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: P318895

Luminaire Tested: **GLEON-SA1D-830-U-T4FT**

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:	P318895
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
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-T4FT
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6495 lumens
Efficiency:	N/A
Efficacy:	96.9 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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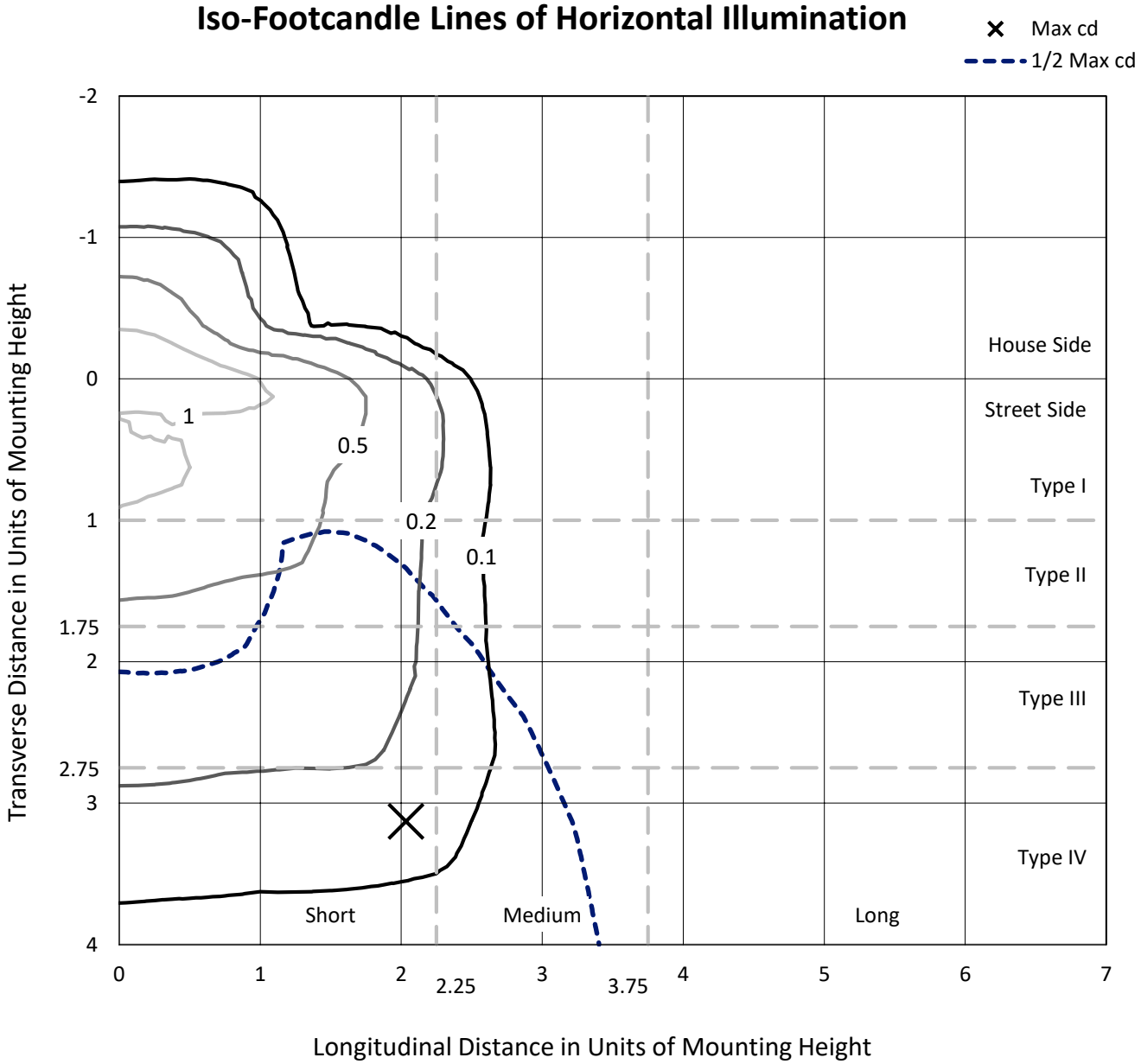
Scaled Data Report

REPORT NUMBER: P318895
CATALOG NUMBER: GLEON-SA1D-830-U-T4FT

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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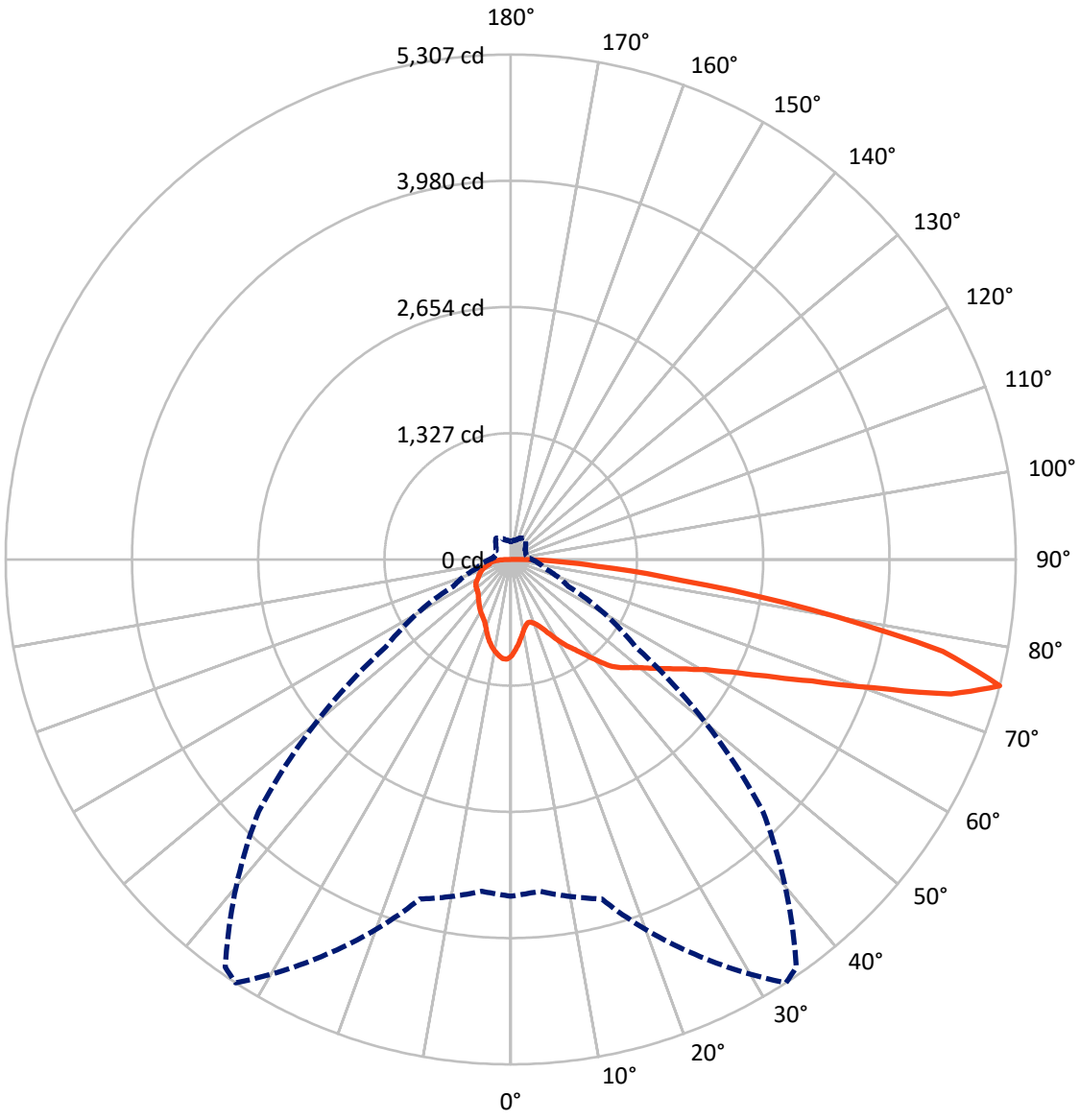
Luminous Intensity Polar Plot



