

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: P323366

Luminaire Tested: **GLEON-SA2C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9525 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

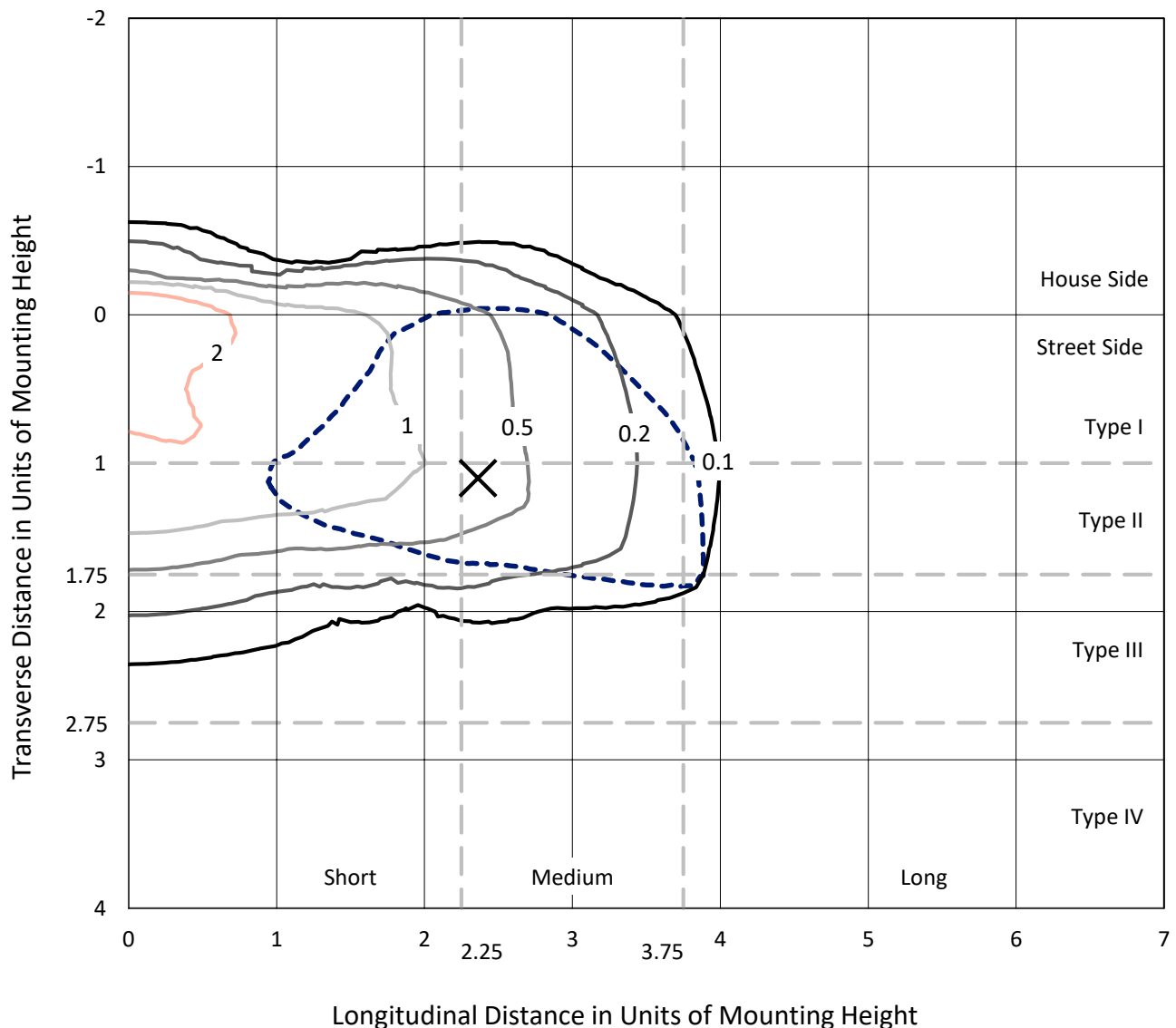
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

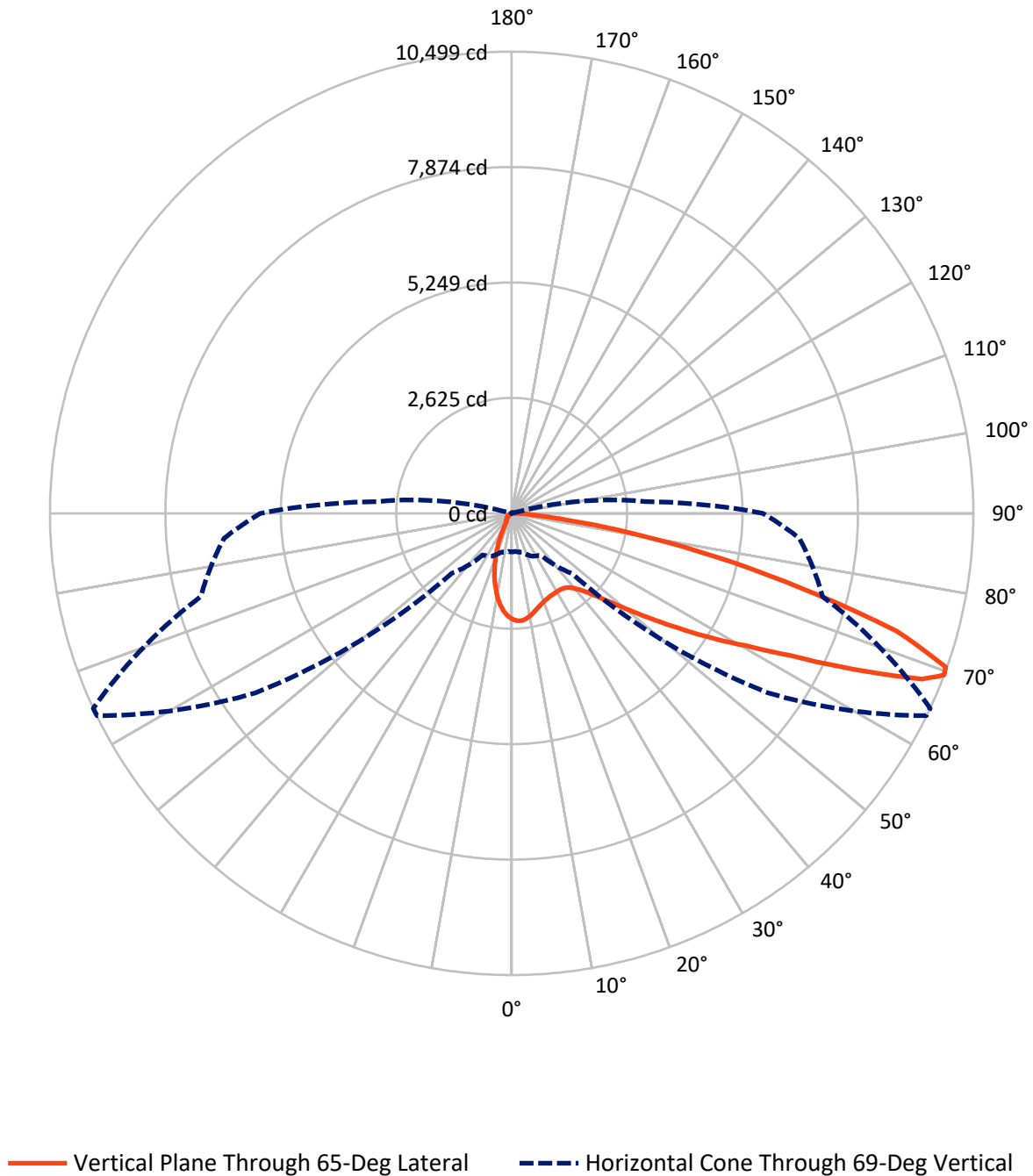
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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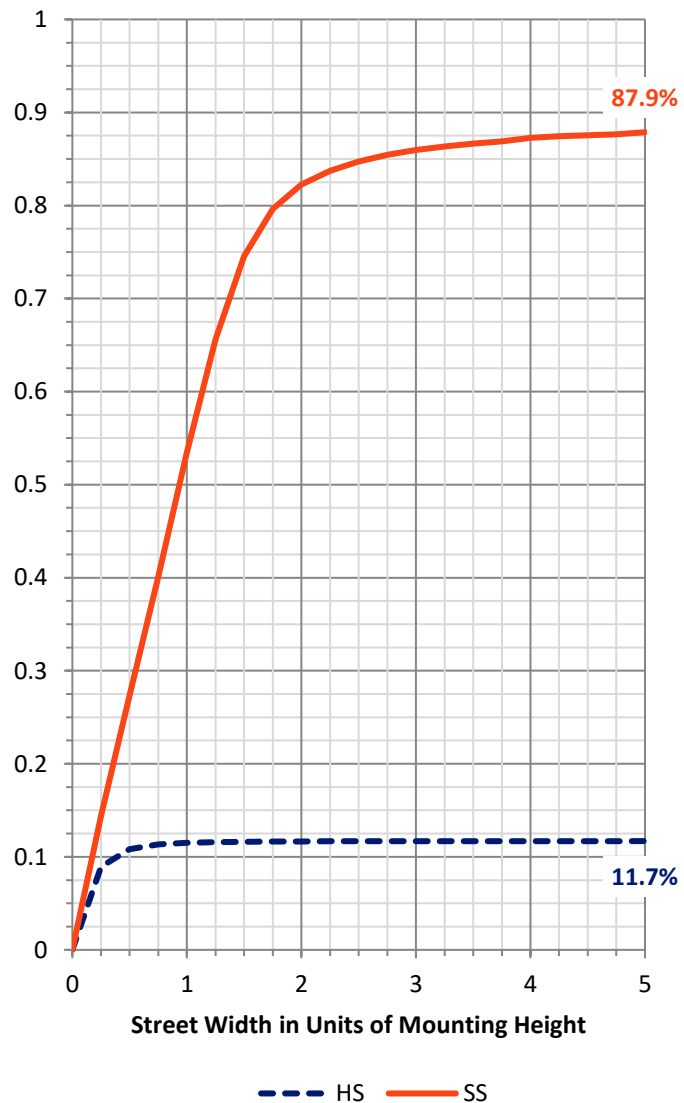
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1122.8	0.0	1122.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8402.2	0.0	8402.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	9525.0	0.0	9525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	2.1
10°-20°	440.6	4.6
20°-30°	610.2	6.4
30°-40°	850.9	8.9
40°-50°	1322.5	13.9
50°-60°	2123.2	22.3
60°-70°	2401.7	25.2
70°-80°	1410.5	14.8
80°-90°	164.1	1.7
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°	9525.0	100.0
