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: P437764

Luminaire Tested: **ISC-SA1E-830-U-SL3**

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:	P437764
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-16)
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-SL3
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5629 lumens
Efficiency:	N/A
Efficacy:	96.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
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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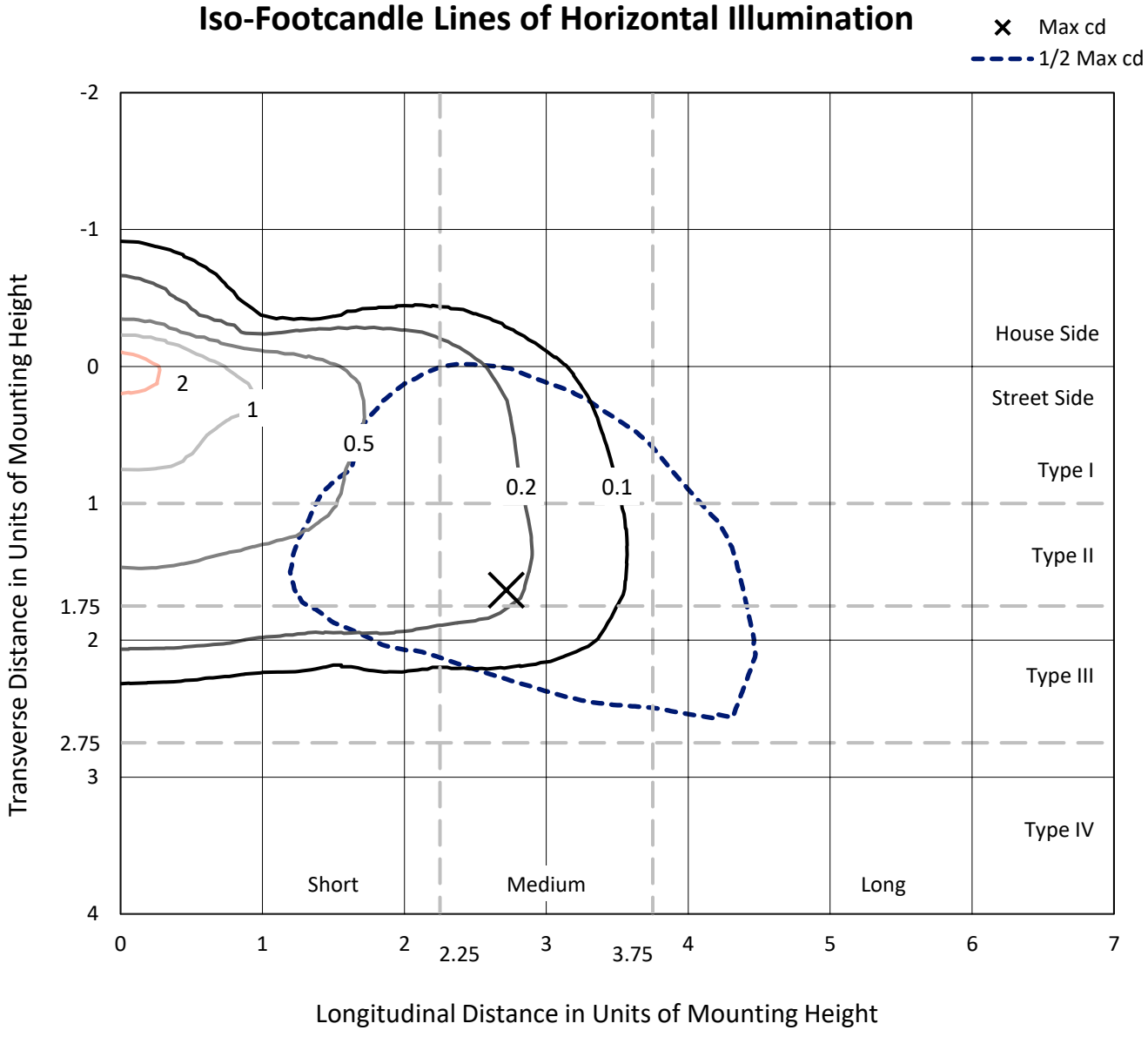
Scaled Data Report

REPORT NUMBER: P437764
CATALOG NUMBER: ISC-SA1E-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Medium - N/A

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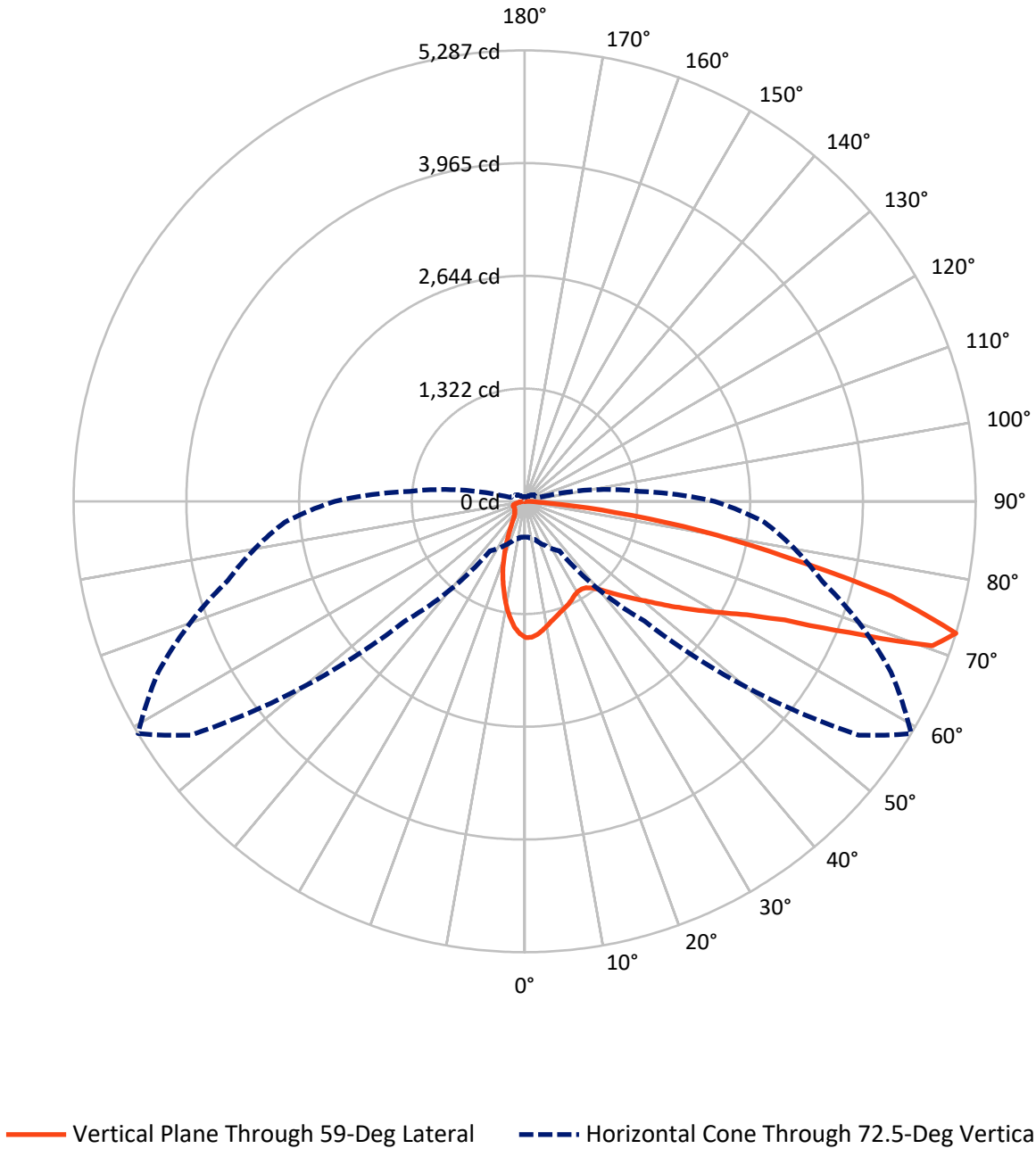
Luminous Intensity Polar Plot



