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: P324015

Luminaire Tested: **GLEON-SA1D-830-U-SL4-HSS**

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:	P324015
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1D-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5239 lumens
Efficiency:	N/A
Efficacy:	78.2 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	67
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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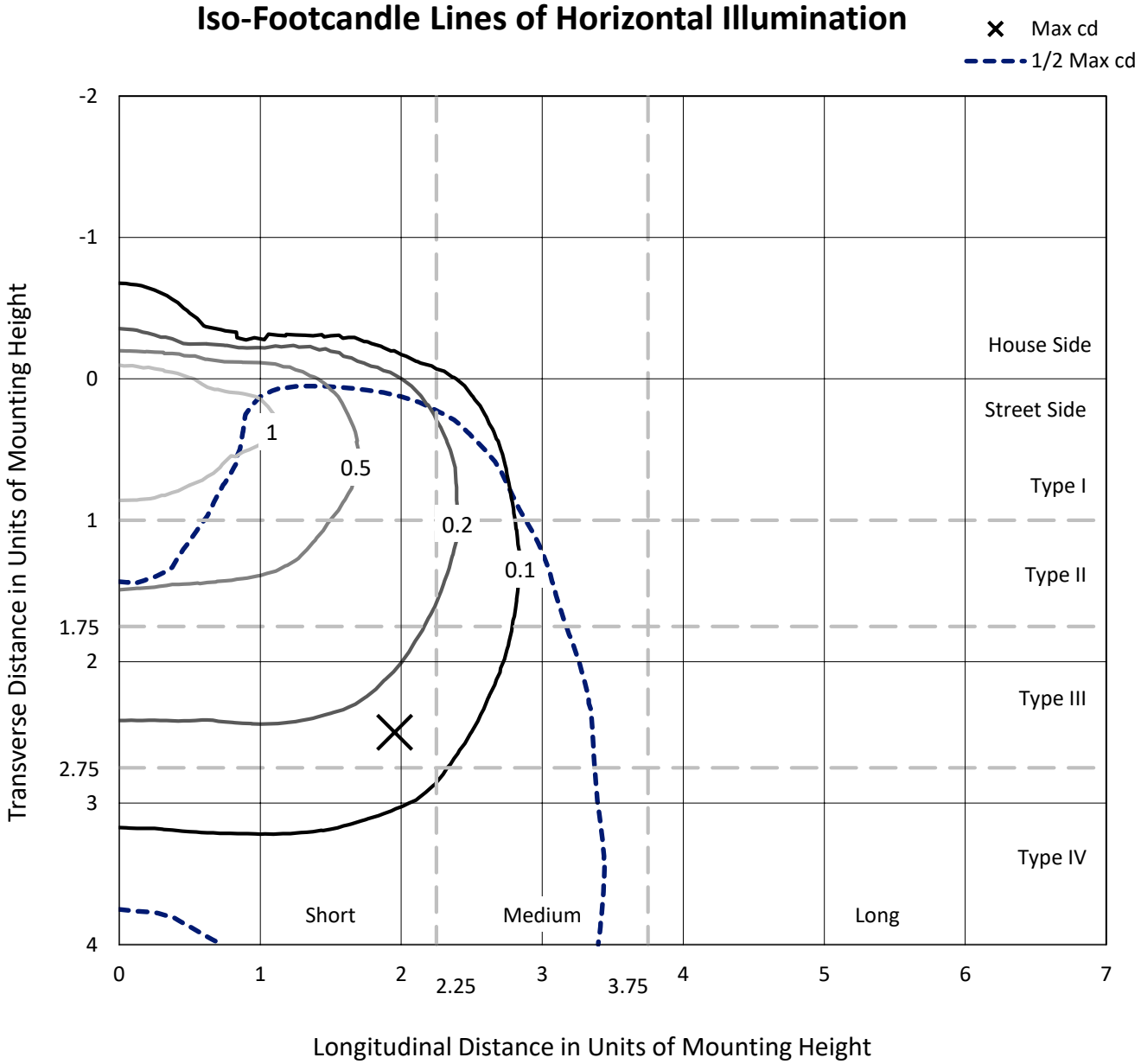
REPORT NUMBER: P324015
CATALOG NUMBER: GLEON-SA1D-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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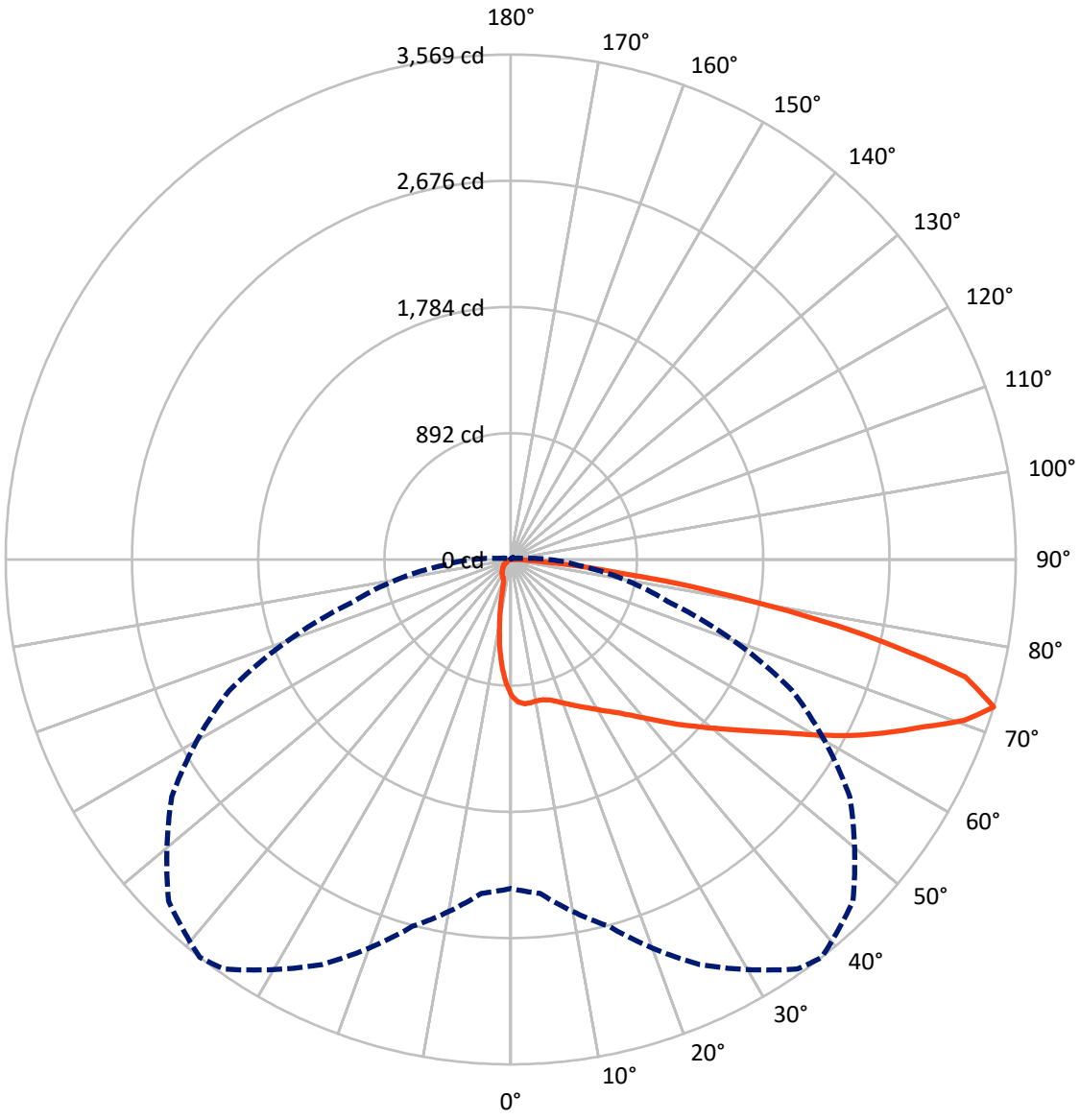
Luminous Intensity Polar Plot



