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: P438628

Luminaire Tested: **ISW-SA1D-830-U-T3-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:	P438628
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-9)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISW-SA1D-830-U-T3-HSS
Description:	IMPACT ELITE LED WEDGE LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3205 lumens
Efficiency:	N/A
Efficacy:	70.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	45.2
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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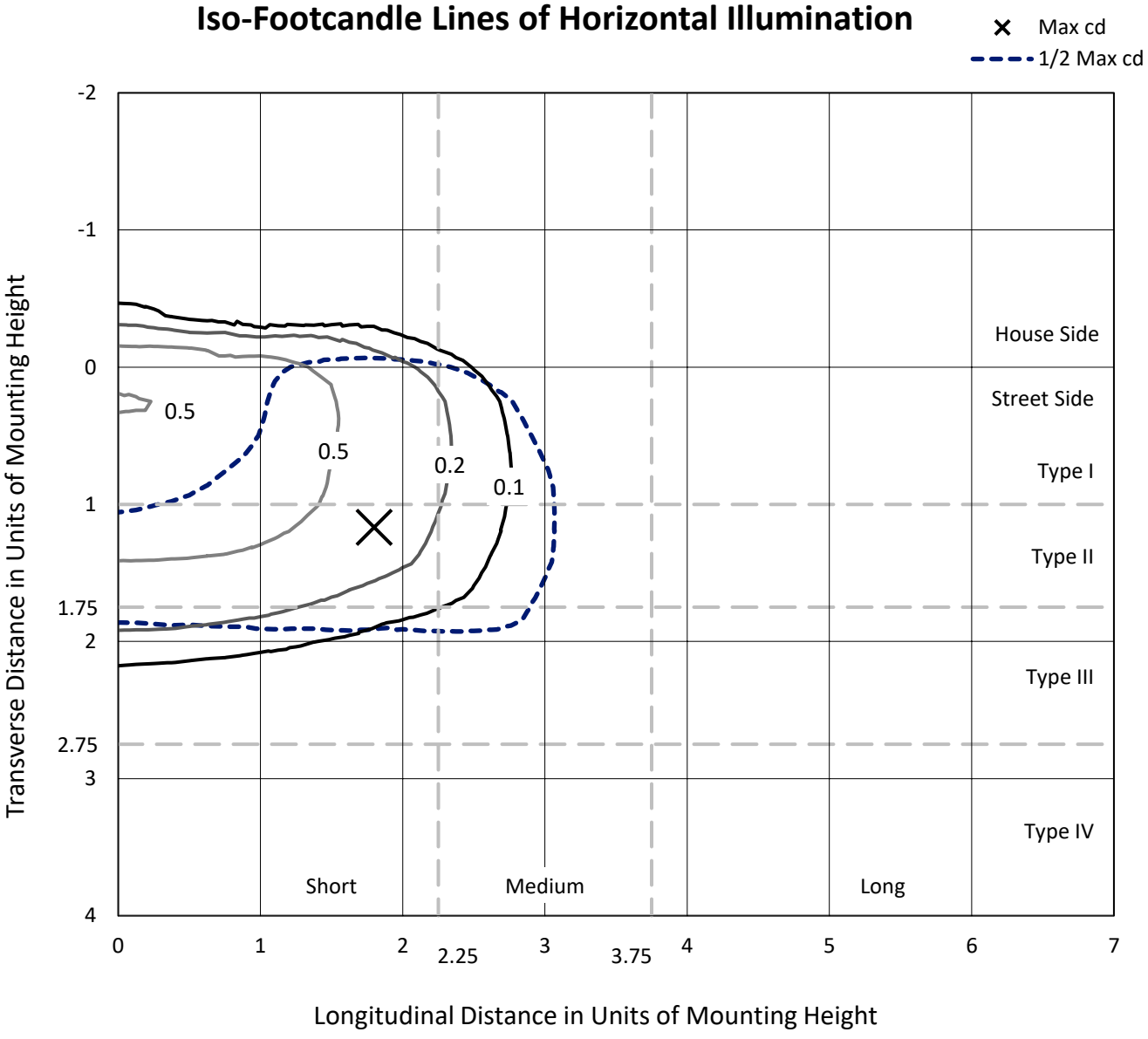
REPORT NUMBER: P438628
CATALOG NUMBER: ISW-SA1D-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type III - Short - N/A

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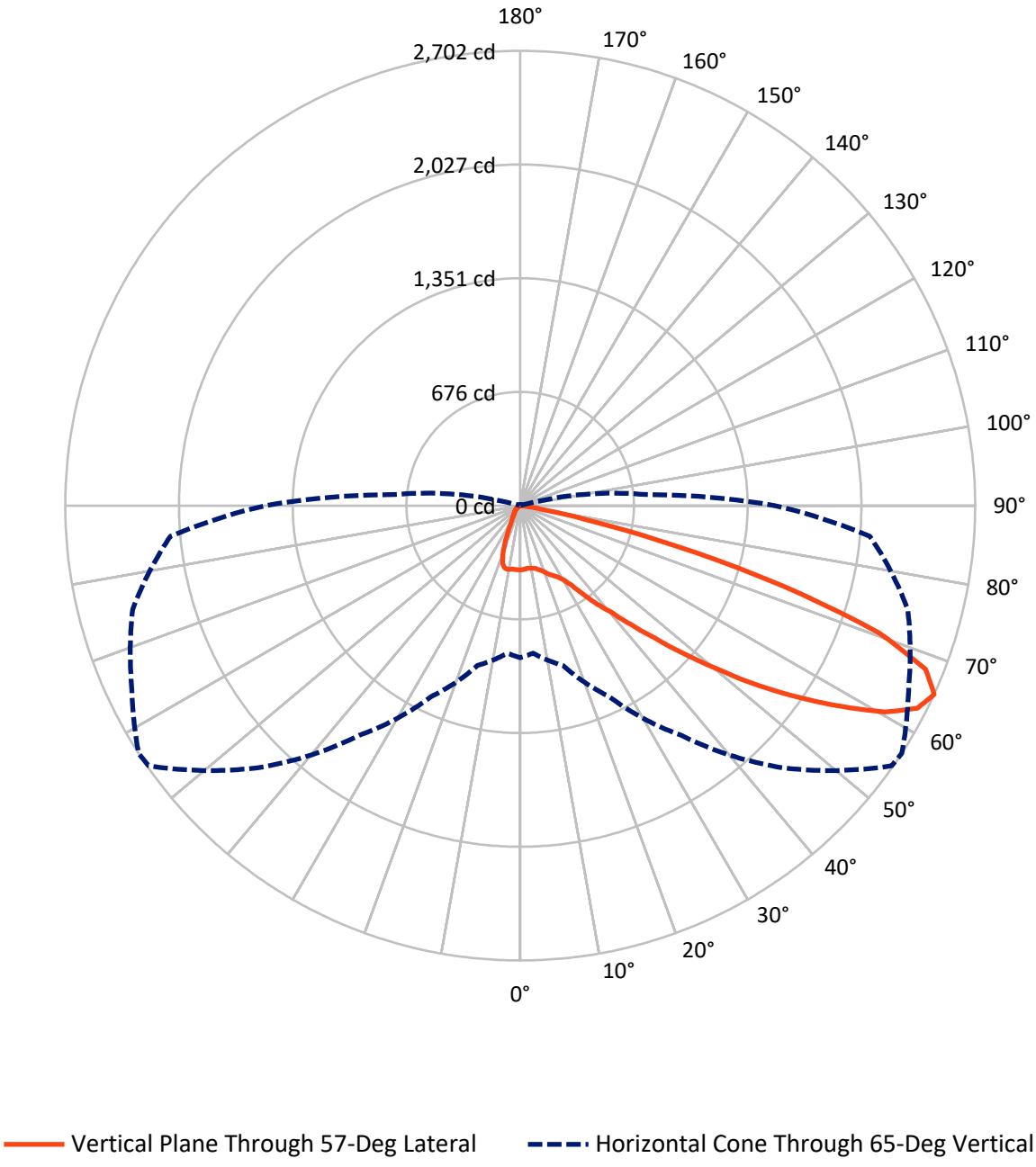
Luminous Intensity Polar Plot



