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: P386741

Luminaire Tested: **GPC-SA2B-830-U-T4W**

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:	P386741
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA2B-830-U-T4W
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9411 lumens
Efficiency:	N/A
Efficacy:	110.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	85
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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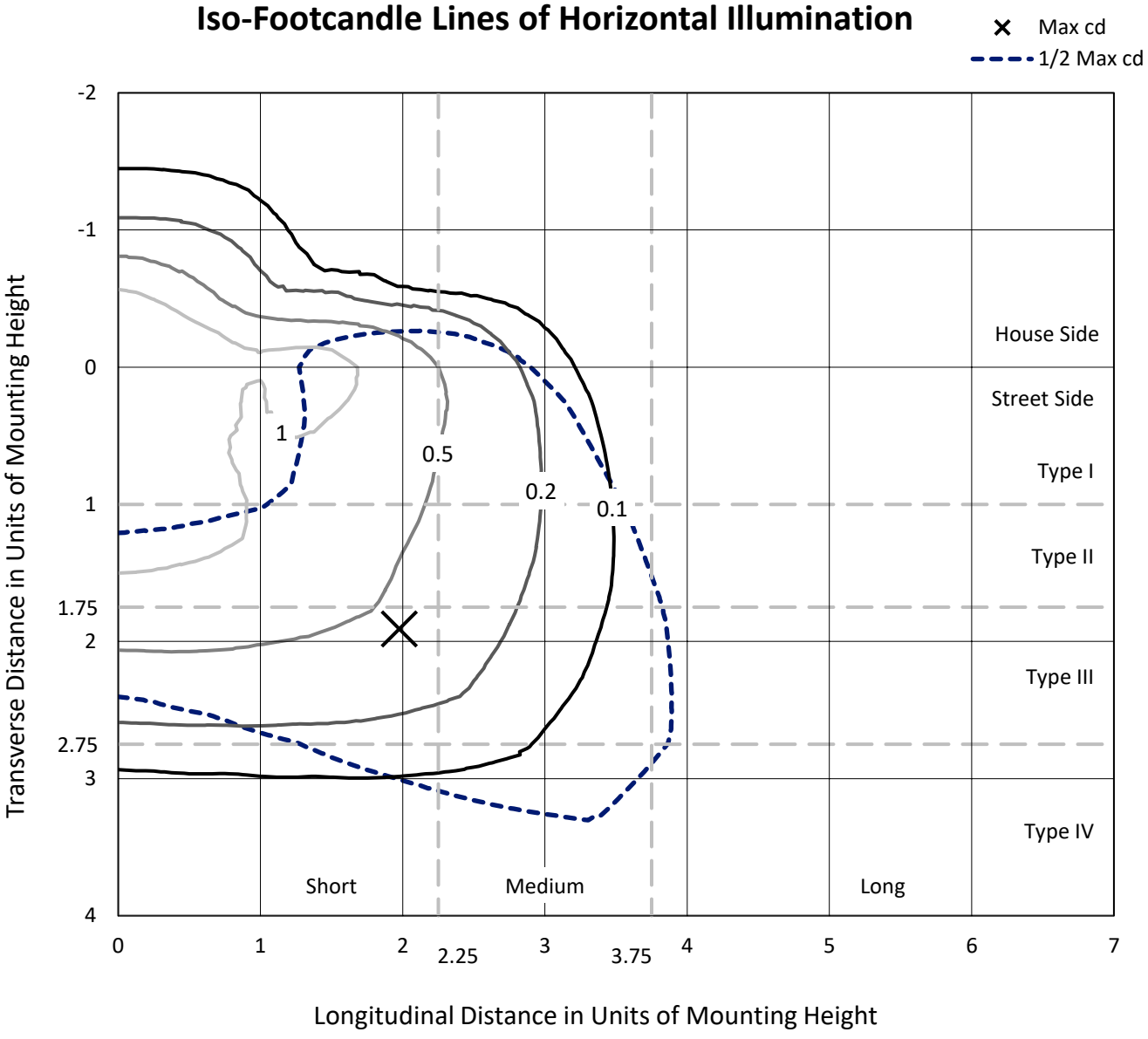
Scaled Data Report

REPORT NUMBER: P386741
CATALOG NUMBER: GPC-SA2B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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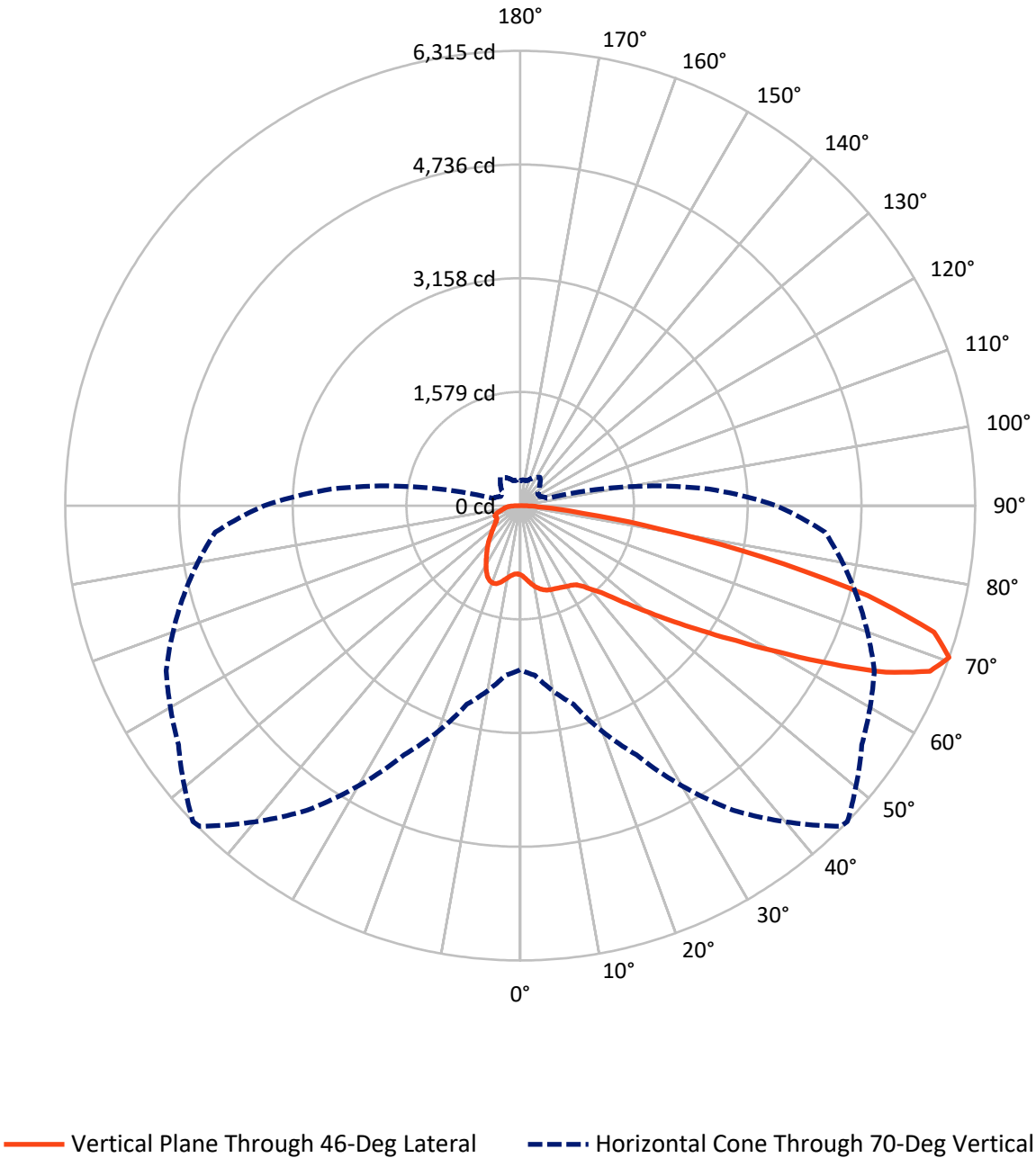
Luminous Intensity Polar Plot