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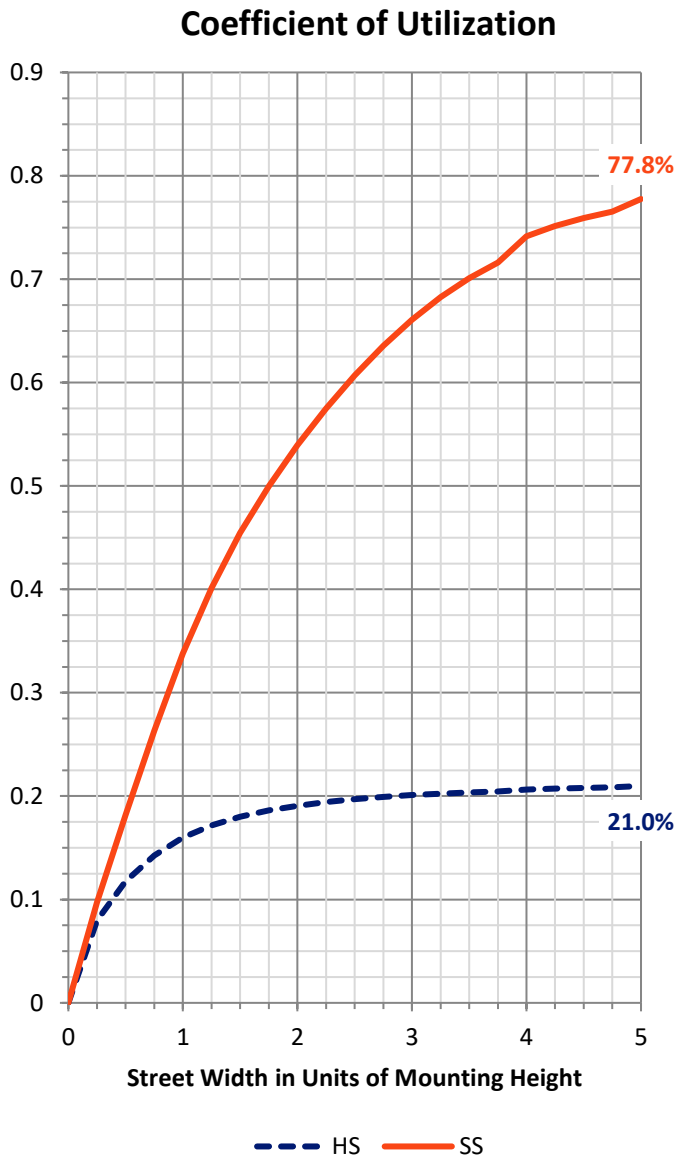
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.6	0.0	1394.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5100.4	0.0	5100.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	6495.0	0.0	6495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.4
10°-20°	248.7	3.8
20°-30°	406.1	6.3
30°-40°	604.8	9.3
40°-50°	867.4	13.4
50°-60°	1190.9	18.3
60°-70°	1490.9	23.0
70°-80°	1348.7	20.8
80°-90°	245.7	3.8
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°	6495.0	100.0
0°-180°	6495.0	100.0



