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: P640969

Luminaire Tested: GWS-SA5E-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:	P640969
	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-SA5E-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24050.7 lumens
Efficiency:	N/A
Efficacy:	89.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	269.6
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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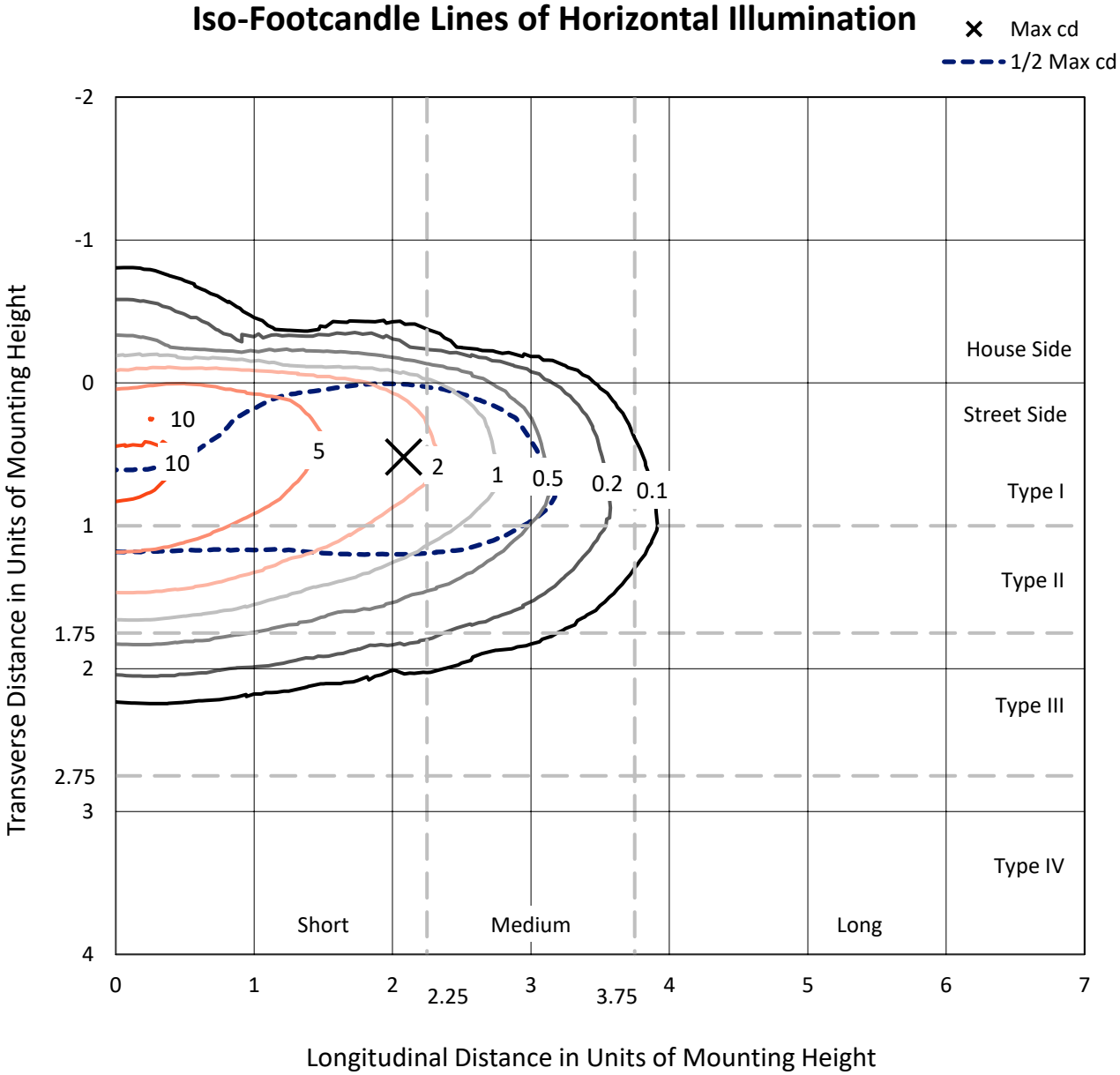
REPORT NUMBER: P640969
CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Short - N/A

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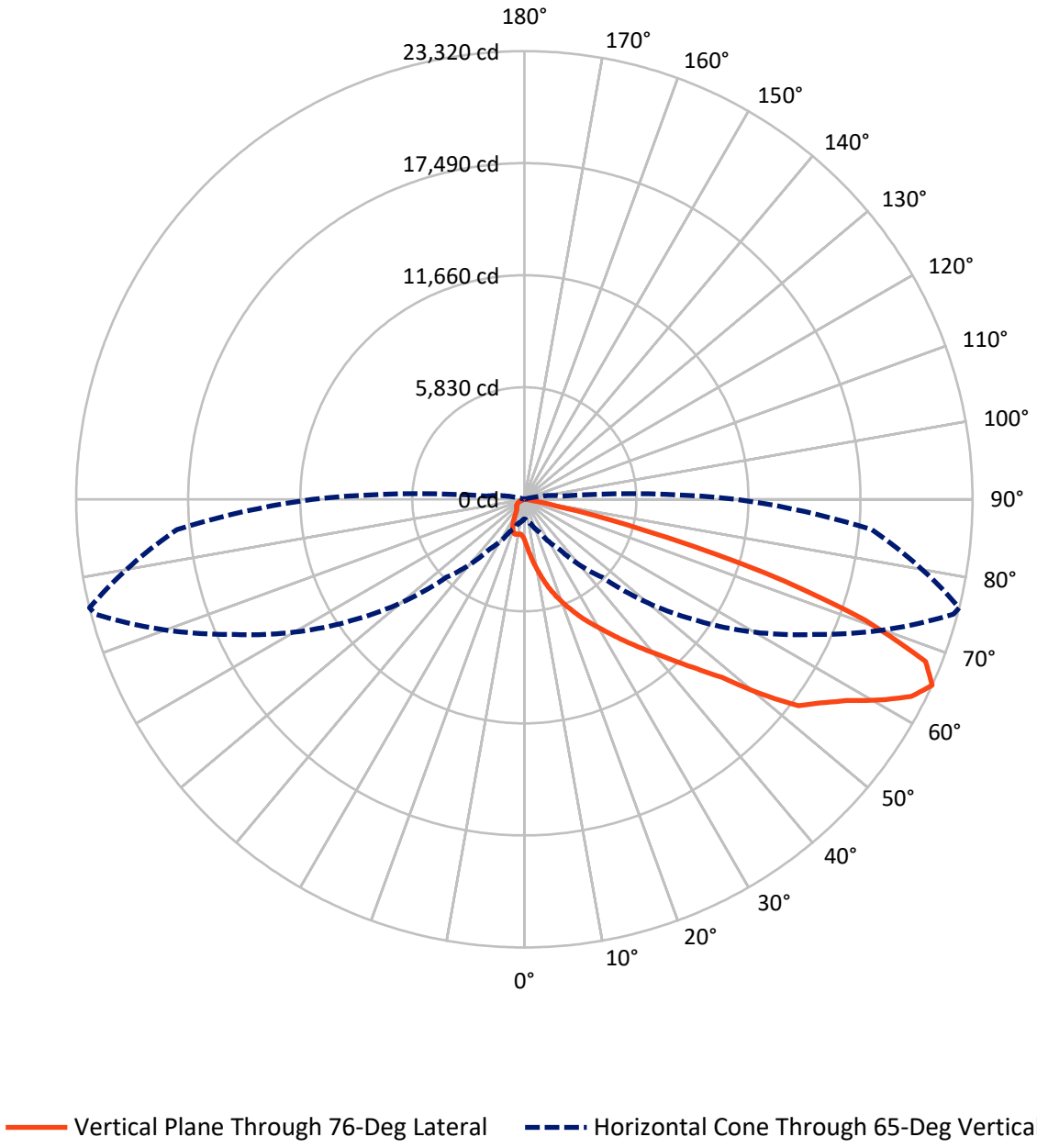
Luminous Intensity Polar Plot



