.7	4002.4	3956.5	3913.2	3882.6	3892.8
5°	4963.5	4718.7	4377.1	4140.1	3994.7	3920.8	3869.8	3844.3	3839.2	3818.8	3811.2
7.5°	5157.2	4808.0	4351.6	4112.0	4015.1	3976.9	3948.9	3933.6	3941.2	3920.8	3913.2
10°	5396.9	4955.8	4415.4	4203.8	4119.7	4091.6	4061.0	4040.6	4030.4	3999.8	3994.7
12.5°	5695.1	5139.4	4530.1	4321.1	4236.9	4188.5	4147.7	4112.0	4089.1	4050.8	4040.6
15°	6016.3	5343.3	4665.2	4435.8	4336.3	4265.0	4198.7	4145.2	4104.4	4053.4	4045.7
17.5°	6365.6	5557.5	4777.4	4514.8	4387.3	4293.0	4196.1	4117.1	4061.0	3994.7	3987.1
20°	6730.1	5774.2	4861.5	4553.0	4389.9	4262.4	4132.4	4027.9	3956.5	3890.2	3885.1
22.5°	7107.4	5973.0	4912.5	4542.8	4349.1	4191.0	4035.5	3918.3	3834.1	3755.1	3750.0
25°	7487.3	6164.2	4925.2	4502.1	4267.5	4084.0	3928.5	3790.8	3696.5	3607.3	3597.1
27.5°	7872.2	6324.8	4894.6	4420.5	4157.9	3959.1	3803.5	3668.4	3571.6	3482.3	3467.0
30°	8282.7	6462.5	4828.4	4313.4	4030.4	3826.5	3673.5	3571.6	3479.8	3390.6	3375.3
32.5°	8721.1	6582.3	4734.0	4183.4	3882.6	3693.9	3581.8	3490.0	3398.2	3319.2	3303.9
35°	9243.7	6661.3	4593.8	4015.1	3744.9	3597.1	3520.6	3413.5	3301.3	3214.7	3207.0
37.5°	9784.2	6722.5	4425.6	3854.5	3625.1	3541.0	3477.2	3331.9	3191.7	3087.2	3074.4
40°	10306.8	6773.5	4216.5	3704.1	3515.5	3500.2	3413.5	3232.5	2990.3	2873.1	2862.9
42.5°	10793.7	6788.8	3997.3	3543.5	3416.1	3408.4	3311.5	3031.1	2845.0	2771.1	2760.9
45°	11127.7	6776.0	3770.4	3393.1	3316.6	3275.8	3173.9	2885.8	2771.1	2704.8	2692.1
47.5°	11374.9	6709.7	3515.5	3235.1	3204.5	3148.4	2929.1	2794.0	2687.0	2620.7	2607.9
50°	*11331.6*	*6434.4*	*3258.0*	*3082.1*	*3069.3*	*3020.9*	*2750.7*	*2679.3*	*2585.0*	*2513.6*	*2503.4*
52.5°	11107.3	5911.8	2995.4	2913.8	2939.3	2845.0	2623.2	2541.6	2460.1	2378.5	2360.6
55°	11163.4	5534.5	2796.6	2750.7	2796.6	2582.4	2480.5	2393.8	2317.3	2238.3	2223.0
57.5°	11408.1	5162.3	2585.0	2574.8	2623.2	2381.0	2296.9	2187.3	2077.7	2013.9	2013.9
60°	9580.2	3762.8	2212.8	2238.3	2347.9	2217.9	2144.0	2031.8	1912.0	1855.9	1855.9
62.5°	5664.5	2360.6	1835.5	1807.4	1876.3	1957.9	1998.6	1906.9	1764.1	1690.2	1692.7
65°	2495.8	1718.2	1618.8	1595.9	1575.5	1631.5	1743.7	1751.4	1601.0	1514.3	1516.8
67.5°	1537.2	1555.1	1514.3	1496.4	1478.6	1468.4	1458.2	1463.3	1422.5	1343.5	1340.9
70°	1386.8	1435.3	1407.2	1391.9	1369.0	1351.1	1289.9	1190.5	1121.7	1101.3	1124.2
72.5°	1193.1	1259.4	1244.1	1236.4	1208.4	1165.0	1083.4	986.6	905.0	854.0	864.2
75°	899.9	953.4	961.1	963.6	933.0	892.3	808.1	726.5	655.2	601.6	614.4
77.5°	517.5	548.1	555.7	563.4	540.5	525.2	469.1	410.4	372.2	316.1	331.4
80°	288.1	300.8	300.8	303.4	290.6	272.8	234.5	201.4	183.5	158.1	160.6
82.5°	173.4	178.5	181.0	183.5	175.9	158.1	130.0	107.1	96.9	84.1	81.6
85°	84.1	89.2	89.2	91.8	79.0	68.8	53.5	40.8	35.7	25.5	28.0
87.5°	20.4	22.9	22.9	20.4	17.8	12.7	7.6	2.5	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