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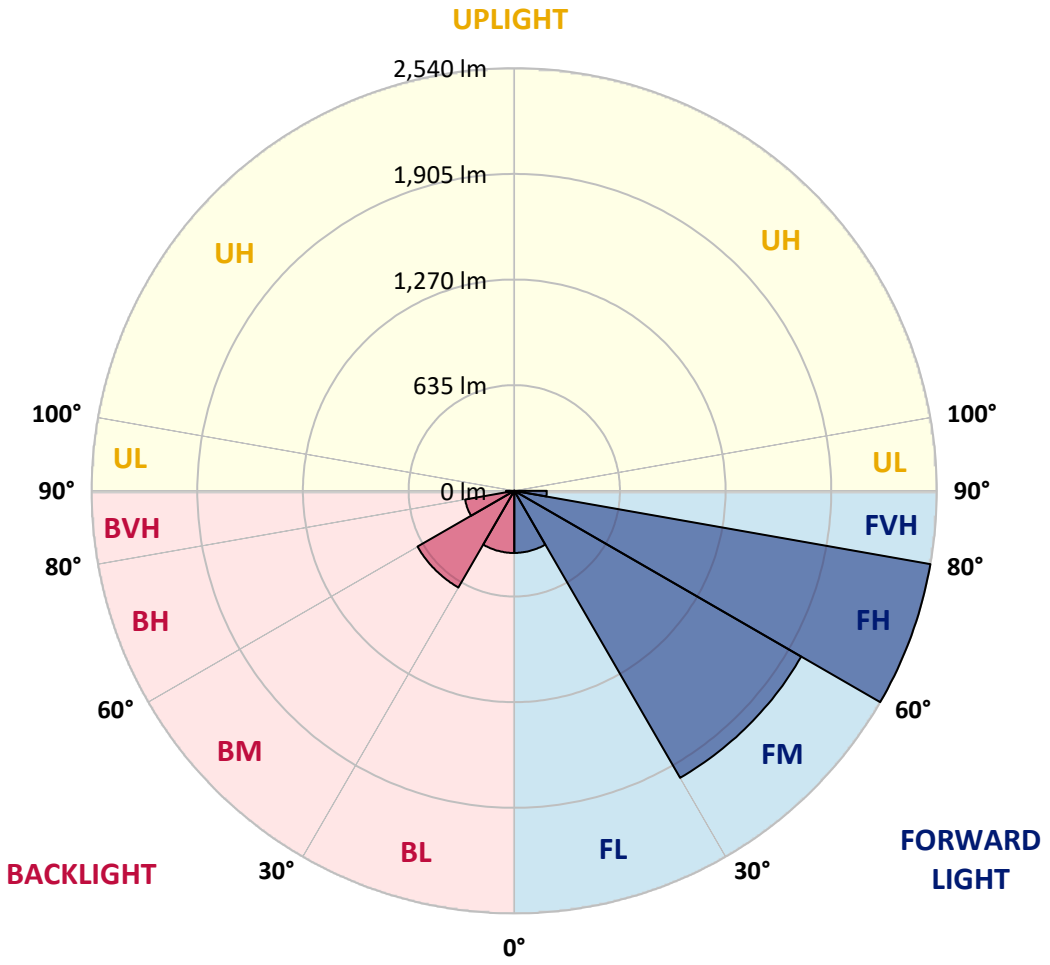
REPORT NUMBER: P318895
CATALOG NUMBER: GLEON-SA1D-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	373.0	5.7			
FM	(30°-60°)	1991.9	30.7			
FH	(60°-80°)	2539.8	39.1			G2/5000
FVH	(80°-90°)	195.7	3.0			G2/225
BL	(0°-30°)	373.5	5.8	B1/500		
BM	(30°-60°)	671.2	10.3	B1/1000		
BH	(60°-80°)	299.9	4.6	B1/500		G1/500
BVH	(80°-90°)	50.0	0.8			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 IV Short



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REPORT NUMBER: P318895
CATALOG NUMBER: GLEON-SA1D-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	942.7	939.1	945.9	946.8	952.6	954.9	962.9	975.5	985.8	997.7	1008.5
5°	857.3	854.8	864.2	870.9	883.7	889.1	908.2	934.9	958.7	985.6	1010.0
7.5°	776.0	774.7	785.2	800.5	815.3	822.7	855.7	894.5	934.2	977.7	1015.2
10°	707.6	707.2	717.3	732.3	754.1	762.4	805.0	856.1	911.8	971.7	1024.0
12.5°	669.3	670.8	675.5	688.1	708.3	716.6	763.9	824.1	892.9	969.7	1036.7
15°	678.7	681.1	673.1	672.6	687.0	693.5	737.9	801.2	879.5	973.0	1055.4
17.5°	718.8	719.3	698.0	684.5	693.3	696.6	729.8	788.2	871.6	980.7	1078.7
20°	775.4	774.2	736.6	714.1	718.8	719.7	741.3	788.4	870.9	993.9	1109.0
22.5°	850.3	842.0	791.3	760.8	759.7	758.3	770.7	805.0	880.8	1015.4	1145.1
25°	948.1	940.3	870.5	828.8	819.8	816.4	818.2	840.4	900.3	1038.5	1185.5
27.5°	1056.9	1043.2	975.9	916.9	898.3	893.6	882.8	890.5	921.6	1060.7	1233.5
30°	1148.0	1140.6	1081.8	1011.8	989.9	983.1	954.9	946.6	952.4	1091.0	1294.1
32.5°	1199.0	1194.0	1158.3	1101.8	1081.4	1072.0	1032.0	1015.4	1001.7	1138.8	1376.2
35°	1260.6	1257.5	1236.0	1194.9	1164.6	1154.8	1123.8	1106.5	1071.3	1204.6	1482.3
37.5°	1339.2	1335.8	1336.3	1303.1	1266.9	1257.7	1237.3	1219.1	1161.5	1290.9	1597.6
40°	1428.0	1421.5	1419.0	1417.5	1394.6	1389.4	1378.7	1354.0	1274.6	1394.1	1711.4
42.5°	1561.7	1538.6	1489.3	1507.9	1530.5	1527.9	1536.6	1501.2	1400.2	1516.2	1822.4
45°	1690.7	1652.8	1567.6	1571.6	1621.2	1636.2	1701.7	1676.6	1536.4	1649.9	1937.3
47.5°	1749.5	1720.8	1648.3	1648.6	1697.7	1728.9	1872.5	1854.5	1679.5	1801.8	2077.5
50°	1815.3	1786.5	1721.5	1745.9	1788.8	1822.0	2037.4	2028.2	1815.7	1968.0	2245.6
52.5°	1887.0	1838.4	1797.1	1840.8	1901.0	1939.5	2202.5	2177.4	1940.7	2135.4	2438.7
55°	1887.9	1874.7	1906.1	1938.2	2028.2	2075.5	2375.5	2309.1	2042.5	2299.9	2596.0
57.5°	1995.4	1973.9	2040.5	2055.3	2172.9	2226.3	2547.5	2423.7	2146.2	2425.9	2680.8
60°	2137.7	2119.3	2173.8	2212.8	2351.9	2423.3	2731.3	2541.5	2227.6	2521.1	2676.8
62.5°	2383.3	2362.5	2361.8	2416.5	2603.9	2686.9	2937.5	2657.0	2259.9	2539.9	2562.6
65°	2743.0	2709.8	2647.2	2673.2	2951.8	3034.6	3167.9	2740.7	2217.3	2439.0	2268.5
67.5°	3093.0	3091.8	3014.9	3068.3	3411.3	3477.7	3430.4	2749.0	2084.3	2087.4	1746.6
70°	3441.8	3446.3	3433.3	3619.1	4032.1	4101.2	3709.9	2637.5	1785.2	1507.4	1046.4
72.5°	3718.2	3717.1	3782.6	4261.6	4837.8	4822.3	3945.5	2299.6	1281.7	813.7	500.1
75°	3539.2	3500.2	3695.3	4579.8	5307.3	5231.7	3745.2	1604.1	665.2	370.4	269.2
77.5°	2308.4	2345.4	2631.9	3783.3	4642.3	4550.4	2747.7	748.4	313.4	243.0	195.2
80°	835.9	875.0	1232.4	2143.0	3198.4	3183.4	1353.1	307.6	212.0	183.5	142.2
82.5°	287.6	302.0	486.2	951.7	1805.8	1873.1	509.1	174.8	154.1	130.1	97.4
85°	112.9	129.2	222.3	457.9	910.9	917.6	206.2	104.5	107.2	85.3	53.4
87.5°	42.9	52.1	106.3	212.7	416.0	382.1	73.8	49.8	61.0	50.7	25.4
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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Scaled Data Report

