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: P319196

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

Issue Date: 3/3/2020

Report Generated By E0585644

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:	P319196
	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:	GLEON-SA2B-830-U-T4W
Description:	GALLEON AREA AND ROADWAY 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:	9226 lumens
Efficiency:	N/A
Efficacy:	108.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' 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:	24 FT

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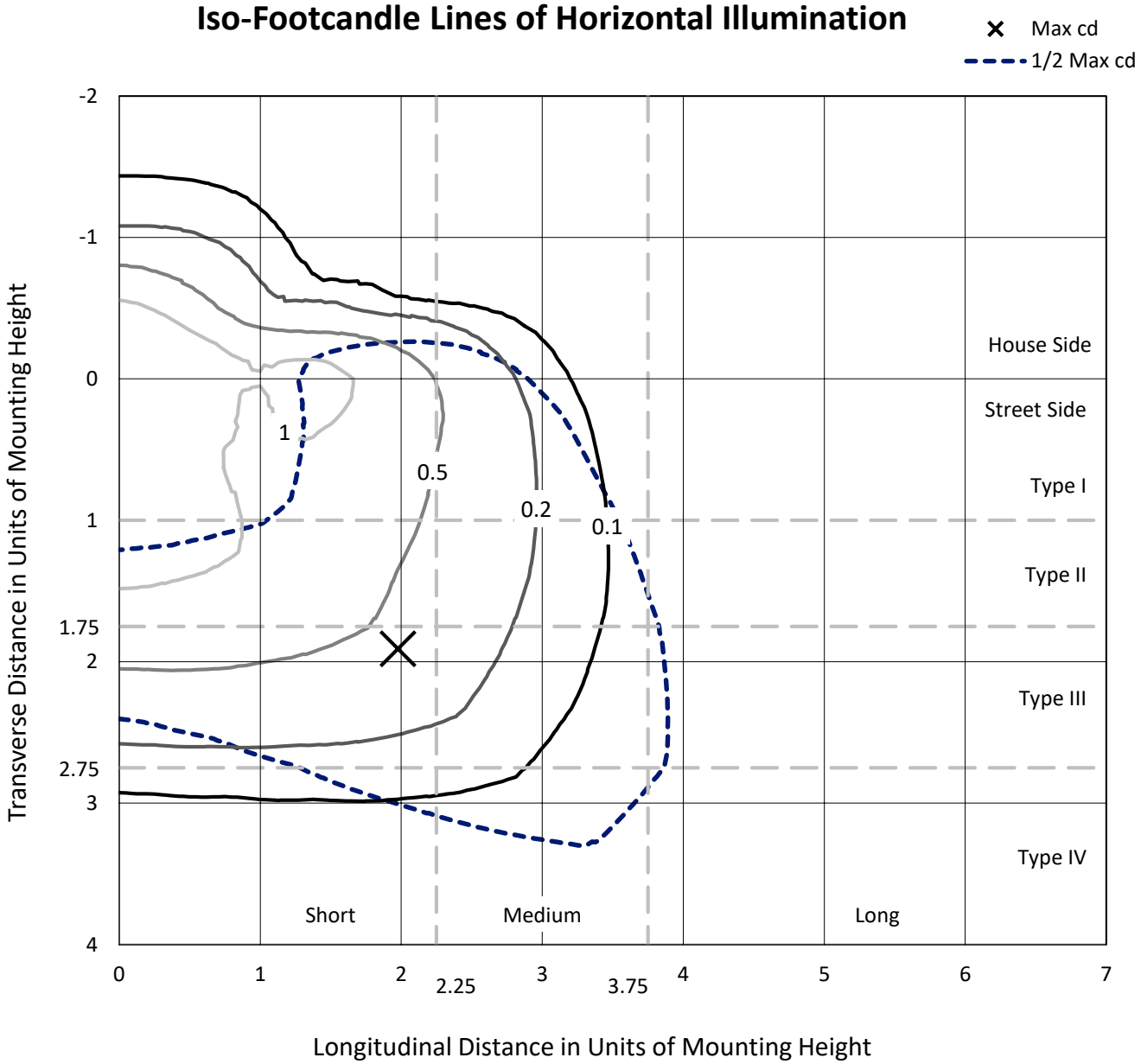
Scaled Data Report

REPORT NUMBER: P319196
CATALOG NUMBER: GLEON-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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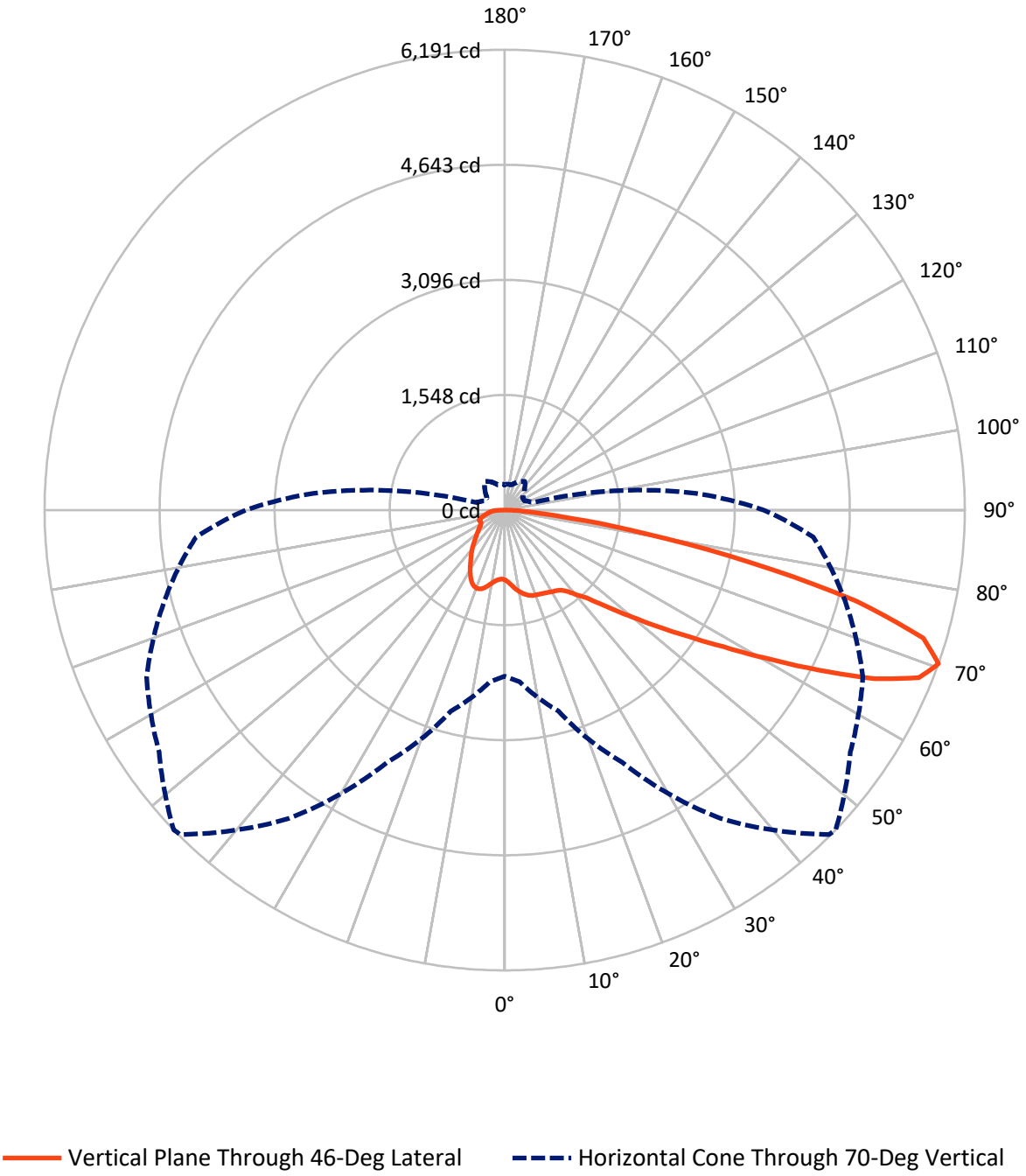
Luminous Intensity Polar Plot



