

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: P319534

Luminaire Tested: **GLEON-SA0C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319534
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-SA0C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA 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: 54500 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

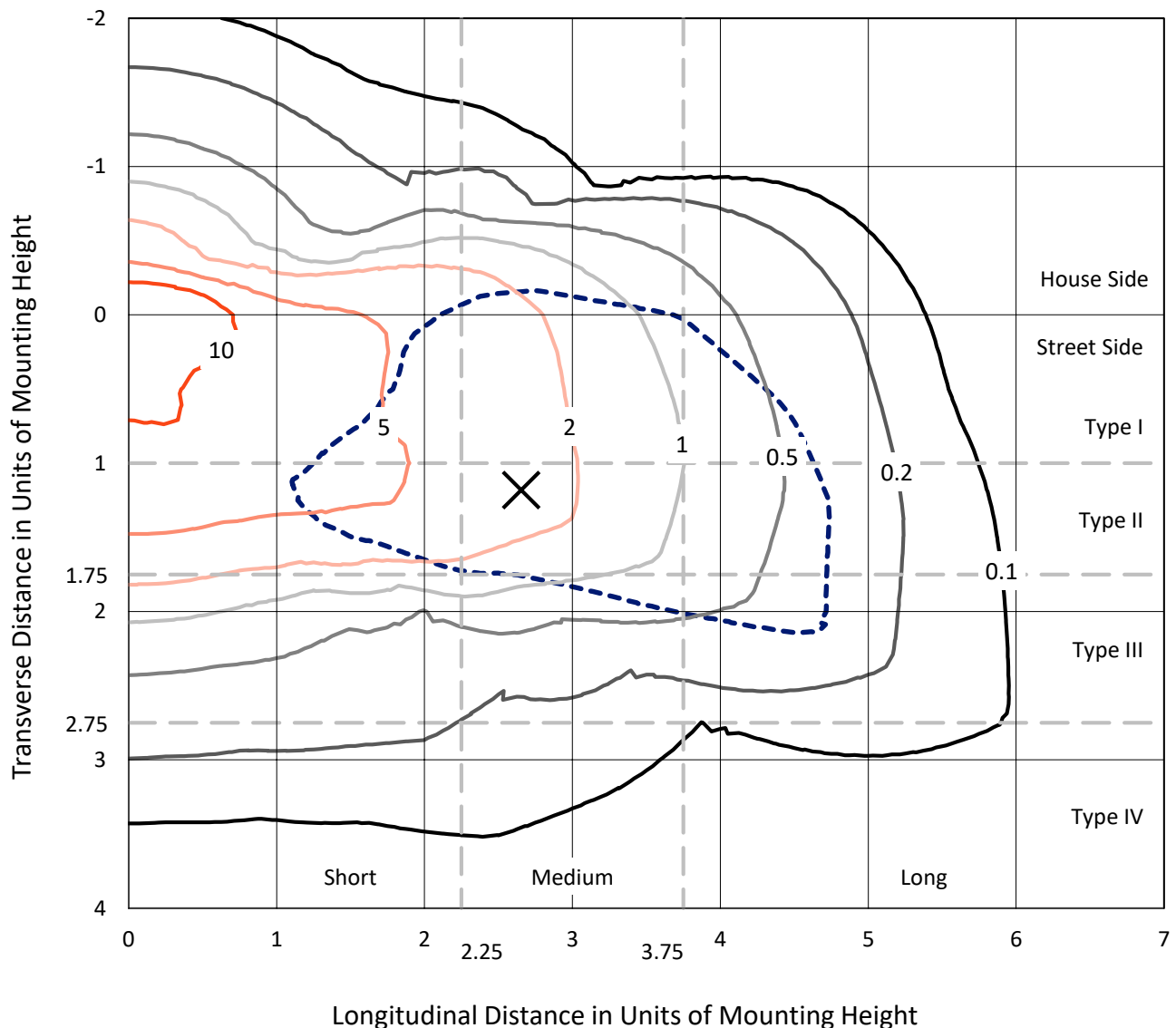
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

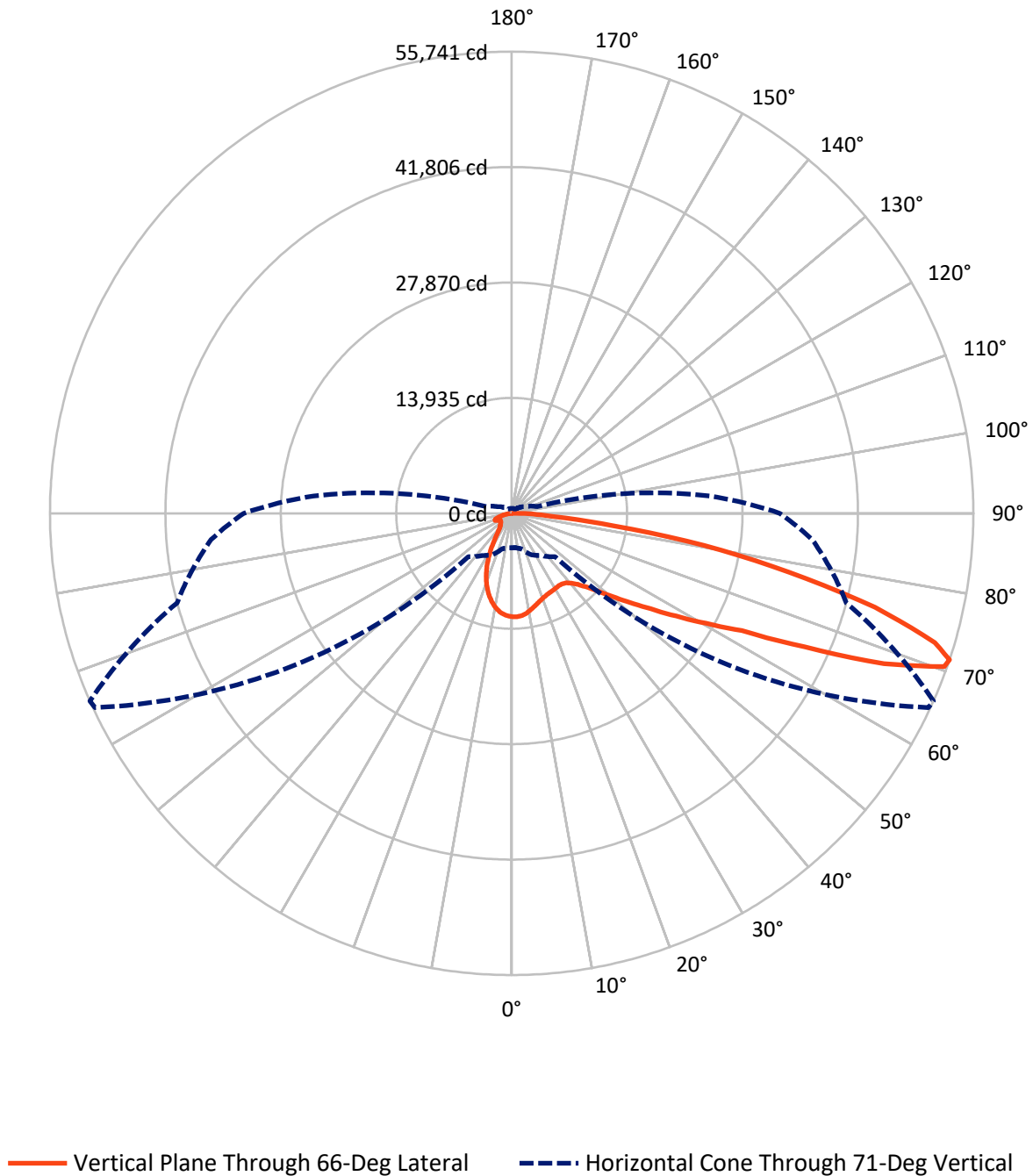
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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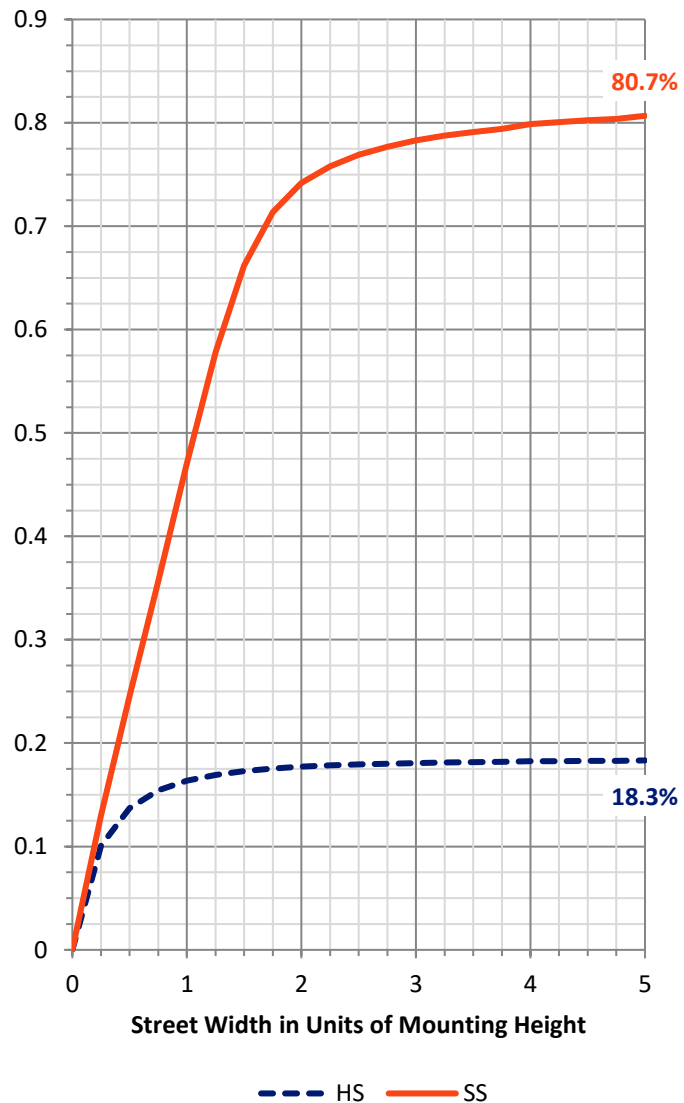
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10100.3	0.0	10100.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	44399.7	0.0	44399.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	54500.0	0.0	54500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.0	2.0
10°-20°	2635.8	4.8
20°-30°	3540.5	6.5
30°-40°	4657.5	8.5
40°-50°	6775.5	12.4
50°-60°	10584.0	19.4
60°-70°	13258.2	24.3
70°-80°	10113.1	18.6
80°-90°	1836.4	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°	54500.0	100.0
0°-180°	54500.0	100.0