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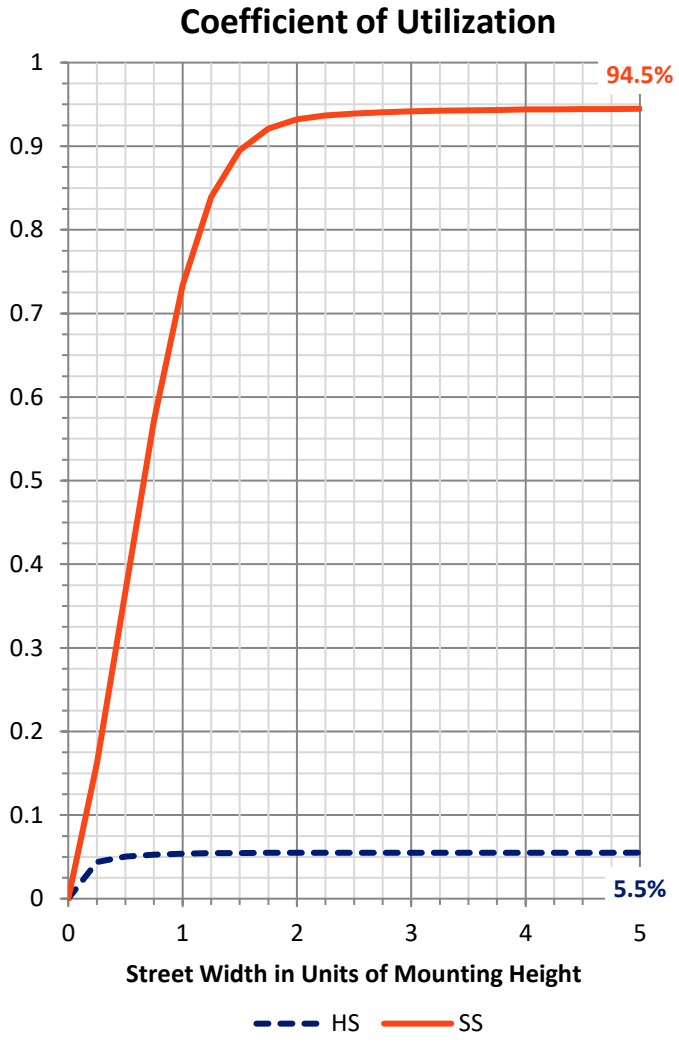
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1329.9	0.0	1329.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	22720.8	0.0	22720.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	24050.7	0.0	24050.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.1
10°-20°	983.0	4.1
20°-30°	2005.4	8.3
30°-40°	3566.6	14.8
40°-50°	5272.3	21.9
50°-60°	6036.4	25.1
60°-70°	4605.5	19.1
70°-80°	1290.1	5.4
80°-90°	32.5	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°	24050.7	100.0
0°-180°	24050.7	100.0



