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: P386273

Luminaire Tested: **GPC-SA1D-830-U-SL2**

Issue Date: 3/3/2020

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:	P386273
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA1D-830-U-SL2
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6450 lumens
Efficiency:	N/A
Efficacy:	97.7 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):	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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REPORT NUMBER: P386273
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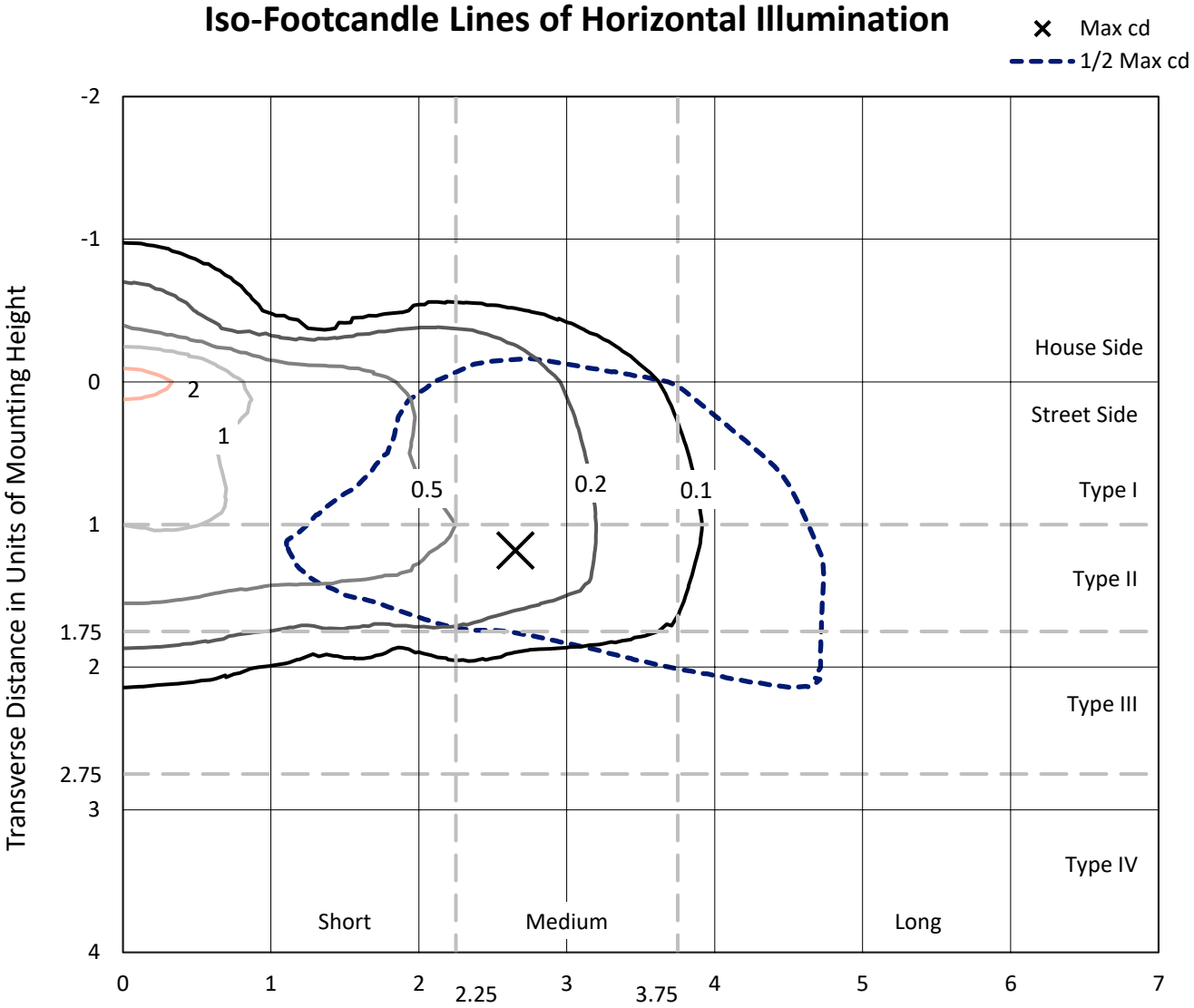
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Medium - N/A

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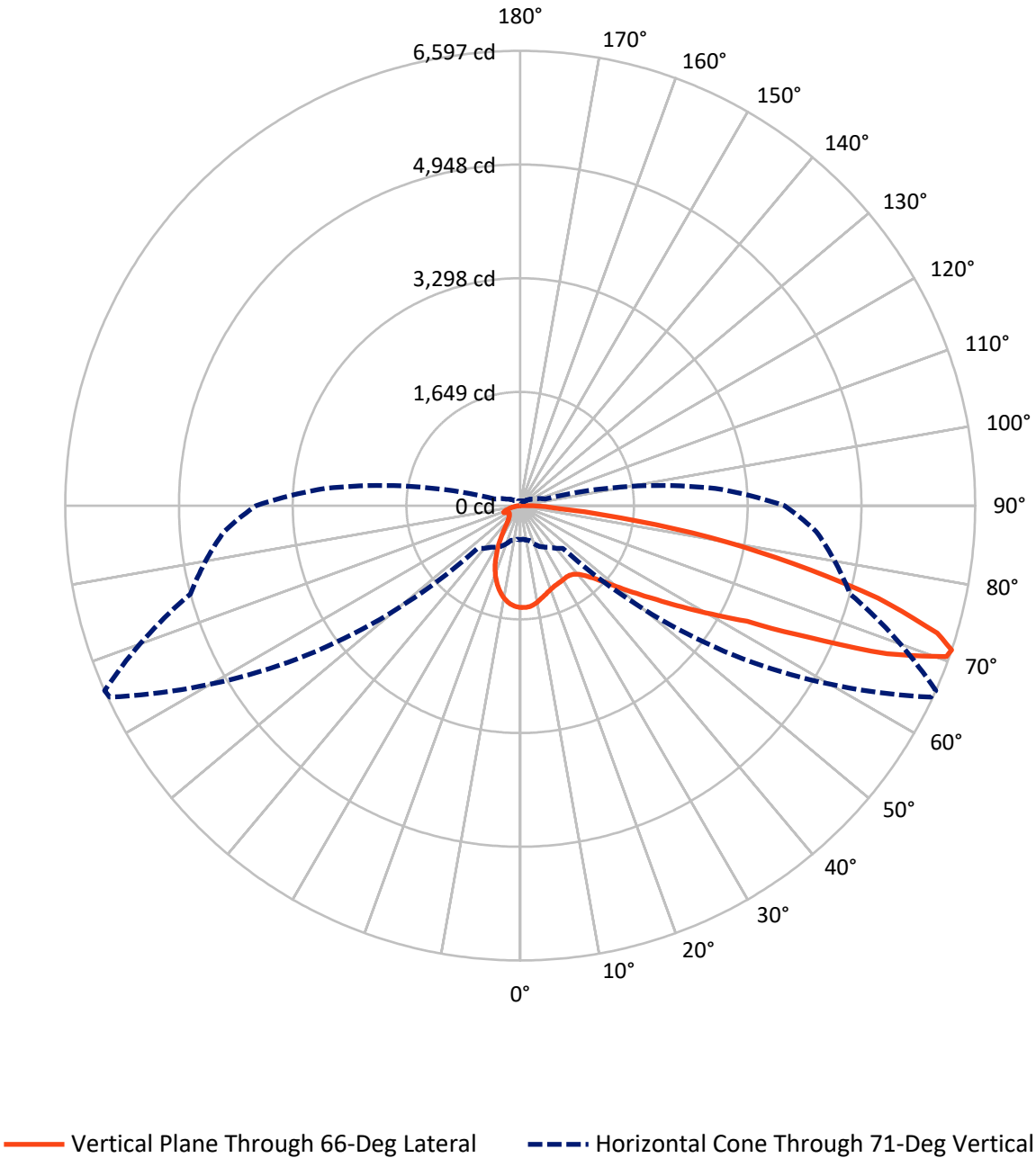
Luminous Intensity Polar Plot