0°-180°	9525.0	100.0

Coefficient of Utilization



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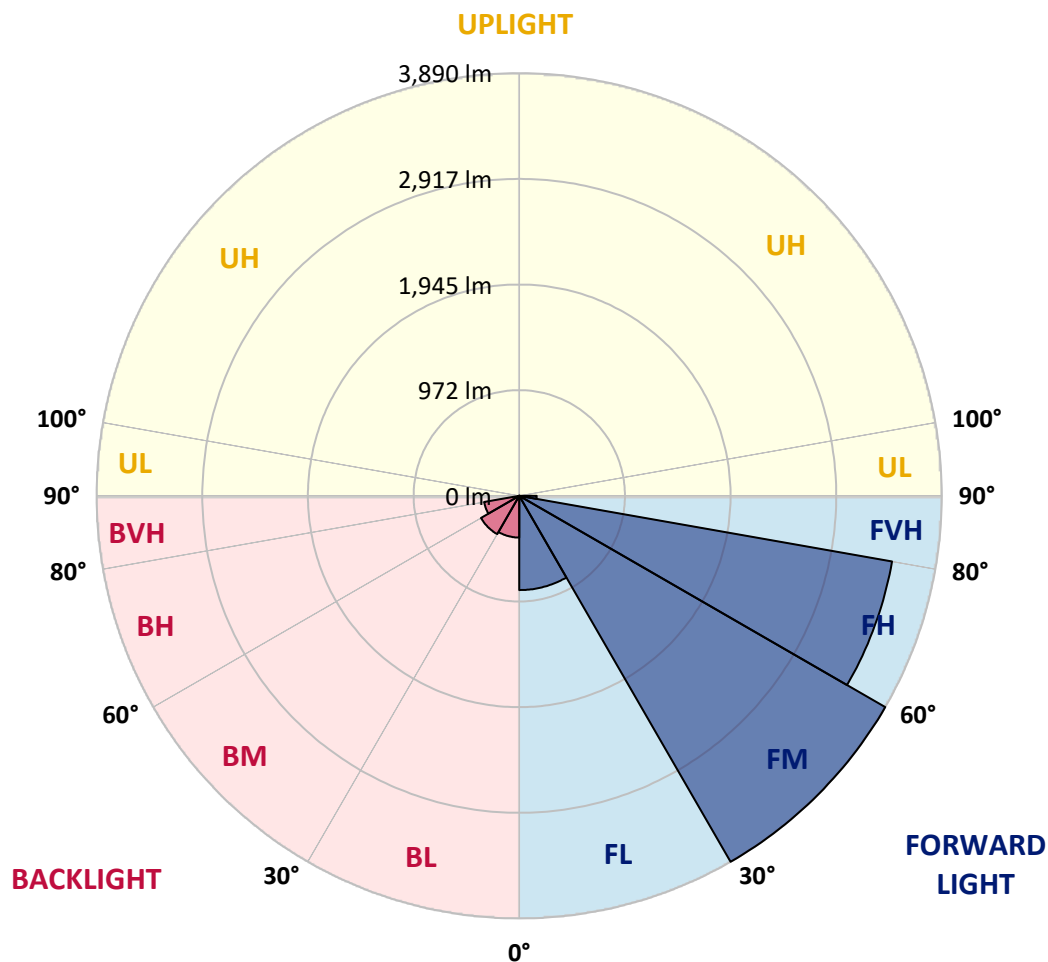
CATALOG NUMBER: GLEON-SA2C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.0	9.1			
FM	(30°-60°)	3889.7	40.8			
FH	(60°-80°)	3484.2	36.6			G2/5000
FVH	(80°-90°)	160.4	1.7			G2/225
BL	(0°-30°)	384.2	4.0	B1/500		
BM	(30°-60°)	406.9	4.3	B1/1000		
BH	(60°-80°)	328.1	3.4	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
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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CATALOG NUMBER: GLEON-SA2C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0
2.5°	2428.3	2422.3	2427.1	2437.6	2442.9	2442.9	2446.9	2442.0	2443.7	2432.0	2415.0
5°	2276.4	2267.1	2280.4	2309.9	2346.1	2377.2	2423.1	2447.3	2449.7	2450.1	2430.4
7.5°	2112.8	2104.3	2124.0	2158.7	2205.5	2263.1	2343.3	2413.4	2417.5	2455.3	2440.8
10°	1979.8	1973.7	1996.7	2033.8	2088.6	2153.1	2251.4	2348.9	2360.6	2444.5	2439.2