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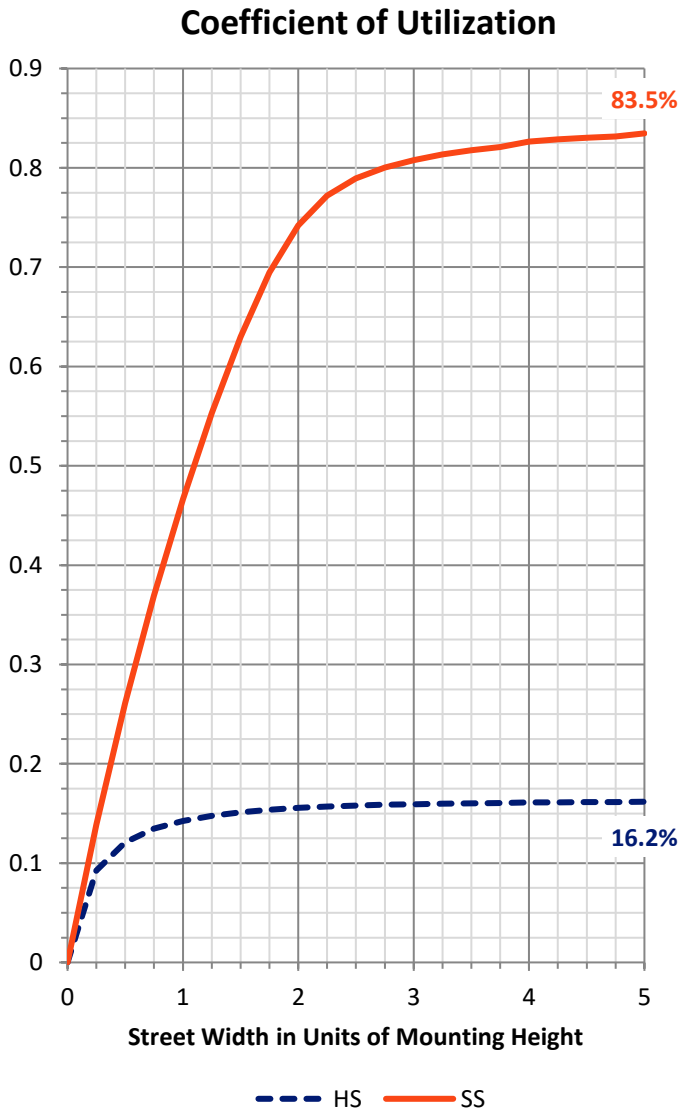
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.8	0.0	918.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	4710.2	0.0	4710.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	5629.0	0.0	5629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	2.4
10°-20°	308.1	5.5
20°-30°	397.0	7.1
30°-40°	507.9	9.0
40°-50°	704.8	12.5
50°-60°	1038.8	18.5
60°-70°	1397.7	24.8
70°-80°	1016.8	18.1
80°-90°	120.9	2.1
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°	5629.0	100.0
0°-180°	5629.0	100.0



