

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: P319525

Luminaire Tested: **GLEON-SA1C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-SA1C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5764 lumens
Efficiency: N/A
Efficacy: 97.7 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

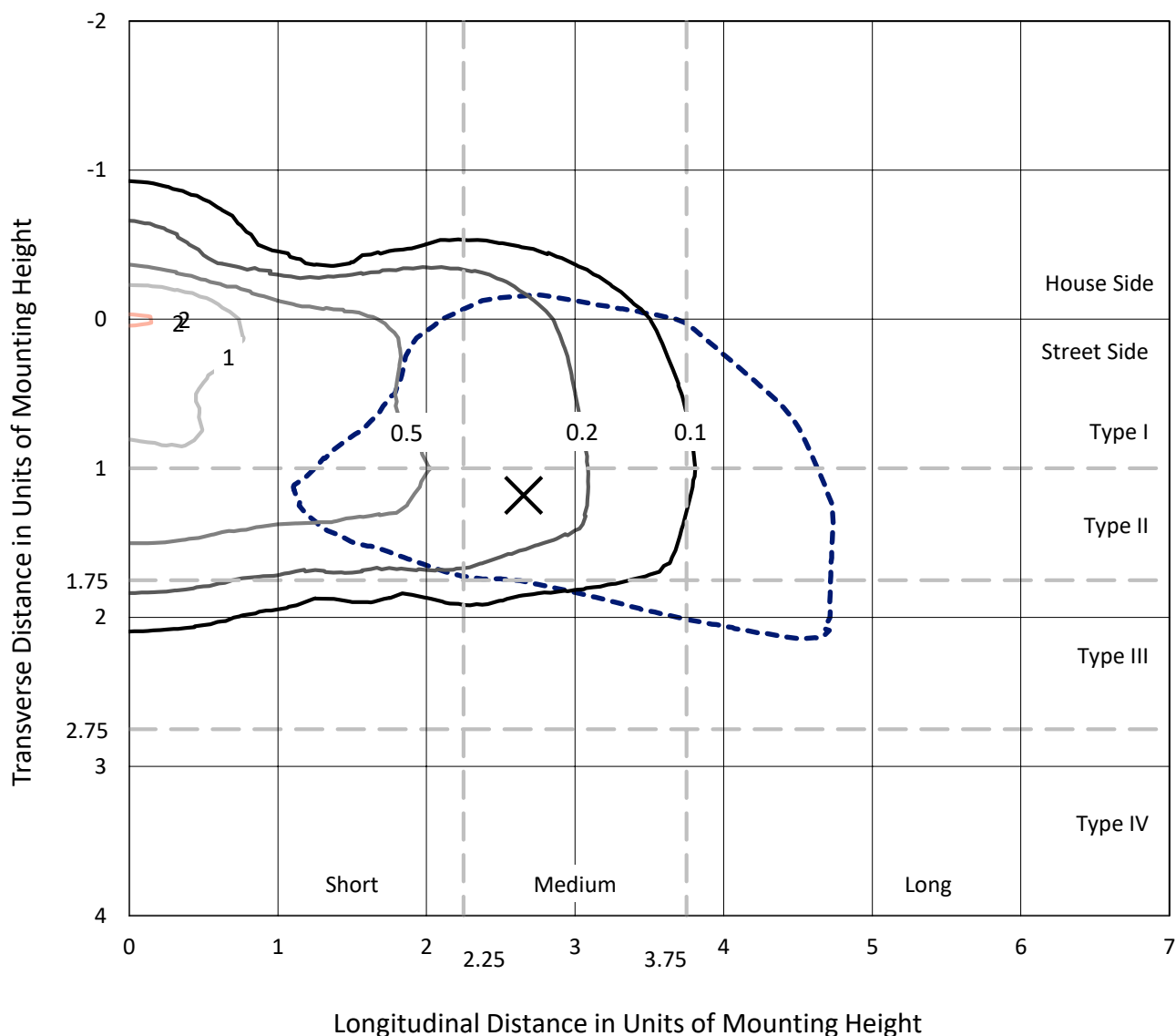
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319525
 CATALOG NUMBER: GLEON-SA1C-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