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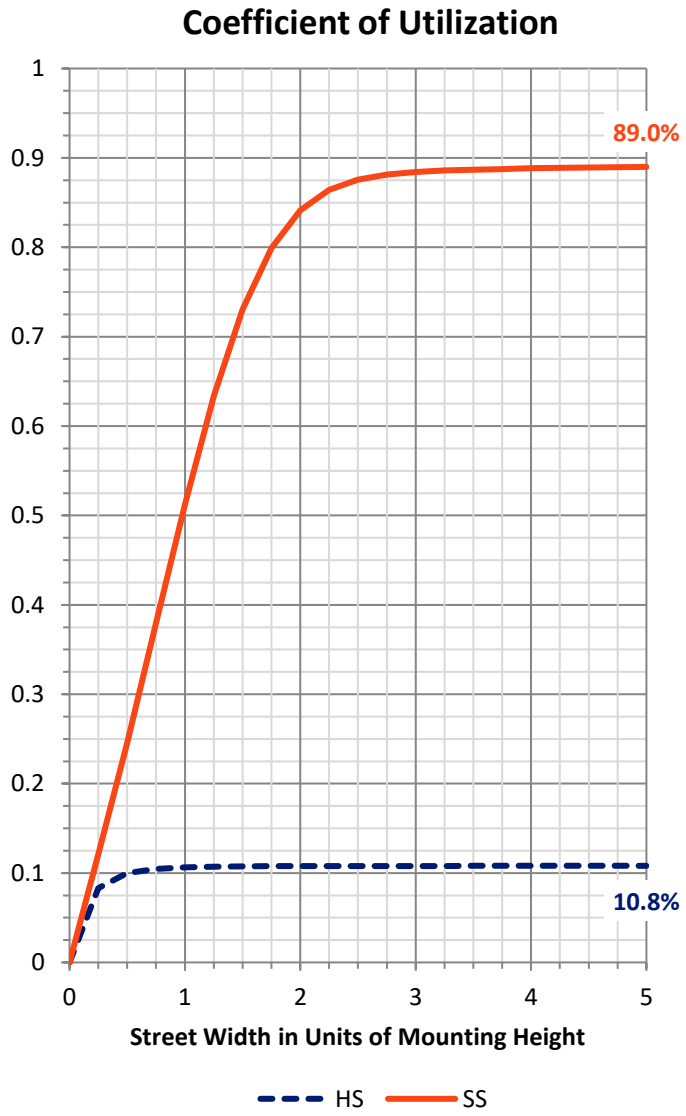
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	349.6	0.0	349.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	2855.4	0.0	2855.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	3205.0	0.0	3205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	1.1
10°-20°	95.9	3.0
20°-30°	165.6	5.2
30°-40°	293.4	9.2
40°-50°	532.1	16.6
50°-60°	896.3	28.0
60°-70°	921.7	28.8
70°-80°	255.4	8.0
80°-90°	9.1	0.3
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°	3205.0	100.0
0°-180°	3205.0	100.0