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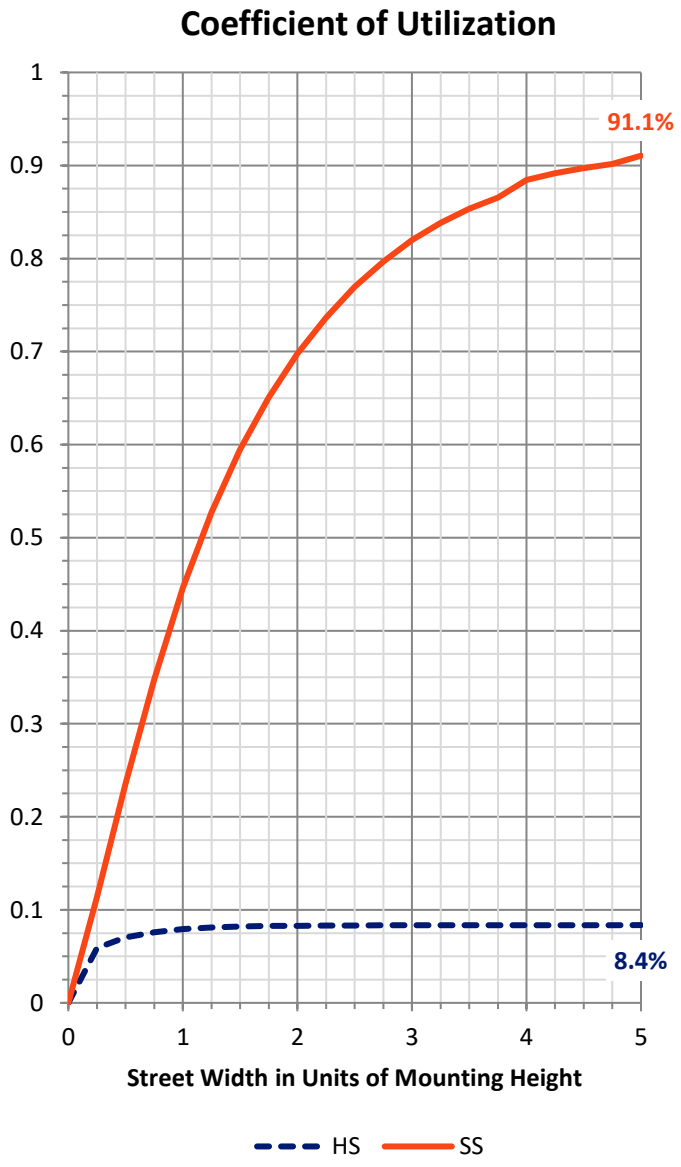
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.9	0.0	440.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4798.1	0.0	4798.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	5239.0	0.0	5239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	1.6
10°-20°	200.8	3.8
20°-30°	319.3	6.1
30°-40°	480.0	9.2
40°-50°	732.3	14.0
50°-60°	1035.0	19.8
60°-70°	1298.3	24.8
70°-80°	970.8	18.5
80°-90°	120.4	2.3
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°	5239.0	100.0
0°-180°	5239.0	100.0



