

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643423

Luminaire Tested: GWS-SA6E-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6E-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD,
BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20799.1 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



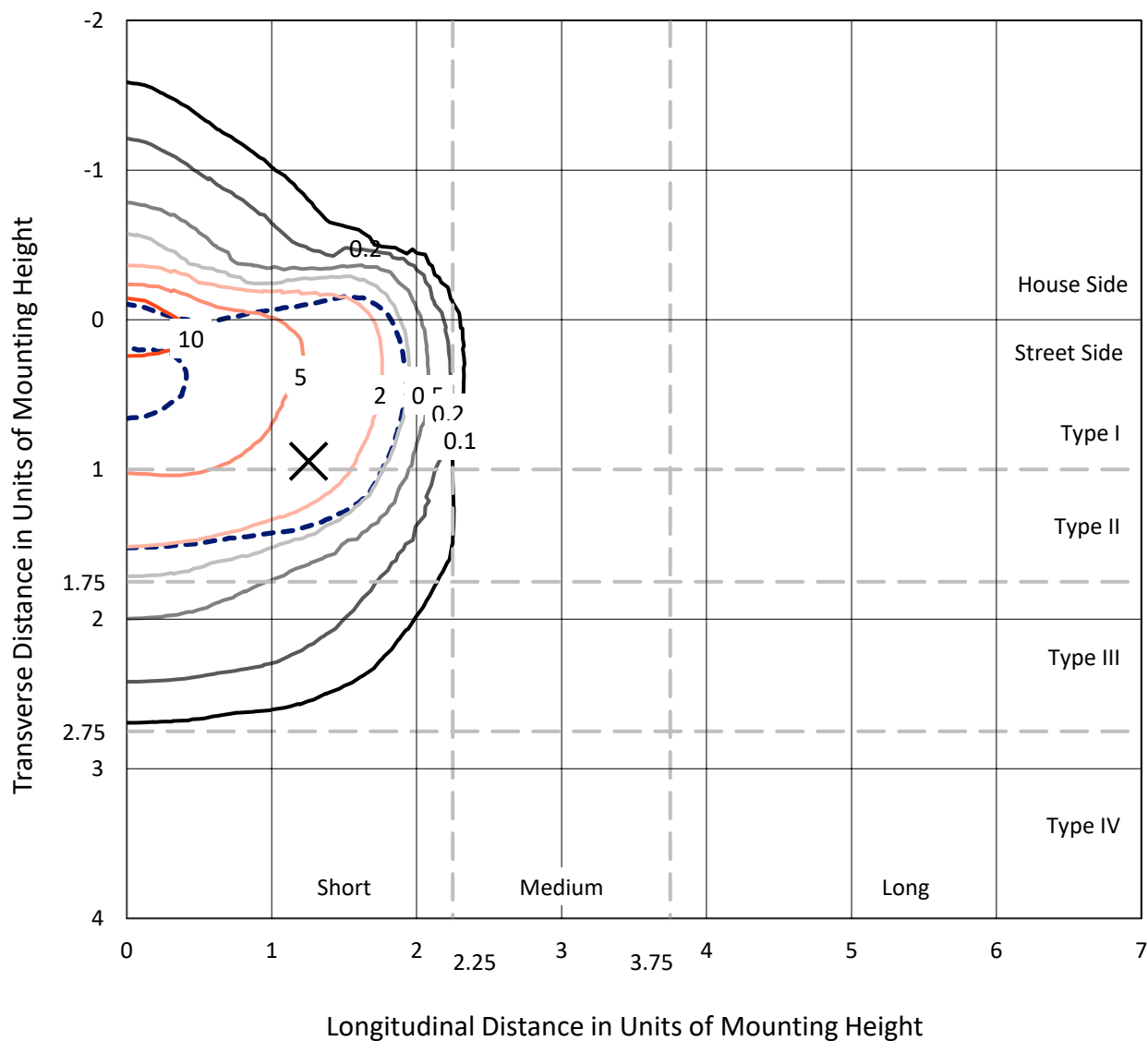
REPORT NUMBER: P643423

CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

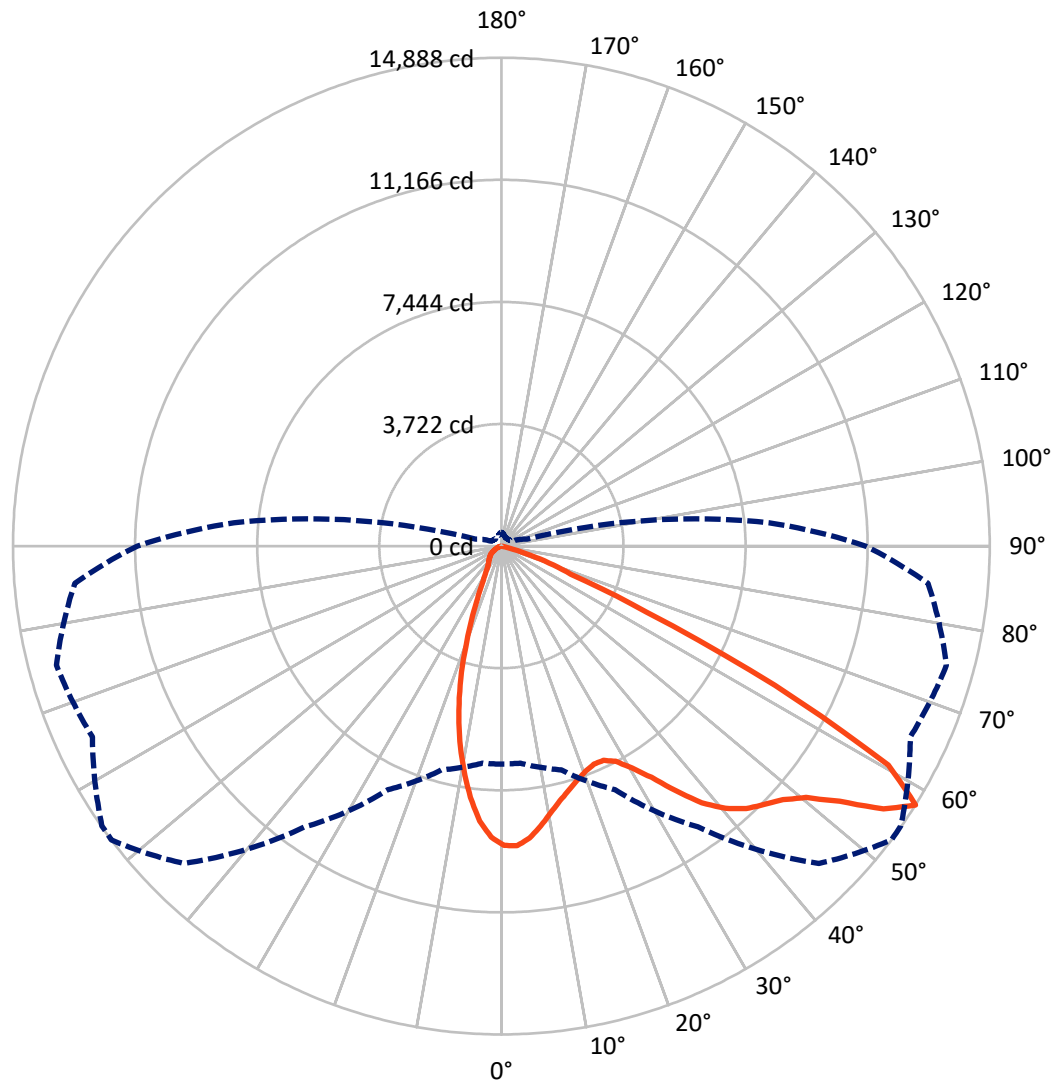


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

REPORT NUMBER: P643423

CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643423

CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-GRSBK

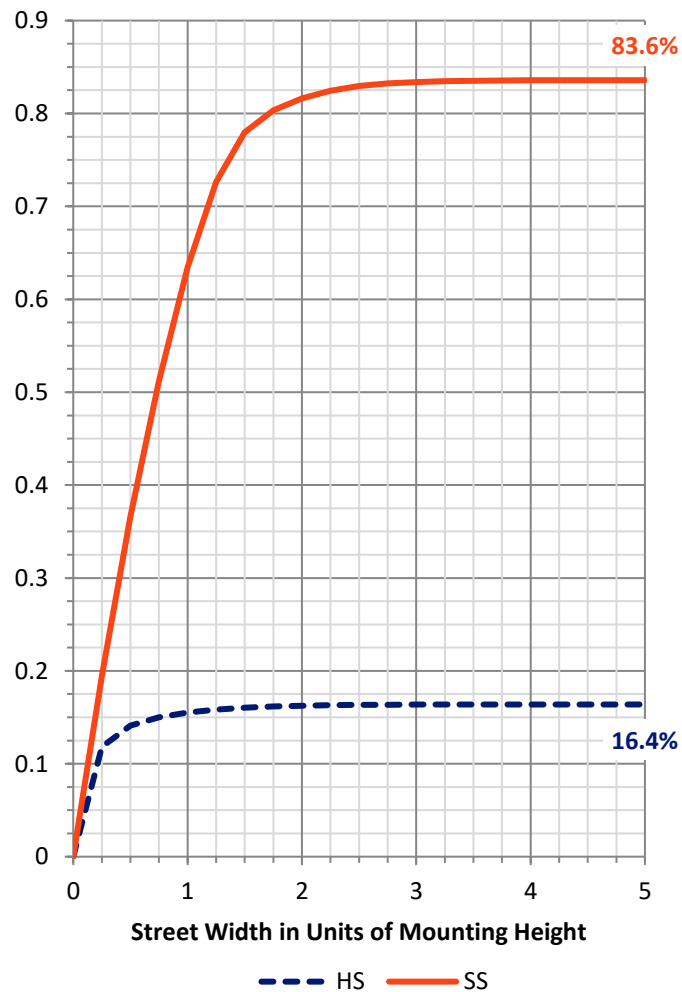
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.7	0.0	3435.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17363.4	0.0	17363.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	20799.1	0.0	20799.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.6	3.8
10°-20°	1713.7	8.2
20°-30°	2232.5	10.7
30°-40°	3238.3	15.6
40°-50°	4672.6	22.5
50°-60°	5651.1	27.2
60°-70°	2303.2	11.1