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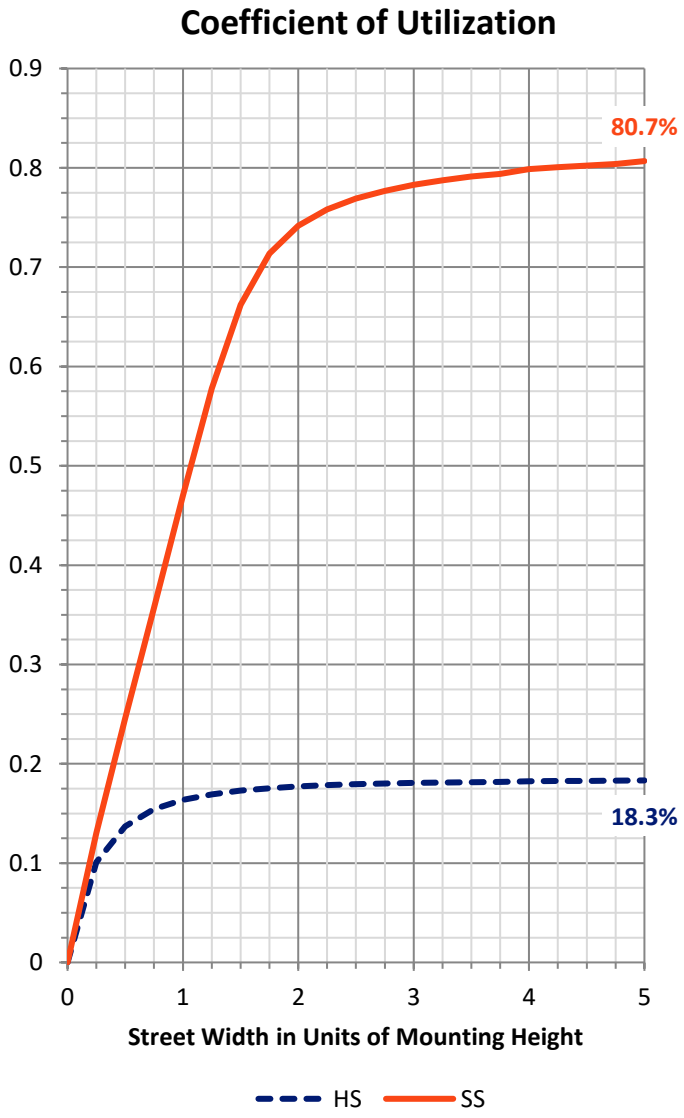
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.4	0.0	1195.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5254.6	0.0	5254.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	6450.0	0.0	6450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.0
10°-20°	311.9	4.8
20°-30°	419.0	6.5
30°-40°	551.2	8.5
40°-50°	801.9	12.4
50°-60°	1252.6	19.4
60°-70°	1569.1	24.3
70°-80°	1196.9	18.6
80°-90°	217.3	3.4
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°	6450.0	100.0
0°-180°	6450.0	100.0