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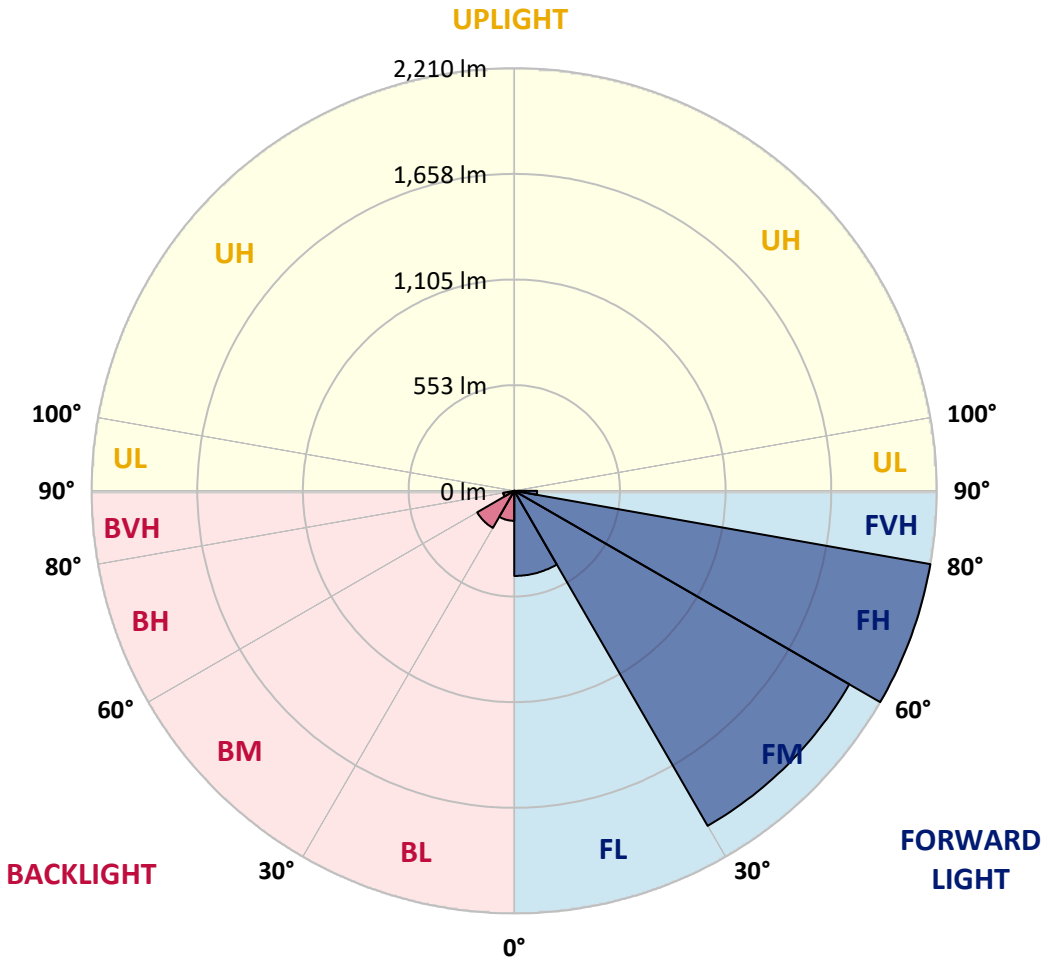
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	445.2	8.5			
FM	(30°-60°)	2023.5	38.6			
FH	(60°-80°)	2210.1	42.2			G2/5000
FVH	(80°-90°)	119.2	2.3			G2/225
BL	(0°-30°)	157.0	3.0	B1/500		
BM	(30°-60°)	223.9	4.3	B1/1000		
BH	(60°-80°)	58.9	1.1	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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REPORT NUMBER: P324015
CATALOG NUMBER: GLEON-SA1D-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	963.4	963.4	963.4	963.4	963.4	*963.4*	963.4	963.4	963.4	963.4	963.4
2.5°	1022.6	1022.8	1020.4	1016.5	1011.5	*1008.9*	1004.6	997.6	990.2	976.9	962.6
5°	1043.5	1043.5	1040.5	1035.2	1027.2	*1024.8*	1016.5	1005.4	990.2	968.7	944.5
7.5°	1041.3	1041.8	1037.6	1032.2	1024.1	*1022.0*	1012.0	999.6	980.6	954.5	923.6
10°	1030.0	1031.1	1027.8	1025.2	1017.8	*1015.4*	1006.1	993.7	974.7	946.9	911.4
12.5°	1018.5	1019.6	1020.7	1023.1	1018.5	*1017.6*	1010.2	999.8	981.7	952.8	912.7
15°	1011.1	1013.3	1021.1	1030.4	1031.5	*1030.7*	1025.9	1016.1	997.8	967.8	922.1
17.5°	1011.1	1014.6	1030.9	1048.7	1055.0	*1055.7*	1051.6	1037.8	1016.1	983.9	930.8
20°	1019.6	1024.4	1049.8	1075.1	1085.5	*1085.5*	1077.4	1058.3	1032.8	998.5	936.7
22.5°	1041.3	1047.6	1079.6	1108.8	1119.9	*1117.5*	1106.6	1078.8	1050.2	1015.0	944.1
25°	1084.2	1089.0	1122.3	1151.6	1158.4	*1152.9*	1139.2	1103.6	1072.4	1037.4	957.6
27.5°	1139.5	1140.1	1174.5	1199.3	1195.2	*1191.5*	1174.3	1134.7	1104.4	1069.4	980.8
30°	1200.2	1200.2	1230.4	1249.3	1236.7	*1233.7*	1216.5	1172.3	1145.3	1112.9	1013.9
32.5°	1258.9	1261.5	1286.1	1298.1	1283.9	*1280.9*	1264.1	1220.0	1199.7	1179.3	1065.5
35°	1315.7	1317.7	1340.9	1347.5	1334.0	*1334.8*	1322.9	1285.5	1277.8	1275.2	1143.2
37.5°	1370.7	1371.2	1394.9	1399.0	1392.3	*1399.7*	1400.8	1367.7	1381.8	1402.9	1252.6
40°	1421.0	1421.4	1444.9	1455.6	1467.1	*1476.7*	1485.2	1467.6	1514.3	1563.3	1382.9
42.5°	1461.3	1465.8	1495.6	1515.9	1546.3	*1564.6*	1587.7	1586.8	1672.1	1745.6	1540.5
45°	1496.7	1504.6	1546.1	1581.6	1633.8	*1662.9*	1699.1	1727.4	1849.6	1948.6	1699.9
47.5°	1543.5	1550.9	1598.3	1656.4	1726.0	*1764.3*	1824.2	1885.3	2044.8	2147.9	1855.7
50°	1609.4	1606.2	1652.9	1736.3	1825.7	*1876.0*	1961.2	2052.8	2238.4	2321.6	1947.3
52.5°	1679.7	1678.4	1713.0	1823.1	1943.2	*2001.9*	2114.6	2226.0	2423.6	2441.2	1989.3
55°	1766.7	1757.4	1786.5	1922.1	2082.7	*2145.8*	2278.5	2397.5	2571.1	2508.7	2010.4
57.5°	1857.9	1842.4	1870.3	2032.4	2240.0	*2314.6*	2459.9	2564.6	2669.2	2554.8	2010.2
60°	1952.1	1933.8	1966.9	2170.3	2435.3	*2521.7*	2656.6	2677.5	2760.8	2578.1	1995.4
62.5°	2030.9	2020.0	2069.2	2317.9	2653.6	*2738.4*	2805.2	2780.2	2838.1	2596.1	1960.8
65°	2114.2	2114.9	2194.3	2490.0	2885.5	*2942.7*	2948.4	2913.4	2902.7	2592.4	1843.8
67.5°	2226.9	2237.4	2369.9	2723.6	3111.1	*3155.3*	3154.9	3057.6	2949.9	2445.4	1584.2
70°	2346.1	2370.7	2572.2	2991.0	3357.4	*3402.3*	3379.2	3149.4	2777.6	1977.3	1121.2
