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: P642454

Luminaire Tested: GWS-SA6C-830-U-T2R-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:	P642454
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18191.3 lumens
Efficiency:	N/A
Efficacy:	96.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	189.2
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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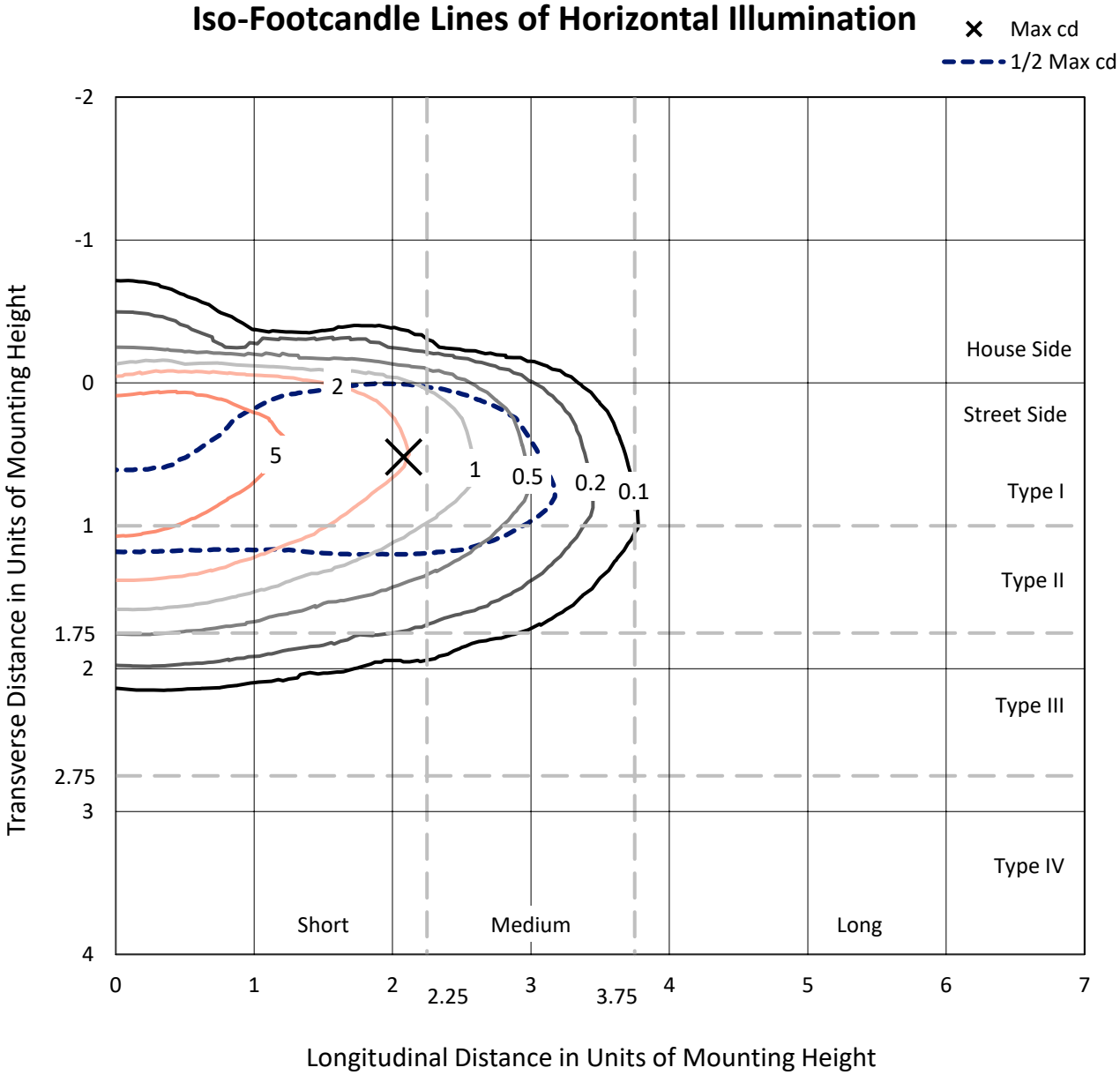
Scaled Data Report

REPORT NUMBER: P642454
CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type II - Short - N/A

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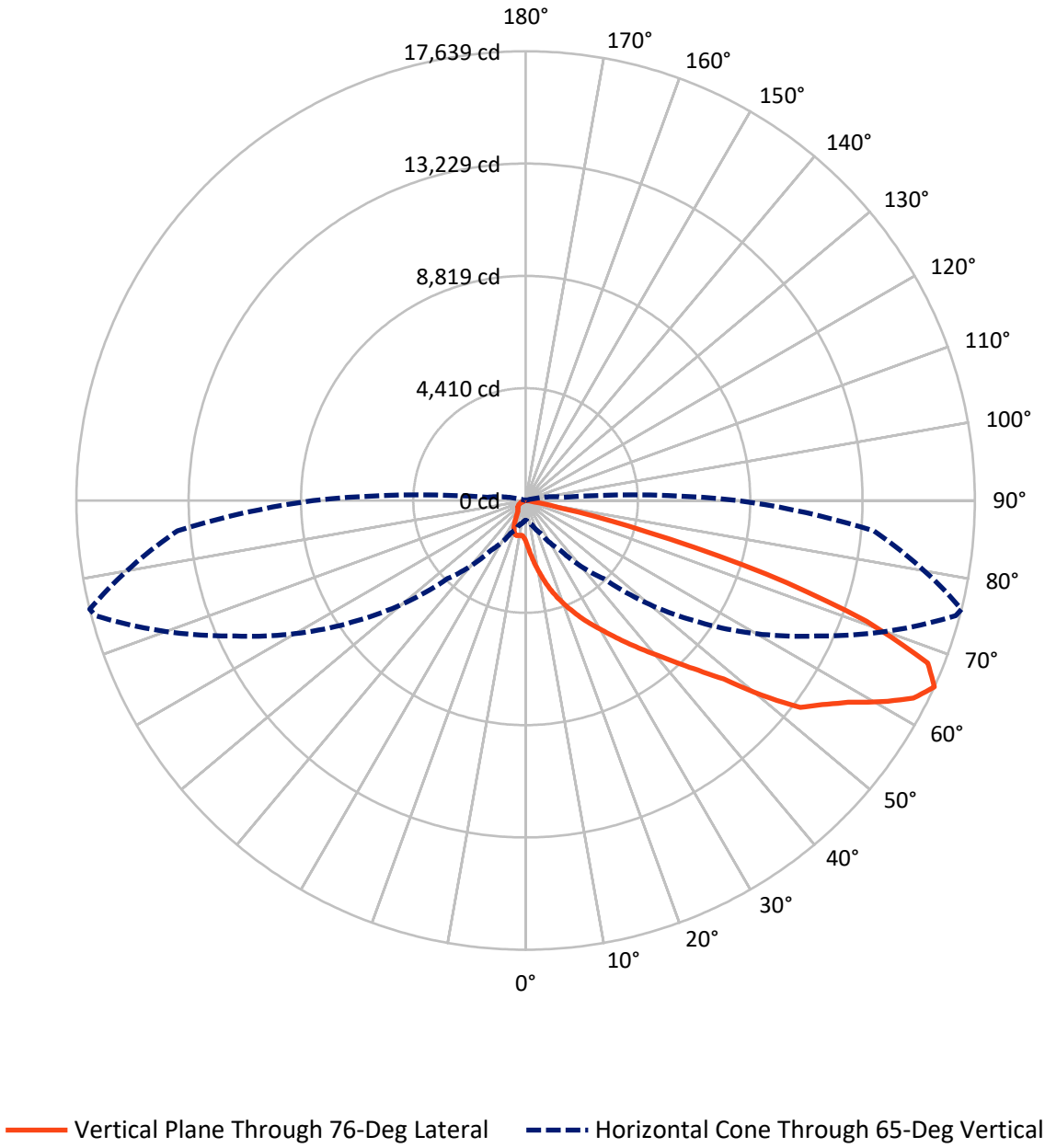
Luminous Intensity Polar Plot



