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: P437778

Luminaire Tested: **ISC-SA1E-830-U-T4W**

Issue Date: 12/9/2020

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:	P437778
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-12)
Test Lab:	INNOVATION CENTER
Issue Date:	12/9/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISC-SA1E-830-U-T4W
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5701 lumens
Efficiency:	N/A
Efficacy:	98.0 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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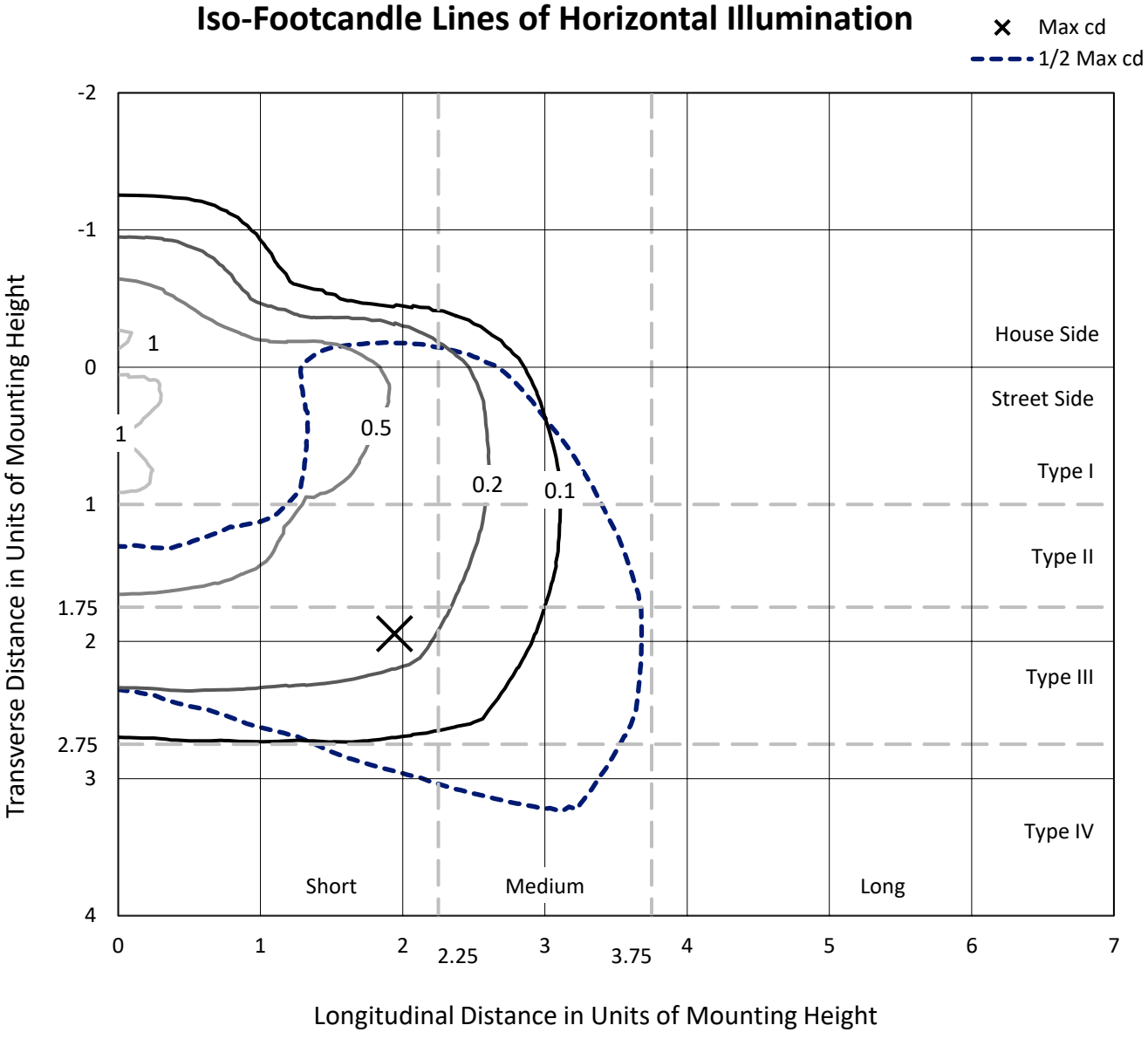
Scaled Data Report

REPORT NUMBER: P437778
CATALOG NUMBER: ISC-SA1E-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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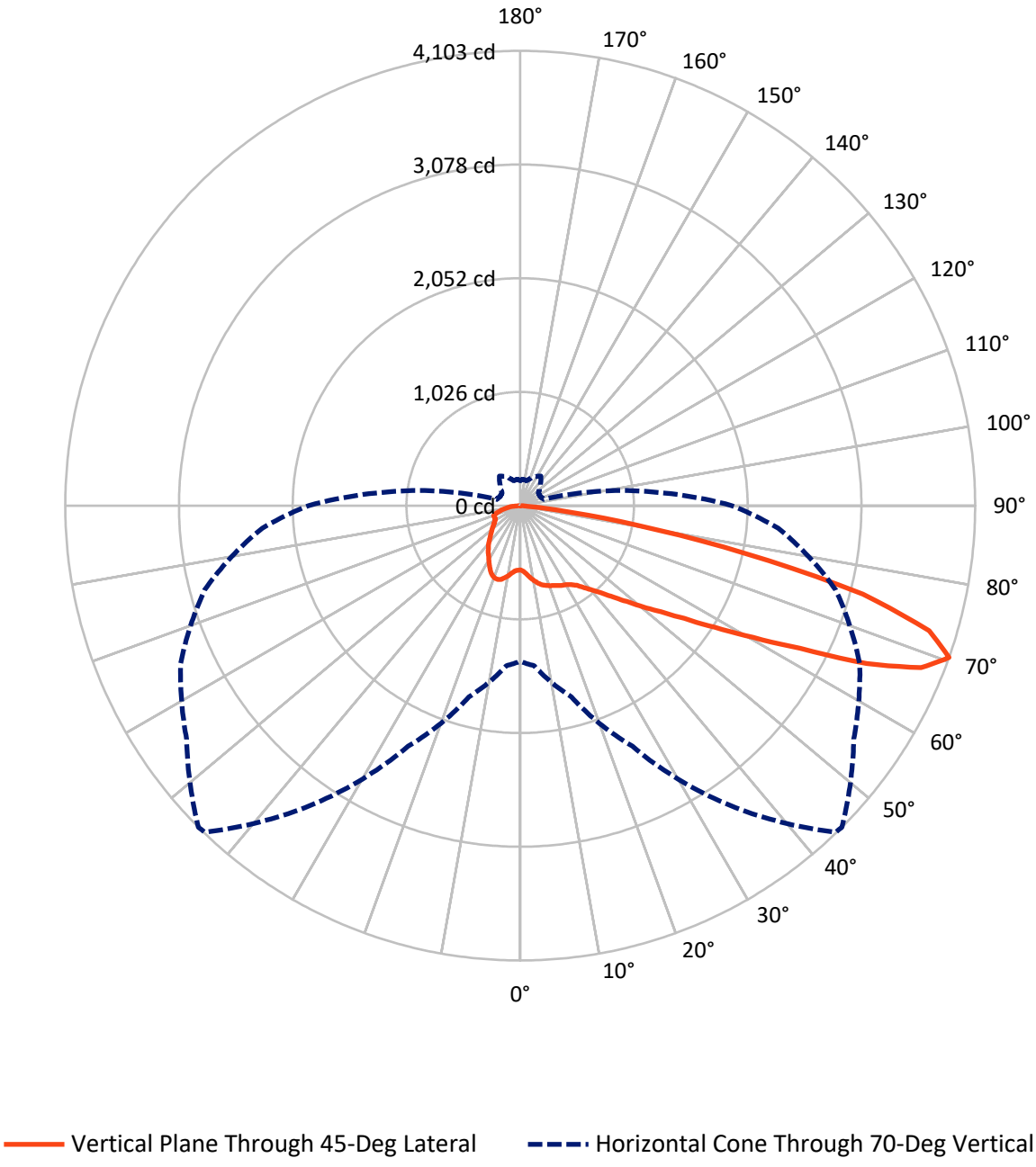
Luminous Intensity Polar Plot



