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: P437935

Luminaire Tested: **ISS-SA1F-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:	P437935
	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:	ISS-SA1F-830-U-SL3
Description:	IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA 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:	6146 lumens
Efficiency:	N/A
Efficacy:	93.1 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):	66
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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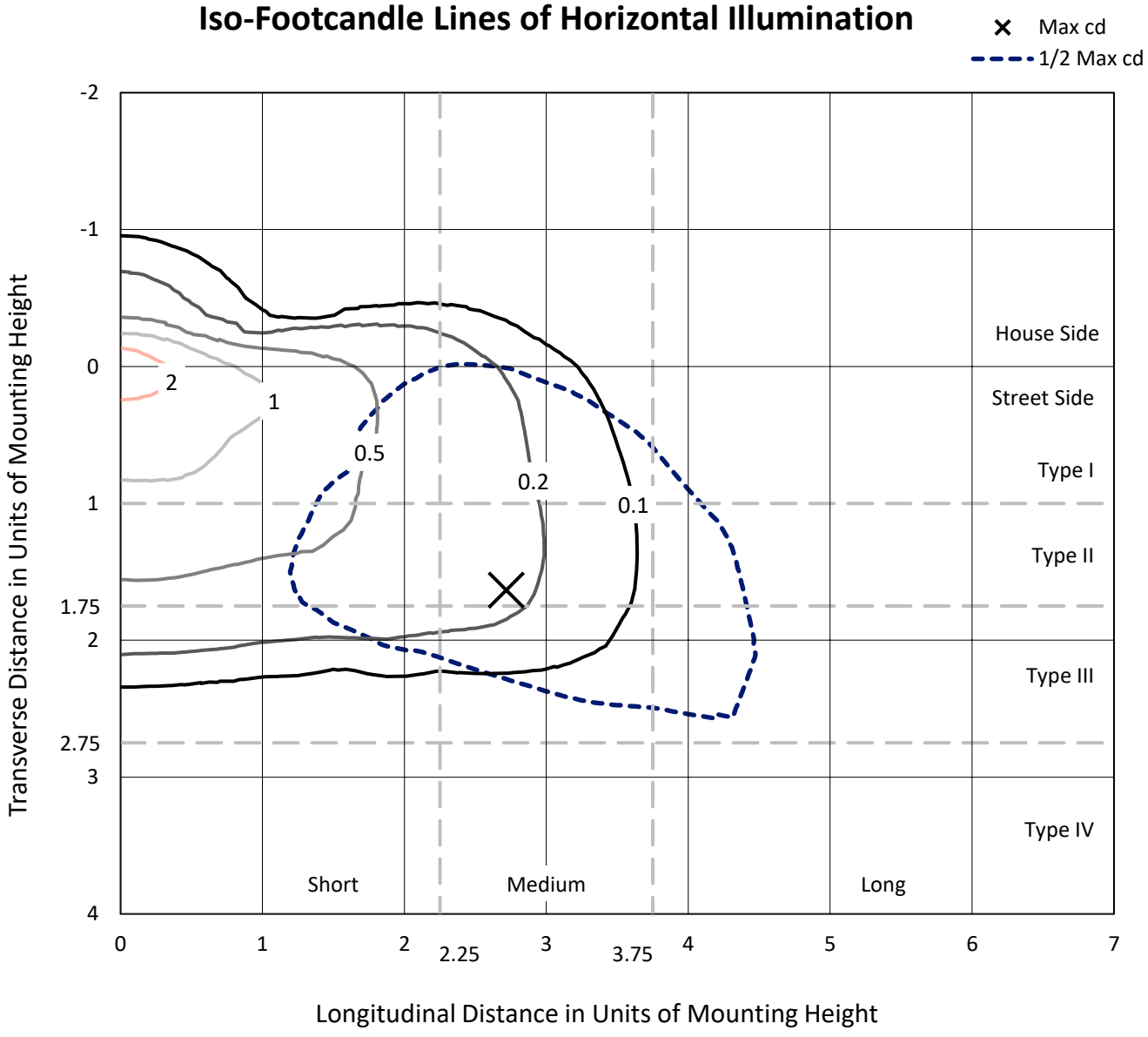
Scaled Data Report

REPORT NUMBER: P437935
CATALOG NUMBER: ISS-SA1F-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Medium - N/A

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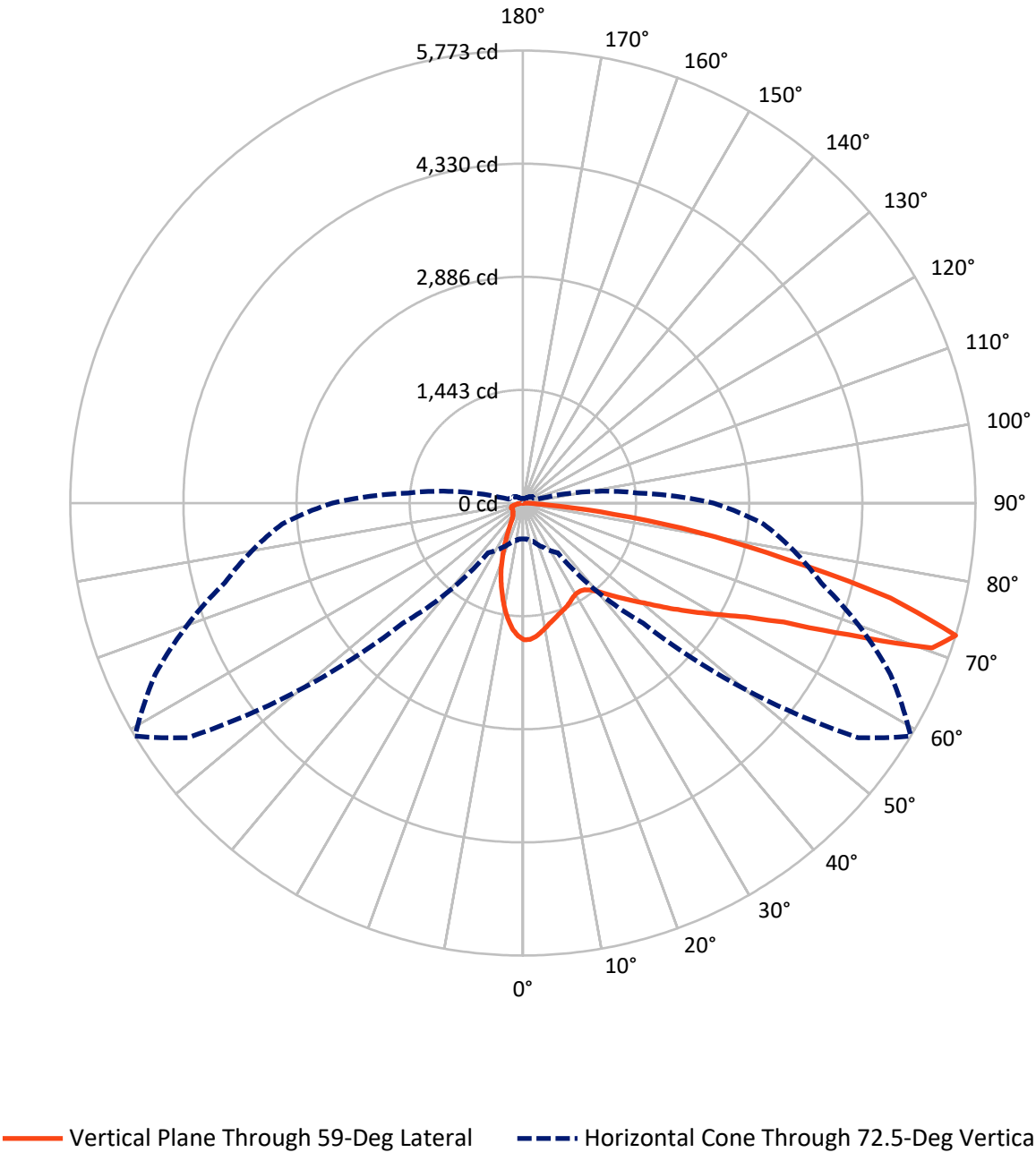
Luminous Intensity Polar Plot