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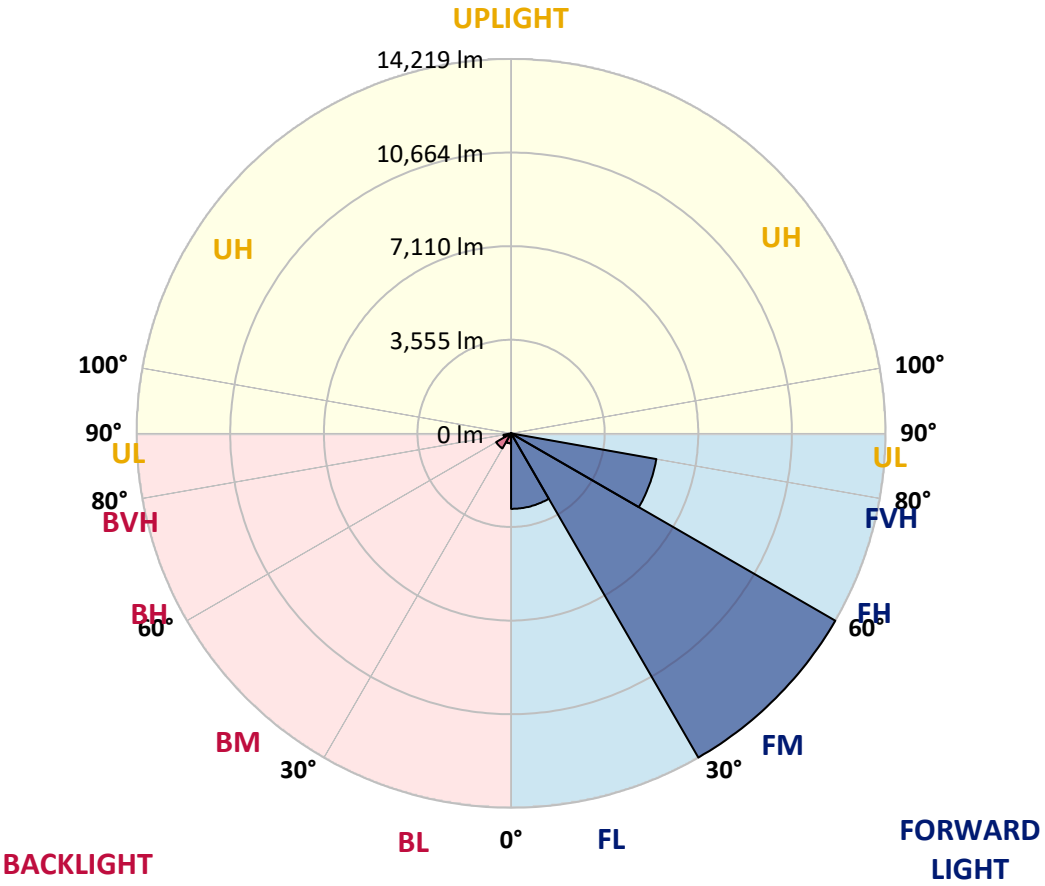
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2867.9	11.9			
FM	(30°-60°)	14219.2	59.1			
FH	(60°-80°)	5603.2	23.3			G3/7500
FVH	(80°-90°)	30.6	0.1			G1/100
BL	(0°-30°)	379.5	1.6	B1/500		
BM	(30°-60°)	656.1	2.7	B1/1000		
BH	(60°-80°)	292.3	1.2	B1/500		G1/500
BVH	(80°-90°)	1.9	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-G3
Type II Short