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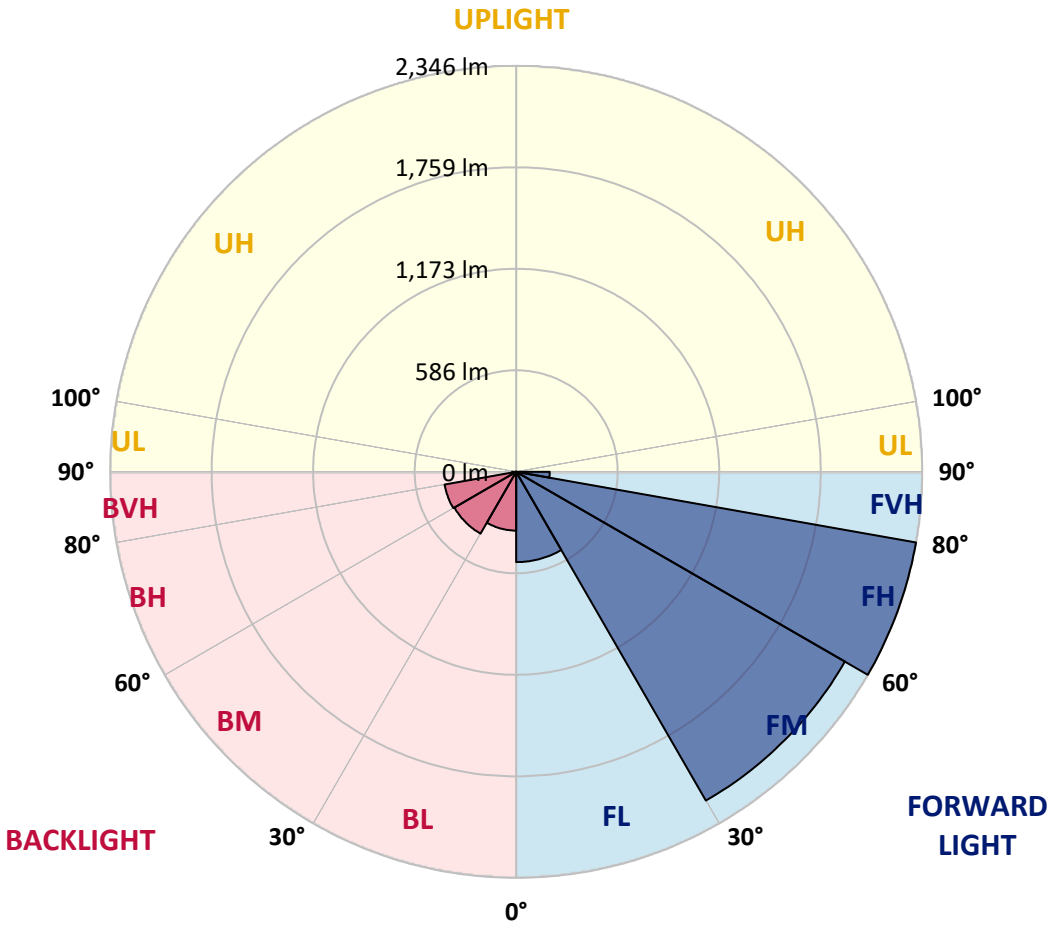
REPORT NUMBER: P386273
CATALOG NUMBER: GPC-SA1D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	521.6	8.1			
FM	(30°-60°)	2193.3	34.0			
FH	(60°-80°)	2345.9	36.4			G2/5000
FVH	(80°-90°)	193.8	3.0			G2/225
BL	(0°-30°)	339.5	5.3	B1/500		
BM	(30°-60°)	412.4	6.4	B1/1000		
BH	(60°-80°)	420.0	6.5	B1/500		G1/500
BVH	(80°-90°)	23.5	0.4			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: P386273
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	*1477.6*	1477.6	1477.6
2.5°	1450.2	1448.0	1454.6	1461.5	1464.2	1468.7	1475.3	1479.1	*1478.9*	1479.6	1477.3
5°	1354.0	1351.1	1364.4	1375.4	1396.3	1419.9	1448.6	1469.1	*1469.6*	1481.1	1484.3
7.5°	1262.9	1260.9	1276.3	1293.8	1318.1	1354.2	1400.7	1444.8	*1447.5*	1478.9	1489.8
10°	1189.9	1189.4	1204.3	1223.5	1251.8	1292.1	1345.5	1410.1	*1414.1*	1468.2	1490.7
12.5°	1132.8	1133.7	1146.6	1168.5	1198.3	1240.4	1298.3	1371.1	*1377.6*	1451.3	1485.6
15°	1090.8	1094.3	1104.8	1126.8	1156.2	1199.0	1258.4	1335.0	*1344.8*	1432.4	1482.7
17.5°	1066.7	1070.7	1078.1	1096.3	1123.9	1165.1	1221.5	1305.4	*1314.3*	1417.9	1482.9
20°	1059.6	1062.9	1067.1	1078.3	1101.7	1139.1	1192.3	1278.7	*1288.3*	1406.3	1485.1
22.5°	1073.6	1076.1	1076.5	1075.6	1089.9	1120.4	1171.1	1259.1	*1269.4*	1398.7	1486.7
25°	1103.7	1107.0	1104.6	1096.3	1091.6	1110.3	1160.2	1246.2	*1256.4*	1393.2	1483.6
27.5°	1148.9	1149.3	1147.3	1136.6	1114.6	1111.5	1156.9	1238.6	*1248.4*	1386.7	1477.1
30°	1210.3	1213.2	1209.7	1195.2	1159.1	1129.3	1160.9	1231.3	*1240.2*	1378.5	1466.7
32.5°	1282.3	1289.4	1289.2	1274.0	1222.4	1169.1	1177.4	1226.8	*1233.7*	1369.8	1454.0
35°	1356.9	1366.7	1384.9	1378.5	1314.6	1232.2	1209.0	1233.9	*1238.6*	1368.7	1445.1
37.5°	1434.4	1444.2	1481.8	1499.2	1424.3	1322.4	1258.9	1259.1	*1261.3*	1382.3	1444.4
40°	1515.4	1525.9	1582.5	1627.7	1566.6	1436.6	1339.3	1311.7	*1309.2*	1415.7	1457.5
42.5°	1629.0	1638.4	1706.3	1764.0	1724.5	1582.9	1450.4	1392.7	*1387.6*	1481.1	1499.6
45°	1772.6	1780.7	1852.8	1914.5	1894.2	1749.9	1590.0	1504.3	*1503.4*	1590.3	1584.9
47.5°	1943.4	1949.7	2014.5	2074.2	2081.5	1942.1	1765.5	1676.4	*1662.0*	1739.9	1717.0
50°	2121.4	2128.3	2172.4	2236.5	2291.1	2199.3	1991.3	1887.3	*1868.0*	1937.4	1904.0
52.5°	2239.2	2248.3	2286.6	2367.9	2526.7	2481.2	2258.3	2143.0	*2113.6*	2176.8	2151.2
55°	2186.6	2207.1	2265.7	2396.0	2715.1	2911.9	2587.7	2441.2	*2408.0*	2460.5	2445.4
57.5°	1947.7	1975.7	2055.7	2256.8	2741.6	3291.4	3085.6	2792.4	*2769.0*	2753.8	2760.7
60°	1511.0	1537.9	1637.0	1899.1	2557.0	3568.4	3835.0	3225.3	*3191.4*	3048.2	3054.5
62.5°	1069.4	1055.8	1123.7	1315.4	2077.7	3601.0	4687.7	3804.3	*3692.9*	3359.1	3331.7
65°	815.5	812.4	842.9	903.9	1258.4	3211.9	5195.7	4777.4	*4603.5*	3724.8	3660.2
67.5°	670.1	664.5	694.6	783.4	810.4	2072.2	5206.8	5906.5	*5735.7*	4180.0	4040.1
70°	550.9	544.7	572.8	687.5	748.9	1050.9	4382.2	6567.7	*6558.5*	4756.3	4326.9
71°	*493.9*	*489.5*	*523.1*	*650.5*	*735.8*	*875.9*	*3783.6*	*6569.5*	*6596.8*	*4951.4*	*4310.0*
72.5°	402.2	403.7	439.4	579.0	726.0	773.4	2780.8	6263.2	*6321.1*	5137.3	4156.1
75°	267.2	268.6	315.3	445.4	703.9	756.7	1528.3	5255.6	*5362.0*	5026.0	3792.5
77.5°	179.5	179.0	210.9	305.5	613.3	756.7	896.1	3930.8	*4047.7*	3999.1	2923.7
80°	123.6	122.7	145.2	210.9	464.3	765.8	692.8	2754.7	*2790.1*	2159.7	1188.3
82.5°	75.7	76.4	94.9	149.0	316.0	689.2	654.1	1502.1	*1463.5*	605.7	296.9
85°	43.4	43.2	60.6	100.9	202.9	581.7	637.8	646.5	*593.0*	182.4	107.3
87.5°	15.6	16.7	32.5	55.9	116.2	405.1	541.1	336.3	*303.1*	82.4	48.5
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

