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: P633548

Luminaire Tested: GWS-SA2E-830-U-T3-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:	P633548
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-T3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8509.5 lumens
Efficiency:	N/A
Efficacy:	78.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	108.2
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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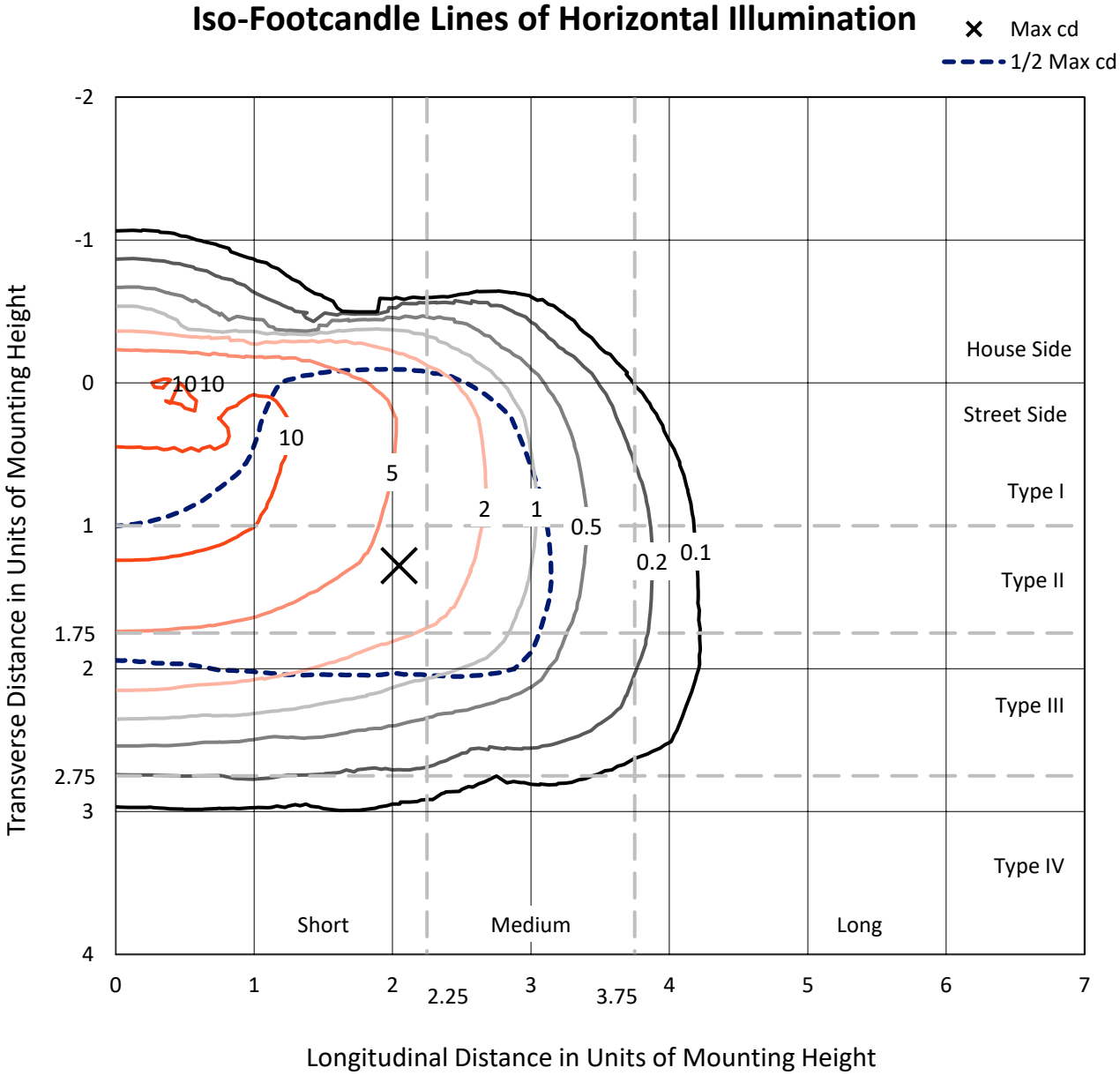
Scaled Data Report

REPORT NUMBER: P633548
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - N/A

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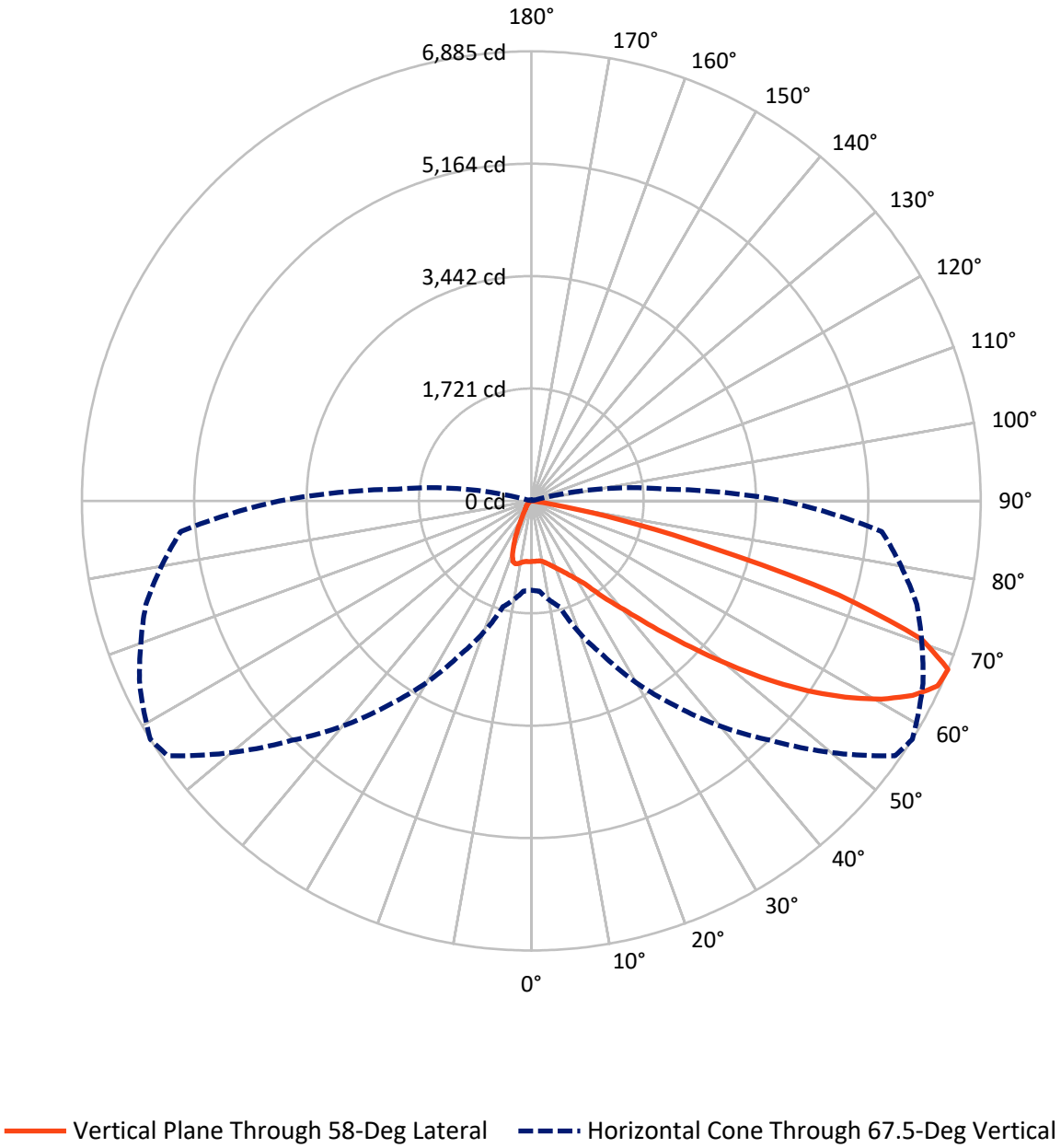
Luminous Intensity Polar Plot