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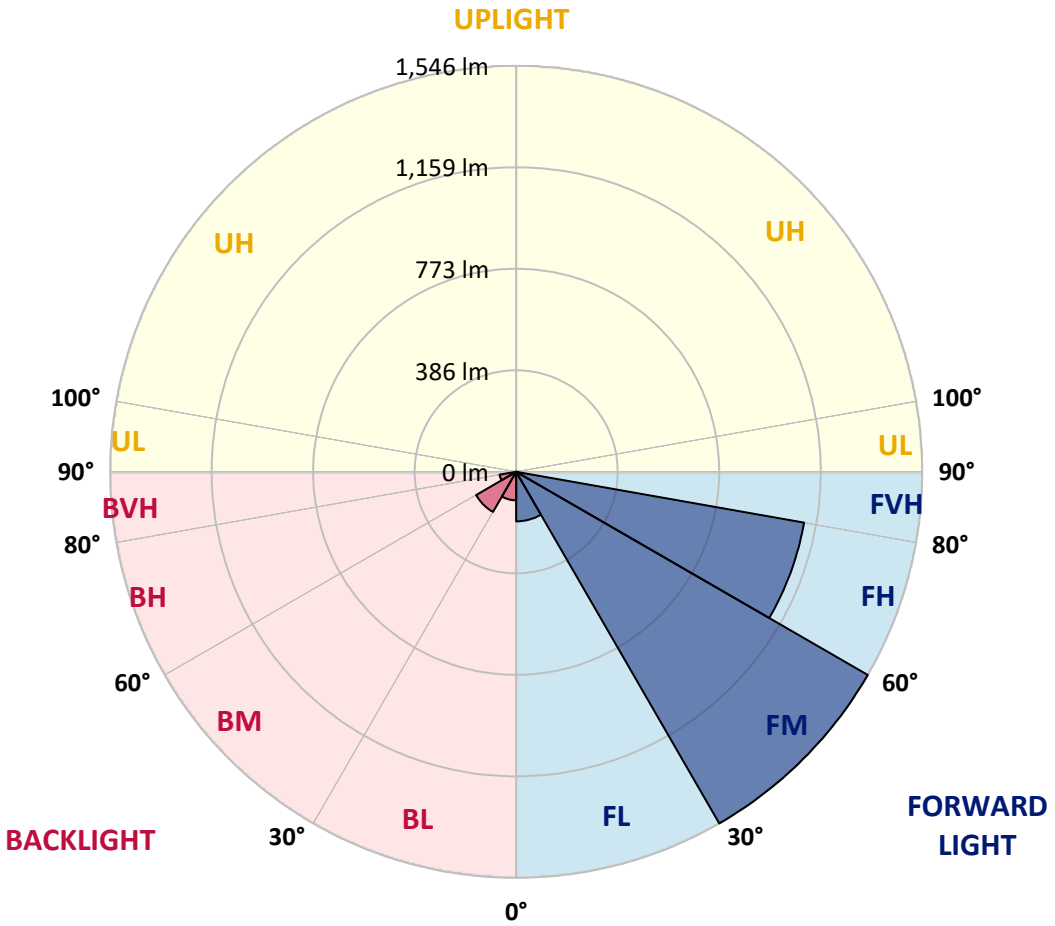
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	188.5	5.9			
FM	(30°-60°)	1545.6	48.2			
FH	(60°-80°)	1113.0	34.7			G1/1800
FVH	(80°-90°)	8.4	0.3			G0/10
BL	(0°-30°)	108.5	3.4	B0/110		
BM	(30°-60°)	176.3	5.5	B0/220		
BH	(60°-80°)	64.1	2.0	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Short