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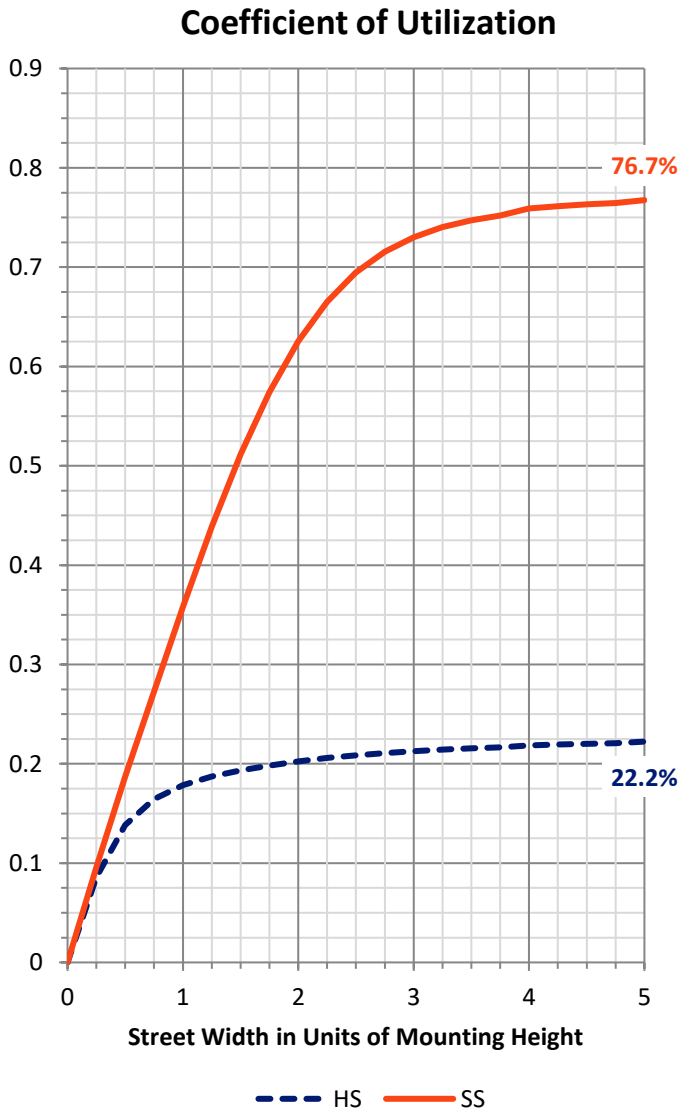
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.0	0.0	2157.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7254.0	0.0	7254.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	9411.0	0.0	9411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.0
10°-20°	325.6	3.5
20°-30°	543.0	5.8
30°-40°	770.5	8.2
40°-50°	1133.4	12.0
50°-60°	1919.4	20.4
60°-70°	2724.6	29.0
70°-80°	1655.2	17.6
80°-90°	241.6	2.6
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°	9411.0	100.0
0°-180°	9411.0	100.0