REPORT NUMBER: P318895
CATALOG NUMBER: GLEON-SA1D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	1016.8	1021.5	1031.4	1038.1	1045.3	1047.3	1048.2	1050.0	1051.8	1051.1	1051.3
5°	1023.1	1032.3	1048.2	1054.9	1058.1	1054.5	1047.5	1041.9	1037.9	1035.6	1034.9
7.5°	1033.4	1046.4	1063.4	1062.3	1055.1	1039.2	1021.3	1007.8	996.6	992.5	990.3
10°	1047.1	1062.3	1074.2	1061.4	1040.6	1013.0	986.0	965.2	948.3	941.8	940.7
12.5°	1064.6	1080.0	1082.3	1055.1	1020.6	982.9	946.3	918.7	893.6	885.5	883.7
15°	1087.2	1101.8	1087.9	1044.1	995.9	945.2	897.9	860.4	833.9	824.1	820.5
17.5°	1111.0	1124.9	1089.0	1026.0	963.6	900.6	841.1	802.7	772.5	761.0	759.7
20°	1139.5	1145.8	1084.3	999.9	919.2	842.7	780.1	744.0	727.8	719.7	718.8
22.5°	1174.7	1168.0	1073.5	964.7	862.9	775.8	724.9	708.1	704.0	702.2	702.9
25°	1212.0	1191.3	1057.6	918.7	791.7	709.0	684.5	689.2	694.6	693.9	693.9
27.5°	1253.0	1215.1	1033.2	857.7	713.0	654.2	657.1	674.4	682.5	682.3	682.0
30°	1305.7	1242.0	1002.0	784.3	639.4	615.6	633.4	654.4	665.4	665.0	665.2
32.5°	1370.6	1271.6	959.6	702.5	586.2	587.1	607.6	628.4	641.2	640.1	640.3
35°	1446.4	1304.8	902.1	621.7	551.0	564.5	580.6	595.2	607.3	605.8	604.2
37.5°	1529.0	1337.4	825.8	549.4	522.3	543.4	556.8	559.3	564.9	560.9	558.0
40°	1607.5	1362.3	727.6	490.2	493.4	525.4	534.2	524.3	514.2	512.9	508.8
42.5°	1675.9	1370.6	628.2	442.9	462.8	506.6	512.0	491.3	473.2	464.6	461.0
45°	1748.2	1373.5	535.5	403.2	433.5	489.8	495.6	468.0	442.4	424.0	418.0
47.5°	1842.6	1394.6	463.5	373.8	411.0	478.5	486.8	449.4	416.2	389.9	384.3
50°	1966.2	1436.3	405.0	351.3	396.4	471.1	480.6	431.2	394.6	363.0	357.4
52.5°	2103.5	1474.7	357.6	333.2	382.3	458.1	472.5	418.2	374.4	338.1	332.0
55°	2199.6	1445.3	319.5	314.3	363.9	439.5	461.3	407.2	345.5	313.9	308.5
57.5°	2218.0	1344.8	290.5	294.8	341.7	416.2	444.0	382.7	329.8	303.3	297.7
60°	2167.7	1204.8	269.0	276.9	317.9	386.8	411.7	365.5	314.8	292.1	287.4
62.5°	2041.4	1061.4	253.1	260.7	295.7	356.9	391.5	347.3	299.5	279.3	274.6
65°	1786.3	891.1	237.8	246.3	275.1	331.1	373.3	330.5	284.5	269.0	264.5
67.5°	1348.4	667.5	223.5	231.1	256.7	308.7	353.6	313.9	269.9	260.0	254.6
70°	794.0	418.0	207.1	215.2	237.4	285.4	332.5	295.7	251.7	247.2	240.3
72.5°	369.5	251.5	188.5	196.3	213.1	254.2	305.3	271.9	230.2	220.3	210.9
75°	*220.5*	*184.0*	*166.5*	*173.4*	*185.3*	*221.0*	*271.2*	*247.7*	*209.8*	*196.8*	*186.9*
77.5°	164.9	140.7	142.2	149.6	159.3	193.4	240.3	228.6	194.1	184.0	177.2
80°	118.7	106.8	116.0	124.1	134.2	175.9	230.2	211.3	175.4	162.0	155.7
82.5°	79.2	76.7	87.3	95.6	105.4	153.9	216.3	185.1	149.9	132.8	118.9
85°	43.7	46.2	58.8	62.4	70.9	108.4	177.2	148.7	112.9	90.9	86.8
87.5°	18.2	21.3	31.6	30.5	37.7	64.6	116.7	89.7	71.8	53.6	41.7
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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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