REPORT NUMBER: P386273
CATALOG NUMBER: GPC-SA1D-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1475.8	1477.1	1475.6	1466.7	1459.1	1446.8	1439.9	1430.4	1427.5	1426.1	1429.7
5°	1481.4	1481.8	1468.7	1445.3	1419.0	1388.0	1365.8	1338.4	1325.5	1319.9	1323.5
7.5°	1486.5	1484.5	1455.7	1411.0	1362.4	1308.5	1260.7	1216.8	1191.2	1180.7	1181.6
10°	1487.1	1478.7	1432.6	1363.3	1288.1	1209.0	1135.5	1067.8	1025.1	997.2	1005.7
12.5°	1480.2	1466.0	1398.5	1301.6	1197.2	1089.4	990.1	888.5	827.5	799.2	800.1
15°	1474.9	1449.1	1356.6	1229.0	1088.7	946.0	810.4	691.0	626.0	597.0	583.5
17.5°	1470.4	1430.8	1308.1	1147.3	960.7	779.6	616.6	510.2	474.6	466.1	462.5
20°	1464.2	1411.4	1254.0	1052.7	814.8	593.5	450.3	397.7	398.0	407.8	409.1
22.5°	1455.5	1389.4	1196.3	946.4	658.3	432.2	353.0	337.8	353.2	371.9	375.2
25°	1442.6	1363.3	1132.2	829.1	502.0	332.3	301.5	300.9	319.6	339.2	342.1
27.5°	1424.3	1329.3	1060.9	703.0	369.9	282.4	270.1	274.8	288.6	302.9	304.0
30°	1399.9	1289.6	982.3	570.1	289.9	251.4	250.1	254.3	262.8	272.8	273.7
32.5°	1372.9	1249.3	898.3	441.4	248.3	234.7	236.1	238.1	242.1	246.1	247.0
35°	1348.4	1208.1	812.4	335.4	228.5	223.8	222.9	222.5	222.9	221.6	221.8
37.5°	1332.6	1174.0	722.9	267.0	217.1	214.2	211.6	208.2	204.4	202.2	202.7
40°	1326.8	1148.7	632.2	230.7	207.8	205.8	200.6	193.5	189.1	187.7	187.7
42.5°	1342.4	1135.5	544.7	212.4	200.0	196.6	188.2	179.9	176.6	176.4	176.2
45°	1390.1	1140.9	461.4	202.4	192.9	186.4	175.3	168.4	166.1	166.6	166.4
47.5°	1475.6	1174.5	390.2	195.7	185.7	177.3	164.8	159.2	156.6	156.6	156.8
50°	1621.0	1253.1	333.4	190.2	179.7	168.8	157.2	150.3	146.8	146.5	146.5
52.5°	1832.8	1393.8	298.0	185.5	173.0	161.2	149.6	141.0	136.7	135.8	135.4
55°	2098.2	1595.6	288.2	182.4	164.1	153.0	140.5	131.8	127.2	125.2	124.9
57.5°	2395.1	1841.0	307.5	178.6	155.0	143.2	130.5	122.3	117.4	114.9	114.7
60°	2695.5	2108.9	386.6	173.3	147.4	132.5	120.3	112.7	107.8	105.1	104.7
62.5°	2996.3	2391.3	548.0	172.8	142.1	122.3	109.8	103.3	98.7	95.8	95.1
65°	3335.7	2700.4	731.5	184.6	140.3	112.9	99.1	94.0	90.0	87.3	87.1
67.5°	3725.4	3049.3	714.0	208.9	146.3	104.4	89.1	85.1	82.2	79.9	79.7
70°	3908.3	2994.8	443.8	226.0	154.8	96.2	79.5	76.6	74.4	72.8	72.2
71°	*3831.7*	*2843.6*	*372.1*	*224.0*	*153.9*	*92.6*	*75.7*	*73.5*	*71.3*	*69.9*	*69.3*
72.5°	3622.8	2593.3	310.4	208.4	143.9	86.2	70.8	68.6	66.6	65.0	64.6
75°	3250.9	2316.0	248.5	166.6	114.7	72.8	62.1	59.7	58.1	57.2	56.3
77.5°	2389.7	1652.8	192.2	131.6	84.4	59.5	53.0	51.2	49.7	48.3	47.7
80°	915.5	640.2	129.4	98.2	61.9	47.0	42.8	41.9	40.3	39.4	39.4
82.5°	246.5	191.3	69.0	59.5	41.4	34.3	32.7	32.3	31.0	29.2	29.4
85°	99.8	84.4	38.7	32.7	25.4	20.3	22.0	22.3	20.7	18.5	18.7
87.5°	43.9	35.9	21.6	14.5	11.1	7.8	10.0	10.0	9.1	7.6	6.9
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