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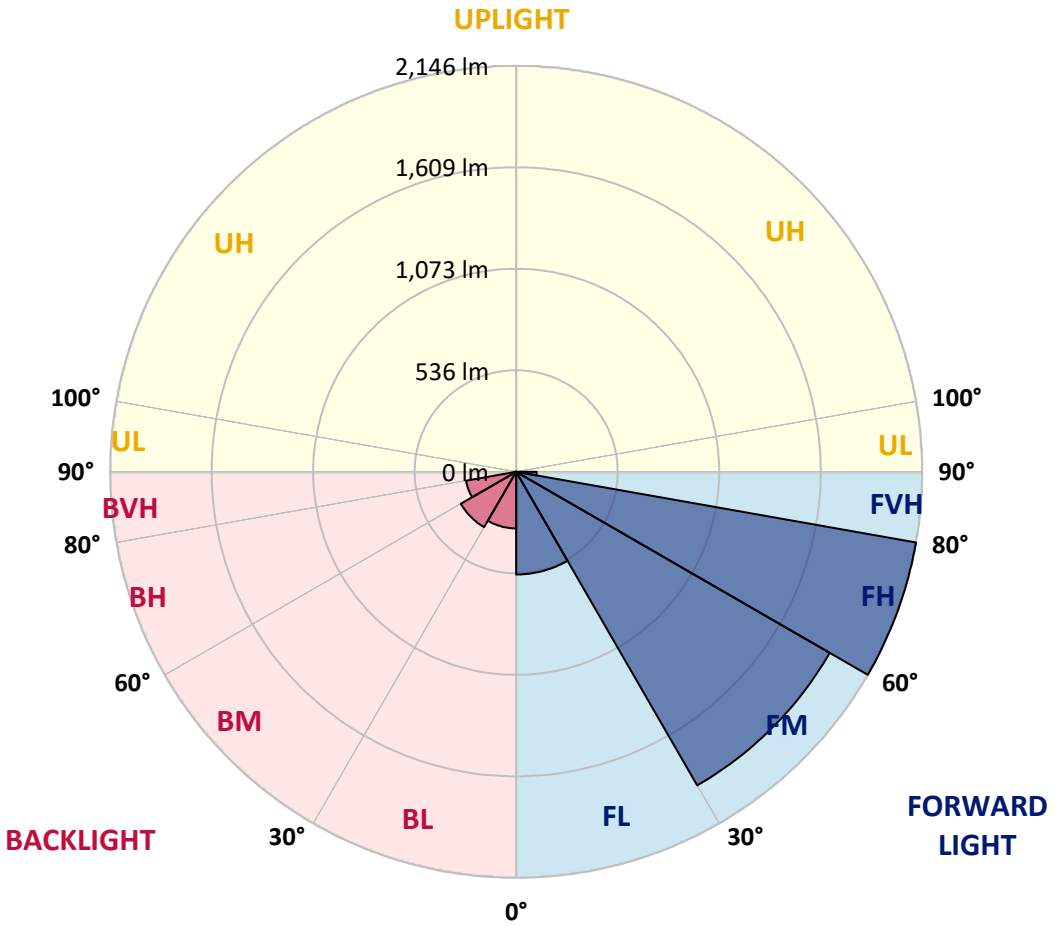
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	542.9	9.6			
FM	(30°-60°)	1913.6	34.0			
FH	(60°-80°)	2145.8	38.1			G2/5000
FVH	(80°-90°)	107.9	1.9			G2/225
BL	(0°-30°)	299.3	5.3	B1/500		
BM	(30°-60°)	337.8	6.0	B1/1000		
BH	(60°-80°)	268.7	4.8	B1/500		G1/500
BVH	(80°-90°)	13.0	0.2			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 III Medium