Coefficient of Utilization



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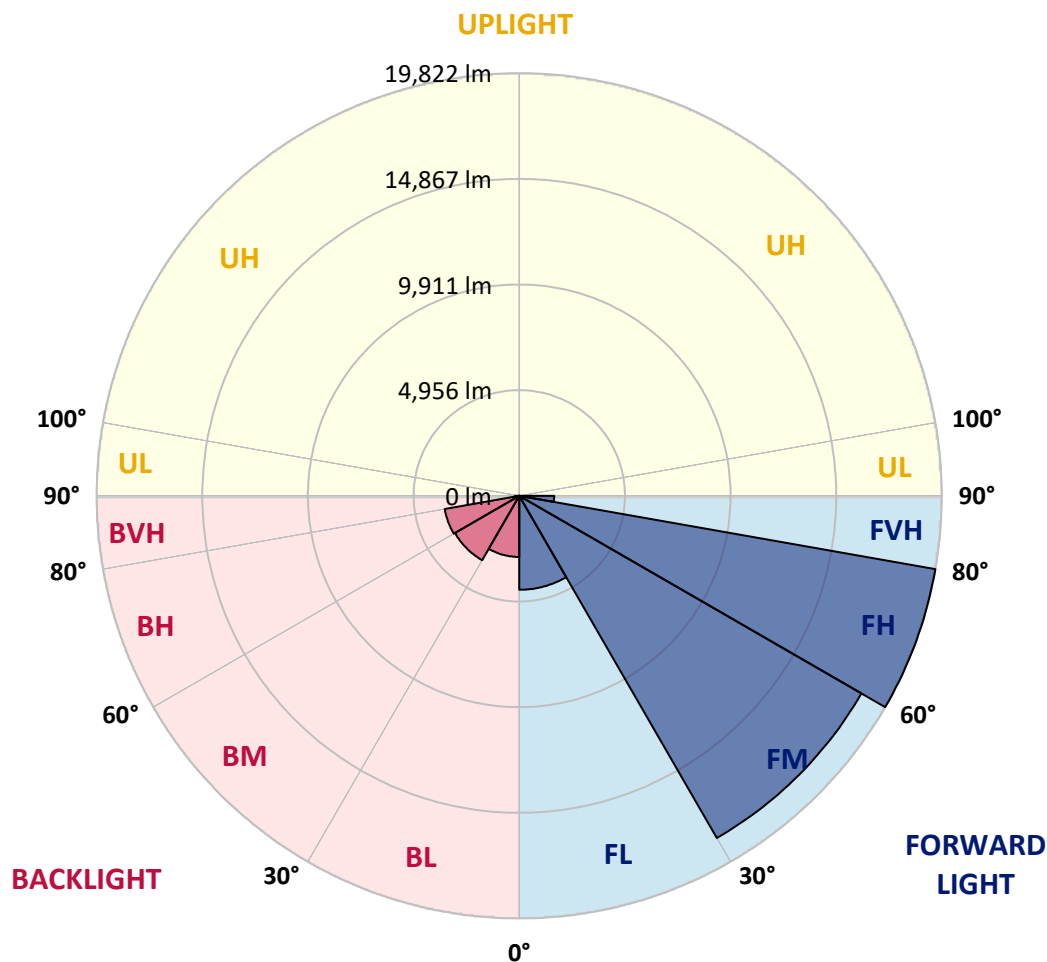
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4407.1	8.1			
FM	(30°-60°)	18532.7	34.0			
FH	(60°-80°)	19822.2	36.4			G5
FVH	(80°-90°)	1637.6	3.0			G5
BL	(0°-30°)	2868.2	5.3	B4/5000		
BM	(30°-60°)	3484.3	6.4	B3/5000		
BH	(60°-80°)	3549.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	198.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9
2.5°	12253.4	12234.6	12291.1	12349.4	12372.0	12409.6	12466.1	12498.1	12496.2	12501.8	12483.0
5°	11440.6	11416.1	11529.0	11621.2	11798.1	11997.5	12240.3	12413.4	12417.2	12515.0	12541.3
7.5°	10671.0	10654.0	10783.9	10932.5	11137.6	11442.4	11835.7	12208.3	12230.9	12496.2	12588.4
10°	10053.8	10050.0	10176.1	10337.9	10576.9	10917.5	11369.1	11914.7	11948.6	12405.9	12595.9
12.5°	9572.1	9579.6	9688.7	9873.1	10125.3	10480.9	10970.1	11585.5	11640.0	12262.9	12552.6
15°	9216.4	9246.5	9335.0	9521.3	9769.6	10130.9	10633.3	11280.6	11363.4	12102.9	12528.2
17.5°	9013.2	9047.1	9109.2	9263.5	9496.8	9844.9	10321.0	11030.4	11105.6	11980.6	12530.1
20°	8953.0	8981.2	9017.0	9111.1	9308.6	9624.8	10074.5	10804.6	10885.5	11882.8	12548.9