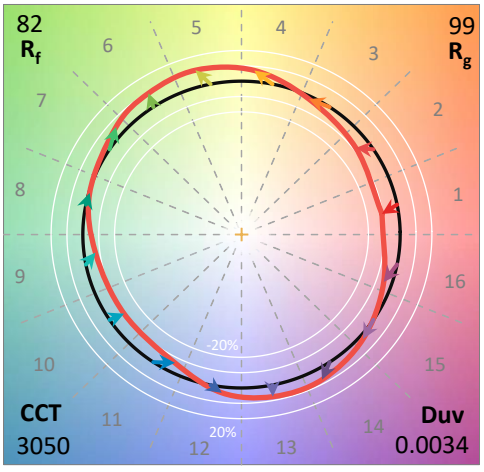
Test Information

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

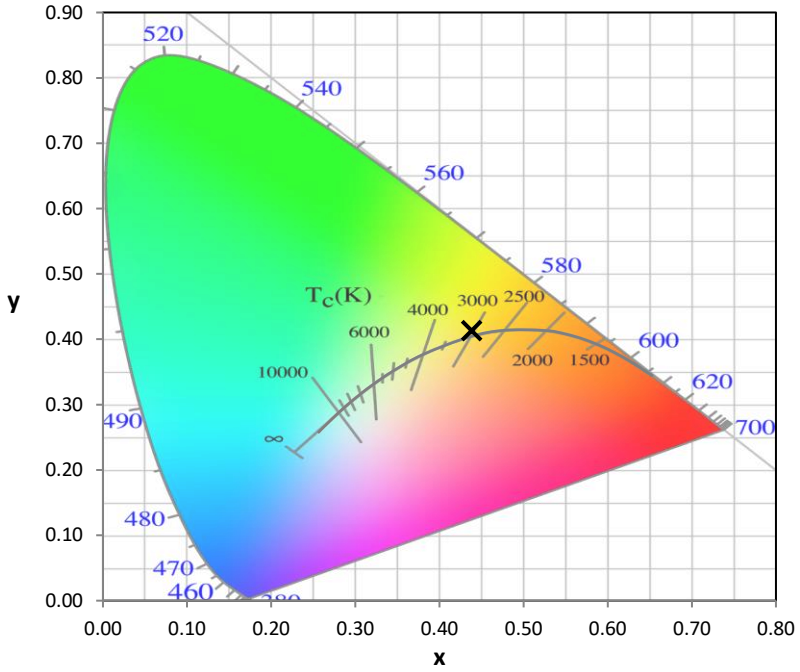
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