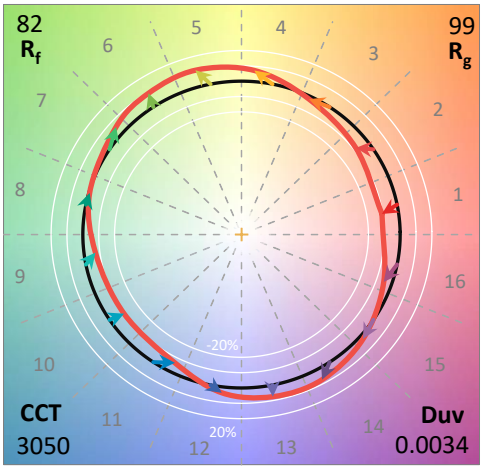
Test Information

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

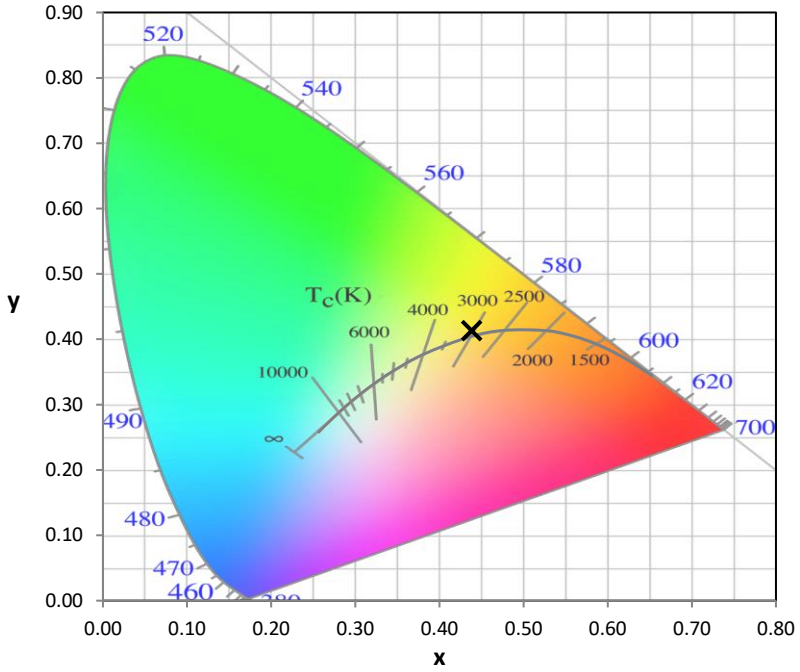
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

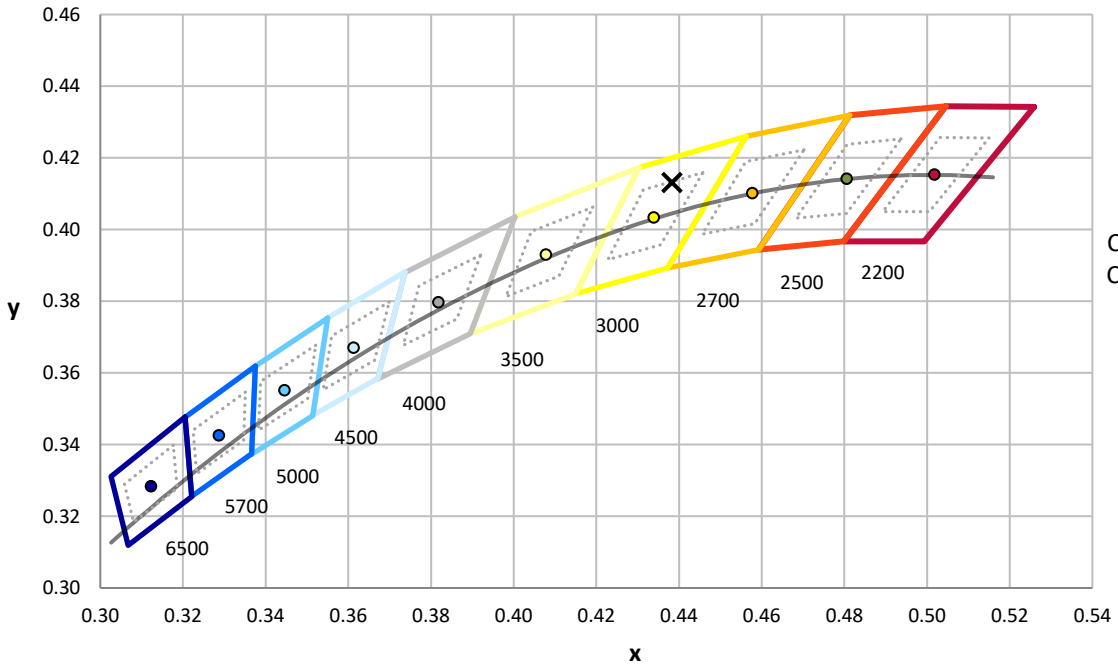
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