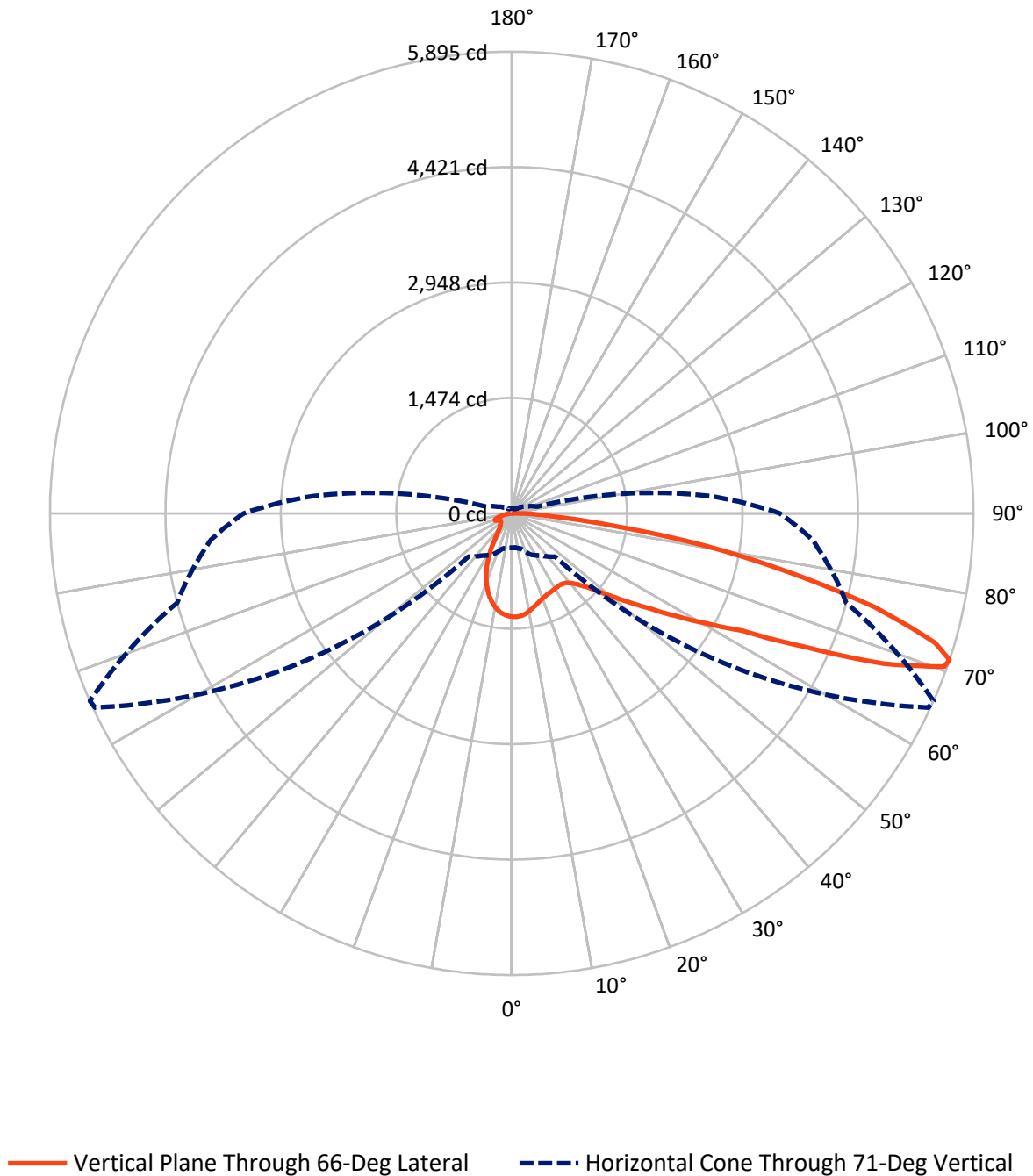
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P319525
CATALOG NUMBER: GLEON-SA1C-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319525