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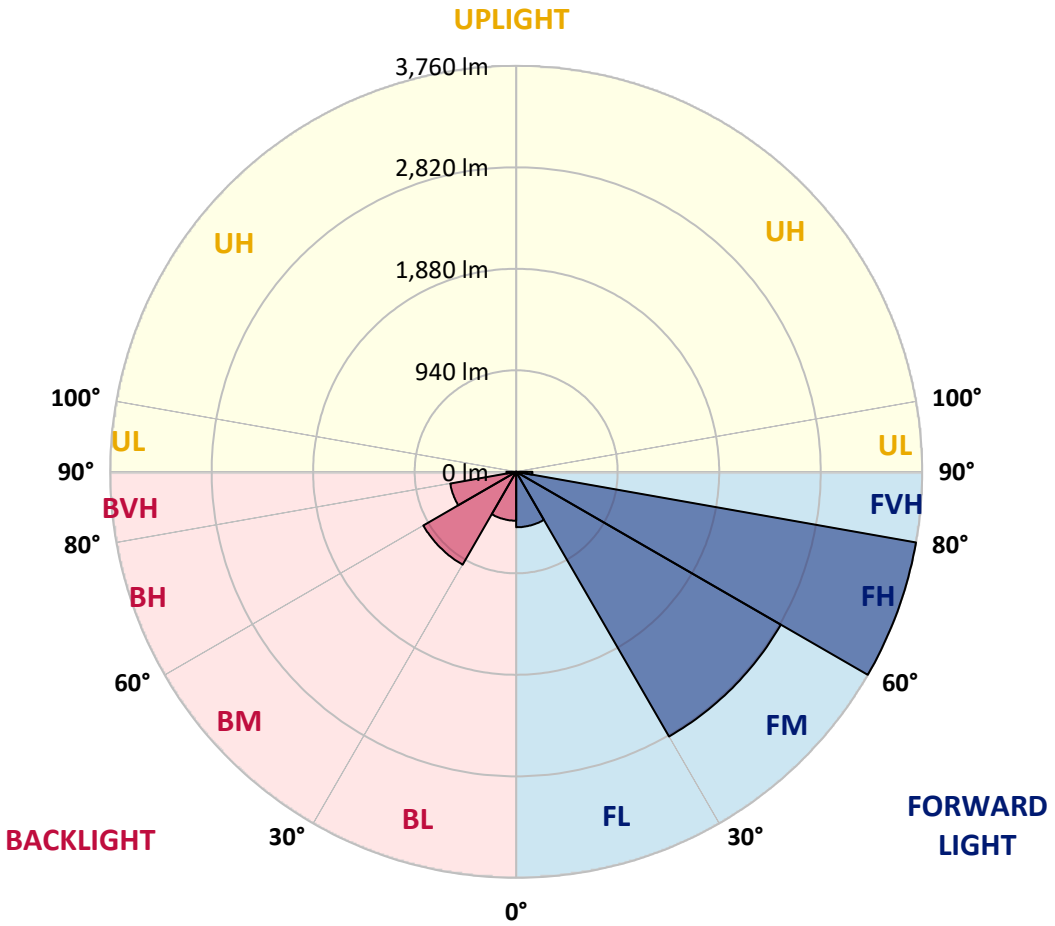
REPORT NUMBER: P386741
CATALOG NUMBER: GPC-SA2B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	513.5	5.5			
FM	(30°-60°)	2830.4	30.1			
FH	(60°-80°)	3759.6	39.9			G2/5000
FVH	(80°-90°)	150.5	1.6			G2/225
BL	(0°-30°)	452.9	4.8	B1/500		
BM	(30°-60°)	992.9	10.6	B1/1000		
BH	(60°-80°)	620.1	6.6	B2/1000		G2/1000
BVH	(80°-90°)	91.1	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type IV Short