22.5°	9071.5	9092.2	9096.0	9088.5	9208.9	9466.7	9895.7	10639.0	10725.5	11818.8	12562.0
25°	9325.6	9353.8	9333.1	9263.5	9224.0	9382.0	9803.5	10529.8	10616.4	11771.7	12535.7
27.5°	9707.5	9711.3	9694.4	9604.1	9417.8	9391.4	9775.3	10465.9	10548.7	11717.2	12481.1
30°	10226.9	10251.4	10221.2	10098.9	9794.1	9542.0	9809.2	10403.8	10479.0	11647.6	12392.7
32.5°	10834.7	10894.9	10893.0	10765.0	10328.5	9878.8	9948.4	10366.1	10424.5	11574.2	12285.4
35°	11465.0	11547.8	11702.1	11647.6	11107.5	10411.3	10215.6	10426.3	10465.9	11564.8	12210.2
37.5°	12119.9	12202.6	12520.6	12667.4	12035.2	11173.4	10637.1	10639.0	10657.8	11679.5	12204.5
40°	12804.8	12893.2	13371.2	13753.1	13237.6	12138.7	11316.4	11083.0	11062.4	11961.8	12315.5
42.5°	13764.4	13843.5	14417.4	14904.7	14571.7	13374.9	12255.3	11768.0	11724.7	12515.0	12671.2
45°	14978.1	15045.9	15655.5	16176.7	16005.5	14786.2	13435.1	12710.7	12703.2	13437.0	13391.9
47.5°	16421.4	16474.0	17021.6	17525.9	17588.0	16410.1	14917.9	14165.2	14042.9	14701.5	14507.7
50°	17924.8	17983.1	18355.7	18897.6	19358.6	18583.4	16825.9	15947.2	15783.5	16370.5	16088.3
52.5°	18920.2	18997.4	19321.0	20007.8	21349.5	20965.6	19082.0	18107.3	17859.0	18393.3	18177.0