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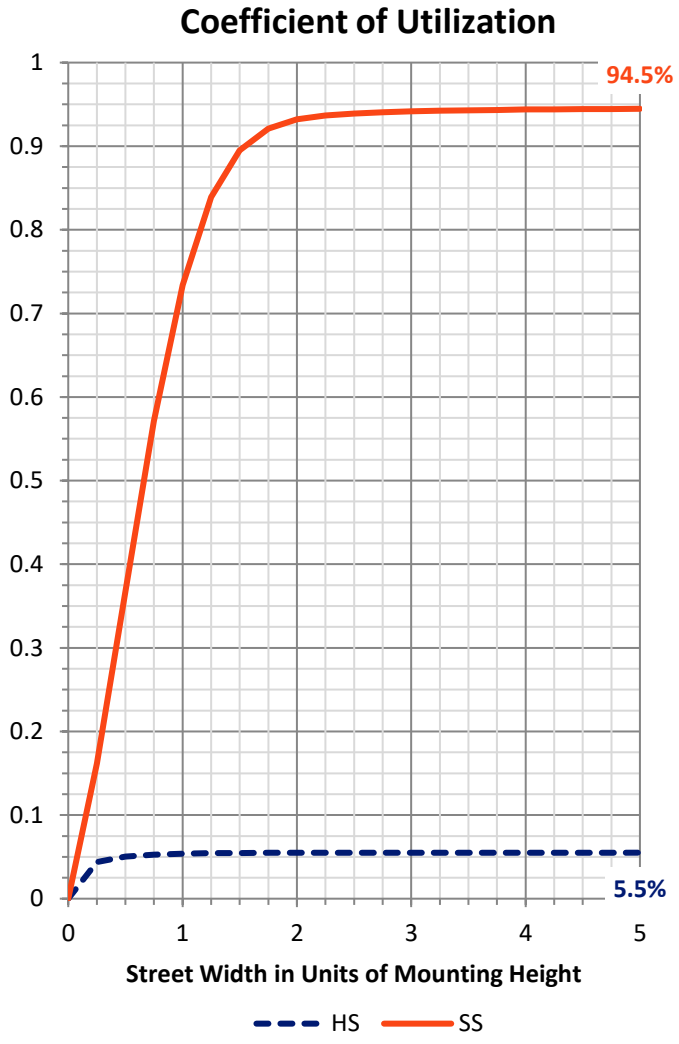
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.9	0.0	1005.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	17185.4	0.0	17185.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	18191.3	0.0	18191.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	1.1
10°-20°	743.5	4.1
20°-30°	1516.8	8.3
30°-40°	2697.7	14.8
40°-50°	3987.8	21.9
50°-60°	4565.8	25.1
60°-70°	3483.5	19.1
70°-80°	975.8	5.4
80°-90°	24.6	0.1
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°	18191.3	100.0
0°-180°	18191.3	100.0