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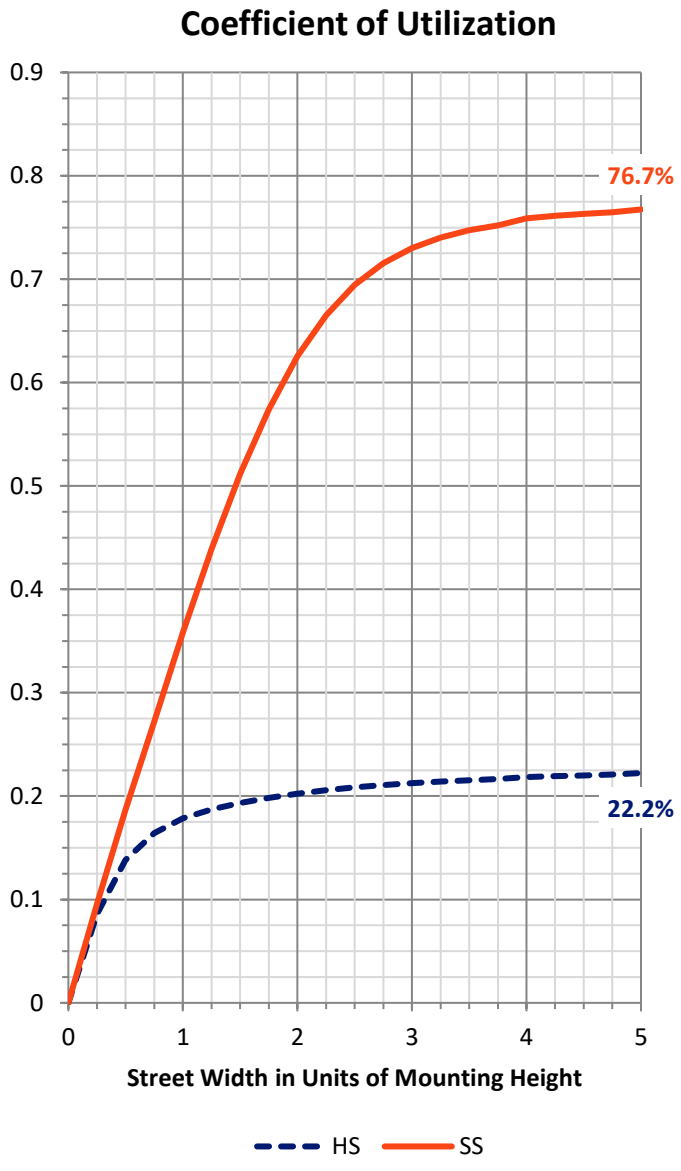
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2114.6	0.0	2114.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7111.4	0.0	7111.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	9226.0	0.0	9226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.0
10°-20°	319.2	3.5
20°-30°	532.3	5.8
30°-40°	755.4	8.2
40°-50°	1111.1	12.0
50°-60°	1881.7	20.4
60°-70°	2671.0	29.0
70°-80°	1622.7	17.6
80°-90°	236.8	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°	9226.0	100.0
0°-180°	9226.0	100.0