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REPORT NUMBER: P437764
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	*1597.6*	1597.6	1597.6	1597.6
2.5°	1589.4	1589.4	1595.6	1599.7	1593.5	1599.7	1597.6	*1595.6*	1597.6	1597.6	1593.5
5°	1523.8	1532.0	1532.0	1534.0	1548.4	1558.6	1562.7	*1566.8*	1568.9	1570.9	1566.8
7.5°	1443.8	1447.9	1452.0	1470.5	1478.7	1501.2	1515.6	*1523.8*	1532.0	1536.1	1523.8
10°	1355.6	1361.8	1374.1	1388.4	1408.9	1439.7	1464.3	*1478.7*	1491.0	1497.1	1482.8
12.5°	1281.8	1283.8	1296.1	1318.7	1343.3	1386.4	1417.1	*1433.5*	1449.9	1462.3	1445.8
15°	1214.1	1216.1	1226.4	1253.1	1281.8	1328.9	1374.1	*1398.7*	1421.2	1441.7	1419.2
17.5°	1160.8	1166.9	1171.0	1193.6	1228.5	1279.7	1339.2	*1363.8*	1398.7	1429.4	1400.7
20°	1130.0	1128.0	1130.0	1144.4	1181.3	1232.6	1302.3	*1337.1*	1378.2	1421.2	1382.3
22.5°	1111.6	1115.7	1113.6	1119.8	1142.3	1193.6	1263.3	*1312.5*	1359.7	1415.1	1365.9
25°	1111.6	1117.7	1115.7	1113.6	1121.8	1156.7	1230.5	*1279.7*	1339.2	1415.1	1347.4
27.5°	1132.1	1134.1	1130.0	1123.9	1123.9	1136.2	1201.8	*1246.9*	1328.9	1413.0	1337.1
30°	1150.5	1154.6	1154.6	1150.5	1144.4	1138.2	1181.3	*1228.5*	1318.7	1425.3	1328.9
32.5°	1175.1	1179.2	1187.4	1191.5	1183.3	1164.9	1187.4	*1226.4*	1320.7	1452.0	1331.0
35°	1205.9	1210.0	1222.3	1242.8	1236.7	1205.9	1210.0	*1244.9*	1337.1	1480.7	1339.2
37.5°	1230.5	1236.7	1263.3	1298.2	1300.2	1267.4	1265.4	*1290.0*	1367.9	1525.8	1367.9
40°	1255.1	1263.3	1302.3	1359.7	1372.0	1353.6	1341.3	*1359.7*	1423.3	1591.5	1415.1
42.5°	1287.9	1296.1	1347.4	1419.2	1449.9	1441.7	1433.5	*1460.2*	1507.4	1679.6	1488.9
45°	1322.8	1339.2	1404.8	1484.8	1540.2	1546.3	1554.5	*1570.9*	1607.9	1802.7	1593.5
47.5°	1386.4	1400.7	1476.6	1558.6	1630.4	1663.2	1677.6	*1698.1*	1720.7	1915.5	1720.7
50°	1472.5	1501.2	1568.9	1648.9	1733.0	1796.5	1833.5	*1833.5*	1858.1	2050.8	1860.1
52.5°	1601.7	1628.4	1669.4	1745.3	1845.8	1946.2	1997.5	*2005.7*	1997.5	2180.0	2001.6
55°	1710.4	1737.1	1776.0	1831.4	1958.6	2114.4	2202.6	*2196.5*	2167.7	2317.5	2141.1
57.5°	1831.4	1851.9	1886.8	1931.9	2073.4	2288.7	2417.9	*2411.8*	2358.5	2456.9	2292.8
60°	1882.7	1911.4	1975.0	2067.2	2251.8	2512.3	2664.0	*2645.6*	2526.6	2606.6	2428.2
62.5°	1728.9	1782.2	1911.4	2098.0	2459.0	2885.5	2986.0	*2926.6*	2764.5	2770.7	2610.7
65°	1382.3	1353.6	1550.4	1860.1	2475.4	3347.0	3478.2	*3349.0*	3061.9	2979.9	2817.9
67.5°	789.6	801.9	896.2	1230.5	2038.5	3535.7	4331.4	*4103.7*	3527.4	3306.0	3068.1
70°	535.3	547.6	588.6	730.1	1171.0	3160.3	5026.6	*5071.7*	4247.3	3595.1	3076.3
72.5°	*418.4*	*420.4*	*463.5*	*574.2*	*709.6*	*1985.2*	*4778.5*	*5287.1*	*4739.5*	*3605.4*	*2822.0*
75°	319.9	322.0	360.9	490.2	637.8	961.8	3638.2	*4433.9*	4446.2	3316.2	2305.1
77.5°	203.0	213.3	258.4	391.7	598.8	637.8	2317.5	*3123.4*	3205.5	2456.9	1205.9
80°	98.4	102.5	129.2	250.2	527.1	564.0	1380.2	*2077.5*	1800.6	957.7	367.1
82.5°	41.0	43.1	61.5	108.7	336.3	477.8	691.1	*1068.5*	695.2	260.5	118.9
85°	8.2	10.3	14.4	26.7	108.7	233.8	283.0	*276.9*	168.2	80.0	45.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.1	4.1	*4.1*	4.1	4.1	4.1
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: ISC-SA1E-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6
2.5°	1591.5	1591.5	1575.0	1562.7	1548.4	1538.1	1527.9	1515.6	1513.5	1519.7	1525.8
5°	1558.6	1550.4	1523.8	1499.2	1470.5	1437.6	1417.1	1390.5	1376.1	1382.3	1378.2
7.5°	1515.6	1503.3	1454.0	1413.0	1355.6	1304.3	1269.5	1230.5	1203.8	1193.6	1187.4
10°	1470.5	1445.8	1380.2	1306.4	1230.5	1154.6	1091.0	1029.5	998.8	996.7	963.9
12.5°	1427.4	1394.6	1302.3	1195.6	1091.0	988.5	894.2	826.5	742.4	717.8	726.0
15°	1392.5	1347.4	1218.2	1082.8	947.5	818.3	695.2	594.7	520.9	494.3	484.0
17.5°	1359.7	1296.1	1140.3	978.3	808.0	646.0	496.3	420.4	375.3	358.9	358.9
20°	1322.8	1249.0	1056.2	861.4	654.2	479.9	367.1	330.2	315.8	313.8	311.7
22.5°	1294.1	1201.8	970.0	738.3	510.7	365.1	303.5	287.1	287.1	289.2	289.2
25°	1259.2	1148.5	877.8	607.0	393.8	293.3	268.7	262.5	268.7	274.8	274.8
27.5°	1234.6	1101.3	793.7	484.0	305.6	254.3	242.0	244.1	252.3	260.5	260.5
30°	1214.1	1056.2	705.5	381.5	254.3	225.6	223.5	227.6	235.8	244.1	242.0
32.5°	1193.6	1021.3	609.1	301.5	219.4	207.1	205.1	211.2	217.4	219.4	223.5
35°	1185.4	992.6	512.7	248.2	198.9	192.8	192.8	194.8	196.9	198.9	198.9
37.5°	1191.5	970.0	426.6	211.2	186.6	184.6	182.5	180.5	180.5	180.5	182.5
40°	1216.1	961.8	352.7	190.7	176.4	176.4	172.3	166.1	164.1	166.1	164.1
42.5°	1265.4	978.3	291.2	178.4	168.2	166.1	160.0	155.9	153.8	153.8	151.8
45°	1343.3	1007.0	250.2	170.2	162.0	155.9	149.7	145.6	143.6	145.6	145.6
47.5°	1445.8	1060.3	221.5	162.0	155.9	145.6	137.4	135.4	135.4	139.5	139.5
50°	1568.9	1132.1	205.1	157.9	149.7	137.4	129.2	127.2	129.2	133.3	135.4
52.5°	1700.1	1222.3	201.0	155.9	143.6	129.2	123.1	121.0	123.1	127.2	129.2
55°	1831.4	1320.7	211.2	155.9	137.4	123.1	118.9	112.8	114.8	118.9	121.0
57.5°	1970.9	1427.4	242.0	151.8	133.3	118.9	112.8	106.6	106.6	110.7	110.7
60°	2120.6	1548.4	299.4	151.8	129.2	114.8	104.6	98.4	98.4	98.4	100.5
62.5°	2286.7	1694.0	367.1	153.8	131.3	110.7	96.4	88.2	88.2	90.2	88.2
65°	2532.8	1911.4	385.6	155.9	135.4	106.6	90.2	82.0	80.0	80.0	80.0
67.5°	2684.6	1936.0	299.4	151.8	141.5	106.6	84.1	73.8	71.8	69.7	69.7
70°	2573.8	1700.1	213.3	145.6	141.5	106.6	80.0	67.7	63.6	59.5	59.5
72.5°	*2227.2*	*1349.5*	*174.3*	*137.4*	*131.3*	*100.5*	*73.8*	*61.5*	*55.4*	*51.3*	*51.3*
75°	1784.2	957.7	147.7	127.2	110.7	80.0	61.5	51.3	47.2	45.1	45.1
77.5°	869.6	471.7	114.8	110.7	88.2	59.5	49.2	43.1	41.0	36.9	36.9
80°	254.3	174.3	86.1	88.2	55.4	41.0	36.9	34.9	32.8	28.7	30.8
82.5°	116.9	98.4	61.5	55.4	34.9	24.6	24.6	22.6	20.5	18.5	18.5
85°	47.2	49.2	32.8	26.7	16.4	12.3	10.3	10.3	8.2	8.2	8.2
87.5°	4.1	6.2	6.2	4.1	4.1	2.1	0.0	0.0	0.0	2.1	2.1
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