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Scaled Data Report

REPORT NUMBER: P438628
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	381.3	381.3	381.3	381.3	381.3	381.3	381.3	*381.3*	381.3	381.3	381.3
2.5°	370.4	370.4	373.5	375.1	375.1	376.7	378.2	*379.8*	379.8	379.8	382.9
5°	351.7	350.1	353.2	356.3	361.0	367.3	372.0	*375.1*	379.8	384.5	386.0
7.5°	334.5	334.5	337.6	342.3	351.7	361.0	370.4	*375.1*	382.9	392.3	395.4
10°	329.8	328.2	332.9	337.6	347.0	357.9	372.0	*378.2*	389.2	401.7	406.4
12.5°	326.6	326.6	328.2	336.0	345.4	359.5	376.7	*381.3*	398.5	412.6	423.5
15°	325.1	325.1	328.2	334.5	345.4	361.0	384.5	*392.3*	412.6	432.9	442.3
17.5°	337.6	336.0	334.5	337.6	348.5	365.7	397.0	*404.8*	429.8	454.8	465.7
20°	375.1	373.5	368.8	357.9	357.9	378.2	412.6	*422.0*	454.8	479.8	486.1
22.5°	445.4	450.1	432.9	404.8	384.5	393.9	432.9	*443.9*	481.4	507.9	507.9
25°	547.0	540.8	525.1	478.3	437.6	418.9	450.1	*461.1*	506.4	537.6	531.4
27.5°	653.3	654.9	633.0	579.8	514.2	464.2	468.9	*481.4*	533.0	568.9	554.8
30°	737.7	731.4	720.5	676.7	604.8	536.1	504.8	*512.6*	562.6	603.3	590.8
32.5°	812.7	809.6	795.5	758.0	693.9	620.5	564.2	*565.8*	604.8	654.9	639.2
35°	879.9	883.0	876.8	834.6	776.8	708.0	643.9	*648.6*	678.3	729.9	698.6
37.5°	964.3	964.3	953.4	914.3	870.5	801.8	740.8	*742.4*	758.0	800.2	761.1
40°	1037.8	1040.9	1039.3	1009.6	967.4	904.9	831.5	*831.5*	836.2	886.2	865.9
42.5°	1137.8	1142.5	1140.9	1112.8	1080.0	1034.6	972.1	*967.4*	964.3	1026.8	1005.0
45°	1266.0	1276.9	1281.6	1247.2	1217.5	1190.9	1142.5	*1123.7*	1131.5	1189.4	1172.2
47.5°	1387.9	1400.4	1422.2	1405.1	1391.0	1391.0	1325.3	*1322.2*	1309.7	1376.9	1330.0
50°	1503.5	1505.1	1536.3	1562.9	1605.1	1597.3	1553.5	*1534.8*	1516.0	1561.3	1476.9
52.5°	1569.2	1587.9	1628.6	1705.1	1797.3	1834.9	1789.5	*1778.6*	1741.1	1734.8	1619.2
55°	1630.1	1630.1	1694.2	1827.0	1983.3	2063.0	2025.5	*2013.0*	1938.0	1916.1	1766.1
57.5°	1650.4	1644.2	1730.1	1898.9	2133.4	2272.5	2280.3	*2252.2*	2147.4	2080.2	1916.1
60°	1548.8	1537.9	1628.6	1852.0	2174.0	2424.1	2508.5	*2489.7*	2328.7	2239.6	2074.0
62.5°	1256.6	1270.6	1386.3	1628.6	2030.2	2408.4	2660.1	*2649.1*	2463.1	2347.5	2136.5
65°	*903.4*	*879.9*	*983.1*	*1251.9*	*1666.1*	*2202.1*	*2694.5*	*2702.3*	*2546.0*	*2383.4*	*2084.9*
67.5°	506.4	484.5	570.5	775.2	1184.7	1806.7	2553.8	*2597.6*	2486.6	2294.3	1863.0
70°	193.8	206.3	265.7	382.9	698.6	1247.2	2197.4	*2260.0*	2180.3	1914.6	1387.9
72.5°	68.8	78.1	109.4	170.4	323.5	672.1	1536.3	*1630.1*	1606.7	1330.0	794.0
75°	40.6	42.2	56.3	82.8	142.2	262.6	867.4	*945.6*	908.0	658.0	328.2
77.5°	28.1	28.1	35.9	50.0	81.3	104.7	339.2	*384.5*	395.4	237.6	96.9
80°	17.2	18.8	25.0	32.8	46.9	48.5	104.7	*123.5*	115.7	84.4	34.4
82.5°	7.8	7.8	14.1	21.9	23.4	20.3	32.8	*35.9*	42.2	37.5	15.6
85°	0.0	0.0	4.7	7.8	6.3	4.7	10.9	*10.9*	14.1	17.2	7.8
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	*1.6*	1.6	3.1	1.6
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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REPORT NUMBER: P438628
CATALOG NUMBER: ISW-SA1D-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3
2.5°	382.9	384.5	382.9	381.3	381.3	379.8	379.8	379.8	379.8	379.8	379.8
5°	386.0	387.6	386.0	382.9	379.8	376.7	373.5	373.5	373.5	373.5	376.7
7.5°	395.4	395.4	392.3	386.0	378.2	375.1	368.8	367.3	364.2	362.6	364.2
10°	409.5	409.5	403.2	393.9	381.3	368.8	357.9	342.3	332.9	326.6	325.1
12.5°	423.5	422.0	414.2	401.7	381.3	353.2	317.3	278.2	254.8	237.6	234.4
15°	442.3	440.7	428.2	406.4	372.0	312.6	242.3	189.1	161.0	148.5	146.9
17.5°	462.6	459.5	442.3	409.5	342.3	236.0	159.4	123.5	112.5	109.4	109.4
20°	484.5	479.8	453.2	404.8	282.9	161.0	111.0	103.2	101.6	100.0	100.0
22.5°	501.7	493.9	461.1	381.3	211.0	111.0	98.5	96.9	95.3	93.8	93.8
25°	520.4	507.9	467.3	329.8	139.1	95.3	92.2	90.6	87.5	86.0	86.0
27.5°	542.3	523.6	476.7	259.4	96.9	86.0	82.8	81.3	76.6	73.5	73.5
30°	570.5	547.0	481.4	189.1	81.3	75.0	71.9	68.8	62.5	59.4	59.4
32.5°	615.8	595.5	472.0	126.6	73.5	67.2	62.5	56.3	50.0	46.9	45.3
35°	673.6	645.5	439.2	89.1	65.6	59.4	51.6	43.8	39.1	37.5	37.5
37.5°	737.7	700.2	389.2	71.9	59.4	51.6	43.8	35.9	31.3	29.7	29.7
40°	828.3	770.5	320.4	62.5	51.6	43.8	35.9	29.7	26.6	25.0	25.0
42.5°	947.1	859.6	242.3	57.8	46.9	37.5	29.7	25.0	21.9	20.3	20.3
45°	1080.0	953.4	176.6	51.6	40.6	31.3	23.4	20.3	17.2	15.6	15.6
47.5°	1212.8	1020.6	121.9	46.9	34.4	26.6	20.3	15.6	12.5	12.5	10.9
50°	1328.5	1056.5	87.5	40.6	31.3	21.9	15.6	12.5	10.9	9.4	9.4
52.5°	1430.1	1072.2	67.2	35.9	26.6	18.8	12.5	10.9	9.4	9.4	9.4
55°	1516.0	1059.7	53.1	31.3	23.4	15.6	10.9	9.4	7.8	7.8	7.8
57.5°	1600.4	1022.1	42.2	26.6	18.8	10.9	9.4	7.8	6.3	6.3	6.3
60°	1644.2	973.7	34.4	21.9	15.6	9.4	7.8	6.3	6.3	4.7	4.7
62.5°	1614.5	875.2	28.1	18.8	10.9	7.8	6.3	4.7	4.7	3.1	3.1
65°	*1514.5*	*750.2*	*21.9*	*14.1*	*7.8*	*6.3*	*4.7*	*4.7*	*3.1*	*1.6*	*1.6*
67.5°	1276.9	587.7	17.2	10.9	6.3	4.7	3.1	3.1	1.6	0.0	0.0
70°	912.7	387.6	14.1	7.8	4.7	4.7	3.1	1.6	0.0	0.0	0.0
72.5°	526.7	187.5	10.9	4.7	3.1	3.1	1.6	1.6	0.0	0.0	0.0
75°	196.9	65.6	9.4	4.7	3.1	1.6	1.6	1.6	0.0	0.0	0.0
77.5°	65.6	26.6	7.8	6.3	4.7	1.6	1.6	0.0	0.0	0.0	0.0
80°	20.3	12.5	3.1	3.1	3.1	3.1	1.6	0.0	0.0	0.0	0.0
82.5°	10.9	6.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	4.7	3.1	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	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