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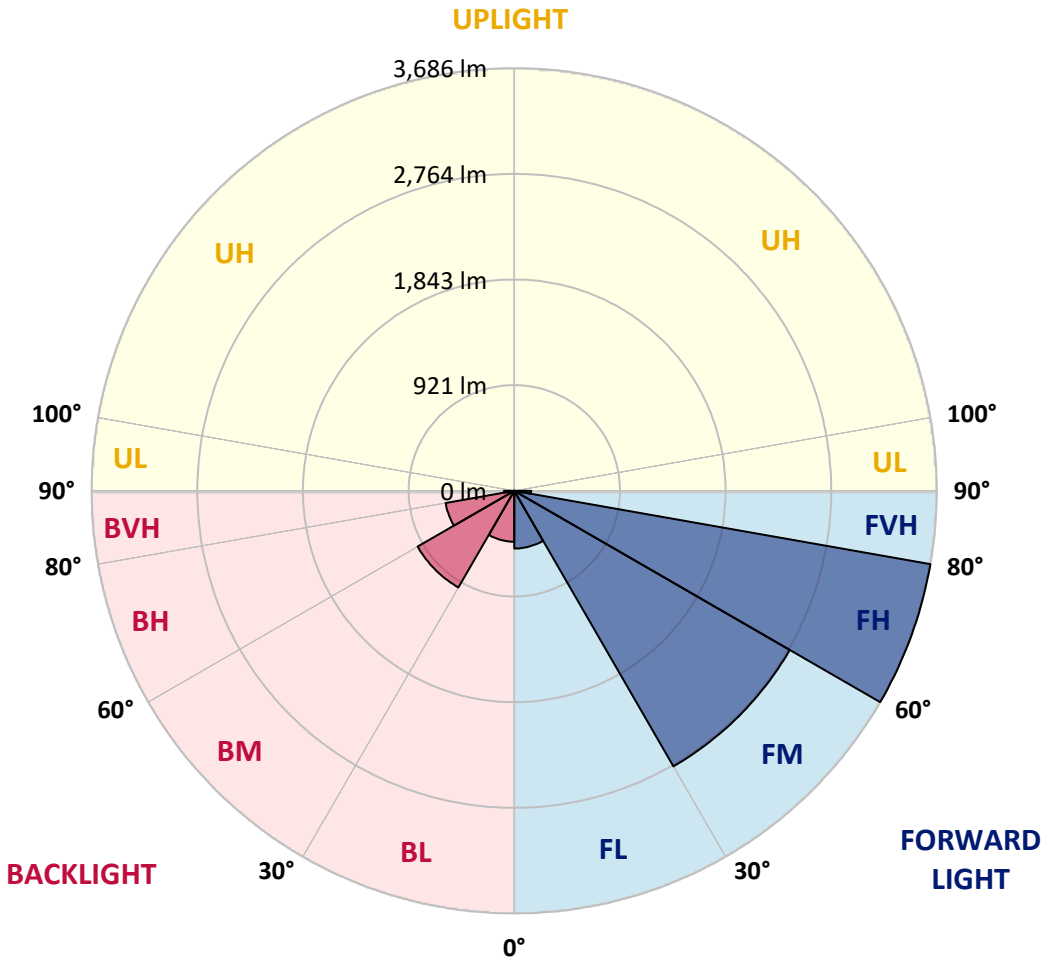
REPORT NUMBER: P319196
CATALOG NUMBER: GLEON-SA2B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	503.4	5.5			
FM	(30°-60°)	2774.8	30.1			
FH	(60°-80°)	3685.7	39.9			G2/5000
FVH	(80°-90°)	147.5	1.6			G2/225
BL	(0°-30°)	444.0	4.8	B1/500		
BM	(30°-60°)	973.4	10.6	B1/1000		
BH	(60°-80°)	607.9	6.6	B2/1000		G2/1000
BVH	(80°-90°)	89.3	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: P319196
CATALOG NUMBER: GLEON-SA2B-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	939.9	939.9	939.9	939.9	939.9	939.9	*939.9*	939.9	939.9	939.9	939.9
2.5°	987.0	987.6	988.9	985.7	976.9	974.4	*973.4*	964.3	958.3	949.4	941.8
5°	1065.9	1066.6	1064.7	1055.8	1036.2	1021.7	*1020.5*	999.6	980.7	960.5	945.3
7.5°	1148.3	1149.3	1143.3	1126.5	1099.1	1073.8	*1072.2*	1043.8	1015.1	984.5	961.7
10°	1221.3	1217.5	1207.7	1184.3	1151.8	1120.9	*1119.6*	1089.9	1056.8	1019.8	989.5
12.5°	1269.9	1266.7	1254.1	1225.7	1190.0	1161.6	*1159.1*	1131.6	1099.4	1059.0	1022.7
15°	1296.7	1298.9	1281.9	1249.7	1215.0	1191.0	*1188.7*	1169.2	1140.4	1099.7	1058.0
17.5°	1300.2	1302.1	1285.7	1253.8	1225.4	1209.0	*1208.0*	1195.1	1174.2	1135.1	1091.5
20°	1280.0	1281.3	1267.7	1241.5	1222.8	1217.8	*1217.5*	1211.8	1196.3	1161.6	1119.3
22.5°	1250.6	1251.6	1241.8	1222.8	1216.5	1224.4	*1226.6*	1224.4	1213.4	1180.9	1141.1
25°	1243.4	1242.7	1232.6	1213.4	1218.7	1235.5	*1238.3*	1239.3	1231.7	1203.3	1168.9
27.5°	1278.4	1276.2	1256.9	1226.0	1229.5	1249.7	*1253.5*	1262.6	1257.9	1233.0	1200.4
30°	1379.8	1376.0	1336.5	1274.0	1256.9	1267.4	*1272.1*	1286.6	1287.6	1266.7	1242.4
32.5°	1550.9	1546.2	1475.4	1363.7	1303.4	1285.4	*1289.8*	1311.6	1323.3	1307.2	1280.9
35°	1767.2	1761.8	1669.0	1516.2	1381.0	1319.8	*1322.9*	1340.3	1363.7	1340.9	1306.2
37.5°	1992.6	1979.7	1890.3	1695.5	1504.5	1393.3	*1393.3*	1395.6	1406.6	1359.2	1335.9
40°	2216.8	2203.8	2123.0	1906.4	1664.2	1509.2	*1502.0*	1453.0	1444.2	1403.5	1395.6
42.5°	2425.2	2421.4	2373.7	2144.8	1851.8	1623.2	*1613.1*	1530.1	1532.0	1506.7	1507.0
45°	2646.8	2646.8	2608.0	2385.4	2070.3	1806.3	*1796.2*	1674.0	1693.0	1681.3	1709.4
47.5°	2827.7	2833.4	2828.1	2636.1	2324.5	2039.0	*2020.7*	1873.6	1926.6	1966.7	2048.5
50°	3012.4	3021.3	3022.2	2911.1	2631.7	2315.6	*2294.8*	2138.5	2256.9	2371.8	2532.5
52.5°	3280.5	3300.4	3221.1	3185.5	3008.0	2644.0	*2623.5*	2479.2	2676.8	2838.2	3115.1
55°	3529.0	3511.6	3455.1	3477.2	3410.9	3017.8	*3002.3*	2875.7	3144.7	3354.4	3714.0
57.5°	3663.5	3662.2	3719.1	3813.8	3845.4	3478.8	*3465.8*	3342.7	3672.3	3829.9	4276.3
60°	3821.4	3823.6	3964.4	4179.4	4309.5	4052.8	*4047.1*	3953.7	4184.8	4273.8	4717.4
62.5°	3843.5	3883.2	4125.7	4495.8	4743.9	4723.4	*4736.1*	4504.0	4643.2	4628.1	5046.7
65°	3589.3	3641.7	4080.6	4591.4	5175.9	5456.9	*5468.6*	5057.5	5004.7	4930.9	5164.5
67.5°	3068.3	3146.0	3622.8	4383.4	5318.3	5999.0	*6015.4*	5486.6	5304.7	5033.5	4881.0
70°	*2232.9*	*2319.1*	*2799.0*	*3743.7*	*5064.4*	*6172.3*	*6191.0*	*5676.3*	*5316.1*	*4741.4*	*4166.8*
72.5°	1348.8	1416.4	1812.0	2756.1	4274.4	5856.6	*5889.8*	5435.7	4853.5	4016.2	3076.9
75°	592.3	636.5	876.2	1588.2	3060.1	4845.6	*4887.0*	4652.7	3943.6	2918.7	1818.6
77.5°	252.3	264.9	359.3	689.9	1729.9	3311.1	*3368.0*	3399.5	2675.6	1588.2	768.5
80°	157.2	162.3	203.3	312.3	809.5	1859.7	*1920.9*	2000.2	1328.6	583.8	268.4
82.5°	95.7	101.4	135.1	188.8	421.5	843.0	*872.4*	928.3	515.6	252.3	138.9
85°	57.5	61.6	82.7	119.3	240.0	331.5	*331.2*	366.3	242.8	162.3	73.3
87.5°	27.5	30.6	44.2	61.9	120.9	124.4	*116.5*	132.0	147.4	106.4	36.9
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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Scaled Data Report