72.5°	*2326.1*	*2368.8*	*2684.7*	*3159.7*	*3534.3*	*3568.5*	*3418.6*	*2923.8*	*2195.4*	*1149.2*	*477.4*
75°	1794.6	1844.0	2461.7	2992.6	3348.7	*3318.1*	2937.3	2275.2	1199.7	320.7	107.5
77.5°	948.0	974.3	1626.2	2279.8	2611.2	*2547.0*	2069.2	1262.2	365.7	79.4	48.3
80°	496.5	502.6	708.7	1293.5	1611.6	*1612.0*	1226.3	554.4	150.8	40.7	32.4
82.5°	265.9	271.1	374.5	597.7	844.4	*765.4*	469.5	305.0	87.7	23.1	31.1
85°	64.0	65.1	212.4	273.1	332.0	*237.2*	139.5	256.1	23.7	13.5	25.2
87.5°	24.6	25.0	78.8	118.1	84.6	*54.8*	65.3	95.5	3.0	5.2	3.9
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: P324015
CATALOG NUMBER: GLEON-SA1D-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4
2.5°	953.9	948.2	934.3	916.7	901.0	889.7	872.7	861.6	854.2	854.0	851.2
5°	929.7	918.2	888.2	852.5	820.1	790.9	756.5	729.3	709.1	705.8	698.9
7.5°	903.8	884.9	838.8	783.1	728.7	673.4	609.2	569.4	535.2	518.9	517.2
10°	887.9	861.4	795.9	715.4	630.1	540.2	456.3	398.2	356.2	344.2	335.3
12.5°	884.7	849.6	762.8	651.9	530.0	411.2	318.3	256.5	223.0	212.4	209.5
15°	887.9	844.2	735.0	589.0	428.6	291.8	213.7	177.8	165.1	162.1	161.9
17.5°	889.9	837.7	703.4	519.1	330.3	208.4	163.6	153.2	151.2	151.0	151.4
20°	889.7	827.7	665.8	441.2	245.6	163.8	148.0	145.8	145.3	145.6	145.3
22.5°	888.2	815.9	624.4	361.0	185.6	146.4	141.2	139.9	139.7	139.7	139.7
25°	891.0	806.6	579.0	284.2	153.0	138.4	135.1	134.0	133.8	133.8	133.4
27.5°	901.2	801.3	529.1	218.7	138.2	131.2	128.6	128.4	127.7	127.5	127.9
30°	917.7	801.3	474.5	170.1	129.2	123.8	121.8	121.4	121.2	121.0	121.2
32.5°	946.9	807.4	414.9	141.4	120.8	115.5	114.2	114.9	114.2	114.2	114.2
35°	999.6	825.7	352.5	123.4	111.8	107.5	106.2	107.0	106.6	106.6	106.4
37.5°	1076.4	859.7	289.6	112.5	104.0	99.4	97.7	99.0	98.6	98.6	98.3
40°	1169.9	909.0	229.8	104.2	96.4	91.6	90.1	90.7	89.6	89.6	90.1
42.5°	1285.5	971.7	177.5	96.2	88.8	84.2	83.3	82.7	80.7	79.6	79.9
45°	1413.8	1037.0	138.4	88.3	81.6	77.9	76.6	74.8	71.6	69.4	69.6
47.5°	1528.5	1087.2	112.5	80.7	75.1	72.2	70.3	67.0	62.2	59.6	59.8
50°	1588.8	1094.9	95.7	73.1	69.0	66.1	63.3	58.3	52.7	49.8	49.6
52.5°	1604.2	1059.2	83.3	66.1	62.9	59.6	55.9	49.2	42.9	39.8	39.4
55°	1609.9	1004.8	72.2	59.6	56.4	52.7	47.9	40.3	34.4	31.3	31.1
57.5°	1591.1	923.6	63.5	53.7	49.8	45.3	39.4	32.2	26.5	24.2	24.2
60°	1549.6	813.7	56.8	47.4	43.1	37.9	31.8	25.0	19.8	17.8	17.8
62.5°	1466.7	671.4	50.5	40.9	36.8	31.3	25.7	18.9	13.9	12.8	13.1
65°	1310.3	509.3	44.2	35.0	31.3	25.9	20.0	13.5	9.4	9.4	9.8
67.5°	1068.5	353.8	37.6	29.8	27.0	21.1	15.2	9.4	6.5	7.4	8.3
70°	707.3	198.4	32.2	24.6	23.1	16.8	11.3	6.3	5.2	7.0	8.5
72.5°	*267.0*	*77.2*	*27.0*	*19.8*	*20.0*	*12.8*	*8.1*	*4.8*	*4.8*	*7.6*	*10.0*
75°	74.4	37.9	19.4	14.6	15.7	9.4	5.9	4.1	4.6	8.7	11.7
77.5°	43.7	27.8	12.6	8.5	10.7	6.5	3.9	3.3	3.9	7.4	11.3
80°	35.2	14.8	7.4	4.4	5.9	3.7	2.6	2.0	1.1	2.8	5.9
82.5°	35.2	8.9	3.5	3.0	3.0	2.0	1.3	0.9	0.2	0.0	1.5
85°	23.7	3.7	2.2	2.0	1.5	0.7	0.4	0.2	0.0	0.0	0.0
87.5°	3.9	1.5	0.9	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
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