70°-80°	206.9	1.0
80°-90°	0.0	0.0
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°	20799.1	100.0
0°-180°	20799.1	100.0

Coefficient of Utilization



REPORT NUMBER: P643423

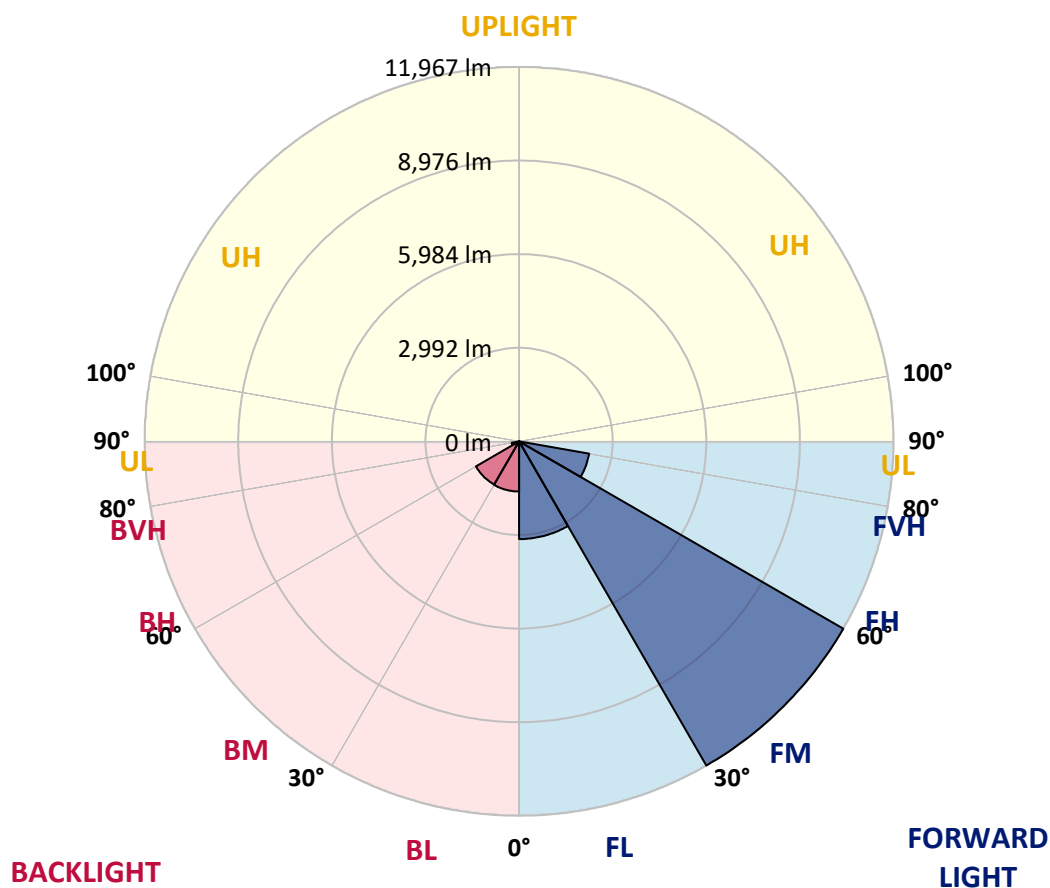
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3123.3	15.0			
FM	(30°-60°)	11967.4	57.5			
FH	(60°-80°)	2272.6	10.9			G2/5000
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	1603.5	7.7	B3/2500		
BM	(30°-60°)	1594.7	7.7	B2/2500		
BH	(60°-80°)	237.5	1.1	B1/500		G1/500
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P643423

CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7
2.5°	8996.2	9016.6	9052.3	9098.2	9128.8	9144.1	9144.1	9187.4	9159.4	9136.4	9110.9
5°	8611.3	8631.7	8680.1	8754.0	8828.0	8881.5	8942.7	8988.6	9006.4	9006.4	8963.1
7.5°	8068.3	8096.3	8126.9	8228.9	8389.5	8509.3	8613.8	8680.1	8777.0	8807.6	8746.4
10°	7484.5	7512.6	7581.4	7721.6	7905.1	8083.6	8262.0	8346.2	8511.9	8598.5	8529.7
12.5°	6990.0	7002.7	7094.5	7262.7	7497.3	7742.0	7958.7	8045.3	8279.9	8409.9	8328.3
15°	6582.1	6589.7	6681.5	6867.6	7137.8	7438.6	7711.4	7800.6	8088.7	8285.0	8162.6
17.5°	6273.6	6276.2	6355.2	6556.6	6839.6	7173.5	7497.3	7606.9	7979.1	8216.1	8032.6
20°	6118.1	6110.5	6166.6	6342.5	6610.1	6944.1	7326.5	7461.6	7917.9	8206.0	7933.2
22.5°	6120.7	6102.8	6125.8	6250.7	6477.6	6791.1	7219.4	7372.4	7923.0	8249.3	7849.1
25°	6266.0	6240.5	6245.6	6311.9	6472.5	6758.0	7234.7	7397.8	8025.0	8394.6	7818.5
27.5°	6510.7	6482.7	6482.7	6515.8	6602.5	6862.5	7425.9	7612.0	8297.7	8677.6	7882.2
30°	6826.8	6798.8	6788.6	6821.7	6893.1	7132.7	7851.6	8045.3	8764.2	9141.5	8086.1
32.5°	7188.8	7155.7	7173.5	7219.4	7288.2	7619.6	8399.7	8657.2	9348.0	9766.1	8453.2
35°	7571.2	7543.2	7624.7	7724.1	7831.2	8295.2	9156.8	9381.1	10064.3	10543.6	9014.1
37.5°	7935.7	7923.0	8093.8	8302.8	8524.6	9105.8	9926.7	10100.0	10678.7	11389.9	9699.8
40°	8300.3	8297.7	8590.9	8958.0	9312.3	9913.9	10510.4	10653.2	11053.4	12047.6	10357.5
42.5°	8708.1	8708.1	9113.5	9602.9	10074.5	10597.1	10938.7	11002.4	11221.7	12427.5	10852.0
45°	9098.2	9121.1	9590.2	10158.7	10716.9	11129.9	11234.4	11239.5	11290.5	12651.8	11262.5
47.5°	9406.6	9427.0	9987.9	10643.0	11244.6	11535.2	11550.5	11527.6	11471.5	12865.9	11578.6
50°	9656.5	9687.0	10273.4	10966.8	11606.6	11925.3	12042.5	12019.6	11876.8	13095.4	11800.4
52.5°	9778.8	9822.2	10372.8	11127.4	12009.4	12593.2	12919.5	12973.0	12483.5	13222.8	12011.9
55°	8799.9	8863.7	9370.9	10403.4	12233.7	13625.6	14138.0	14127.8	13141.2	13602.7	12526.9
57.5°	6645.8	6640.7	7061.3	8190.7	10449.3	13684.2	14887.5	14867.1	13755.6	14043.7	13054.6
60°	4524.9	4494.3	4606.4	5152.0	7306.1	11147.8	13549.1	13824.4	13319.7	12973.0	11084.0
62.5°	3724.4	3696.4	3660.7	3510.3	4196.0	6944.1	9360.7	9778.8	9712.5	9016.6	6951.7
65°	3048.9	3071.8	3171.2	3107.5	2918.9	3561.3	4858.8	5106.1	4667.6	3928.4	2429.4
67.5°	2248.4	2258.6	2388.6	2725.1	2623.2	2370.8	2286.7	2327.4	1363.8	627.1	405.3
70°	1328.1	1335.8	1455.6	1906.8	2128.6	1820.1	1544.8	1521.9	540.4	168.2	183.5
72.5°	752.0	736.7	759.7	907.5	1159.9	966.2	795.4	724.0	163.2	94.3	94.3
75°	356.9	346.7	298.3	280.4	254.9	163.2	102.0	86.7	40.8	38.2	38.2
77.5°	2.5	7.6	5.1	7.6	7.6	5.1	2.5	2.5	7.6	7.6	10.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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