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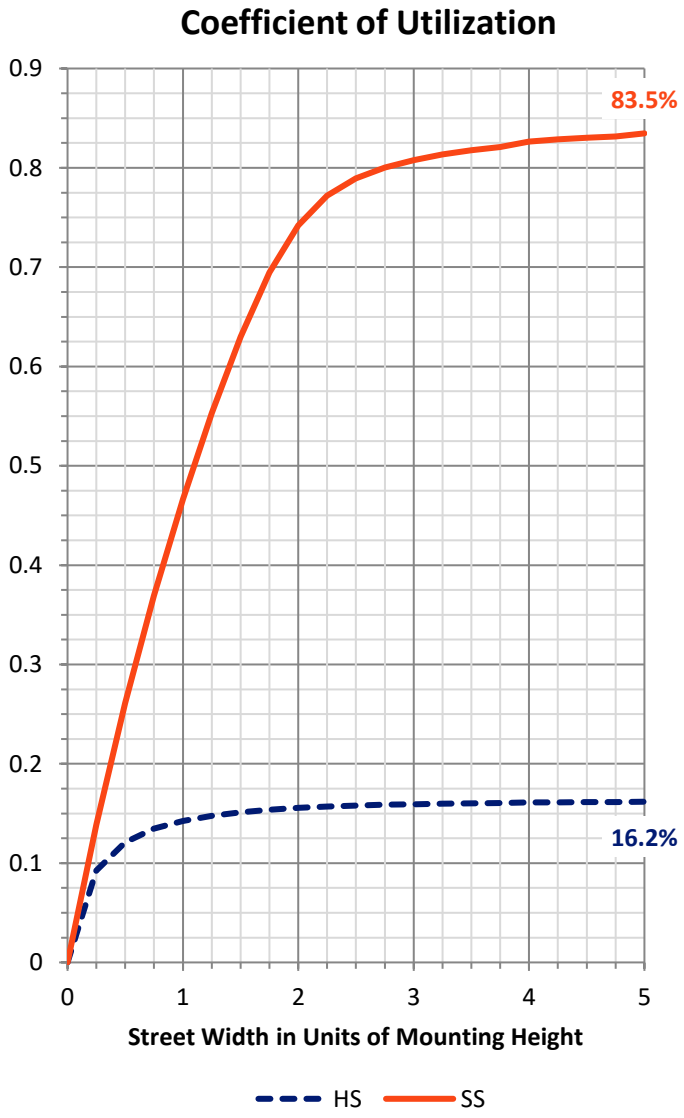
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.2	0.0	1003.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5142.8	0.0	5142.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	6146.0	0.0	6146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	2.4
10°-20°	336.4	5.5
20°-30°	433.4	7.1
30°-40°	554.5	9.0
40°-50°	769.5	12.5
50°-60°	1134.2	18.5
60°-70°	1526.1	24.8
70°-80°	1110.2	18.1
80°-90°	132.0	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°	6146.0	100.0
0°-180°	6146.0	100.0