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REPORT NUMBER: P640969
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	*2129.4*	2129.4
2.5°	3281.7	3330.9	3292.4	3228.3	3104.3	2984.5	2830.6	2618.9	2450.1	*2428.7*	2270.5
5°	4431.9	4427.6	4344.2	4260.9	4130.5	3925.2	3615.2	3221.8	2843.4	*2811.4*	2456.5
7.5°	5116.0	5122.4	5075.4	5011.3	4883.0	4671.3	4348.5	3873.9	3320.2	*3256.0*	2710.9
10°	5691.1	5689.0	5654.8	5624.9	5509.4	5368.3	5022.0	4500.3	3833.3	*3732.8*	2995.2
12.5°	6123.0	6138.0	6155.1	6185.0	6135.8	5996.9	5669.8	5101.1	4352.8	*4241.6*	3320.2
15°	6465.1	6469.3	6533.5	6648.9	6689.5	6616.8	6319.7	5682.6	4865.9	*4769.7*	3694.3
17.5°	6567.7	6576.2	6685.3	6896.9	7110.7	7151.3	6926.8	6268.4	5370.4	*5267.8*	4057.8
20°	6783.6	6802.8	6884.1	7070.1	7339.5	7557.5	7469.9	6860.6	5875.0	*5740.3*	4429.8
22.5°	7463.5	7474.2	7446.4	7469.9	7608.8	7861.1	7914.6	7433.5	6392.4	*6249.1*	4831.7
25°	8632.9	8637.2	8442.6	8258.8	8154.0	8201.0	8318.6	7961.6	6905.5	*6764.4*	5205.8
27.5°	9847.2	9862.2	9629.2	9317.0	8942.9	8729.1	8694.9	8444.8	7422.8	*7266.8*	5575.7
30°	10991.0	10991.0	10745.2	10364.6	9864.3	9447.5	9201.6	8932.2	7976.6	*7805.5*	5954.1
32.5°	12019.4	12010.8	11696.5	11283.9	10790.1	10332.5	9815.2	9441.0	8592.3	*8402.0*	6390.2
35°	12868.1	12846.7	12489.7	12094.2	11566.1	11226.2	10649.0	9988.3	9259.3	*9069.0*	6839.2
37.5°	13509.5	13486.0	13158.9	12739.8	12250.3	12030.1	11546.9	10644.7	9962.7	*9789.5*	7337.3
40°	13858.0	13810.9	13584.3	13272.2	12861.7	12669.3	12468.3	11459.2	10790.1	*10574.1*	7925.3
42.5°	13960.6	13905.0	13755.4	13610.0	13362.0	13210.2	13426.1	12378.5	11698.7	*11512.7*	8596.6
45°	13657.0	13624.9	13612.1	13716.9	13761.8	13804.5	14336.9	13396.2	12701.4	*12560.3*	9441.0
47.5°	12925.8	12917.3	13030.6	13466.7	13941.3	14392.4	15326.7	14651.1	14001.2	*13849.4*	10621.2
50°	11574.7	11662.3	11978.7	12744.1	13693.4	14726.0	16252.4	16391.4	16104.9	*15882.6*	12160.5
52.5°	9462.4	9631.3	10341.1	11504.1	12868.1	14631.9	16680.0	17785.3	18078.2	*17847.3*	13263.6
55°	7425.0	7583.2	8216.0	9691.2	11510.5	13915.7	16699.3	18266.4	18905.6	*18691.8*	14009.8
57.5°	5530.8	5676.2	6251.3	7662.3	9663.4	12506.8	16241.7	18533.6	19886.9	*19750.1*	15187.8
60°	3615.2	3758.5	4278.0	5511.5	7495.5	10454.4	15115.1	18478.0	21223.1	*21210.3*	16635.1
62.5°	2005.4	2118.7	2494.9	3457.0	5231.5	8096.3	13344.9	17920.0	22516.5	*22597.8*	17828.1
65°	*1026.2*	*1098.9*	*1327.6*	*1900.6*	*3166.3*	*5740.3*	*11016.7*	*16641.5*	*23115.1*	*23320.4*	*18142.4*
67.5°	671.3	694.8	750.4	987.7	1695.4	3610.9	8290.8	14591.3	22272.8	*22512.3*	17088.4
70°	545.2	564.4	596.5	658.5	874.4	1917.7	5445.3	11653.8	18610.6	*18773.0*	13607.8
72.5°	399.8	425.4	487.4	528.1	630.7	1051.9	2832.7	7649.5	12780.5	*13066.9*	8551.7
75°	295.0	310.0	361.3	416.9	515.2	664.9	1083.9	4021.4	6599.7	*6433.0*	3591.7
77.5°	177.4	188.1	230.9	267.2	367.7	414.8	378.4	1485.9	2007.5	*1887.8*	868.0
80°	87.7	98.3	151.8	201.0	235.2	166.8	158.2	414.8	446.8	*446.8*	218.1
82.5°	29.9	38.5	81.2	132.6	115.4	64.1	74.8	106.9	119.7	*126.1*	64.1
85°	0.0	0.0	19.2	38.5	17.1	8.6	19.2	23.5	29.9	*32.1*	21.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.4	*8.6*	8.6
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-SA5E-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4
2.5°	2184.9	2084.5	1932.7	1795.8	1691.1	1592.7	1517.9	1458.1	1447.4	1413.2	1417.4
5°	2283.3	2101.6	1821.5	1605.6	1453.8	1351.2	1265.6	1201.5	1173.7	1145.9	1124.5
7.5°	2435.1	2172.1	1778.7	1515.8	1338.3	1180.1	1047.6	940.7	889.4	857.3	835.9
10°	2621.1	2270.5	1780.9	1462.3	1199.4	957.8	776.1	658.5	602.9	585.8	583.7
12.5°	2843.4	2394.5	1798.0	1374.7	998.4	711.9	575.1	521.7	504.5	489.6	489.6
15°	3078.6	2533.4	1798.0	1214.3	761.1	555.9	498.1	463.9	442.5	434.0	429.7
17.5°	3326.6	2663.8	1755.2	994.1	583.7	489.6	442.5	410.5	393.4	380.5	376.3
20°	3591.7	2787.8	1648.3	761.1	500.3	438.3	393.4	361.3	344.2	331.4	331.4
22.5°	3861.1	2903.3	1475.2	585.8	442.5	389.1	346.3	316.4	299.3	286.5	286.5
25°	4111.2	2980.3	1252.8	483.2	399.8	346.3	307.9	277.9	258.7	250.1	245.9
27.5°	4344.2	3029.4	1007.0	425.4	359.2	310.0	269.4	241.6	226.6	220.2	215.9
30°	4585.8	3042.3	769.6	387.0	325.0	273.7	235.2	213.8	201.0	192.4	192.4
32.5°	4821.0	3027.3	587.9	354.9	295.0	241.6	209.5	190.3	179.6	173.2	171.0
35°	5060.4	2958.9	476.8	327.1	265.1	211.7	186.0	171.0	164.6	156.1	156.1
37.5°	5321.3	2866.9	414.8	299.3	235.2	190.3	166.8	156.1	147.5	141.1	139.0
40°	5646.2	2760.0	380.5	275.8	207.4	171.0	149.7	139.0	132.6	126.1	124.0
42.5°	6031.1	2655.3	363.4	250.1	186.0	151.8	134.7	121.9	115.4	106.9	104.8
45°	6576.2	2631.8	344.2	222.3	166.8	136.8	117.6	104.8	96.2	89.8	87.7
47.5°	7452.8	2698.0	312.1	192.4	147.5	119.7	100.5	89.8	79.1	72.7	68.4
50°	8322.9	2680.9	280.1	166.8	130.4	102.6	85.5	74.8	64.1	57.7	55.6
52.5°	8797.5	2599.7	250.1	147.5	113.3	87.7	72.7	59.9	53.4	47.0	44.9
55°	9227.2	2567.6	220.2	128.3	96.2	77.0	59.9	49.2	44.9	38.5	36.3
57.5°	10069.6	2642.5	194.6	111.2	83.4	66.3	51.3	40.6	36.3	29.9	27.8
60°	10950.4	2651.0	166.8	96.2	72.7	55.6	40.6	32.1	27.8	21.4	19.2
62.5°	11410.1	2435.1	136.8	81.2	59.9	47.0	34.2	25.7	21.4	12.8	12.8
65°	*11025.2*	*1969.0*	*115.4*	*66.3*	*47.0*	*36.3*	*25.7*	*19.2*	*12.8*	*6.4*	*2.1*
67.5°	9757.4	1400.3	96.2	53.4	34.2	25.7	19.2	12.8	2.1	0.0	0.0
70°	7144.9	799.6	74.8	38.5	25.7	17.1	12.8	6.4	0.0	0.0	0.0
72.5°	4391.3	427.6	55.6	25.7	19.2	12.8	10.7	4.3	0.0	0.0	0.0
75°	1665.4	205.2	34.2	17.1	15.0	10.7	6.4	2.1	0.0	0.0	0.0
77.5°	451.1	100.5	19.2	12.8	10.7	6.4	4.3	0.0	0.0	0.0	0.0
80°	117.6	47.0	12.8	8.6	6.4	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.6	21.4	6.4	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	17.1	8.6	4.3	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	2.1	2.1	2.1	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