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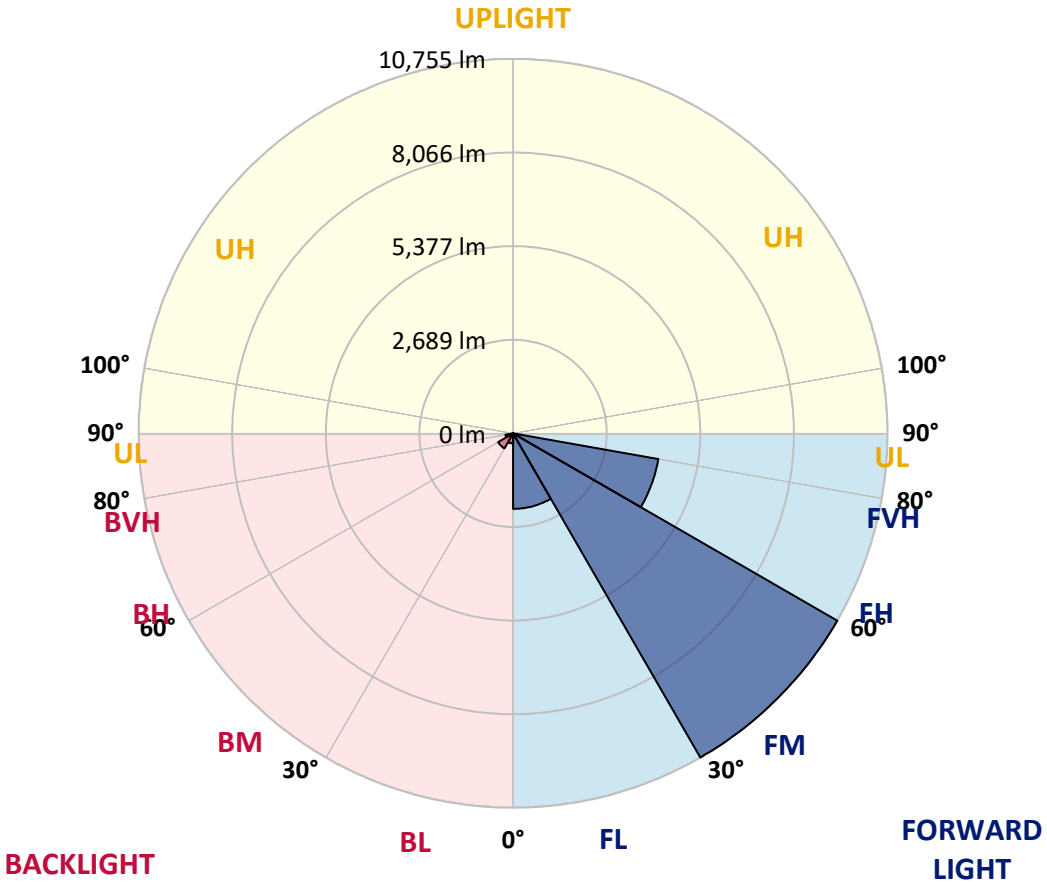
REPORT NUMBER: P642454
CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2169.2	11.9			
FM	(30°-60°)	10755.0	59.1			
FH	(60°-80°)	4238.1	23.3			G2/5000
FVH	(80°-90°)	23.1	0.1			G1/100
BL	(0°-30°)	287.0	1.6	B1/500		
BM	(30°-60°)	496.3	2.7	B1/1000		
BH	(60°-80°)	221.1	1.2	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			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 II Short



