Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P438791

Luminaire Tested: **ISW-SA1E-830-U-SL4-HSS**

Issue Date: 12/10/2020

Report Generated By 670245982

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P438791
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-19)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISW-SA1E-830-U-SL4-HSS
Description:	IMPACT ELITE LED WEDGE LUMINAIRE
	(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4603 lumens
Efficiency:	N/A
Efficacy:	79.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	58.2
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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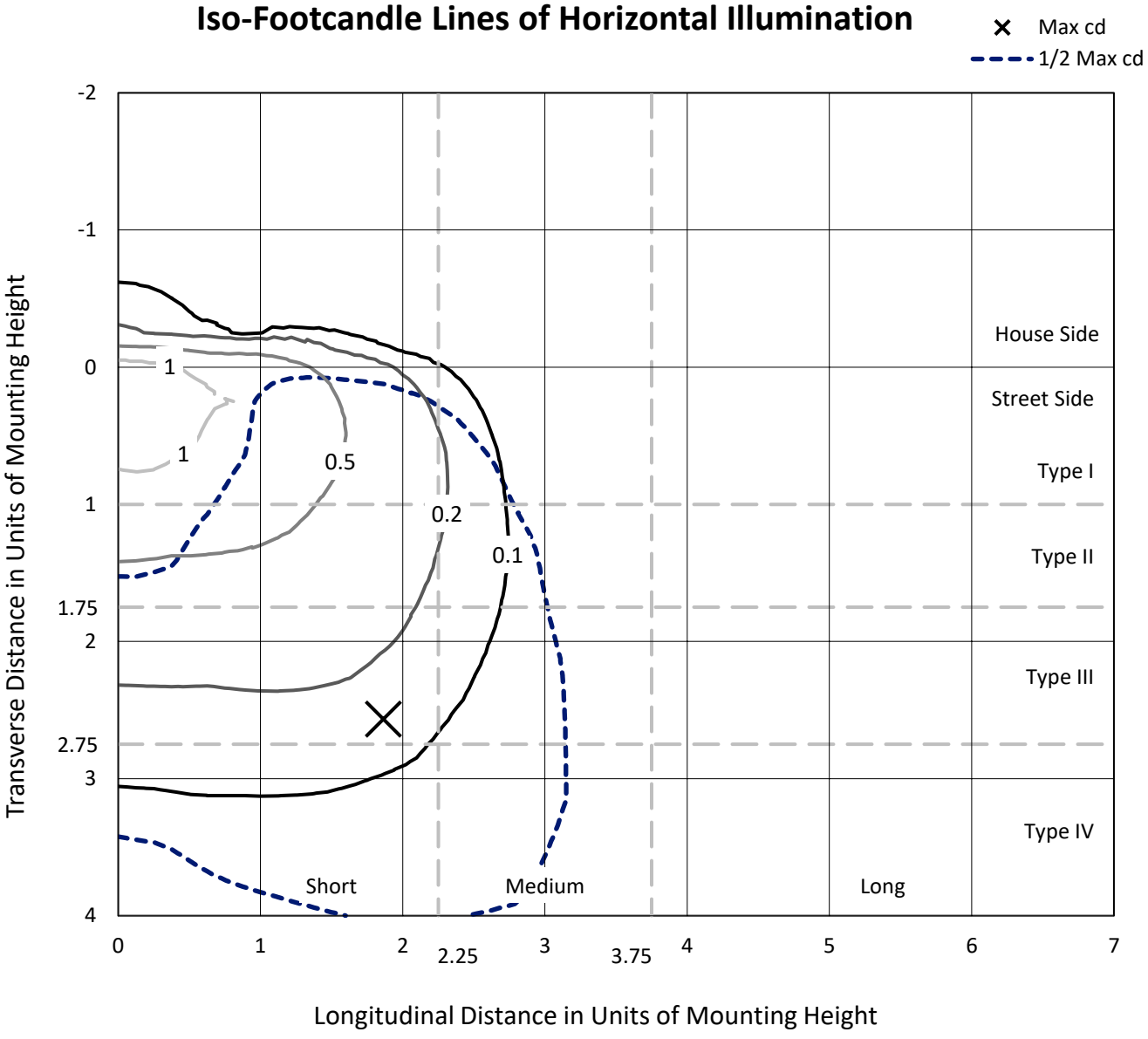
REPORT NUMBER: P438791
CATALOG NUMBER: ISW-SA1E-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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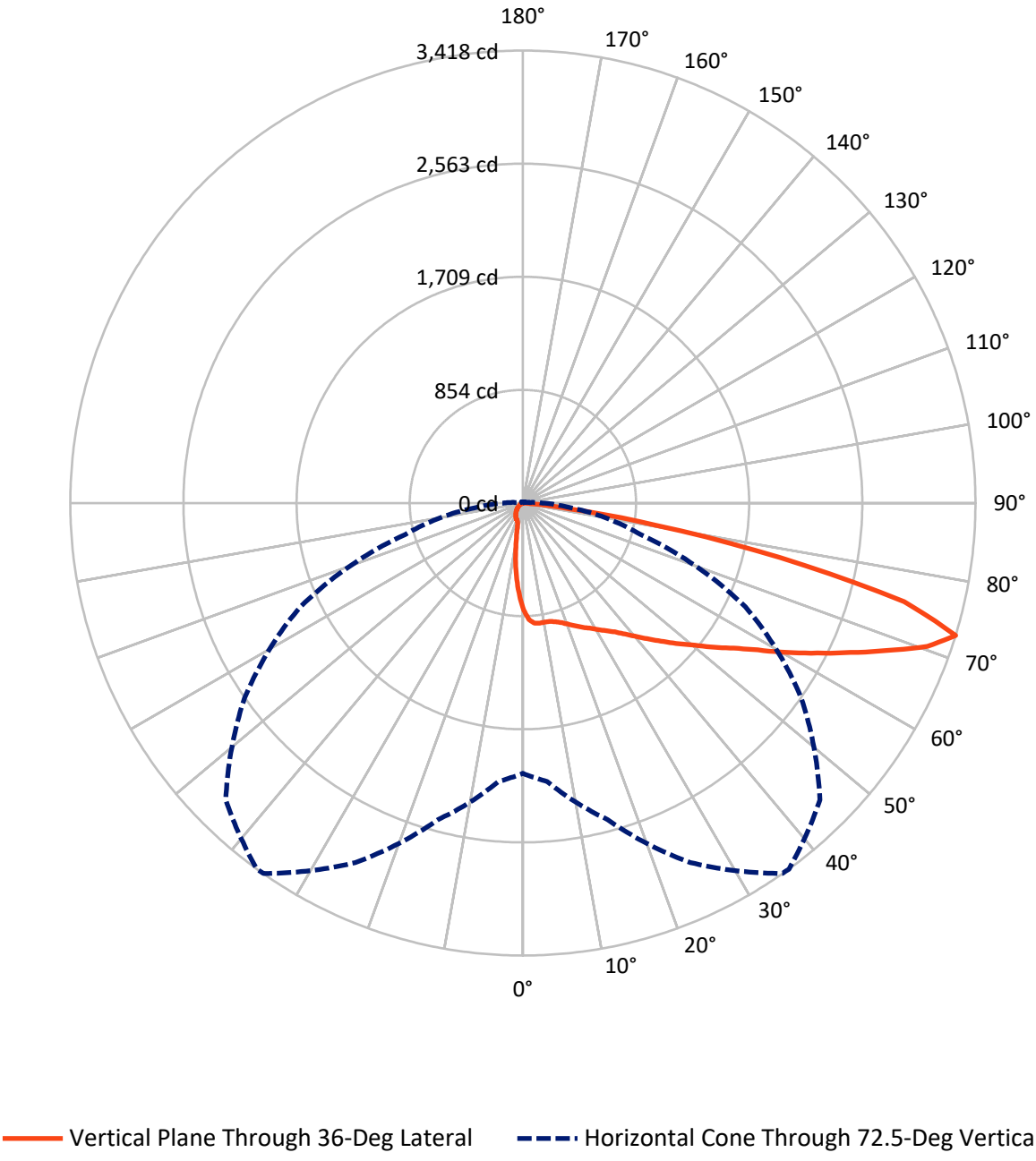
Luminous Intensity Polar Plot