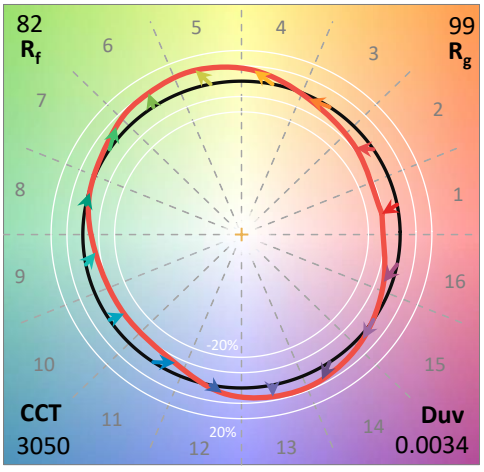
Test Information

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

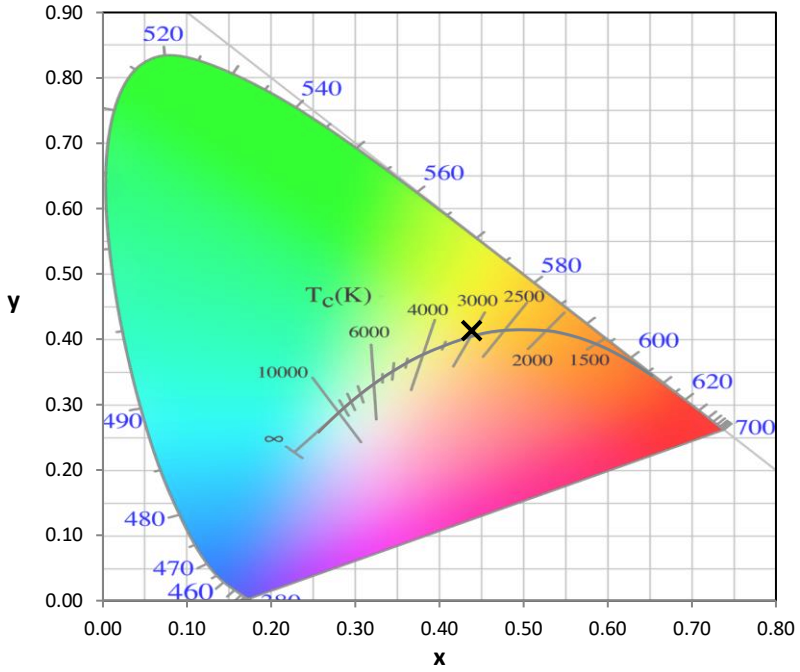
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

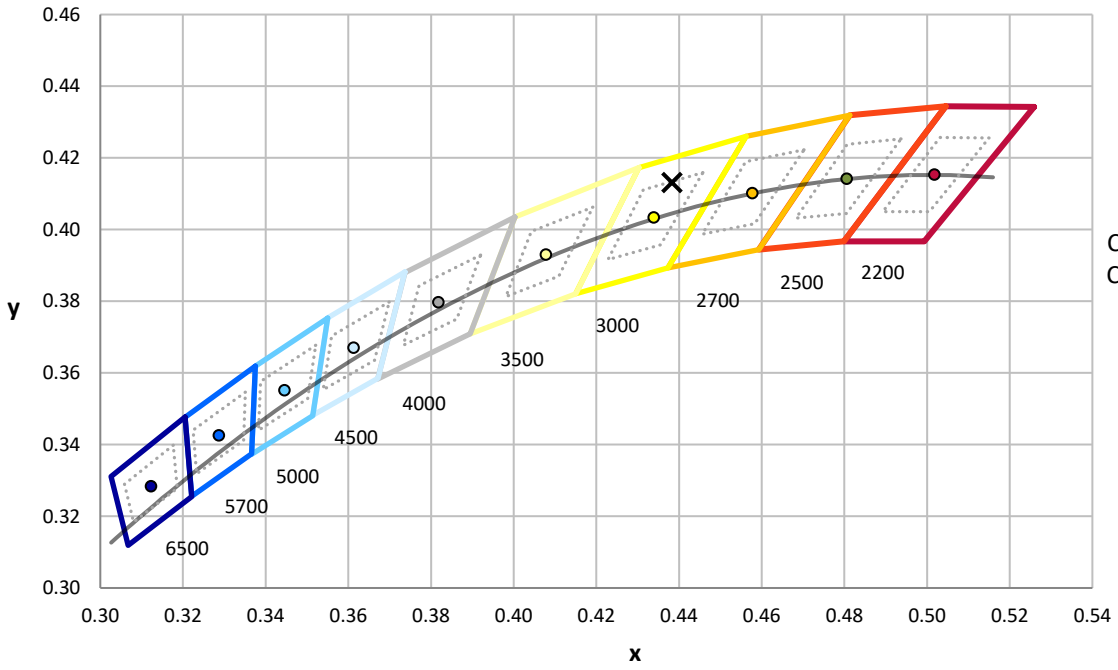
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