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Scaled Data Report

REPORT NUMBER: P386741
CATALOG NUMBER: GPC-SA2B-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	958.8	958.8	958.8	958.8	958.8	958.8	*958.8*	958.8	958.8	958.8	958.8
2.5°	1006.8	1007.4	1008.7	1005.5	996.5	993.9	*992.9*	983.6	977.5	968.5	960.7
5°	1087.3	1087.9	1086.0	1077.0	1057.0	1042.2	*1040.9*	1019.7	1000.3	979.7	964.3
7.5°	1171.4	1172.3	1166.2	1149.1	1121.1	1095.4	*1093.7*	1064.8	1035.4	1004.2	981.0
10°	1245.8	1241.9	1231.9	1208.1	1174.9	1143.3	*1142.1*	1111.8	1078.0	1040.3	1009.4
12.5°	1295.4	1292.1	1279.3	1250.3	1213.9	1184.9	*1182.3*	1154.3	1121.4	1080.2	1043.2
15°	1322.7	1325.0	1307.6	1274.7	1239.3	1214.8	*1212.6*	1192.6	1163.3	1121.8	1079.3
17.5°	1326.3	1328.2	1311.5	1278.9	1249.9	1233.2	*1232.2*	1219.0	1197.8	1157.8	1113.4
20°	1305.7	1307.0	1293.1	1266.4	1247.4	1242.2	*1241.9*	1236.1	1220.3	1184.9	1141.7
22.5°	1275.7	1276.7	1266.7	1247.4	1240.9	1249.0	*1251.2*	1249.0	1237.7	1204.5	1164.0
25°	1268.3	1267.7	1257.4	1237.7	1243.2	1260.3	*1263.2*	1264.1	1256.4	1227.4	1192.3
27.5°	1304.1	1301.8	1282.2	1250.6	1254.1	1274.7	*1278.6*	1288.0	1283.1	1257.7	1224.5
30°	1407.4	1403.6	1363.3	1299.5	1282.2	1292.8	*1297.6*	1312.4	1313.4	1292.1	1267.3
32.5°	1582.0	1577.2	1505.0	1391.0	1329.5	1311.1	*1315.6*	1337.9	1349.8	1333.4	1306.6
35°	1802.6	1797.1	1702.5	1546.6	1408.7	1346.2	*1349.5*	1367.2	1391.0	1367.8	1332.4
37.5°	2032.6	2019.4	1928.2	1729.5	1534.7	1421.3	*1421.3*	1423.5	1434.8	1386.5	1362.7
40°	2261.2	2248.0	2165.6	1944.6	1697.6	1539.5	*1532.1*	1482.2	1473.1	1431.6	1423.5
42.5°	2473.8	2469.9	2421.3	2187.8	1888.9	1655.8	*1645.4*	1560.7	1562.7	1536.9	1537.2
45°	2699.9	2699.9	2660.3	2433.2	2111.8	1842.6	*1832.2*	1707.6	1726.9	1715.0	1743.7
47.5°	2884.4	2890.2	2884.8	2688.9	2371.1	2079.9	*2061.2*	1911.2	1965.3	2006.2	2089.6
50°	3072.9	3081.9	3082.8	2969.5	2684.4	2362.0	*2340.8*	2181.4	2302.1	2419.4	2583.3
52.5°	3346.3	3366.6	3285.7	3249.3	3068.3	2697.0	*2676.1*	2528.9	2730.5	2895.1	3177.5
55°	3599.8	3582.0	3524.4	3546.9	3479.3	3078.3	*3062.5*	2933.4	3207.8	3421.7	3788.5
57.5°	3737.0	3735.7	3793.6	3890.3	3922.5	3548.5	*3535.3*	3409.7	3746.0	3906.7	4362.1
60°	3898.0	3900.2	4043.9	4263.2	4395.9	4134.1	*4128.3*	4032.9	4268.7	4359.5	4812.0
62.5°	3920.5	3961.1	4208.5	4585.9	4839.1	4818.1	*4831.0*	4594.3	4736.3	4720.9	5147.9
65°	3661.3	3714.7	4162.4	4683.5	5279.7	5566.3	*5578.2*	5158.9	5105.1	5029.7	5268.1
67.5°	3129.9	3209.1	3695.4	4471.3	5424.9	6119.3	*6136.0*	5596.6	5411.1	5134.4	4978.9
70°	*2277.7*	*2365.6*	*2855.1*	*3818.8*	*5166.0*	*6296.1*	*6315.1*	*5790.1*	*5422.7*	*4836.5*	*4250.3*
72.5°	1375.9	1444.8	1848.3	2811.3	4360.2	5974.0	*6007.9*	5544.7	4950.8	4096.7	3138.6
75°	604.2	649.3	893.7	1620.0	3121.5	4942.8	*4985.0*	4746.0	4022.6	2977.2	1855.1
77.5°	257.3	270.2	366.5	703.7	1764.6	3377.5	*3435.5*	3467.7	2729.2	1620.0	783.9
80°	160.4	165.5	207.4	318.5	825.8	1897.0	*1959.5*	2040.3	1355.3	595.5	273.8
82.5°	97.6	103.4	137.8	192.6	430.0	859.9	*889.9*	946.9	525.9	257.3	141.7
85°	58.6	62.8	84.4	121.7	244.8	338.2	*337.8*	373.6	247.7	165.5	74.7
87.5°	28.0	31.2	45.1	63.1	123.4	126.9	*118.8*	134.6	150.4	108.5	37.7
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: P386741
CATALOG NUMBER: GPC-SA2B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	958.2	956.9	952.7	949.5	948.8	946.9	945.3	946.2	947.5	947.8	947.8
5°	957.8	954.3	948.8	946.6	949.5	953.3	958.2	964.6	968.5	971.4	973.3
7.5°	973.3	966.5	960.4	959.1	964.9	975.2	986.2	999.7	1009.0	1015.5	1016.8
10°	999.1	990.7	984.6	985.9	996.2	1011.0	1026.4	1043.8	1058.0	1066.7	1067.3
12.5°	1028.7	1020.6	1014.8	1020.3	1037.4	1055.4	1071.5	1086.7	1099.5	1108.2	1108.2
15°	1062.8	1057.0	1050.3	1062.8	1086.0	1102.1	1108.9	1116.3	1123.4	1129.8	1128.5
17.5°	1095.7	1090.2	1086.7	1101.5	1125.6	1133.0	1128.5	1123.1	1123.1	1126.6	1127.2
20°	1124.0	1119.2	1121.4	1135.9	1148.5	1140.8	1124.0	1106.6	1099.5	1101.5	1103.4
22.5°	1148.8	1146.6	1153.3	1160.1	1151.1	1124.0	1093.1	1069.6	1060.9	1060.2	1060.9
25°	1177.8	1177.5	1185.9	1173.6	1133.7	1083.8	1042.2	1019.3	1014.5	1018.4	1024.8
27.5°	1213.9	1217.4	1221.6	1176.8	1098.3	1022.9	980.7	964.9	969.7	979.1	985.2
30°	1259.9	1269.6	1260.6	1168.8	1047.4	953.3	913.1	908.6	921.8	935.0	941.4
32.5°	1304.7	1319.8	1297.9	1147.9	981.7	879.6	848.3	847.0	863.1	876.0	885.0
35°	1340.8	1370.7	1326.0	1106.3	905.7	811.6	788.7	780.0	785.8	801.0	811.3
37.5°	1387.8	1437.7	1345.3	1042.9	823.2	755.6	728.8	708.9	703.7	709.8	715.0
40°	1473.8	1539.8	1354.3	954.3	742.7	699.5	672.5	643.2	622.9	608.1	608.4
42.5°	1614.2	1672.8	1348.5	846.7	668.3	644.8	614.2	580.4	547.5	514.0	511.4
45°	1842.2	1870.6	1331.1	732.7	602.9	587.5	558.8	525.0	481.2	443.2	439.6
47.5°	2207.1	2144.3	1304.1	633.2	545.3	538.8	512.4	473.4	427.1	396.5	393.9
50°	2704.7	2539.5	1290.8	554.0	494.4	496.3	474.7	433.5	389.7	367.2	364.6
52.5°	3299.9	2999.7	1316.3	492.8	453.5	460.2	444.1	405.5	368.8	351.1	348.5
55°	3917.3	3476.4	1343.7	448.3	414.8	428.0	422.6	390.7	357.5	341.1	338.8
57.5°	4445.8	3832.3	1288.9	412.2	380.4	401.0	405.8	381.3	351.7	336.9	334.3
60°	4778.5	3975.6	1145.3	378.4	353.0	379.4	396.1	378.8	354.0	352.7	350.7
62.5°	4936.3	3963.0	929.8	351.7	335.9	370.1	403.2	393.2	379.7	391.3	392.3
65°	4865.5	3773.7	692.4	334.0	323.7	373.6	424.5	420.6	387.1	398.7	400.3
67.5°	4399.1	3321.8	512.7	318.5	310.2	383.6	463.1	429.6	372.6	381.0	375.9
70°	*3555.6*	*2633.6*	*395.5*	*301.1*	*296.3*	*382.3*	*480.5*	*424.2*	*356.9*	*358.8*	*344.9*
72.5°	2451.9	1795.9	321.7	285.0	276.3	348.5	468.3	410.6	343.6	328.8	310.5
75°	1333.4	963.9	273.4	268.3	241.2	306.0	445.7	401.0	331.7	312.1	301.8
77.5°	524.6	400.0	237.4	245.4	211.0	270.2	420.6	382.6	315.3	289.5	284.4
80°	214.2	204.2	196.8	212.2	181.3	236.4	390.3	361.0	295.7	268.6	258.3
82.5°	121.4	126.9	153.0	167.5	147.2	217.7	375.9	343.6	272.1	240.6	228.3
85°	62.2	74.4	106.6	120.1	108.2	185.2	346.2	300.8	218.4	184.2	185.2
87.5°	30.0	41.5	67.3	75.4	70.2	134.0	258.6	218.0	170.1	134.6	130.4
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