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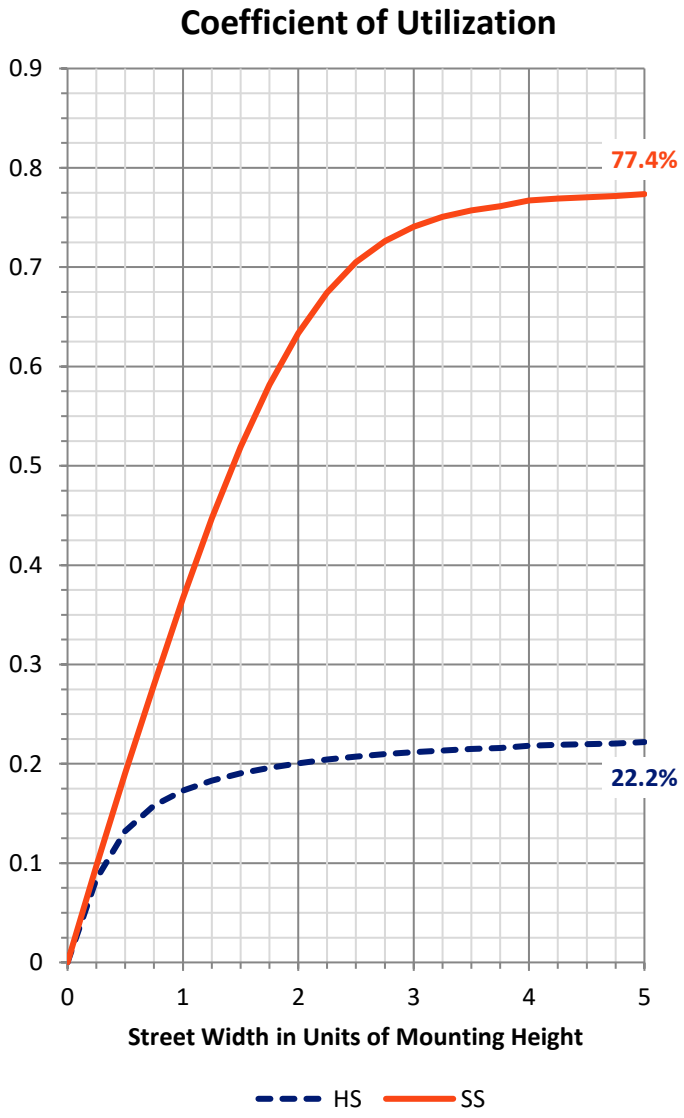
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1287.2	0.0	1287.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4413.8	0.0	4413.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	5701.0	0.0	5701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.0
10°-20°	200.3	3.5
20°-30°	339.1	5.9
30°-40°	490.3	8.6
40°-50°	707.0	12.4
50°-60°	1159.5	20.3
60°-70°	1661.2	29.1
70°-80°	987.3	17.3
80°-90°	96.7	1.7
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°	5701.0	100.0
0°-180°	5701.0	100.0