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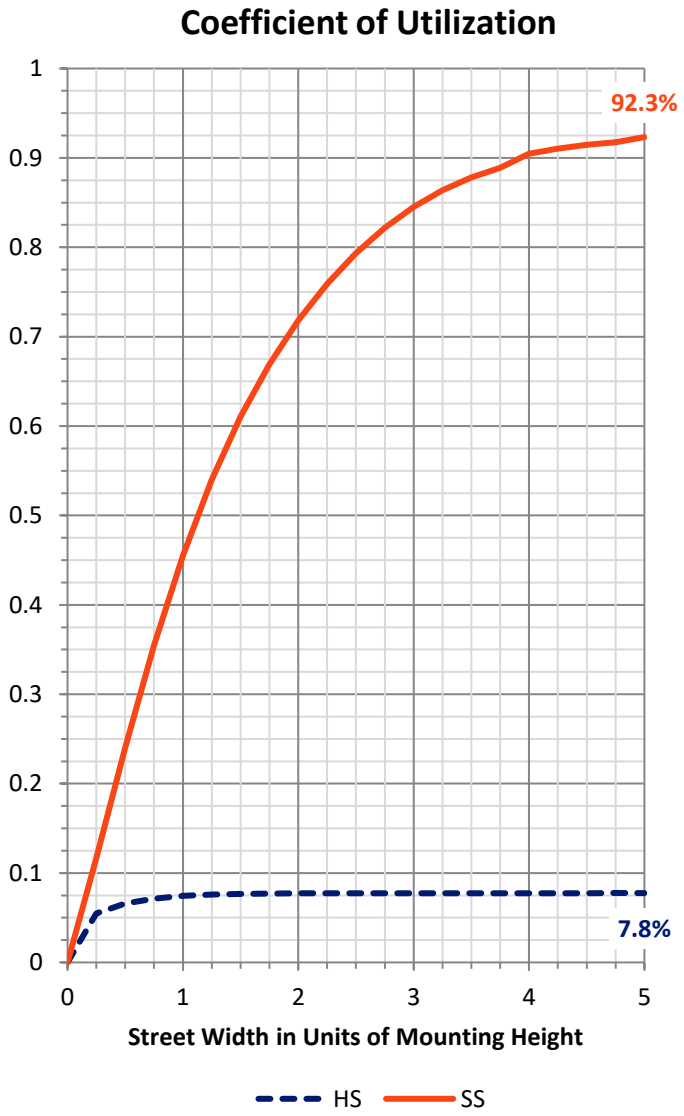
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.1	0.0	359.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4243.9	0.0	4243.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	4603.0	0.0	4603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.5
10°-20°	173.3	3.8
20°-30°	283.1	6.1
30°-40°	430.3	9.3
40°-50°	658.1	14.3
50°-60°	935.7	20.3
60°-70°	1186.6	25.8
70°-80°	812.5	17.7
80°-90°	54.4	1.2
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°	4603.0	100.0
0°-180°	4603.0	100.0