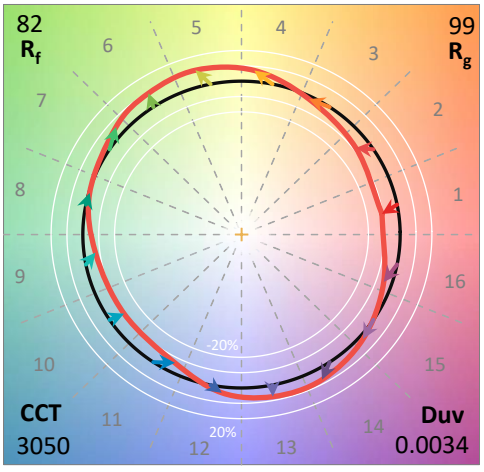
Test Information

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

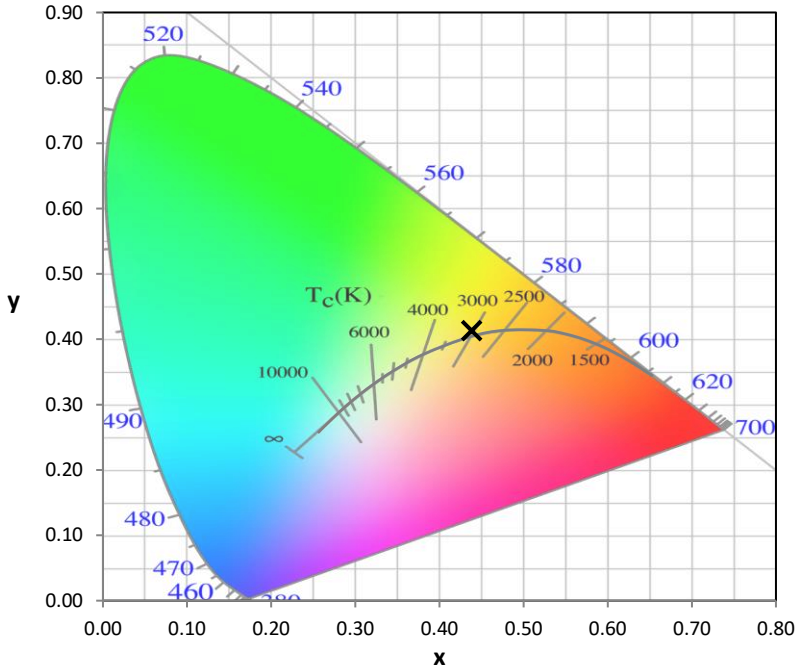
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

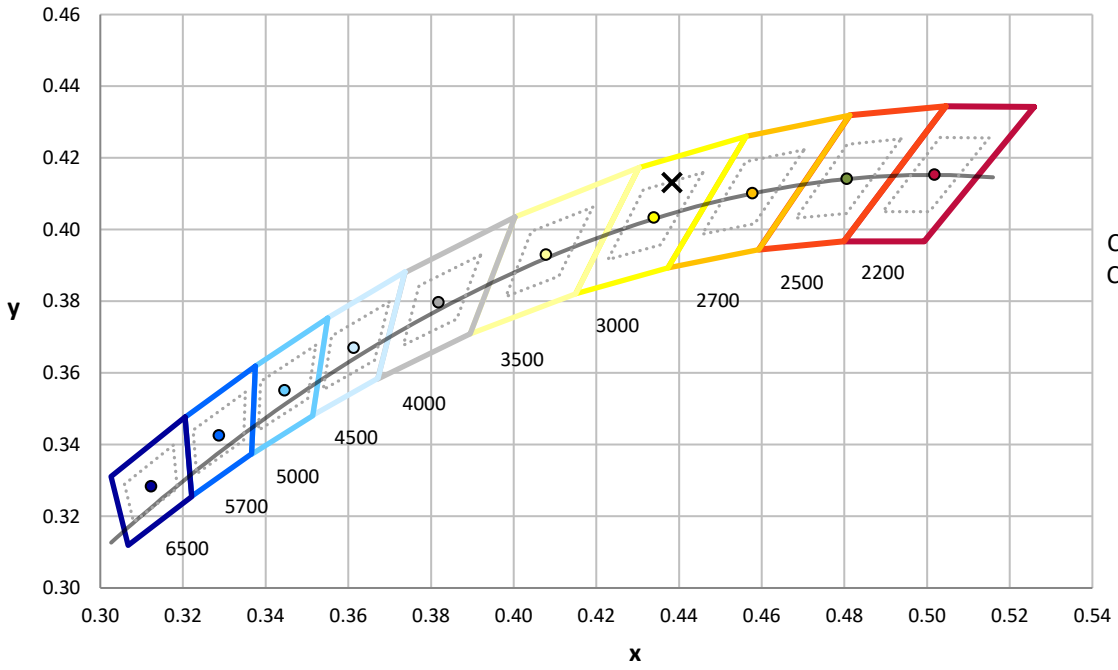
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