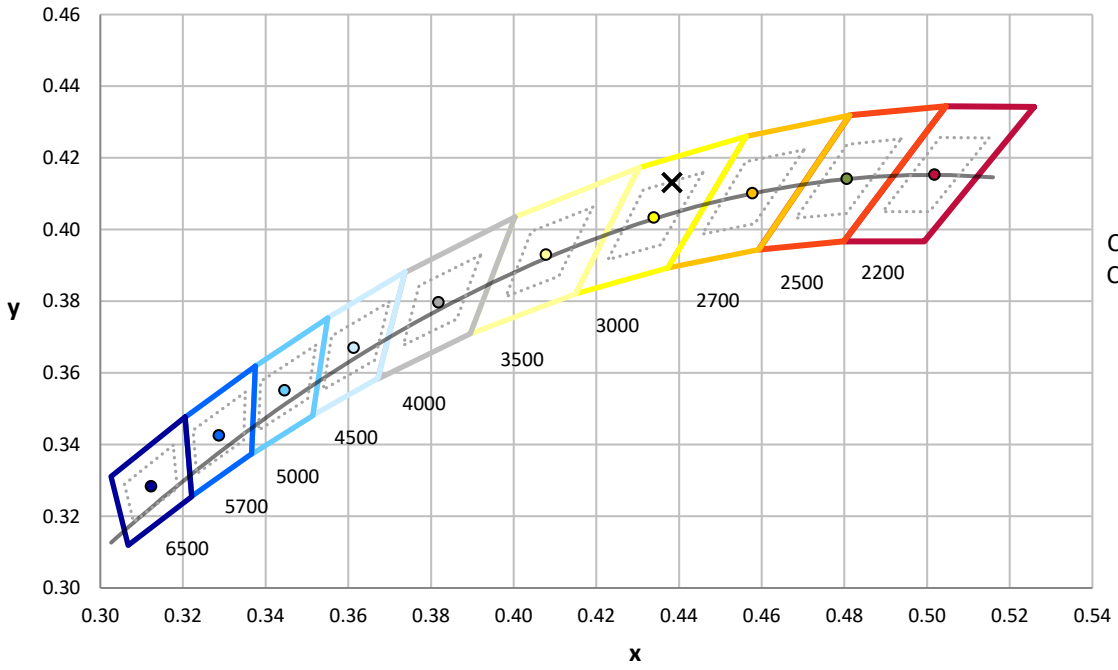
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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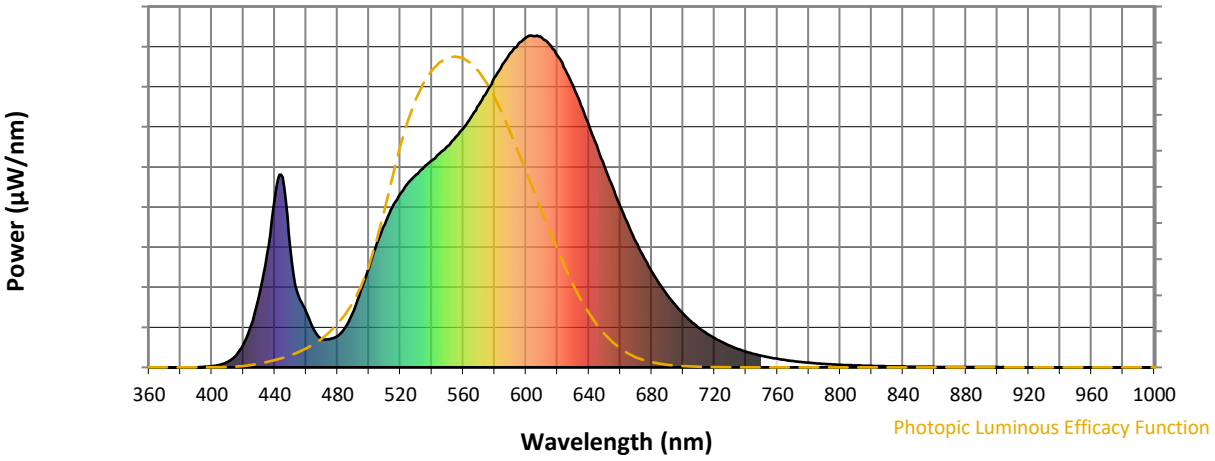
Photopic Flux vs. Wavelength



