

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: P319516

Luminaire Tested: **GLEON-SA2B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319516
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-SA2B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9102 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

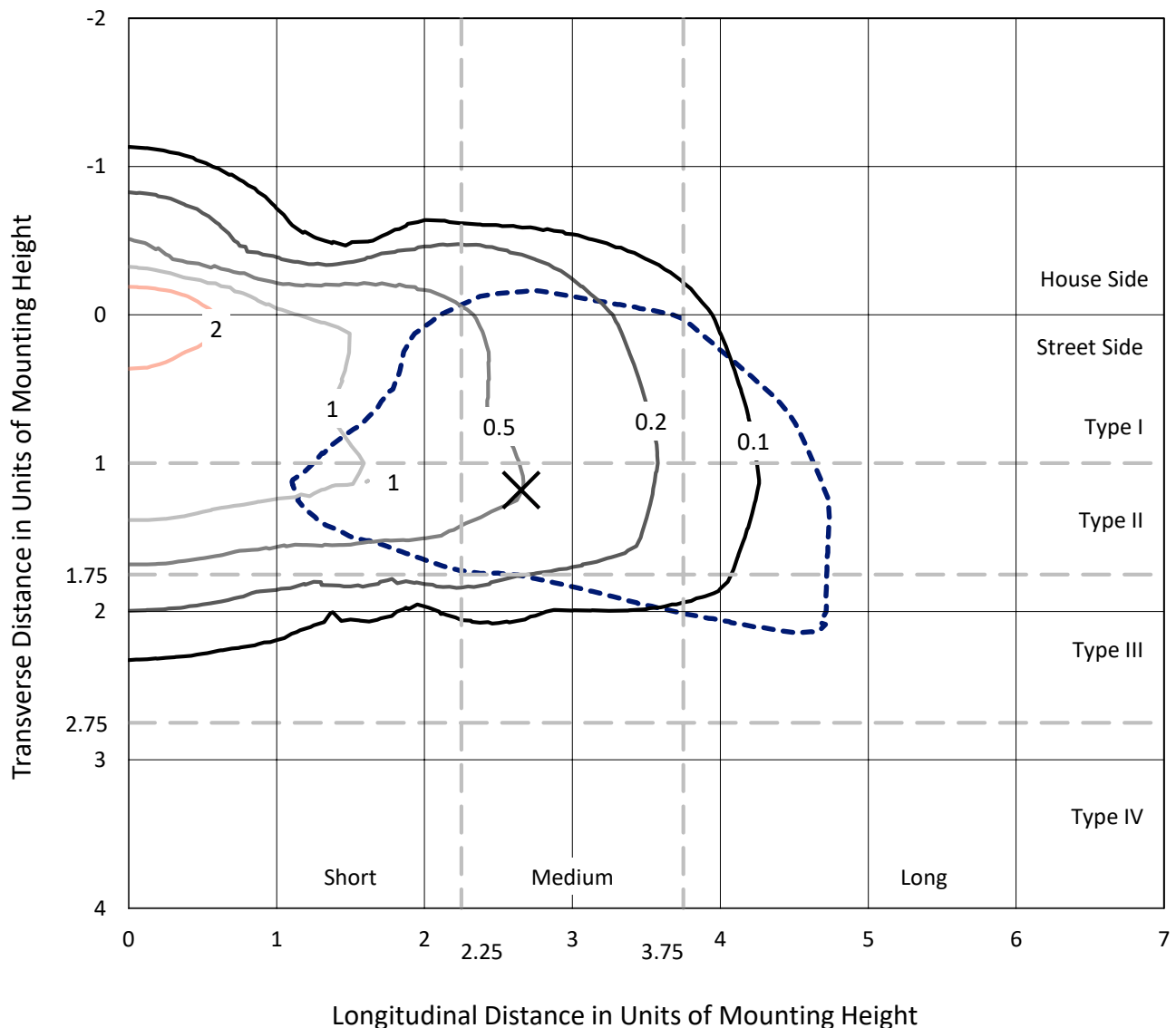
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