CATALOG NUMBER: GLEON-SA1C-830-U-SL2

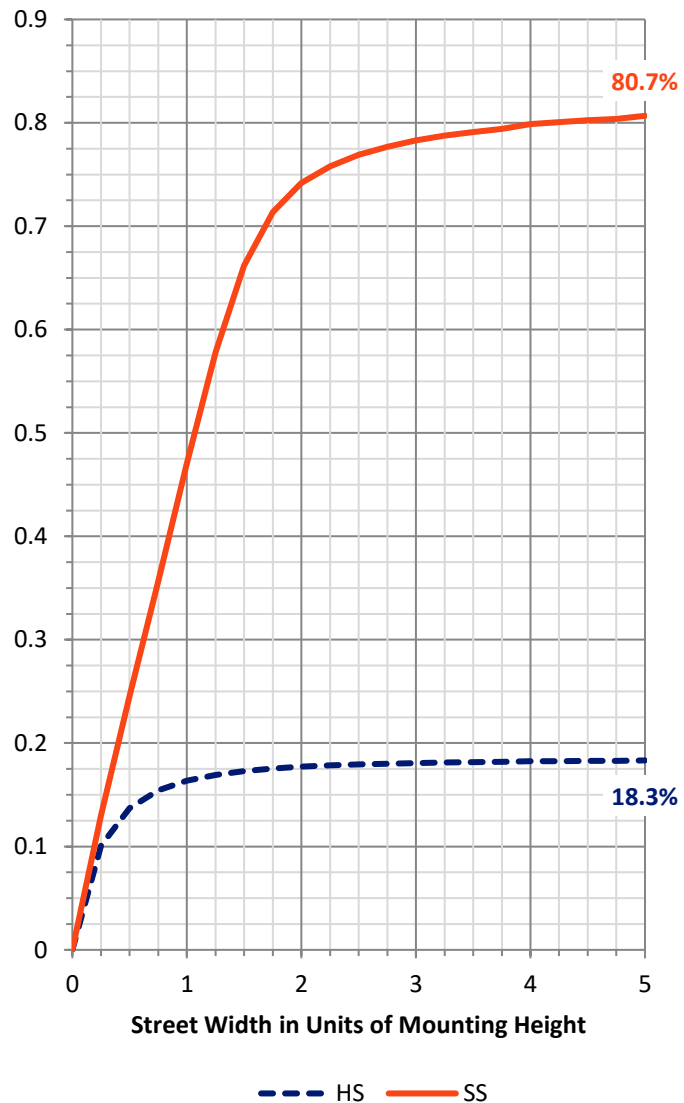
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1068.2	0.0	1068.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	4695.8	0.0	4695.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	5764.0	0.0	5764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	2.0
10°-20°	278.8	4.8
20°-30°	374.5	6.5
30°-40°	492.6	8.5
40°-50°	716.6	12.4
50°-60°	1119.4	19.4
60°-70°	1402.2	24.3
70°-80°	1069.6	18.6
80°-90°	194.2	3.4
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°	5764.0	100.0
0°-180°	5764.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319525