REPORT NUMBER: P319196
CATALOG NUMBER: GLEON-SA2B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	939.3	938.1	933.9	930.8	930.2	928.3	926.7	927.6	928.9	929.2	929.2
5°	939.0	935.5	930.2	928.0	930.8	934.6	939.3	945.6	949.4	952.3	954.2
7.5°	954.2	947.5	941.5	940.3	945.9	956.1	966.8	980.0	989.2	995.5	996.8
10°	979.4	971.2	965.2	966.5	976.6	991.1	1006.3	1023.3	1037.2	1045.7	1046.4
12.5°	1008.5	1000.6	994.9	1000.3	1017.0	1034.7	1050.5	1065.3	1077.9	1086.5	1086.5
15°	1041.9	1036.2	1029.6	1041.9	1064.7	1080.5	1087.1	1094.3	1101.3	1107.6	1106.3
17.5°	1074.1	1068.8	1065.3	1079.8	1103.5	1110.8	1106.3	1101.0	1101.0	1104.4	1105.1
20°	1101.9	1097.2	1099.4	1113.6	1125.9	1118.3	1101.9	1084.9	1077.9	1079.8	1081.7
22.5°	1126.2	1124.0	1130.7	1137.3	1128.4	1101.9	1071.6	1048.6	1040.0	1039.4	1040.0
25°	1154.6	1154.3	1162.5	1150.5	1111.4	1062.5	1021.7	999.3	994.6	998.4	1004.7
27.5°	1190.0	1193.5	1197.6	1153.7	1076.7	1002.8	961.4	945.9	950.7	959.8	965.8
30°	1235.2	1244.6	1235.8	1145.8	1026.8	934.6	895.1	890.7	903.6	916.6	922.9
32.5°	1279.1	1293.9	1272.4	1125.3	962.4	862.3	831.7	830.4	846.2	858.8	867.6
35°	1314.4	1343.8	1299.9	1084.6	887.9	795.7	773.2	764.7	770.4	785.2	795.3
37.5°	1360.5	1409.4	1318.8	1022.4	807.0	740.7	714.5	694.9	689.9	695.9	700.9
40°	1444.8	1509.5	1327.7	935.5	728.1	685.8	659.3	630.5	610.6	596.1	596.4
42.5°	1582.5	1639.9	1322.0	830.1	655.2	632.1	602.1	569.0	536.8	503.9	501.4
45°	1806.0	1833.8	1304.9	718.3	591.1	575.9	547.8	514.7	471.7	434.5	431.0
47.5°	2163.7	2102.2	1278.4	620.7	534.5	528.2	502.3	464.1	418.7	388.7	386.1
50°	2651.6	2489.6	1265.5	543.1	484.7	486.6	465.4	425.0	382.0	359.9	357.4
52.5°	3235.0	2940.8	1290.4	483.1	444.6	451.2	435.4	397.5	361.5	344.2	341.6
55°	3840.3	3408.1	1317.3	439.5	406.7	419.6	414.2	383.0	350.5	334.4	332.2
57.5°	4358.4	3757.0	1263.6	404.1	372.9	393.1	397.8	373.8	344.8	330.3	327.7
60°	4684.6	3897.5	1122.8	371.0	346.0	371.9	388.4	371.3	347.0	345.7	343.8
62.5°	4839.3	3885.1	911.5	344.8	329.3	362.8	395.3	385.5	372.3	383.6	384.6
65°	4769.8	3699.5	678.8	327.4	317.3	366.3	416.1	412.4	379.5	390.9	392.5
67.5°	4312.7	3256.5	502.7	312.3	304.1	376.0	454.0	421.2	365.3	373.5	368.5
70°	*3485.7*	*2581.8*	*387.7*	*295.2*	*290.5*	*374.8*	*471.1*	*415.8*	*349.8*	*351.7*	*338.2*
72.5°	2403.7	1760.5	315.4	279.4	270.9	341.6	459.1	402.6	336.9	322.4	304.4
75°	1307.2	945.0	268.1	263.0	236.5	300.0	437.0	393.1	325.2	305.9	295.8
77.5°	514.3	392.1	232.7	240.6	206.8	264.9	412.4	375.1	309.1	283.8	278.8
80°	210.0	200.2	192.9	208.1	177.8	231.8	382.7	353.9	289.8	263.3	253.2
82.5°	119.0	124.4	150.0	164.2	144.3	213.4	368.5	336.9	266.8	235.9	223.9
85°	60.9	72.9	104.5	117.8	106.1	181.5	339.4	294.9	214.1	180.6	181.5
87.5°	29.4	40.7	66.0	73.9	68.8	131.3	253.5	213.8	166.7	132.0	127.9
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