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Scaled Data Report

REPORT NUMBER: P642454
CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	*1610.6*	1610.6
2.5°	2482.2	2519.4	2490.3	2441.8	2348.0	2257.4	2141.0	1980.9	1853.2	*1837.0*	1717.3
5°	3352.2	3348.9	3285.9	3222.8	3124.2	2968.9	2734.5	2436.9	2150.7	*2126.4*	1858.0
7.5°	3869.6	3874.5	3838.9	3790.4	3693.4	3533.3	3289.1	2930.1	2511.3	*2462.8*	2050.4
10°	4304.6	4303.0	4277.1	4254.5	4167.2	4060.4	3798.5	3403.9	2899.4	*2823.4*	2265.5
12.5°	4631.3	4642.6	4655.5	4678.2	4641.0	4535.9	4288.4	3858.3	3292.3	*3208.3*	2511.3
15°	4890.0	4893.2	4941.7	5029.1	5059.8	5004.8	4780.0	4298.2	3680.4	*3607.7*	2794.3
17.5°	4967.6	4974.1	5056.6	5216.6	5378.3	5409.1	5239.3	4741.2	4062.1	*3984.4*	3069.2
20°	5130.9	5145.5	5206.9	5347.6	5551.4	5716.3	5650.0	5189.2	4443.7	*4341.8*	3350.6
22.5°	5645.2	5653.2	5632.2	5650.0	5755.1	5945.9	5986.4	5622.5	4835.0	*4726.7*	3654.6
25°	6529.7	6532.9	6385.8	6246.7	6167.5	6203.0	6292.0	6021.9	5223.1	*5116.4*	3937.5
27.5°	7448.2	7459.5	7283.2	7047.2	6764.2	6602.5	6576.6	6387.4	5614.4	*5496.4*	4217.3
30°	8313.3	8313.3	8127.4	7839.5	7461.1	7145.8	6959.8	6756.1	6033.3	*5903.9*	4503.5
32.5°	9091.1	9084.7	8846.9	8534.9	8161.3	7815.3	7423.9	7140.9	6499.0	*6355.1*	4833.4
35°	9733.1	9716.9	9446.9	9147.7	8748.3	8491.2	8054.6	7554.9	7003.5	*6859.6*	5173.0
37.5°	10218.2	10200.4	9953.0	9636.1	9265.8	9099.2	8733.8	8051.4	7535.5	*7404.5*	5549.8
40°	10481.8	10446.2	10274.8	10038.7	9728.2	9582.7	9430.7	8667.5	8161.3	*7998.0*	5994.4
42.5°	10559.4	10517.4	10404.2	10294.2	10106.6	9991.8	10155.1	9362.8	8848.6	*8707.9*	6502.2
45°	10329.8	10305.5	10295.8	10375.1	10409.0	10441.4	10844.0	10132.5	9607.0	*9500.2*	7140.9
47.5°	9776.8	9770.3	9856.0	10185.9	10544.9	10886.1	11592.7	11081.7	10590.1	*10475.3*	8033.6
50°	8754.8	8821.1	9060.4	9639.3	10357.3	11138.3	12292.9	12398.0	12181.3	*12013.2*	9197.8
52.5°	7157.1	7284.9	7821.7	8701.4	9733.1	11067.2	12616.3	13452.3	13673.9	*13499.2*	10032.3
55°	5616.1	5735.7	6214.4	7330.1	8706.3	10525.5	12630.9	13816.2	14299.7	*14138.0*	10596.6
57.5°	4183.3	4293.3	4728.3	5795.5	7309.1	9459.8	12284.8	14018.3	15041.9	*14938.4*	11487.6
60°	2734.5	2842.8	3235.7	4168.8	5669.4	7907.4	11432.6	13976.3	16052.6	*16042.9*	12582.4
62.5°	1516.8	1602.5	1887.1	2614.8	3957.0	6123.8	10093.7	13554.2	17030.9	*17092.3*	13484.7
65°	*776.2*	*831.2*	*1004.2*	*1437.6*	*2394.9*	*4341.8*	*8332.7*	*12587.2*	*17483.7*	*17638.9*	*13722.4*
67.5°	507.8	525.5	567.6	747.1	1282.3	2731.2	6271.0	11036.4	16846.6	*17027.7*	12925.2
70°	412.4	426.9	451.2	498.1	661.4	1450.5	4118.7	8814.6	14076.5	*14199.4*	10292.6
72.5°	302.4	321.8	368.7	399.4	477.0	795.6	2142.6	5785.8	9666.8	*9883.5*	6468.2
75°	223.2	234.5	273.3	315.3	389.7	502.9	819.9	3041.7	4991.9	*4865.7*	2716.7
77.5°	134.2	142.3	174.6	202.1	278.1	313.7	286.2	1123.9	1518.4	*1427.9*	656.5
80°	66.3	74.4	114.8	152.0	177.9	126.1	119.7	313.7	338.0	*338.0*	164.9
82.5°	22.6	29.1	61.4	100.3	87.3	48.5	56.6	80.9	90.6	*95.4*	48.5
85°	0.0	0.0	14.6	29.1	12.9	6.5	14.6	17.8	22.6	*24.3*	16.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	*6.5*	6.5
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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CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1652.6	1576.6	1461.8	1358.3	1279.1	1204.7	1148.1	1102.8	1094.8	1068.9	1072.1
5°	1727.0	1589.6	1377.7	1214.4	1099.6	1022.0	957.3	908.8	887.8	866.7	850.6
7.5°	1841.8	1642.9	1345.4	1146.5	1012.3	892.6	792.4	711.5	672.7	648.4	632.3
10°	1982.5	1717.3	1347.0	1106.1	907.2	724.4	587.0	498.1	456.0	443.1	441.5
12.5°	2150.7	1811.1	1359.9	1039.8	755.2	538.5	435.0	394.6	381.6	370.3	370.3
15°	2328.6	1916.2	1359.9	918.5	575.7	420.4	376.8	350.9	334.7	328.3	325.0
17.5°	2516.1	2014.9	1327.6	751.9	441.5	370.3	334.7	310.5	297.5	287.8	284.6
20°	2716.7	2108.6	1246.8	575.7	378.4	331.5	297.5	273.3	260.3	250.6	250.6
22.5°	2920.4	2196.0	1115.8	443.1	334.7	294.3	262.0	239.3	226.4	216.7	216.7
25°	3109.6	2254.2	947.6	365.5	302.4	262.0	232.9	210.2	195.7	189.2	186.0
27.5°	3285.9	2291.4	761.6	321.8	271.7	234.5	203.7	182.7	171.4	166.6	163.3
30°	3468.6	2301.1	582.1	292.7	245.8	207.0	177.9	161.7	152.0	145.5	145.5
32.5°	3646.5	2289.8	444.7	268.4	223.2	182.7	158.5	143.9	135.8	131.0	129.4
35°	3827.6	2238.0	360.6	247.4	200.5	160.1	140.7	129.4	124.5	118.0	118.0
37.5°	4024.9	2168.5	313.7	226.4	177.9	143.9	126.1	118.0	111.6	106.7	105.1
40°	4270.7	2087.6	287.8	208.6	156.9	129.4	113.2	105.1	100.3	95.4	93.8
42.5°	4561.7	2008.4	274.9	189.2	140.7	114.8	101.9	92.2	87.3	80.9	79.2
45°	4974.1	1990.6	260.3	168.2	126.1	103.5	88.9	79.2	72.8	67.9	66.3
47.5°	5637.1	2040.7	236.1	145.5	111.6	90.6	76.0	67.9	59.8	55.0	51.7
50°	6295.2	2027.8	211.8	126.1	98.6	77.6	64.7	56.6	48.5	43.7	42.0
52.5°	6654.2	1966.3	189.2	111.6	85.7	66.3	55.0	45.3	40.4	35.6	34.0
55°	6979.2	1942.1	166.6	97.0	72.8	58.2	45.3	37.2	34.0	29.1	27.5
57.5°	7616.4	1998.7	147.2	84.1	63.1	50.1	38.8	30.7	27.5	22.6	21.0
60°	8282.6	2005.2	126.1	72.8	55.0	42.0	30.7	24.3	21.0	16.2	14.6
62.5°	8630.3	1841.8	103.5	61.4	45.3	35.6	25.9	19.4	16.2	9.7	9.7
65°	*8339.2*	*1489.3*	*87.3*	*50.1*	*35.6*	*27.5*	*19.4*	*14.6*	*9.7*	*4.9*	*1.6*
67.5°	7380.3	1059.2	72.8	40.4	25.9	19.4	14.6	9.7	1.6	0.0	0.0
70°	5404.2	604.8	56.6	29.1	19.4	12.9	9.7	4.9	0.0	0.0	0.0
72.5°	3321.4	323.4	42.0	19.4	14.6	9.7	8.1	3.2	0.0	0.0	0.0
75°	1259.7	155.2	25.9	12.9	11.3	8.1	4.9	1.6	0.0	0.0	0.0
77.5°	341.2	76.0	14.6	9.7	8.1	4.9	3.2	0.0	0.0	0.0	0.0
80°	88.9	35.6	9.7	6.5	4.9	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	16.2	4.9	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.9	6.5	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.6	1.6	1.6	1.6	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