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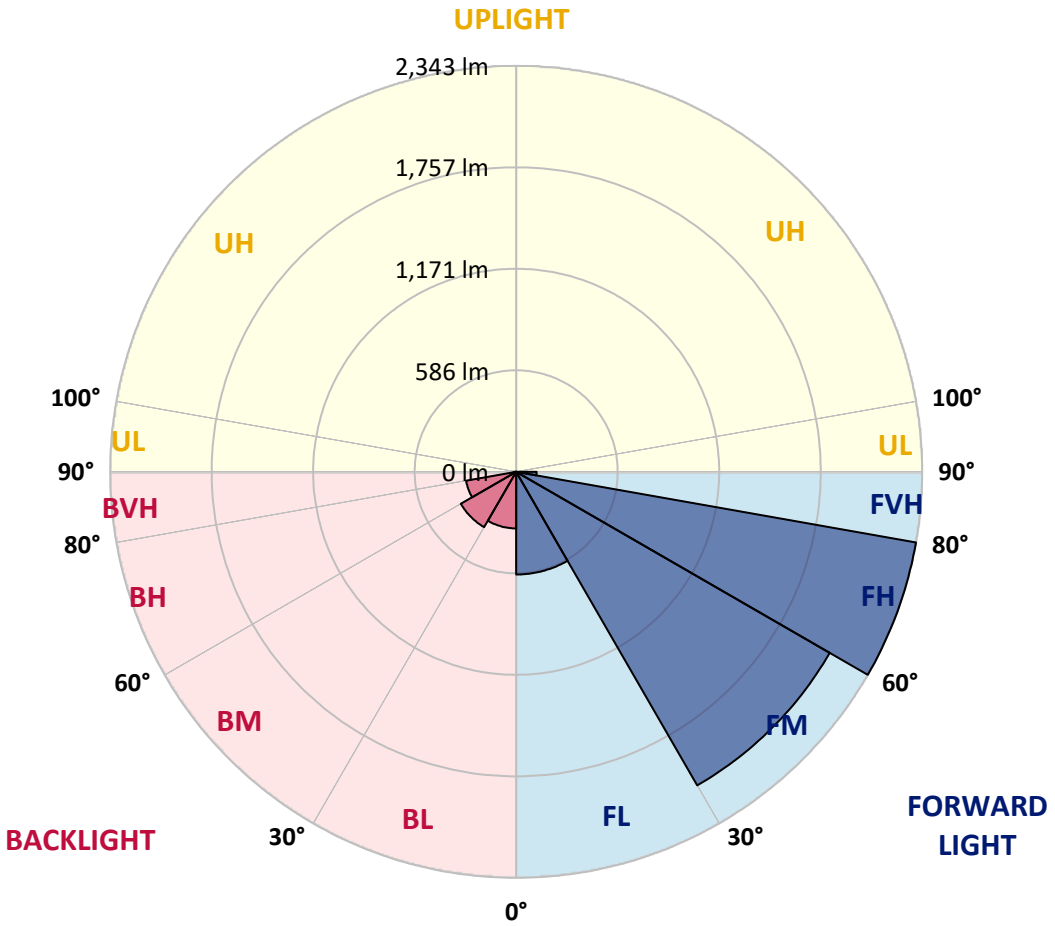
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	592.8	9.6			
FM	(30°-60°)	2089.4	34.0			
FH	(60°-80°)	2342.8	38.1			G2/5000
FVH	(80°-90°)	117.8	1.9			G2/225
BL	(0°-30°)	326.7	5.3	B1/500		
BM	(30°-60°)	368.8	6.0	B1/1000		
BH	(60°-80°)	293.4	4.8	B1/500		G1/500
BVH	(80°-90°)	14.2	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	*1744.3*	1744.3	1744.3	1744.3
2.5°	1735.4	1735.4	1742.1	1746.6	1739.9	1746.6	1744.3	*1742.1*	1744.3	1744.3	1739.9
5°	1663.7	1672.7	1672.7	1674.9	1690.6	1701.8	1706.3	*1710.8*	1713.0	1715.2	1710.8
7.5°	1576.4	1580.9	1585.4	1605.5	1614.5	1639.1	1654.8	*1663.7*	1672.7	1677.2	1663.7
10°	1480.1	1486.8	1500.3	1515.9	1538.3	1571.9	1598.8	*1614.5*	1627.9	1634.6	1618.9
12.5°	1399.5	1401.7	1415.2	1439.8	1466.7	1513.7	1547.3	*1565.2*	1583.1	1596.6	1578.6
15°	1325.6	1327.8	1339.0	1368.2	1399.5	1451.0	1500.3	*1527.1*	1551.8	1574.2	1549.5
17.5°	1267.4	1274.1	1278.6	1303.2	1341.3	1397.3	1462.2	*1489.1*	1527.1	1560.7	1529.4
20°	1233.8	1231.6	1233.8	1249.5	1289.8	1345.8	1421.9	*1460.0*	1504.7	1551.8	1509.2
22.5°	1213.6	1218.1	1215.9	1222.6	1247.2	1303.2	1379.3	*1433.1*	1484.6	1545.1	1491.3
25°	1213.6	1220.4	1218.1	1215.9	1224.8	1262.9	1343.5	*1397.3*	1462.2	1545.1	1471.2
27.5°	1236.0	1238.3	1233.8	1227.1	1227.1	1240.5	1312.2	*1361.4*	1451.0	1542.8	1460.0
30°	1256.2	1260.7	1260.7	1256.2	1249.5	1242.8	1289.8	*1341.3*	1439.8	1556.2	1451.0
32.5°	1283.1	1287.5	1296.5	1301.0	1292.0	1271.9	1296.5	*1339.0*	1442.0	1585.4	1453.2
35°	1316.7	1321.1	1334.6	1357.0	1350.2	1316.7	1321.1	*1359.2*	1460.0	1616.7	1462.2
37.5°	1343.5	1350.2	1379.3	1417.4	1419.7	1383.8	1381.6	*1408.5*	1493.5	1666.0	1493.5
40°	1370.4	1379.3	1421.9	1484.6	1498.0	1477.9	1464.4	*1484.6*	1554.0	1737.6	1545.1
42.5°	1406.2	1415.2	1471.2	1549.5	1583.1	1574.2	1565.2	*1594.3*	1645.8	1833.9	1625.7
45°	1444.3	1462.2	1533.9	1621.2	1681.6	1688.4	1697.3	*1715.2*	1755.5	1968.3	1739.9
47.5°	1513.7	1529.4	1612.2	1701.8	1780.2	1816.0	1831.7	*1854.1*	1878.7	2091.4	1878.7
50°	1607.7	1639.1	1713.0	1800.3	1892.1	1961.5	2001.8	*2001.8*	2028.7	2239.2	2031.0
52.5°	1748.8	1777.9	1822.7	1905.6	2015.3	2125.0	2181.0	*2189.9*	2181.0	2380.3	2185.5
55°	1867.5	1896.6	1939.2	1999.6	2138.4	2308.6	2404.9	*2398.2*	2366.8	2530.3	2337.7
57.5°	1999.6	2022.0	2060.1	2109.3	2263.8	2499.0	2640.0	*2633.3*	2575.1	2682.6	2503.4
60°	2055.6	2086.9	2156.4	2257.1	2458.6	2743.0	2908.7	*2888.6*	2758.7	2846.0	2651.2
62.5°	1887.6	1945.9	2086.9	2290.7	2684.8	3150.6	3260.3	*3195.3*	3018.4	3025.2	2850.5
65°	1509.2	1477.9	1692.8	2031.0	2702.7	3654.4	3797.7	*3656.6*	3343.1	3253.6	3076.7
67.5°	862.1	875.5	978.5	1343.5	2225.8	3860.4	4729.2	*4480.6*	3851.4	3609.6	3349.8
70°	584.4	597.9	642.7	797.2	1278.6	3450.6	5488.3	*5537.6*	4637.4	3925.3	3358.8
72.5°	*456.8*	*459.0*	*506.1*	*627.0*	*774.8*	*2167.5*	*5217.3*	*5772.7*	*5174.8*	*3936.5*	*3081.1*
75°	349.3	351.6	394.1	535.2	696.4	1050.2	3972.3	*4841.2*	4854.6	3620.8	2516.9
77.5°	221.7	232.9	282.1	427.7	653.8	696.4	2530.3	*3410.3*	3499.9	2682.6	1316.7
80°	107.5	112.0	141.1	273.2	575.5	615.8	1507.0	*2268.3*	1966.0	1045.7	400.8
82.5°	44.8	47.0	67.2	118.7	367.2	521.7	754.6	*1166.6*	759.1	284.4	129.9
85°	9.0	11.2	15.7	29.1	118.7	255.3	309.0	*302.3*	183.6	87.3	49.3
87.5°	0.0	0.0	0.0	2.2	2.2	4.5	4.5	*4.5*	4.5	4.5	4.5
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