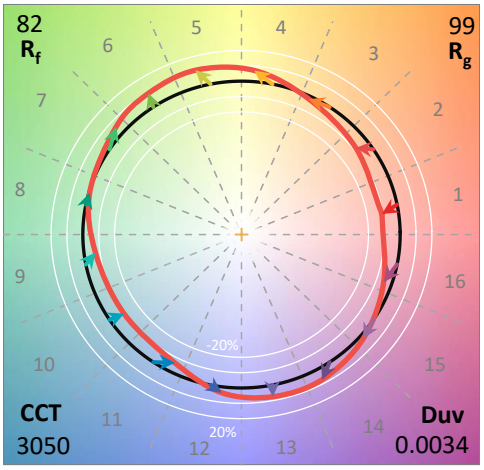
Test Information

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

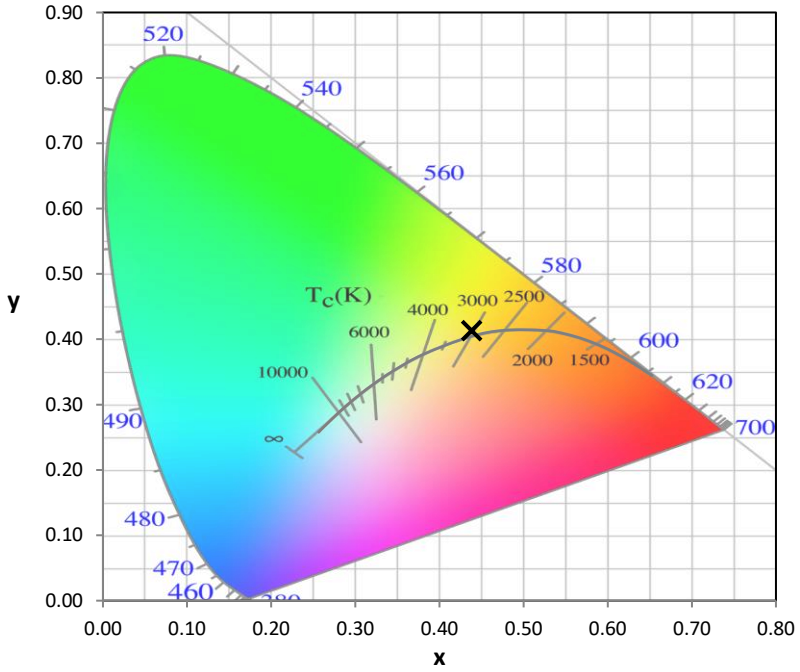
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

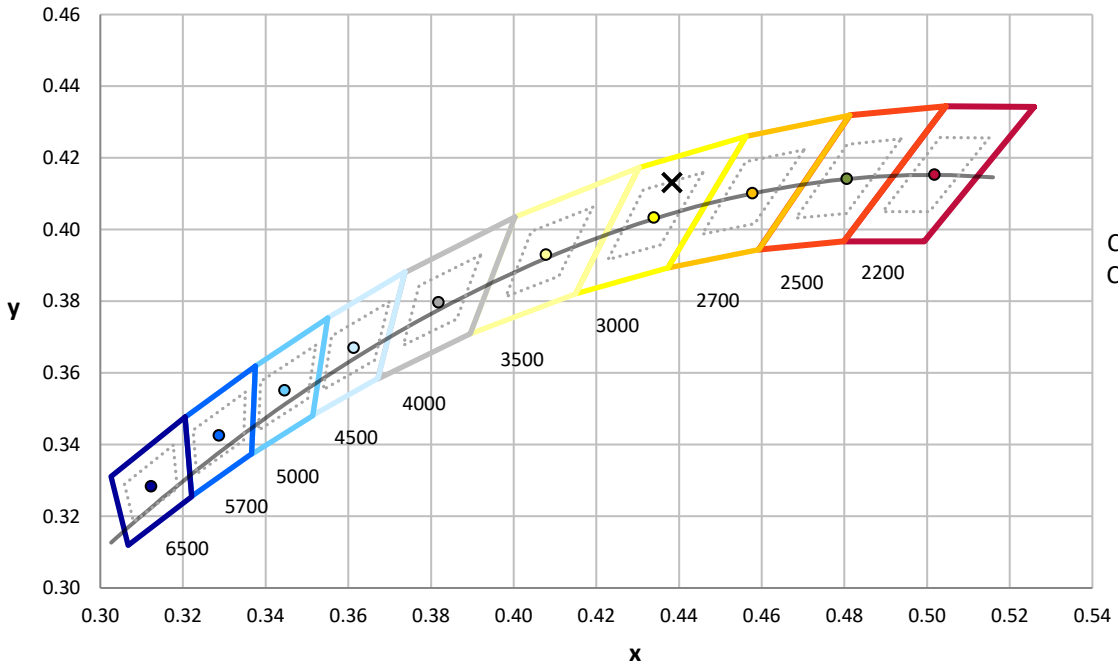
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