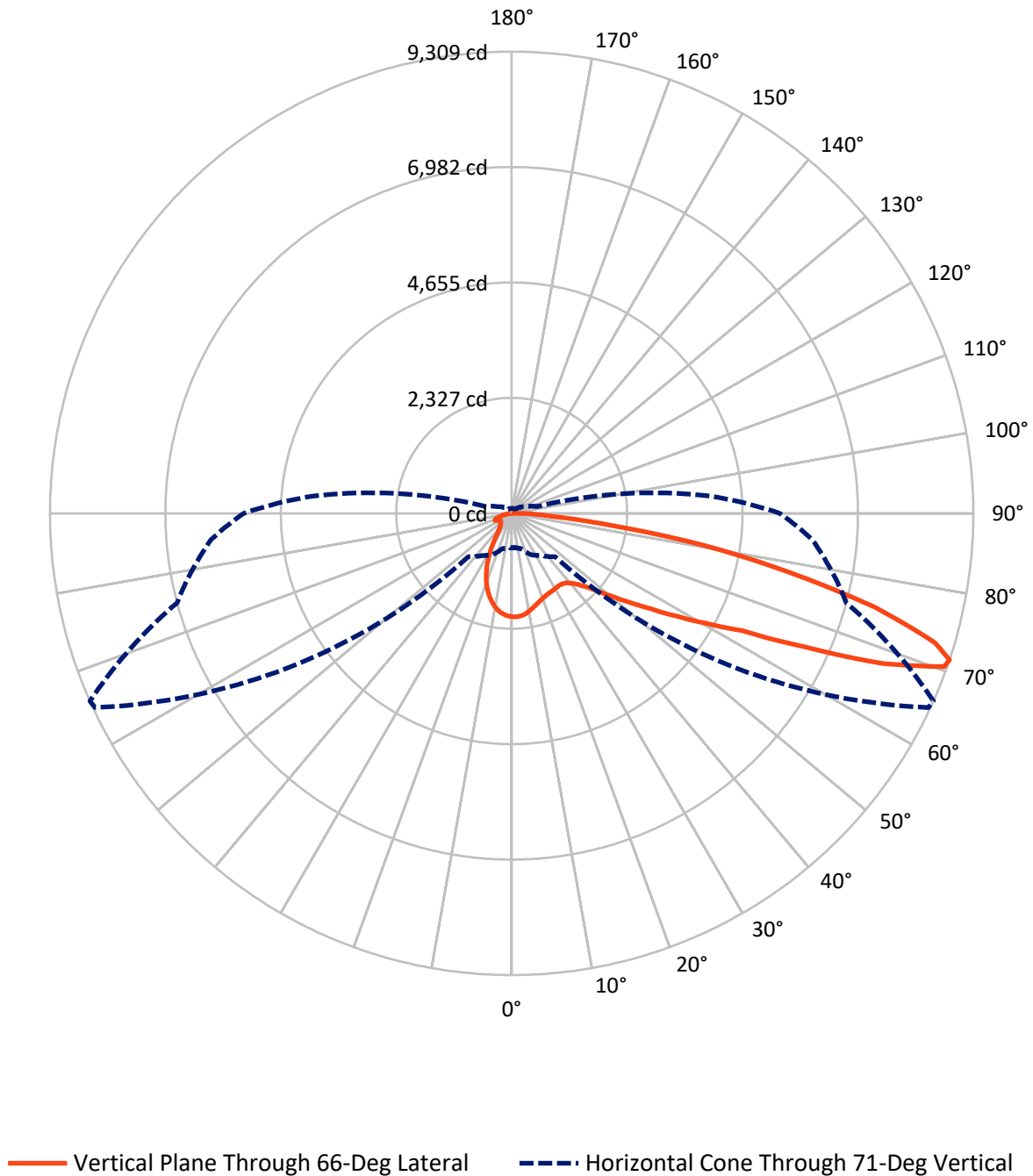
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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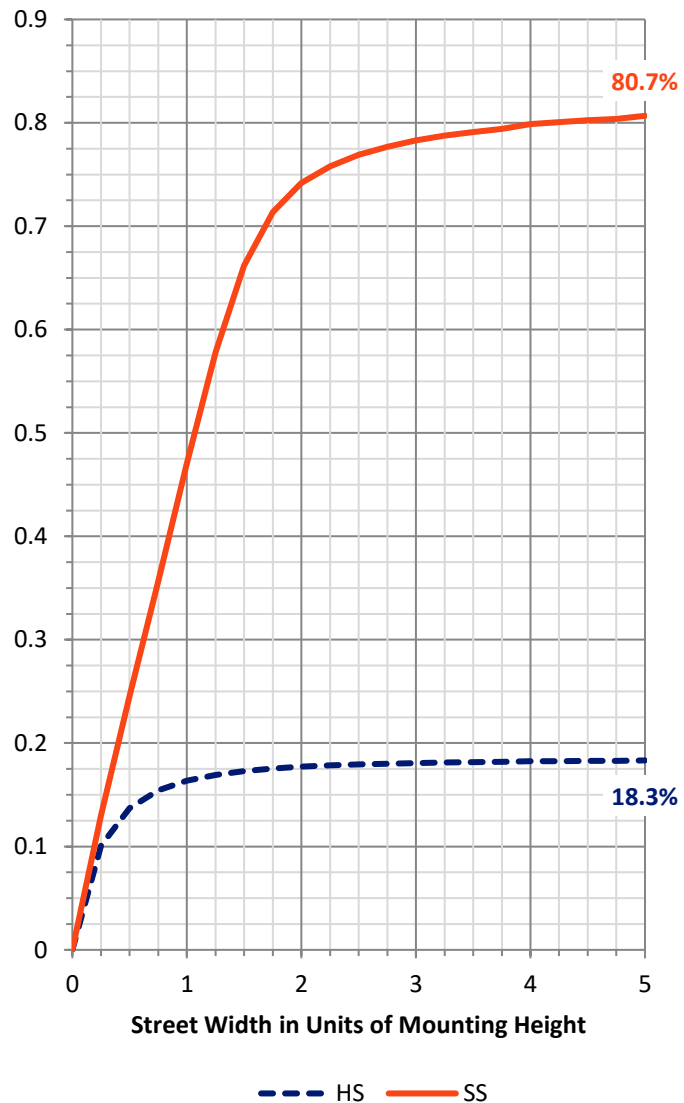
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.8	0.0	1686.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7415.2	0.0	7415.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	9102.0	0.0	9102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.0
10°-20°	440.2	4.8
20°-30°	591.3	6.5
30°-40°	777.9	8.5
40°-50°	1131.6	12.4
50°-60°	1767.6	19.4
60°-70°	2214.2	24.3
70°-80°	1689.0	18.6
80°-90°	306.7	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°	9102.0	100.0
0°-180°	9102.0	100.0