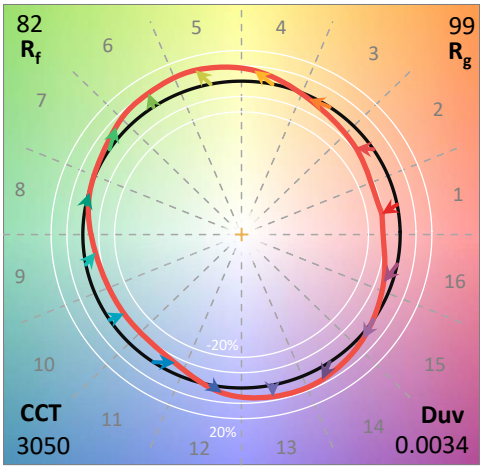
Test Information

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

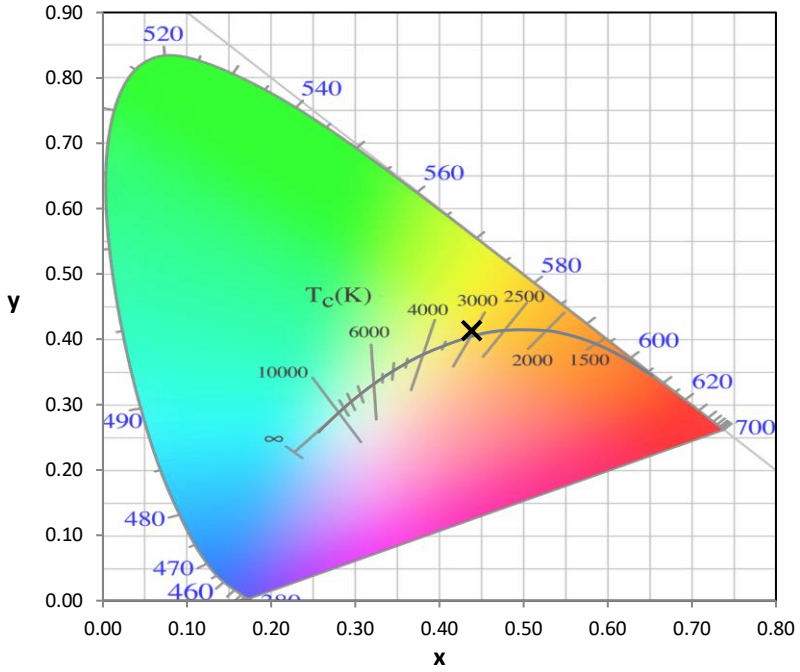
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

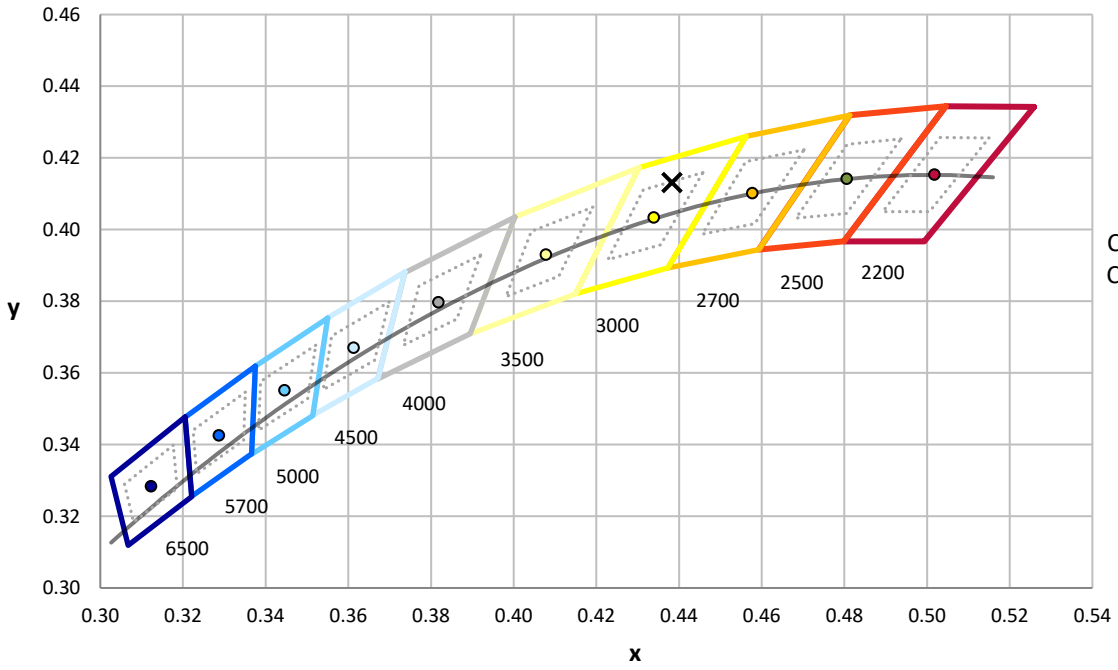
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