REPORT NUMBER: P643423

CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7
2.5°	9065.0	8988.6	8970.7	8965.6	8894.2	8817.8	8738.7	8708.1	8662.3	8634.2	8657.2
5°	8894.2	8784.6	8687.8	8598.5	8440.5	8267.1	8116.7	8019.9	7928.1	7866.9	7882.2
7.5°	8652.1	8509.3	8287.5	8060.6	7770.0	7510.0	7219.4	7041.0	6875.3	6783.5	6826.8
10°	8394.6	8206.0	7851.6	7466.7	7010.4	6602.5	6187.0	5847.9	5651.6	5465.5	5485.9
12.5°	8142.2	7892.4	7362.2	6778.4	6202.3	5600.6	4973.5	4504.5	4183.3	3951.3	3915.6
15°	7907.7	7586.5	6885.5	6115.6	5330.4	4530.0	3729.5	3059.1	2686.9	2457.5	2442.2
17.5°	7698.7	7301.0	6390.9	5422.2	4438.2	3413.4	2493.1	1990.9	1776.8	1677.4	1667.2
20°	7497.3	7012.9	5886.2	4718.6	3464.4	2396.3	1720.7	1488.7	1419.9	1379.1	1384.2
22.5°	7303.5	6699.4	5355.9	3938.6	2597.7	1682.5	1333.2	1244.0	1236.4	1241.5	1244.0
25°	7140.4	6411.3	4810.4	3186.5	1853.3	1282.3	1114.0	1088.5	1111.5	1144.6	1149.7
27.5°	7056.3	6176.8	4277.6	2429.4	1340.9	1042.6	966.2	976.4	1017.1	1052.8	1057.9
30°	7079.2	6000.9	3727.0	1761.5	1032.4	879.5	854.0	874.4	915.2	948.3	953.4
32.5°	7242.3	5911.6	3163.6	1282.3	848.9	767.3	757.1	772.4	808.1	833.6	836.1
35°	7566.1	5932.0	2628.2	981.5	729.1	683.2	680.6	690.8	708.7	726.5	729.1
37.5°	8042.8	6097.7	2100.6	815.8	660.2	627.1	616.9	616.9	629.7	637.3	642.4
40°	8555.2	6347.6	1682.5	721.4	611.8	576.1	555.7	548.1	558.3	568.5	571.0
42.5°	8978.4	6597.4	1366.4	655.2	573.6	525.1	499.6	494.5	507.3	525.1	530.2
45°	9302.1	6791.1	1139.5	601.6	530.2	476.7	448.7	448.7	471.6	502.2	507.3
47.5°	9597.8	6946.6	971.3	553.2	489.5	433.4	405.3	410.4	448.7	489.5	497.1
50°	9799.2	7071.5	846.3	509.8	456.3	397.7	372.2	382.4	428.3	476.7	484.4
52.5°	10015.9	7224.5	764.8	471.6	425.7	369.6	346.7	354.3	405.3	458.9	469.1
55°	10615.0	7736.9	762.2	420.6	372.2	331.4	321.2	323.8	374.7	435.9	448.7
57.5°	11104.4	8188.1	813.2	354.3	311.0	290.6	285.5	288.1	333.9	402.8	418.1
60°	9187.4	6362.9	673.0	293.2	260.0	254.9	247.3	252.4	295.7	356.9	369.6
62.5°	5437.5	3637.7	321.2	224.3	221.8	216.7	209.0	219.2	260.0	313.6	321.2
65°	1858.4	1078.3	203.9	183.5	188.6	181.0	173.3	183.5	219.2	249.8	252.4
67.5°	356.9	285.5	163.2	153.0	155.5	140.2	137.7	147.9	168.2	173.3	170.8
70°	186.1	165.7	124.9	124.9	119.8	99.4	99.4	109.6	109.6	102.0	99.4
72.5°	96.9	91.8	81.6	91.8	76.5	61.2	61.2	66.3	61.2	51.0	51.0
75°	38.2	38.2	35.7	45.9	33.1	28.0	25.5	30.6	22.9	17.8	17.8
77.5°	10.2	10.2	10.2	12.7	7.6	7.6	5.1	5.1	2.5	0.0	0.0
80°	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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