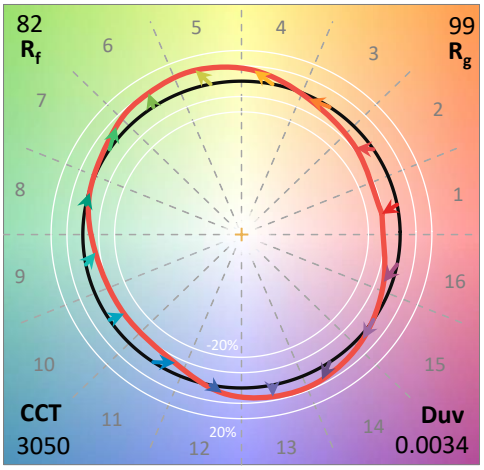
Test Information

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

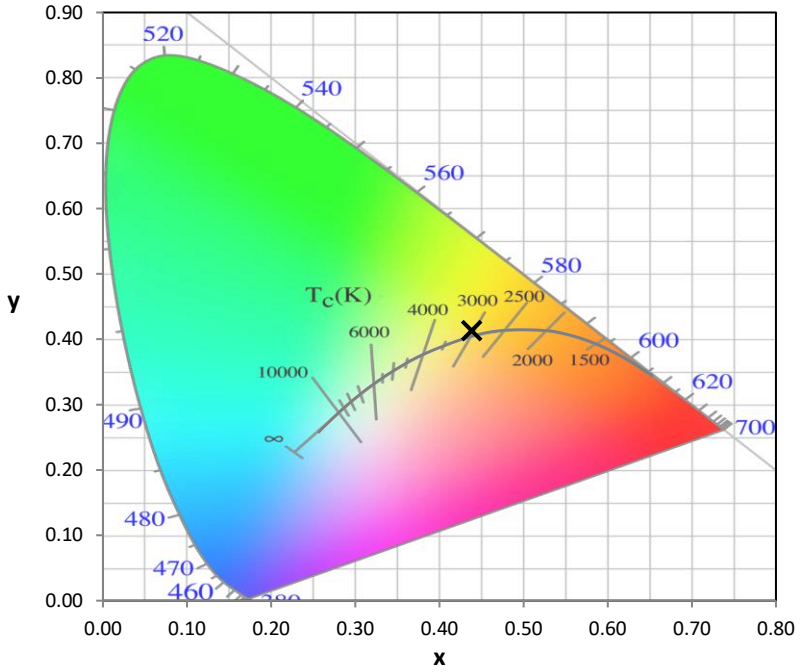
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

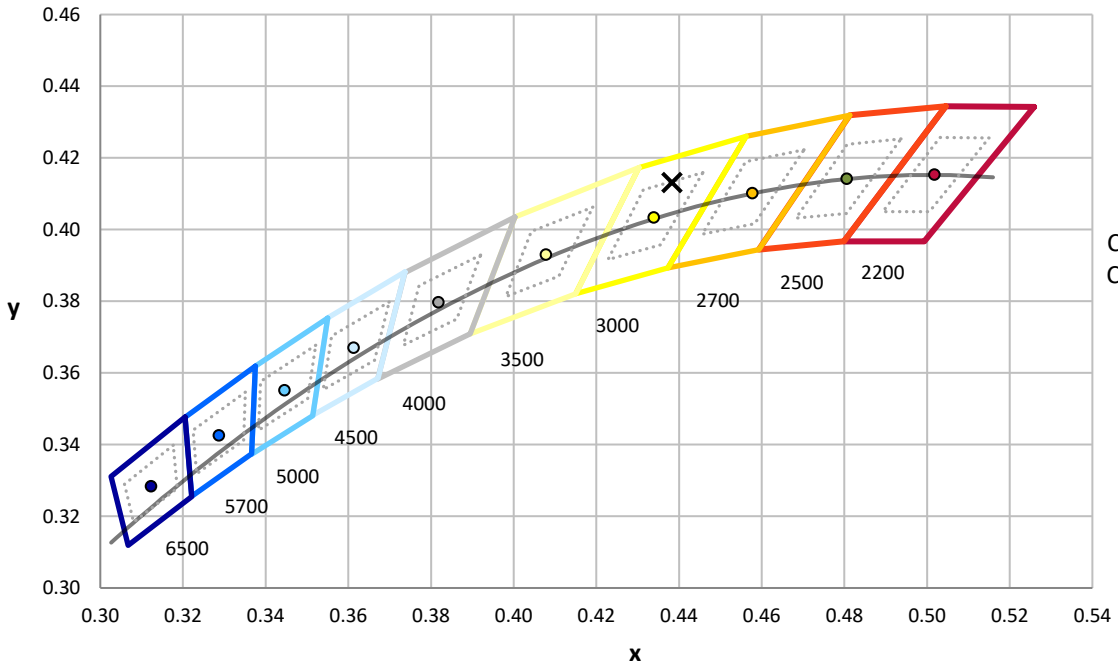
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

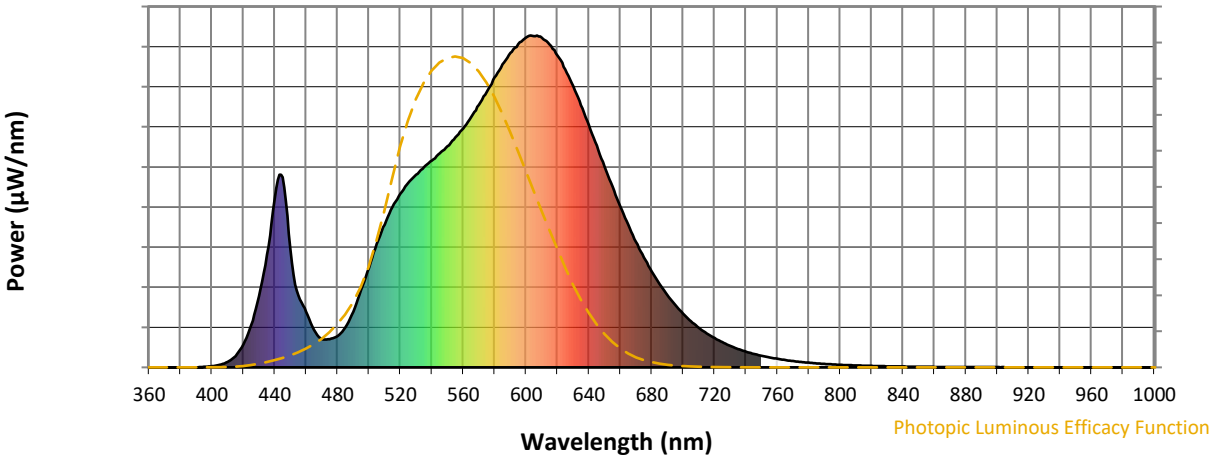


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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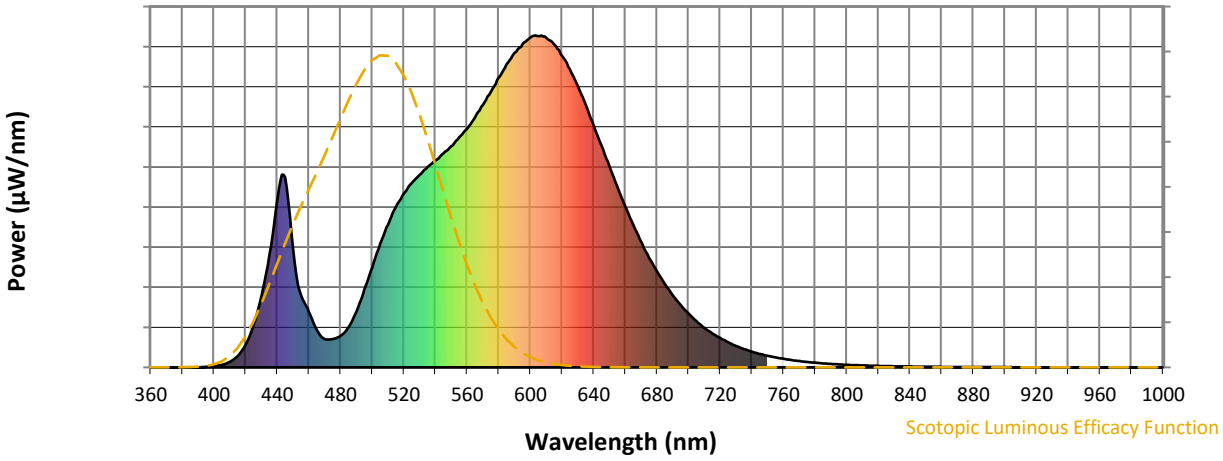
Scotopic Flux vs. Wavelength