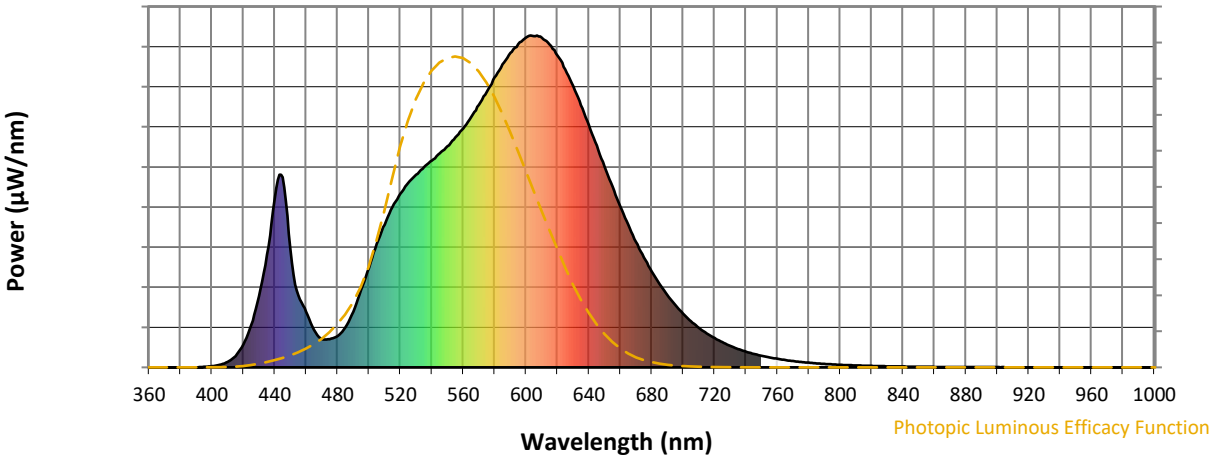


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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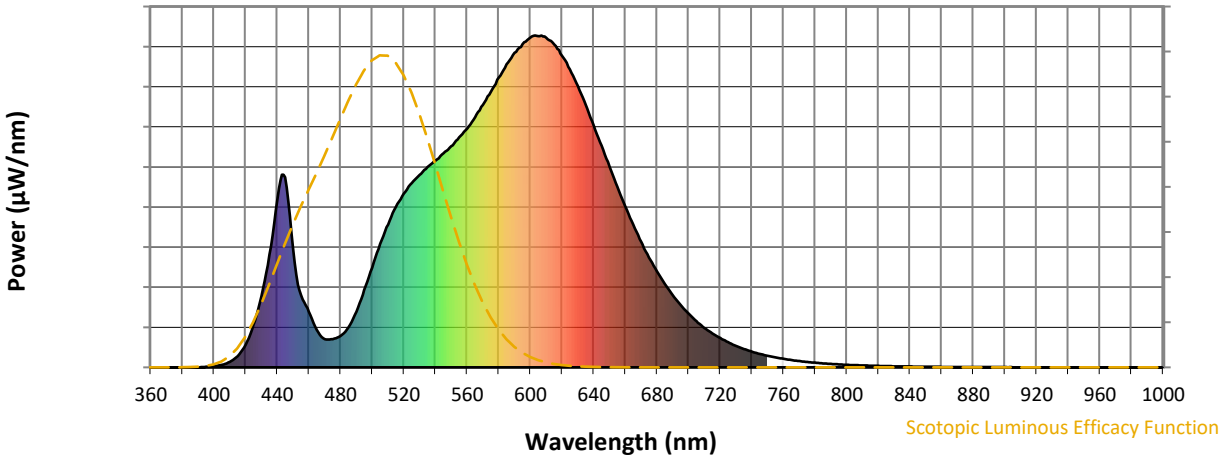
Scotopic Flux vs. Wavelength



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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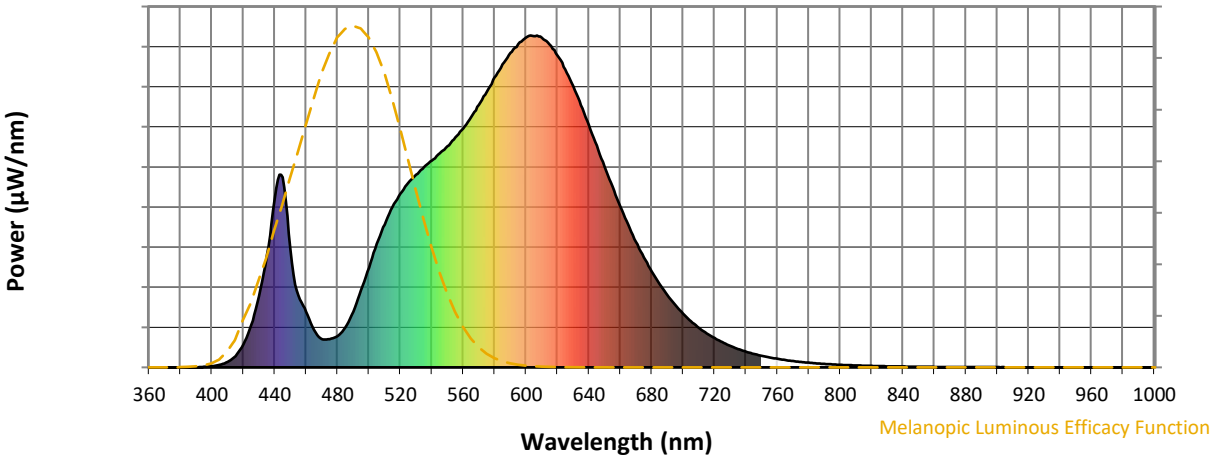
Melanopic Flux vs. Wavelength



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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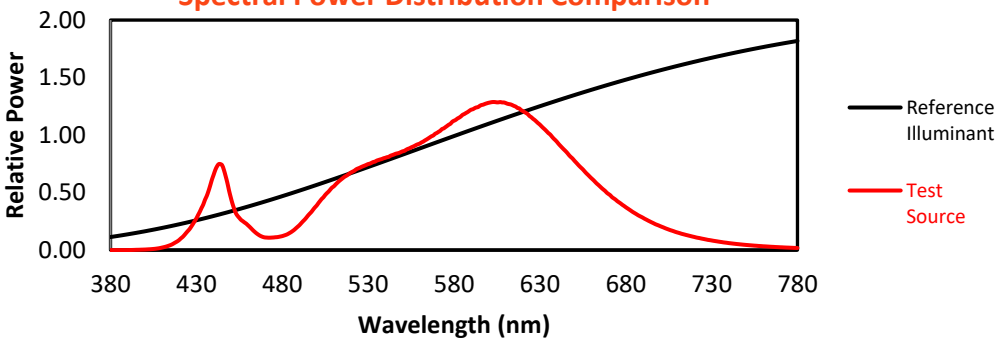
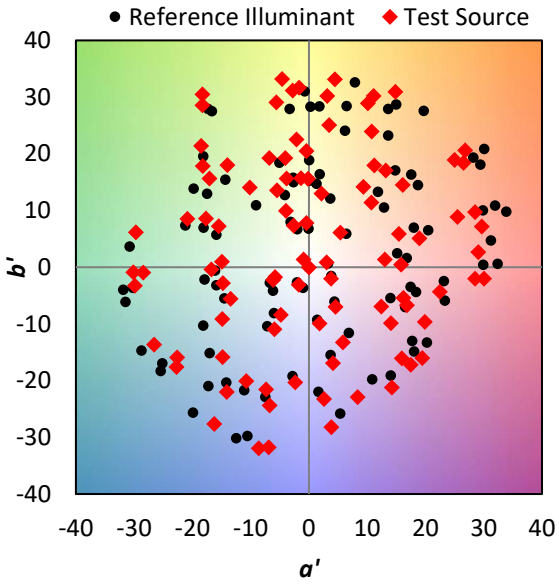
Summary

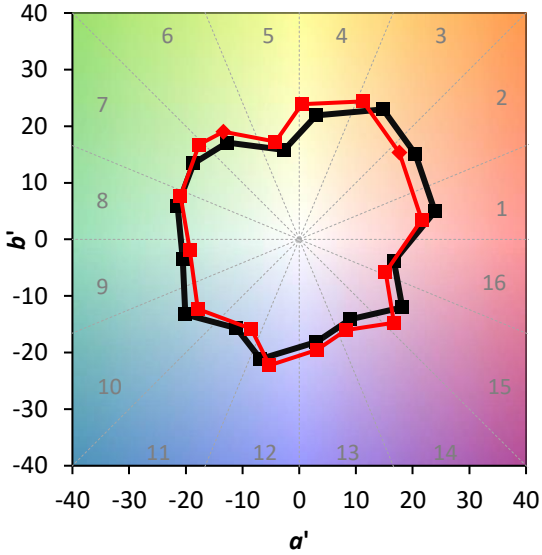
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