55°	18476.1	18649.3	19144.1	20244.9	22941.3	24604.7	21865.0	20626.9	20346.5	20790.6	20662.6
57.5°	16457.1	16694.2	17369.7	19068.9	23165.3	27811.1	26072.4	23594.3	23396.7	23268.8	23327.1
60°	12767.1	12994.8	13832.2	16046.9	21605.4	30151.9	32404.3	27252.3	26966.2	25756.3	25809.0
62.5°	9035.8	8921.0	9494.9	11115.0	17556.0	30426.6	39609.2	32144.6	31203.8	28383.1	28151.7
65°	6890.7	6864.3	7122.1	7637.7	10633.3	27139.4	43901.3	40367.5	38897.9	31472.8	30927.2
67.5°	5662.0	5614.9	5868.9	6619.7	6847.4	17509.0	43995.4	49907.6	48464.3	35319.0	34137.3
70°	4655.3	4602.6	4839.7	5808.7	6328.1	8879.6	37027.5	55494.3	55417.1	40188.8	36560.9
71°	4173.5	4135.9	4420.0	5496.4	6217.0	7400.6	31969.6	55509.3	55740.8	41837.1	36417.9
72.5°	3398.3	3411.5	3712.5	4892.3	6134.3	6535.0	23496.4	52922.0	53411.3	43408.3	35117.6
75°	2258.0	2269.3	2664.4	3763.3	5948.0	6393.9	12913.9	44407.5	45306.9	42467.5	32044.9
77.5°	1516.6	1512.9	1781.9	2581.7	5182.1	6393.9	7571.8	33213.4	34201.3	33791.1	24704.5
80°	1044.3	1036.8	1226.9	1781.9	3923.3	6471.1	5853.9	23276.3	23575.5	18248.5	10040.6
82.5°	639.8	645.4	801.6	1258.8	2670.1	5823.8	5526.5	12691.9	12366.3	5118.1	2508.3
85°	366.9	365.0	511.8	852.4	1714.2	4914.9	5389.1	5462.5	5010.9	1541.1	907.0