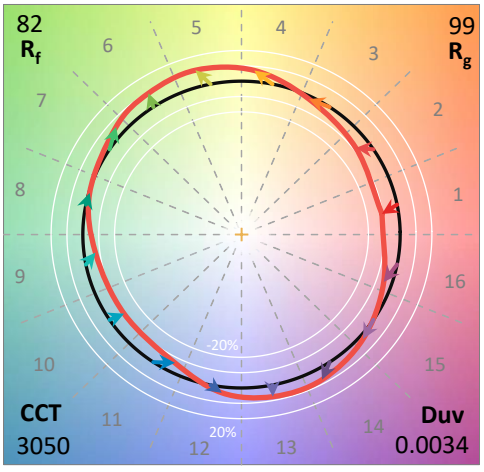
Test Information

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

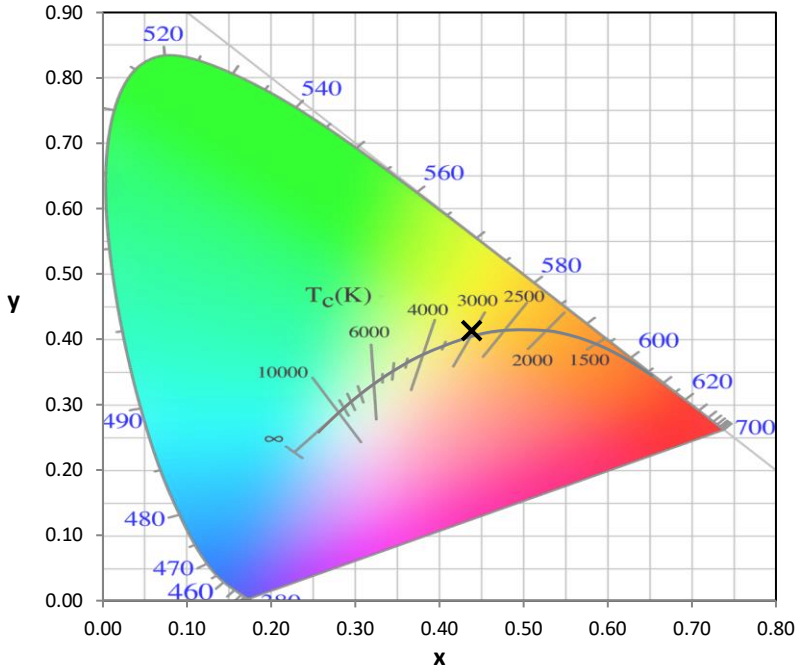
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

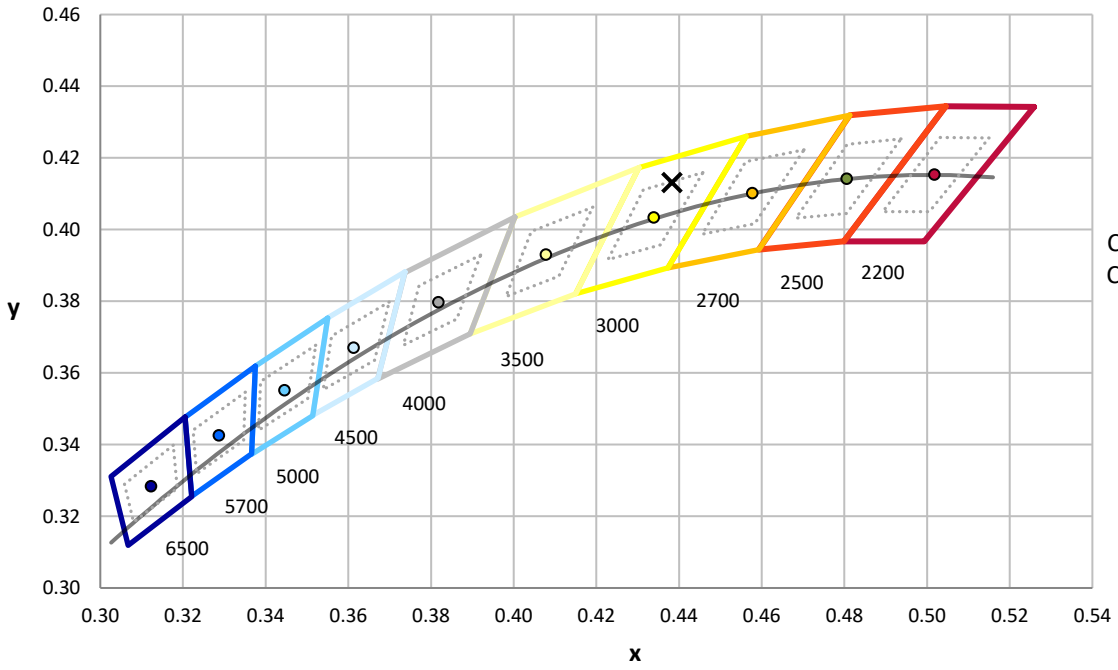
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

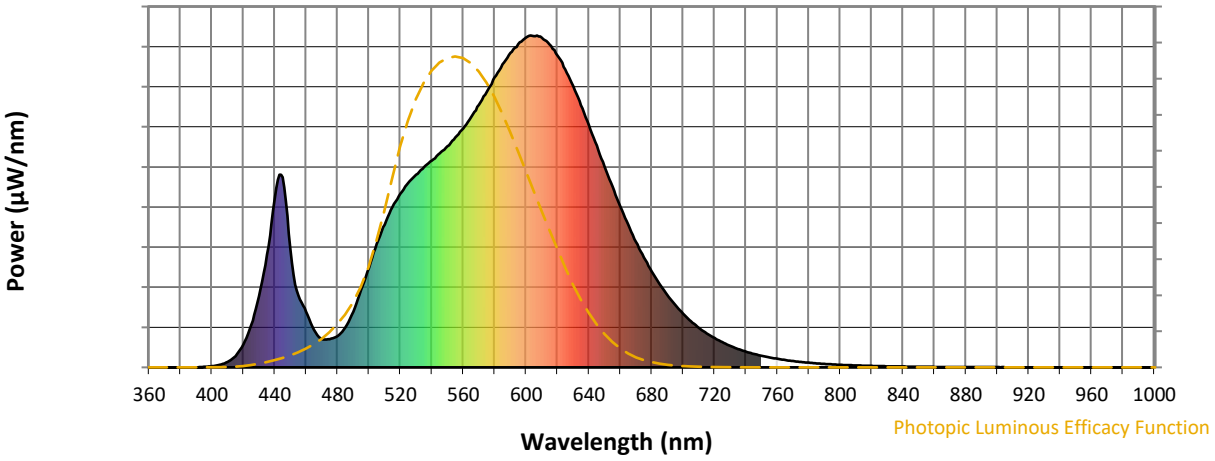


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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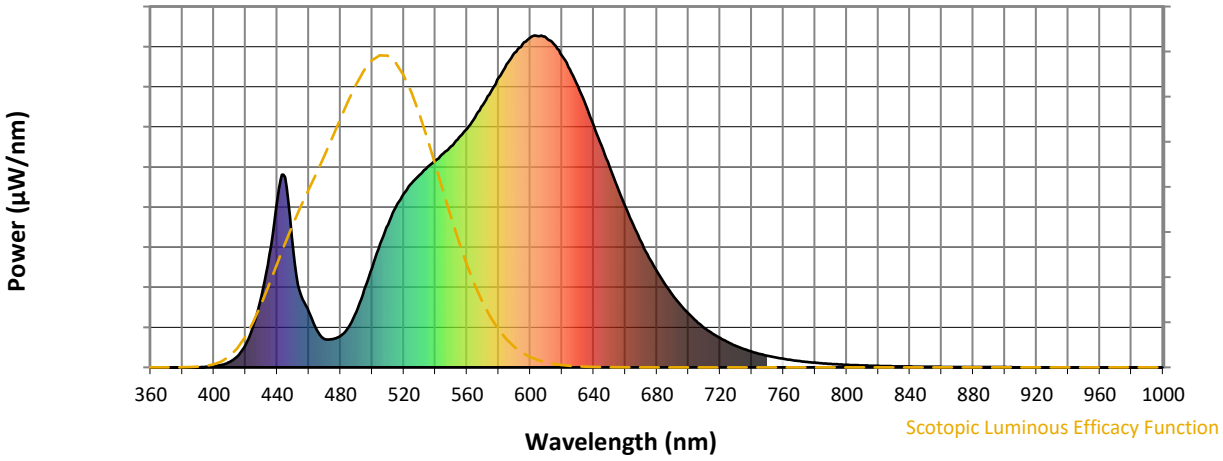
Scotopic Flux vs. Wavelength