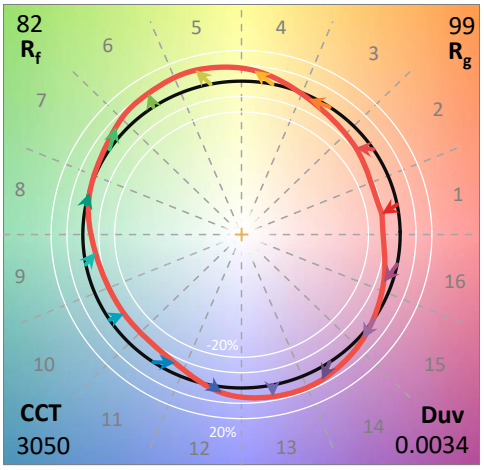
Test Information

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

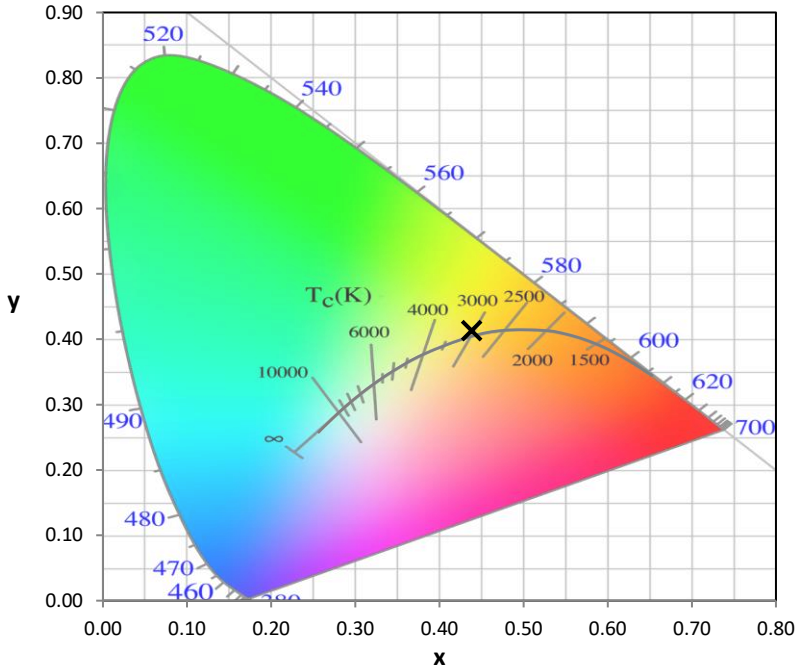
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

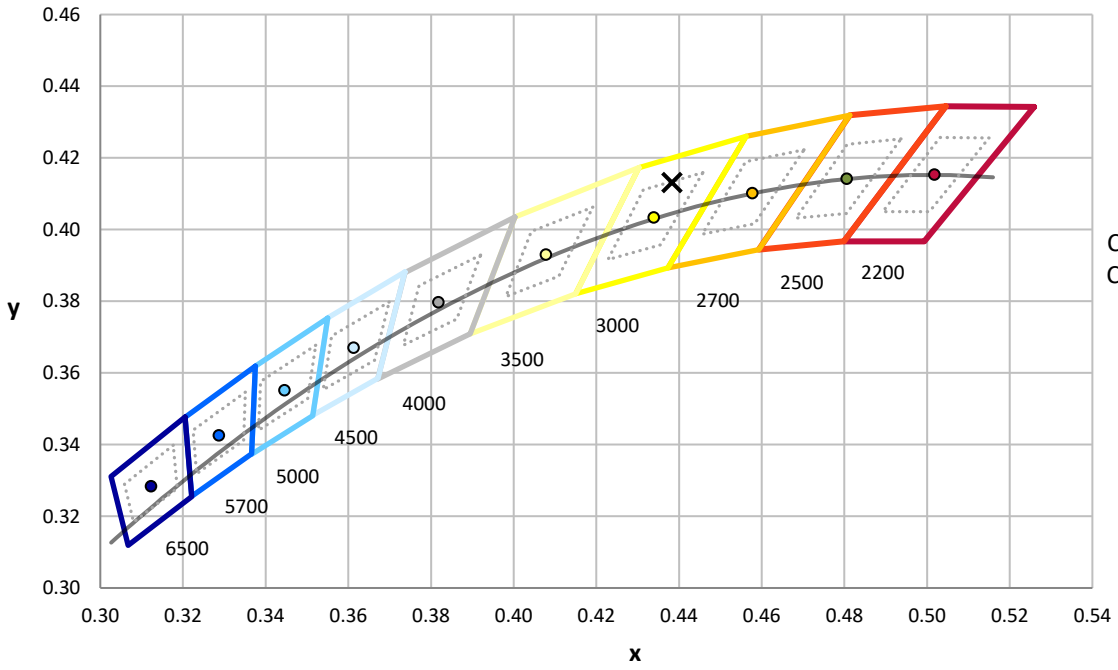
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

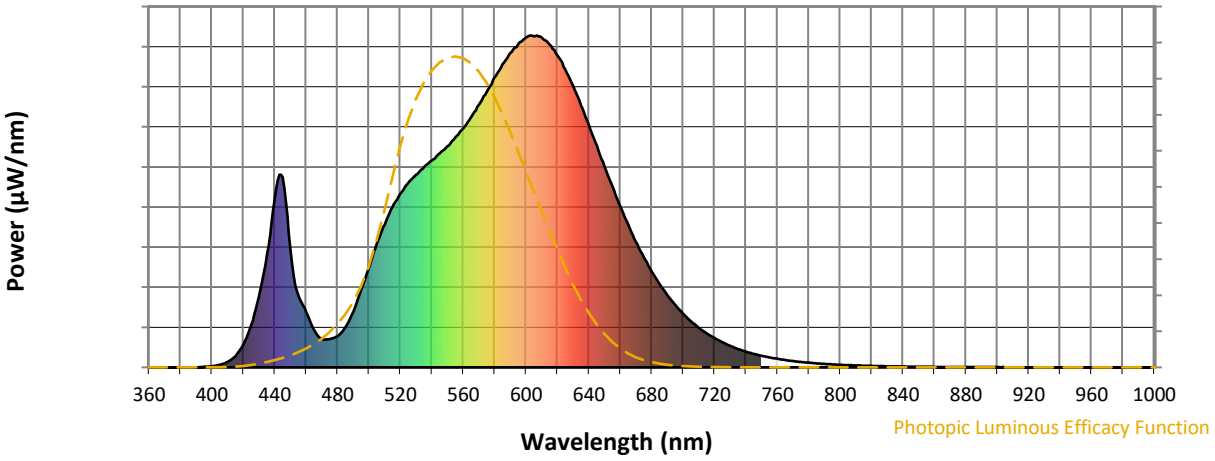


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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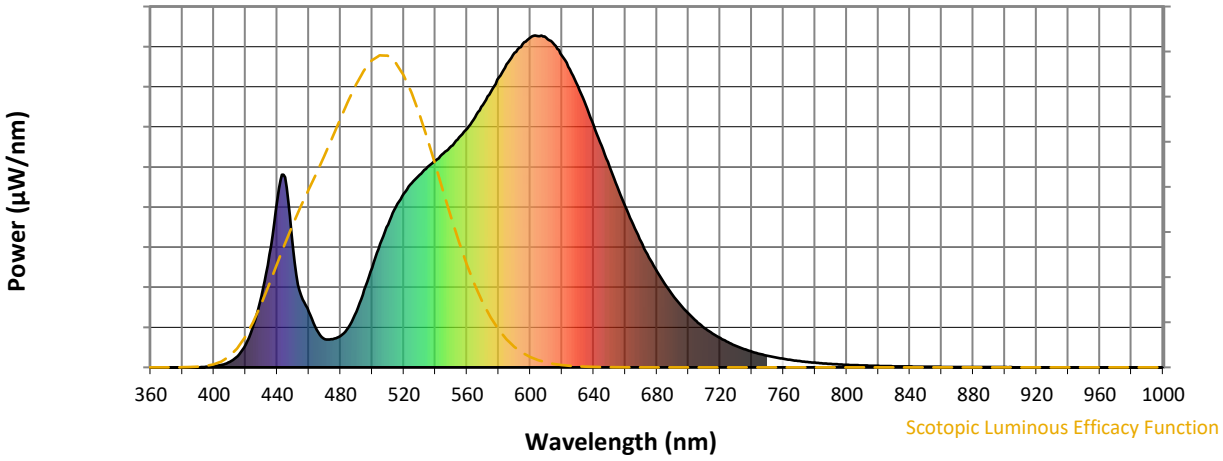
Scotopic Flux vs. Wavelength