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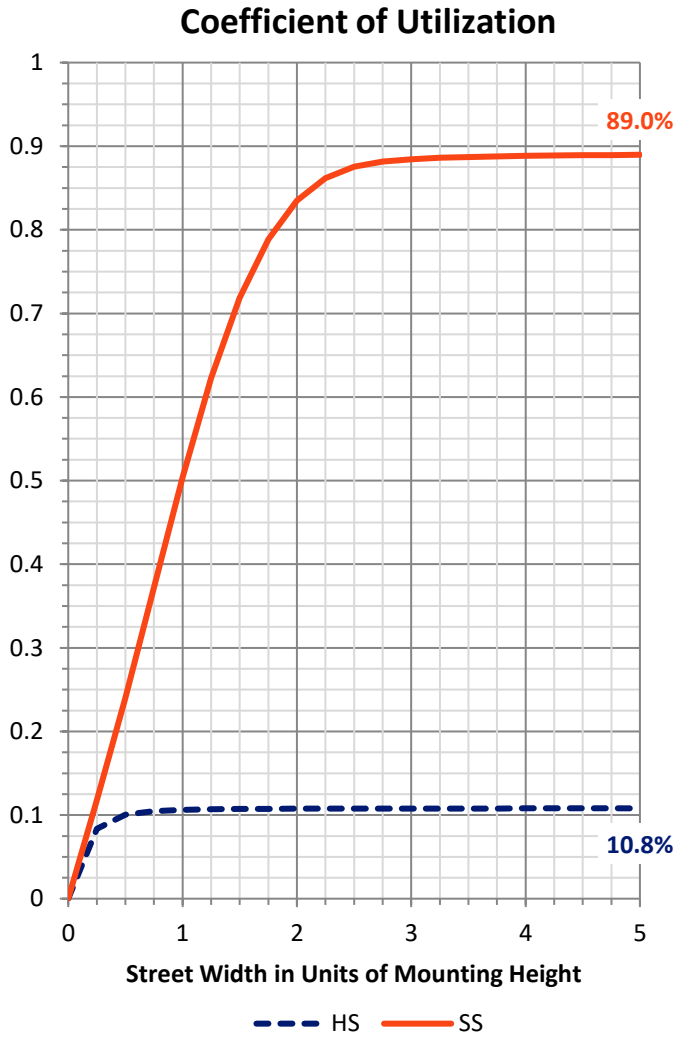
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.4	0.0	928.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	7581.1	0.0	7581.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	8509.5	0.0	8509.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	1.0
10°-20°	244.6	2.9
20°-30°	426.9	5.0
30°-40°	762.4	9.0
40°-50°	1393.5	16.4
50°-60°	2317.6	27.2
60°-70°	2517.3	29.6
70°-80°	739.1	8.7
80°-90°	21.0	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°	8509.5	100.0
0°-180°	8509.5	100.0