87.5°	131.7	141.1	274.7	472.3	982.2	3422.8	4572.5	2841.3	2561.0	696.2	410.2
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-SA0C-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9	12484.9
2.5°	12469.8	12481.1	12468.0	12392.7	12328.7	12225.2	12166.9	12086.0	12061.5	12050.2	12080.3
5°	12516.9	12520.6	12409.6	12212.1	11990.0	11728.5	11540.3	11308.8	11199.7	11152.7	11182.8
7.5°	12560.2	12543.2	12300.5	11922.3	11512.1	11056.7	10652.1	10281.5	10065.1	9976.6	9984.2
10°	12565.8	12494.3	12104.8	11519.6	10883.6	10215.6	9594.6	9022.6	8661.3	8426.1	8497.6
12.5°	12507.5	12387.0	11816.9	10998.4	10115.9	9205.1	8365.9	7507.9	6992.3	6753.3	6760.8
15°	12462.3	12244.0	11463.1	10384.9	9199.5	7993.3	6847.4	5838.8	5289.4	5044.8	4930.0
17.5°	12424.7	12089.7	11052.9	9694.4	8117.5	6587.7	5210.4	4310.9	4009.8	3938.3	3908.2
20°	12372.0	11926.0	10595.7	8894.7	6885.0	5014.7	3804.7	3360.7	3362.5	3445.3	3456.6
22.5°	12298.6	11739.8	10108.3	7997.1	5562.2	3652.3	2982.5	2854.5	2984.3	3142.4	3170.6
25°	12189.5	11519.6	9566.4	7005.5	4241.3	2807.5	2547.8	2542.1	2700.2	2865.8	2890.2
27.5°	12035.2	11231.7	8964.3	5940.4	3125.5	2386.0	2282.5	2322.0	2438.6	2559.1	2568.5