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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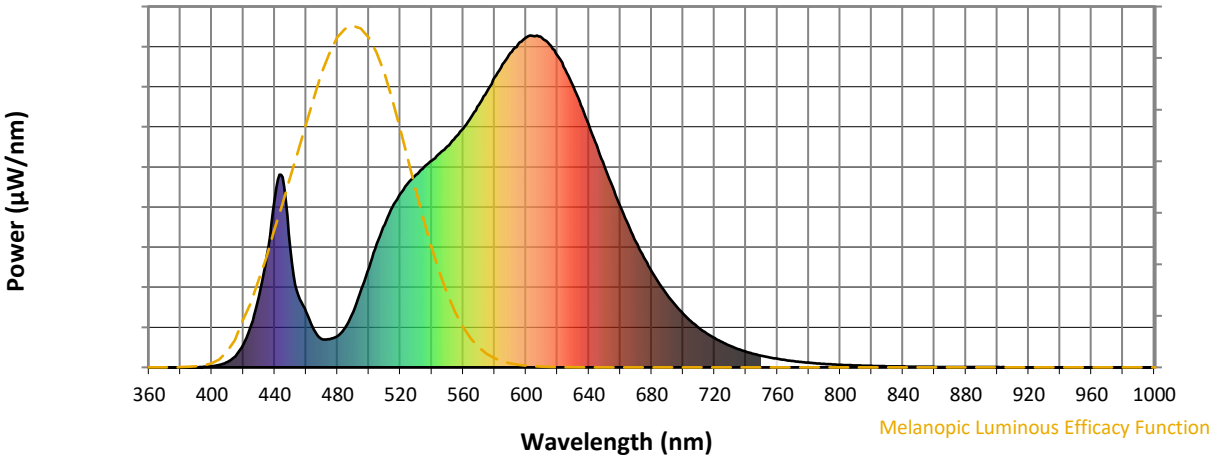
Melanopic Flux vs. Wavelength



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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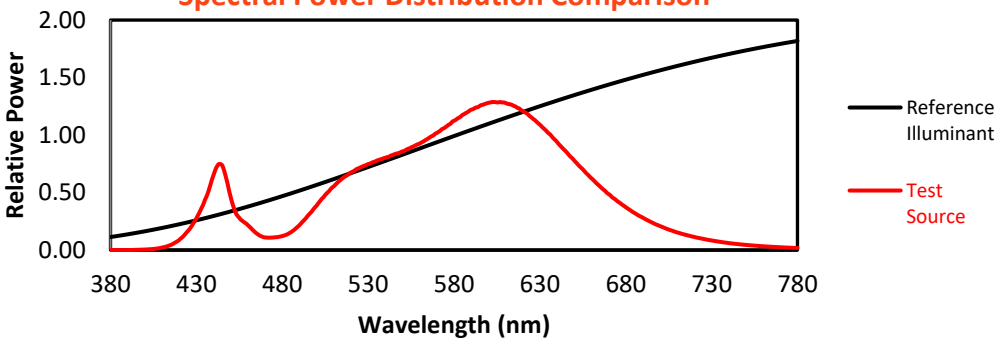
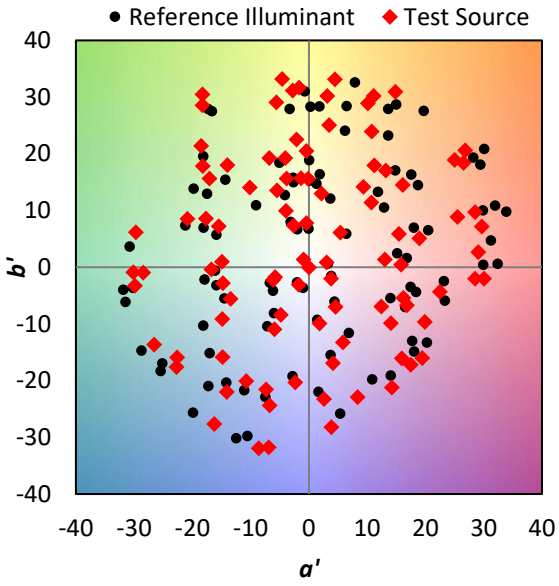
Summary

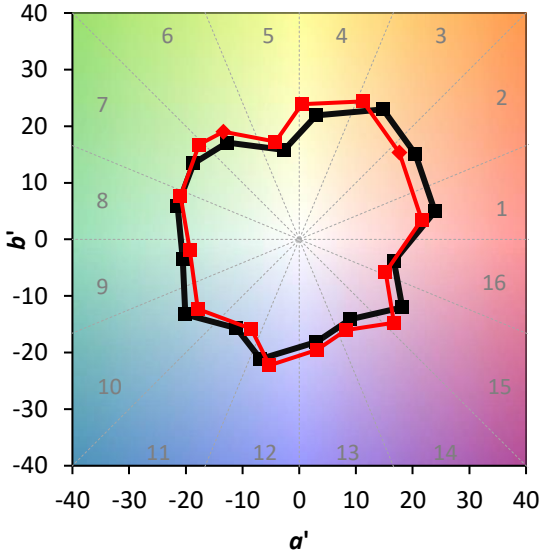
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

