

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: P318255

Luminaire Tested: **GLEON-SA1D-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6335 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

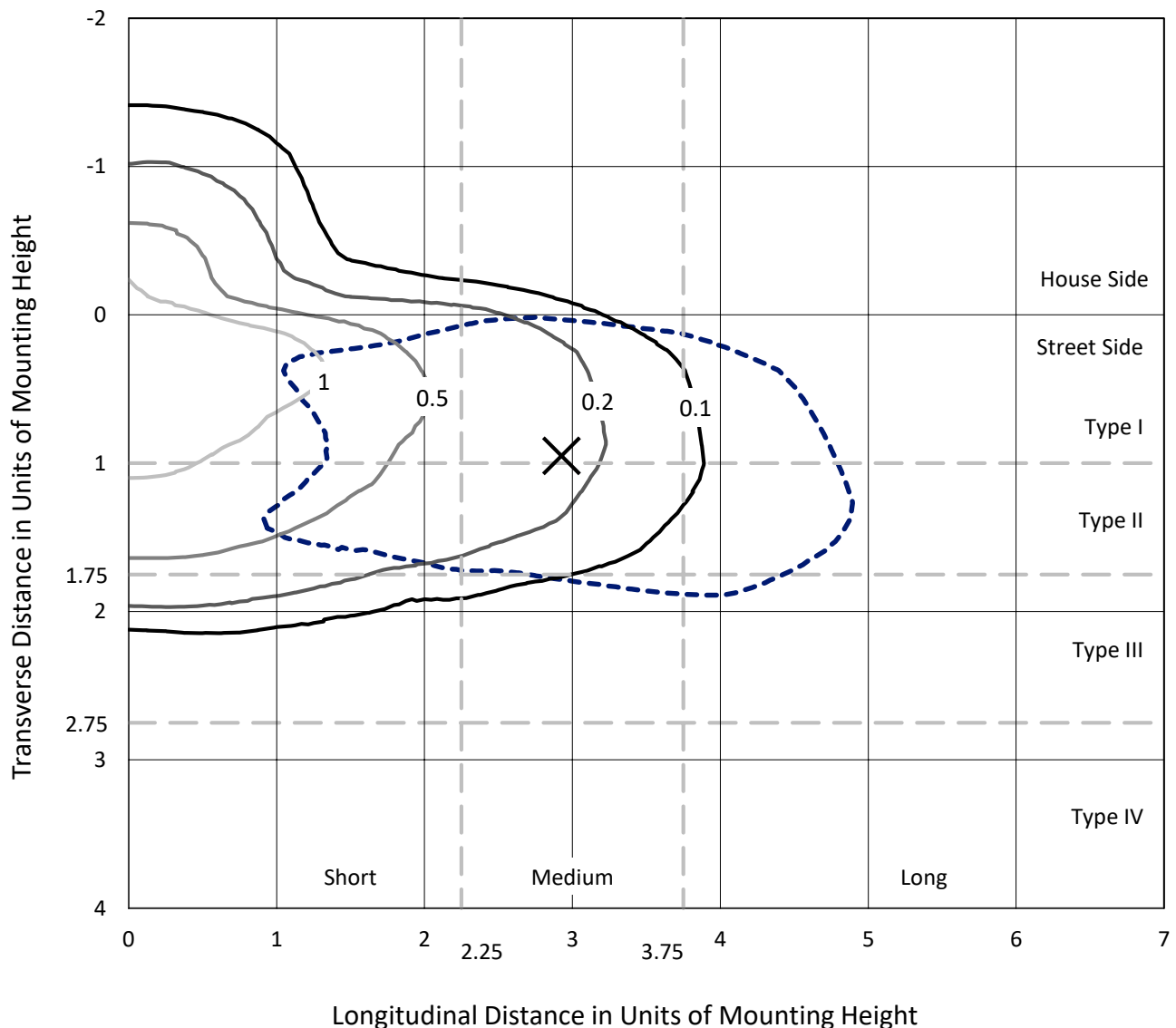
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

