

Signify Classified - Internal
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: P320175

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6134 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

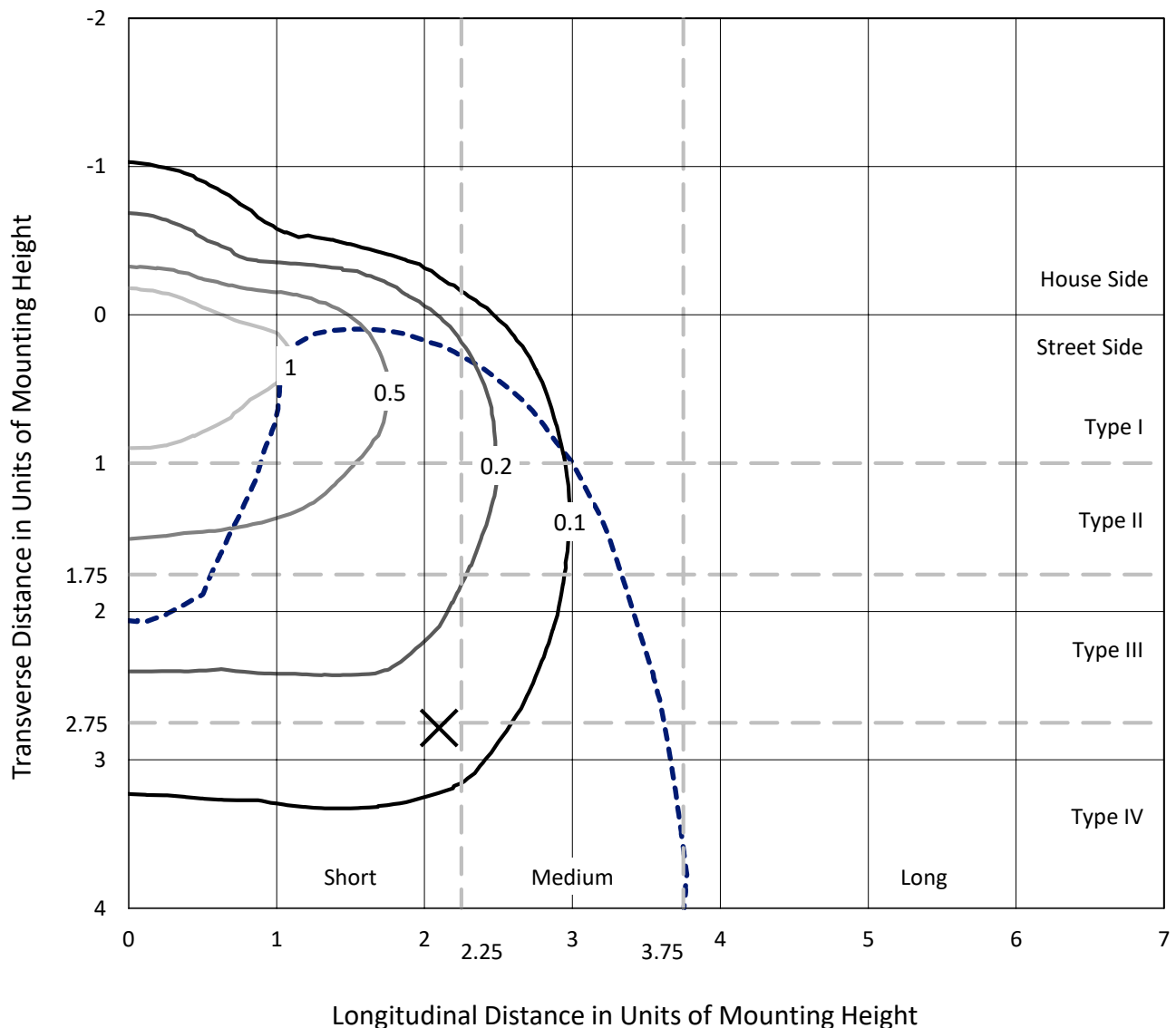
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