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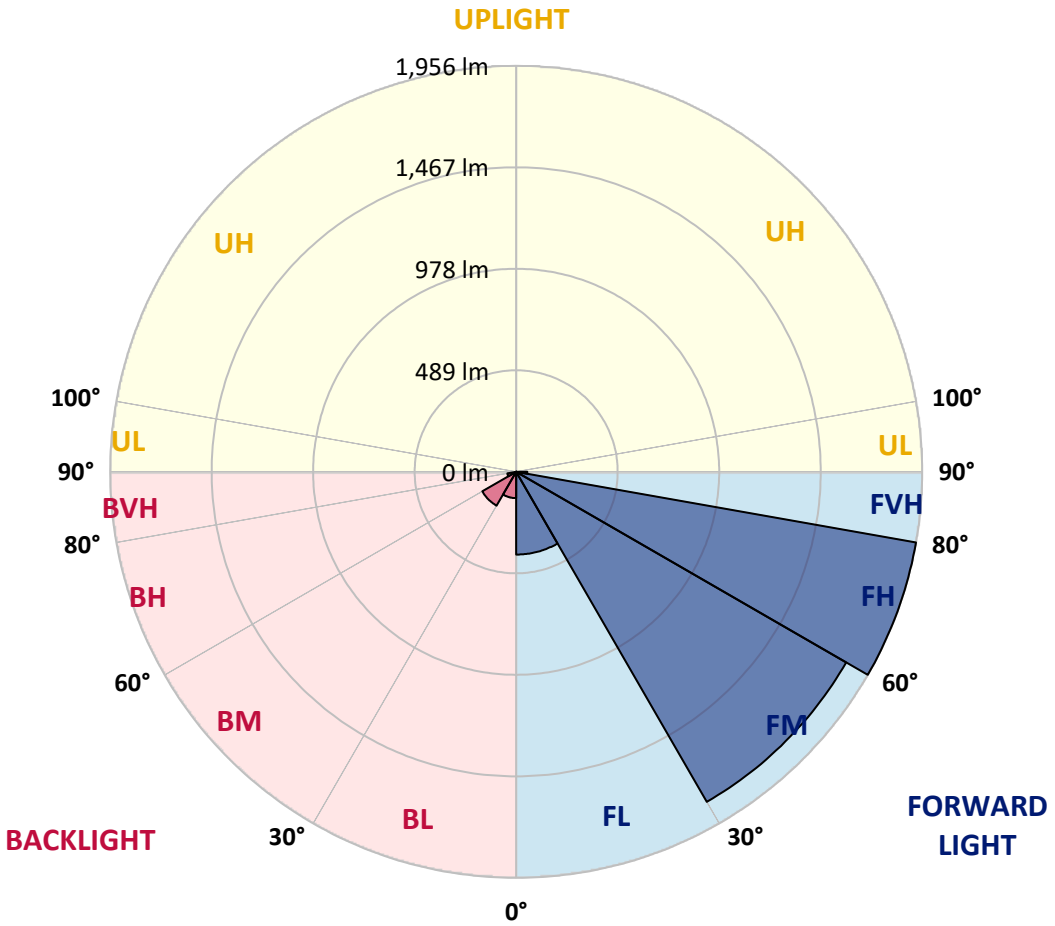
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	398.7	8.7			
FM	(30°-60°)	1835.8	39.9			
FH	(60°-80°)	1955.8	42.5			G2/5000
FVH	(80°-90°)	53.6	1.2			G1/100
BL	(0°-30°)	126.7	2.8	B1/500		
BM	(30°-60°)	188.3	4.1	B0/220		
BH	(60°-80°)	43.3	0.9	B0/110		G0/110
BVH	(80°-90°)	0.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	808.4	808.4	808.4	808.4	808.4	*808.4*	808.4	808.4	808.4	808.4	808.4
2.5°	905.6	899.5	895.5	891.4	879.3	*881.3*	869.1	857.0	838.7	830.6	818.5
5°	927.9	925.9	923.8	917.8	907.6	*911.7*	899.5	887.4	861.0	836.7	810.4
7.5°	923.8	927.9	925.9	921.8	913.7	*915.7*	905.6	893.4	871.2	838.7	802.3
10°	915.7	917.8	917.8	915.7	913.7	*913.7*	905.6	895.5	875.2	846.8	800.3
12.5°	899.5	903.6	909.7	913.7	915.7	*917.8*	911.7	903.6	885.3	855.0	806.3
15°	893.4	897.5	909.7	921.8	927.9	*929.9*	923.8	913.7	897.5	871.2	816.5
17.5°	893.4	897.5	917.8	936.0	948.1	*950.2*	942.1	931.9	911.7	885.3	828.6
20°	905.6	909.7	934.0	966.4	972.5	*976.5*	964.4	950.2	927.9	901.5	842.8
22.5°	925.9	931.9	962.3	992.7	1004.9	*1006.9*	992.7	966.4	946.1	919.8	855.0
25°	960.3	974.5	1002.8	1035.3	1037.3	*1039.3*	1017.0	990.7	966.4	940.0	869.1
27.5°	1008.9	1021.1	1045.4	1081.9	1069.7	*1069.7*	1051.5	1017.0	992.7	968.4	893.4
30°	1071.7	1079.8	1108.2	1122.4	1106.2	*1108.2*	1085.9	1053.5	1033.2	1008.9	929.9
32.5°	1130.5	1136.6	1166.9	1169.0	1150.7	*1148.7*	1132.5	1094.0	1077.8	1069.7	980.6
35°	1185.2	1193.3	1217.6	1215.6	1197.3	*1195.3*	1187.2	1152.8	1152.8	1160.9	1055.5
37.5°	1225.7	1246.0	1276.4	1268.2	1256.1	*1256.1*	1250.0	1223.7	1243.9	1274.3	1154.8
40°	1278.4	1290.5	1331.1	1325.0	1327.0	*1327.0*	1329.0	1312.8	1349.3	1399.9	1270.3
42.5°	1306.7	1331.1	1379.7	1387.8	1406.0	*1406.0*	1422.2	1418.2	1487.0	1551.9	1404.0
45°	1351.3	1377.6	1430.3	1460.7	1483.0	*1493.1*	1521.5	1543.8	1641.0	1722.1	1545.8
47.5°	1408.0	1430.3	1474.9	1531.6	1572.1	*1588.3*	1645.1	1681.5	1811.2	1894.3	1679.5
50°	1485.0	1489.1	1521.5	1606.6	1677.5	*1687.6*	1776.8	1837.5	1983.4	2060.4	1774.7
52.5°	1568.1	1560.0	1578.2	1693.7	1793.0	*1811.2*	1912.5	2005.7	2151.6	2167.8	1813.2
55°	1632.9	1632.9	1647.1	1788.9	1922.6	*1932.8*	2074.6	2173.8	2305.5	2230.6	1837.5
57.5°	1716.0	1707.9	1730.2	1886.2	2084.7	*2092.8*	2256.9	2333.9	2390.6	2271.1	1833.5
60°	1776.8	1786.9	1821.3	2011.8	2252.9	*2289.3*	2427.1	2451.4	2479.8	2285.3	1821.3
62.5°	1861.9	1859.8	1926.7	2151.6	2471.7	*2496.0*	2591.2	2550.7	2548.6	2309.6	1805.1
65°	1932.8	1949.0	2050.3	2319.7	2704.6	*2720.9*	2753.3	2700.6	2643.9	2335.9	1663.3
67.5°	2042.2	2074.6	2202.2	2540.5	2953.8	*2972.1*	3000.4	2885.0	2670.2	2149.5	1385.8
70°	2165.7	2208.3	2414.9	2834.3	3221.3	*3241.5*	3247.6	2903.2	2419.0	1687.6	940.0
72.5°	*2042.2*	*2111.0*	*2475.7*	*2996.4*	*3415.8*	*3417.8*	*3172.6*	*2564.9*	*1853.7*	*921.8*	*332.3*
75°	1314.8	1402.0	2050.3	2658.1	2941.7	*2974.1*	2487.9	1793.0	865.1	206.6	93.2