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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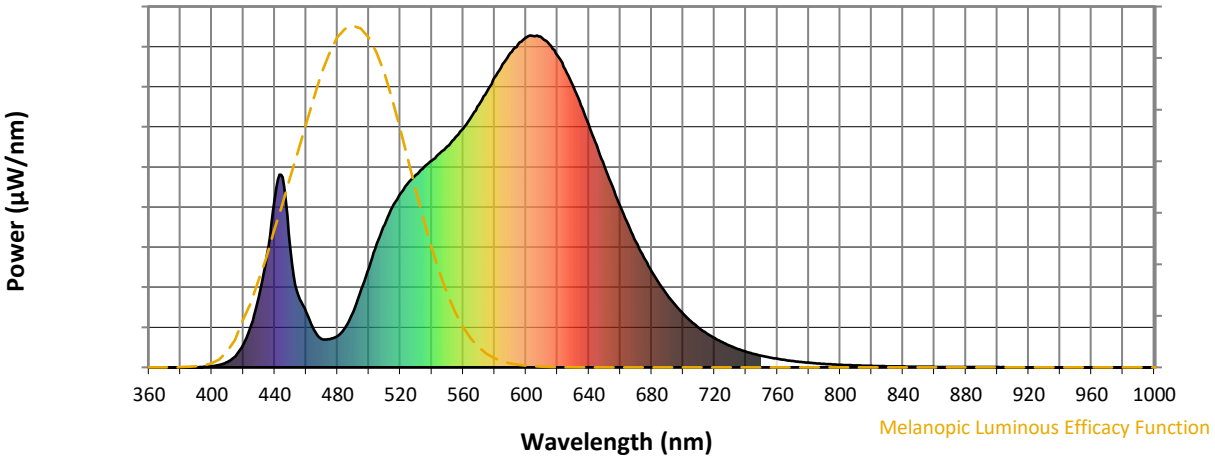
Melanopic Flux vs. Wavelength



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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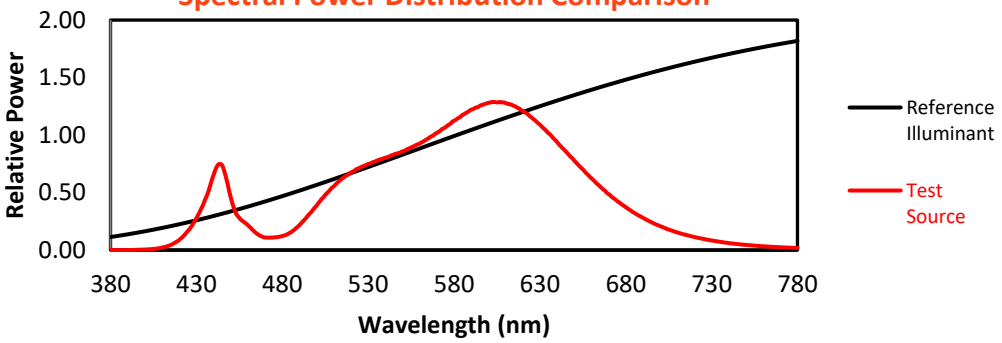
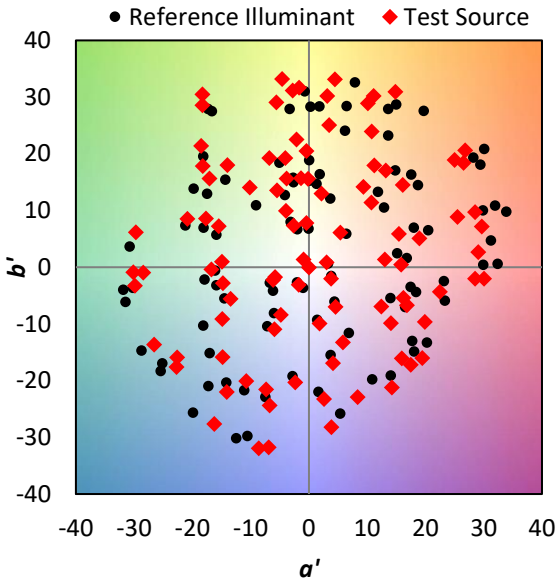
Summary

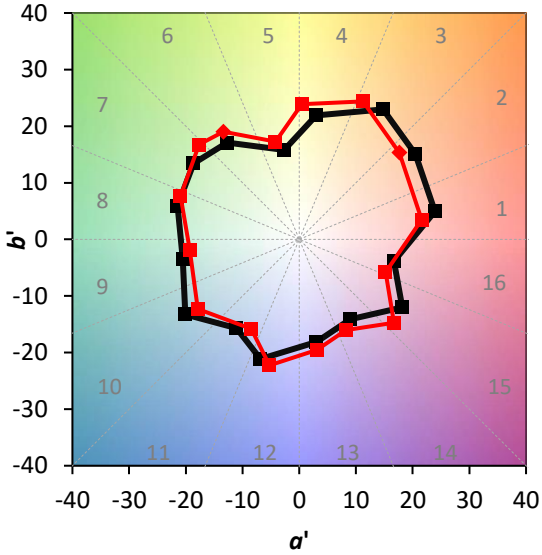
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