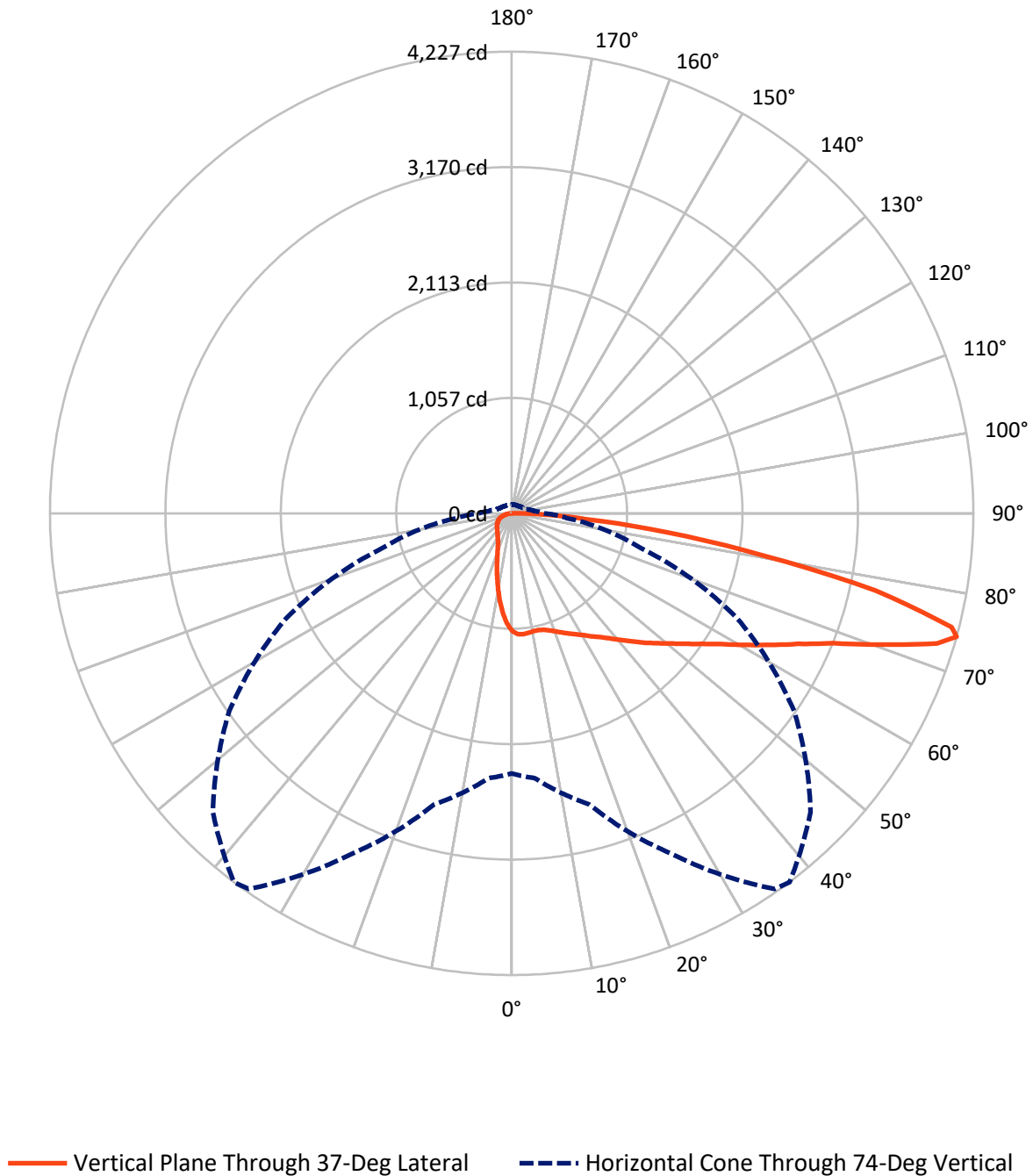
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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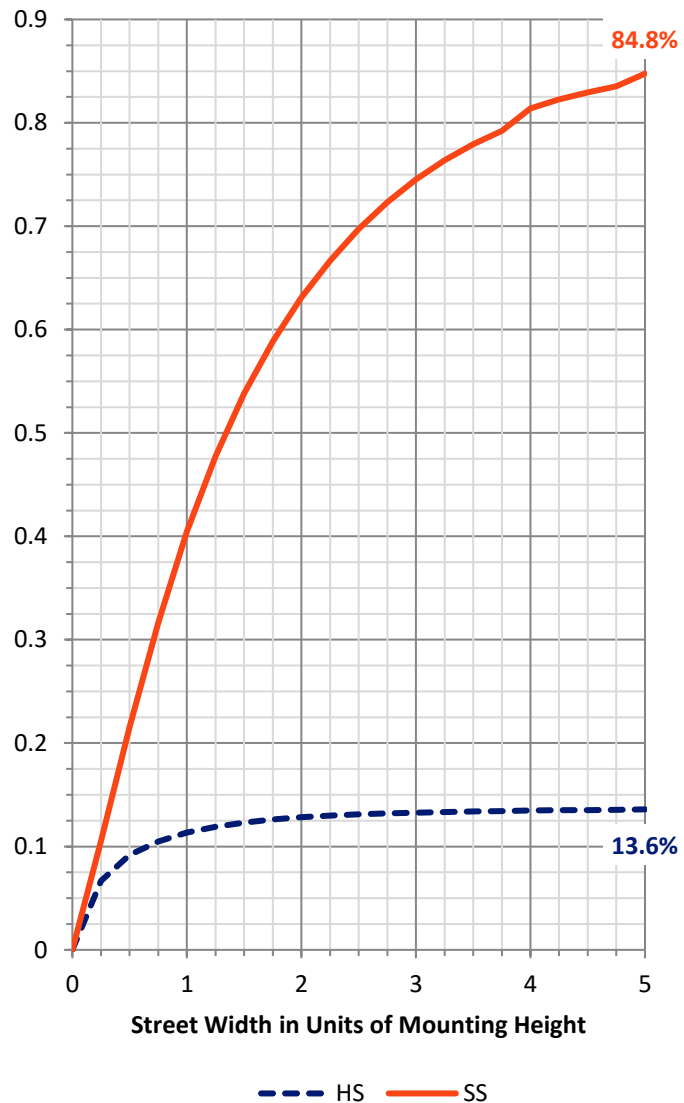
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.0	0.0	844.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	5290.0	0.0	5290.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	6134.0	0.0	6134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.6
10°-20°	244.0	4.0
20°-30°	375.9	6.1
30°-40°	546.6	8.9
40°-50°	804.5	13.1
50°-60°	1129.8	18.4
60°-70°	1430.0	23.3
70°-80°	1259.1	20.5
80°-90°	249.0	4.1
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°	6134.0	100.0
0°-180°	6134.0	100.0