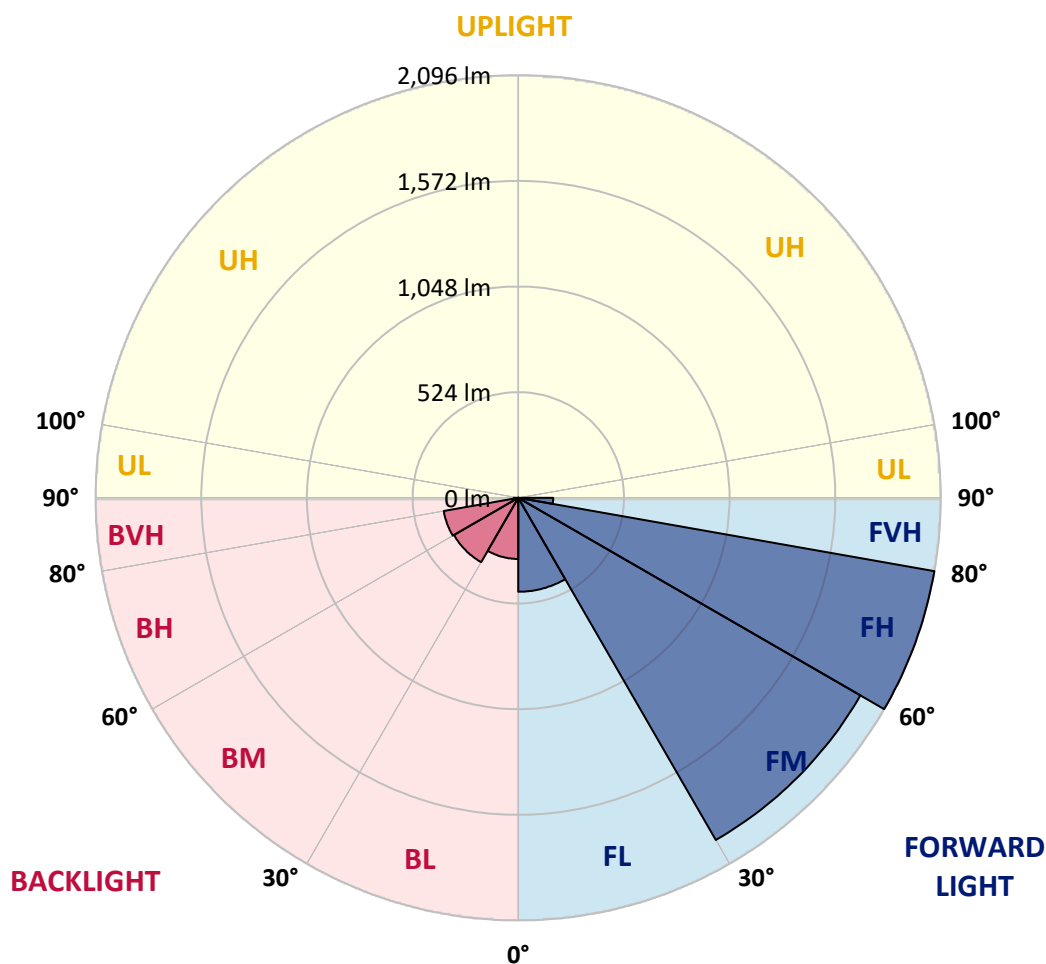
CATALOG NUMBER: GLEON-SA1C-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.1	8.1			
FM	(30°-60°)	1960.0	34.0			
FH	(60°-80°)	2096.4	36.4			G2/5000
FVH	(80°-90°)	173.2	3.0			G2/225
BL	(0°-30°)	303.3	5.3	B1/500		
BM	(30°-60°)	368.5	6.4	B1/1000		
BH	(60°-80°)	375.3	6.5	B1/500		G1/500
BVH	(80°-90°)	21.0	0.4			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