30°	11828.2	10896.8	8300.1	4817.1	2449.9	2124.4	2113.1	2148.9	2220.4	2305.0	2312.6
32.5°	11600.5	10556.2	7590.7	3729.5	2098.1	1983.3	1994.6	2011.5	2045.4	2079.2	2086.8
35°	11393.5	10208.1	6864.3	2833.8	1930.6	1891.1	1883.6	1879.8	1883.6	1872.3	1874.1
37.5°	11259.9	9920.2	6107.9	2256.1	1834.6	1810.2	1787.6	1759.4	1727.4	1708.6	1712.3
40°	11211.0	9705.7	5342.1	1949.4	1755.6	1738.7	1695.4	1635.2	1597.5	1586.2	1586.2
42.5°	11342.7	9594.6	4602.6	1795.1	1689.7	1661.5	1590.0	1520.4	1492.2	1490.3	1488.4
45°	11745.4	9639.8	3898.8	1710.4	1629.5	1575.0	1480.9	1422.5	1403.7	1407.5	1405.6
47.5°	12468.0	9923.9	3296.7	1654.0	1569.3	1497.8	1392.4	1345.4	1322.8	1322.8	1324.7
50°	13696.7	10588.2	2816.9	1606.9	1518.5	1426.3	1328.5	1270.1	1240.0	1238.1	1238.1
52.5°	15486.2	11777.4	2517.7	1567.4	1462.1	1362.3	1264.5	1191.1	1155.3	1147.8	1144.1
55°	17729.1	13482.2	2434.9	1541.1	1386.8	1292.7	1187.3	1113.9	1074.4	1057.5	1055.6
57.5°	20237.4	15555.8	2598.6	1509.1	1309.6	1209.9	1102.7	1033.0	991.6	970.9	969.1
60°	22775.8	17819.4	3266.6	1463.9	1245.7	1119.6	1016.1	952.1	910.7	888.1	884.4
62.5°	25317.9	20205.4	4630.8	1460.2	1200.5	1033.0	927.7	873.1	833.6	809.1	803.5
65°	28185.6	22817.2	6181.3	1559.9	1185.5	954.0	837.3	794.1	760.2	737.6	735.7