Coefficient of Utilization



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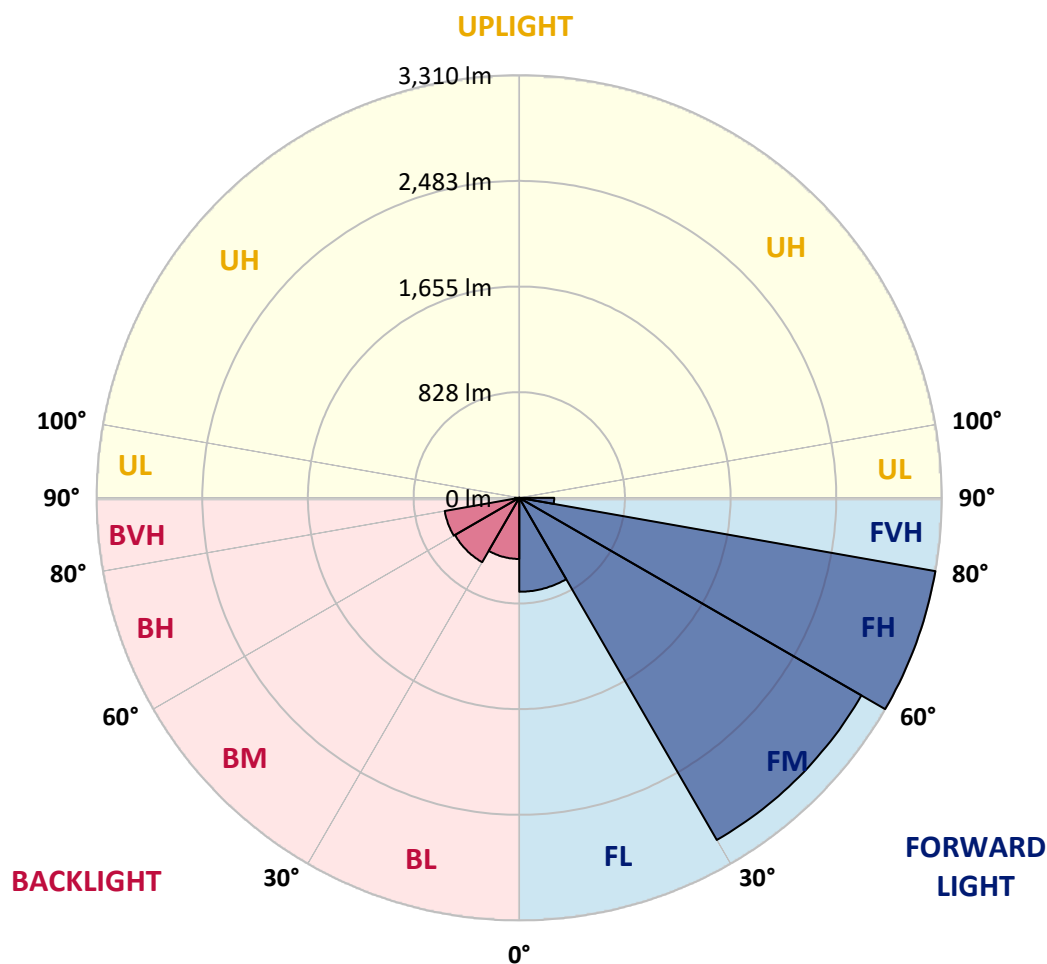
CATALOG NUMBER: GLEON-SA2B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.0	8.1			
FM	(30°-60°)	3095.1	34.0			
FH	(60°-80°)	3310.5	36.4			G2/5000
FVH	(80°-90°)	273.5	3.0			G3/500
BL	(0°-30°)	479.0	5.3	B1/500		
BM	(30°-60°)	581.9	6.4	B1/1000		
BH	(60°-80°)	592.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	33.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1
2.5°	2046.4	2043.3	2052.7	2062.5	2066.2	2072.5	2081.9	2087.3	2087.0	2087.9	2084.8
5°	1910.7	1906.6	1925.4	1940.8	1970.4	2003.7	2044.2	2073.2	2073.8	2090.1	2094.5
7.5°	1782.1	1779.3	1801.0	1825.8	1860.1	1911.0	1976.7	2038.9	2042.7	2087.0	2102.4
10°	1679.1	1678.4	1699.5	1726.5	1766.4	1823.3	1898.7	1989.9	1995.5	2071.9	2103.6
12.5°	1598.6	1599.9	1618.1	1648.9	1691.0	1750.4	1832.1	1934.9	1944.0	2048.0	2096.4
15°	1539.2	1544.3	1559.0	1590.1	1631.6	1692.0	1775.9	1884.0	1897.8	2021.3	2092.3
17.5°	1505.3	1510.9	1521.3	1547.1	1586.1	1644.2	1723.7	1842.2	1854.7	2000.9	2092.6
20°	1495.2	1499.9	1505.9	1521.6	1554.6	1607.4	1682.5	1804.5	1818.0	1984.5	2095.8
22.5°	1515.0	1518.5	1519.1	1517.9	1538.0	1581.0	1652.7	1776.8	1791.3	1973.8	2098.0
25°	1557.5	1562.2	1558.7	1547.1	1540.5	1566.9	1637.3	1758.6	1773.0	1966.0	2093.6
27.5°	1621.2	1621.9	1619.0	1604.0	1572.9	1568.5	1632.6	1747.9	1761.7	1956.9	2084.5
30°	1708.0	1712.1	1707.0	1686.6	1635.7	1593.6	1638.2	1737.5	1750.1	1945.2	2069.7
32.5°	1809.5	1819.5	1819.2	1797.9	1725.0	1649.8	1661.5	1731.2	1741.0	1933.0	2051.8
35°	1914.8	1928.6	1954.4	1945.2	1855.1	1738.8	1706.1	1741.3	1747.9	1931.4	2039.2
37.5°	2024.1	2038.0	2091.1	2115.6	2010.0	1866.1	1776.5	1776.8	1779.9	1950.6	2038.3
40°	2138.5	2153.3	2233.1	2296.9	2210.8	2027.3	1889.9	1851.0	1847.5	1997.7	2056.8
42.5°	2298.8	2312.0	2407.8	2489.2	2433.6	2233.7	2046.8	1965.4	1958.1	2090.1	2116.2
45°	2501.5	2512.8	2614.6	2701.7	2673.1	2469.4	2243.8	2122.8	2121.5	2244.1	2236.6
47.5°	2742.5	2751.3	2842.8	2927.0	2937.4	2740.6	2491.4	2365.7	2345.3	2455.3	2422.9