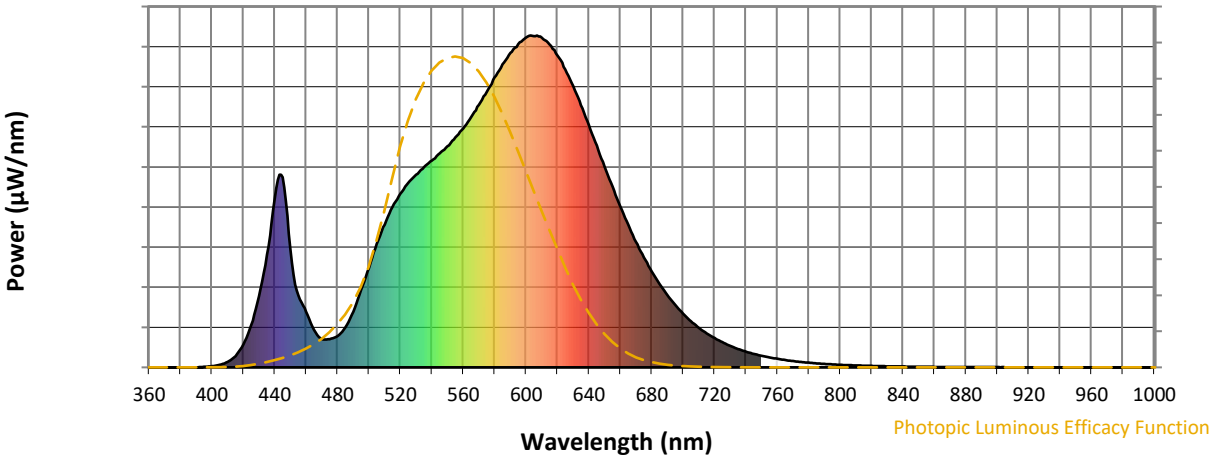


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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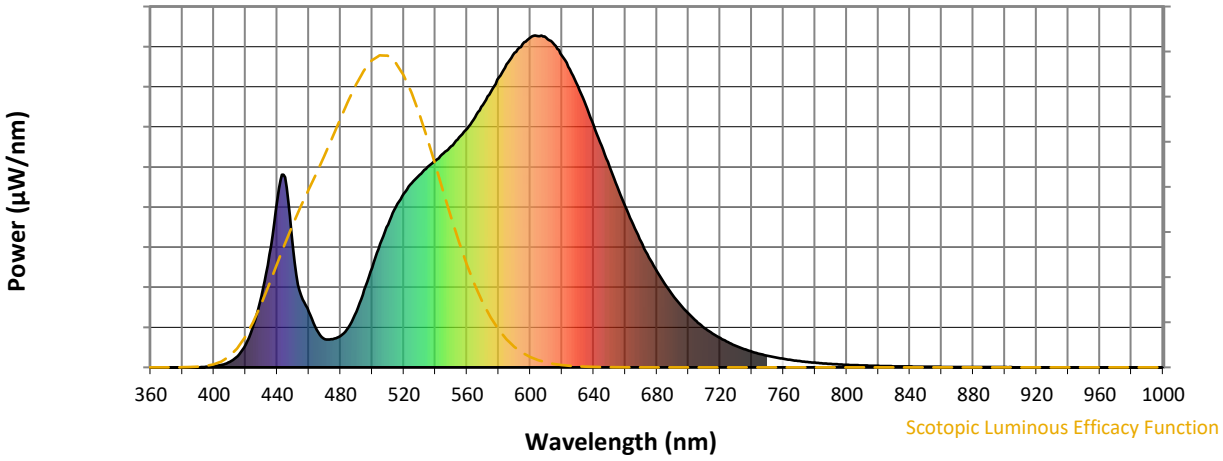
Scotopic Flux vs. Wavelength



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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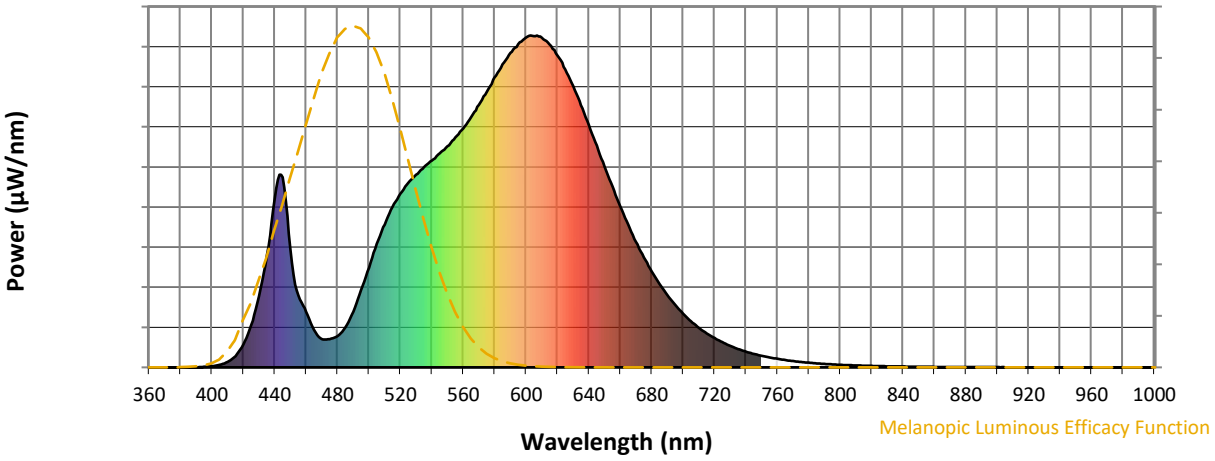
Melanopic Flux vs. Wavelength



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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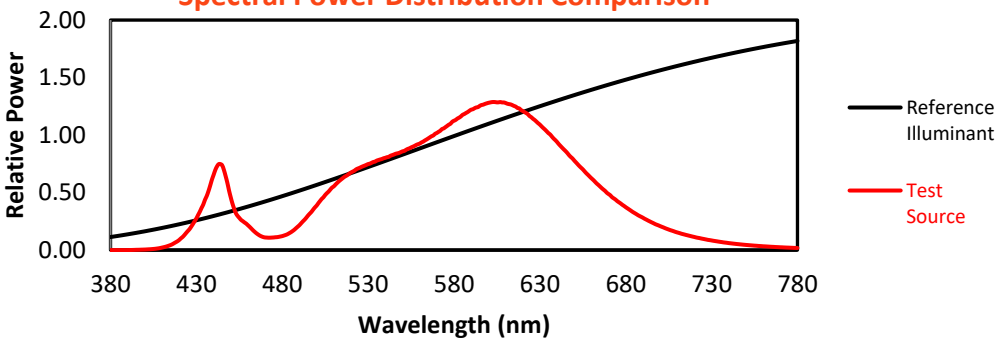
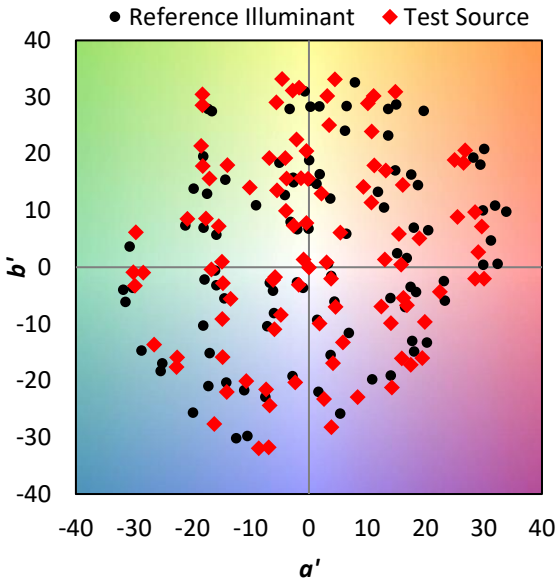
Summary

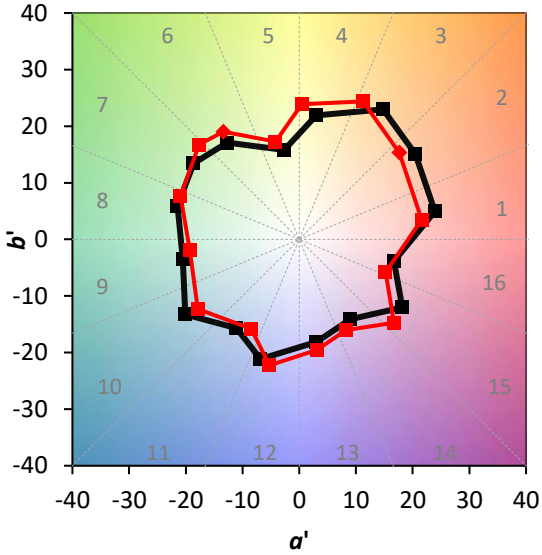
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