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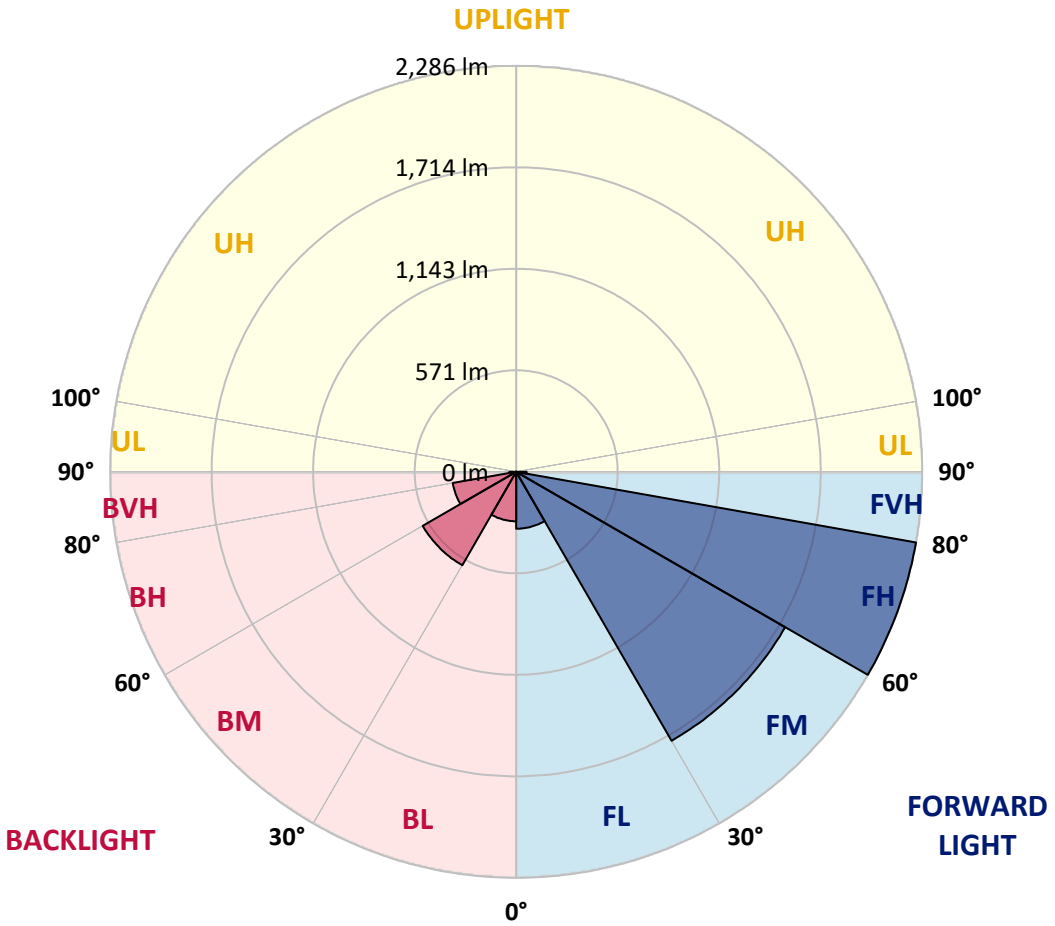
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	320.6	5.6			
FM	(30°-60°)	1749.1	30.7			
FH	(60°-80°)	2286.0	40.1			G2/5000
FVH	(80°-90°)	58.2	1.0			G1/100
BL	(0°-30°)	278.6	4.9	B1/500		
BM	(30°-60°)	607.6	10.7	B1/1000		
BH	(60°-80°)	362.5	6.4	B1/500		G1/500
BVH	(80°-90°)	38.5	0.7			G1/100
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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Scaled Data Report