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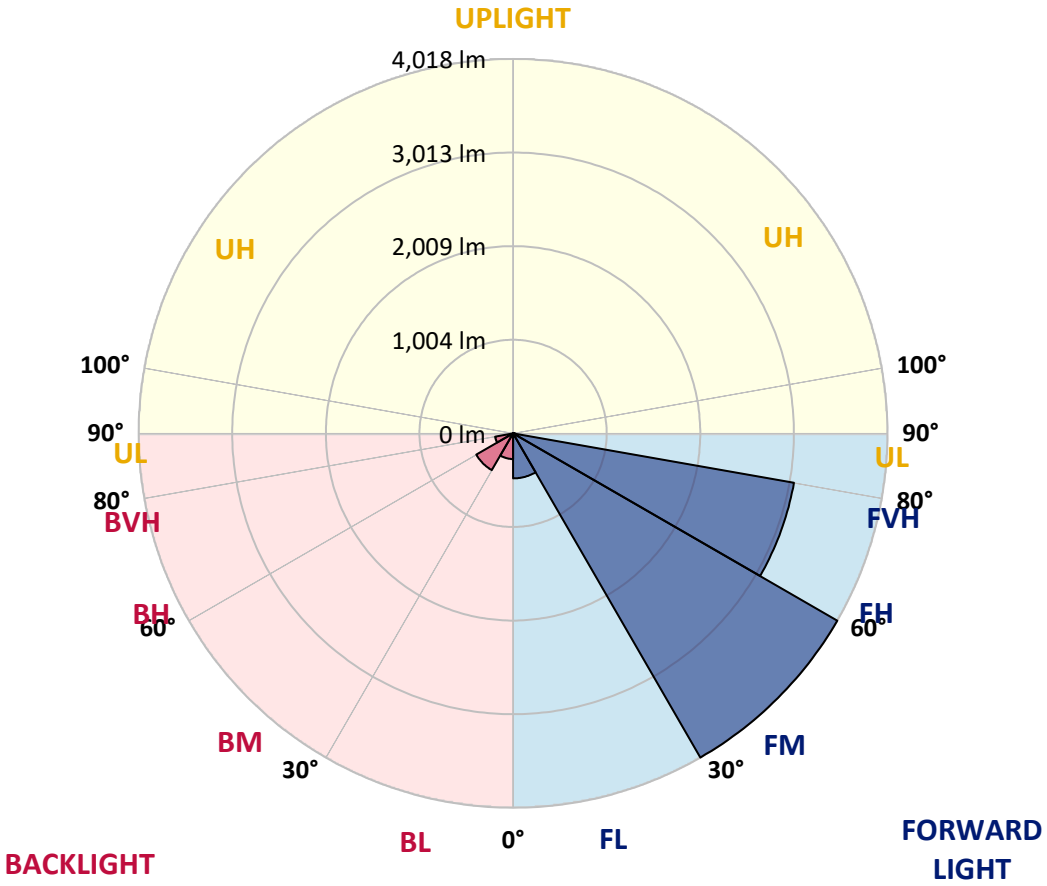
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	483.2	5.7			
FM	(30°-60°)	4017.5	47.2			
FH	(60°-80°)	3060.4	36.0			G2/5000
FVH	(80°-90°)	20.0	0.2			G1/100
BL	(0°-30°)	275.4	3.2	B1/500		
BM	(30°-60°)	456.0	5.4	B1/1000		
BH	(60°-80°)	196.0	2.3	B1/500		G1/500
BVH	(80°-90°)	1.0	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 III Short