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 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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



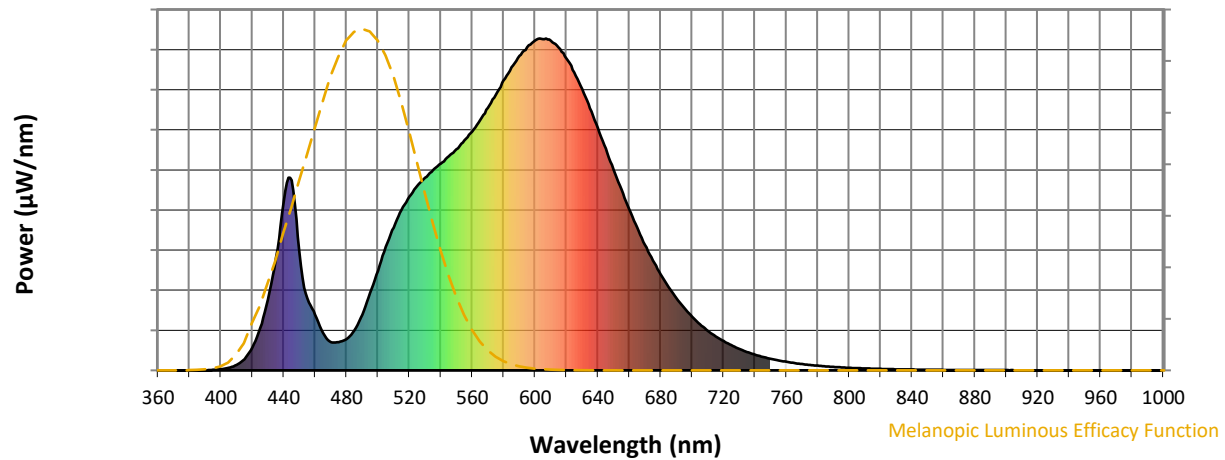
Scotopic Lumens: NR

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

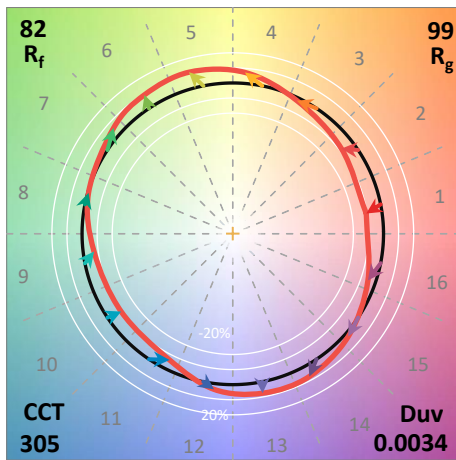
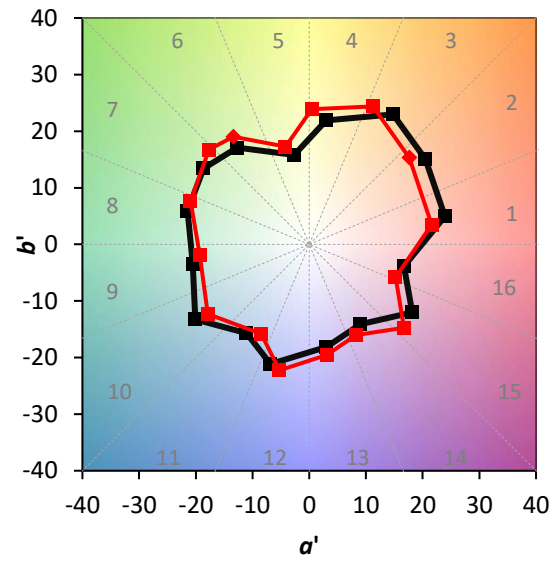
TM-30-18