REPORT NUMBER: P437778
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	580.3	580.3	580.3	580.3	580.3	580.3	*580.3*	580.3	580.3	580.3	580.3
2.5°	609.1	609.1	607.0	605.0	600.9	596.8	*594.7*	588.6	588.6	586.5	582.4
5°	654.2	650.1	648.0	639.8	633.7	623.4	*621.4*	607.0	598.8	592.7	588.6
7.5°	701.3	703.4	695.2	684.9	670.6	656.2	*656.2*	639.8	625.5	611.1	598.8
10°	746.5	746.5	736.2	723.9	709.5	691.1	*687.0*	668.5	652.1	633.7	619.3
12.5°	781.3	779.3	767.0	754.7	736.2	721.8	*717.7*	695.2	680.8	658.3	637.8
15°	805.9	805.9	793.6	775.2	756.7	742.4	*742.4*	725.9	705.4	682.9	658.3
17.5°	820.3	818.2	808.0	787.5	771.1	758.8	*756.7*	744.4	732.1	709.5	678.8
20°	820.3	816.2	808.0	791.6	777.2	769.0	*771.1*	760.8	752.6	725.9	701.3
22.5°	818.2	816.2	801.8	789.5	785.4	783.4	*781.3*	777.2	762.9	742.4	721.8
25°	836.7	834.6	818.2	801.8	793.6	793.6	*797.7*	789.5	781.3	760.8	742.4
27.5°	888.0	879.7	857.2	826.4	814.1	812.1	*814.1*	803.9	797.7	783.4	767.0
30°	974.1	970.0	935.1	877.7	844.9	828.5	*826.4*	824.4	816.2	805.9	791.6
32.5°	1086.9	1082.8	1029.5	955.6	885.9	849.0	*851.0*	840.8	840.8	826.4	814.1
35°	1226.3	1218.1	1164.8	1060.2	947.4	885.9	*881.8*	867.4	869.5	844.9	832.6
37.5°	1349.4	1341.2	1289.9	1166.8	1025.3	945.4	*939.2*	904.4	881.8	851.0	853.1
40°	1453.9	1456.0	1419.1	1296.0	1125.8	1011.0	*1000.7*	933.1	906.4	879.7	892.1
42.5°	1560.6	1566.7	1542.1	1410.9	1228.4	1082.8	*1078.7*	982.3	959.7	939.2	967.9
45°	1665.2	1677.5	1657.0	1533.9	1343.2	1191.5	*1175.0*	1062.3	1047.9	1035.6	1121.7
47.5°	1757.4	1761.5	1759.5	1663.1	1470.4	1314.5	*1291.9*	1166.8	1185.3	1218.1	1361.7
50°	1872.3	1878.4	1845.6	1792.3	1642.6	1453.9	*1433.4*	1298.1	1374.0	1480.6	1698.0
52.5°	2042.5	2050.7	1958.4	1925.6	1855.9	1622.1	*1591.3*	1490.9	1654.9	1814.9	2073.3
55°	2140.9	2128.6	2087.6	2091.7	2052.7	1823.1	*1796.4*	1726.7	1960.5	2151.2	2497.8
57.5°	2204.5	2198.3	2223.0	2278.3	2278.3	2081.5	*2071.2*	2040.4	2288.6	2518.3	2834.1
60°	2307.0	2319.3	2376.8	2487.5	2547.0	2419.8	*2413.7*	2419.8	2657.7	2774.6	3074.0
62.5°	2370.6	2397.3	2542.9	2733.6	2858.7	2873.0	*2834.1*	2830.0	2944.8	2987.9	3231.9
65°	2257.8	2300.9	2538.8	2848.4	3231.9	3463.6	*3434.9*	3186.8	3182.7	3180.6	3201.1
67.5°	1960.5	1993.3	2337.8	2797.2	3432.9	3916.8	*3900.4*	3504.6	3408.3	3197.0	2914.0
70°	*1404.7*	*1449.8*	*1786.2*	*2395.2*	*3303.7*	*4097.3*	*4103.4*	*3672.8*	*3379.6*	*2946.9*	*2335.7*
72.5°	869.5	871.5	1088.9	1706.2	2797.2	3832.8	*3857.4*	3506.7	3041.2	2454.7	1650.8
75°	268.6	291.2	461.4	894.1	1892.8	3117.1	*3192.9*	2914.0	2434.2	1698.0	904.4
77.5°	133.3	137.4	166.1	328.1	910.5	2017.9	*2075.3*	1946.1	1538.0	822.3	379.4
80°	75.9	80.0	102.5	145.6	348.6	1002.8	*1050.0*	1025.3	623.4	297.4	162.0
82.5°	36.9	39.0	51.3	73.8	147.7	299.4	*336.3*	369.1	237.9	157.9	88.2
85°	10.3	10.3	14.4	24.6	39.0	61.5	*61.5*	67.7	84.1	80.0	43.1
87.5°	0.0	0.0	0.0	2.1	2.1	2.1	*4.1*	2.1	4.1	6.2	6.2
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: P437778
CATALOG NUMBER: ISC-SA1E-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	582.4	582.4	578.3	580.3	580.3	582.4	582.4	584.4	586.5	588.6	588.6
5°	586.5	584.4	582.4	584.4	586.5	590.6	596.8	602.9	607.0	613.2	611.1
7.5°	598.8	592.7	594.7	594.7	602.9	611.1	623.4	631.6	639.8	643.9	643.9
10°	613.2	609.1	607.0	615.2	623.4	639.8	650.1	662.4	668.5	678.8	674.7
12.5°	633.7	623.4	625.5	635.7	652.1	664.4	672.6	682.9	689.0	697.2	695.2
15°	650.1	643.9	646.0	662.4	678.8	687.0	691.1	695.2	697.2	703.4	705.4
17.5°	670.6	668.5	670.6	684.9	695.2	697.2	695.2	691.1	689.0	695.2	693.1
20°	693.1	691.1	693.1	703.4	699.3	691.1	682.9	676.7	670.6	674.7	676.7
22.5°	711.6	713.6	715.7	711.6	695.2	674.7	660.3	650.1	646.0	650.1	654.2
25°	734.1	736.2	738.3	717.7	678.8	646.0	625.5	619.3	621.4	627.5	629.6
27.5°	762.9	769.0	762.9	715.7	656.2	609.1	592.7	590.6	592.7	598.8	605.0
30°	793.6	801.8	781.3	705.4	625.5	572.1	557.8	557.8	563.9	568.0	574.2
32.5°	820.3	836.7	797.7	687.0	582.4	537.3	527.0	522.9	522.9	527.0	529.1
35°	853.1	873.6	808.0	654.2	541.4	508.6	500.4	488.1	477.8	479.9	477.8
37.5°	885.9	916.7	803.9	602.9	496.3	475.8	467.6	449.1	432.7	422.4	426.5
40°	947.4	984.3	795.7	537.3	455.3	447.1	432.7	412.2	391.7	373.2	371.2
42.5°	1056.1	1058.2	777.2	477.8	416.3	412.2	399.9	381.4	356.8	332.2	332.2
45°	1201.7	1164.8	752.6	422.4	379.4	383.5	373.2	354.8	326.1	303.5	303.5
47.5°	1421.1	1291.9	705.4	373.2	348.6	356.8	350.7	332.2	301.5	280.9	280.9
50°	1728.7	1499.1	658.3	338.4	326.1	334.3	332.2	309.7	280.9	264.5	264.5
52.5°	2085.6	1769.8	625.5	311.7	299.4	313.8	313.8	293.2	266.6	254.3	252.2
55°	2452.6	2024.0	592.7	289.1	280.9	293.2	299.4	280.9	256.3	246.1	244.0
57.5°	2713.1	2151.2	547.5	270.7	260.4	276.8	285.0	272.7	250.2	239.9	237.9
60°	2844.3	2163.5	459.4	252.2	242.0	262.5	276.8	266.6	250.2	246.1	246.1
62.5°	2875.1	2112.2	367.1	235.8	229.7	254.3	278.9	274.8	262.5	266.6	268.6
65°	2743.8	1942.0	299.4	223.5	221.5	252.2	291.2	289.1	264.5	274.8	276.8
67.5°	2430.1	1646.7	254.3	211.2	209.2	256.3	313.8	289.1	250.2	260.4	256.3
70°	*1909.2*	*1304.2*	*219.4*	*198.9*	*198.9*	*254.3*	*326.1*	*285.0*	*233.8*	*237.9*	*225.6*
72.5°	1255.0	855.1	194.8	186.6	180.5	231.7	317.9	276.8	225.6	213.3	198.9
75°	635.7	424.5	174.3	176.4	157.9	196.9	307.6	274.8	223.5	203.0	196.9
77.5°	262.5	198.9	155.9	160.0	133.3	168.2	289.1	254.3	201.0	180.5	174.3
80°	137.4	123.0	131.2	133.3	108.7	133.3	229.7	219.4	180.5	166.1	157.9
82.5°	80.0	77.9	100.5	102.5	75.9	108.7	203.0	190.7	151.8	135.3	131.2
85°	36.9	43.1	67.7	61.5	47.2	71.8	123.0	94.3	67.7	59.5	57.4
87.5°	4.1	6.2	14.4	14.4	10.3	6.2	2.1	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