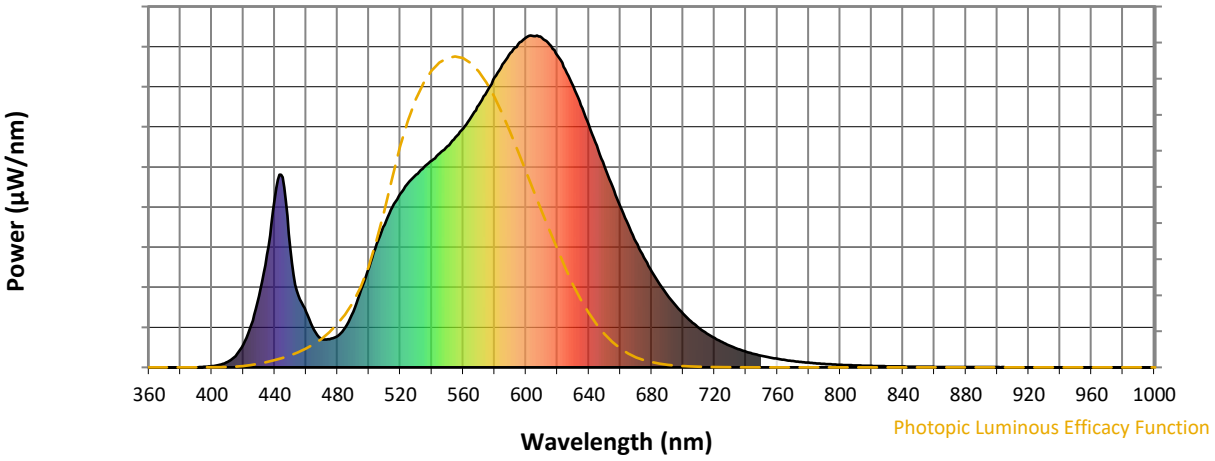


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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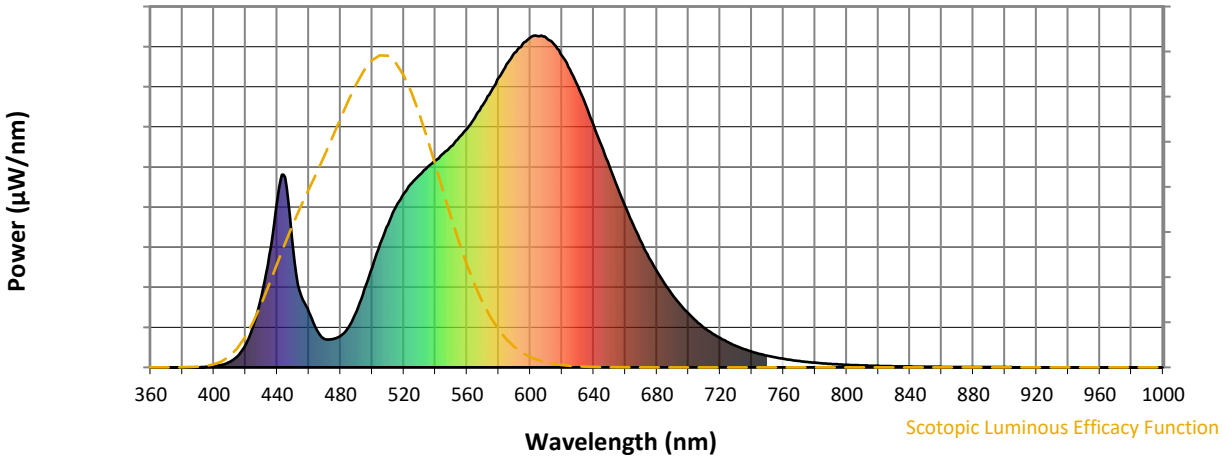
Scotopic Flux vs. Wavelength



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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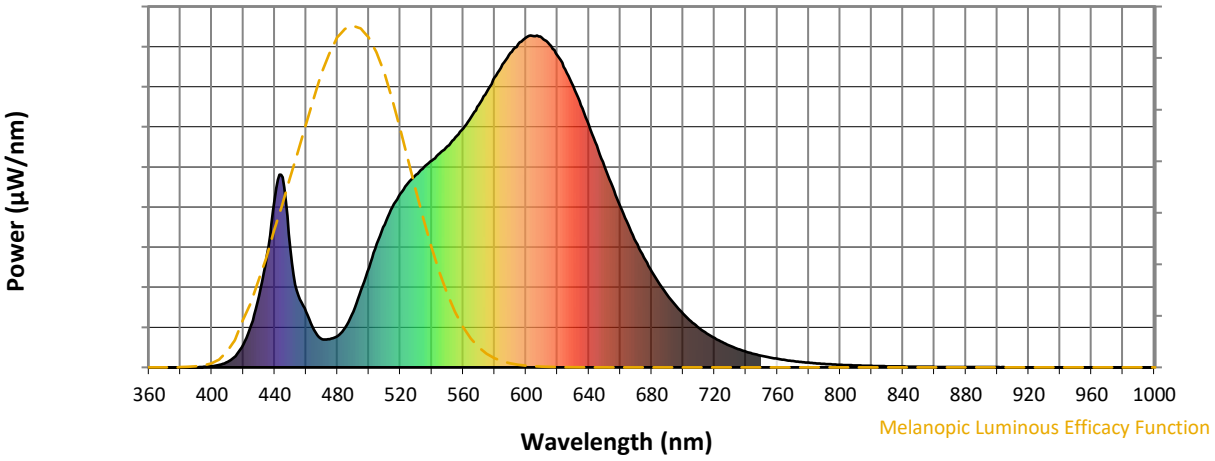
Melanopic Flux vs. Wavelength



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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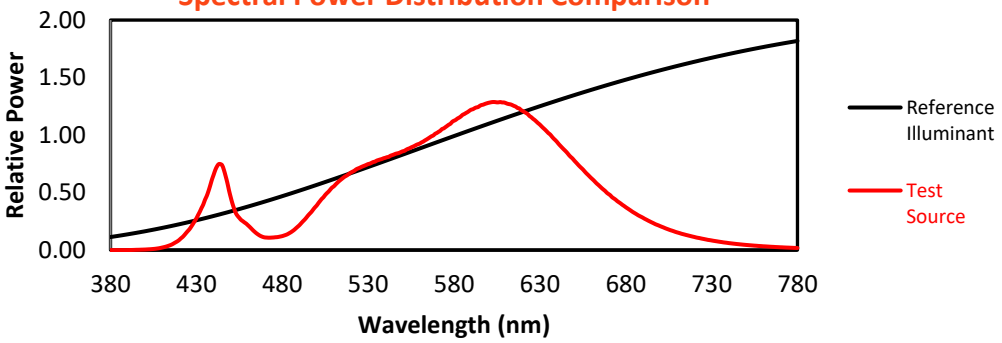
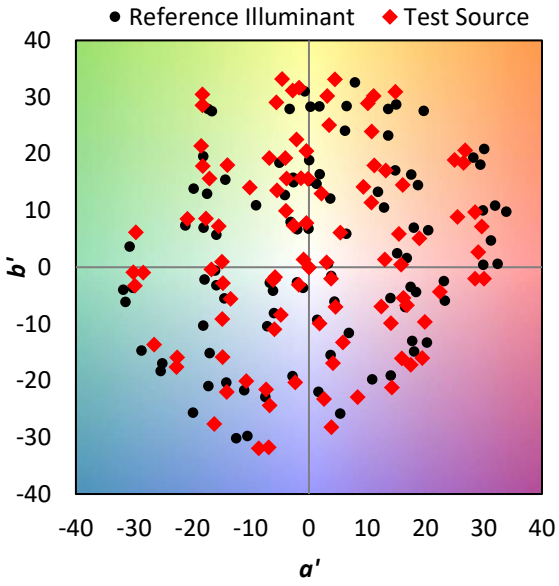
Summary

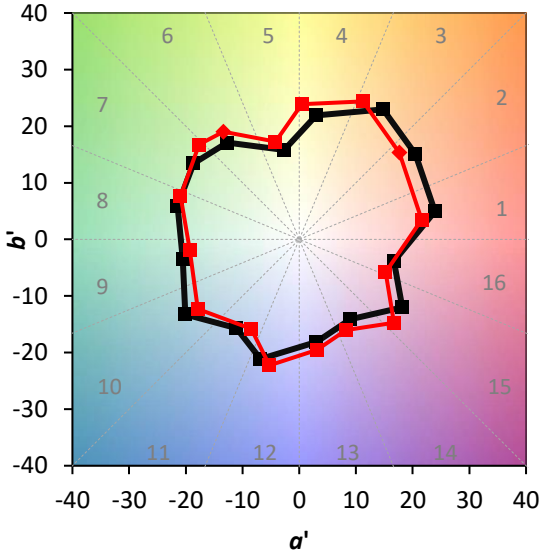
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