Coefficient of Utilization



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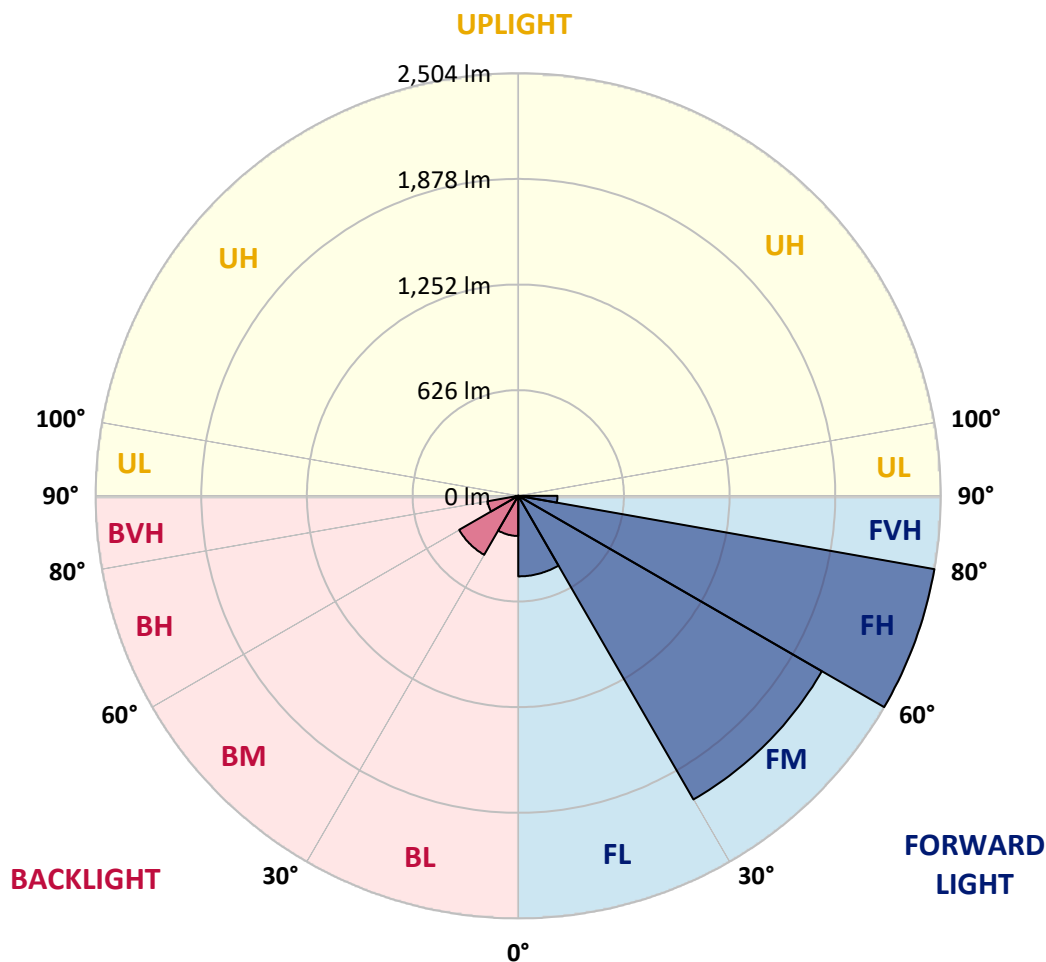
CATALOG NUMBER: GLEON-SA1D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.3	7.8			
FM	(30°-60°)	2077.0	33.9			
FH	(60°-80°)	2503.6	40.8			G2/5000
FVH	(80°-90°)	232.1	3.8			G3/500
BL	(0°-30°)	237.7	3.9	B1/500		
BM	(30°-60°)	403.9	6.6	B1/1000		
BH	(60°-80°)	185.5	3.0	B1/500		G1/500
BVH	(80°-90°)	16.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1117.7	1118.0	1117.7	1116.0	1111.9	1108.4	1105.6	1101.5	1092.5	1085.5	1075.2
5°	1128.3	1127.0	1126.2	1122.9	1116.4	1112.5	1107.1	1099.4	1084.5	1070.6	1053.8
7.5°	1123.4	1121.8	1119.9	1116.0	1108.7	1105.4	1097.9	1087.7	1069.8	1051.6	1027.4
10°	1108.0	1107.6	1106.7	1105.9	1099.6	1097.0	1090.1	1079.3	1061.6	1039.5	1011.2
12.5°	1090.9	1092.0	1095.5	1100.0	1097.2	1095.9	1091.6	1084.2	1066.1	1042.3	1008.2
15°	1080.1	1083.2	1092.5	1104.3	1106.7	1106.3	1105.2	1100.4	1081.2	1054.9	1015.1
17.5°	1076.5	1081.4	1099.2	1118.8	1125.7	1127.2	1127.7	1119.5	1098.1	1070.2	1022.2
20°	1083.2	1089.4	1115.4	1142.4	1153.4	1154.3	1152.3	1138.0	1114.1	1083.4	1026.1
22.5°	1103.5	1109.1	1141.5	1172.0	1184.5	1185.8	1180.0	1158.4	1130.9	1098.9	1031.5
25°	1142.6	1149.5	1181.9	1212.4	1218.9	1219.1	1210.6	1183.9	1153.0	1120.8	1043.2
27.5°	1193.6	1200.5	1229.7	1259.5	1256.0	1254.1	1242.6	1215.8	1181.7	1150.8	1063.9
30°	1250.4	1258.0	1285.6	1306.8	1298.6	1294.7	1285.4	1250.8	1221.7	1191.8	1095.7
32.5°	1309.2	1316.1	1340.3	1354.8	1344.4	1342.7	1328.6	1297.1	1273.7	1254.5	1147.1
35°	1369.5	1374.4	1398.2	1406.4	1392.6	1392.1	1388.3	1359.3	1344.6	1353.7	1221.9
37.5°	1431.0	1432.3	1452.6	1453.1	1449.0	1450.7	1454.8	1436.7	1440.8	1469.1	1319.1
40°	1485.9	1489.4	1504.1	1508.6	1515.7	1521.8	1542.3	1530.4	1562.2	1612.3	1440.1
42.5°	1526.5	1533.2	1556.8	1568.5	1591.6	1601.1	1630.0	1641.1	1705.0	1780.2	1584.0
45°	1560.9	1571.3	1609.1	1633.1	1672.2	1688.8	1730.3	1767.2	1866.4	1962.4	1735.5
47.5°	1598.1	1611.2	1658.6	1704.4	1757.5	1776.3	1851.7	1907.0	2038.6	2145.6	1878.3
50°	1652.7	1662.9	1709.1	1781.1	1847.4	1871.6	1976.0	2055.3	2213.6	2320.2	2002.1
52.5°	1729.0	1725.1	1764.2	1865.1	1954.1	1984.0	2108.6	2213.0	2391.0	2478.1	2106.7
55°	1805.7	1799.2	1826.7	1953.1	2078.6	2109.9	2254.7	2371.4	2559.8	2620.3	2186.9
57.5°	1891.1	1878.7	1901.9	2052.2	2220.3	2257.7	2418.3	2539.7	2725.7	2735.2	2237.8
60°	1979.0	1962.4	1988.3	2175.2	2400.3	2444.4	2609.7	2703.9	2882.2	2827.3	2254.3
62.5°	2055.9	2044.2	2084.2	2312.4	2603.2	2651.6	2797.7	2878.5	3036.4	2865.5	2195.1
65°	2123.1	2125.1	2194.2	2466.7	2829.4	2881.1	3013.3	3093.7	3157.9	2842.8	2056.6
67.5°	2203.3	2214.3	2332.3	2669.8	3114.2	3170.8	3327.1	3328.4	3225.7	2709.7	1783.9
70°	2320.2	2342.9	2522.2	2951.5	3519.1	3596.9	3717.5	3466.2	3130.4	2348.9	1403.6
72.5°	2423.9	2466.2	2724.2	3273.9	4012.7	4071.6	3945.9	3386.7	2732.2	1760.3	874.4
74°	2381.8	2434.3	2761.0	3432.7	4198.5	4226.8	3868.8	3154.6	2278.0	1219.1	508.2
75°	2291.0	2348.0	2707.4	3431.2	4174.9	4159.2	3682.5	2889.5	1876.1	831.4	338.2