50°	2993.6	3003.3	3065.6	3156.1	3233.1	3103.6	2810.1	2663.3	2636.0	2734.0	2686.9
52.5°	3159.8	3172.7	3226.8	3341.5	3565.6	3501.4	3186.9	3024.1	2982.6	3071.9	3035.7
55°	3085.7	3114.6	3197.2	3381.1	3831.4	4109.2	3651.7	3444.9	3398.1	3472.2	3450.9
57.5°	2748.5	2788.1	2900.9	3184.7	3868.8	4644.7	4354.3	3940.5	3907.5	3886.1	3895.8
60°	2132.2	2170.3	2310.1	2680.0	3608.3	5035.6	5411.8	4551.4	4503.6	4301.5	4310.3
62.5°	1509.1	1489.9	1585.7	1856.3	2932.0	5081.5	6615.1	5368.4	5211.3	4740.2	4701.6
65°	1150.8	1146.4	1189.5	1275.6	1775.9	4532.5	7331.9	6741.7	6496.3	5256.3	5165.1
67.5°	945.6	937.7	980.2	1105.6	1143.6	2924.2	7347.6	8335.0	8094.0	5898.6	5701.2
70°	777.5	768.7	808.3	970.1	1056.8	1483.0	6183.9	9268.1	9255.2	6711.9	6106.0
71°	697.0	690.7	738.2	917.9	1038.3	1236.0	5339.2	9270.6	9309.2	6987.2	6082.1
72.5°	567.5	569.7	620.0	817.1	1024.5	1091.4	3924.1	8838.5	8920.2	7249.6	5865.0
75°	377.1	379.0	445.0	628.5	993.4	1067.8	2156.7	7416.5	7566.7	7092.5	5351.8
77.5°	253.3	252.7	297.6	431.2	865.5	1067.8	1264.6	5546.9	5711.9	5643.4	4125.9
80°	174.4	173.2	204.9	297.6	655.2	1080.7	977.7	3887.4	3937.3	3047.7	1676.9
82.5°	106.8	107.8	133.9	210.2	445.9	972.6	923.0	2119.7	2065.3	854.8	418.9
85°	61.3	61.0	85.5	142.4	286.3	820.8	900.0	912.3	836.9	257.4	151.5
87.5°	22.0	23.6	45.9	78.9	164.0	571.6	763.6	474.5	427.7	116.3	68.5
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°	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1
2.5°	2082.6	2084.5	2082.3	2069.7	2059.0	2041.7	2032.0	2018.5	2014.4	2012.5	2017.5
5°	2090.4	2091.1	2072.5	2039.5	2002.4	1958.8	1927.3	1888.7	1870.5	1862.6	1867.6
7.5°	2097.7	2094.8	2054.3	1991.1	1922.6	1846.6	1779.0	1717.1	1681.0	1666.2	1667.4
10°	2098.6	2086.7	2021.6	1923.9	1817.7	1706.1	1602.4	1506.9	1446.5	1407.2	1419.2
12.5°	2088.9	2068.8	1973.5	1836.8	1689.4	1537.3	1397.2	1253.9	1167.8	1127.9	1129.1
15°	2081.3	2044.9	1914.5	1734.4	1536.4	1335.0	1143.6	975.1	883.4	842.5	823.4
17.5°	2075.0	2019.1	1845.9	1619.0	1355.7	1100.2	870.2	720.0	669.7	657.7	652.7
20°	2066.2	1991.8	1769.6	1485.5	1149.9	837.5	635.4	561.3	561.6	575.4	577.3