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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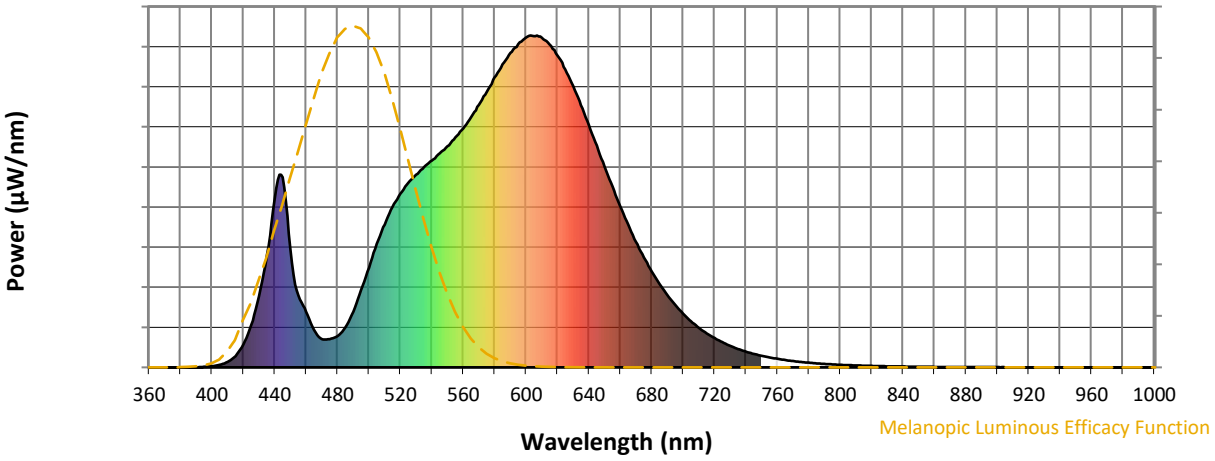
Melanopic Flux vs. Wavelength



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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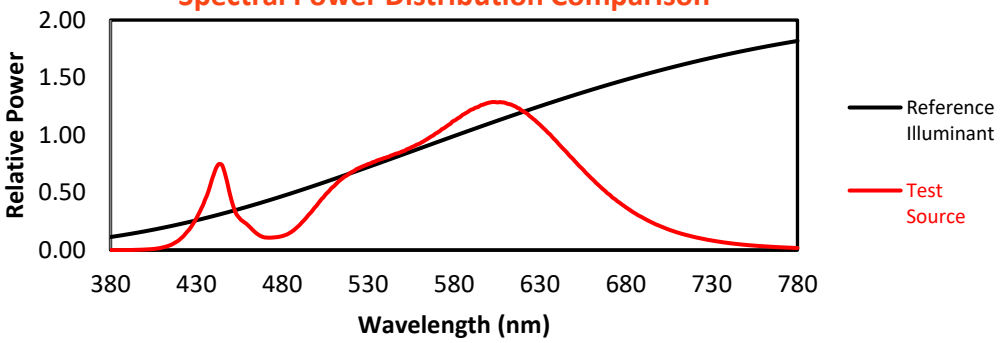
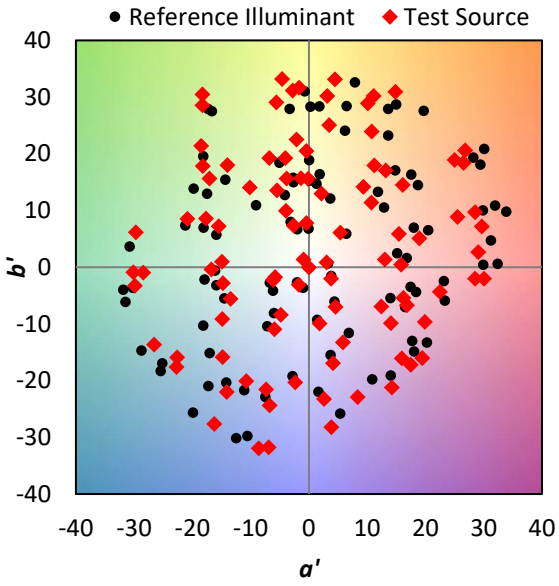
Summary

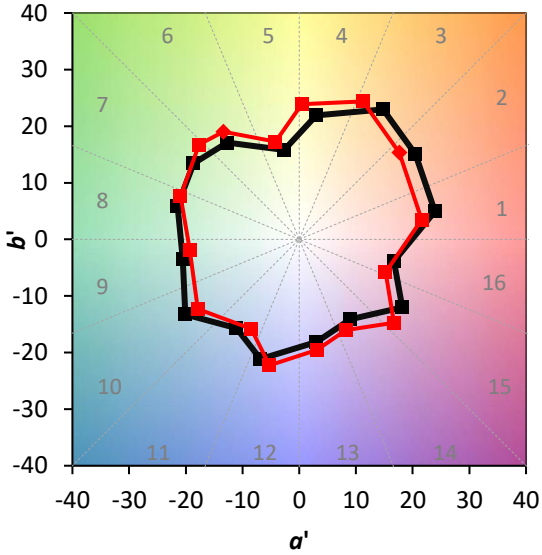
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