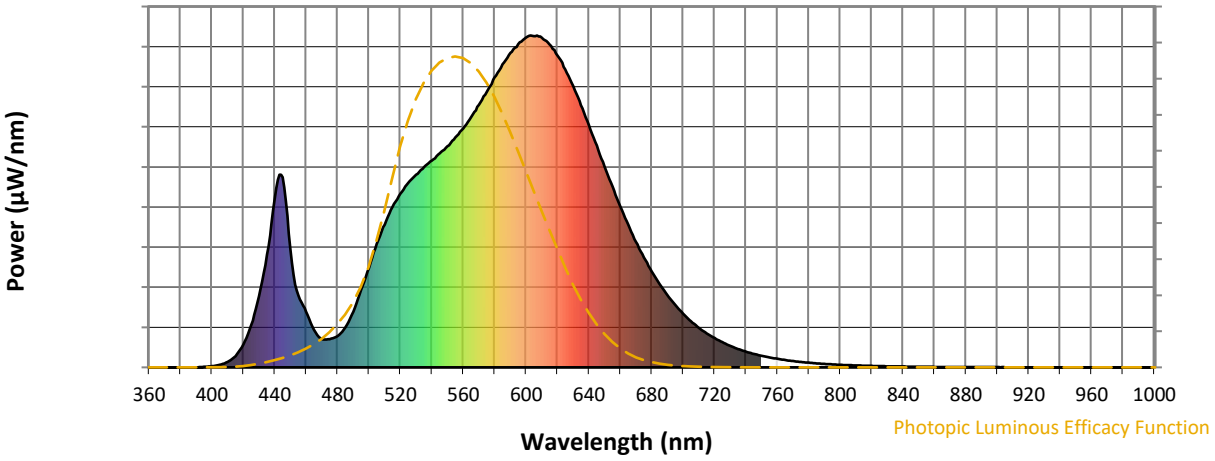


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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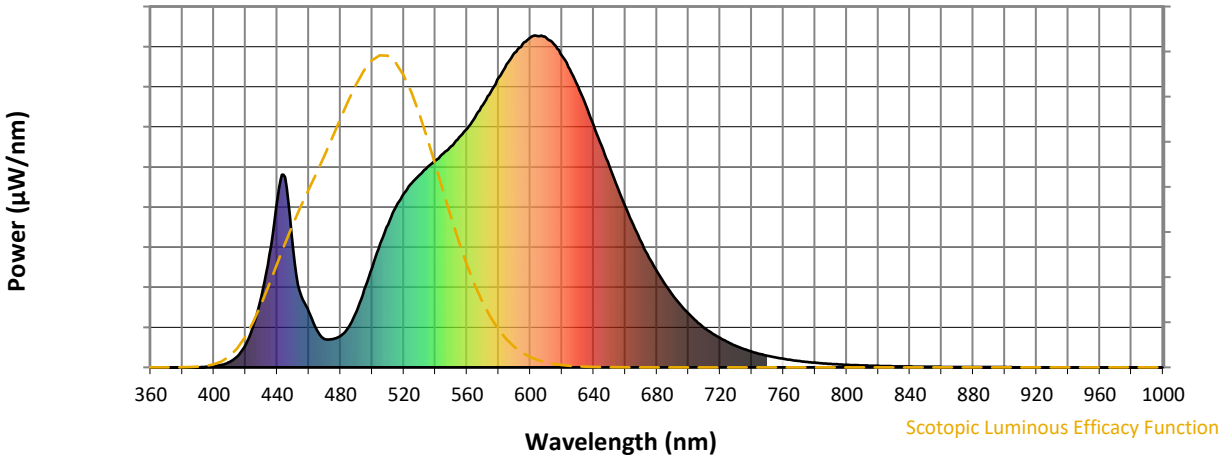
Scotopic Flux vs. Wavelength



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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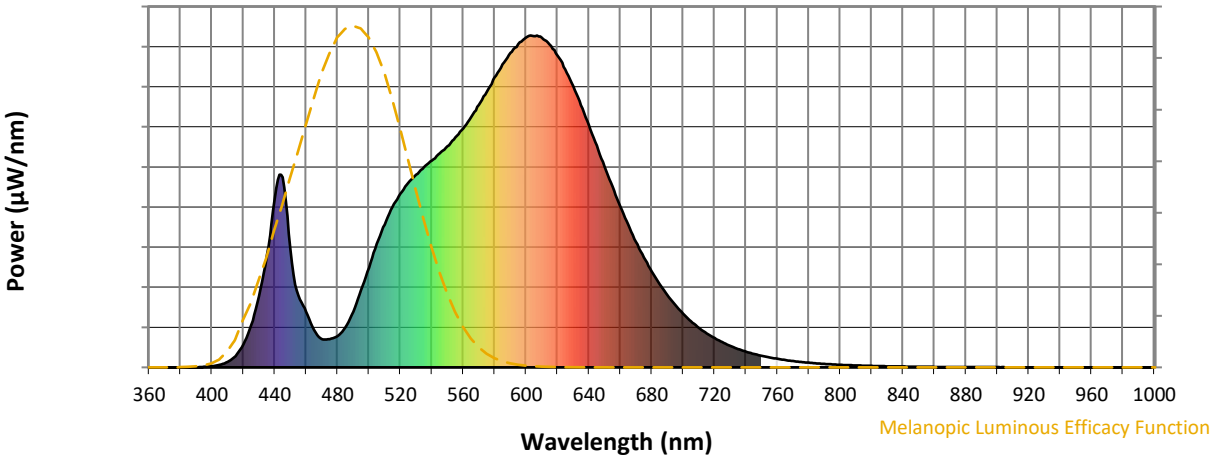
Melanopic Flux vs. Wavelength



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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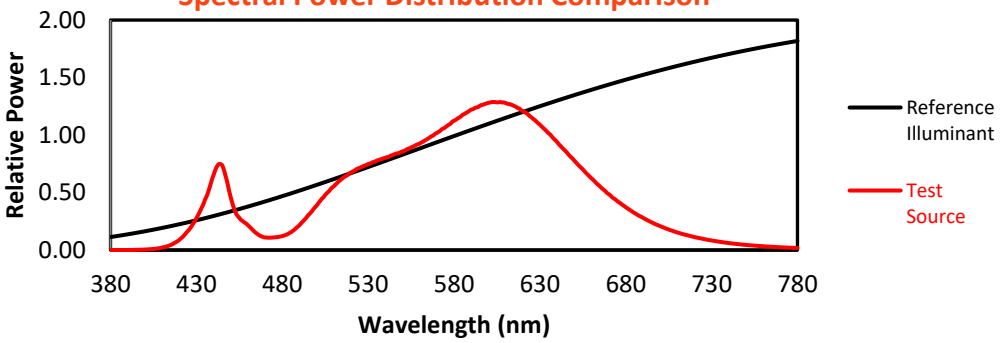
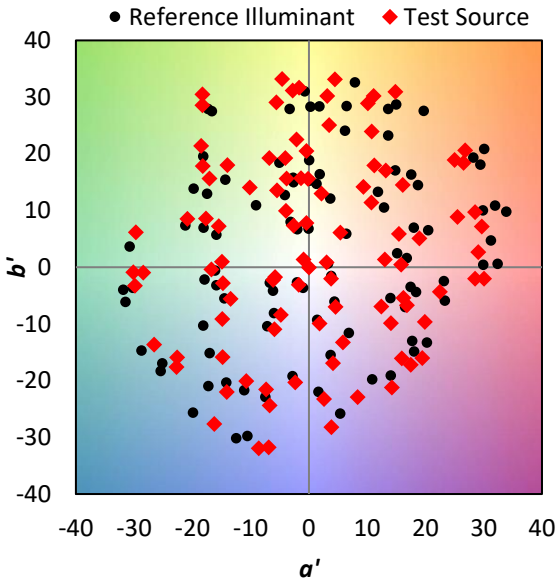
Summary

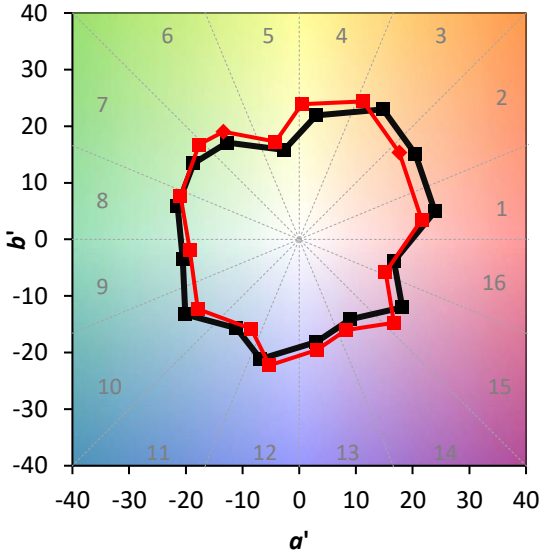
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