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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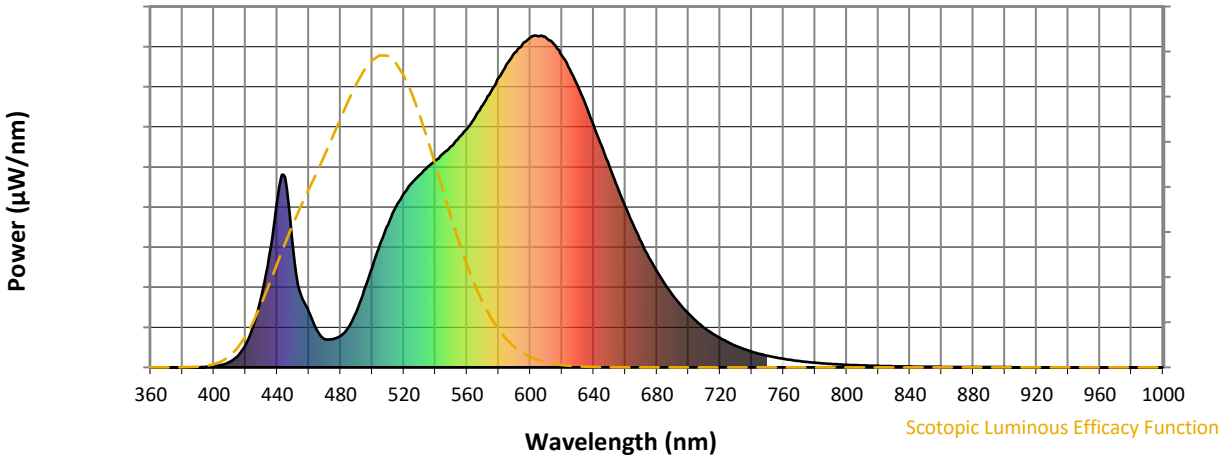
Scotopic Flux vs. Wavelength



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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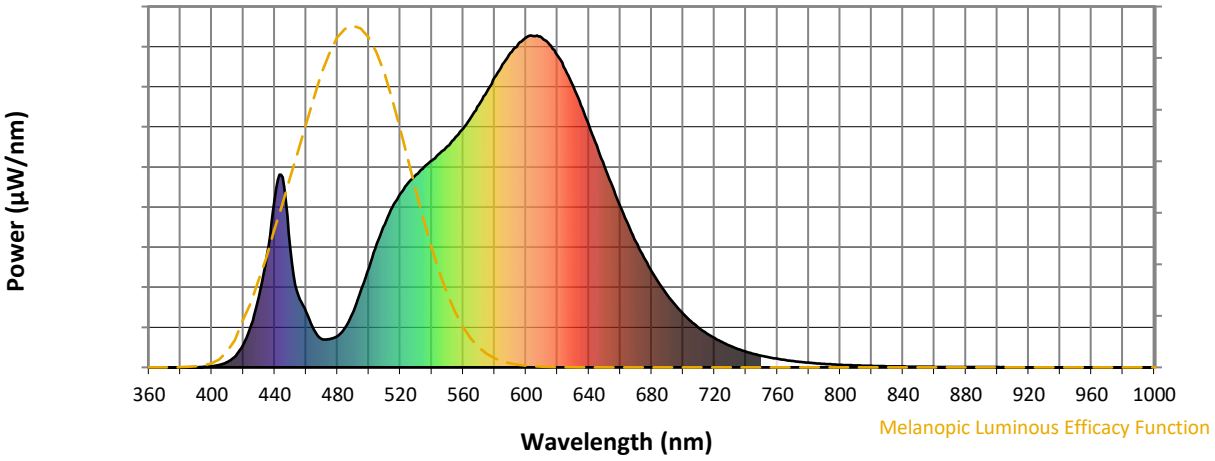
Melanopic Flux vs. Wavelength