77.5°	445.7	476.1	1006.9	1677.5	1973.3	*1985.4*	1637.0	907.6	273.5	83.1	50.6
80°	257.3	255.3	352.5	733.4	984.6	*1023.1*	824.6	362.6	127.6	42.5	34.4
82.5°	60.8	62.8	184.4	267.4	391.0	*352.5*	174.2	218.8	58.8	24.3	30.4
85°	0.0	0.0	30.4	64.8	46.6	*54.7*	16.2	66.9	10.1	10.1	20.3
87.5°	0.0	0.0	0.0	0.0	2.0	*2.0*	2.0	2.0	2.0	2.0	2.0
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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CATALOG NUMBER: ISW-SA1E-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	808.4	808.4	808.4	808.4	808.4	808.4	808.4	808.4	808.4	808.4	808.4
2.5°	806.3	796.2	775.9	759.7	737.4	719.2	701.0	692.9	678.7	674.6	676.7
5°	794.2	778.0	739.5	701.0	658.4	617.9	575.4	551.1	540.9	522.7	518.6
7.5°	780.0	755.7	701.0	638.2	565.2	506.5	447.7	407.2	370.7	356.6	350.5
10°	773.9	743.5	666.5	571.3	472.0	376.8	303.9	251.2	218.8	206.6	202.6
12.5°	773.9	737.4	634.1	506.5	374.8	265.4	198.5	168.2	158.0	156.0	154.0
15°	782.0	735.4	603.7	437.6	283.6	184.4	151.9	147.9	145.9	145.9	147.9
17.5°	786.1	731.4	571.3	370.7	208.7	147.9	141.8	141.8	141.8	141.8	141.8
20°	796.2	729.3	534.9	299.8	158.0	137.8	135.7	135.7	135.7	135.7	137.8
22.5°	798.2	729.3	490.3	231.0	139.8	131.7	129.7	129.7	129.7	131.7	131.7
25°	810.4	725.3	447.7	176.3	131.7	123.6	123.6	121.6	123.6	123.6	123.6
27.5°	826.6	727.3	395.1	145.9	123.6	117.5	115.5	115.5	115.5	115.5	115.5
30°	844.8	731.4	340.4	129.7	115.5	111.4	109.4	107.4	107.4	107.4	107.4
32.5°	879.3	735.4	281.6	117.5	107.4	103.3	101.3	99.3	99.3	99.3	99.3
35°	931.9	757.7	231.0	109.4	99.3	95.2	93.2	91.2	91.2	91.2	89.1
37.5°	1002.8	792.1	182.3	101.3	91.2	87.1	85.1	83.1	81.0	81.0	81.0
40°	1087.9	828.6	151.9	91.2	83.1	79.0	77.0	75.0	72.9	70.9	70.9
42.5°	1189.2	873.2	121.6	83.1	75.0	70.9	68.9	66.9	62.8	60.8	62.8
45°	1302.7	915.7	103.3	77.0	68.9	64.8	62.8	58.8	54.7	52.7	52.7
47.5°	1402.0	925.9	91.2	68.9	62.8	58.8	56.7	50.6	46.6	42.5	42.5
50°	1468.8	907.6	81.0	62.8	56.7	54.7	50.6	42.5	36.5	34.4	32.4
52.5°	1476.9	859.0	70.9	56.7	52.7	48.6	42.5	36.5	30.4	26.3	26.3
55°	1468.8	778.0	62.8	52.7	46.6	42.5	36.5	28.4	22.3	20.3	18.2
57.5°	1442.5	692.9	56.7	46.6	42.5	36.5	28.4	22.3	16.2	14.2	12.2
60°	1393.9	589.6	50.6	42.5	36.5	30.4	22.3	16.2	10.1	8.1	8.1
62.5°	1302.7	476.1	44.6	36.5	30.4	24.3	18.2	10.1	6.1	4.1	4.1
65°	1122.4	356.6	38.5	30.4	24.3	20.3	12.2	6.1	2.0	0.0	0.0
67.5°	873.2	241.1	30.4	24.3	20.3	16.2	10.1	2.0	0.0	0.0	0.0
70°	514.6	127.6	24.3	18.2	16.2	12.2	6.1	2.0	0.0	0.0	0.0
72.5°	*147.9*	*50.6*	*18.2*	*14.2*	*12.2*	*8.1*	*4.1*	*2.0*	*0.0*	*0.0*	*0.0*
75°	60.8	30.4	12.2	10.1	10.1	6.1	2.0	2.0	0.0	0.0	0.0
77.5°	40.5	22.3	8.1	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0
80°	32.4	12.2	4.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
82.5°	28.4	8.1	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	4.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	0.0	0.0	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