77.5°	1848.9	1909.2	2281.3	2940.7	3423.2	3408.3	2828.8	1938.4	821.7	272.7	171.8
80°	1075.0	1121.0	1416.1	1867.5	2308.3	2335.3	1860.4	959.1	323.2	153.2	116.5
82.5°	477.5	509.3	684.1	953.3	1393.0	1427.8	974.3	502.6	199.6	93.1	70.0
85°	313.3	336.9	415.3	454.0	663.3	687.1	476.9	391.3	131.8	51.2	51.4
87.5°	225.4	248.0	308.5	269.4	304.4	288.2	259.5	362.1	52.9	29.2	17.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1070.6	1067.2	1059.4	1044.7	1036.5	1029.6	1018.1	1011.4	1008.4	1008.2	1009.5
5°	1044.1	1036.1	1016.0	991.3	971.7	953.7	931.5	918.1	908.6	903.0	904.5
7.5°	1013.2	1000.6	969.1	929.8	898.2	863.4	829.1	808.5	792.5	780.7	782.8
10°	992.0	974.7	928.7	872.1	819.6	769.0	721.7	693.4	670.9	653.6	654.9
12.5°	984.9	961.5	897.8	822.2	748.5	679.3	617.5	574.1	551.0	531.3	532.8
15°	985.9	954.6	871.8	777.2	684.5	597.4	522.5	471.7	440.4	426.7	427.0
17.5°	986.8	946.6	844.6	729.0	621.2	520.9	439.5	388.1	358.5	345.9	346.1
20°	984.0	933.6	810.9	673.7	555.1	450.7	371.9	328.2	305.7	296.0	296.0
22.5°	980.3	918.3	772.9	618.2	489.8	389.8	323.5	290.2	277.2	270.7	270.5
25°	982.0	906.8	734.0	561.1	429.8	341.2	291.3	269.2	260.6	256.5	256.3
27.5°	991.3	901.4	698.1	504.3	377.3	304.7	269.7	254.1	248.5	245.9	245.9
30°	1008.2	901.4	660.7	455.9	333.6	277.7	253.0	242.4	238.5	236.8	236.8
32.5°	1037.6	906.4	624.7	407.9	298.8	256.5	239.2	232.1	229.0	228.2	228.2
35°	1088.1	923.3	589.4	362.6	270.7	239.2	226.0	221.9	219.7	219.5	220.2
37.5°	1159.2	957.6	556.4	329.1	250.9	225.1	215.0	211.7	210.5	211.5	212.4
40°	1248.7	1004.3	526.3	298.8	235.7	213.9	204.8	202.7	202.0	203.5	204.8
42.5°	1356.7	1067.4	501.7	277.0	224.1	204.4	196.2	193.6	193.0	194.7	196.4
45°	1473.6	1135.2	484.4	260.8	215.0	197.3	188.6	185.8	184.5	185.4	187.3
47.5°	1579.9	1199.4	477.5	249.3	206.3	191.2	181.9	178.5	176.3	175.9	177.4
50°	1669.6	1247.2	480.8	242.4	199.4	184.5	175.4	171.6	168.3	166.4	167.5
52.5°	1734.8	1277.2	483.8	239.4	194.0	177.2	168.3	164.6	160.3	157.1	157.1
55°	1782.2	1284.1	477.1	237.0	189.9	169.2	160.3	156.9	152.5	148.9	148.4
57.5°	1800.7	1264.7	452.2	233.6	187.1	161.6	151.9	149.3	145.6	141.3	141.1
60°	1775.7	1204.6	404.3	226.2	183.4	155.4	143.5	141.7	140.0	135.9	135.7
62.5°	1675.0	1072.8	342.3	211.3	176.1	148.7	135.7	136.6	136.8	134.0	133.5
65°	1492.4	891.7	281.8	191.9	165.1	140.7	127.7	131.8	134.2	133.7	133.1
67.5°	1227.1	694.0	238.8	171.3	150.6	129.6	119.1	123.8	125.8	127.3	126.8
70°	910.7	489.4	197.5	149.7	133.1	116.7	107.8	110.2	108.9	110.6	111.3
72.5°	507.8	293.6	161.0	128.1	114.9	101.6	95.3	94.9	92.0	92.0	92.0
74°	304.7	215.4	141.5	114.7	103.9	91.6	86.2	84.3	81.7	81.9	81.7
75°	245.0	185.2	129.9	105.9	96.2	85.8	80.4	77.8	75.8	75.8	75.6
77.5°	154.7	140.7	104.6	84.3	76.9	70.7	67.0	63.5	63.5	63.3	63.1
80°	116.9	111.9	81.5	63.7	59.0	54.2	51.9	50.3	50.3	51.0	50.8
82.5°	80.2	84.3	57.3	44.5	42.1	38.7	38.2	38.5	37.8	36.9	36.7
85°	58.6	63.3	38.7	28.1	25.7	23.6	25.3	26.1	25.1	23.1	22.3
87.5°	22.5	41.5	20.7	11.7	10.8	9.3	10.8	11.2	12.1	9.5	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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.