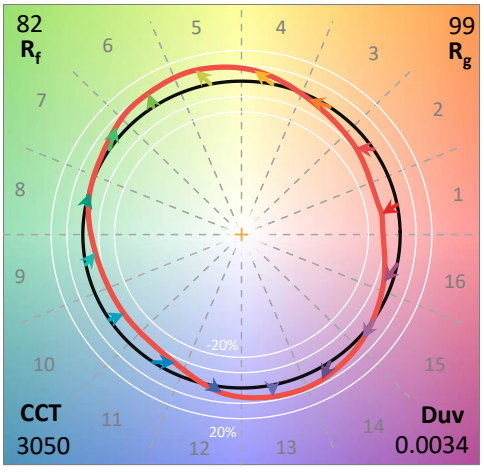
Test Information

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

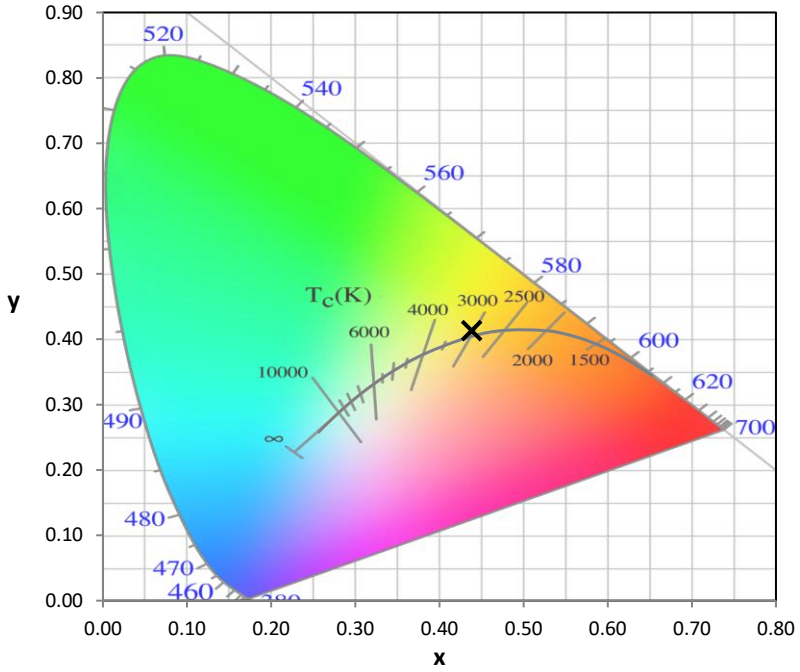
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

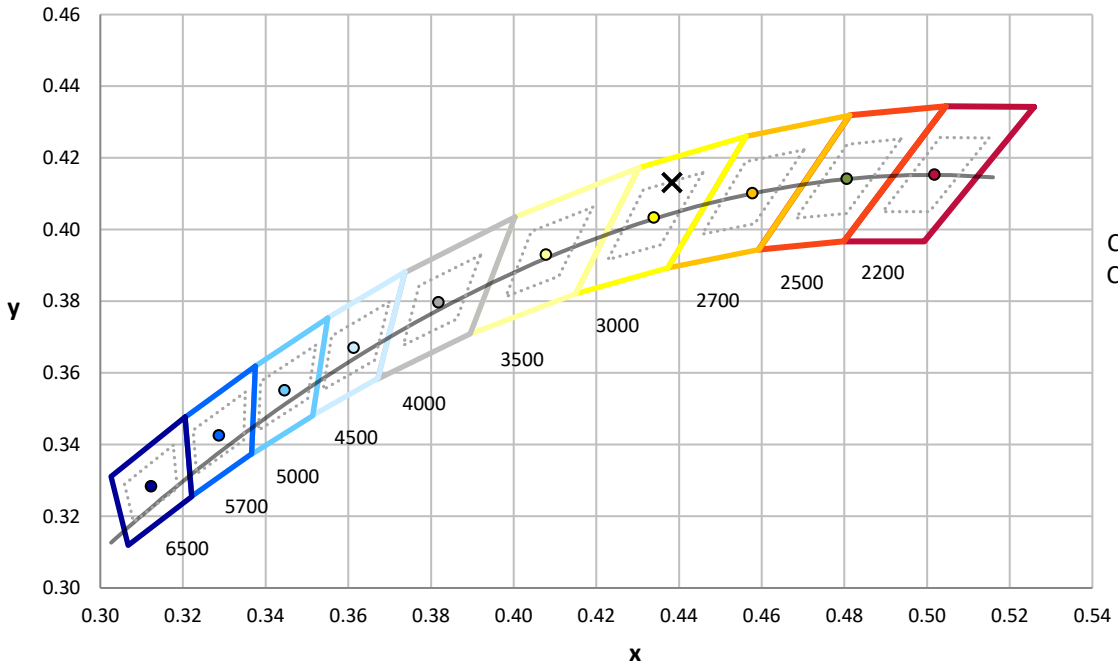
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