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CATALOG NUMBER: ISS-SA1F-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3
2.5°	1737.6	1737.6	1719.7	1706.3	1690.6	1679.4	1668.2	1654.8	1652.5	1659.3	1666.0
5°	1701.8	1692.8	1663.7	1636.9	1605.5	1569.7	1547.3	1518.2	1502.5	1509.2	1504.7
7.5°	1654.8	1641.3	1587.6	1542.8	1480.1	1424.1	1386.1	1343.5	1314.4	1303.2	1296.5
10°	1605.5	1578.6	1507.0	1426.4	1343.5	1260.7	1191.3	1124.1	1090.5	1088.3	1052.4
12.5°	1558.5	1522.7	1421.9	1305.5	1191.3	1079.3	976.3	902.4	810.6	783.7	792.7
15°	1520.4	1471.2	1330.1	1182.3	1034.5	893.4	759.1	649.4	568.8	539.6	528.5
17.5°	1484.6	1415.2	1245.0	1068.1	882.2	705.3	541.9	459.0	409.8	391.9	391.9
20°	1444.3	1363.7	1153.2	940.5	714.3	524.0	400.8	360.5	344.8	342.6	340.4
22.5°	1412.9	1312.2	1059.1	806.1	557.6	398.6	331.4	313.5	313.5	315.7	315.7
25°	1374.9	1254.0	958.4	662.8	429.9	320.2	293.3	286.6	293.3	300.1	300.1
27.5°	1348.0	1202.5	866.6	528.5	333.6	277.7	264.2	266.5	275.4	284.4	284.4
30°	1325.6	1153.2	770.3	416.5	277.7	246.3	244.1	248.6	257.5	266.5	264.2
32.5°	1303.2	1115.1	665.0	329.2	239.6	226.2	223.9	230.6	237.4	239.6	244.1
35°	1294.3	1083.8	559.8	270.9	217.2	210.5	210.5	212.7	215.0	217.2	217.2
37.5°	1301.0	1059.1	465.8	230.6	203.8	201.5	199.3	197.0	197.0	197.0	199.3
40°	1327.8	1050.2	385.1	208.2	192.6	192.6	188.1	181.4	179.1	181.4	179.1
42.5°	1381.6	1068.1	318.0	194.8	183.6	181.4	174.7	170.2	167.9	167.9	165.7
45°	1466.7	1099.4	273.2	185.9	176.9	170.2	163.5	159.0	156.7	159.0	159.0
47.5°	1578.6	1157.7	241.8	176.9	170.2	159.0	150.0	147.8	147.8	152.3	152.3
50°	1713.0	1236.0	223.9	172.4	163.5	150.0	141.1	138.8	141.1	145.5	147.8
52.5°	1856.3	1334.6	219.4	170.2	156.7	141.1	134.4	132.1	134.4	138.8	141.1
55°	1999.6	1442.0	230.6	170.2	150.0	134.4	129.9	123.2	125.4	129.9	132.1
57.5°	2151.9	1558.5	264.2	165.7	145.5	129.9	123.2	116.4	116.4	120.9	120.9
60°	2315.3	1690.6	326.9	165.7	141.1	125.4	114.2	107.5	107.5	107.5	109.7
62.5°	2496.7	1849.6	400.8	167.9	143.3	120.9	105.2	96.3	96.3	98.5	96.3
65°	2765.4	2086.9	421.0	170.2	147.8	116.4	98.5	89.6	87.3	87.3	87.3
67.5°	2931.1	2113.8	326.9	165.7	154.5	116.4	91.8	80.6	78.4	76.1	76.1
70°	2810.2	1856.3	232.9	159.0	154.5	116.4	87.3	73.9	69.4	64.9	64.9
72.5°	*2431.8*	*1473.4*	*190.3*	*150.0*	*143.3*	*109.7*	*80.6*	*67.2*	*60.5*	*56.0*	*56.0*
75°	1948.1	1045.7	161.2	138.8	120.9	87.3	67.2	56.0	51.5	49.3	49.3
77.5°	949.4	515.0	125.4	120.9	96.3	64.9	53.7	47.0	44.8	40.3	40.3
80°	277.7	190.3	94.0	96.3	60.5	44.8	40.3	38.1	35.8	31.3	33.6
82.5°	127.6	107.5	67.2	60.5	38.1	26.9	26.9	24.6	22.4	20.2	20.2
85°	51.5	53.7	35.8	29.1	17.9	13.4	11.2	11.2	9.0	9.0	9.0
87.5°	4.5	6.7	6.7	4.5	4.5	2.2	0.0	0.0	0.0	2.2	2.2
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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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