12.5°	1874.2	1869.3	1891.1	1933.8	1989.8	2061.2	2163.9	2277.2	2292.9	2419.9	2431.2
15°	1797.2	1796.4	1814.5	1855.6	1917.7	1984.2	2089.4	2210.7	2228.8	2393.3	2430.0
17.5°	1756.9	1758.1	1771.4	1806.4	1859.6	1925.7	2026.5	2154.7	2174.4	2369.5	2436.0
20°	1752.8	1754.1	1761.3	1781.1	1824.2	1882.6	1975.3	2107.5	2128.1	2351.8	2445.7
22.5°	1788.3	1787.5	1789.5	1787.5	1811.7	1856.0	1941.5	2071.2	2095.0	2340.1	2453.3
25°	1856.4	1855.2	1854.4	1839.5	1823.4	1847.2	1927.4	2050.7	2073.3	2331.6	2457.8
27.5°	1951.1	1950.3	1949.1	1924.5	1876.2	1861.3	1929.0	2043.0	2062.0	2324.8	2457.0
30°	2075.7	2081.3	2079.7	2045.5	1970.1	1904.4	1945.9	2039.0	2055.5	2311.5	2448.5
32.5°	2222.0	2233.3	2242.1	2205.5	2111.1	1989.8	1985.0	2043.4	2055.5	2301.4	2433.2
35°	2373.9	2388.4	2421.1	2408.2	2284.1	2118.4	2052.3	2070.0	2080.1	2307.0	2425.9
37.5°	2523.5	2540.8	2611.7	2649.2	2510.6	2288.5	2157.1	2135.7	2141.0	2341.3	2434.0