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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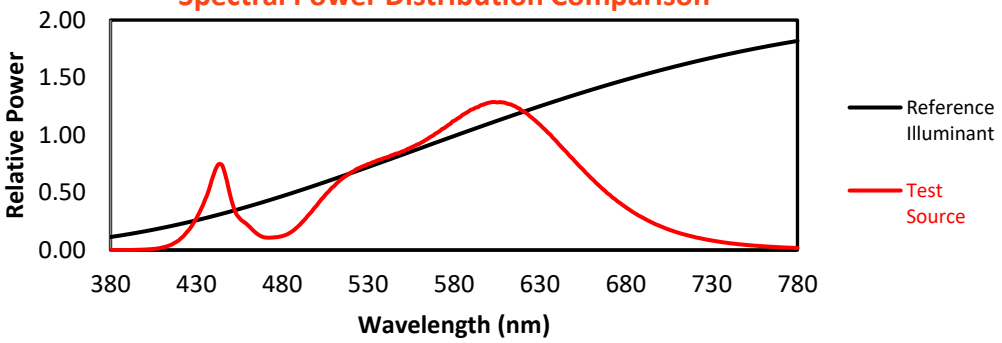
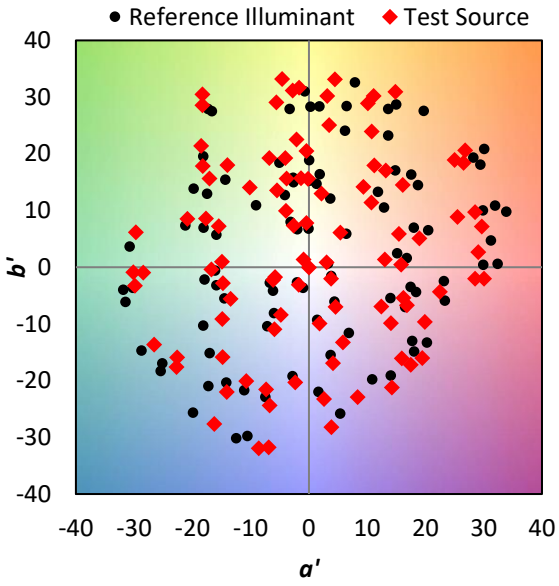
Summary

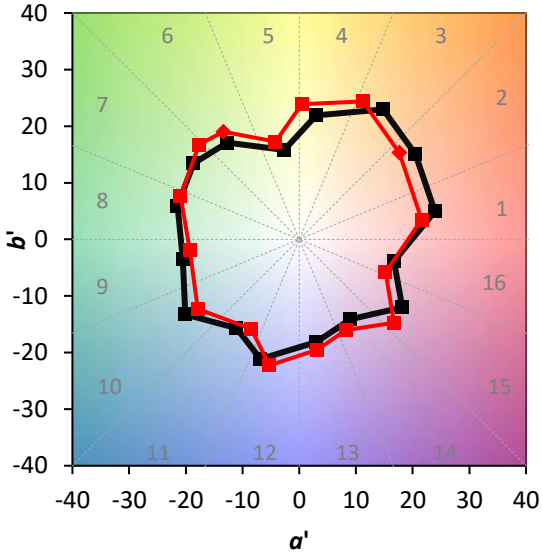
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