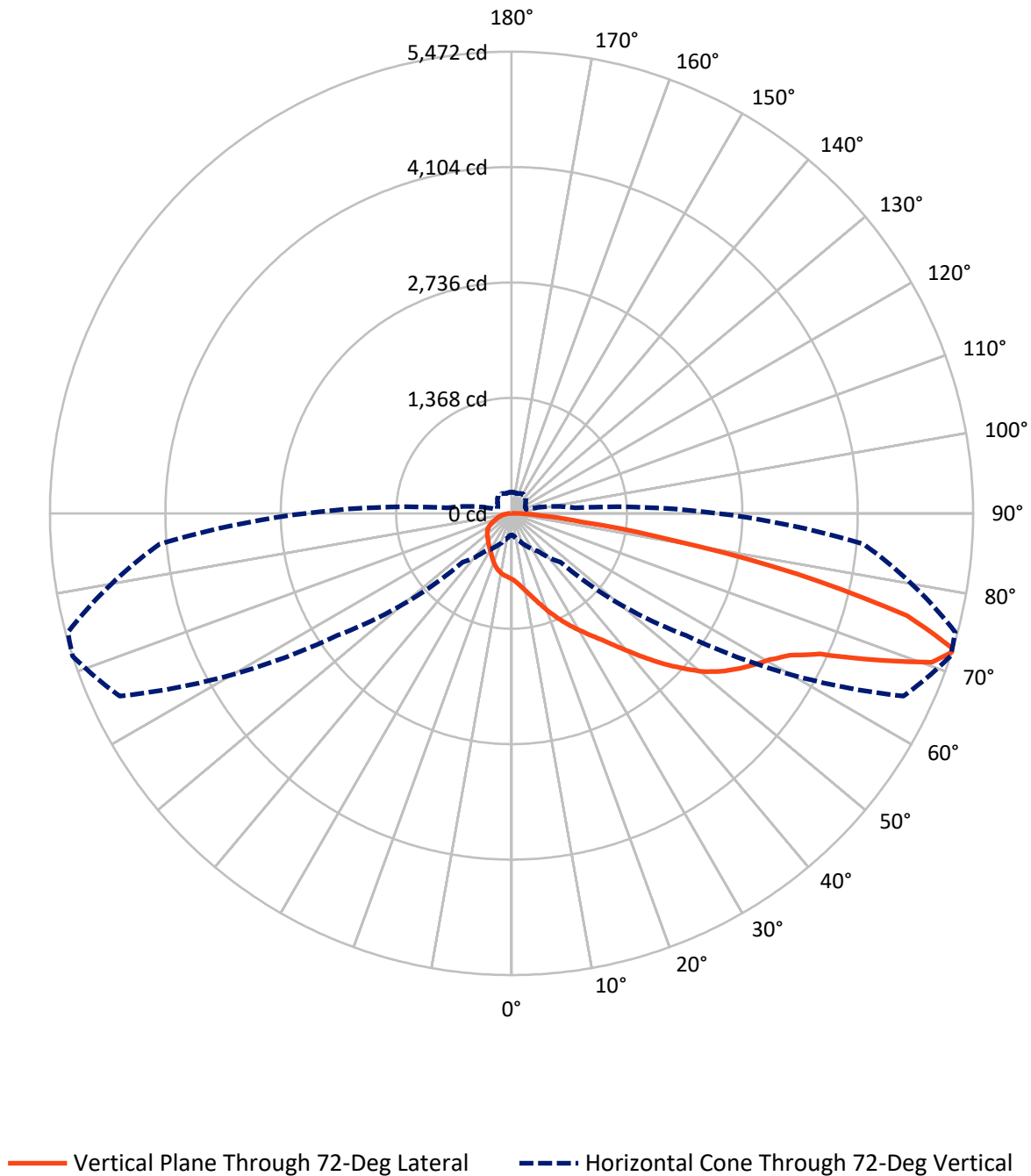
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA1D-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.2	0.0	1175.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5159.8	0.0	5159.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	6335.0	0.0	6335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.2
10°-20°	252.4	4.0
20°-30°	442.2	7.0
30°-40°	655.7	10.4
40°-50°	959.0	15.1
50°-60°	1319.6	20.8
60°-70°	1469.1	23.2
70°-80°	995.4	15.7
80°-90°	163.6	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°	6335.0	100.0
0°-180°	6335.0	100.0