REPORT NUMBER: P319525

CATALOG NUMBER: GLEON-SA1C-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4
2.5°	1295.9	1294.0	1299.9	1306.1	1308.5	1312.5	1318.4	1321.8	1321.6	1322.2	1320.2
5°	1210.0	1207.4	1219.3	1229.1	1247.8	1268.9	1294.5	1312.9	1313.3	1323.6	1326.4
7.5°	1128.6	1126.8	1140.5	1156.2	1177.9	1210.2	1251.8	1291.2	1293.6	1321.6	1331.4
10°	1063.3	1062.9	1076.2	1093.4	1118.6	1154.6	1202.4	1260.1	1263.7	1312.1	1332.2
12.5°	1012.4	1013.2	1024.7	1044.2	1070.9	1108.5	1160.2	1225.3	1231.1	1296.9	1327.6
15°	974.7	977.9	987.3	1007.0	1033.3	1071.5	1124.6	1193.1	1201.8	1280.0	1325.0
17.5°	953.3	956.8	963.4	979.7	1004.4	1041.2	1091.6	1166.6	1174.5	1267.1	1325.2
20°	946.9	949.9	953.6	963.6	984.5	1017.9	1065.5	1142.7	1151.3	1256.7	1327.2
22.5°	959.4	961.6	962.0	961.2	973.9	1001.2	1046.6	1125.2	1134.3	1250.0	1328.6
25°	986.3	989.3	987.1	979.7	975.5	992.3	1036.8	1113.7	1122.8	1245.0	1325.8
27.5°	1026.7	1027.1	1025.3	1015.7	996.0	993.3	1033.8	1106.9	1115.6	1239.2	1320.0
30°	1081.6	1084.2	1081.0	1068.1	1035.8	1009.2	1037.4	1100.3	1108.3	1231.9	1310.7
32.5°	1145.9	1152.3	1152.1	1138.5	1092.4	1044.8	1052.2	1096.3	1102.5	1224.1	1299.3
35°	1212.6	1221.3	1237.6	1231.9	1174.7	1101.1	1080.4	1102.7	1106.9	1223.1	1291.4
37.5°	1281.8	1290.6	1324.2	1339.7	1272.9	1181.7	1125.0	1125.2	1127.2	1235.2	1290.8
40°	1354.3	1363.6	1414.2	1454.6	1400.0	1283.8	1196.8	1172.2	1170.0	1265.1	1302.5
42.5°	1455.7	1464.1	1524.8	1576.3	1541.1	1414.6	1296.1	1244.6	1240.0	1323.6	1340.1
45°	1584.1	1591.3	1655.7	1710.9	1692.8	1563.8	1420.9	1344.3	1343.5	1421.1	1416.3
47.5°	1736.7	1742.3	1800.2	1853.6	1860.1	1735.6	1577.7	1498.1	1485.2	1554.9	1534.4
50°	1895.8	1901.9	1941.3	1998.6	2047.4	1965.4	1779.5	1686.6	1669.3	1731.4	1701.5
52.5°	2001.0	2009.2	2043.4	2116.1	2257.9	2217.4	2018.1	1915.1	1888.8	1945.3	1922.4
55°	1954.1	1972.4	2024.7	2141.1	2426.3	2602.2	2312.5	2181.5	2151.9	2198.8	2185.3
57.5°	1740.5	1765.6	1837.0	2016.8	2450.0	2941.3	2757.5	2495.4	2474.5	2460.9	2467.1
60°	1350.3	1374.4	1462.9	1697.1	2285.0	3188.9	3427.1	2882.2	2852.0	2724.0	2729.6
62.5°	955.6	943.5	1004.2	1175.5	1856.7	3218.0	4189.1	3399.7	3300.2	3001.8	2977.4
65°	728.8	726.0	753.2	807.8	1124.6	2870.3	4643.1	4269.3	4113.9	3328.6	3270.9
67.5°	598.8	593.8	620.7	700.1	724.2	1851.8	4653.0	5278.3	5125.7	3735.4	3610.4
70°	492.3	486.8	511.8	614.3	669.3	939.1	3916.1	5869.2	5861.0	4250.4	3866.7
71°	441.4	437.4	467.5	581.3	657.5	782.7	3381.2	5870.7	5895.2	4424.8	3851.6
72.5°	359.4	360.8	392.6	517.4	648.8	691.2	2485.0	5597.1	5648.9	4590.9	3714.1
75°	238.8	240.0	281.8	398.0	629.1	676.2	1365.8	4696.6	4791.7	4491.4	3389.1
77.5°	160.4	160.0	188.5	273.0	548.1	676.2	800.8	3512.7	3617.2	3573.8	2612.8
80°	110.4	109.7	129.8	188.5	414.9	684.4	619.1	2461.7	2493.4	1930.0	1061.9
82.5°	67.7	68.3	84.8	133.1	282.4	615.9	584.5	1342.3	1307.9	541.3	265.3
85°	38.8	38.6	54.1	90.2	181.3	519.8	570.0	577.7	530.0	163.0	95.9
87.5°	13.9	14.9	29.1	50.0	103.9	362.0	483.6	300.5	270.9	73.6	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319525