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REPORT NUMBER: P633548
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	909.8	908.2	908.2	914.8	915.6	919.0	926.5	927.3	931.4	929.8	924.0
5°	862.5	863.3	868.3	879.9	889.9	902.4	920.6	924.8	933.9	938.9	935.6
7.5°	818.4	819.3	826.7	845.0	864.1	889.1	919.0	927.3	945.6	958.9	959.7
10°	801.8	801.0	808.5	829.2	854.2	889.1	932.3	943.1	970.5	993.8	997.9
12.5°	806.8	806.0	813.4	832.6	860.0	904.0	955.5	970.5	1005.4	1041.1	1048.6
15°	826.7	825.9	830.9	846.7	876.6	922.3	985.4	1007.9	1051.9	1095.1	1106.8
17.5°	886.6	882.4	877.4	879.1	896.5	943.9	1023.7	1051.1	1105.9	1157.4	1167.4
20°	992.9	982.1	968.8	951.4	943.1	975.5	1067.7	1099.3	1165.7	1224.7	1226.4
22.5°	1153.3	1149.1	1118.4	1067.7	1032.0	1032.8	1119.2	1155.8	1237.2	1302.0	1292.9
25°	1376.8	1374.3	1326.9	1243.9	1150.8	1119.2	1184.9	1222.2	1322.0	1390.9	1361.8
27.5°	1654.3	1636.9	1581.2	1469.0	1330.3	1231.4	1267.9	1301.2	1411.7	1476.5	1421.7
30°	1896.1	1896.9	1844.6	1727.4	1571.2	1400.1	1369.3	1398.4	1494.0	1562.1	1495.6
32.5°	2128.8	2136.2	2078.9	1973.4	1802.2	1620.2	1514.7	1519.7	1599.5	1673.4	1592.8
35°	2344.8	2350.6	2310.7	2221.0	2061.5	1850.4	1717.5	1715.0	1758.2	1833.8	1728.3
37.5°	2586.6	2592.4	2553.3	2472.8	2323.2	2113.8	1947.6	1944.3	1961.7	2023.2	1902.8
40°	2844.2	2855.0	2811.8	2743.6	2600.7	2423.7	2215.2	2185.3	2167.8	2240.1	2128.8
42.5°	3105.1	3121.7	3106.7	3038.6	2916.4	2770.2	2562.5	2516.0	2478.6	2569.1	2451.1
45°	3429.1	3449.1	3442.4	3390.1	3295.3	3176.5	2980.4	2926.4	2909.0	2992.9	2852.5
47.5°	3740.7	3762.3	3786.4	3774.8	3707.5	3652.6	3434.9	3404.2	3399.2	3488.9	3271.2
50°	3972.5	3992.5	4084.7	4151.2	4196.9	4185.2	3996.6	3950.9	3943.4	4000.8	3713.3
52.5°	4138.7	4157.8	4284.9	4492.7	4660.5	4751.9	4561.6	4551.7	4510.9	4491.0	4127.1
55°	4267.5	4294.1	4427.9	4741.9	5080.1	5282.8	5164.0	5128.3	5023.6	4908.9	4510.9
57.5°	4293.2	4304.0	4492.7	4916.4	5405.8	5734.0	5734.0	5671.7	5469.8	5311.1	4954.6
60°	4062.3	4095.5	4350.6	4902.3	5545.4	6029.0	6206.8	6163.6	5891.1	5695.8	5381.7
62.5°	3549.6	3587.0	3897.7	4564.1	5405.8	6089.6	6564.9	6558.3	6250.8	6014.0	5735.7
65°	2722.0	2749.4	3020.3	3818.0	4815.9	5856.2	6820.8	6839.1	6535.0	6224.3	5857.8
67.5°	1367.7	1386.8	1679.2	2608.2	3817.1	5184.0	6803.4	6884.8	6621.4	6112.9	5391.7
70°	477.8	496.9	634.8	1119.2	2323.2	3958.4	6215.1	6348.1	6113.7	5218.0	3977.5
72.5°	163.7	172.8	263.4	415.4	904.0	2346.5	4726.1	4926.4	4506.8	3503.1	2285.8
75°	93.1	98.9	141.3	225.2	378.9	771.9	2681.3	2804.3	2627.3	1909.4	940.6
77.5°	63.1	68.1	88.1	128.0	209.4	248.4	1093.5	1376.8	1200.6	623.2	240.1
80°	37.4	40.7	54.0	75.6	107.2	96.4	234.3	311.6	401.3	186.1	72.3
82.5°	17.4	19.9	34.9	49.9	54.0	40.7	69.0	83.9	113.0	91.4	29.9
85°	0.0	0.0	11.6	20.8	19.9	11.6	19.1	20.8	30.7	45.7	11.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5	5.0	9.1	5.0
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: P633548
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	930.6	924.8	931.4	928.1	931.4	930.6	924.0	919.8	919.8	912.3	909.8
5°	942.2	936.4	938.1	930.6	928.9	924.8	916.5	913.2	913.2	905.7	903.2
7.5°	968.0	958.9	957.2	942.2	935.6	924.0	909.0	903.2	902.4	894.9	892.4
10°	1008.7	997.9	990.4	971.3	952.2	928.9	897.4	870.8	855.8	835.9	834.2
12.5°	1058.6	1045.3	1033.6	1004.6	973.0	920.6	827.6	730.4	670.5	623.2	626.5
15°	1114.2	1101.8	1083.5	1039.5	974.6	838.4	643.9	494.4	421.3	382.2	380.6
17.5°	1174.9	1156.6	1126.7	1066.9	922.3	640.6	418.8	295.8	257.6	244.3	241.0
20°	1231.4	1209.0	1171.6	1072.7	771.1	433.7	261.7	229.3	222.7	218.5	218.5
22.5°	1291.2	1263.0	1207.3	1027.8	573.3	277.5	222.7	215.2	210.2	204.4	203.6
25°	1351.9	1315.3	1239.7	910.7	375.6	218.5	208.6	200.2	191.1	182.0	179.5
27.5°	1403.4	1356.0	1264.6	736.2	241.0	196.9	190.3	176.2	163.7	153.7	152.1
30°	1464.9	1404.2	1275.4	538.4	189.4	173.7	163.7	148.7	133.8	123.8	120.5
32.5°	1547.1	1480.7	1258.8	350.6	167.8	152.9	137.1	119.6	104.7	93.9	92.2
35°	1675.1	1596.2	1182.4	223.5	152.1	132.1	113.0	94.7	82.3	73.9	72.3
37.5°	1831.3	1758.2	1056.9	167.8	136.3	114.7	92.2	74.8	65.6	59.8	58.2
40°	2063.1	1960.9	901.5	147.1	120.5	97.2	75.6	61.5	54.8	49.9	48.2
42.5°	2363.9	2200.2	722.9	133.8	105.5	81.4	61.5	50.7	44.9	41.5	40.7
45°	2715.4	2433.7	534.3	120.5	91.4	67.3	50.7	41.5	37.4	34.9	34.1
47.5°	3075.2	2638.1	368.9	106.4	78.1	55.7	42.4	35.7	32.4	29.1	28.3
50°	3459.0	2810.9	251.8	92.2	66.5	45.7	36.6	32.4	28.3	25.8	24.9
52.5°	3740.7	2874.9	175.3	79.8	56.5	39.1	32.4	29.1	25.8	22.4	21.6
55°	4000.8	2873.2	132.9	67.3	48.2	34.1	29.1	25.8	22.4	19.9	19.1
57.5°	4260.0	2850.8	104.7	57.3	41.5	30.7	25.8	22.4	20.8	17.4	16.6
60°	4427.9	2766.1	81.4	48.2	35.7	26.6	22.4	19.9	17.4	15.0	14.1
62.5°	4516.8	2648.1	62.3	38.2	29.1	23.3	19.9	17.4	15.0	12.5	11.6
65°	4396.3	2438.7	49.0	29.9	22.4	19.9	16.6	14.1	11.6	9.1	8.3
67.5°	*3862.0*	*2056.5*	*38.2*	*24.1*	*17.4*	*15.0*	*14.1*	*11.6*	*8.3*	*6.6*	*5.8*
70°	2729.5	1408.4	29.9	18.3	13.3	11.6	10.8	9.1	6.6	5.0	4.2
72.5°	1498.1	710.4	21.6	13.3	10.0	9.1	8.3	7.5	5.8	4.2	4.2
75°	576.6	195.3	15.8	9.1	6.6	6.6	5.8	5.8	5.0	3.3	3.3
77.5°	150.4	58.2	10.0	5.8	4.2	4.2	4.2	3.3	3.3	2.5	2.5
80°	48.2	19.1	5.8	4.2	3.3	2.5	2.5	1.7	2.5	1.7	1.7
82.5°	15.8	6.6	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.0	0.0
85°	5.8	3.3	2.5	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0
87.5°	3.3	1.7	1.7	1.7	1.7	0.8	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