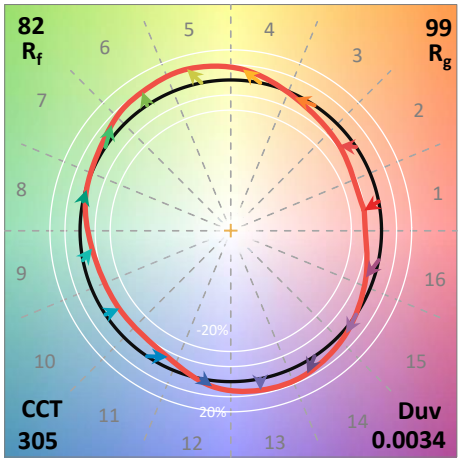
Spectral Power Distribution Comparison

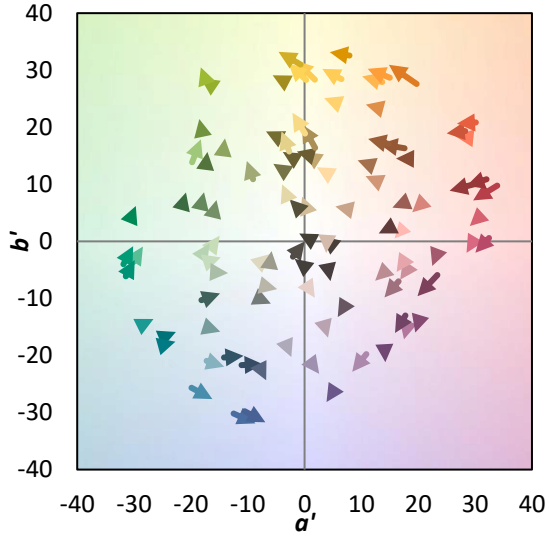


Color Vector Graphics









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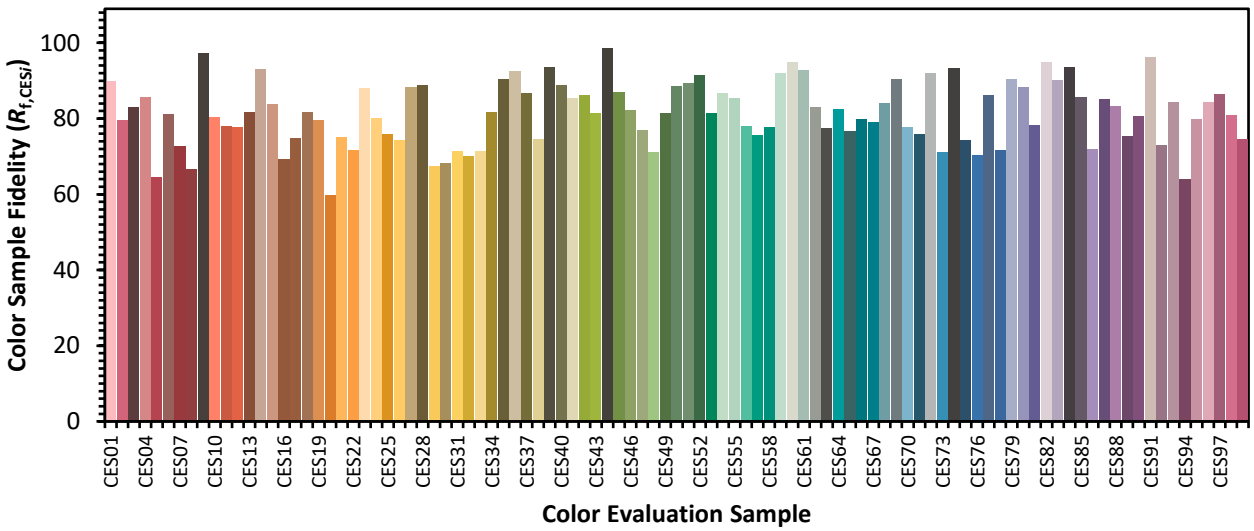
Individual Sample Fidelity Index ($R_{f,i}$)