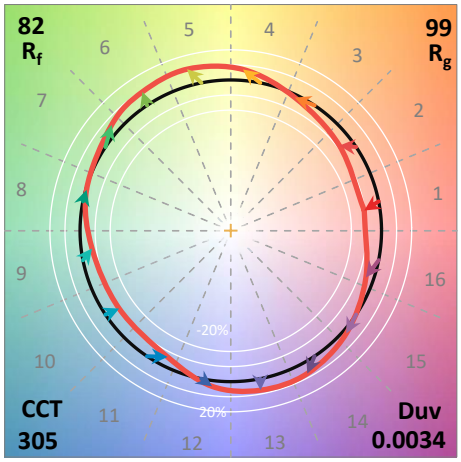
Spectral Power Distribution Comparison

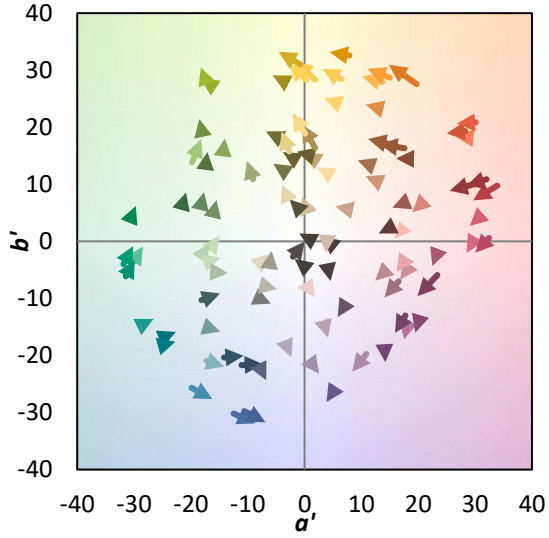


Color Vector Graphics









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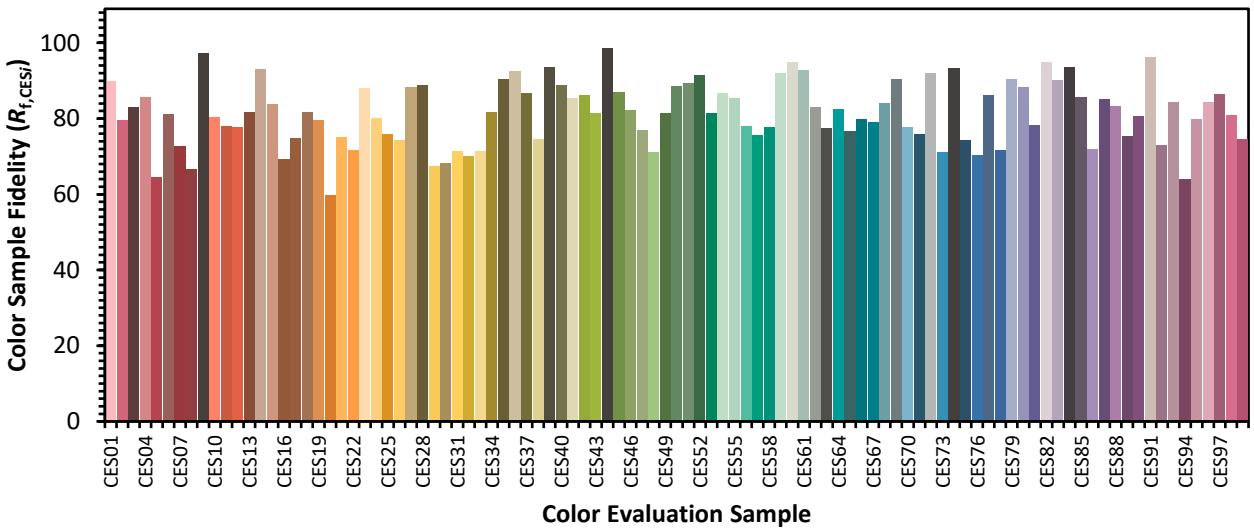
Individual Sample Fidelity Index ($R_{f,i}$)