40°	2697.2	2723.4	2831.0	2891.4	2781.0	2516.2	2313.9	2248.6	2250.6	2416.7	2471.5
42.5°	2925.3	2952.3	3068.8	3163.5	3085.7	2804.0	2526.7	2421.1	2419.1	2557.7	2559.7
45°	3203.4	3231.6	3352.1	3457.3	3422.3	3145.0	2799.1	2673.0	2670.6	2780.2	2727.0
47.5°	3518.6	3546.4	3654.0	3762.4	3800.3	3543.2	3146.2	3016.8	3011.1	3089.3	2985.4
50°	3789.0	3807.2	3906.3	4052.2	4223.1	4032.5	3577.8	3453.3	3447.2	3500.0	3364.6
52.5°	3887.4	3897.8	3998.6	4203.0	4629.4	4695.1	4144.9	3984.5	3980.1	4003.0	3869.6
55°	3688.3	3707.2	3830.9	4134.0	4849.4	5443.9	4860.7	4642.3	4608.8	4559.2	4397.6
57.5°	3145.8	3176.0	3309.0	3712.0	4746.7	6038.0	5912.7	5386.3	5337.1	5034.0	4826.9
60°	2357.0	2394.1	2504.5	2939.4	4198.1	6249.6	7062.2	6215.4	6104.5	5412.1	5221.4
62.5°	1617.4	1636.0	1710.9	1994.3	3091.8	5903.0	8023.8	7325.7	7123.4	5823.2	5648.3
65°	1235.3	1241.8	1272.4	1369.9	1841.1	4795.0	8406.3	8790.8	8546.2	6314.9	6091.2
67.5°	995.5	990.3	1032.6	1172.1	1232.9	2925.3	7960.1	10176.9	10062.4	6972.3	6537.0