Coefficient of Utilization



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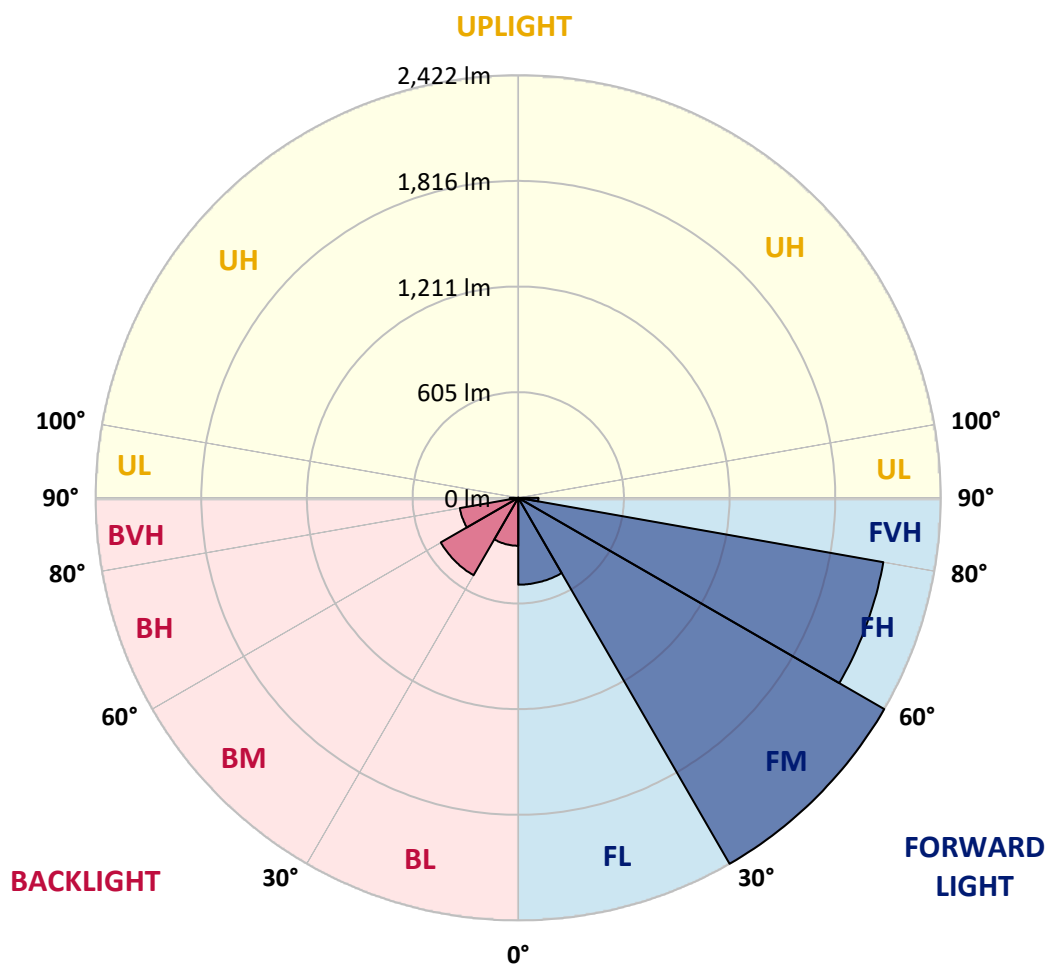
CATALOG NUMBER: GLEON-SA1D-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.0	7.9			
FM	(30°-60°)	2422.0	38.2			
FH	(60°-80°)	2124.5	33.5			G2/5000
FVH	(80°-90°)	115.4	1.8			G2/225
BL	(0°-30°)	274.7	4.3	B1/500		
BM	(30°-60°)	512.3	8.1	B1/1000		
BH	(60°-80°)	340.0	5.4	B1/500		G1/500
BVH	(80°-90°)	48.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	861.0	859.6	855.1	855.1	846.3	838.9	825.0	815.6	804.5	800.5	787.4
5°	944.3	944.7	939.0	935.1	922.2	906.5	882.8	861.2	839.6	830.8	804.0
7.5°	1014.3	1013.4	1011.9	1008.6	996.6	980.5	948.4	916.4	884.5	871.4	825.2
10°	1059.2	1061.2	1062.5	1064.0	1059.0	1047.4	1017.1	978.1	936.4	918.5	850.5
12.5°	1081.9	1085.4	1091.5	1102.0	1110.3	1109.0	1086.9	1045.5	996.0	973.5	882.1
15°	1095.2	1099.8	1109.4	1128.2	1151.5	1164.8	1158.9	1121.4	1066.2	1038.5	920.7
17.5°	1103.5	1107.2	1122.0	1147.1	1181.8	1217.2	1232.6	1201.2	1145.6	1114.0	965.0
20°	1109.2	1112.0	1130.6	1160.0	1204.9	1261.2	1304.4	1296.6	1233.1	1192.1	1011.2
22.5°	1121.8	1124.2	1141.9	1171.6	1221.3	1293.9	1373.6	1385.3	1325.3	1278.9	1060.8
25°	1157.2	1157.2	1172.0	1192.7	1239.4	1322.3	1432.0	1484.1	1419.6	1365.5	1106.6
27.5°	1224.6	1223.9	1229.4	1236.6	1271.9	1351.1	1484.1	1571.4	1517.3	1458.2	1151.1
30°	1304.4	1308.8	1309.4	1305.9	1322.5	1387.1	1532.3	1663.4	1615.7	1552.0	1196.6
32.5°	1407.1	1410.0	1406.7	1395.1	1392.7	1438.1	1579.7	1759.9	1722.1	1649.9	1238.3
35°	1537.6	1532.1	1521.9	1498.3	1475.9	1506.4	1633.8	1856.3	1841.7	1768.4	1295.7
37.5°	1677.4	1677.6	1665.0	1611.5	1580.6	1593.6	1708.4	1965.5	1986.3	1909.3	1369.2
40°	1789.5	1795.4	1803.3	1733.0	1692.9	1711.0	1803.3	2092.3	2157.3	2076.4	1464.9
42.5°	1867.8	1874.6	1896.8	1852.8	1811.1	1844.7	1914.9	2227.5	2349.2	2269.2	1577.1
45°	1950.7	1954.4	1970.1	1951.2	1924.5	2000.2	2040.8	2367.6	2552.3	2474.7	1702.5
47.5°	2038.0	2041.9	2058.0	2045.4	2031.4	2145.5	2172.1	2499.5	2746.9	2700.4	1836.4
50°	2145.7	2148.3	2163.6	2140.7	2145.1	2255.0	2289.5	2620.6	2950.8	2903.3	1970.8
52.5°	2292.7	2293.4	2314.6	2293.8	2273.3	2335.3	2390.5	2734.7	3110.7	3088.3	2105.2
55°	2407.9	2414.9	2484.3	2479.9	2468.1	2408.1	2474.9	2843.3	3253.4	3264.1	2247.8
57.5°	2334.4	2361.7	2502.1	2601.2	2697.6	2589.4	2589.0	2965.7	3386.0	3436.6	2404.6
60°	2044.5	2081.6	2288.6	2508.3	2809.9	2904.8	2825.8	3115.1	3519.9	3607.6	2601.2
62.5°	1460.1	1521.2	1801.7	2152.5	2655.9	3113.8	3307.9	3352.2	3702.1	3805.7	2856.6
65°	738.1	784.4	1019.5	1442.0	2121.9	2977.2	3831.8	3871.3	4018.6	4110.6	3249.9
67.5°	448.5	465.9	580.7	802.1	1300.9	2319.1	4002.9	4736.6	4631.1	4679.9	3810.7
70°	330.5	343.3	414.9	532.7	748.2	1360.9	3478.0	5354.2	5284.8	5279.3	4225.1
72°	257.4	266.8	330.0	430.4	547.1	816.5	2520.9	5126.2	5472.0	5444.5	4187.2
72.5°	244.1	252.4	310.0	405.1	517.0	740.1	2266.6	4972.4	5458.4	5446.0	4138.1
75°	192.2	198.1	229.5	313.2	404.6	419.9	1242.0	3853.4	4842.2	5043.5	3721.9
77.5°	159.0	159.9	176.5	227.9	315.4	296.9	610.1	2673.6	3467.4	3688.8	2636.5