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
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

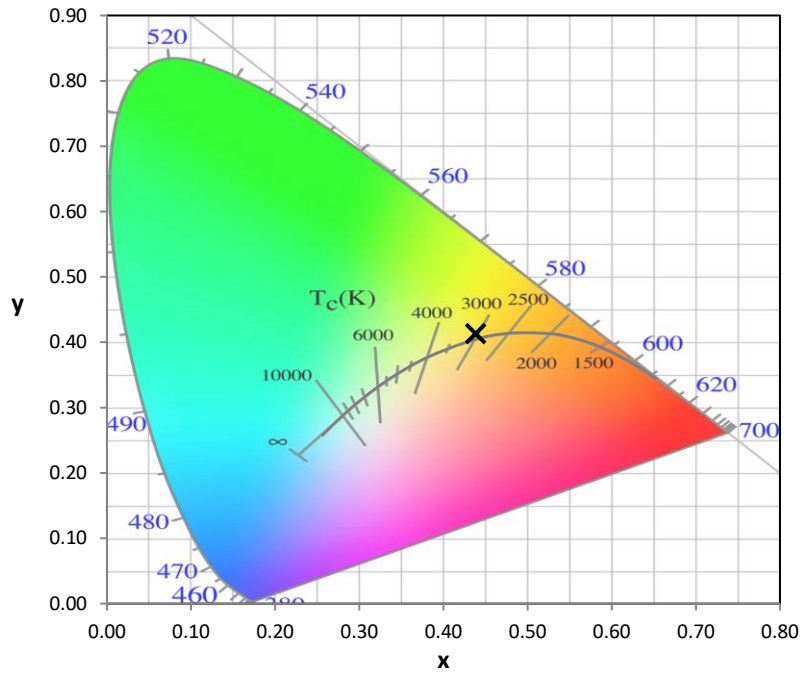
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