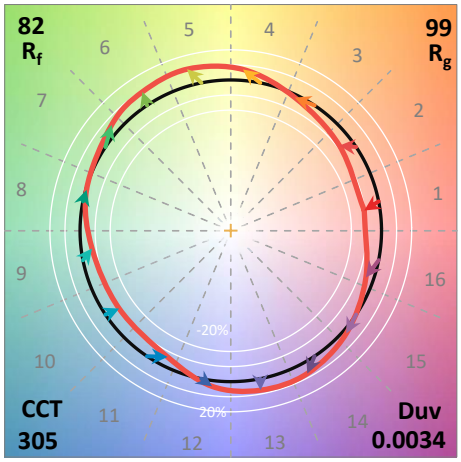
Spectral Power Distribution Comparison

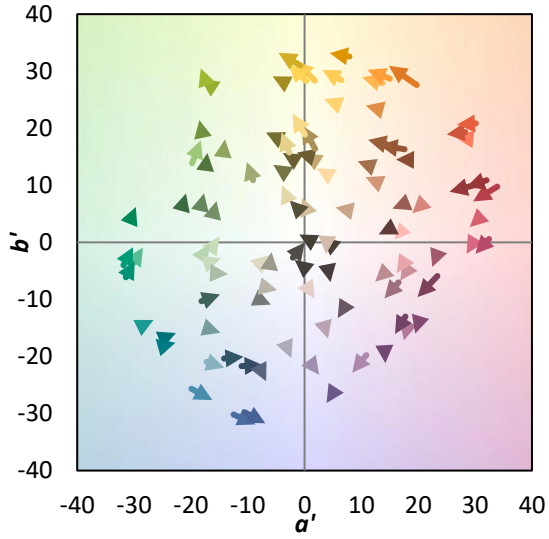


Color Vector Graphics









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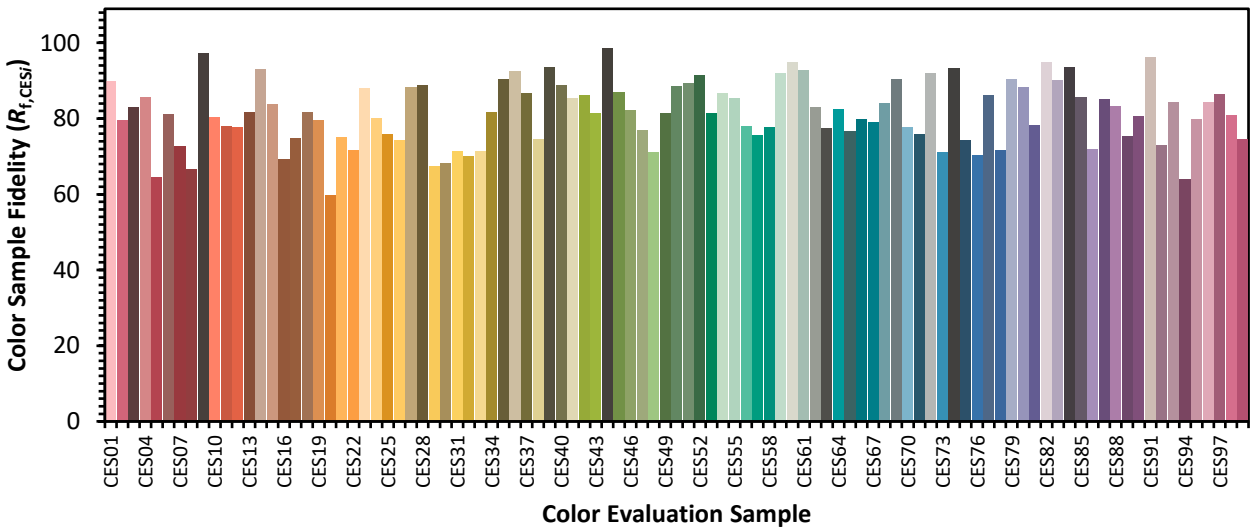
Individual Sample Fidelity Index ($R_{f,i}$)