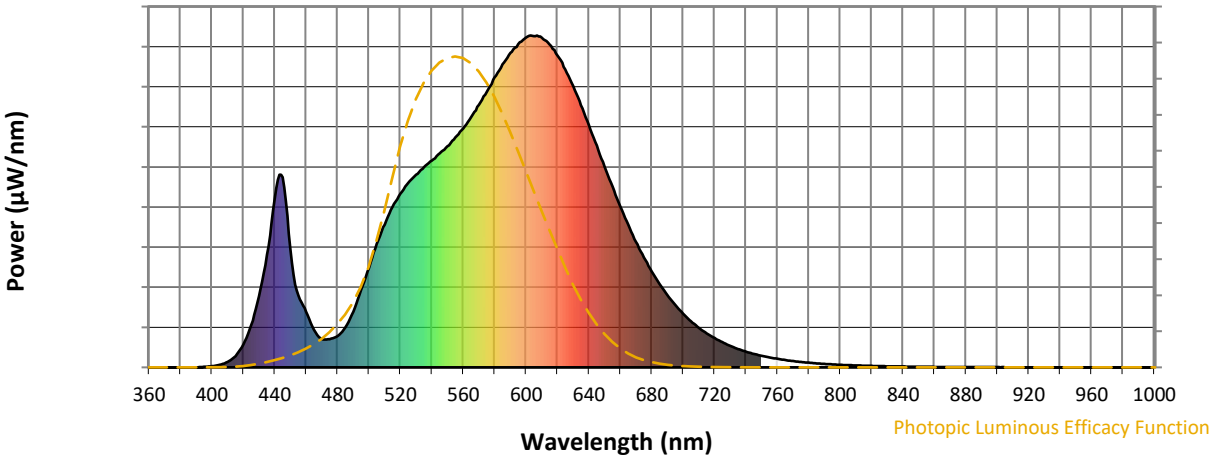


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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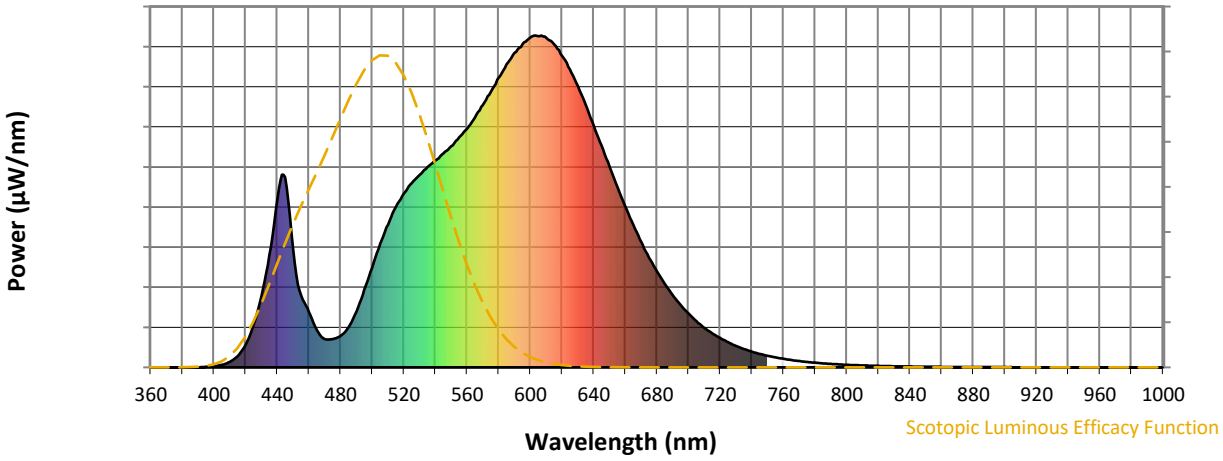
Scotopic Flux vs. Wavelength



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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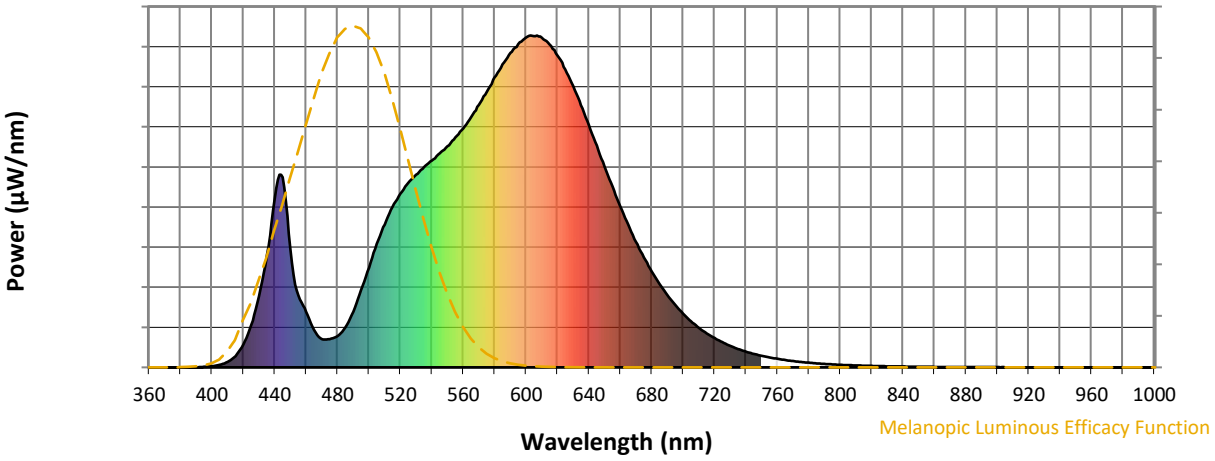
Melanopic Flux vs. Wavelength



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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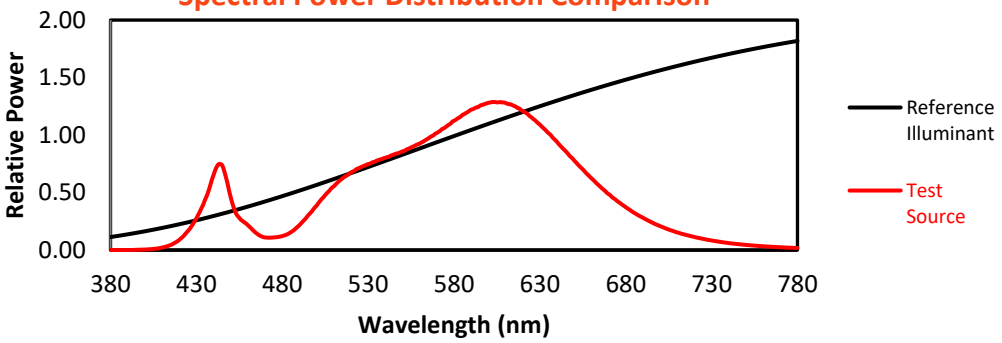
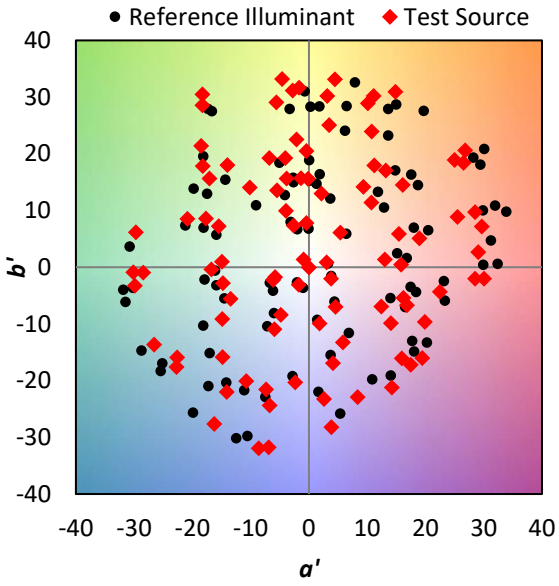
Summary

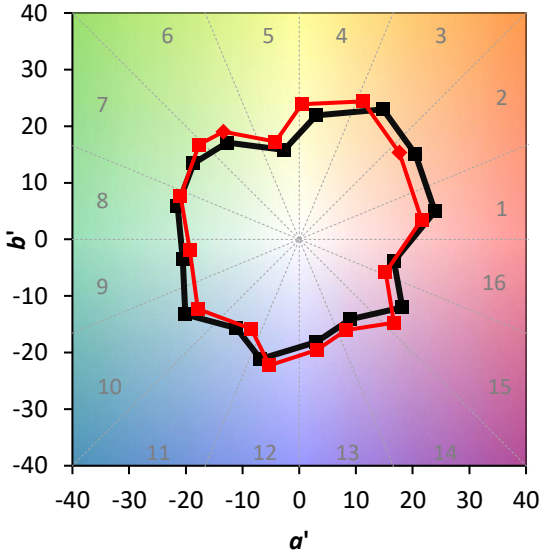
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