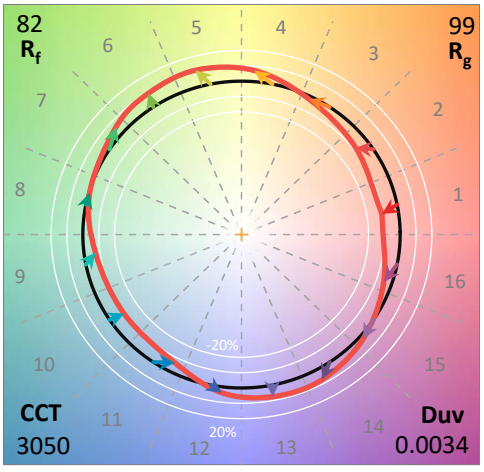
Test Information

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

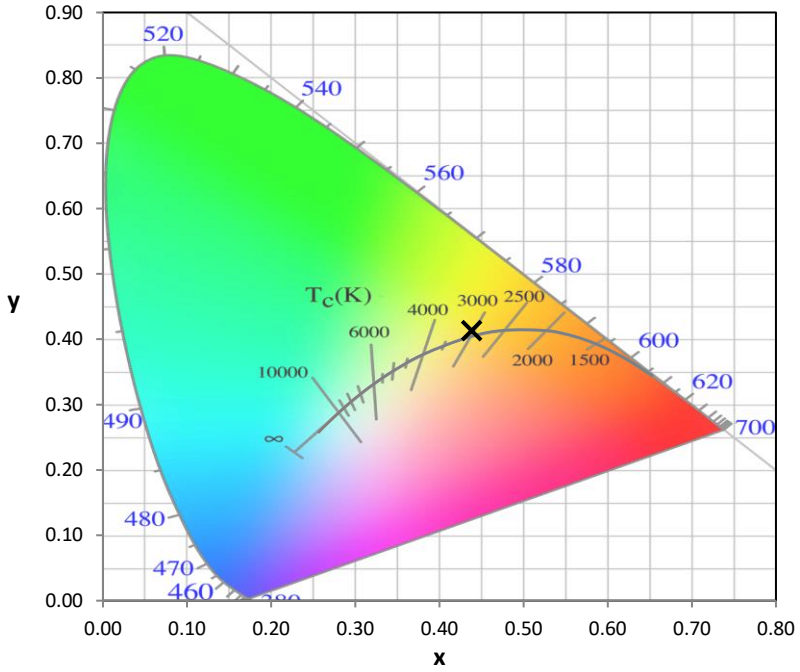
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

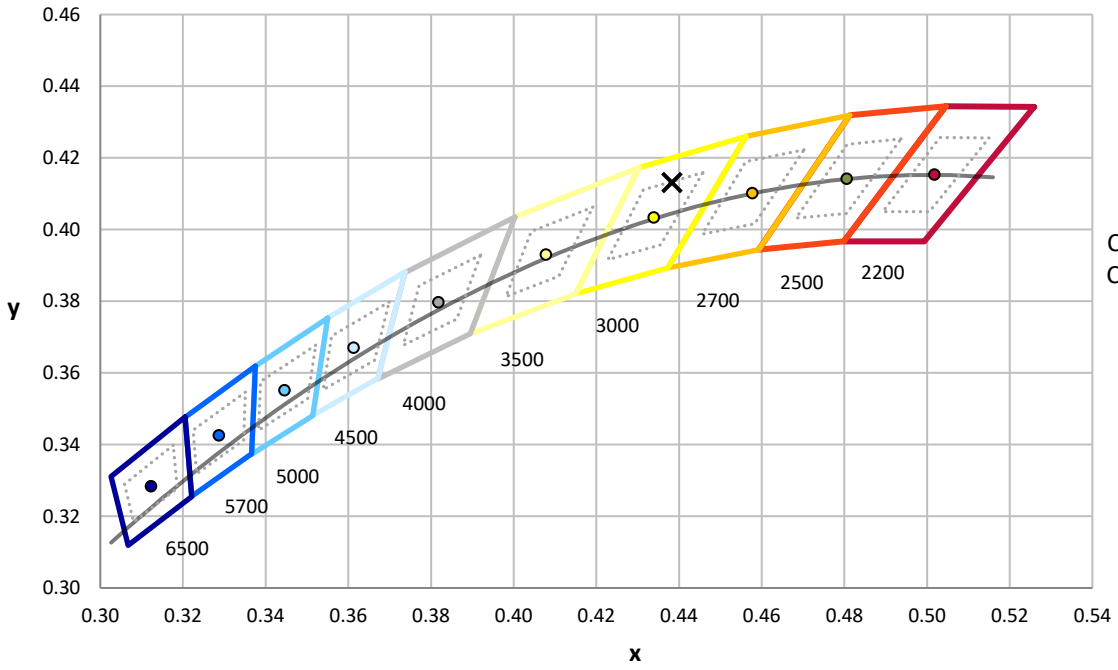
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