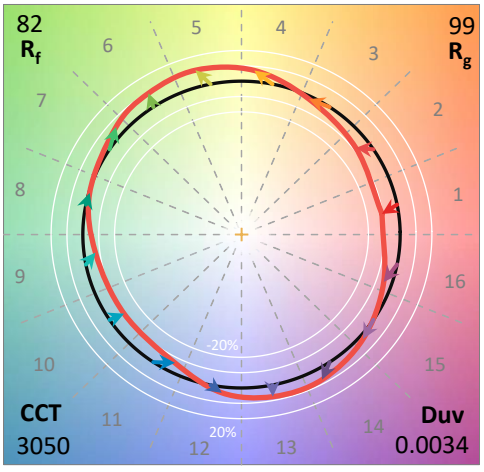
Test Information

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

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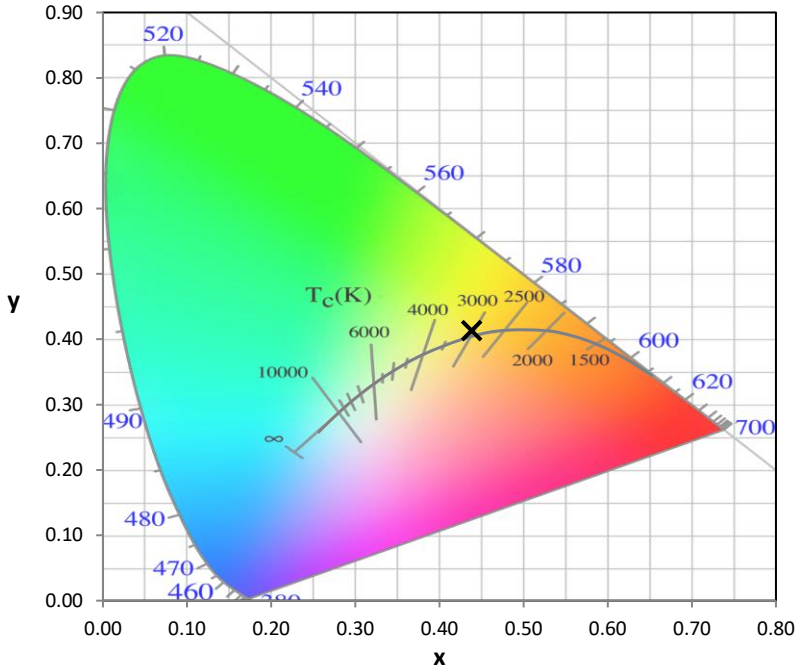
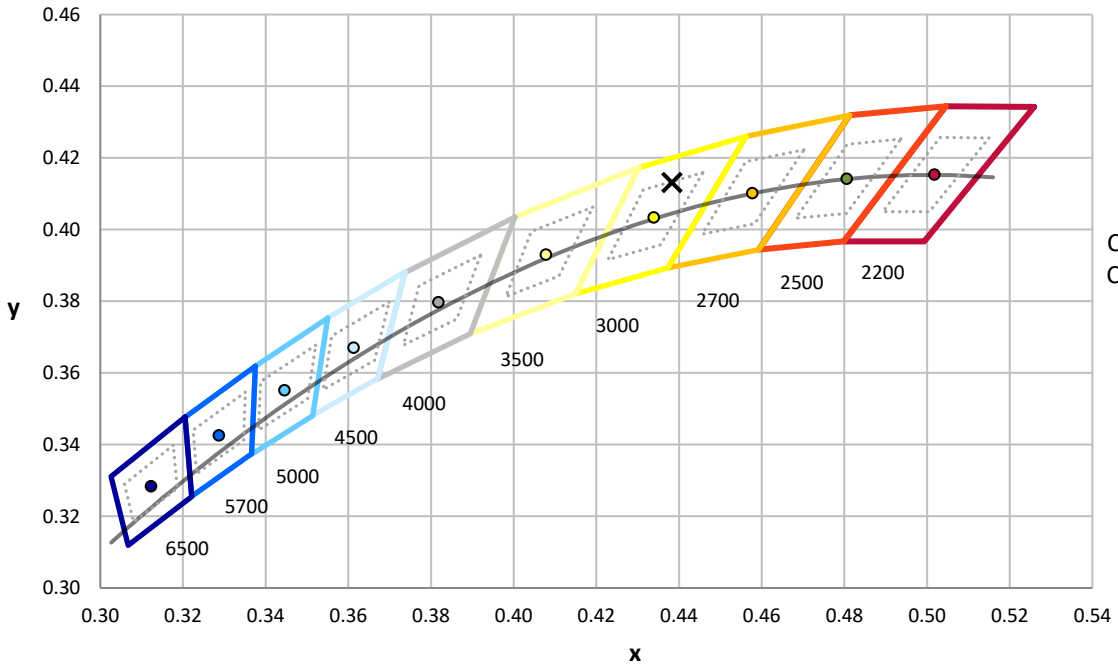
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

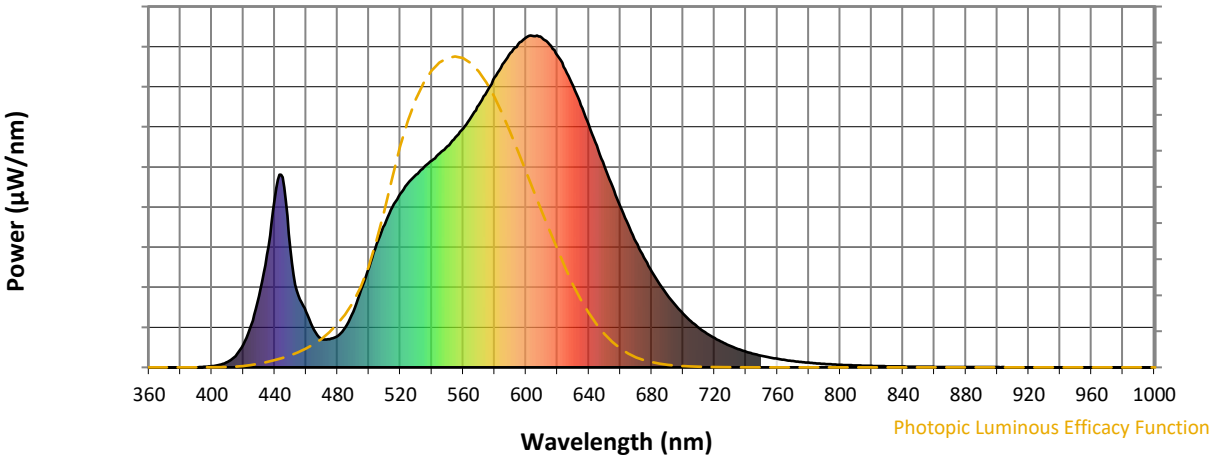


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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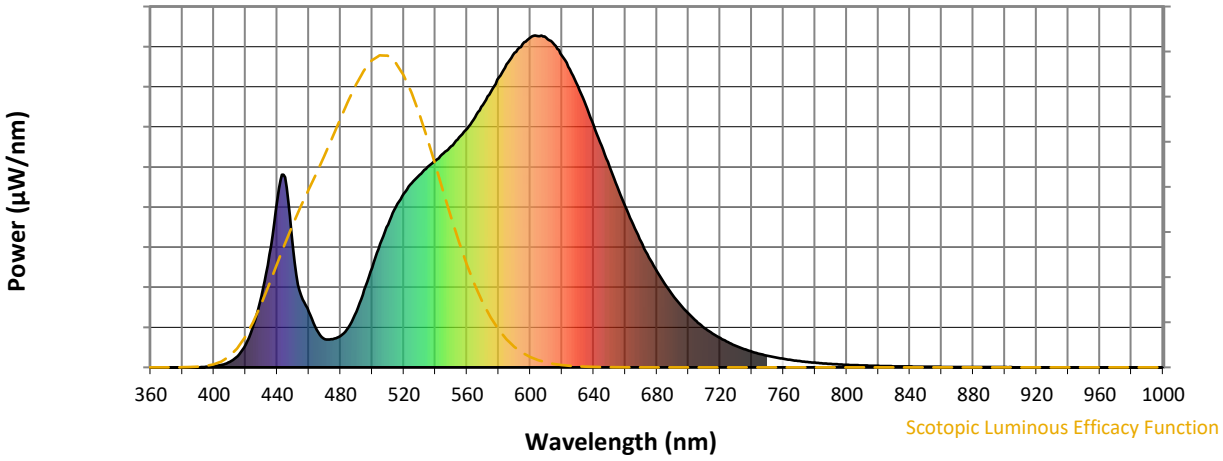
Scotopic Flux vs. Wavelength