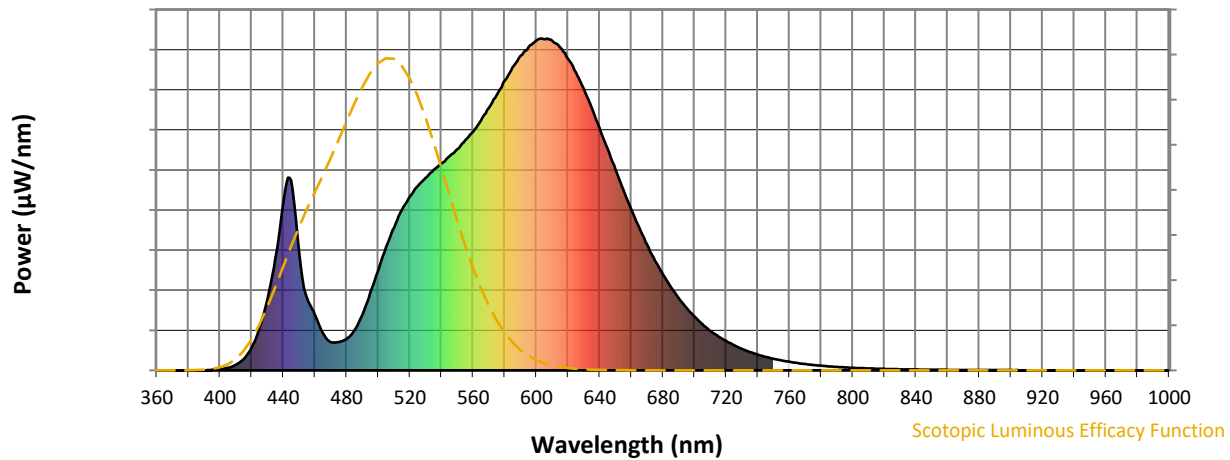


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



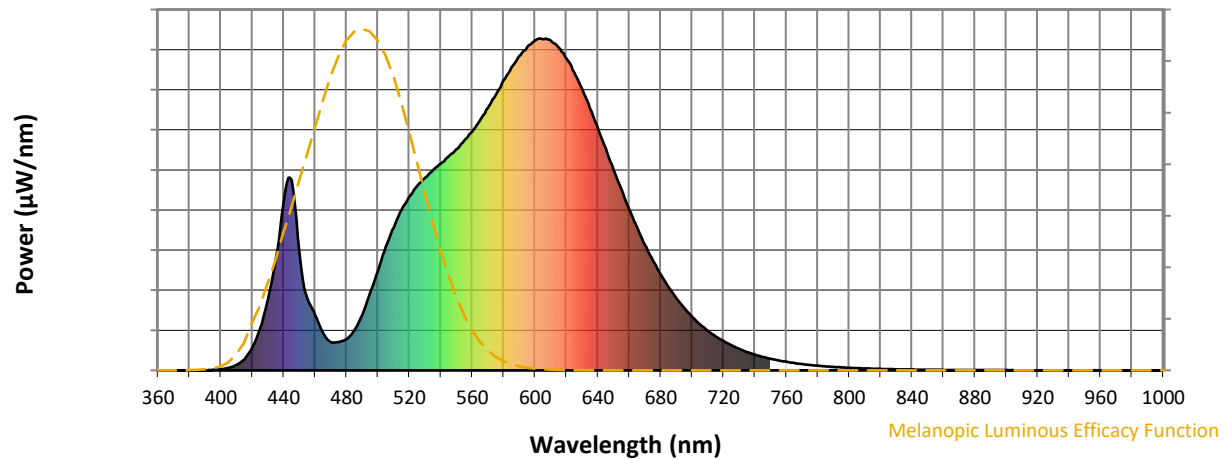
Scotopic Lumens: NR

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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