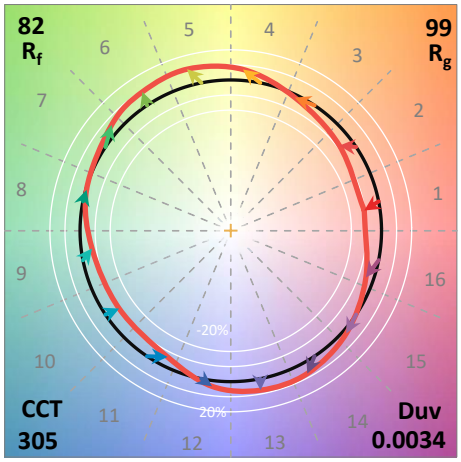
Spectral Power Distribution Comparison

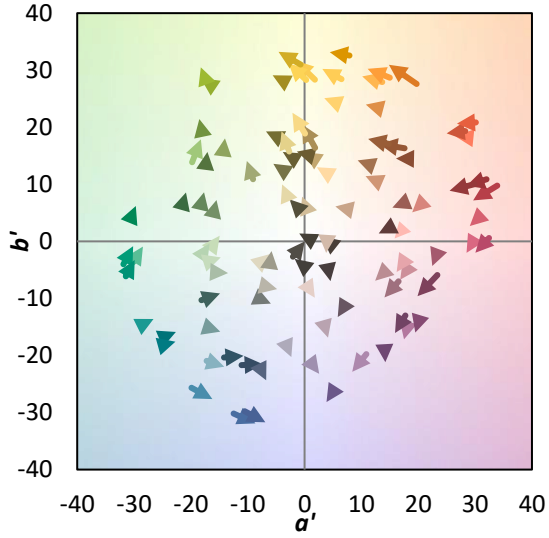


Color Vector Graphics









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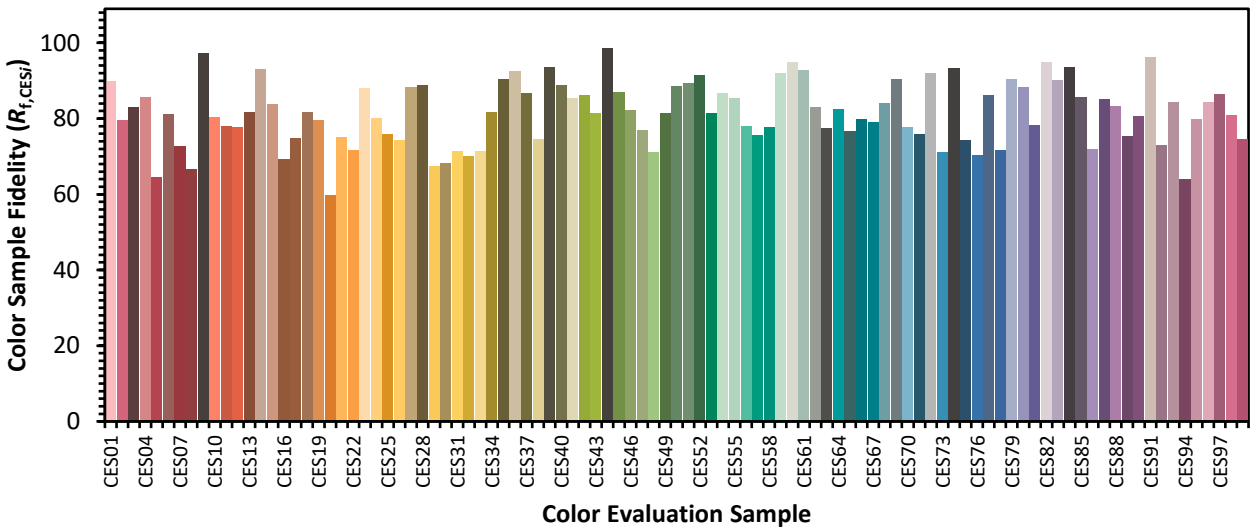
Individual Sample Fidelity Index ($R_{f,i}$)