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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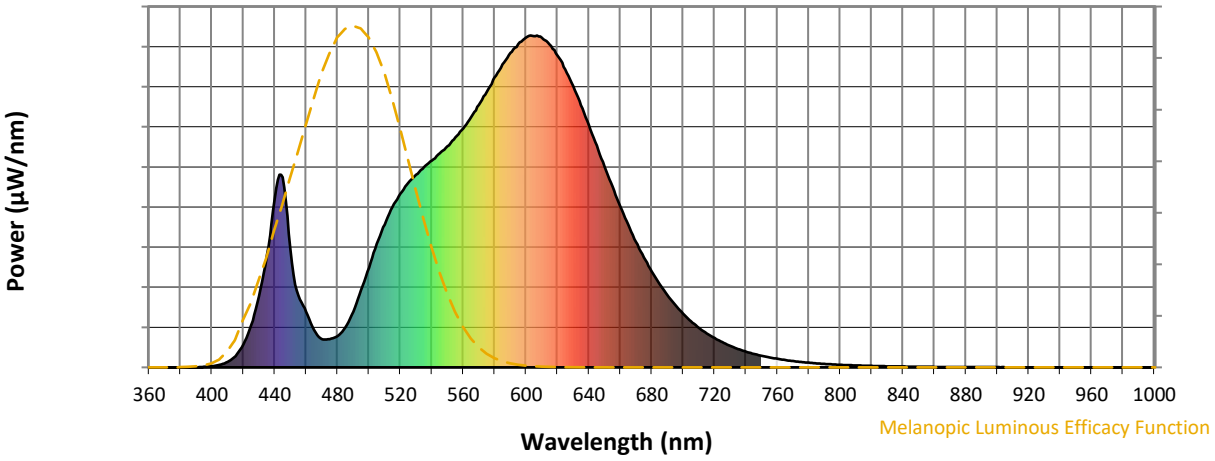
Melanopic Flux vs. Wavelength



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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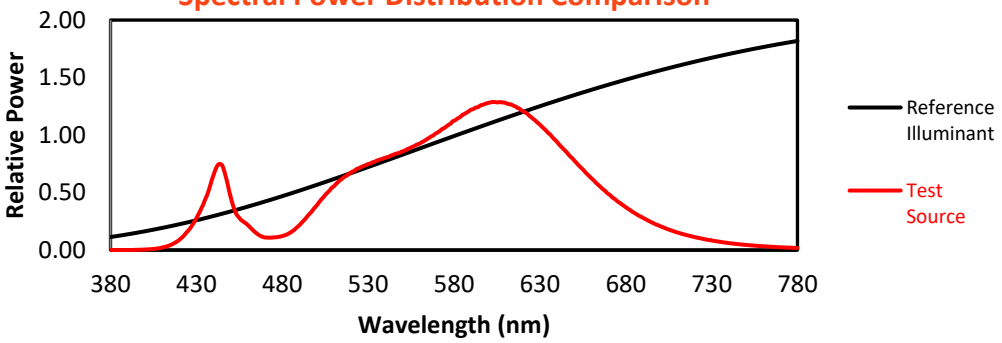
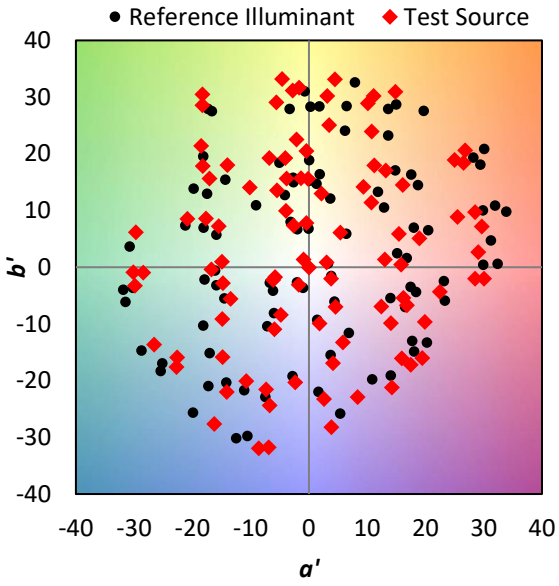
Summary

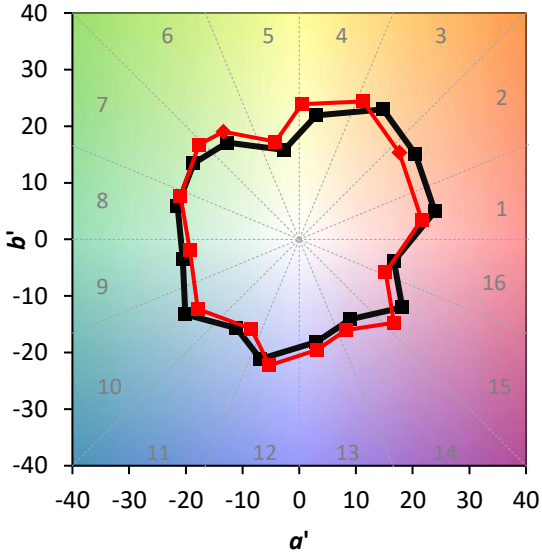
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