69°	877.8	870.6	913.7	1075.7	1157.9	1933.8	7116.2	10491.7	10498.9	7319.3	6567.6
70°	790.0	794.8	837.5	1018.5	1132.6	1517.9	6310.1	10411.5	10468.7	7449.1	6383.8
72.5°	527.6	540.5	626.3	845.6	1089.0	1148.7	3810.0	8934.3	9154.4	7156.9	5477.0
75°	297.4	307.1	409.1	637.6	1026.2	1093.9	2012.4	6582.1	6794.9	5984.8	4223.5
77.5°	145.9	151.1	231.3	411.5	858.1	1042.3	1141.4	4471.0	4714.0	3906.3	2388.8
80°	61.7	64.5	115.7	253.9	613.4	994.7	847.6	2751.6	2781.8	1530.4	636.4
82.5°	23.8	24.6	48.8	158.4	389.7	775.5	709.0	1304.7	1273.2	288.2	145.1
85°	2.8	3.2	17.7	95.1	216.8	399.0	576.0	562.2	520.3	57.2	74.6
87.5°	0.0	0.0	1.2	29.0	64.5	187.0	299.5	233.4	210.4	18.5	38.7
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-SA2C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0	2407.0
2.5°	2400.9	2396.9	2375.1	2343.7	2313.9	2276.8	2241.3	2220.0	2203.0	2191.8	2205.1
5°	2407.4	2389.7	2323.6	2238.9	2155.9	2062.4	1975.3	1901.6	1872.5	1840.3	1854.8