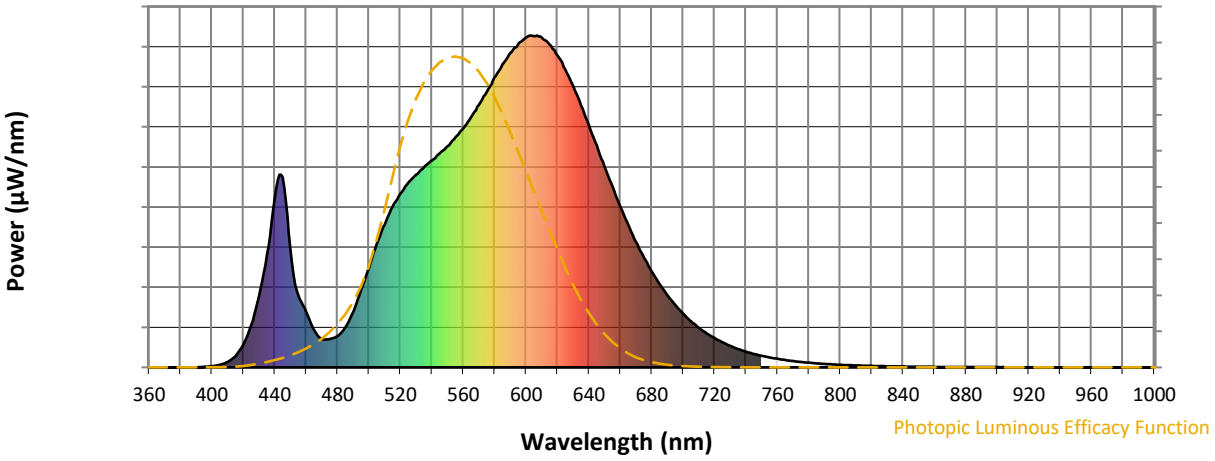


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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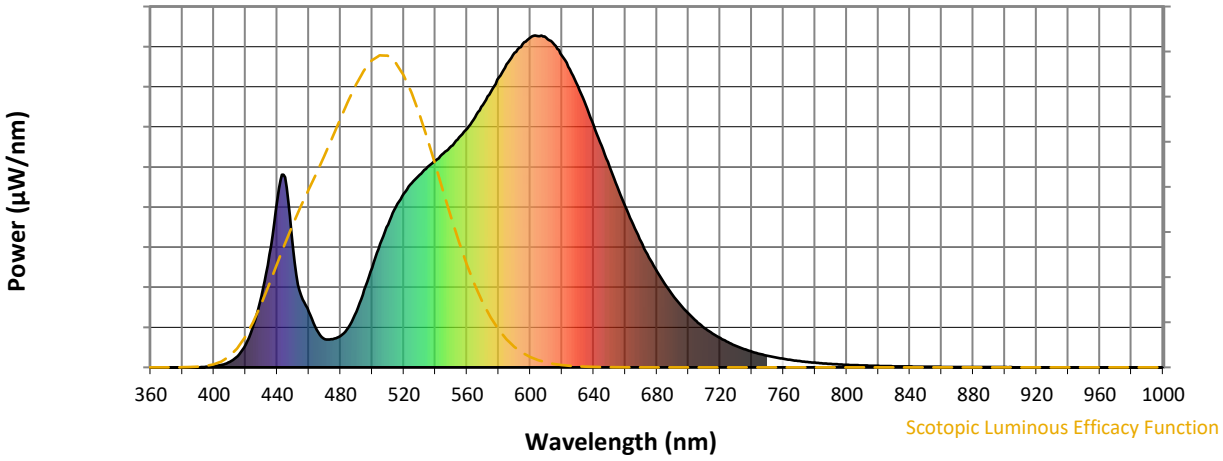
Scotopic Flux vs. Wavelength



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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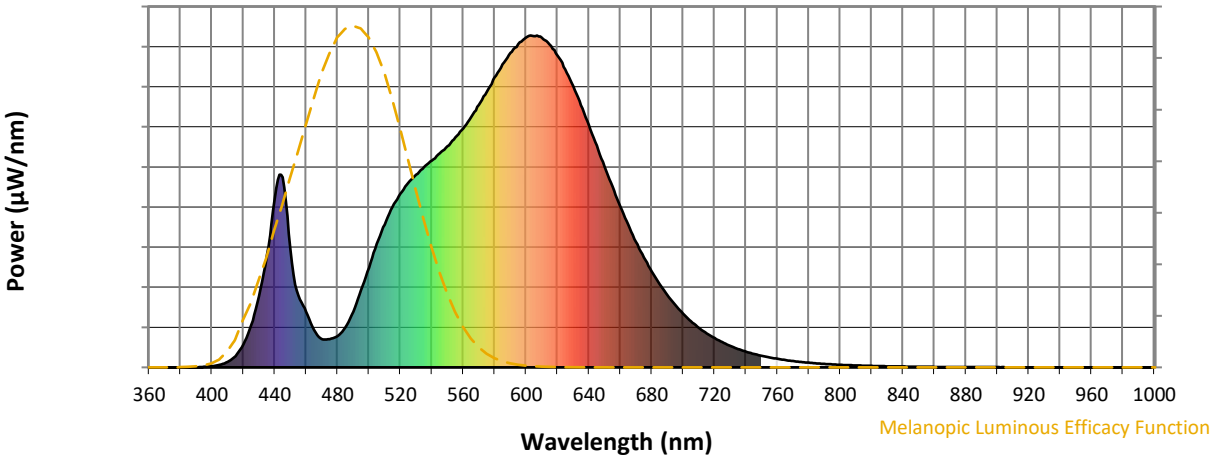
Melanopic Flux vs. Wavelength



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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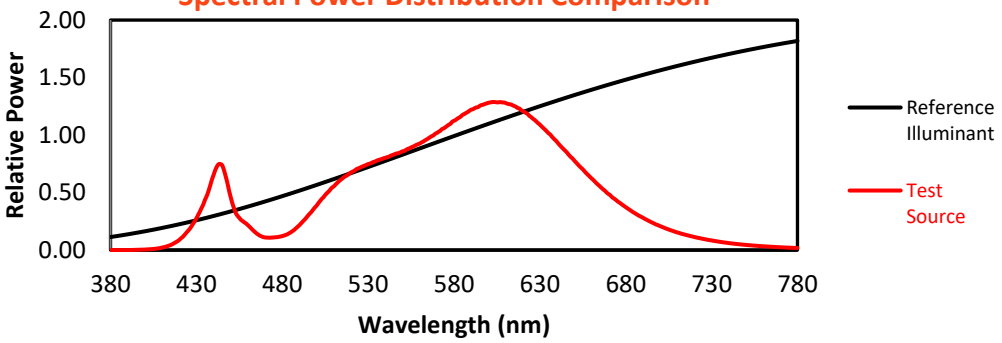
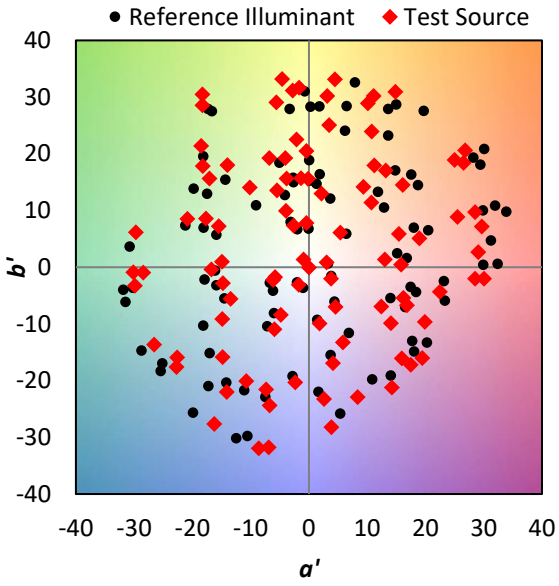
Summary

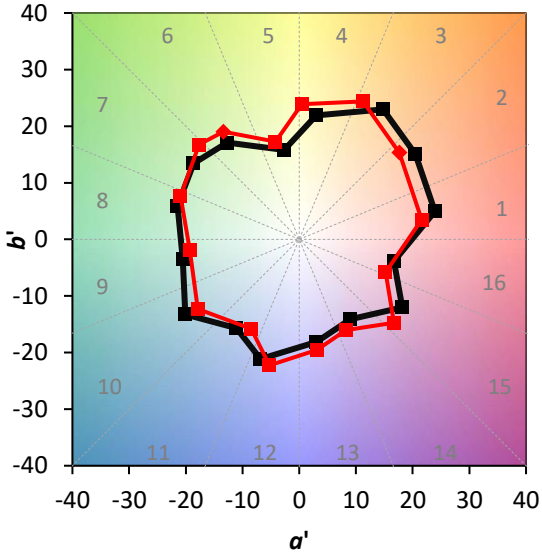
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