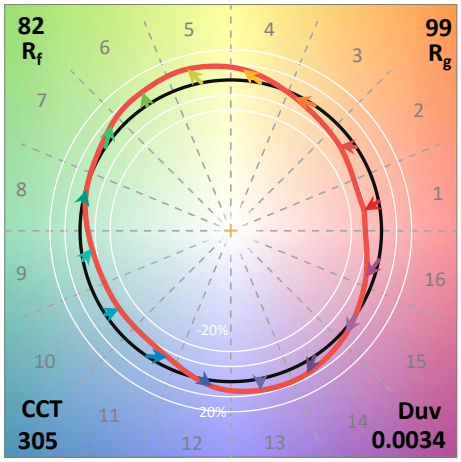
Spectral Power Distribution Comparison

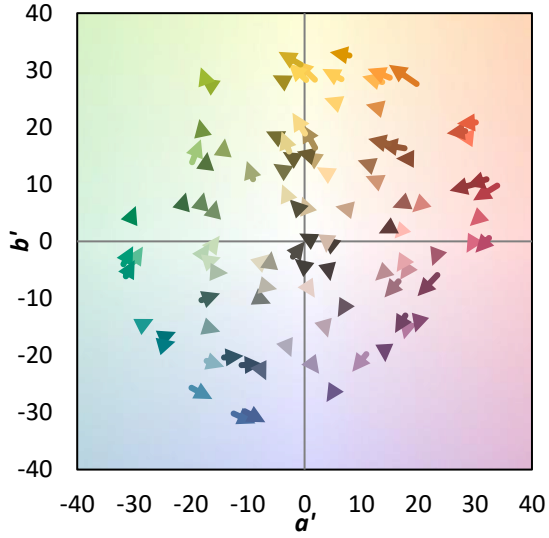


Color Vector Graphics









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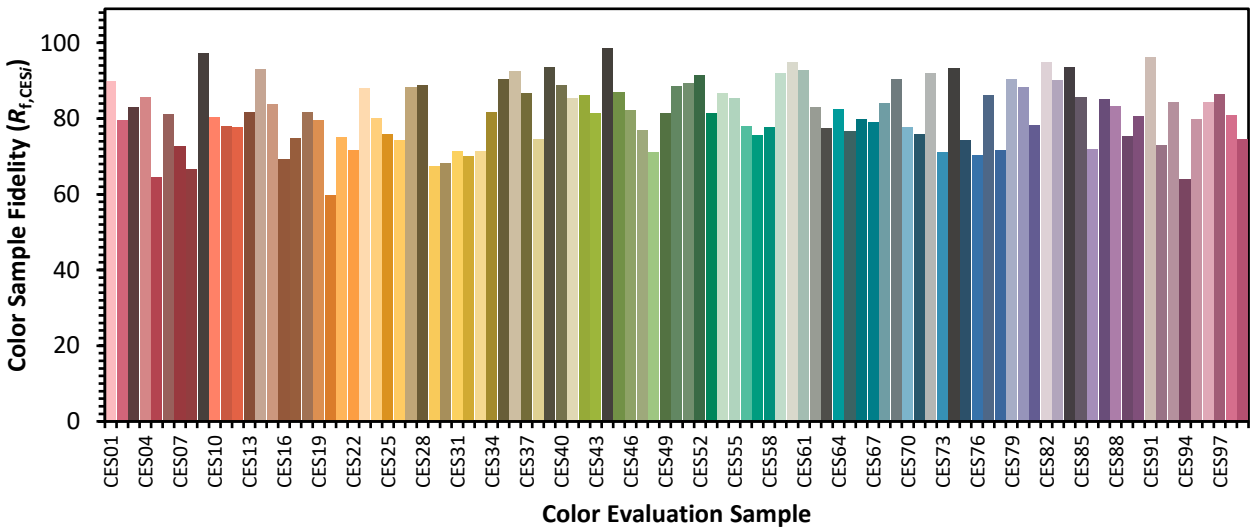
Individual Sample Fidelity Index ($R_{f,i}$)