7.5°	2405.4	2371.9	2253.0	2102.3	1949.9	1792.3	1643.2	1528.3	1468.7	1410.3	1425.2
10°	2395.3	2338.9	2158.7	1935.4	1707.3	1480.8	1269.2	1108.4	1018.5	937.1	948.8
12.5°	2373.1	2294.5	2047.5	1744.4	1439.3	1140.6	892.7	686.8	576.4	527.6	533.6
15°	2359.8	2251.4	1929.8	1550.9	1153.1	794.4	545.7	405.9	355.5	339.4	341.4
17.5°	2353.4	2209.9	1808.1	1329.6	860.5	505.8	352.7	311.2	300.3	297.4	298.3
20°	2346.9	2168.0	1682.7	1110.8	592.9	340.2	289.8	277.7	273.7	270.0	270.8
22.5°	2336.0	2127.7	1548.1	889.1	399.8	276.1	261.2	249.5	241.0	236.6	237.4
25°	2322.7	2085.4	1410.7	662.2	291.8	246.3	232.2	215.6	205.6	197.5	197.9
27.5°	2301.4	2033.4	1268.8	482.0	245.1	220.5	201.5	183.4	166.5	157.2	157.2
30°	2271.6	1974.5	1111.2	345.0	219.7	195.1	172.1	149.5	131.4	122.9	122.1
32.5°	2238.5	1913.3	952.0	261.6	199.5	171.3	145.1	121.3	105.2	98.3	97.9
35°	2210.3	1847.2	793.2	219.3	179.4	148.3	119.7	99.6	86.7	81.0	80.6
37.5°	2192.2	1781.1	638.4	195.9	161.2	127.0	100.4	82.2	73.0	68.5	68.1