Summary

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

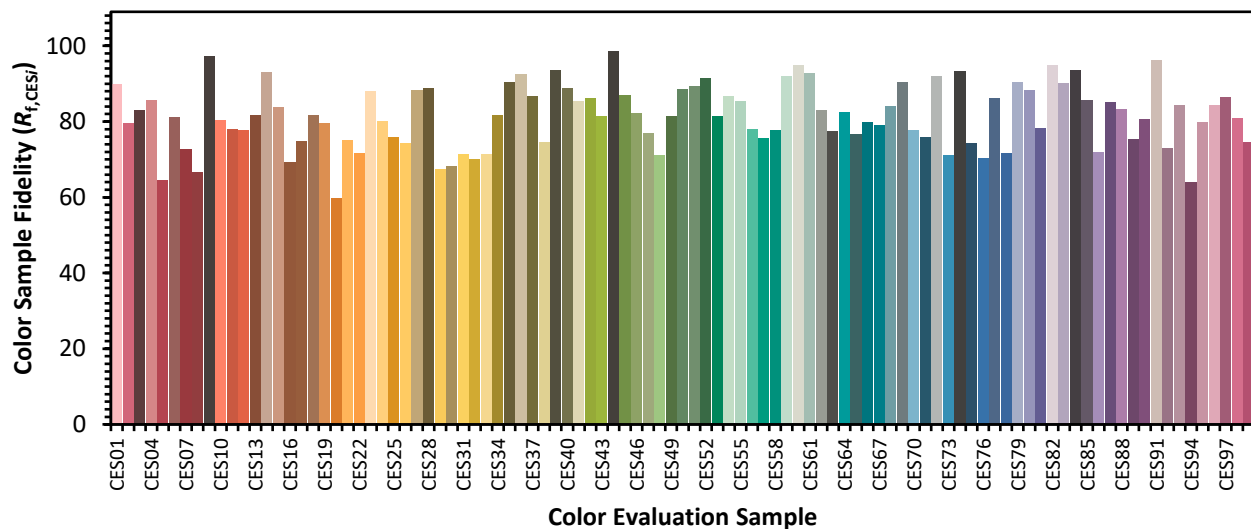


Color Vector Graphics

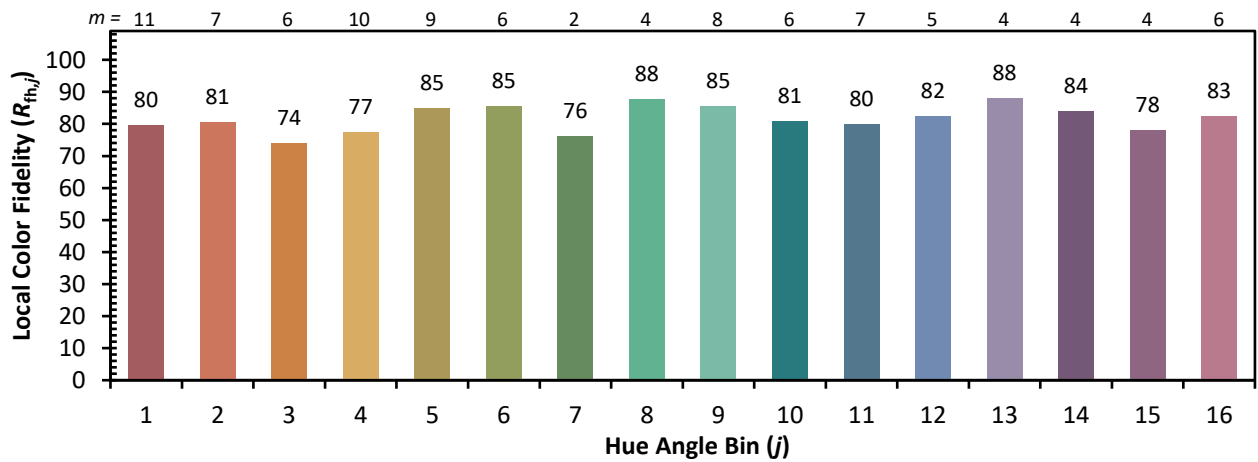
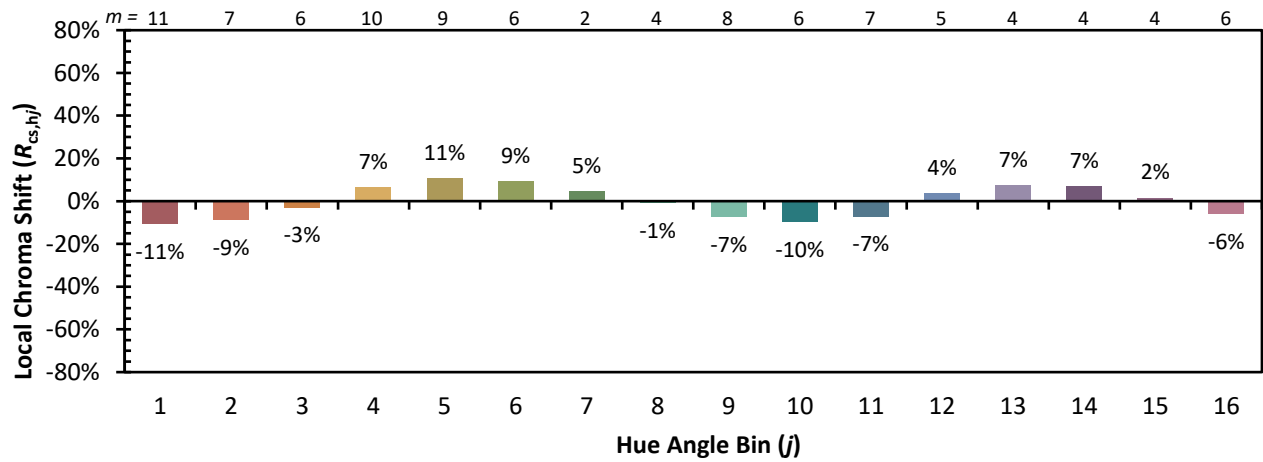