80°	129.6	130.7	138.5	159.9	238.6	219.7	289.7	1537.4	1941.3	1943.7	1253.8
82.5°	103.2	103.4	112.1	116.9	171.4	157.1	166.0	721.8	848.3	816.0	450.7
85°	72.6	71.1	109.5	96.0	112.1	100.8	91.6	285.7	350.7	335.5	141.1
87.5°	24.2	25.1	48.6	62.2	65.4	57.1	40.8	109.5	132.4	131.3	44.7
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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CATALOG NUMBER: GLEON-SA1D-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	783.3	776.3	766.1	754.7	745.8	736.6	729.9	726.4	722.4	719.2	723.1
5°	791.6	778.5	756.7	735.3	719.6	705.6	695.6	690.4	685.6	682.3	682.7
7.5°	805.1	784.0	747.3	716.1	694.3	679.2	669.0	665.5	662.5	661.6	662.7
10°	819.5	788.3	734.9	693.4	668.6	656.1	651.5	653.9	656.1	658.1	660.3
12.5°	835.9	792.2	716.8	666.8	645.7	640.9	645.4	655.9	663.5	668.1	671.0
15°	857.2	795.7	695.8	640.2	626.0	631.5	647.0	665.1	678.4	686.9	688.2
17.5°	876.9	795.5	669.0	613.4	610.1	626.0	649.4	674.9	692.8	704.8	707.2
20°	897.2	789.6	637.8	587.2	594.0	620.1	650.5	681.2	702.8	716.8	720.0
22.5°	916.1	779.4	603.6	563.4	580.4	612.3	646.3	677.5	699.1	710.4	713.9
25°	929.0	761.5	568.9	543.4	568.4	602.7	632.8	657.9	674.0	679.7	680.6
27.5°	935.5	738.1	536.2	525.9	556.0	587.0	607.7	620.1	624.7	624.3	623.4
30°	936.4	707.4	508.0	511.7	541.6	563.9	573.7	571.3	565.4	555.4	556.2
32.5°	933.6	672.7	484.5	498.2	523.3	535.7	536.2	524.6	508.9	493.0	488.6
35°	934.5	638.7	463.7	482.9	501.0	506.5	501.5	484.5	463.1	442.6	438.2
37.5°	944.1	609.0	445.9	465.3	476.4	477.7	470.5	452.6	436.9	416.8	415.1
40°	967.0	587.9	428.8	445.4	451.7	452.4	442.1	429.5	430.8	420.1	419.9
42.5°	1008.2	578.7	413.8	424.7	428.6	429.9	422.1	414.0	425.3	418.4	416.0
45°	1061.4	580.9	401.1	404.4	411.6	417.7	412.9	403.1	407.5	377.1	367.1
47.5°	1122.9	594.8	391.1	387.0	399.4	411.0	403.5	388.7	373.2	343.1	337.4
50°	1194.9	616.4	381.9	369.7	386.1	401.8	394.4	373.2	349.9	335.3	333.3
52.5°	1269.9	642.8	372.8	350.7	369.3	394.8	391.1	369.7	340.9	326.5	323.9
55°	1355.0	669.4	361.2	328.7	351.2	391.5	389.6	357.1	334.2	326.1	324.1
57.5°	1460.8	699.8	346.0	305.8	334.2	379.8	373.7	349.4	327.2	321.1	320.4
60°	1598.7	744.5	323.9	281.4	313.4	361.7	360.3	338.3	316.1	311.7	310.8
62.5°	1805.4	818.4	293.6	257.0	290.3	330.9	342.9	323.3	304.3	304.1	304.5
65°	2126.1	929.7	260.7	235.6	267.0	304.9	322.6	307.8	292.3	296.7	297.3
67.5°	2497.8	1021.9	228.4	214.6	243.2	280.3	304.3	292.3	276.4	287.7	287.9
70°	2621.5	939.5	200.0	193.9	218.6	256.5	284.4	275.3	259.1	270.5	269.4
72°	2439.5	758.4	181.7	178.2	200.0	236.9	266.8	259.4	243.4	251.1	248.2
72.5°	2382.2	723.1	177.1	174.3	195.0	231.9	262.2	255.4	239.5	246.0	243.4
75°	2125.0	628.0	152.3	152.9	170.1	207.4	236.5	234.3	217.9	218.6	217.7
77.5°	1541.3	460.5	128.3	132.6	144.8	182.4	210.5	209.2	191.3	188.0	187.4
80°	715.2	234.9	104.5	106.4	119.1	152.5	179.5	177.8	163.4	159.2	156.8
82.5°	245.0	111.7	78.5	79.8	92.3	122.8	155.7	154.7	142.7	134.6	129.6
85°	87.5	55.6	55.0	53.7	65.9	96.6	135.7	129.8	112.1	95.5	95.1
87.5°	28.4	23.8	28.4	28.1	38.4	65.4	98.6	84.0	81.4	67.6	66.3
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