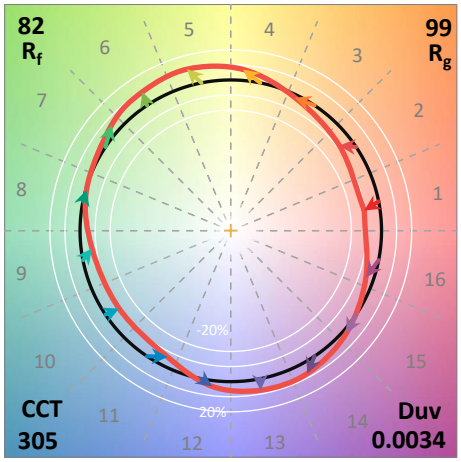
Spectral Power Distribution Comparison

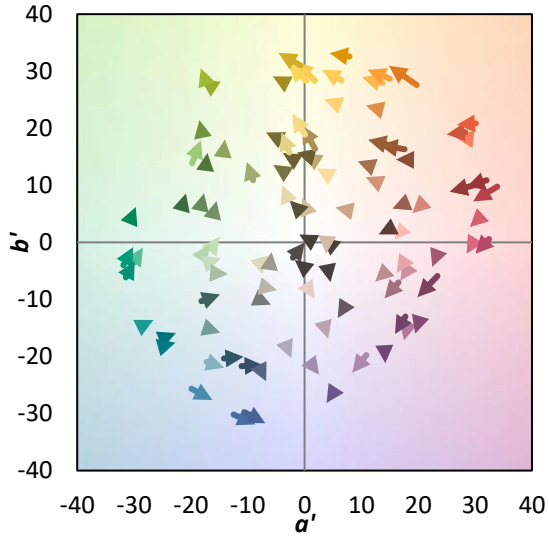


Color Vector Graphics









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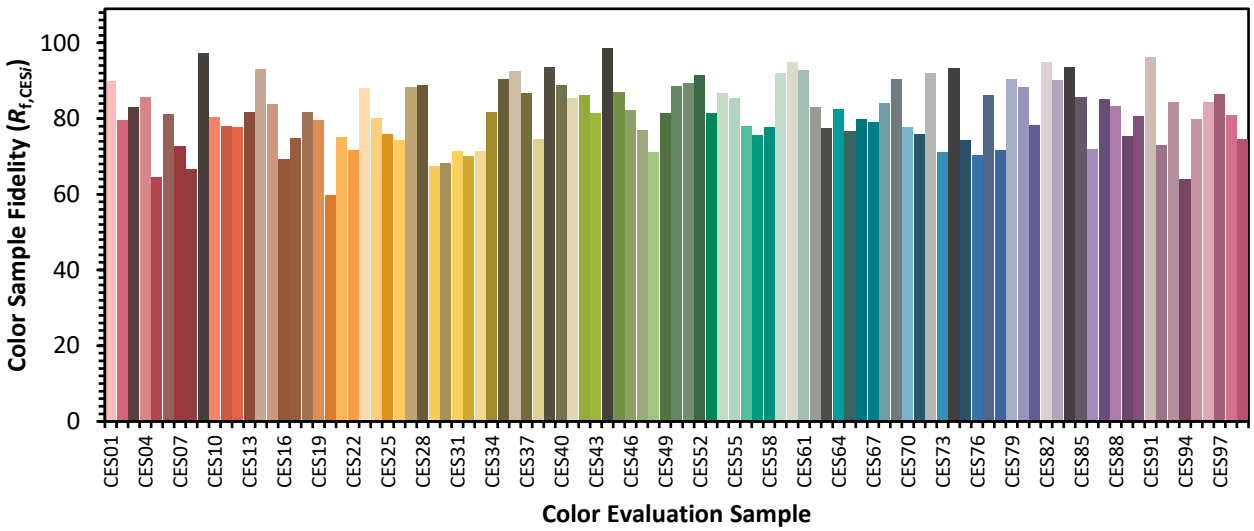
Individual Sample Fidelity Index ($R_{f,i}$)