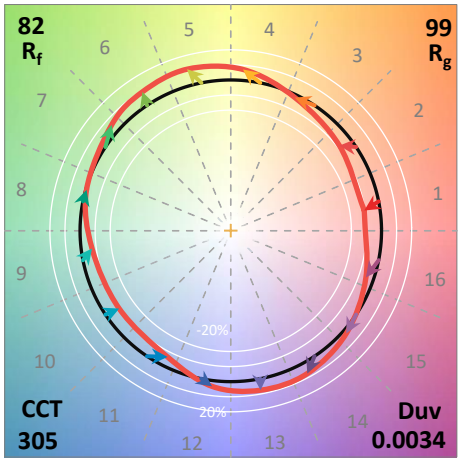
Spectral Power Distribution Comparison

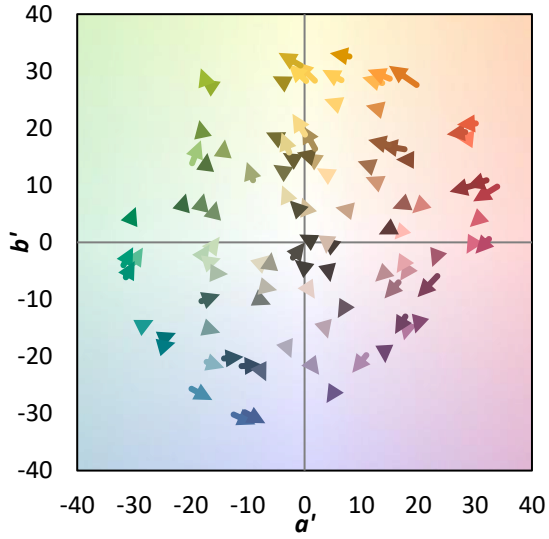


Color Vector Graphics









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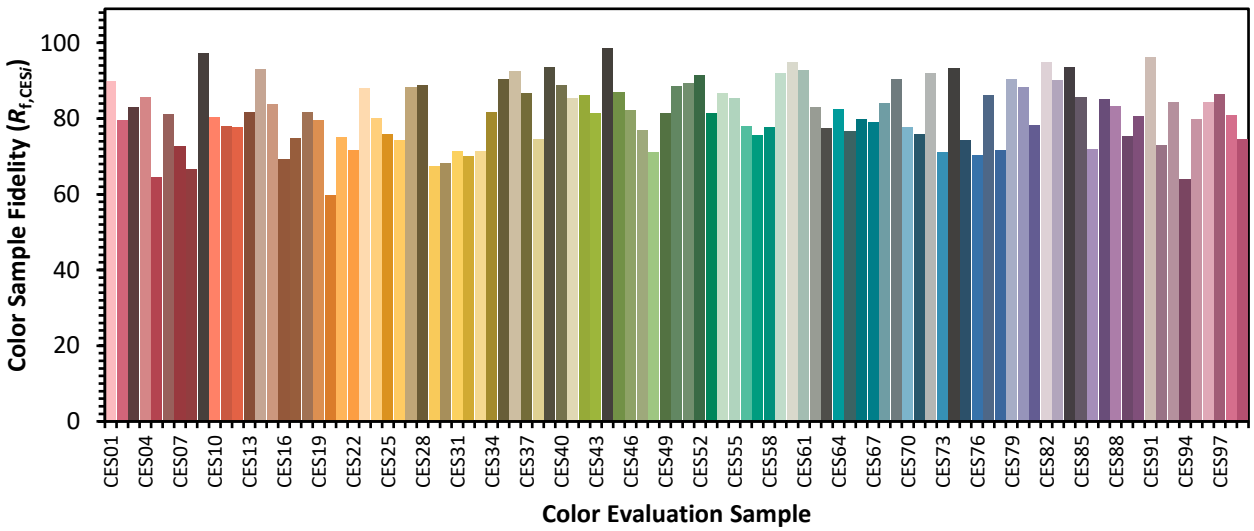
Individual Sample Fidelity Index ($R_{f,i}$)