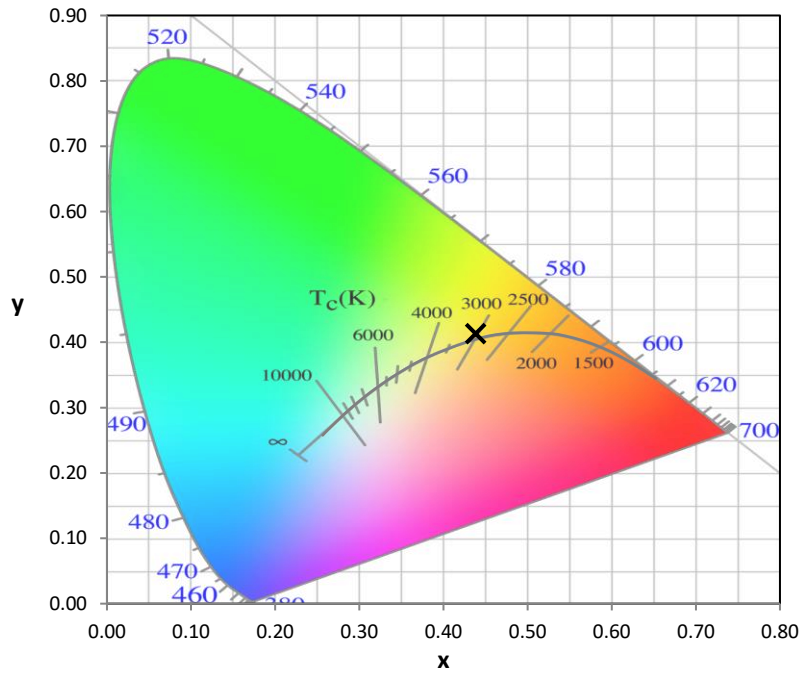
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