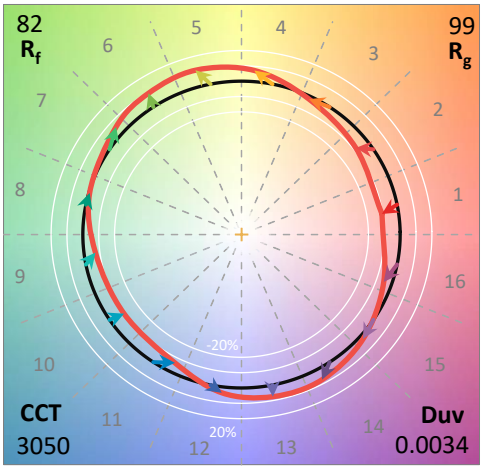
Test Information

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

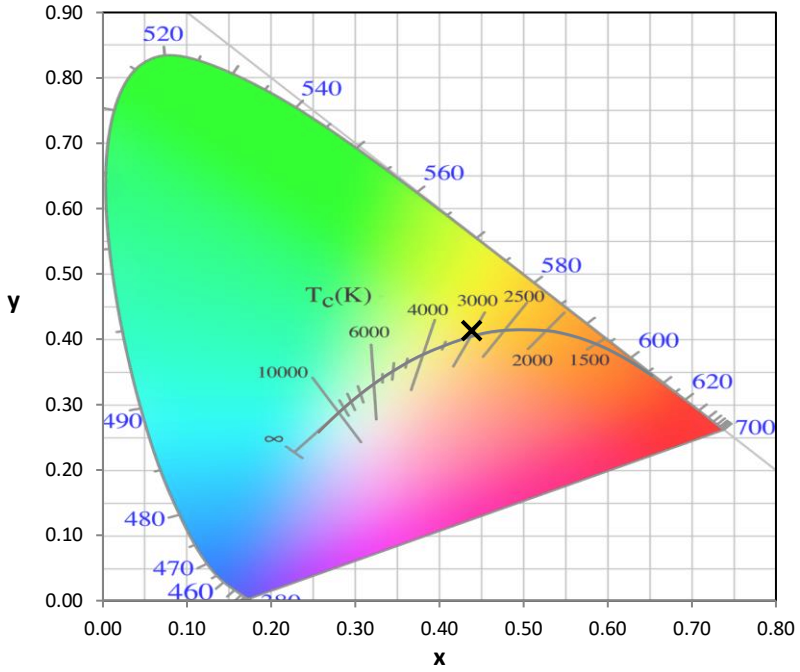
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

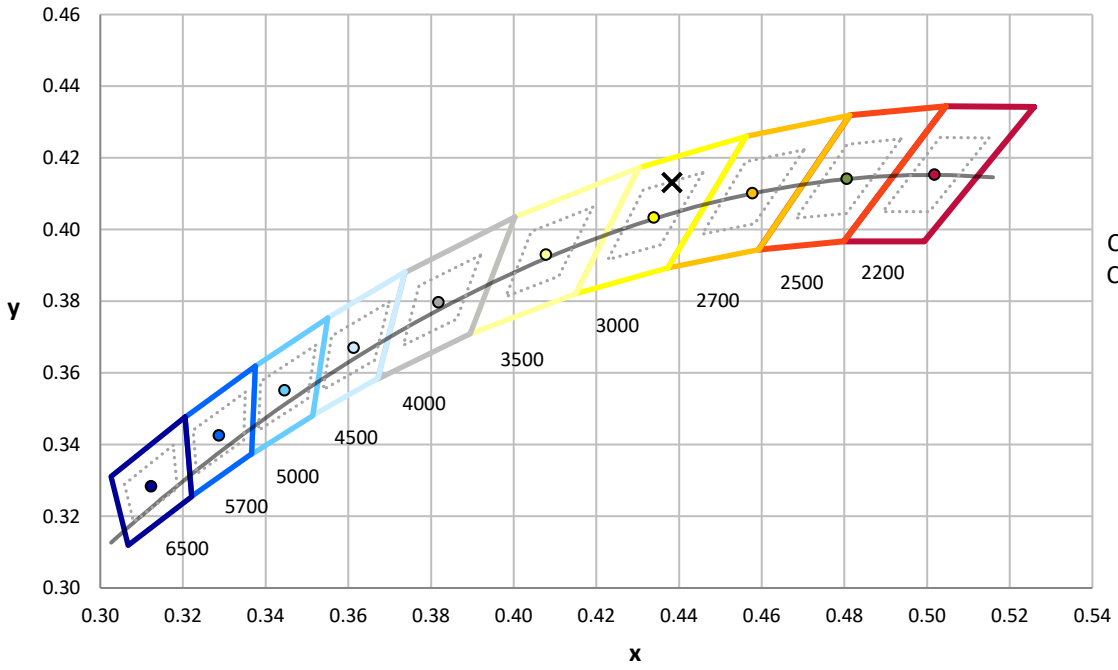
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