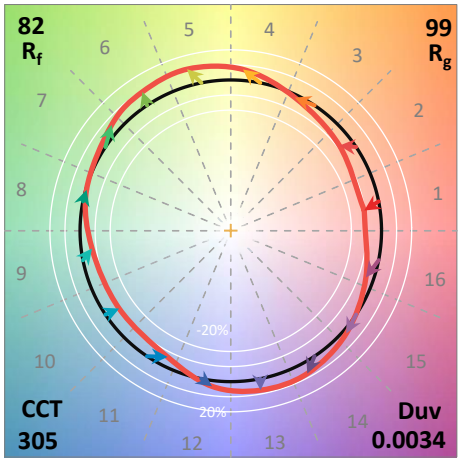
Spectral Power Distribution Comparison

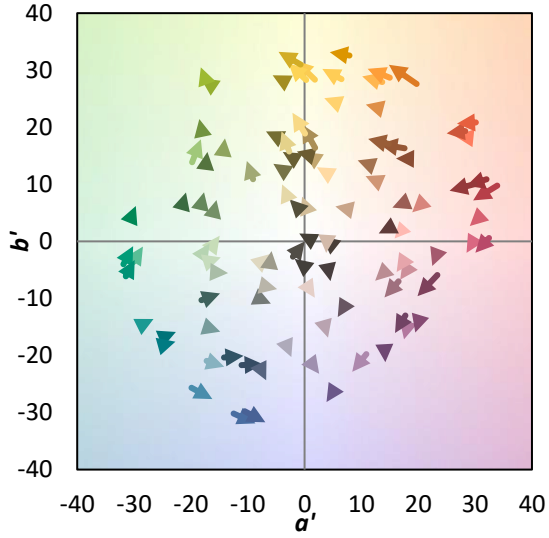


Color Vector Graphics









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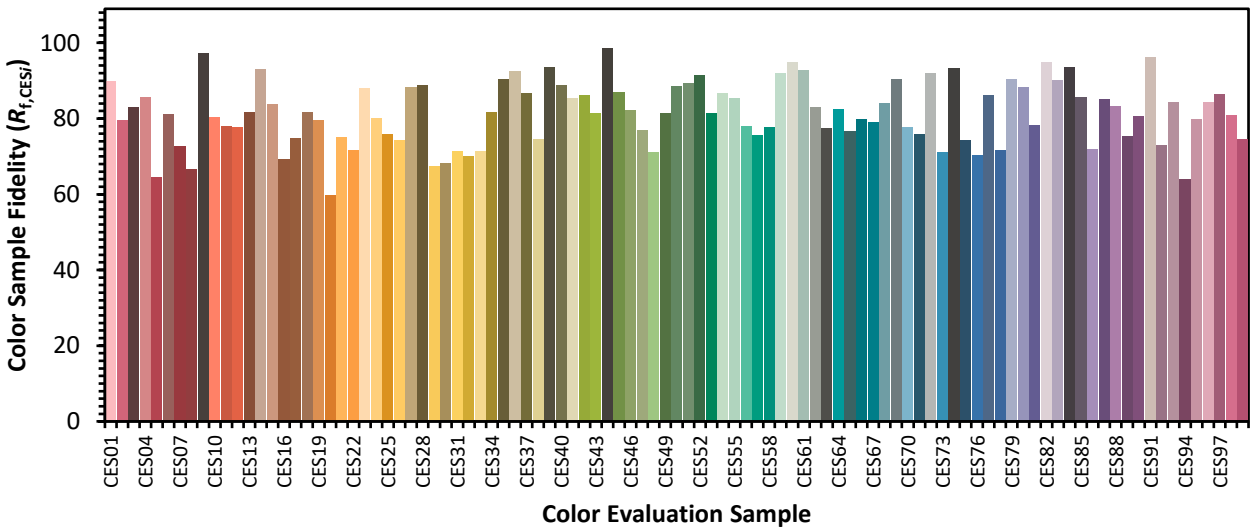
Individual Sample Fidelity Index ($R_{f,i}$)