40°	2189.3	1731.9	497.0	178.1	144.3	108.0	83.8	69.7	61.3	56.4	56.0
42.5°	2226.0	1703.7	381.3	163.2	127.0	91.5	71.3	59.7	50.8	45.9	45.5
45°	2322.3	1712.5	293.4	149.9	109.6	77.4	60.5	49.6	41.5	37.9	37.1
47.5°	2498.1	1773.8	233.4	136.6	93.1	65.7	51.6	41.1	34.3	30.6	30.2
50°	2810.8	1917.7	195.1	122.1	77.8	56.0	42.7	33.5	27.8	24.6	24.2
52.5°	3226.0	2174.0	174.1	108.0	64.5	47.6	35.1	26.6	21.8	19.3	18.9
55°	3683.8	2484.4	160.4	92.7	52.8	39.5	27.8	21.0	16.9	14.9	14.1
57.5°	4130.8	2753.2	147.5	77.8	43.9	32.2	22.2	16.5	13.3	11.3	10.9
60°	4541.5	3000.3	132.6	62.5	35.9	25.4	17.3	12.9	10.5	8.5	8.5
62.5°	4981.2	3191.3	112.0	48.8	29.4	19.3	14.1	11.7	8.5	7.3	6.9
65°	5447.2	3333.2	87.9	37.9	23.0	14.5	11.7	12.1	6.9	5.2	4.8
67.5°	5791.4	3305.0	64.9	29.8	17.7	11.3	11.3	12.9	6.0	4.0	3.6
69°	5715.6	3075.6	54.4	25.8	15.3	9.7	10.5	12.9	5.6	3.6	3.2
70°	5495.9	2821.7	48.0	23.0	13.7	8.9	10.1	12.5	5.2	3.6	3.2
72.5°	4577.0	2125.3	37.5	17.3	10.9	7.3	8.5	10.9	5.2	3.6	2.8
75°	3442.8	1360.3	28.6	12.5	8.1	5.6	6.4	8.1	5.2	3.2	2.8