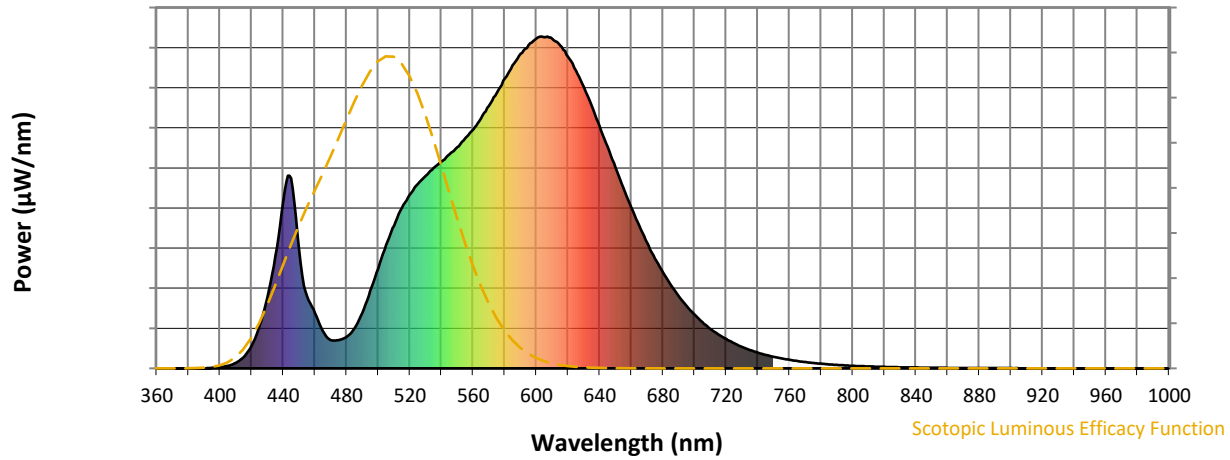


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Scotopic Flux vs. Wavelength