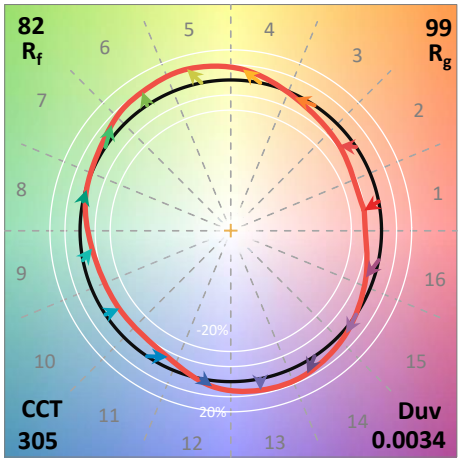
Spectral Power Distribution Comparison

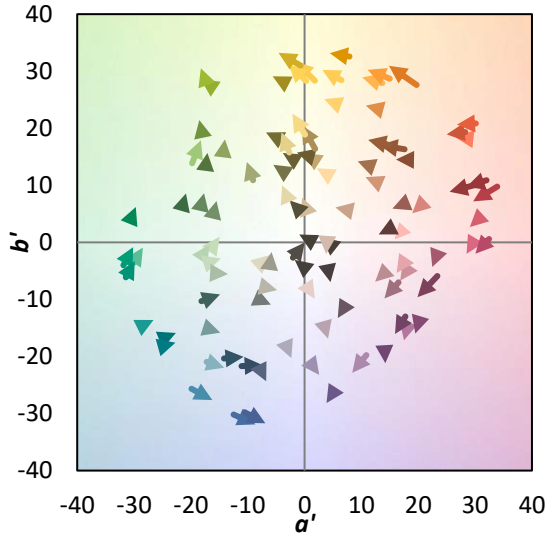


Color Vector Graphics









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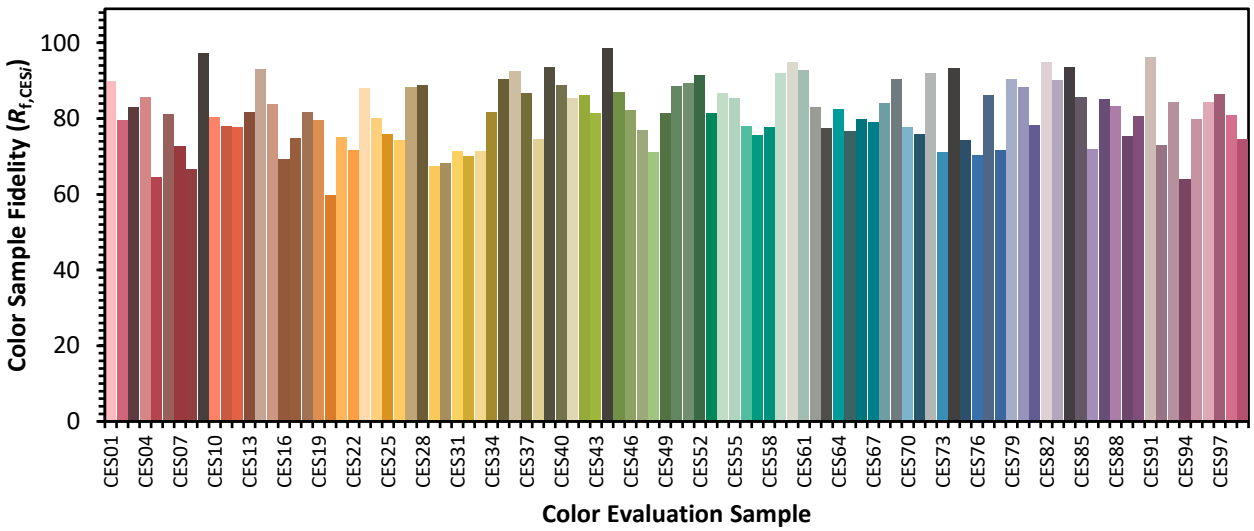
Individual Sample Fidelity Index ($R_{f,i}$)