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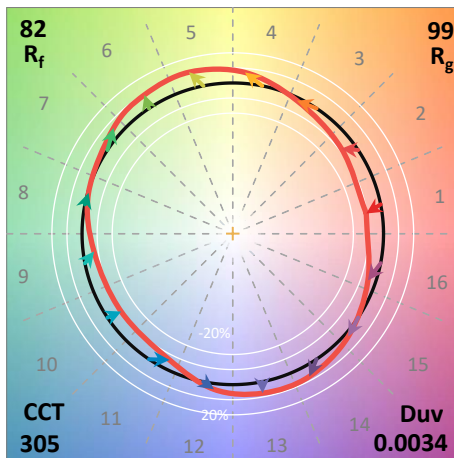
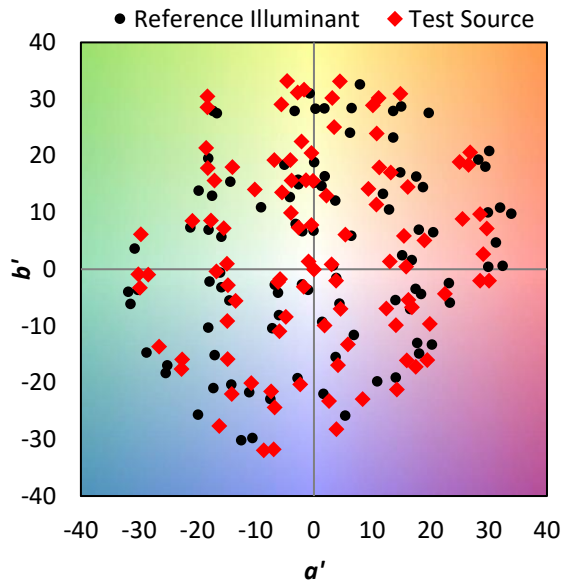
TM-30-18

Summary

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



Color Vector Graphics

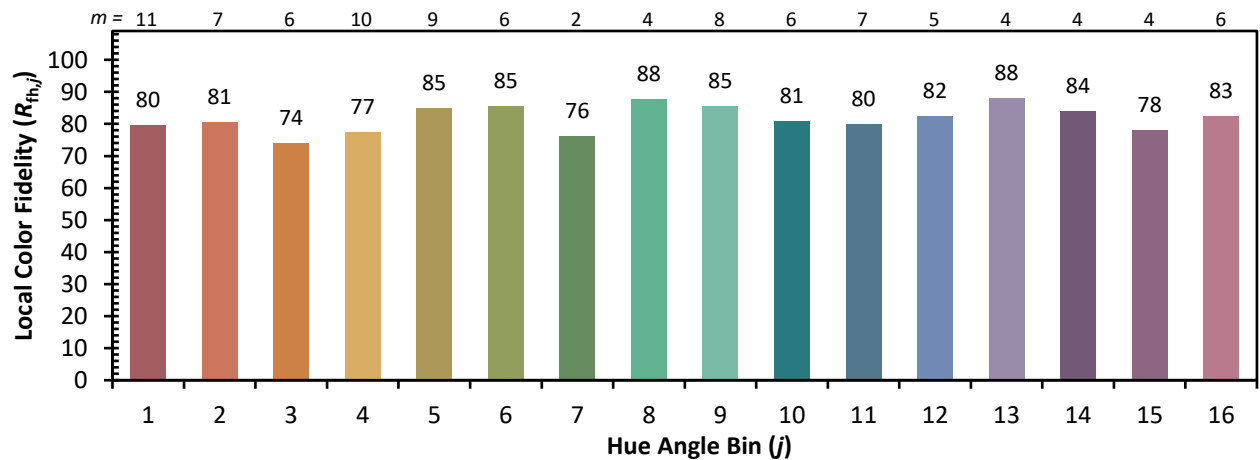
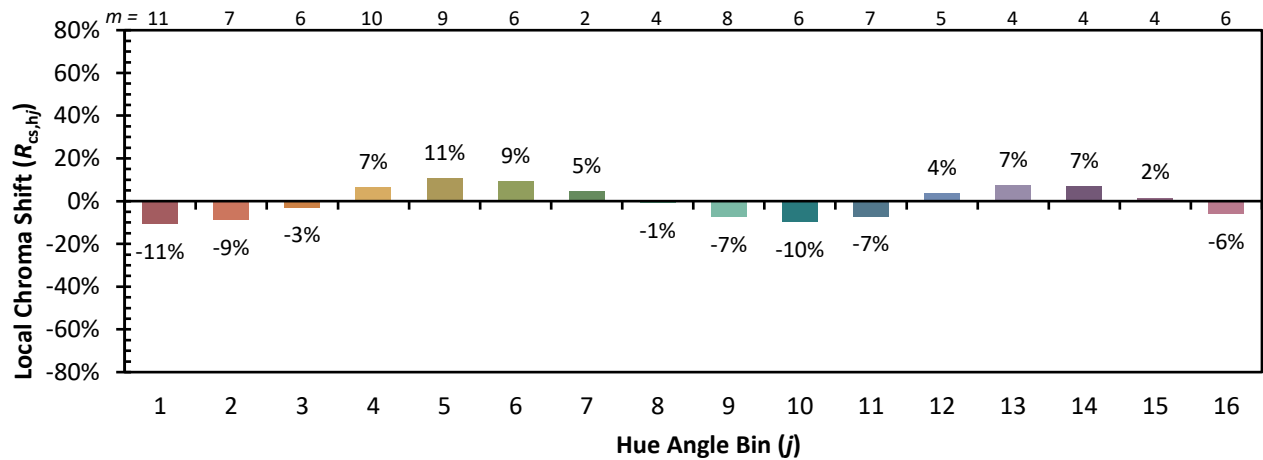