CATALOG NUMBER: GLEON-SA1C-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4
2.5°	1318.8	1320.0	1318.6	1310.7	1303.9	1293.0	1286.8	1278.2	1275.6	1274.4	1277.6
5°	1323.8	1324.2	1312.5	1291.6	1268.1	1240.4	1220.5	1196.0	1184.5	1179.5	1182.7
7.5°	1328.4	1326.6	1300.9	1260.9	1217.5	1169.4	1126.6	1087.4	1064.5	1055.1	1055.9
10°	1329.0	1321.4	1280.2	1218.3	1151.1	1080.4	1014.7	954.2	916.0	891.2	898.7
12.5°	1322.8	1310.1	1249.8	1163.2	1069.9	973.5	884.8	794.0	739.5	714.2	715.0
15°	1318.0	1294.9	1212.4	1098.3	973.0	845.4	724.2	617.5	559.4	533.5	521.4
17.5°	1314.1	1278.6	1169.0	1025.3	858.5	696.7	551.1	455.9	424.1	416.5	413.3
20°	1308.5	1261.3	1120.6	940.7	728.2	530.4	402.4	355.4	355.6	364.4	365.6
22.5°	1300.7	1241.6	1069.1	845.8	588.3	386.3	315.4	301.9	315.6	332.3	335.3
25°	1289.2	1218.3	1011.8	740.9	448.6	296.9	269.5	268.9	285.6	303.1	305.7
27.5°	1272.9	1187.9	948.1	628.3	330.6	252.3	241.4	245.6	257.9	270.7	271.6
30°	1251.0	1152.5	877.8	509.5	259.1	224.7	223.5	227.3	234.8	243.8	244.6
32.5°	1226.9	1116.4	802.8	394.4	221.9	209.8	210.9	212.7	216.3	219.9	220.7
35°	1205.0	1079.6	726.0	299.7	204.2	200.0	199.2	198.8	199.2	198.0	198.2
37.5°	1190.9	1049.2	646.0	238.6	194.0	191.4	189.1	186.1	182.7	180.7	181.1
40°	1185.7	1026.5	565.0	206.2	185.7	183.9	179.3	172.9	169.0	167.8	167.8
42.5°	1199.6	1014.7	486.8	189.9	178.7	175.7	168.2	160.8	157.8	157.6	157.4
45°	1242.2	1019.5	412.3	180.9	172.3	166.6	156.6	150.5	148.5	148.9	148.7
47.5°	1318.6	1049.6	348.7	174.9	166.0	158.4	147.3	142.3	139.9	139.9	140.1
50°	1448.6	1119.8	297.9	170.0	160.6	150.8	140.5	134.3	131.1	130.9	130.9
52.5°	1637.8	1245.6	266.3	165.8	154.6	144.1	133.7	126.0	122.2	121.4	121.0
55°	1875.1	1425.9	257.5	163.0	146.7	136.7	125.6	117.8	113.6	111.8	111.6
57.5°	2140.3	1645.2	274.8	159.6	138.5	128.0	116.6	109.3	104.9	102.7	102.5
60°	2408.8	1884.6	345.5	154.8	131.7	118.4	107.5	100.7	96.3	93.9	93.5
62.5°	2677.7	2137.0	489.8	154.4	127.0	109.3	98.1	92.3	88.2	85.6	85.0
65°	2980.9	2413.2	653.7	165.0	125.4	100.9	88.6	84.0	80.4	78.0	77.8
67.5°	3329.2	2725.0	638.0	186.7	130.7	93.3	79.6	76.0	73.4	71.4	71.2
70°	3492.6	2676.3	396.6	202.0	138.3	86.0	71.0	68.5	66.5	65.1	64.5
71°	3424.1	2541.1	332.5	200.2	137.5	82.8	67.7	65.7	63.7	62.5	61.9
72.5°	3237.5	2317.5	277.4	186.3	128.6	77.0	63.3	61.3	59.5	58.1	57.7
75°	2905.1	2069.7	222.1	148.9	102.5	65.1	55.5	53.3	51.9	51.1	50.3
77.5°	2135.6	1477.0	171.7	117.6	75.4	53.1	47.4	45.8	44.4	43.2	42.6
80°	818.1	572.1	115.6	87.8	55.3	42.0	38.2	37.4	36.0	35.2	35.2
82.5°	220.3	170.9	61.7	53.1	37.0	30.6	29.3	28.9	27.7	26.1	26.3
85°	89.2	75.4	34.6	29.3	22.7	18.1	19.7	19.9	18.5	16.5	16.7
87.5°	39.2	32.0	19.3	12.9	10.0	7.0	9.0	9.0	8.2	6.8	6.2
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
 R_f: 81.5
 R_g: 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

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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