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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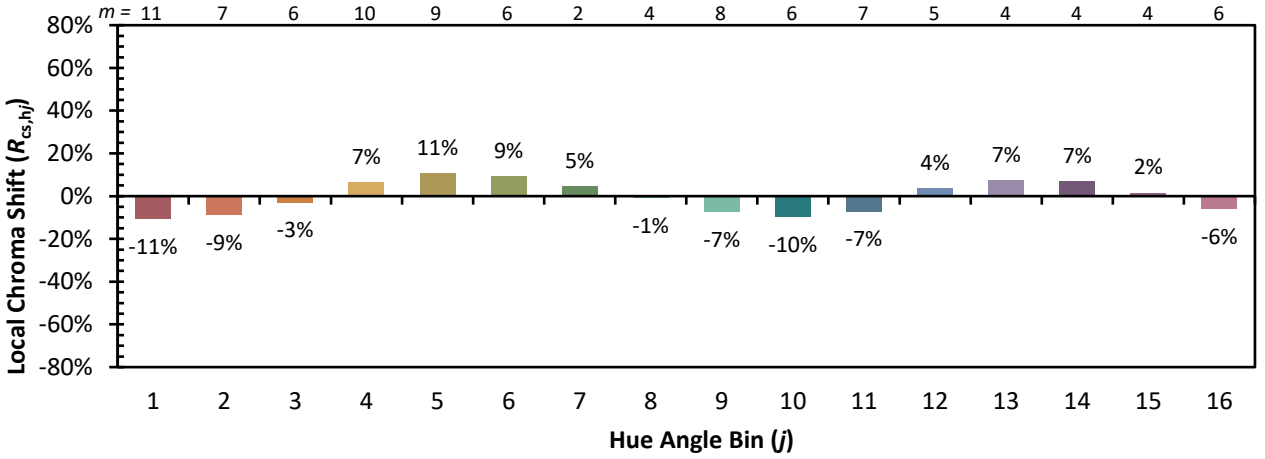
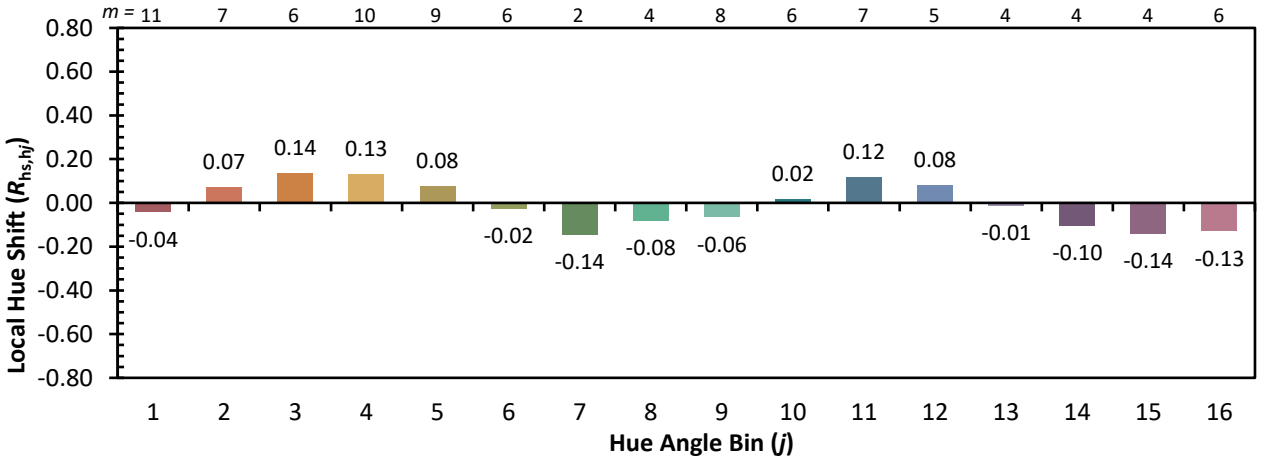
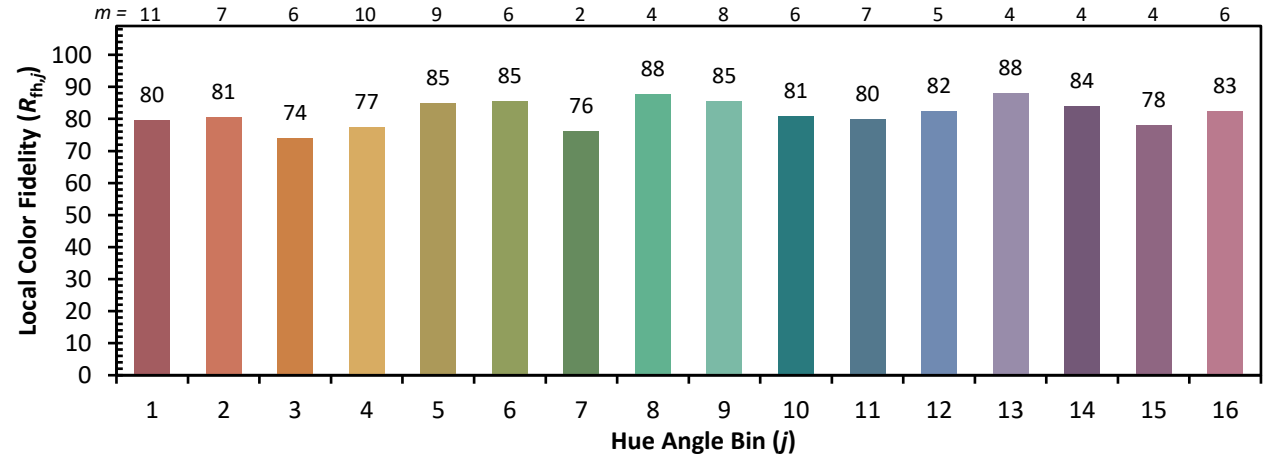
Color Rendition by Hue-Angle Bin







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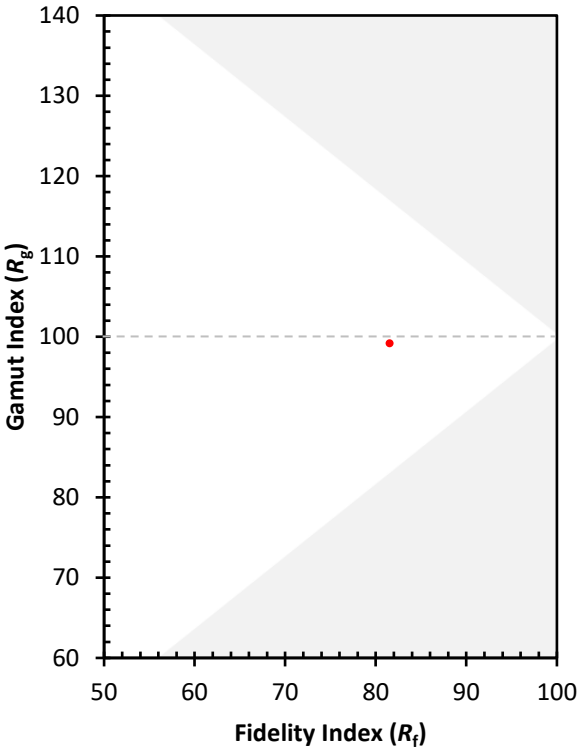
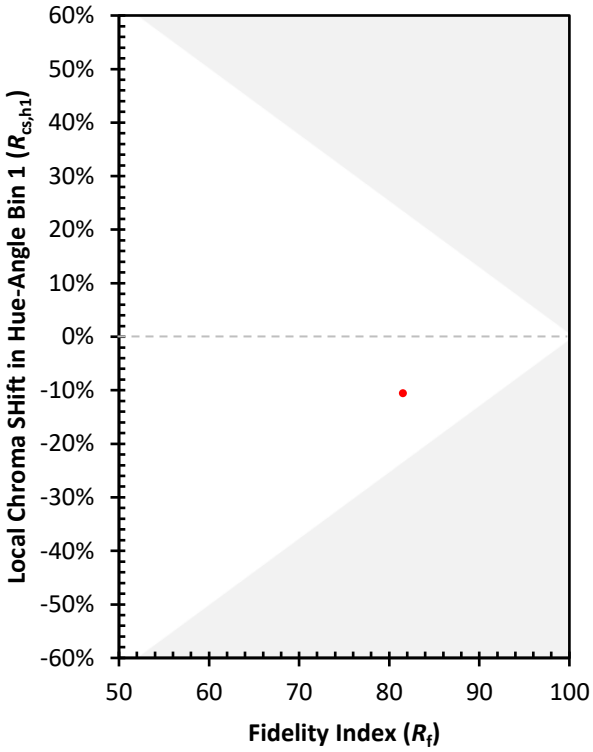
Measure Comparisons





(END OF REPORT)