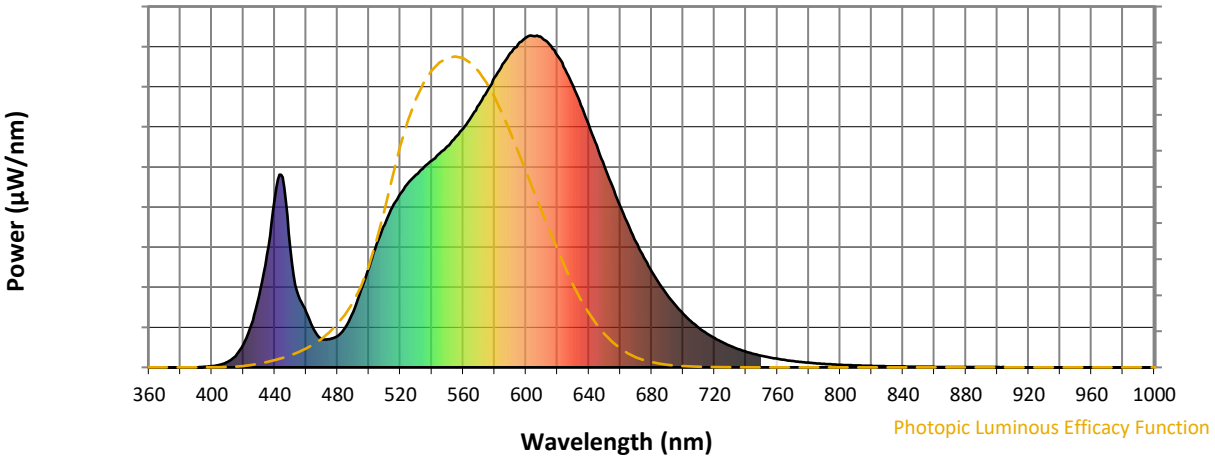


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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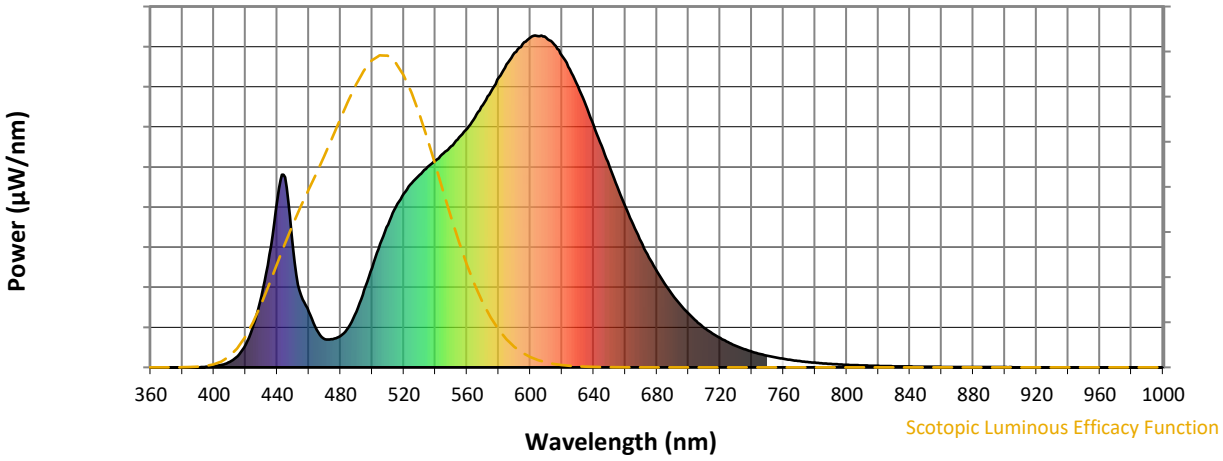
Scotopic Flux vs. Wavelength



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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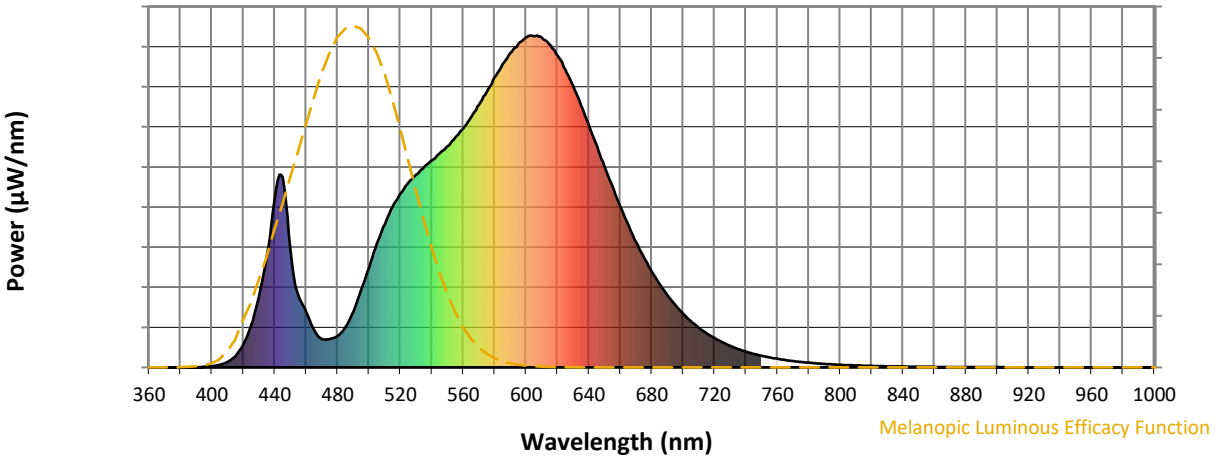
Melanopic Flux vs. Wavelength



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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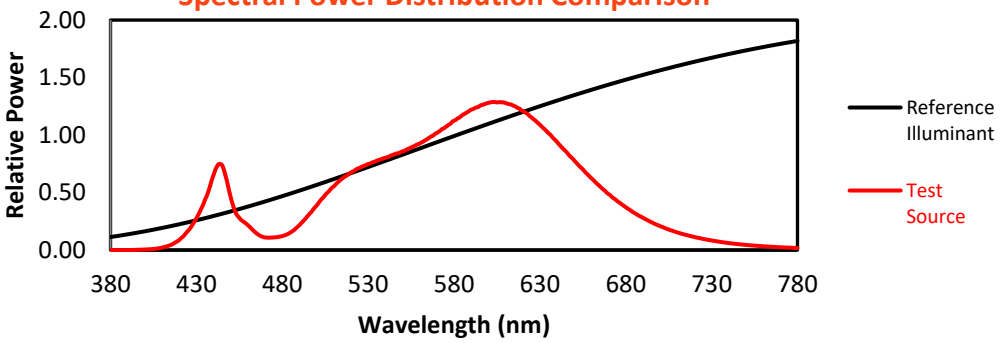
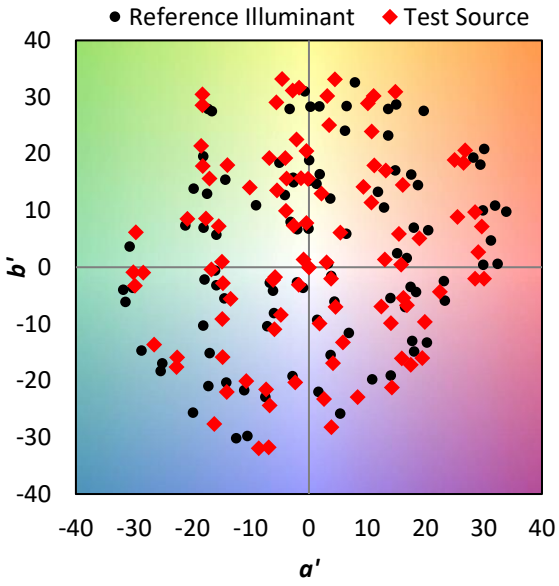
Summary

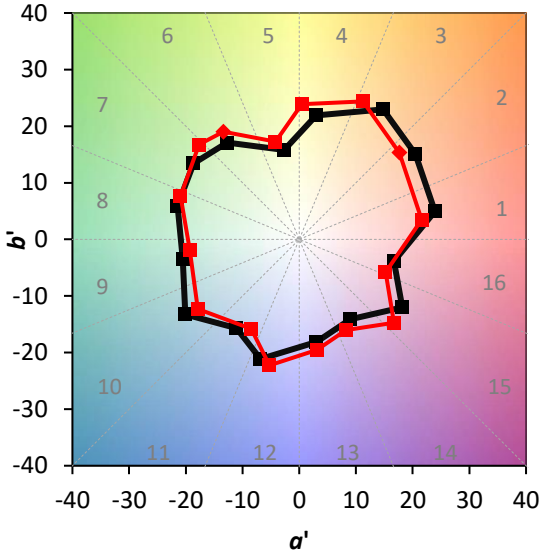
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