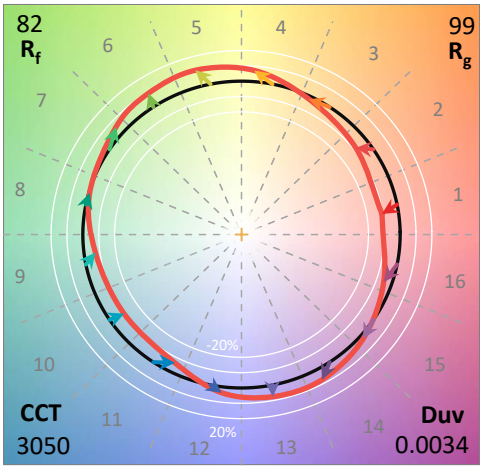
Test Information

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

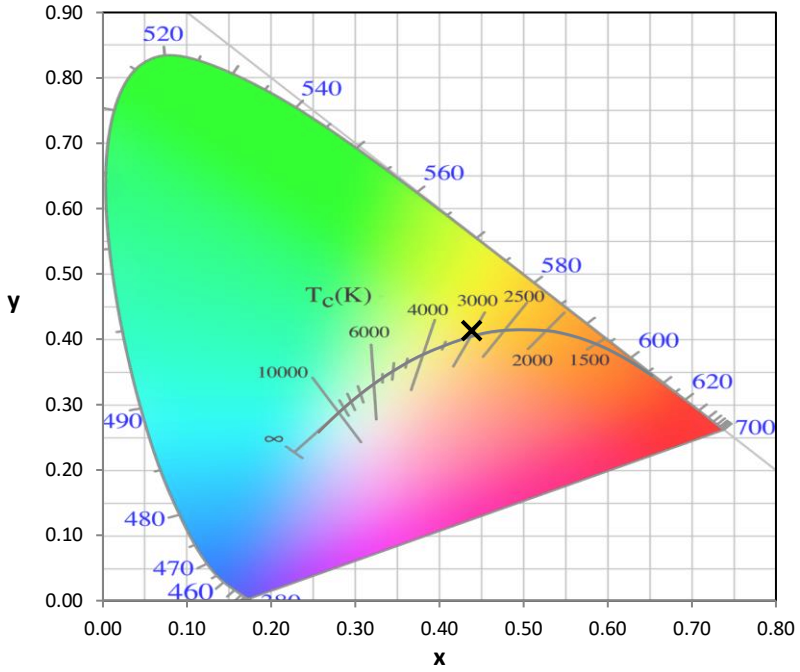
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

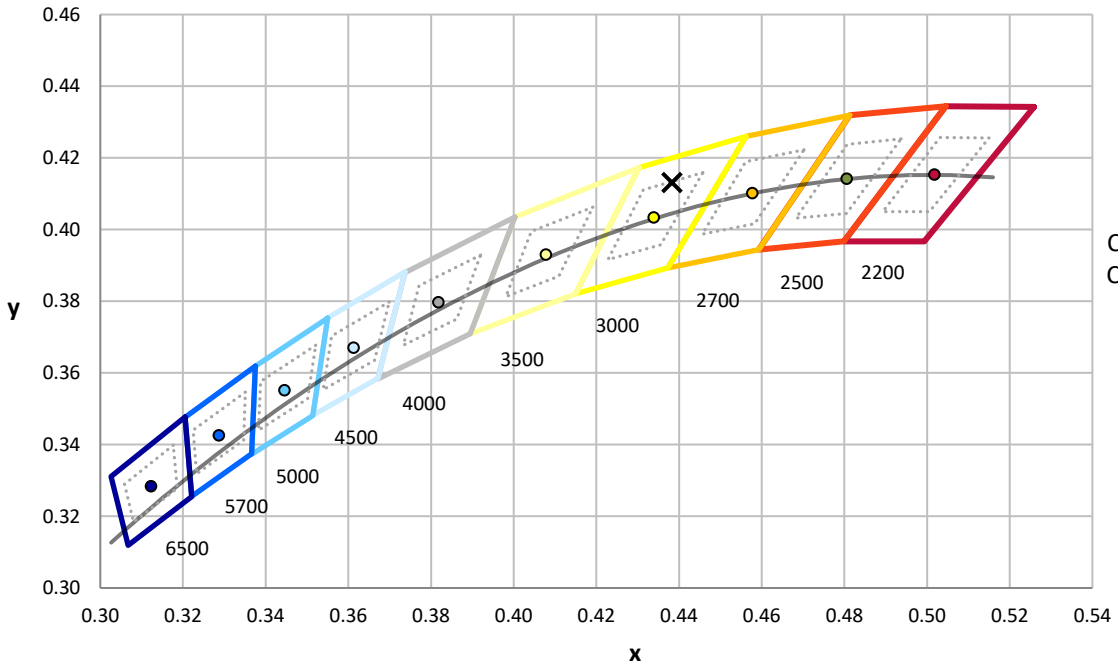
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