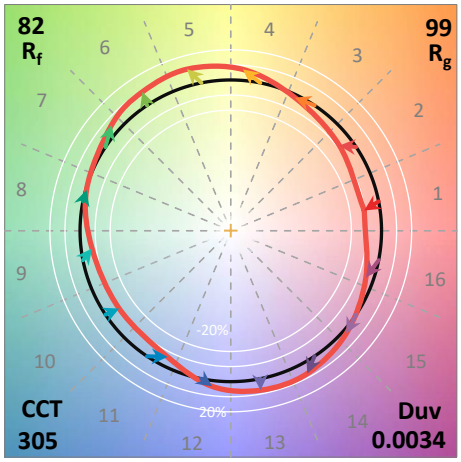
Spectral Power Distribution Comparison

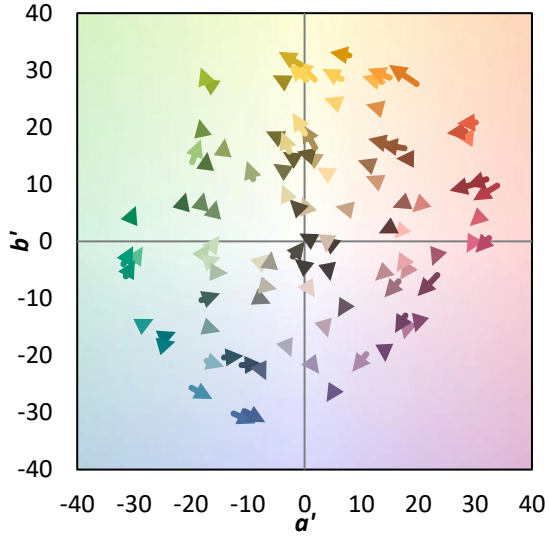


Color Vector Graphics









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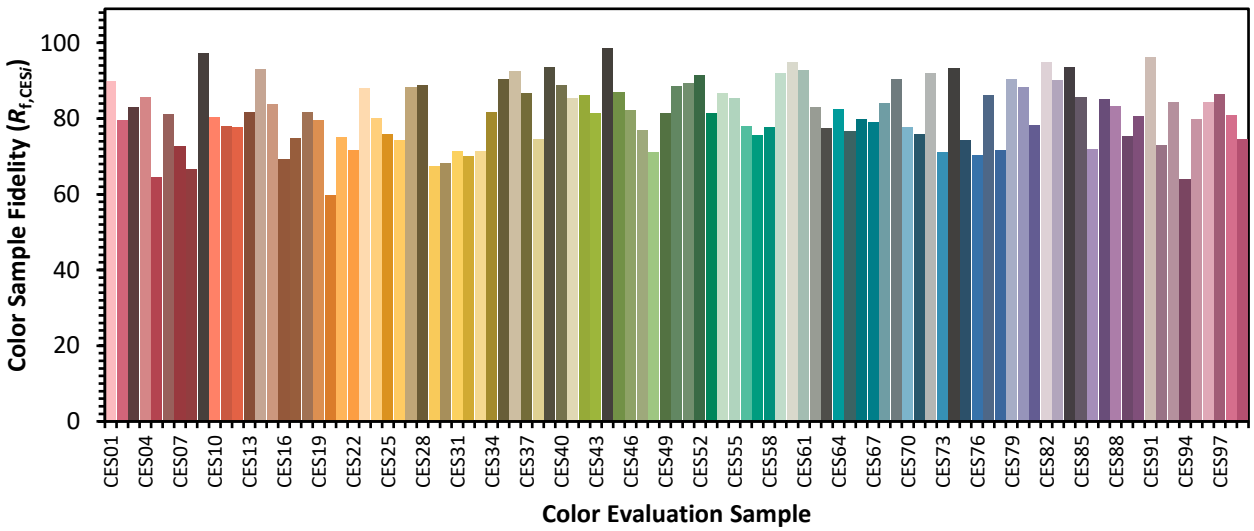
Individual Sample Fidelity Index ($R_{f,i}$)