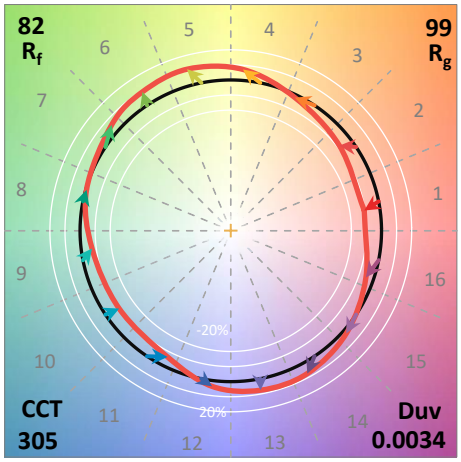
Spectral Power Distribution Comparison

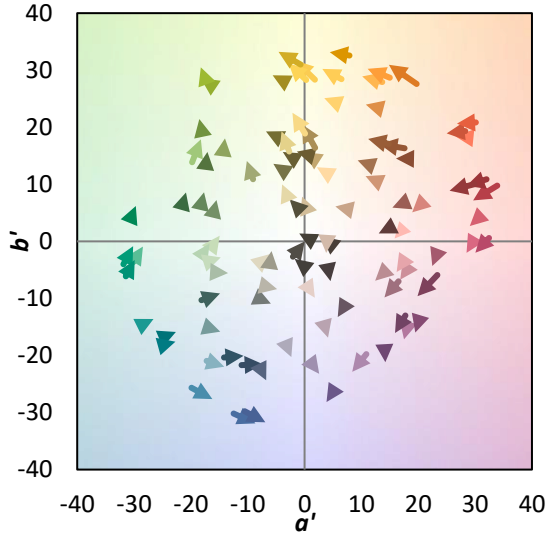


Color Vector Graphics









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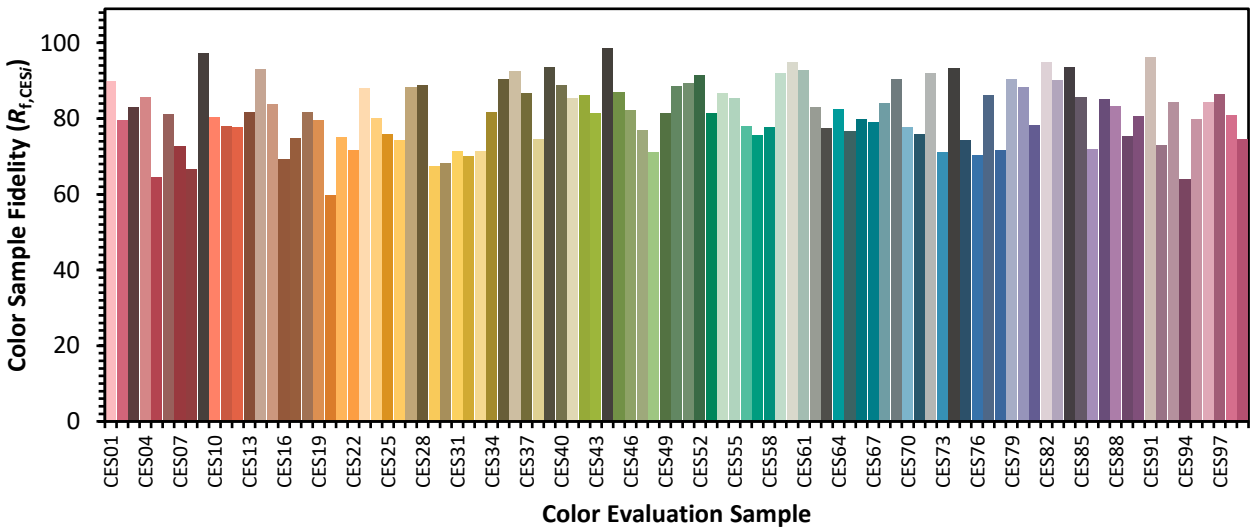
Individual Sample Fidelity Index ($R_{f,i}$)