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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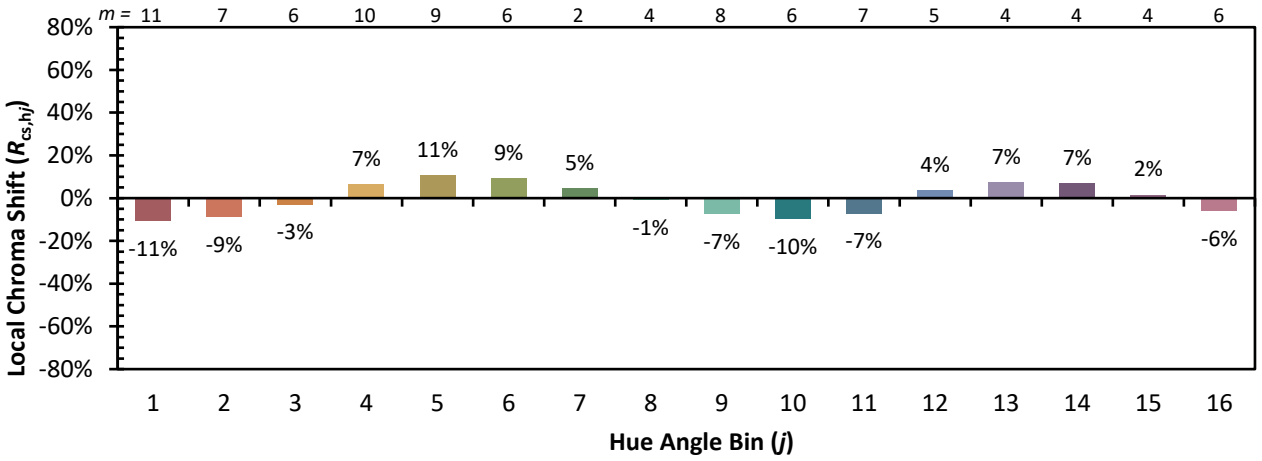
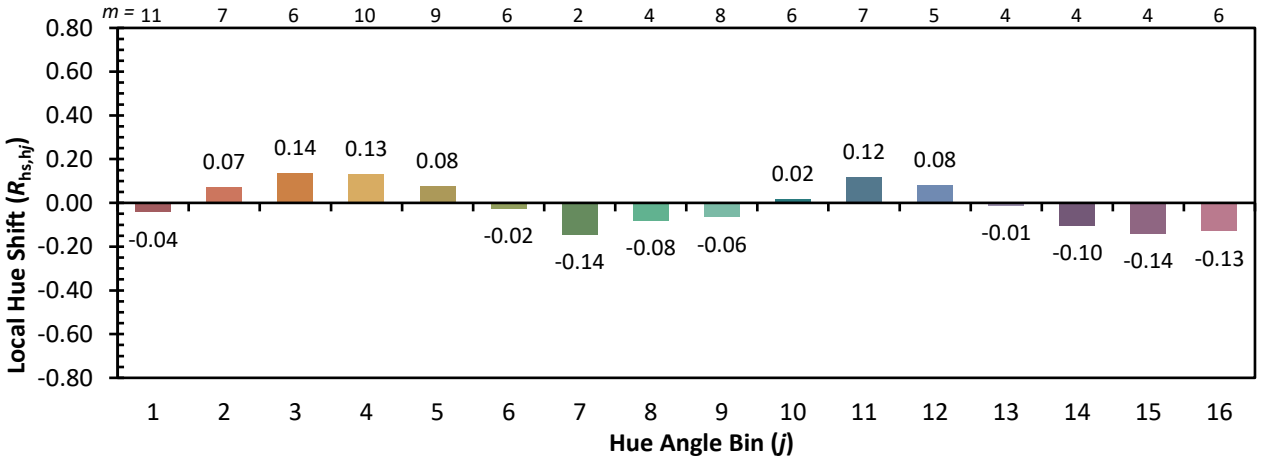
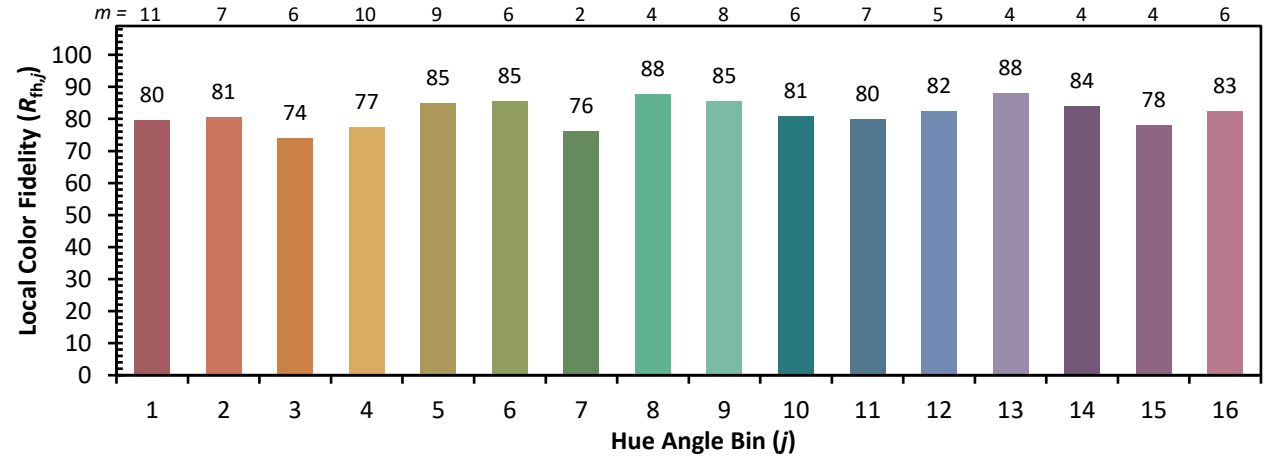
Color Rendition by Hue-Angle Bin







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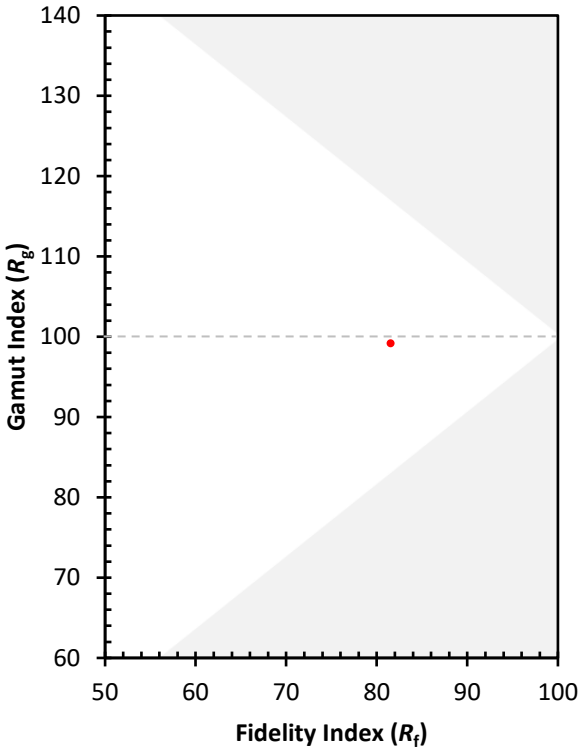
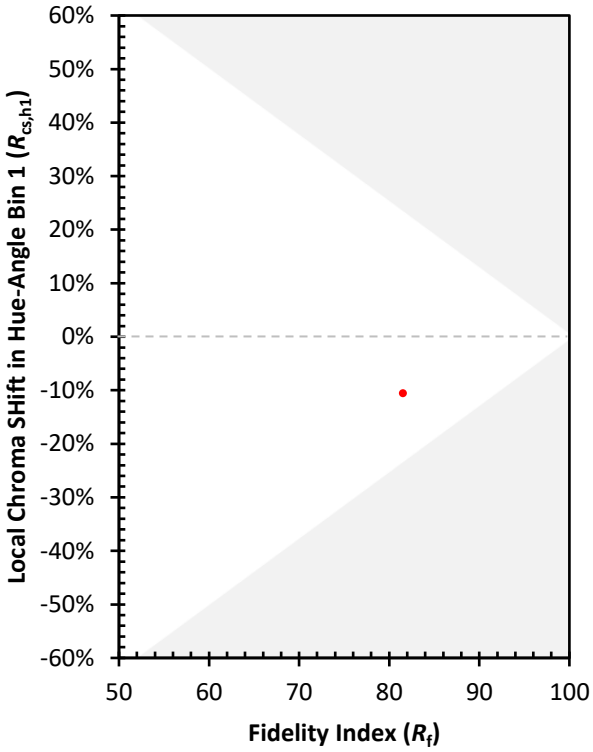
Measure Comparisons





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