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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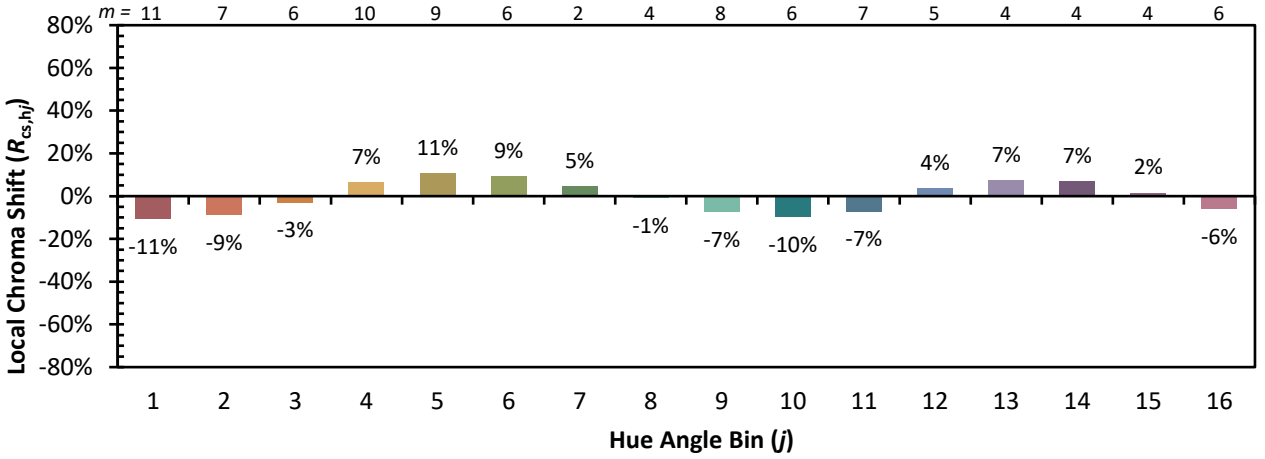
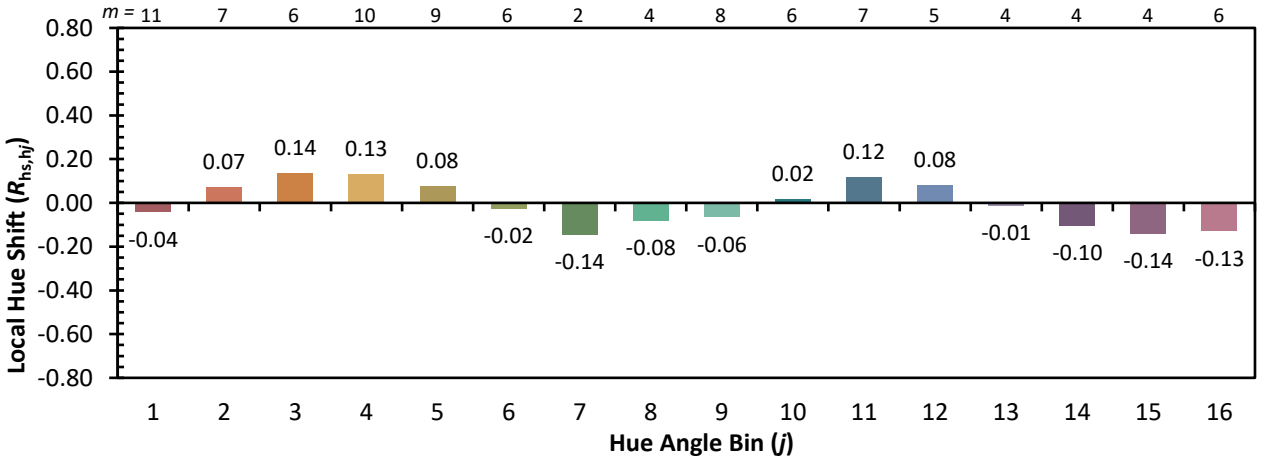
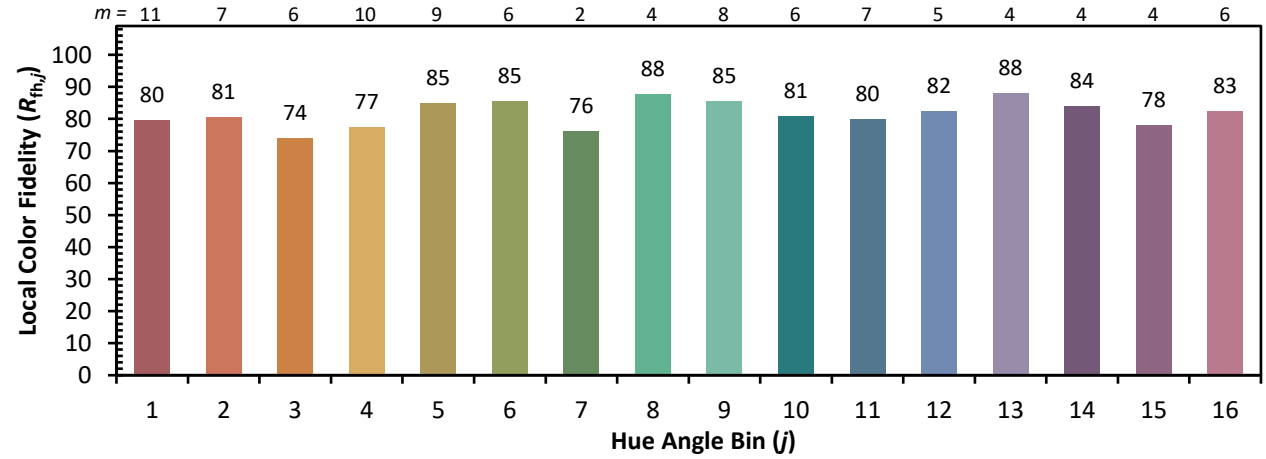
Color Rendition by Hue-Angle Bin







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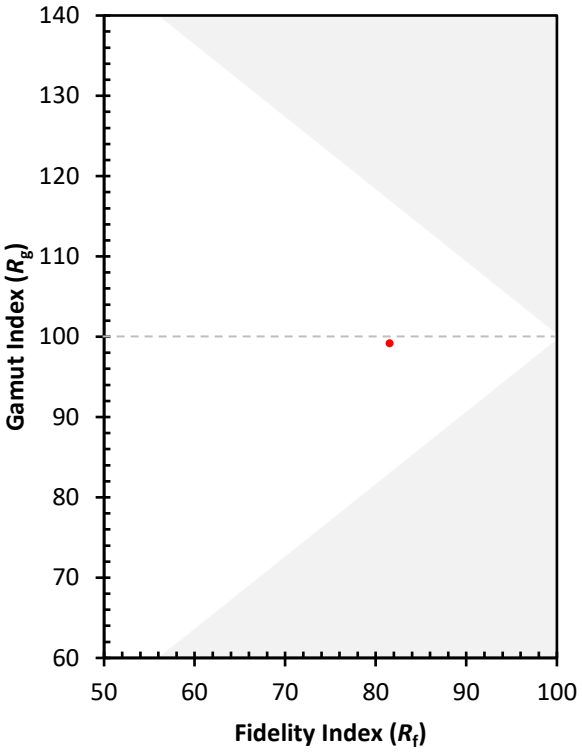
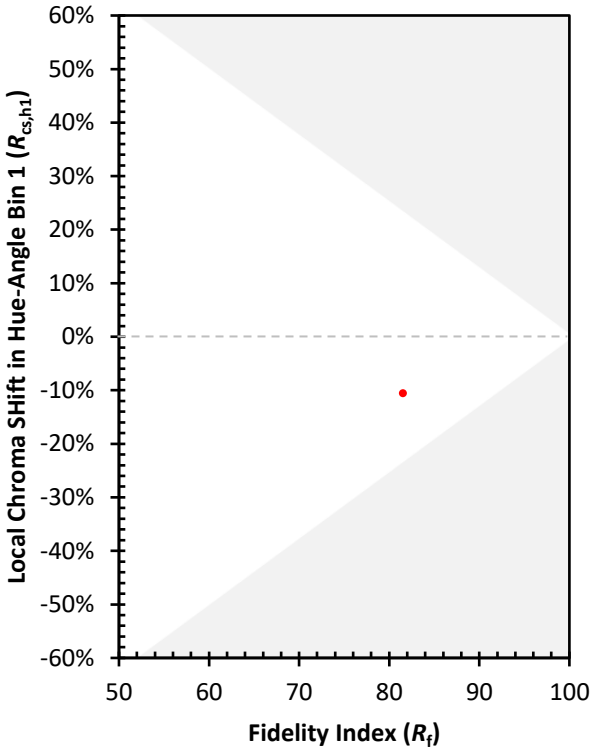
Measure Comparisons





(END OF REPORT)