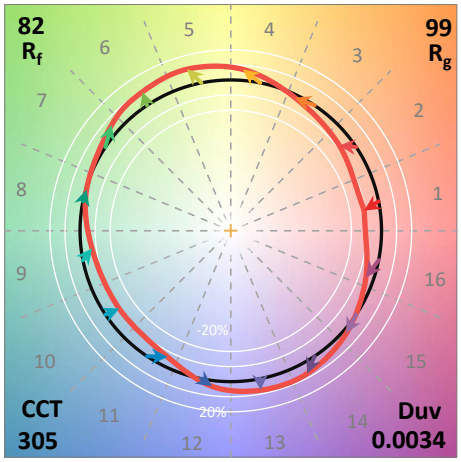
Spectral Power Distribution Comparison

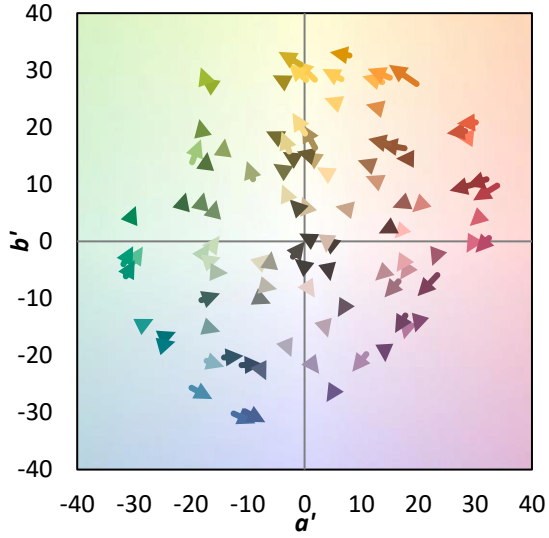


Color Vector Graphics









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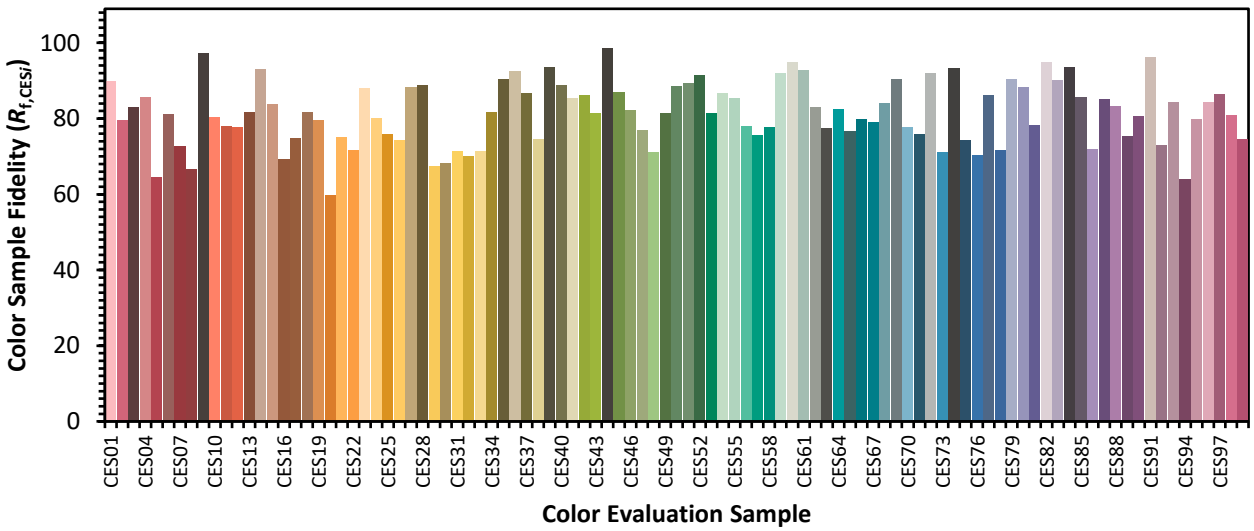
Individual Sample Fidelity Index ($R_{f,i}$)