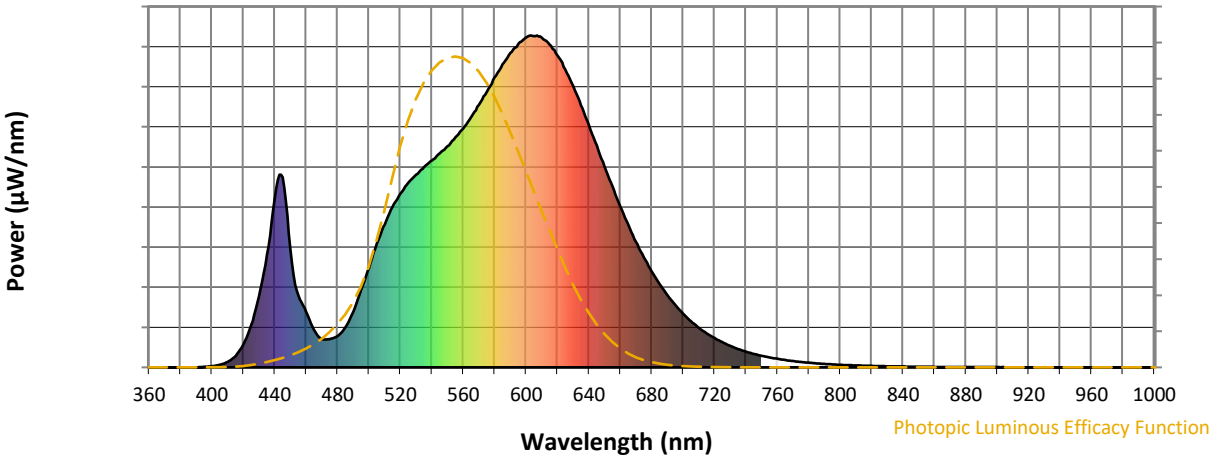


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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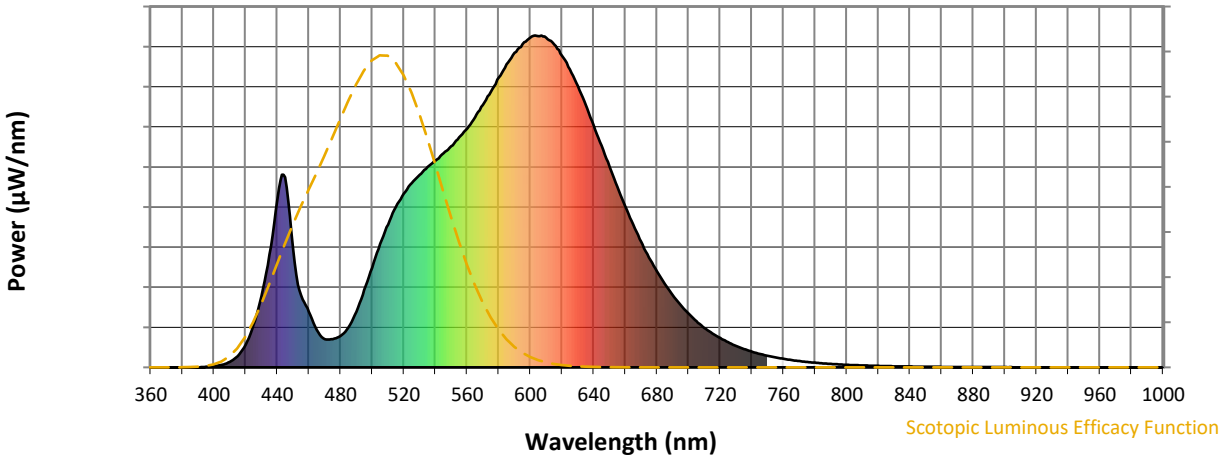
Scotopic Flux vs. Wavelength



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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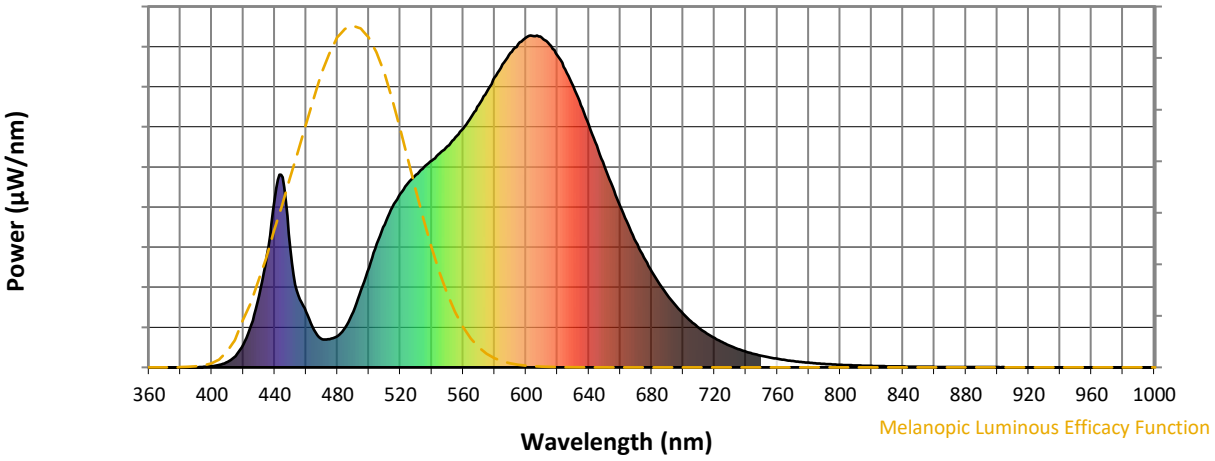
Melanopic Flux vs. Wavelength



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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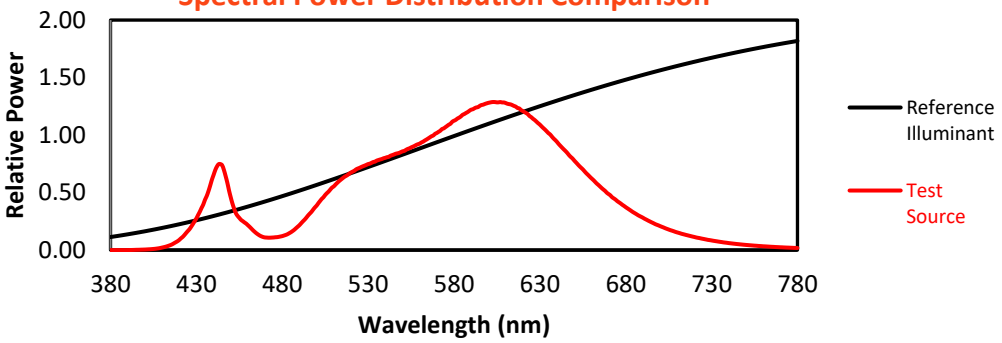
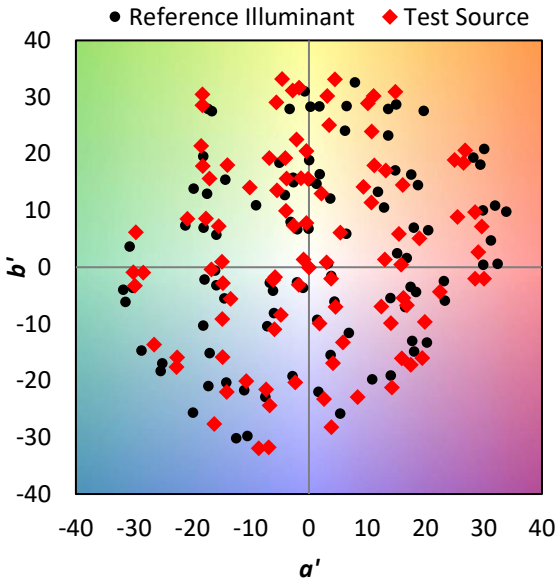
Summary

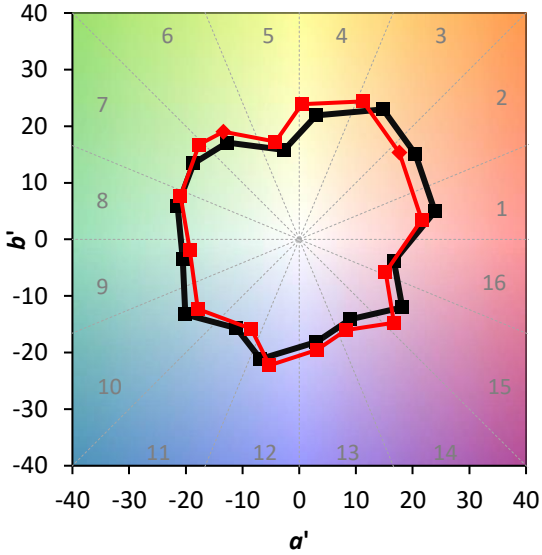
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