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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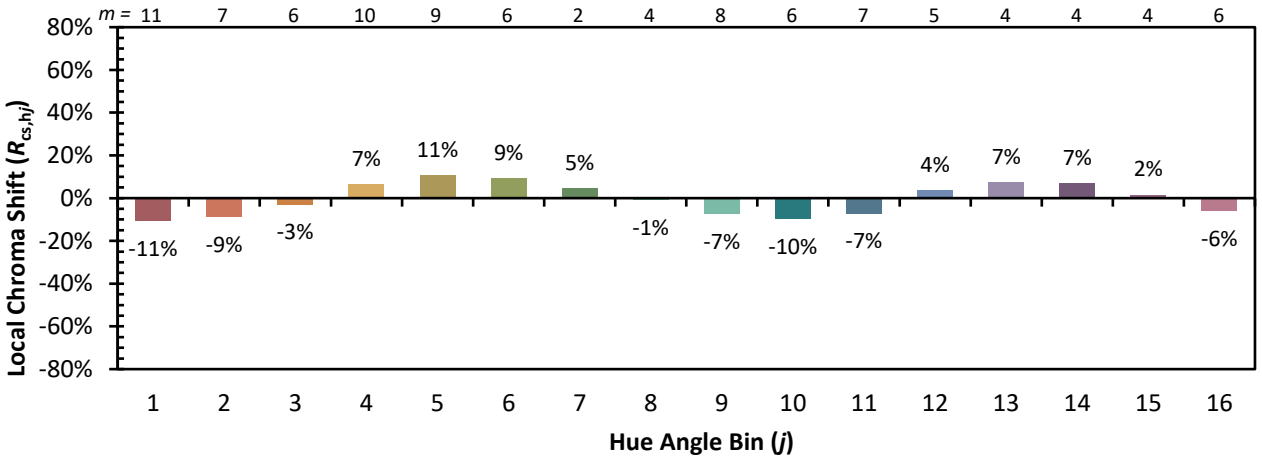
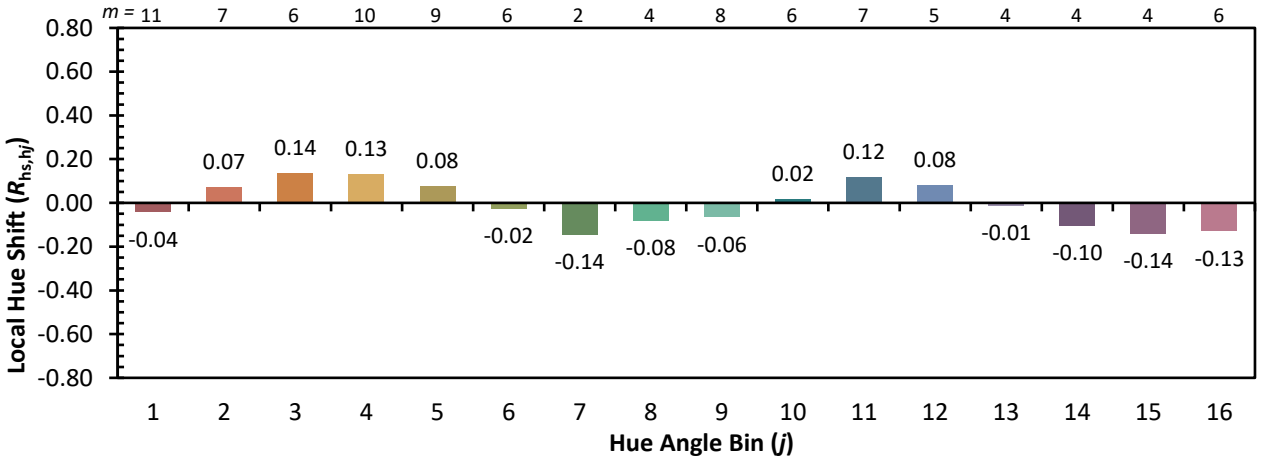
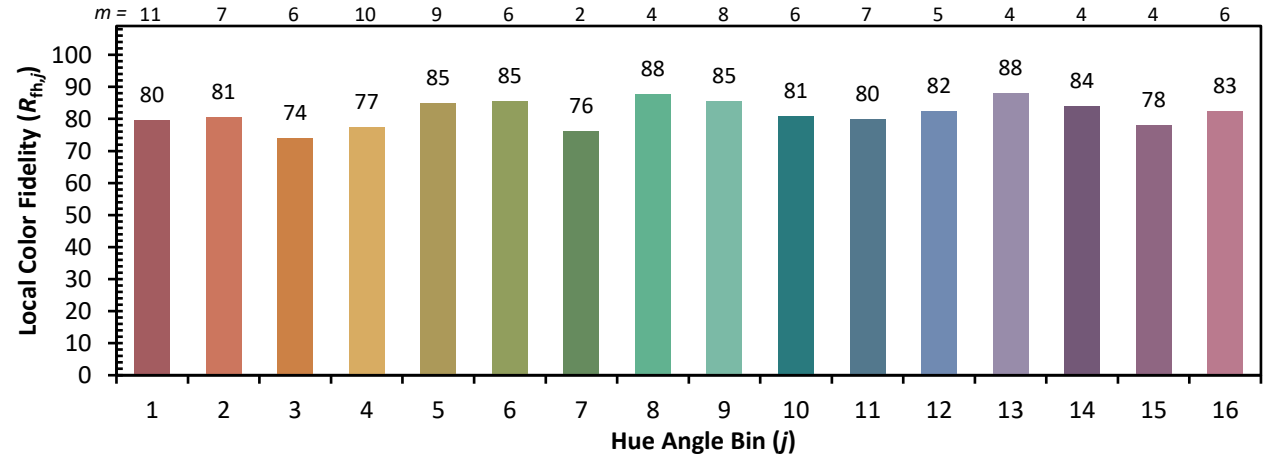
Color Rendition by Hue-Angle Bin







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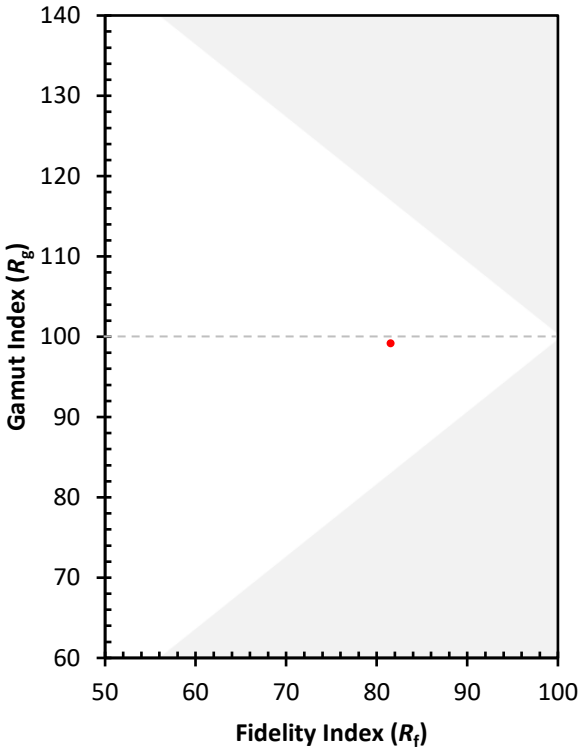
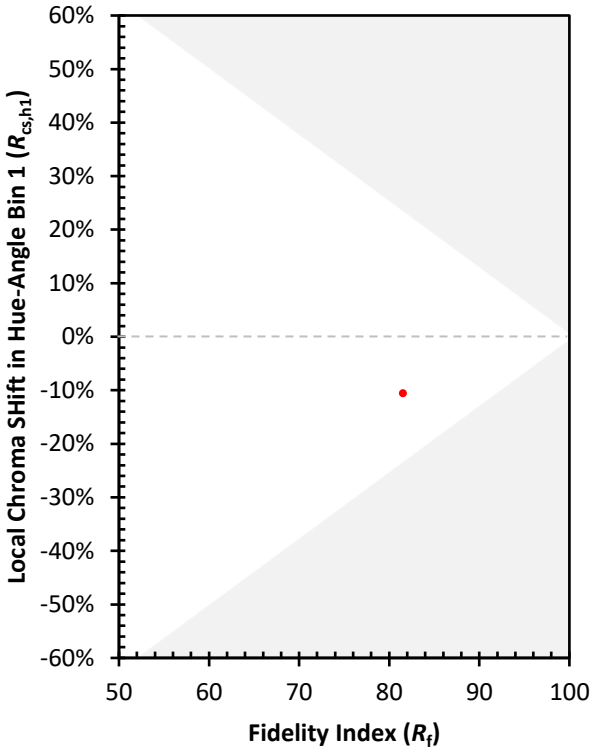
Measure Comparisons





(END OF REPORT)