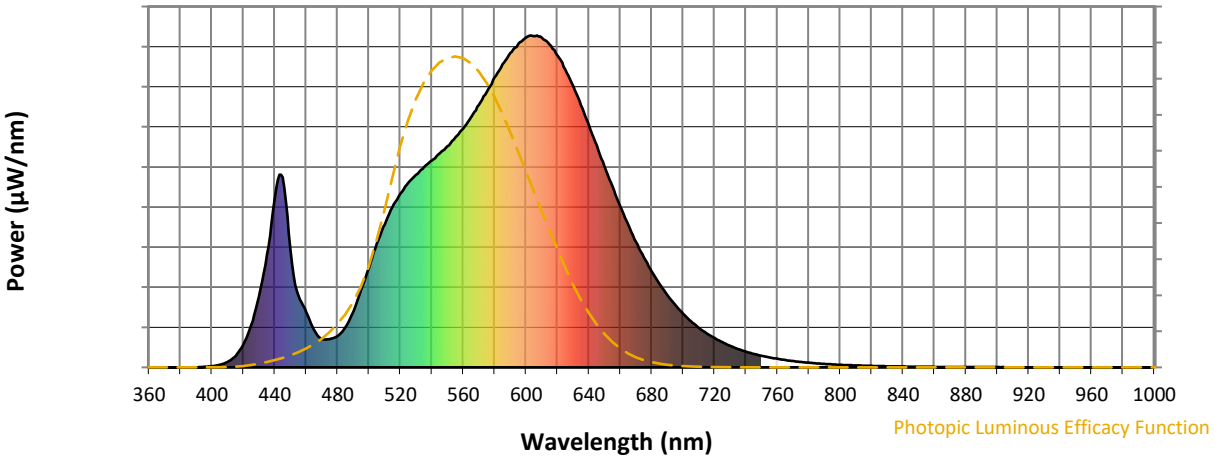


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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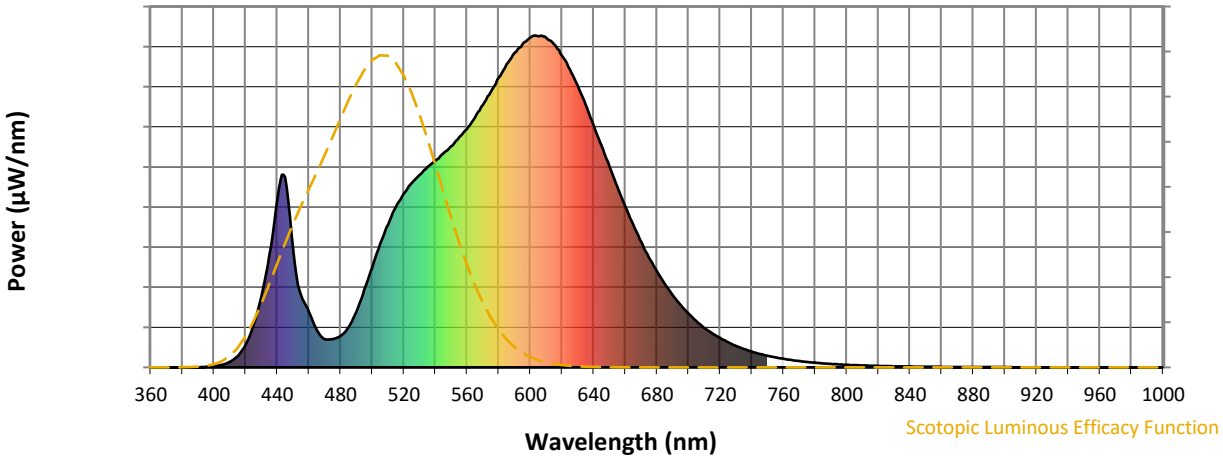
Scotopic Flux vs. Wavelength



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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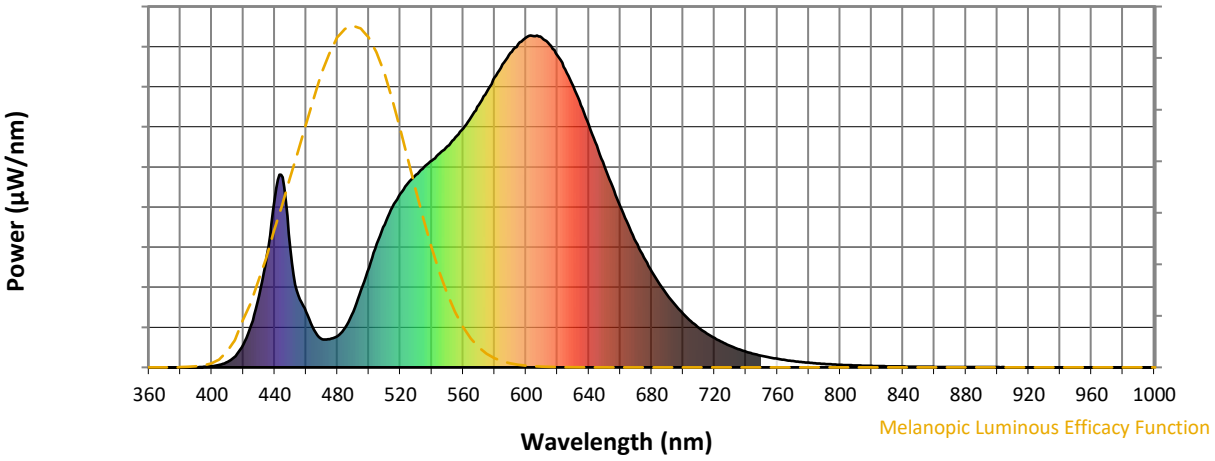
Melanopic Flux vs. Wavelength



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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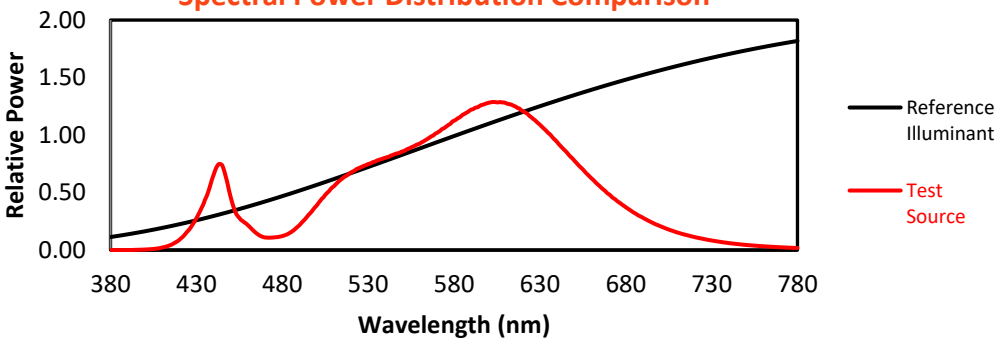
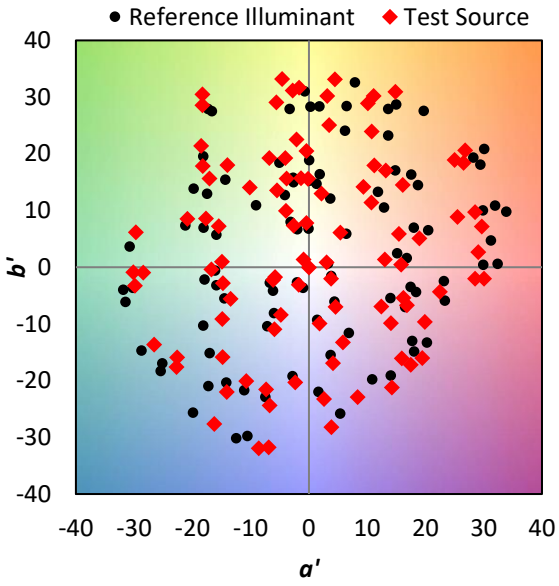
Summary

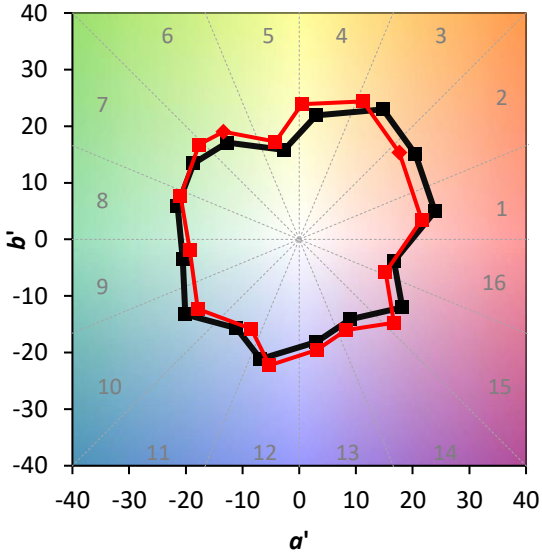
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