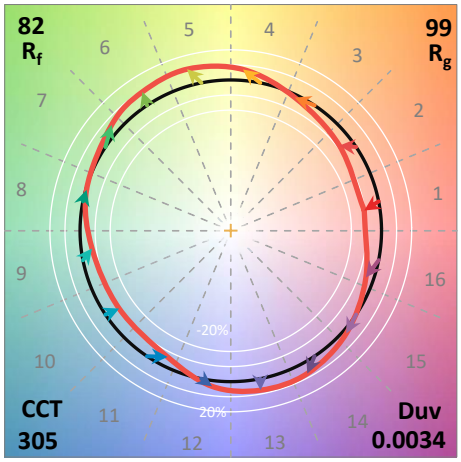
Spectral Power Distribution Comparison

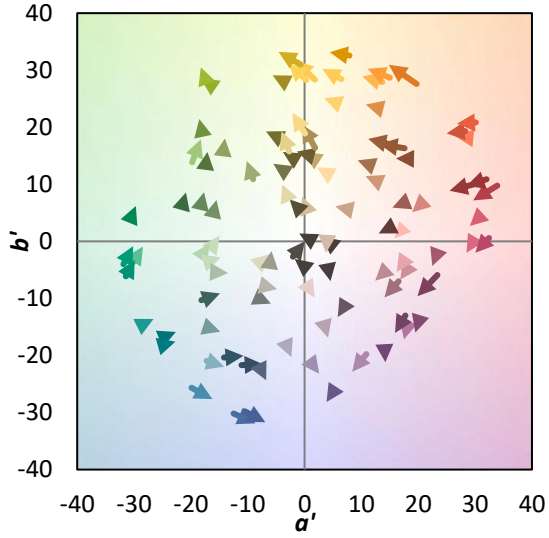


Color Vector Graphics









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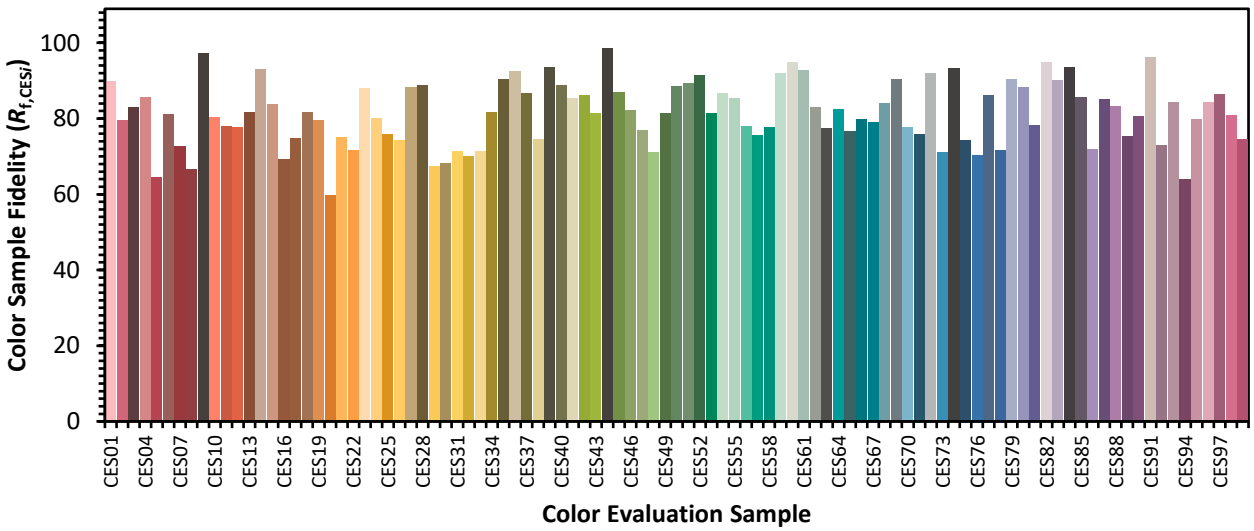
Individual Sample Fidelity Index ($R_{f,i}$)