22.5°	2054.0	1960.6	1688.2	1335.6	928.9	610.0	498.1	476.7	498.4	524.8	529.5
25°	2035.8	1923.9	1597.7	1170.0	708.3	468.9	425.5	424.6	451.0	478.6	482.7
27.5°	2010.0	1875.8	1497.1	992.1	522.0	398.5	381.2	387.8	407.3	427.4	429.0
30°	1975.4	1819.9	1386.2	804.5	409.2	354.8	352.9	358.9	370.8	385.0	386.2
32.5°	1937.4	1763.0	1267.7	622.9	350.4	331.2	333.1	335.9	341.6	347.3	348.5
35°	1902.8	1704.8	1146.4	473.3	322.4	315.8	314.6	313.9	314.6	312.7	313.0
37.5°	1880.5	1656.8	1020.1	376.8	306.4	302.3	298.5	293.8	288.5	285.3	286.0
40°	1872.3	1620.9	892.2	325.6	293.2	290.4	283.1	273.1	266.8	264.9	264.9
42.5°	1894.3	1602.4	768.7	299.8	282.2	277.5	265.5	253.9	249.2	248.9	248.6
45°	1961.6	1609.9	651.1	285.7	272.1	263.0	247.3	237.6	234.4	235.1	234.7
47.5°	2082.3	1657.4	550.6	276.2	262.1	250.1	232.5	224.7	220.9	220.9	221.2
50°	2287.5	1768.3	470.4	268.4	253.6	238.2	221.9	212.1	207.1	206.8	206.8
52.5°	2586.3	1966.9	420.5	261.8	244.2	227.5	211.2	198.9	193.0	191.7	191.1
55°	2960.9	2251.6	406.6	257.4	231.6	215.9	198.3	186.0	179.4	176.6	176.3
57.5°	3379.8	2598.0	434.0	252.0	218.7	202.1	184.2	172.5	165.6	162.2	161.8
60°	3803.8	2976.0	545.5	244.5	208.0	187.0	169.7	159.0	152.1	148.3	147.7
62.5°	4228.3	3374.5	773.4	243.9	200.5	172.5	154.9	145.8	139.2	135.1	134.2
65°	4707.2	3810.7	1032.3	260.5	198.0	159.3	139.8	132.6	127.0	123.2	122.9
67.5°	5257.2	4303.1	1007.5	294.8	206.5	147.4	125.7	120.0	116.0	112.8	112.5
70°	5515.2	4226.1	626.3	319.0	218.4	135.8	112.2	108.1	105.0	102.8	101.8
71°	5407.1	4012.7	525.1	316.1	217.2	130.7	106.8	103.7	100.6	98.7	97.7
72.5°	5112.3	3659.5	438.1	294.1	203.0	121.6	99.9	96.8	94.0	91.8	91.1
75°	4587.5	3268.3	350.7	235.1	161.8	102.8	87.7	84.2	82.0	80.8	79.5
77.5°	3372.3	2332.4	271.2	185.7	119.1	83.9	74.8	72.3	70.1	68.2	67.3
80°	1291.9	903.5	182.6	138.6	87.4	66.3	60.3	59.1	56.9	55.6	55.6
82.5°	347.9	269.9	97.4	83.9	58.5	48.4	46.2	45.6	43.7	41.2	41.5
85°	140.8	119.1	54.7	46.2	35.8	28.6	31.1	31.4	29.2	26.1	26.4
87.5°	61.9	50.6	30.5	20.4	15.7	11.0	14.1	14.1	12.9	10.7	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
 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