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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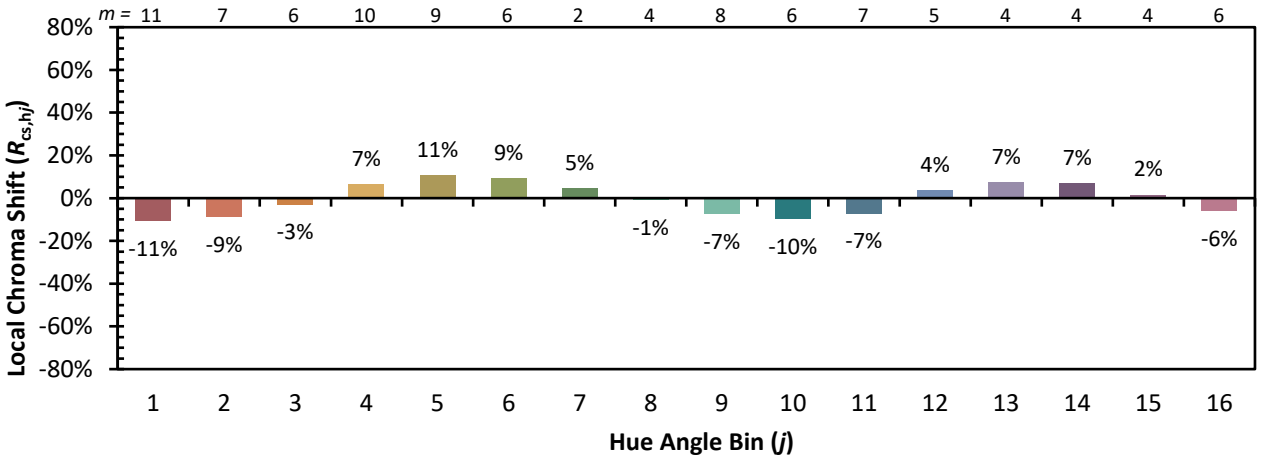
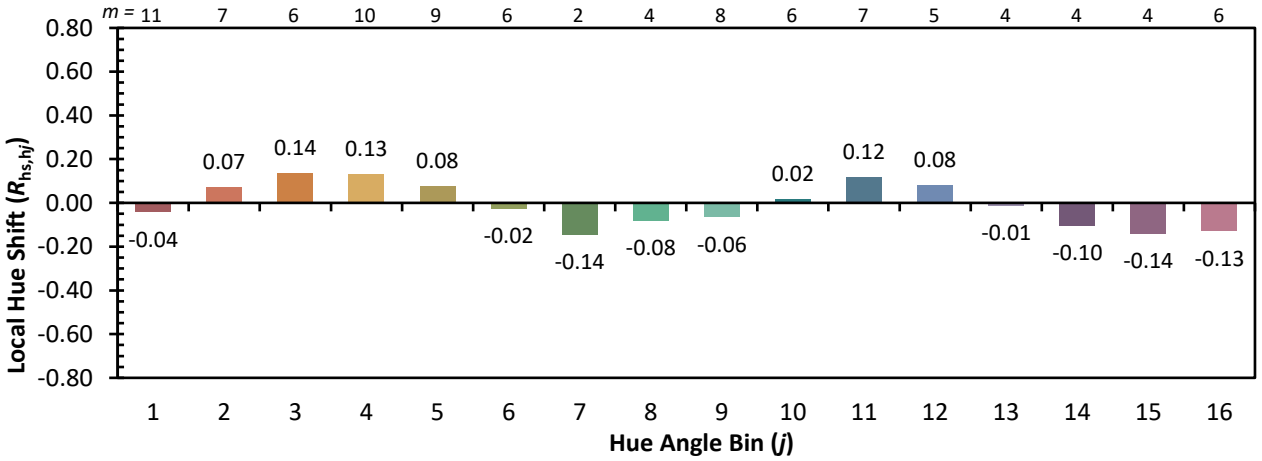
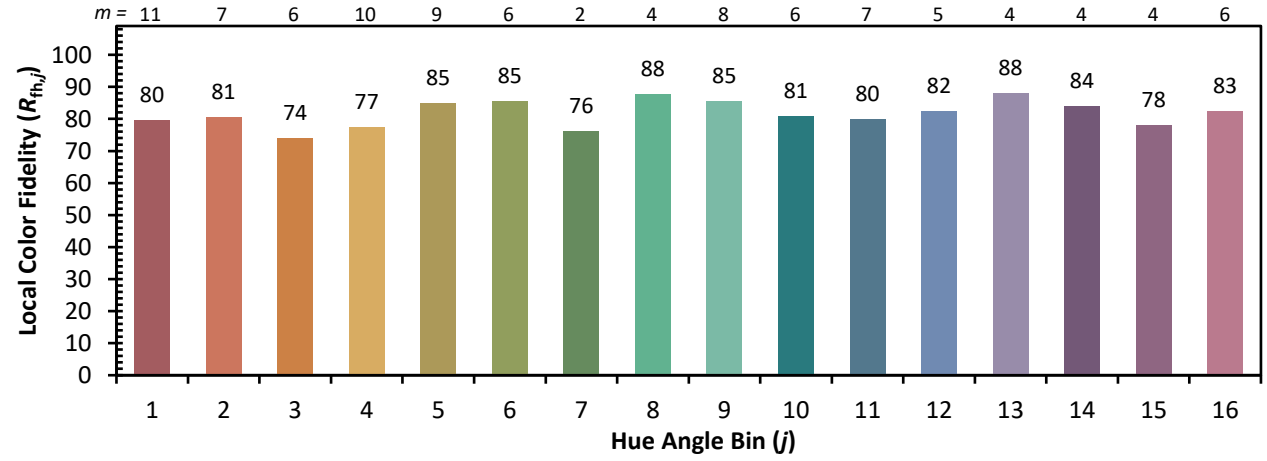
Color Rendition by Hue-Angle Bin







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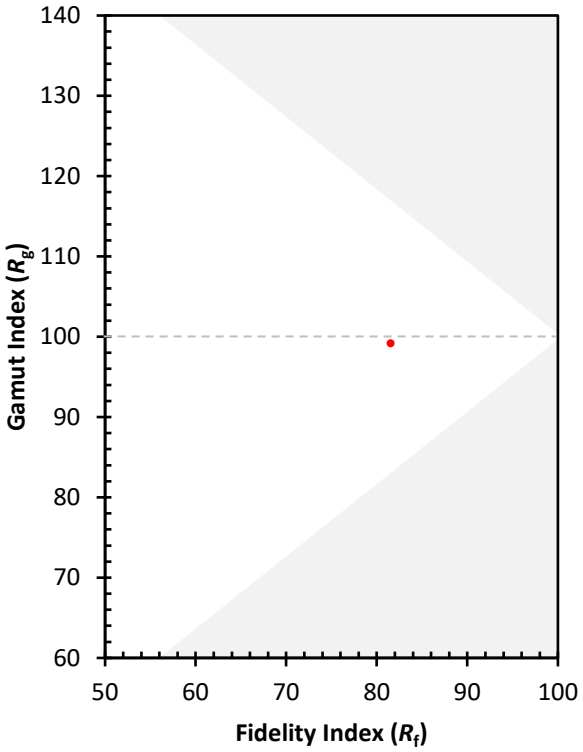
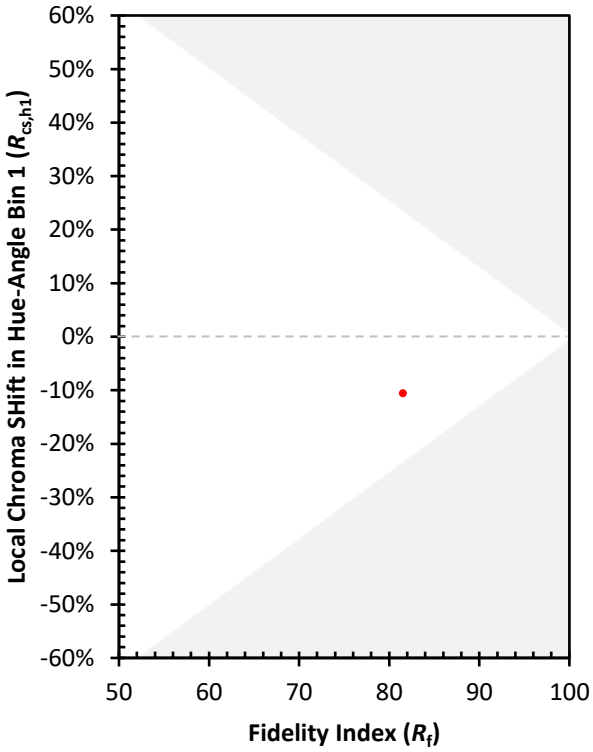
Measure Comparisons





(END OF REPORT)