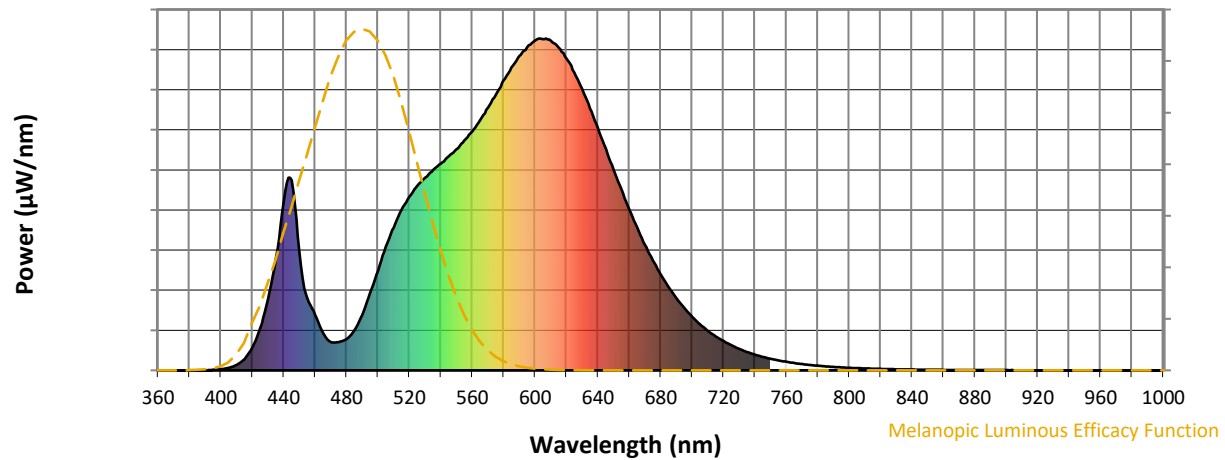
Scotopic Lumens: NR

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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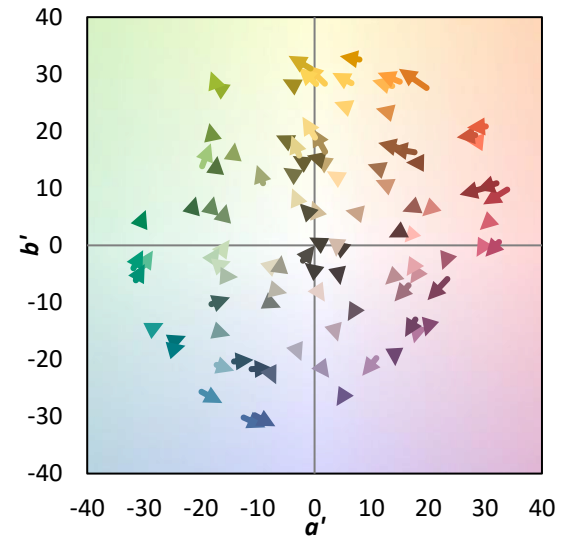
TM-30-18