Individual Sample Fidelity Index ($R_{f,i}$)

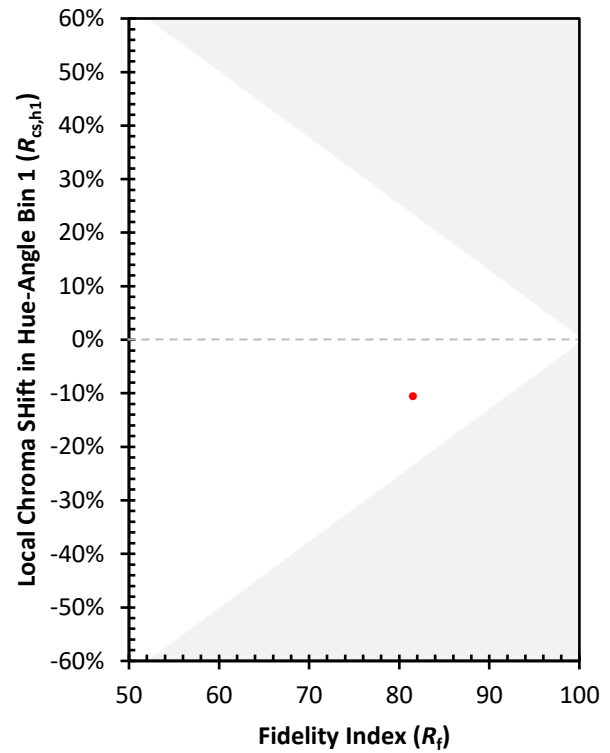
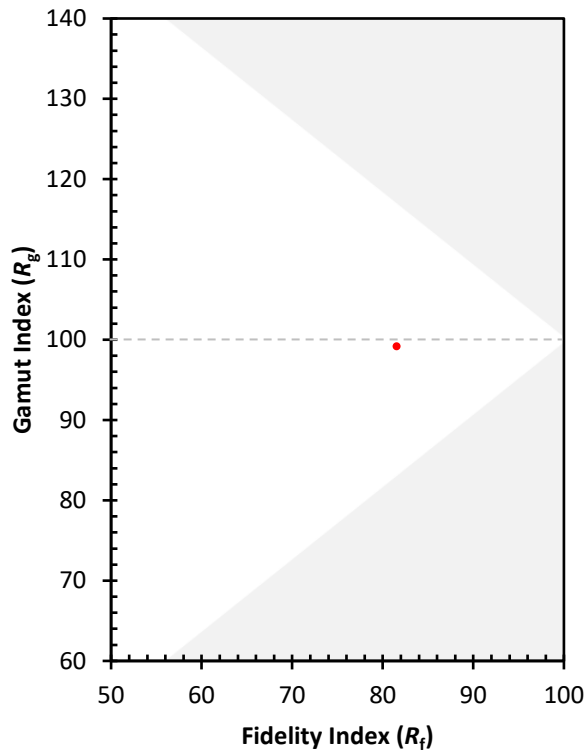
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)