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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

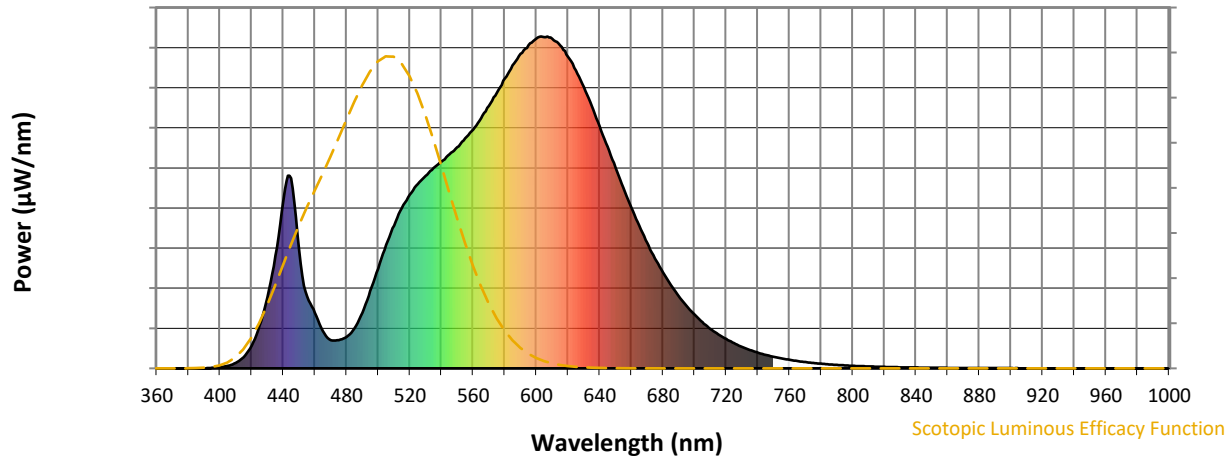


Photopic Lumens: NR

λ (nm)	Power W [^] /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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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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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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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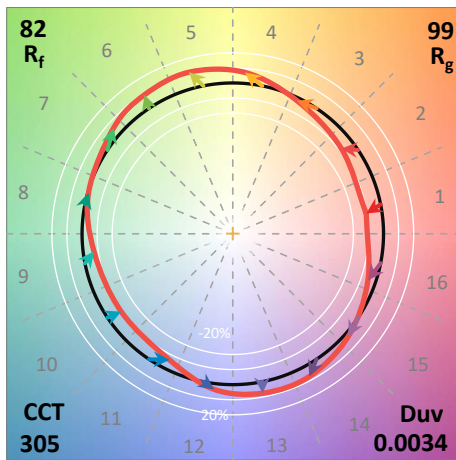
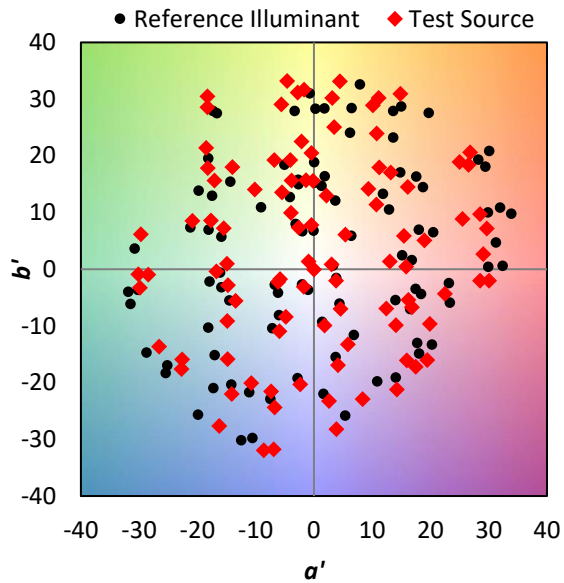
TM-30-18