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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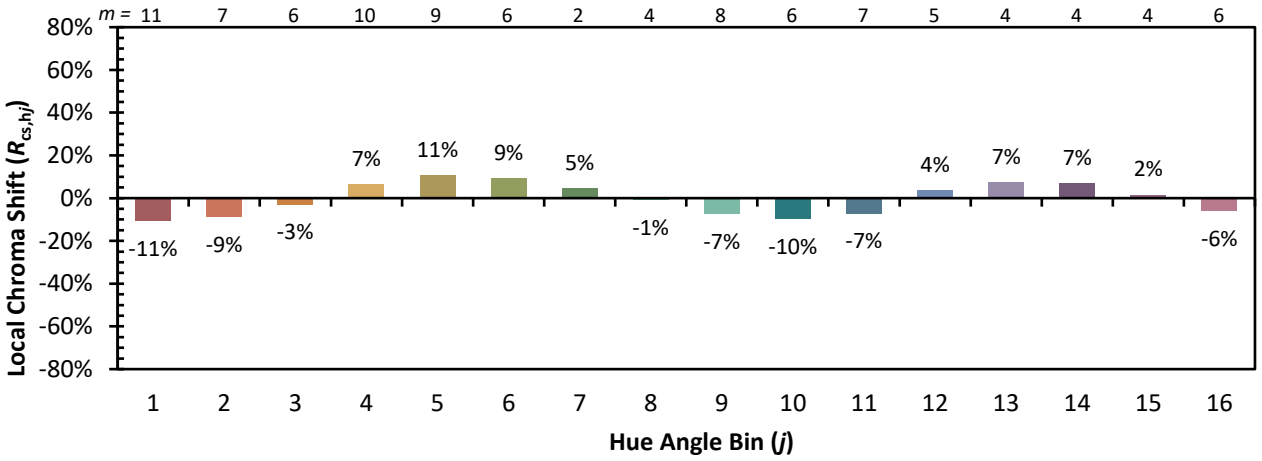
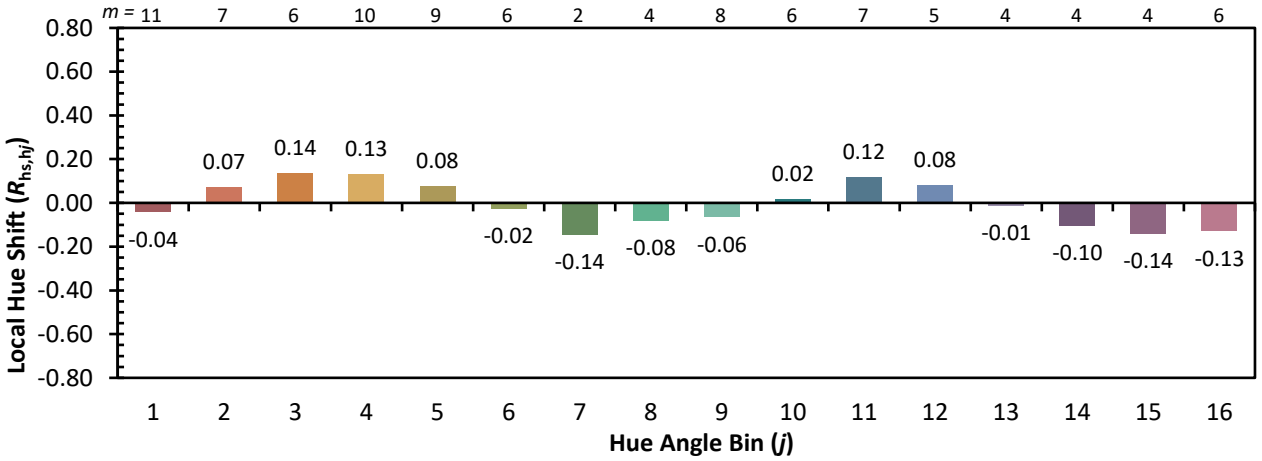
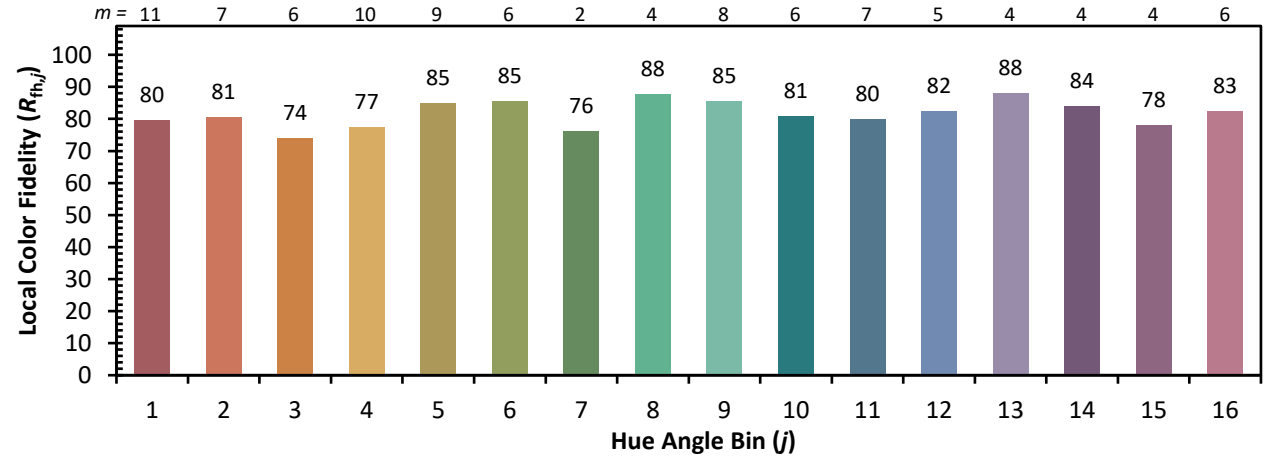
Color Rendition by Hue-Angle Bin







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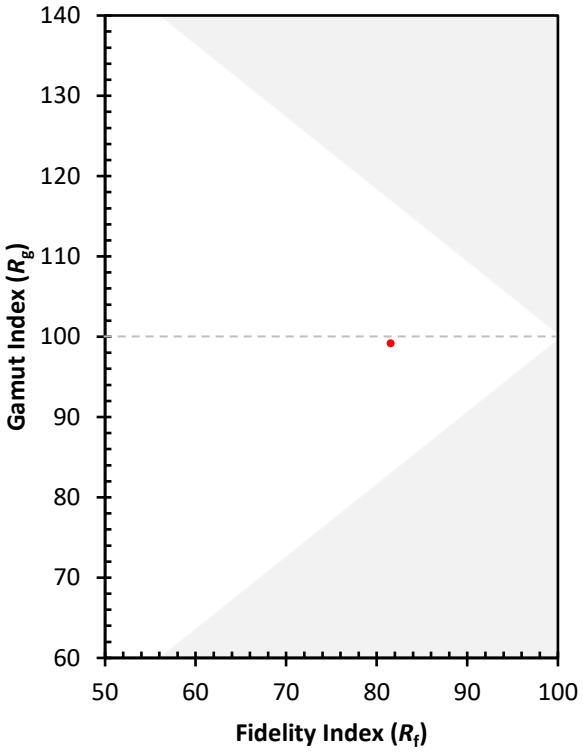
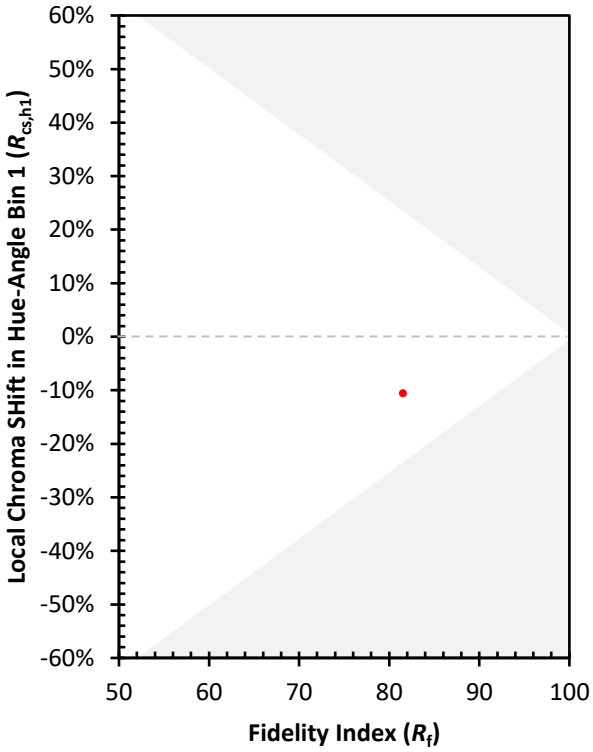
Measure Comparisons





(END OF REPORT)