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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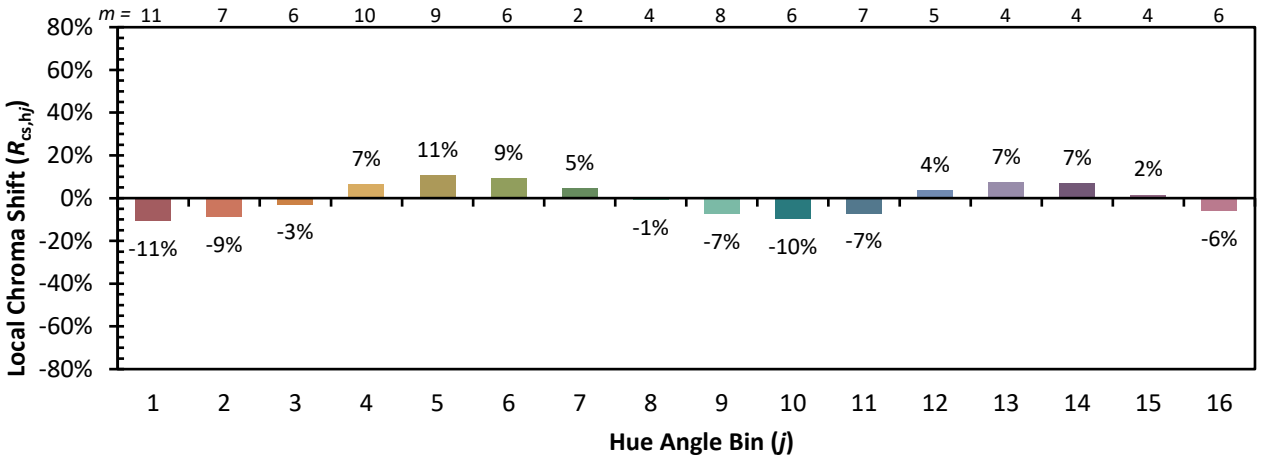
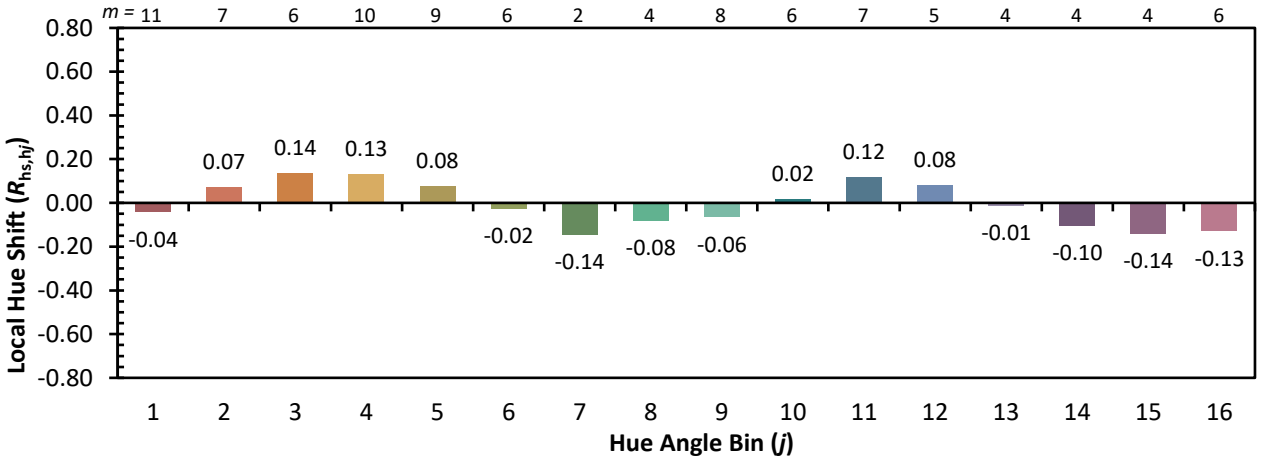
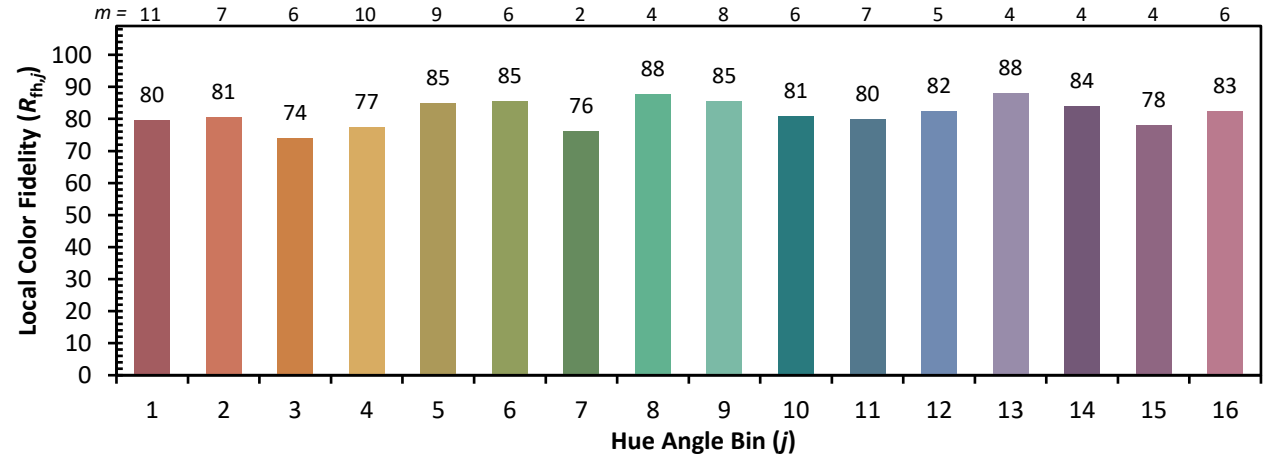
Color Rendition by Hue-Angle Bin