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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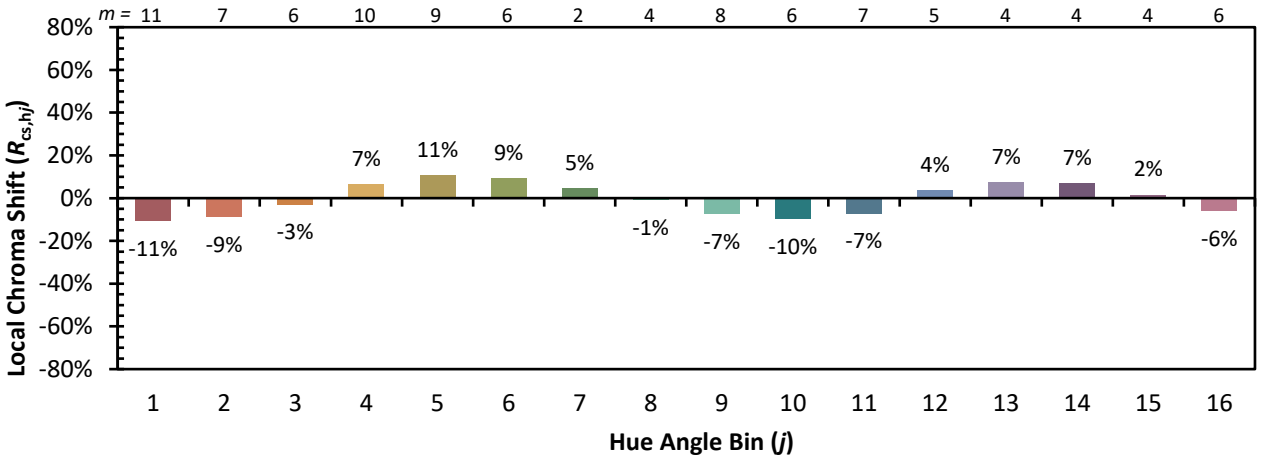
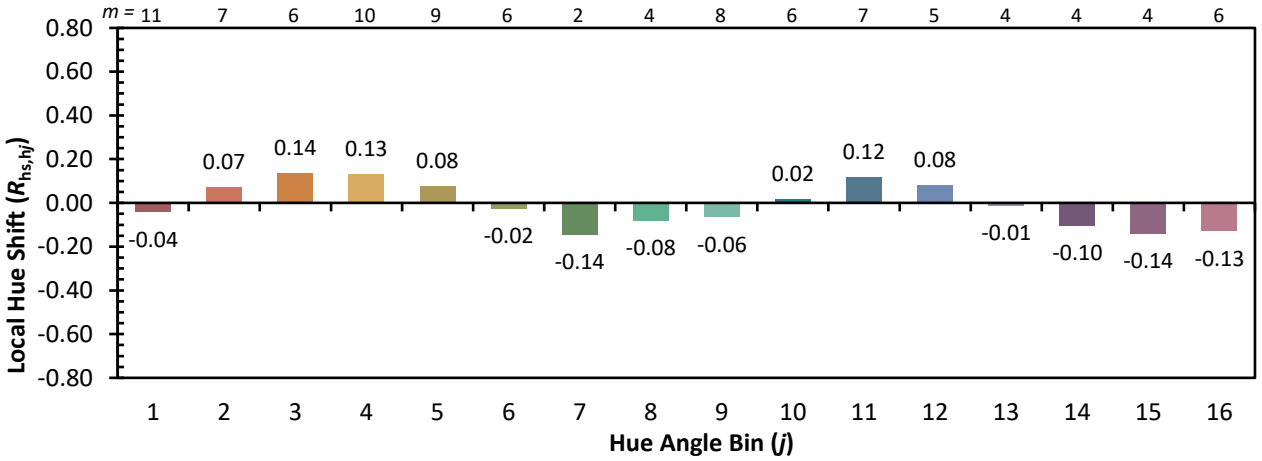
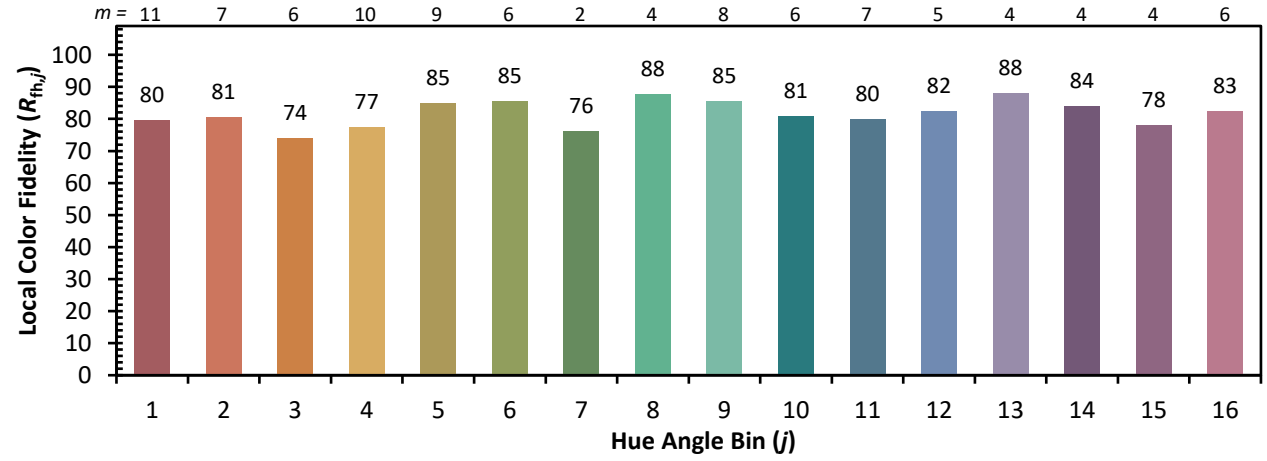
Color Rendition by Hue-Angle Bin







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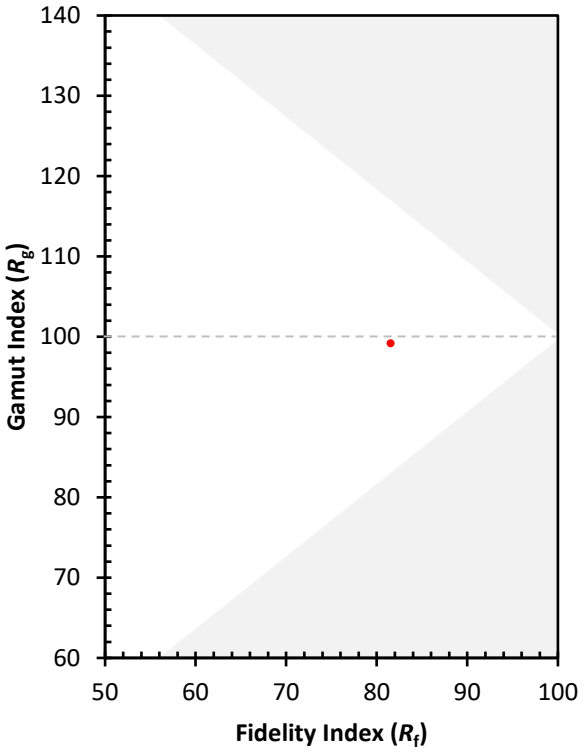
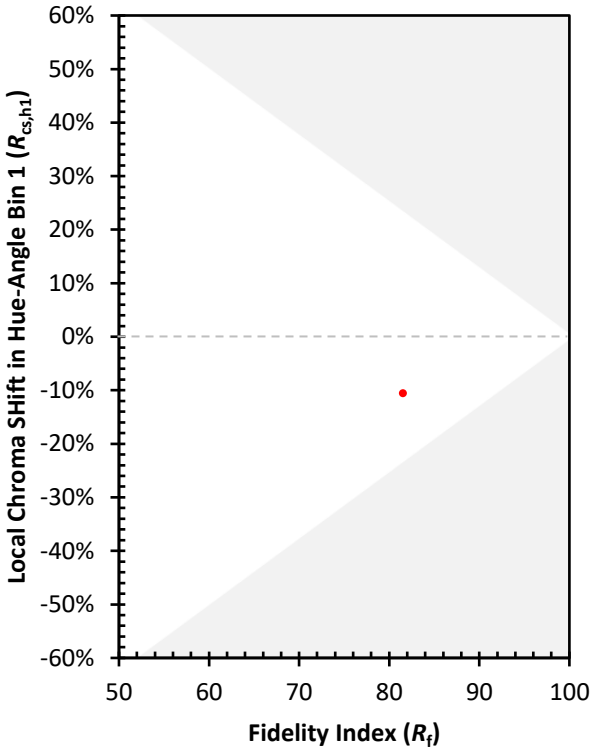
Measure Comparisons





(END OF REPORT)