Summary

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



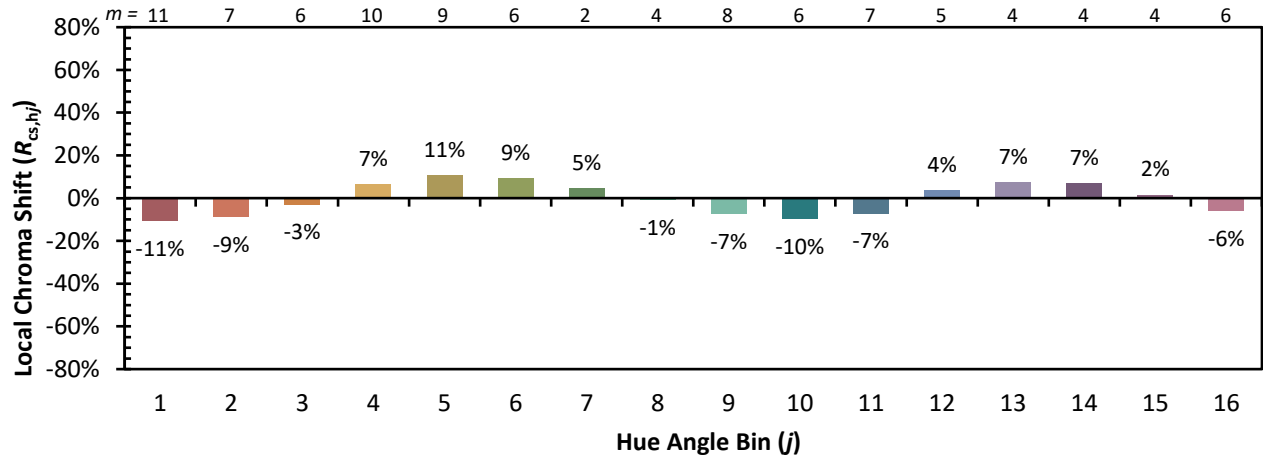
Color Vector Graphics



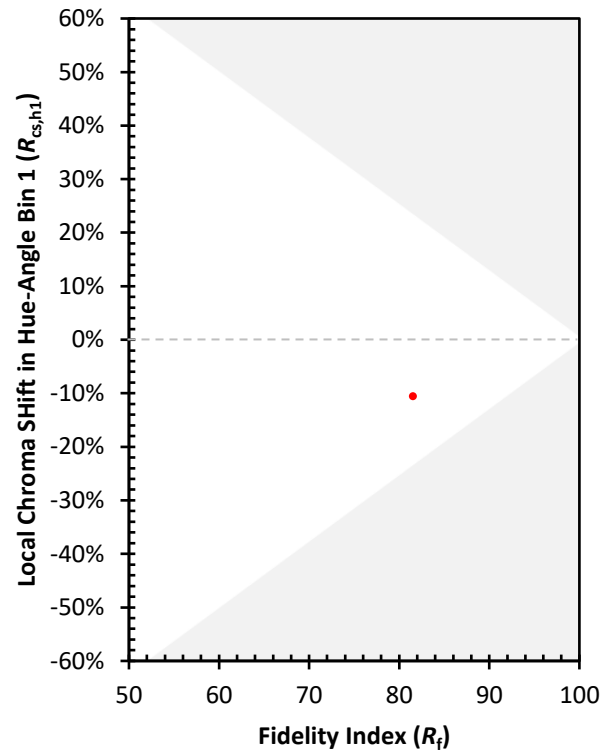
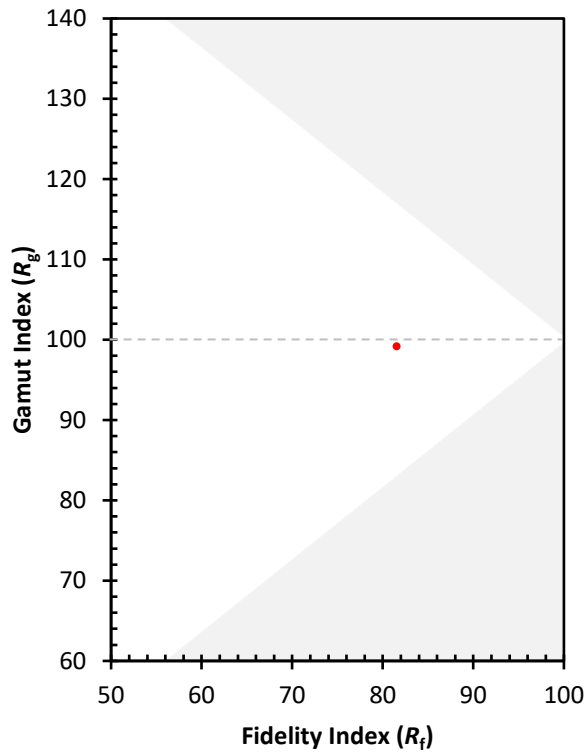
Individual Sample Fidelity Index ($R_{f,i}$)

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)