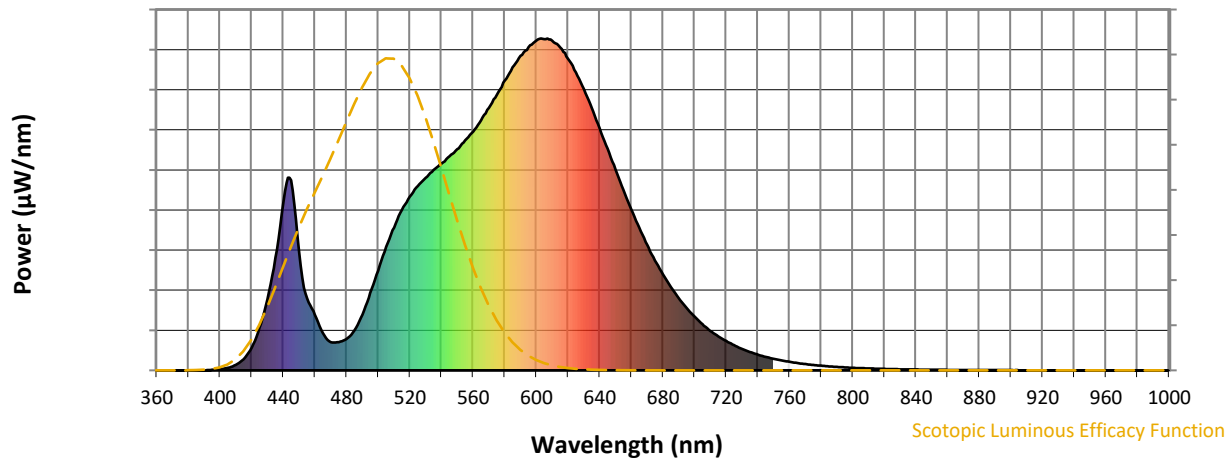


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

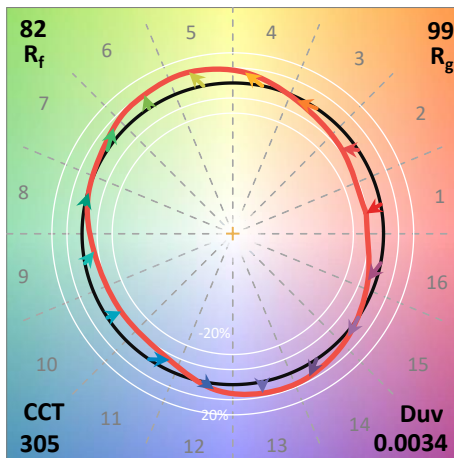
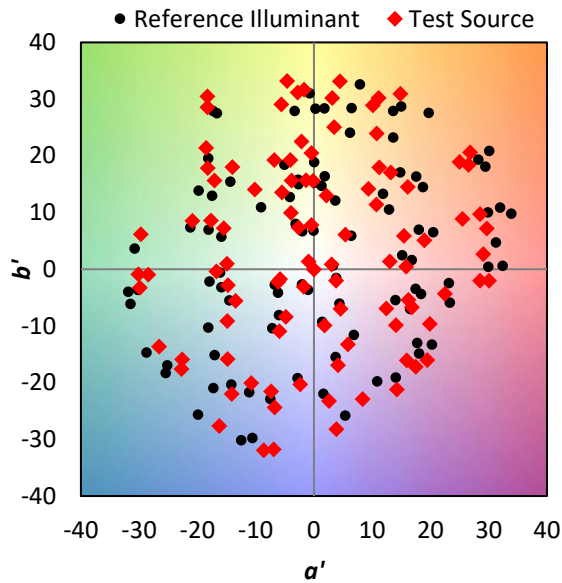
TM-30-18