77.5°	1873.4	490.5	20.6	8.5	5.6	4.4	4.4	6.0	4.8	2.4	1.6
80°	481.6	123.3	12.9	5.6	4.4	3.2	2.8	4.0	2.8	0.4	0.0
82.5°	118.9	27.8	6.9	4.0	3.2	1.2	1.2	2.0	1.2	0.0	0.0
85°	65.3	13.7	4.4	2.8	1.6	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	33.5	4.0	1.2	0.8	0.4	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
 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

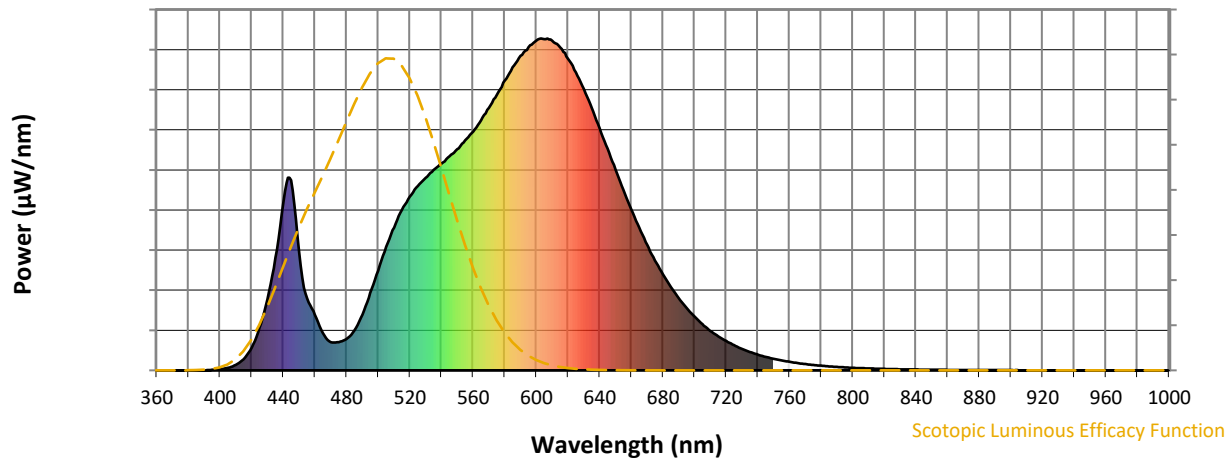


Photopic Lumens: NR

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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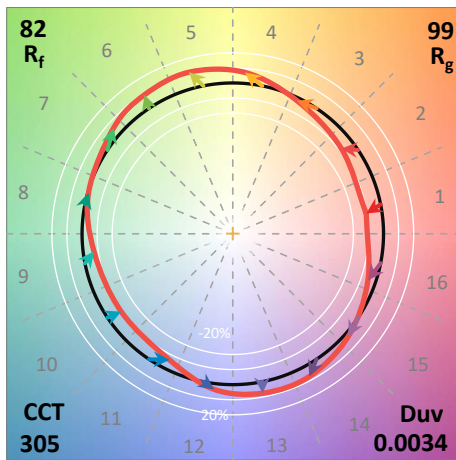
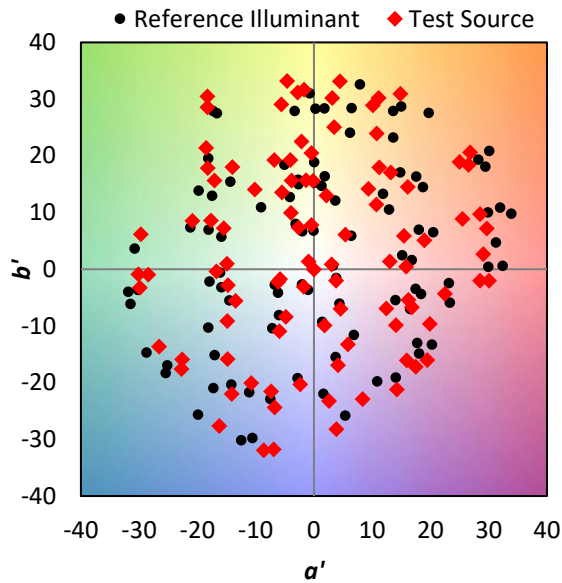
TM-30-18

Summary

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



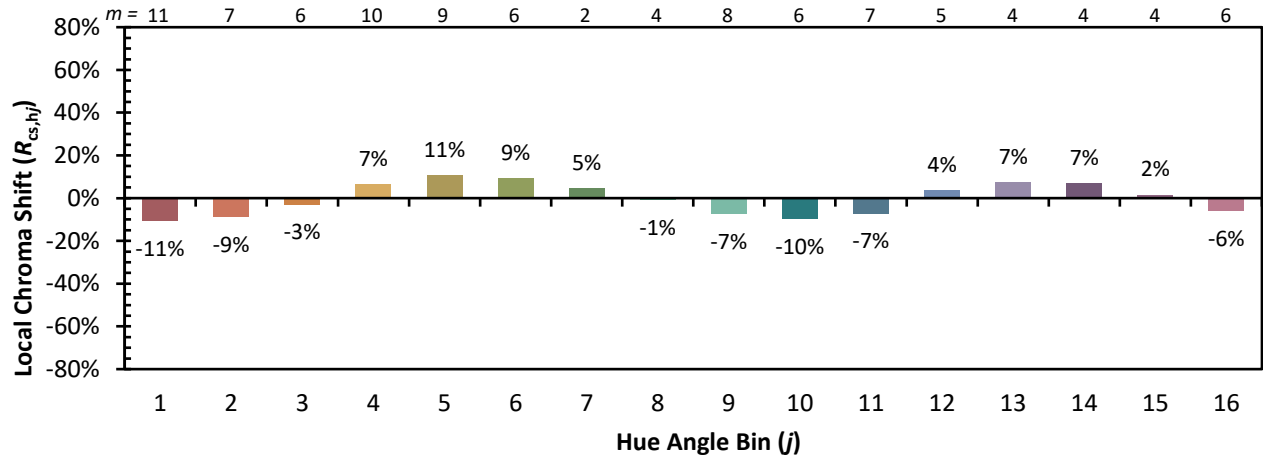
Color Vector Graphics



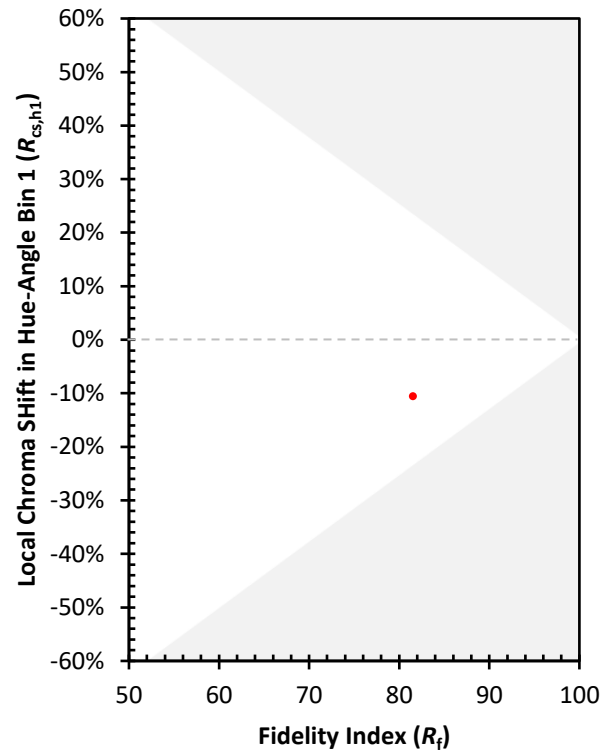
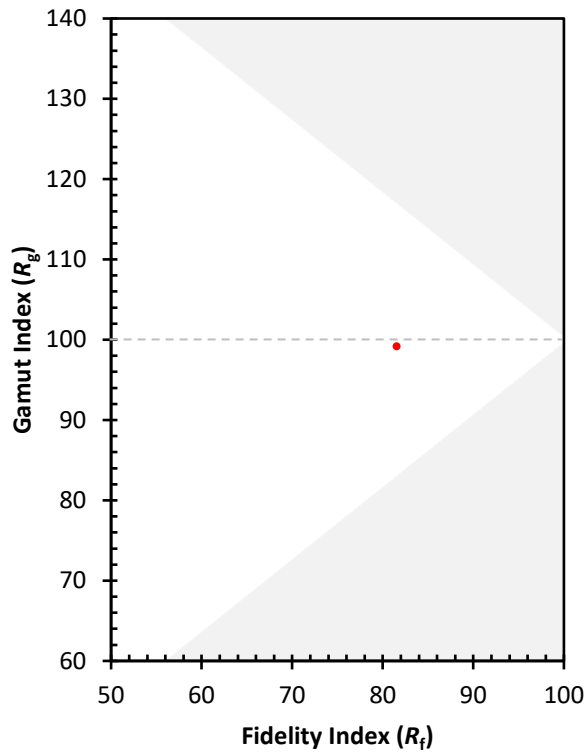
Individual Sample Fidelity Index ($R_{f,i}$)

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)