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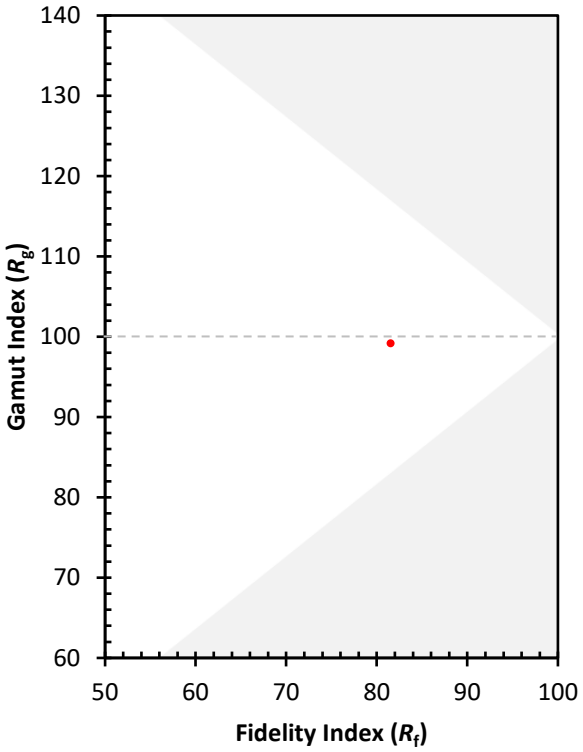
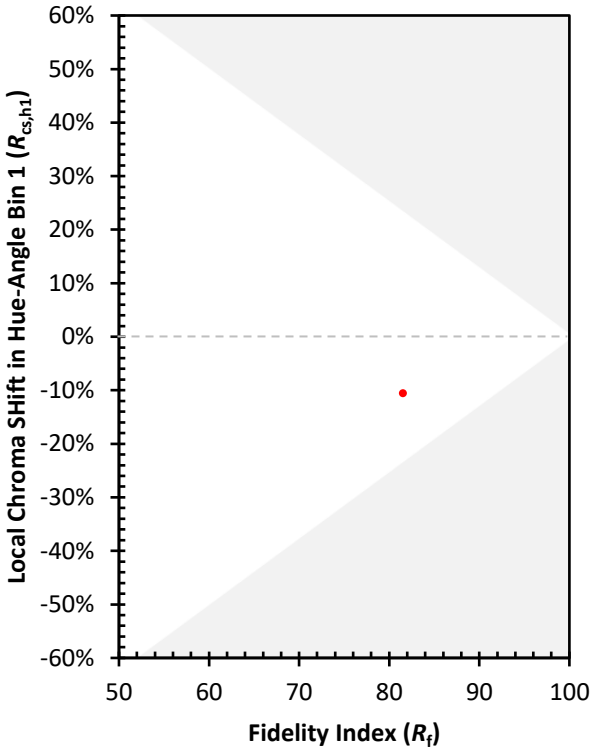
Measure Comparisons





(END OF REPORT)