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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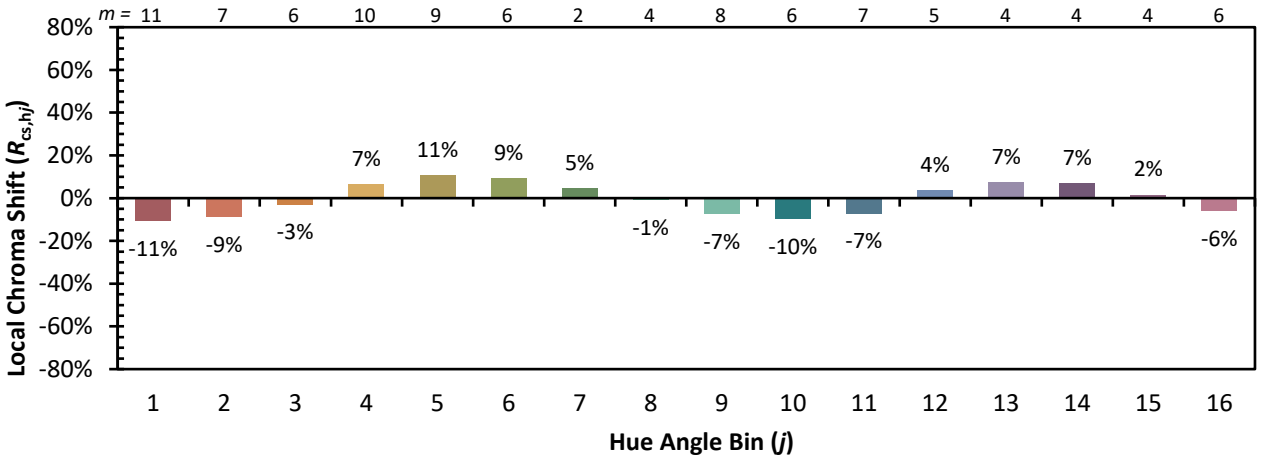
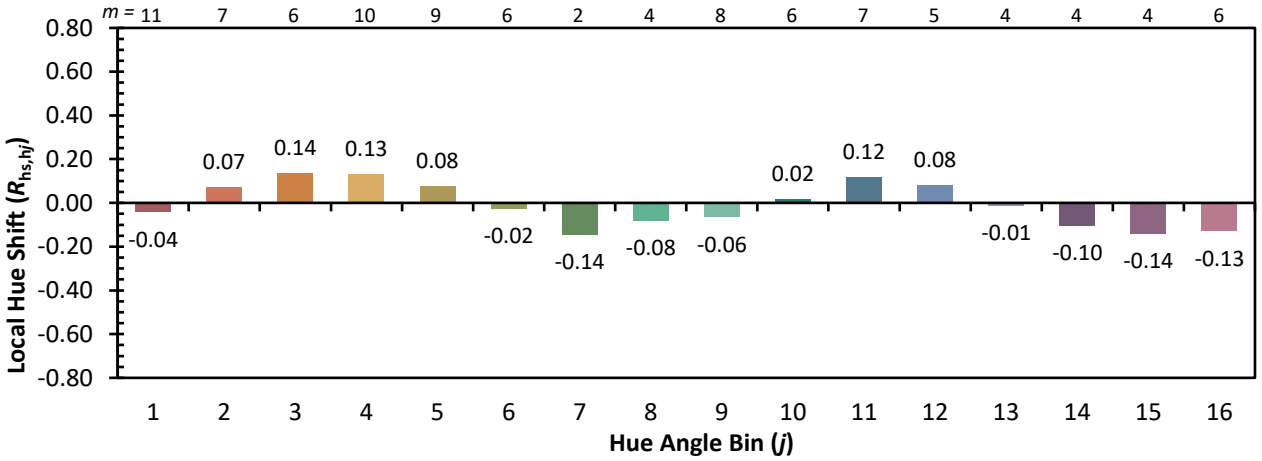
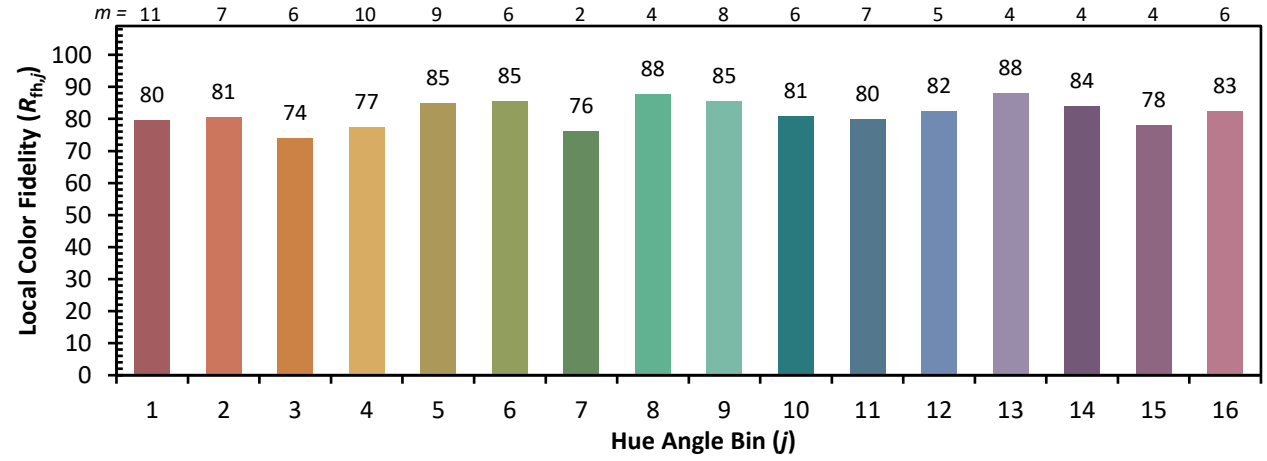
Color Rendition by Hue-Angle Bin







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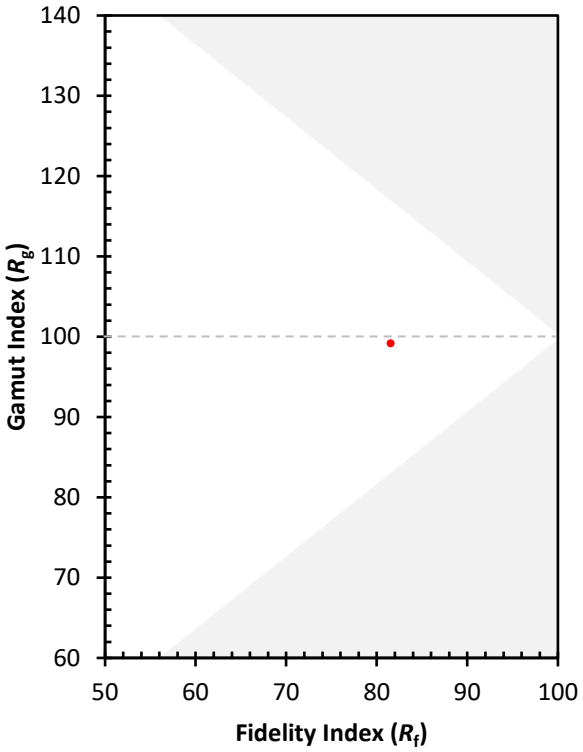
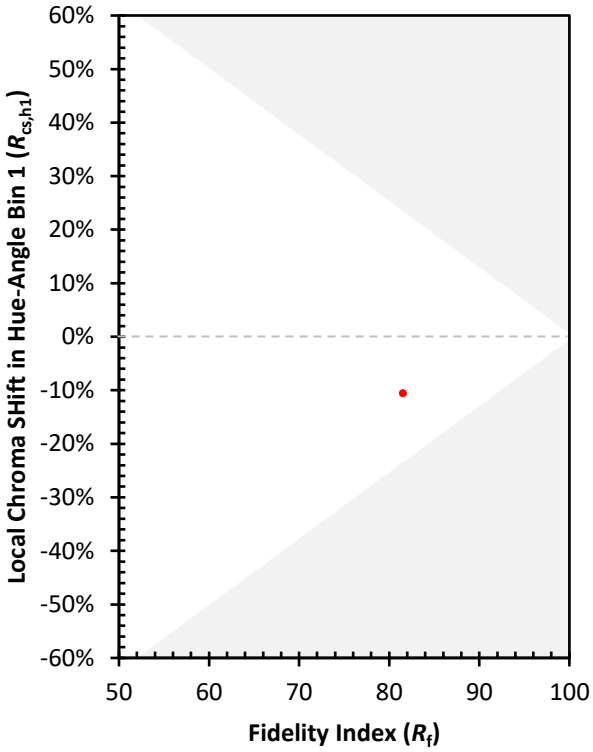
Measure Comparisons





(END OF REPORT)