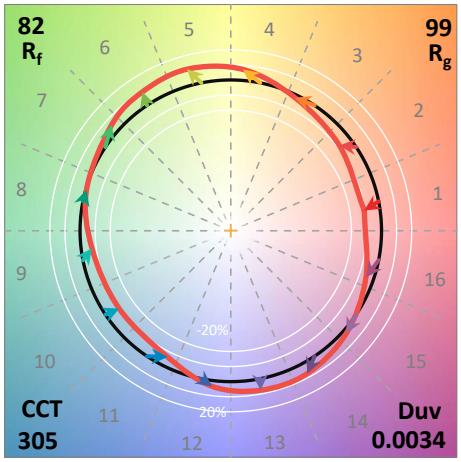
Spectral Power Distribution Comparison

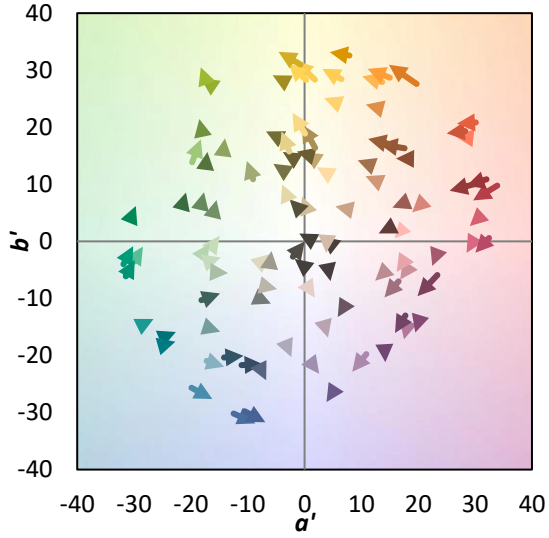


Color Vector Graphics









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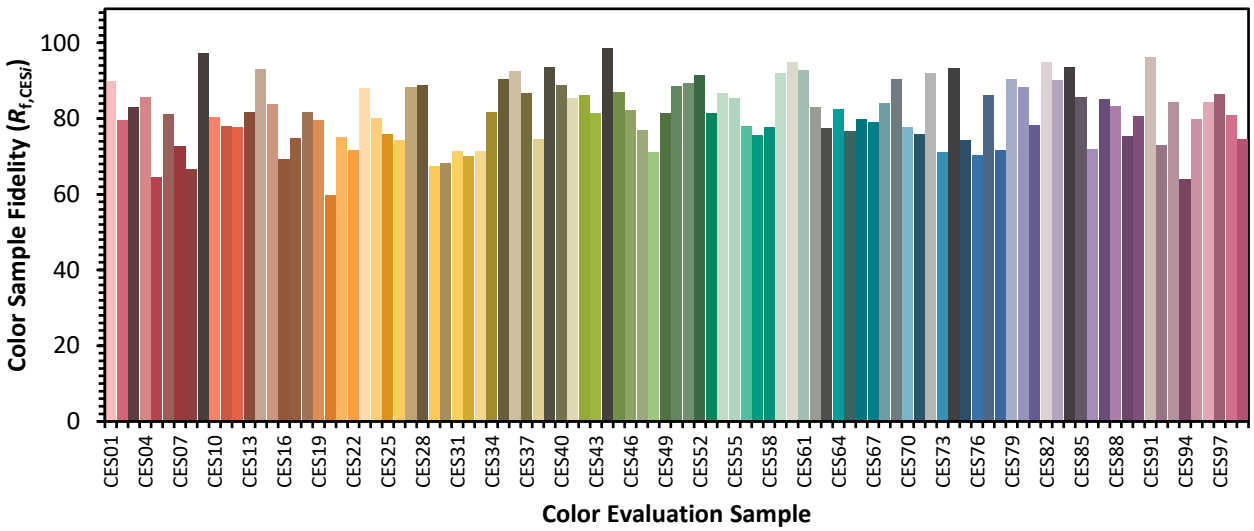
Individual Sample Fidelity Index ($R_{f,i}$)