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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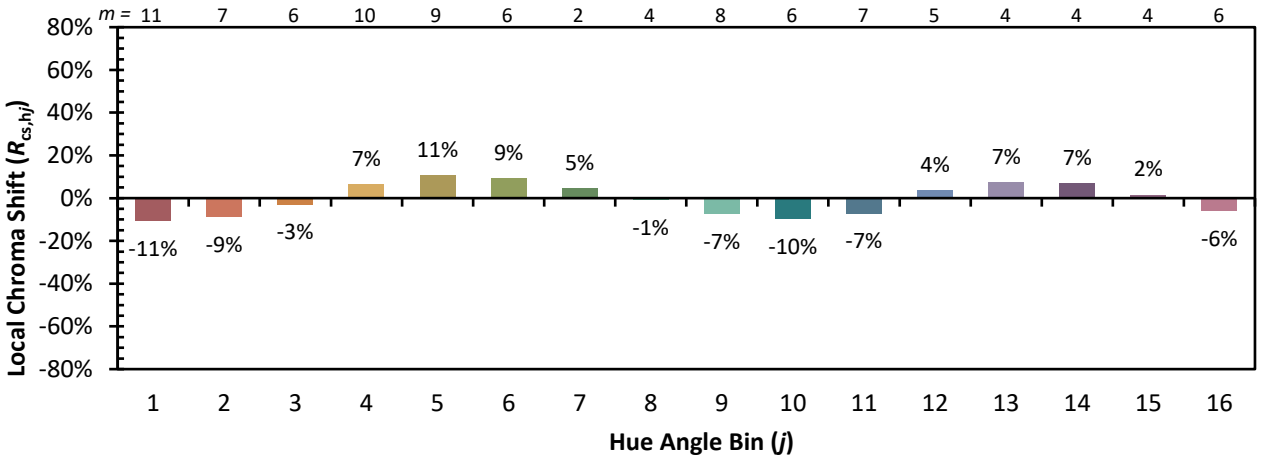
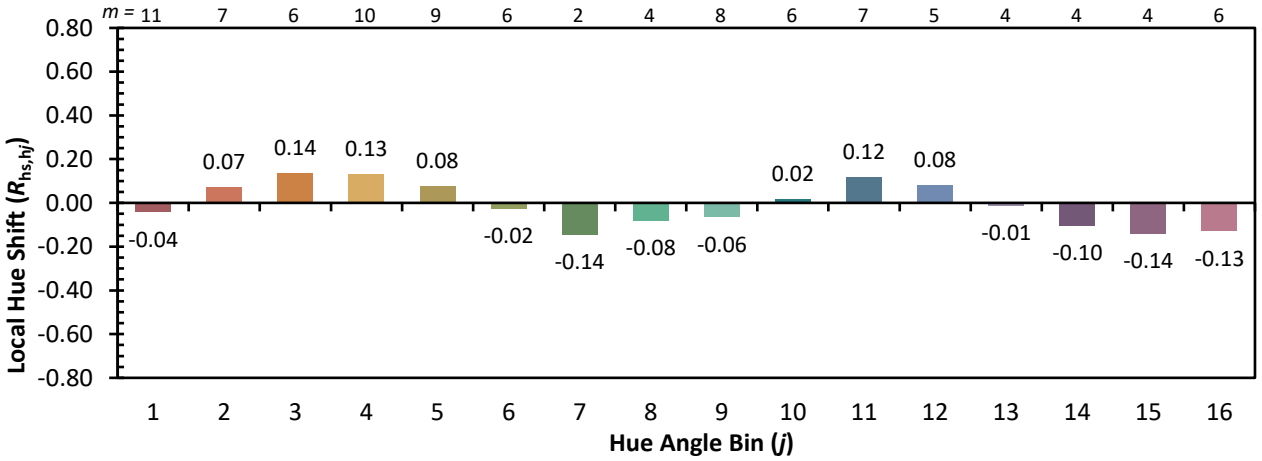
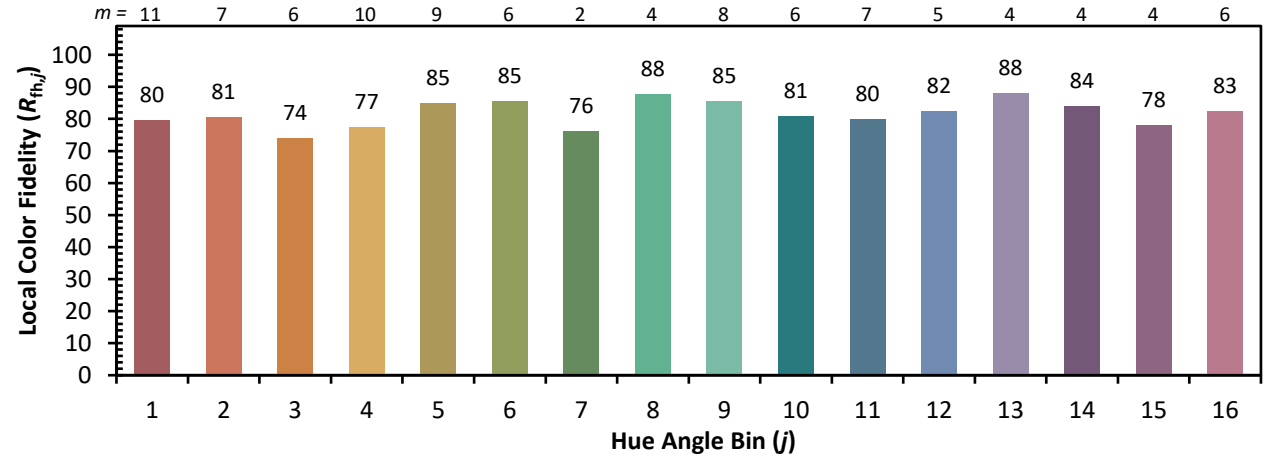
Color Rendition by Hue-Angle Bin







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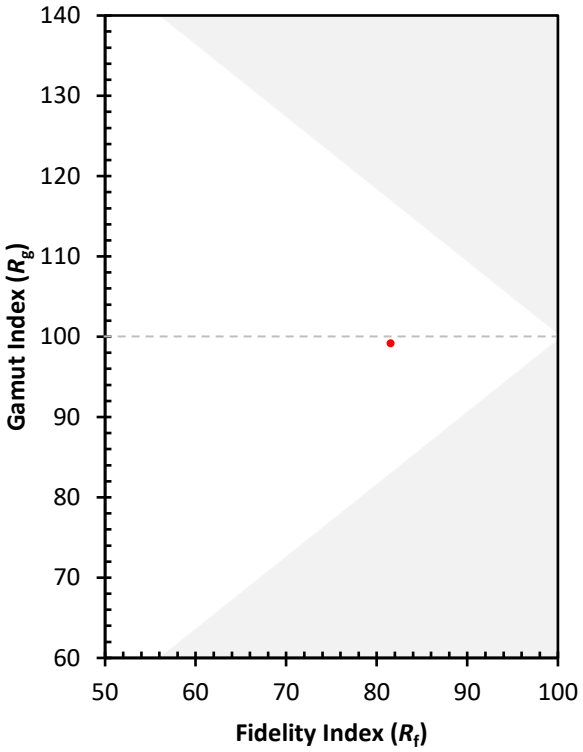
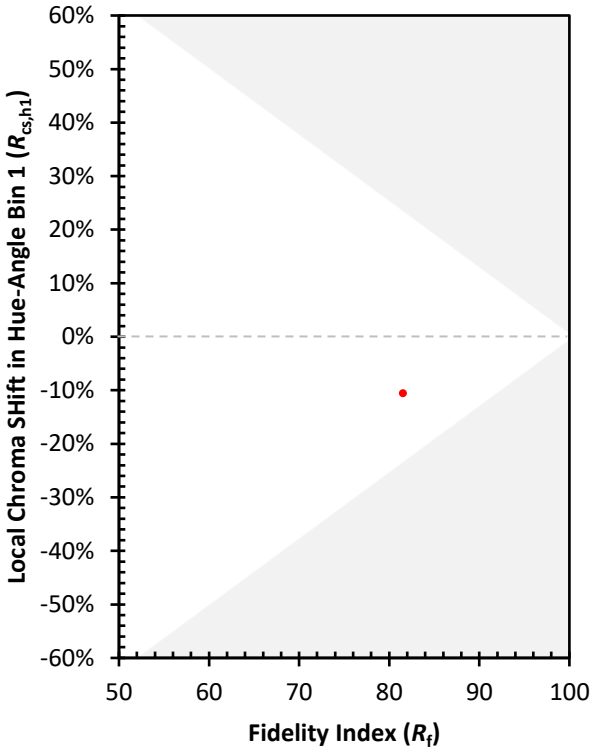
Measure Comparisons





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