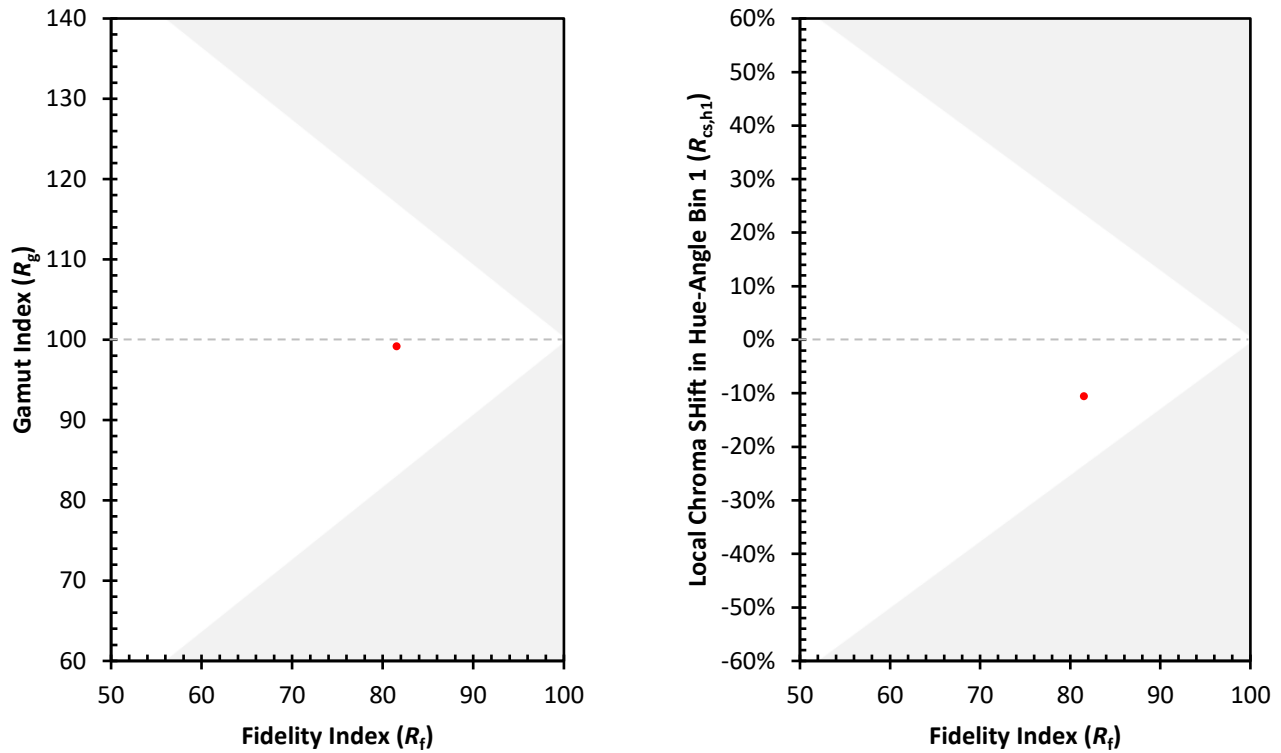
Individual Sample Fidelity Index ($R_{f,i}$)

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)