Summary

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



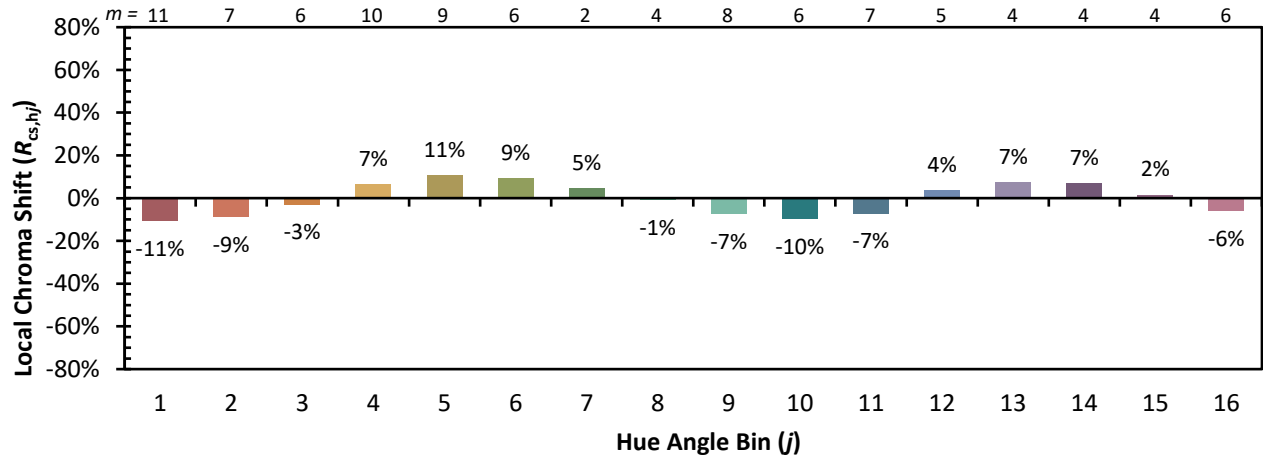
Color Vector Graphics

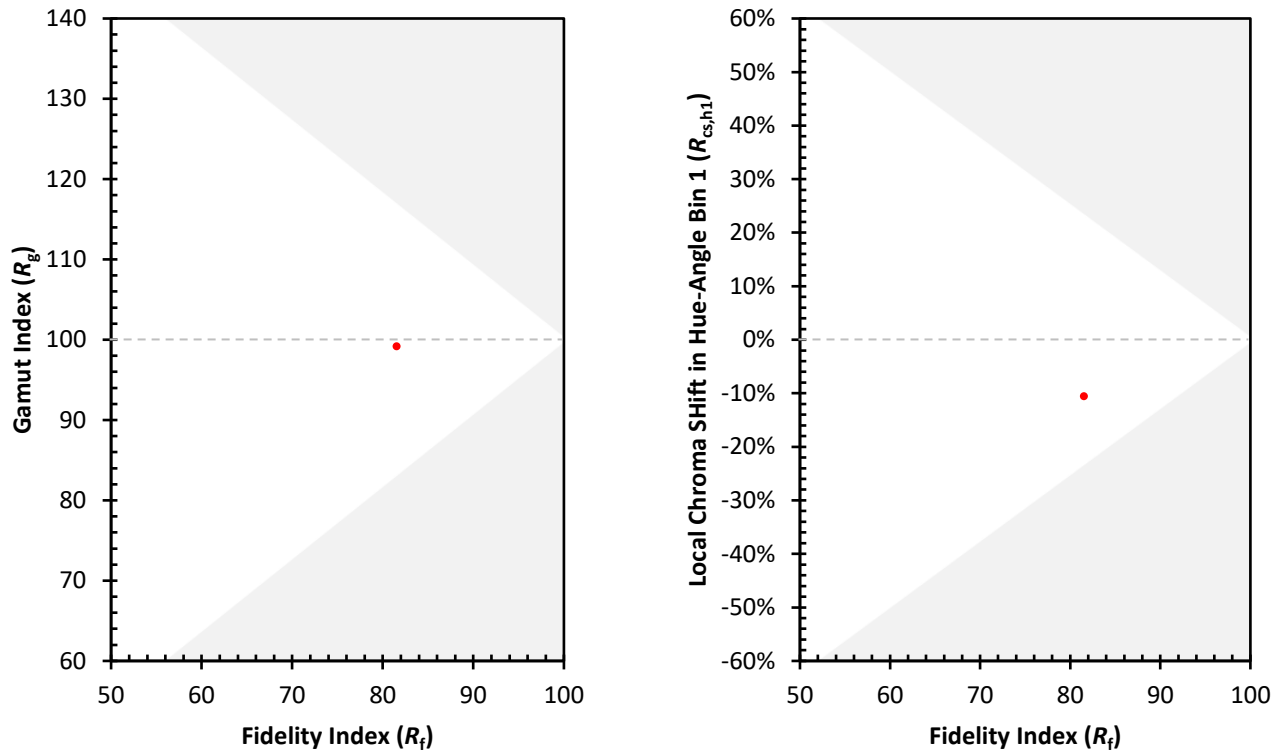


Individual Sample Fidelity Index ($R_{f,i}$)

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)