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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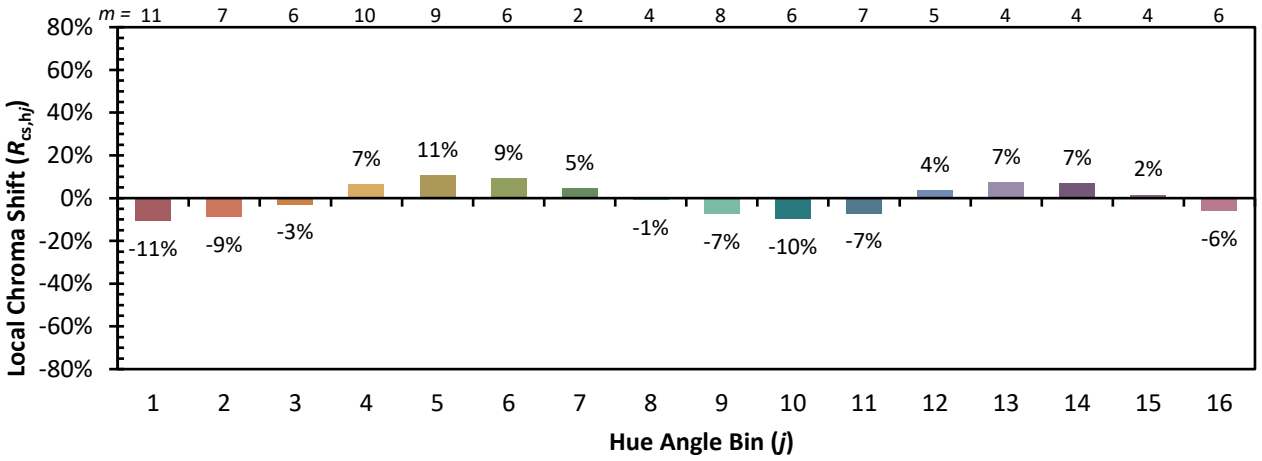
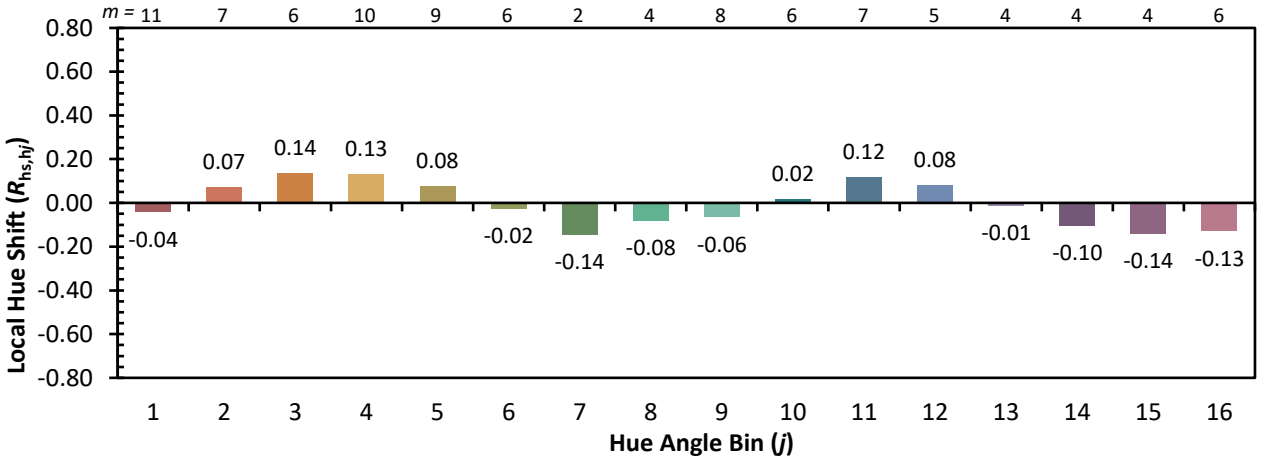
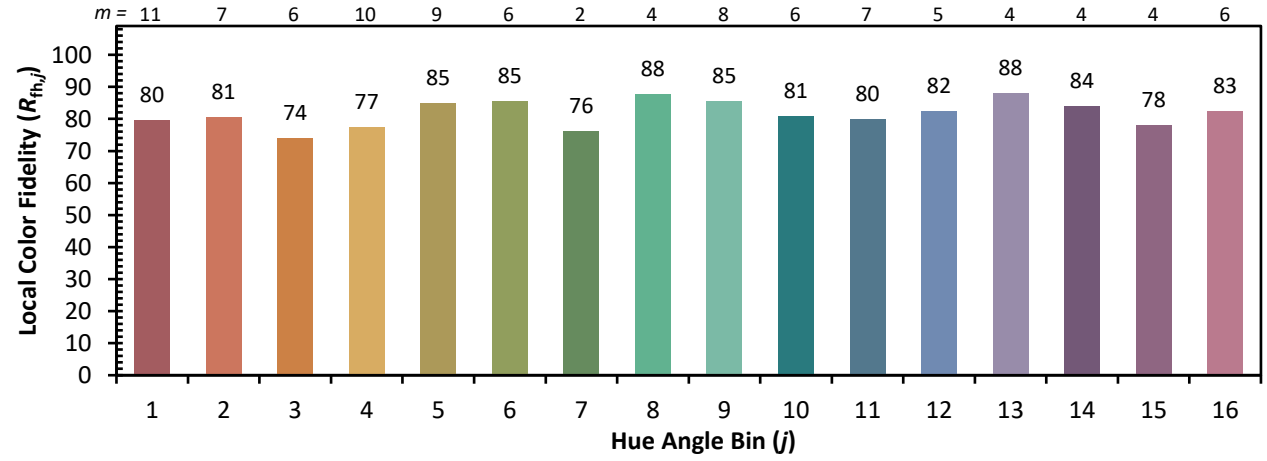
Color Rendition by Hue-Angle Bin







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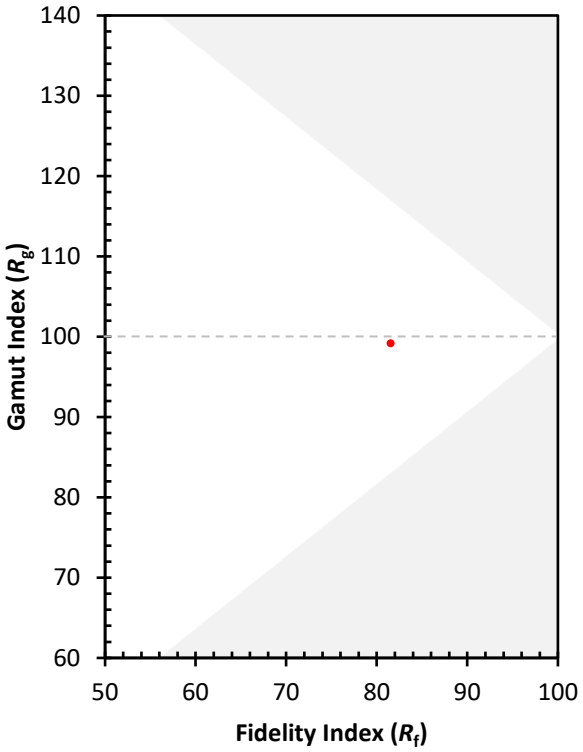
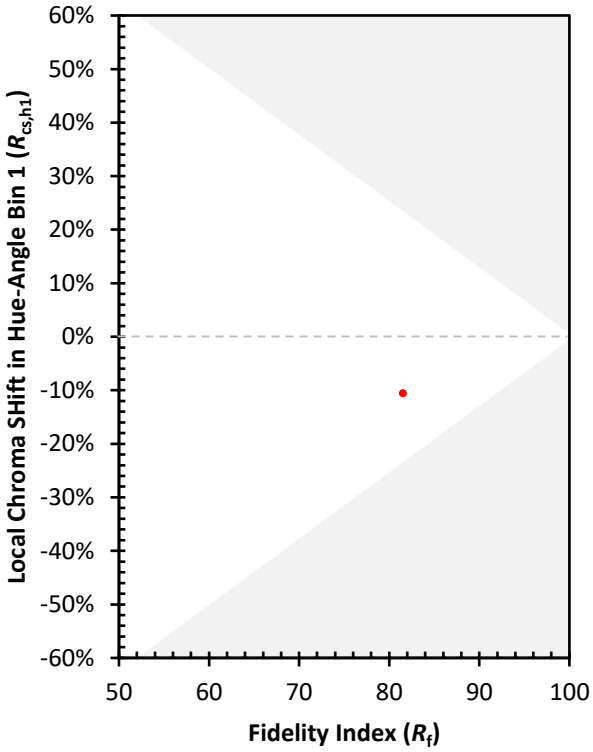
Measure Comparisons





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