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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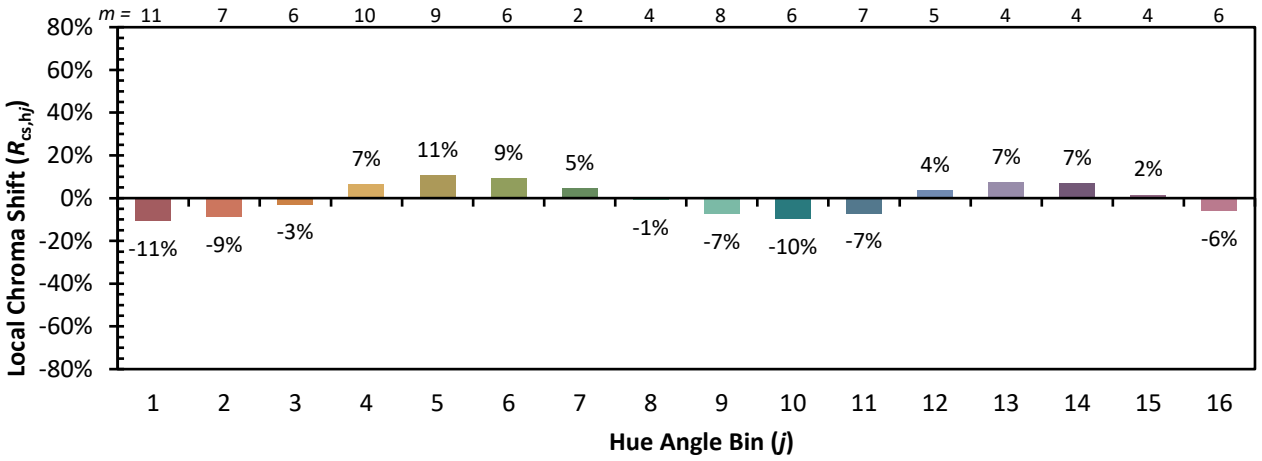
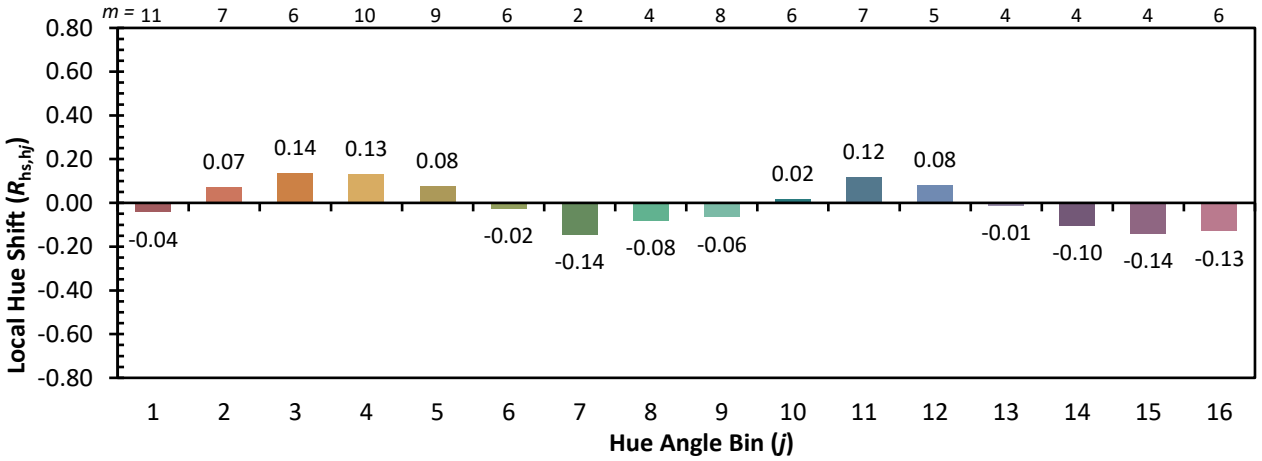
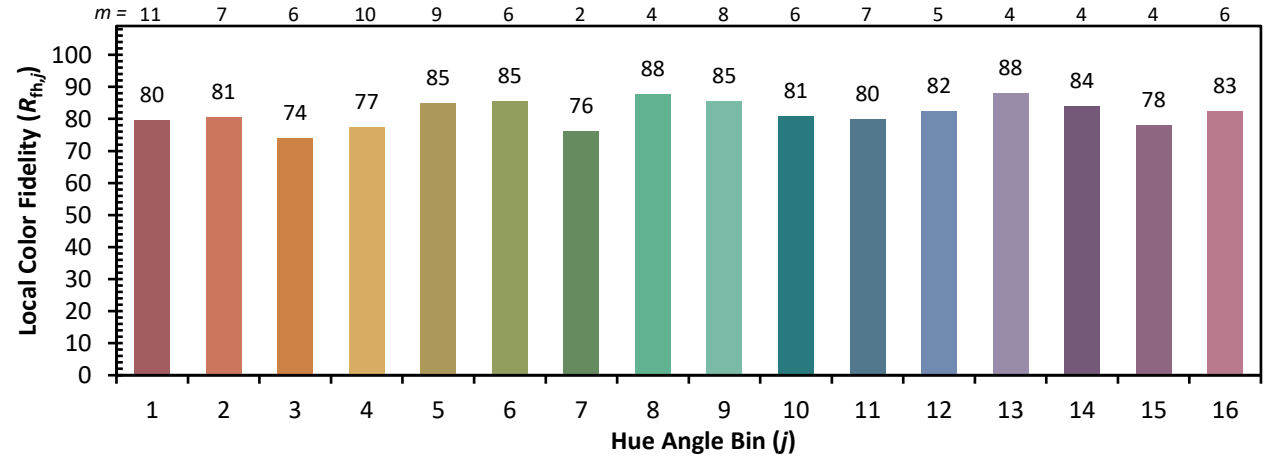
Color Rendition by Hue-Angle Bin







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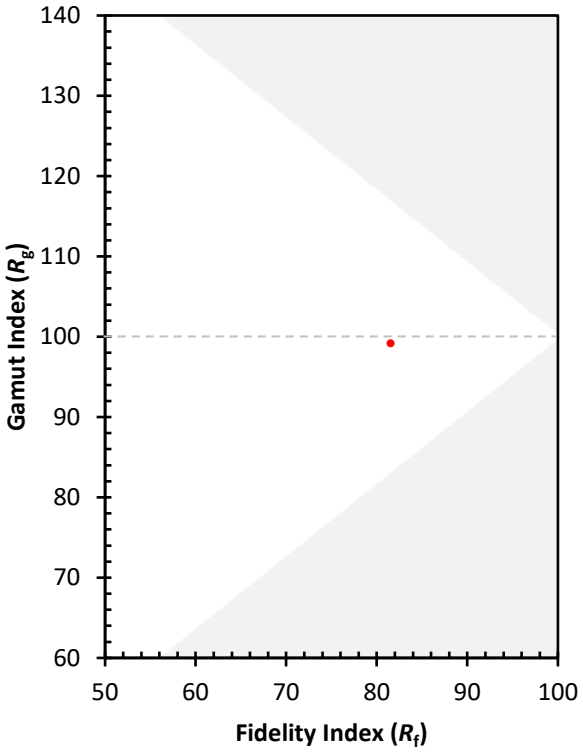
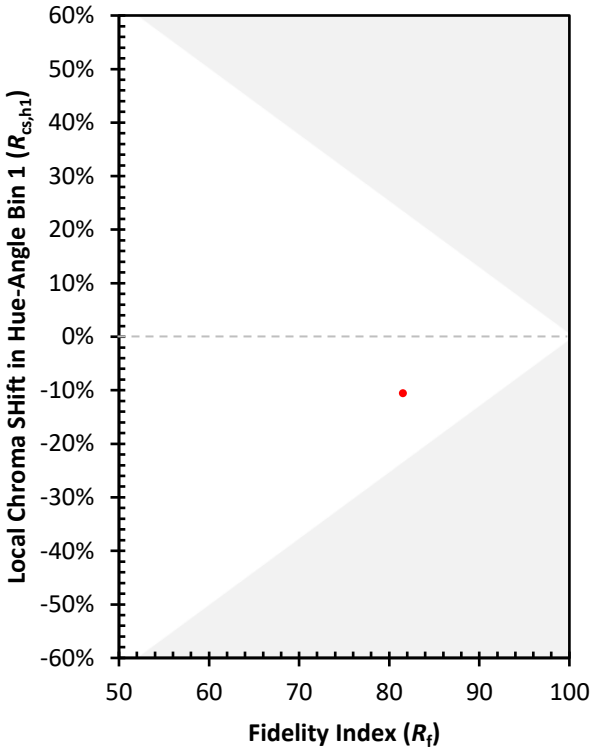
Measure Comparisons





(END OF REPORT)