Summary

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

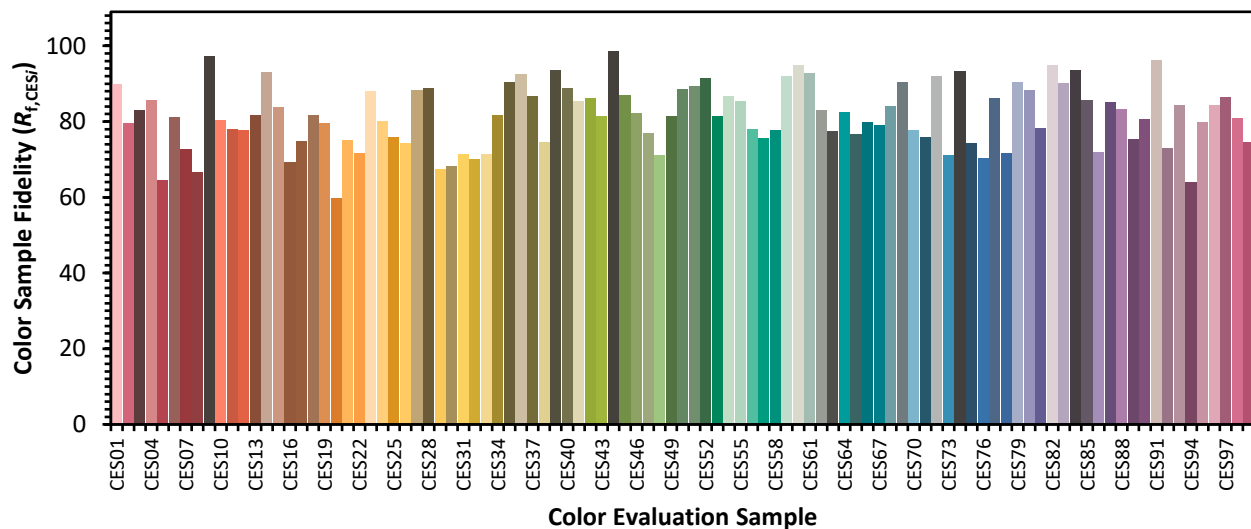


Color Vector Graphics

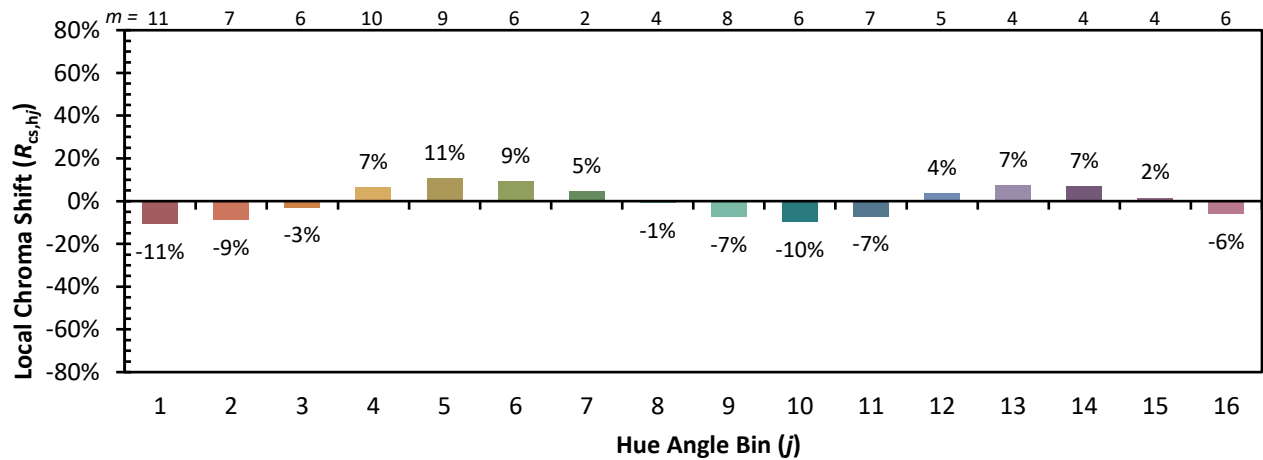


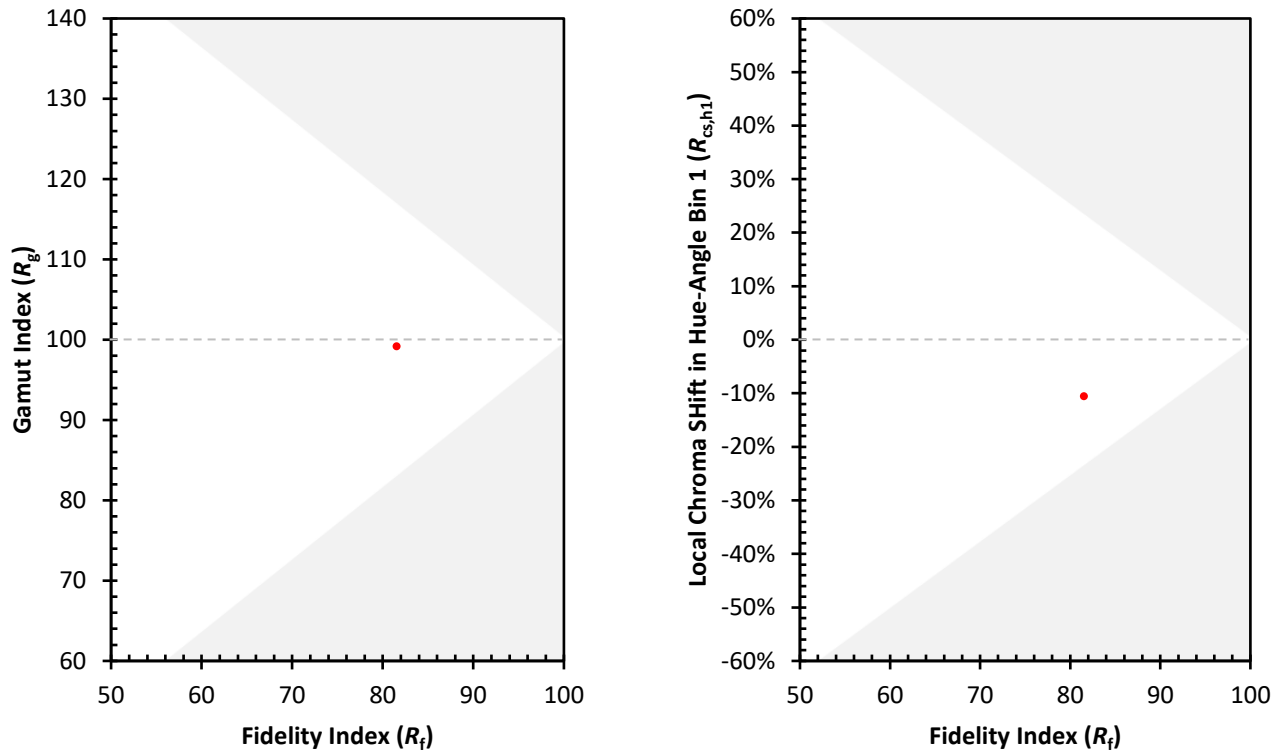
Individual Sample Fidelity Index ($R_{f,i}$)

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)