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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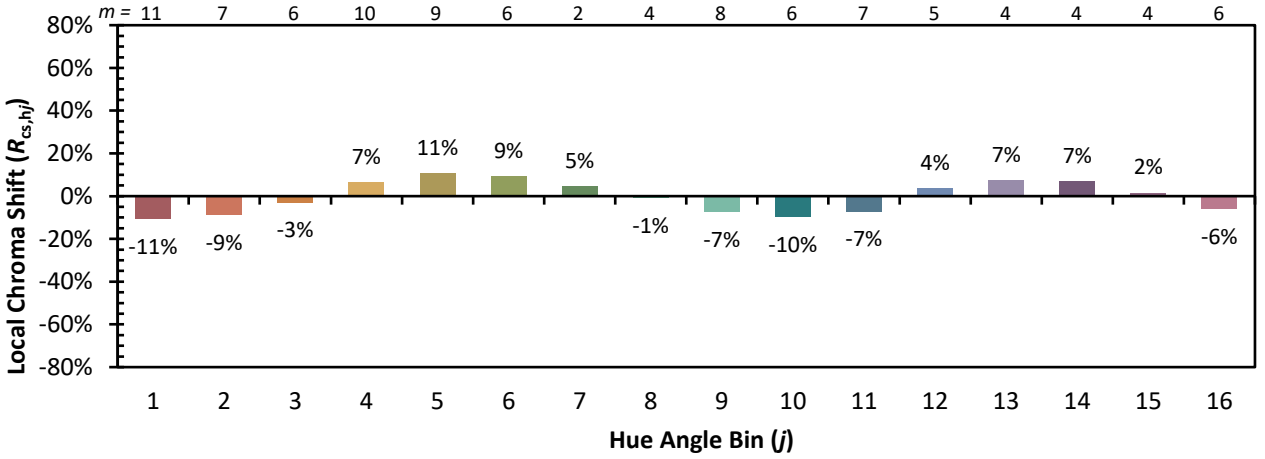
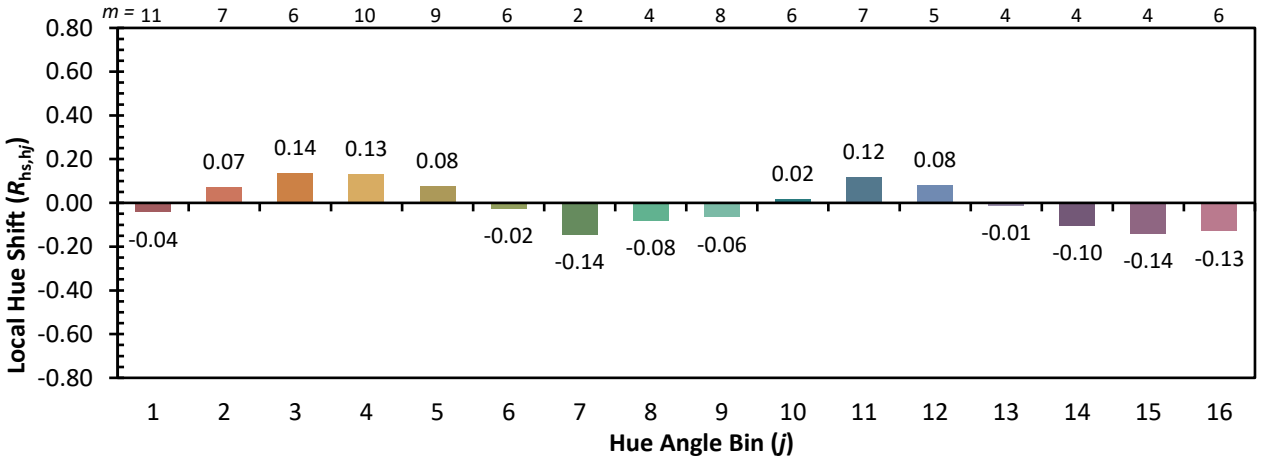
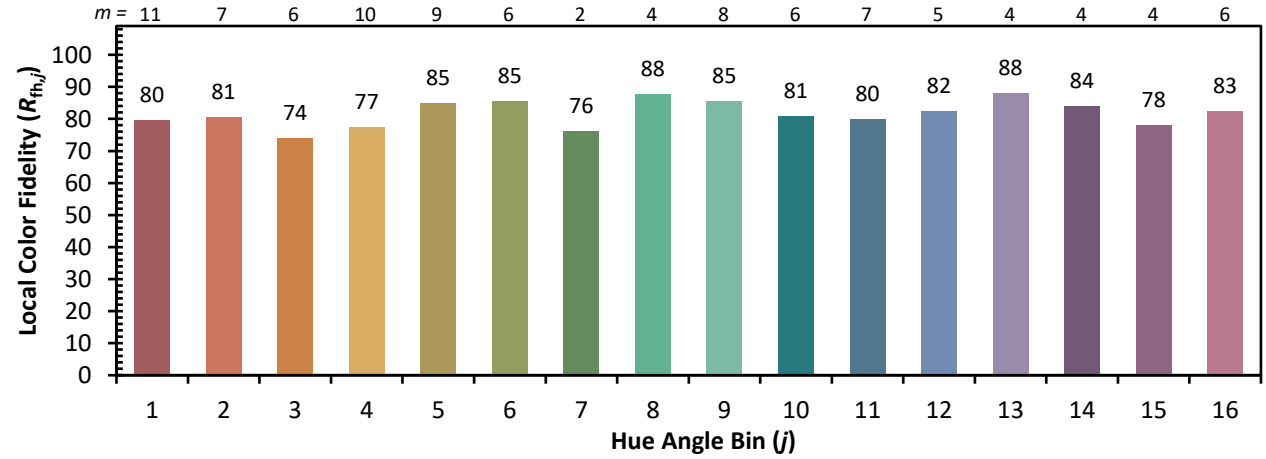
Color Rendition by Hue-Angle Bin







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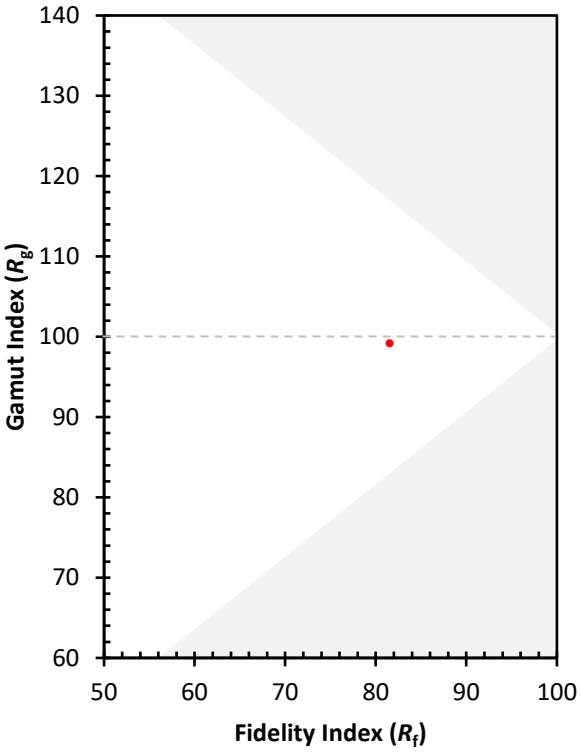
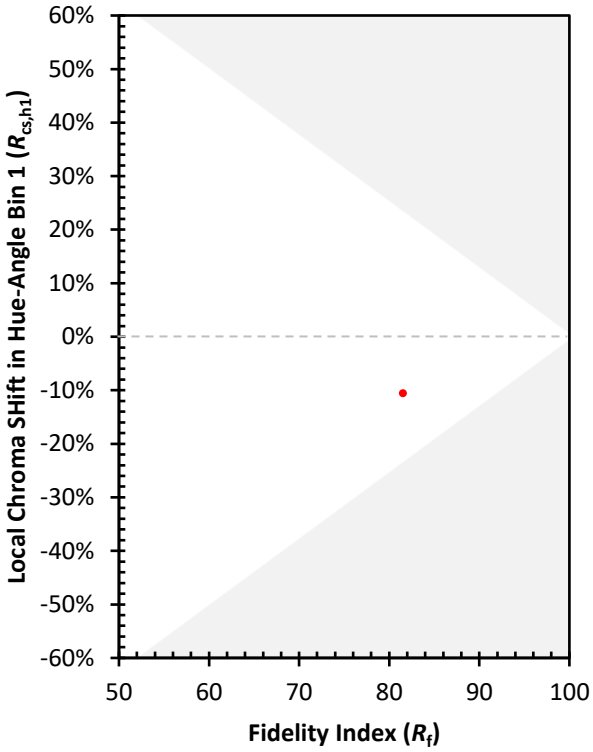
Measure Comparisons





(END OF REPORT)