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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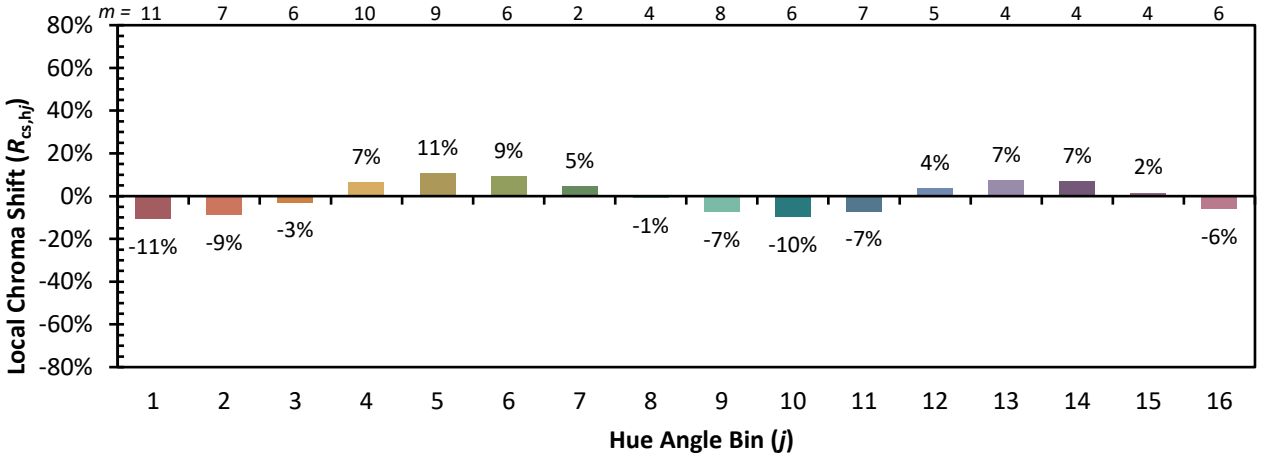
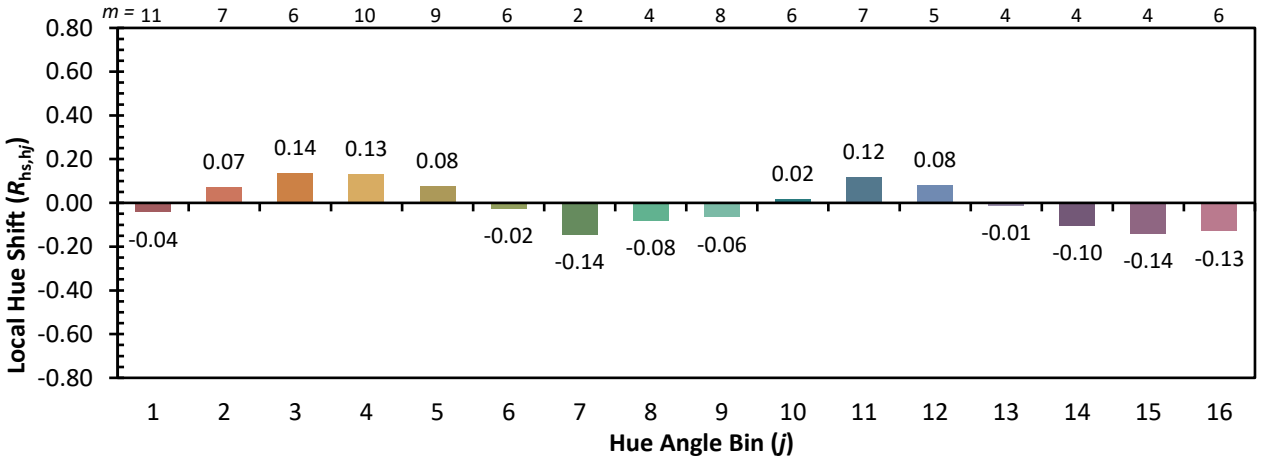
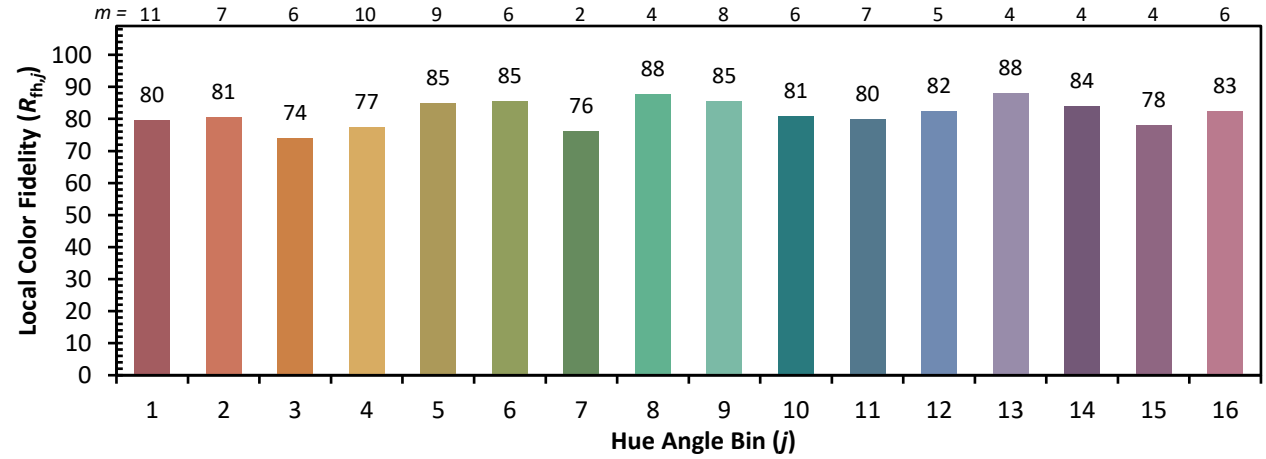
Color Rendition by Hue-Angle Bin







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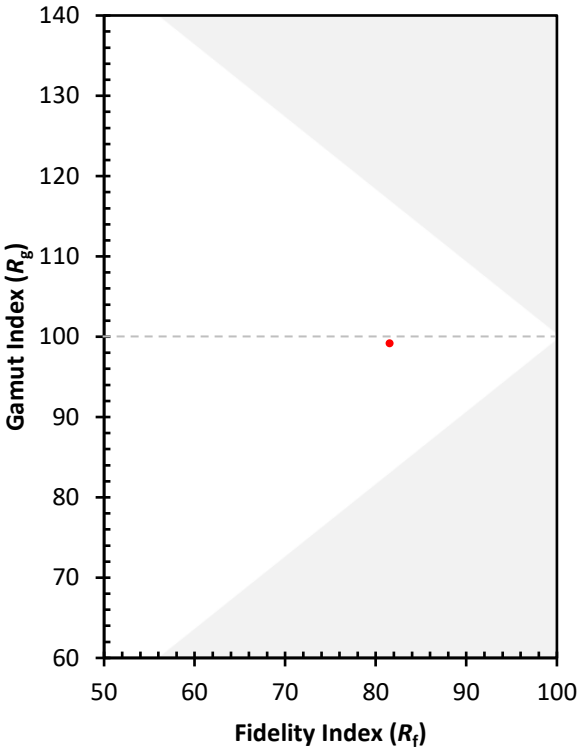
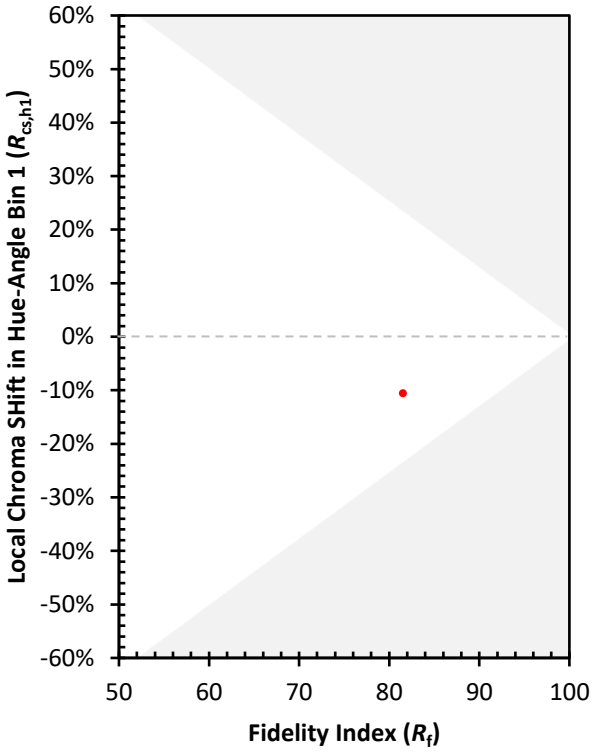
Measure Comparisons





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