67.5°	31478.5	25765.7	6032.6	1765.0	1236.3	882.5	752.7	718.8	694.3	675.5	673.6
70°	33023.3	25304.7	3750.2	1909.9	1307.8	812.9	671.8	647.3	628.5	615.3	609.7
71°	32376.1	24027.1	3144.3	1893.0	1300.2	782.8	639.8	621.0	602.1	590.8	585.2
72.5°	30611.0	21912.1	2623.1	1761.2	1215.6	728.2	598.4	579.6	562.6	549.4	545.7
75°	27468.7	19569.4	2099.9	1407.5	969.1	615.3	525.0	504.3	491.1	483.6	476.1
77.5°	20192.2	13965.8	1623.9	1112.1	713.2	502.4	447.8	432.8	419.6	408.3	402.7
80°	7735.6	5409.8	1093.3	829.8	523.1	397.0	361.3	353.8	340.6	333.1	333.1
82.5°	2083.0	1616.4	583.3	502.4	350.0	289.8	276.6	272.8	261.6	246.5	248.4
85°	843.0	713.2	327.4	276.6	214.5	171.2	186.3	188.2	175.0	156.2	158.1
87.5°	370.7	302.9	182.5	122.3	94.1	65.9	84.7	84.7	77.1	64.0	58.3
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
 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

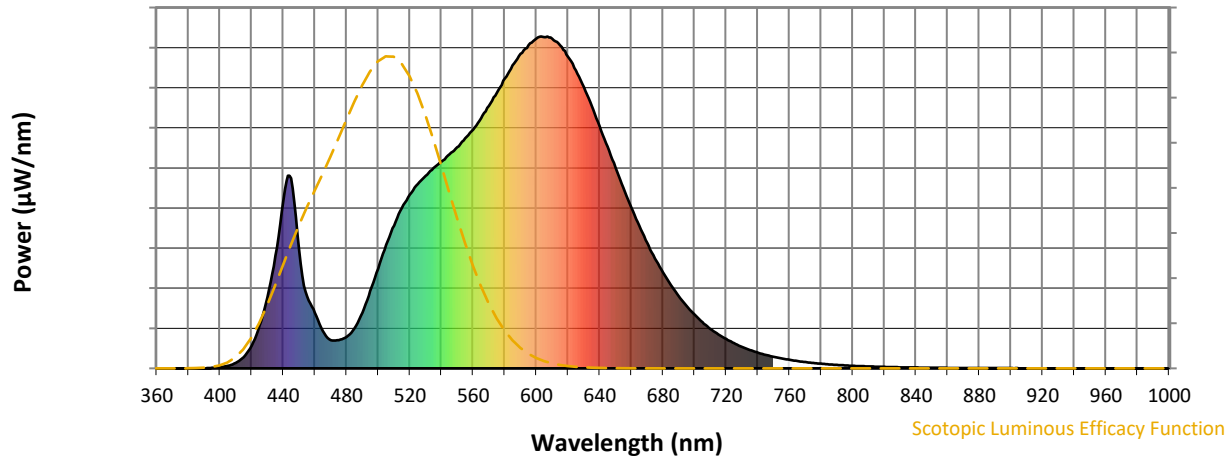


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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 $\text{W}^\wedge/\text{nm}$	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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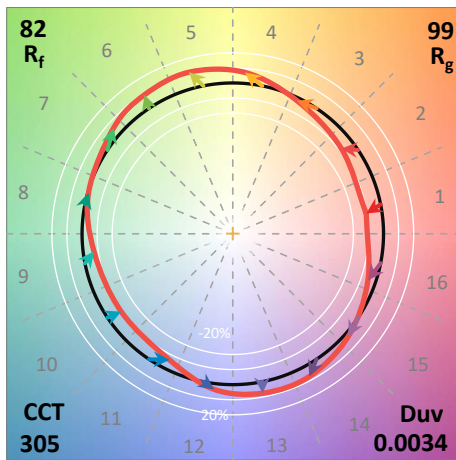
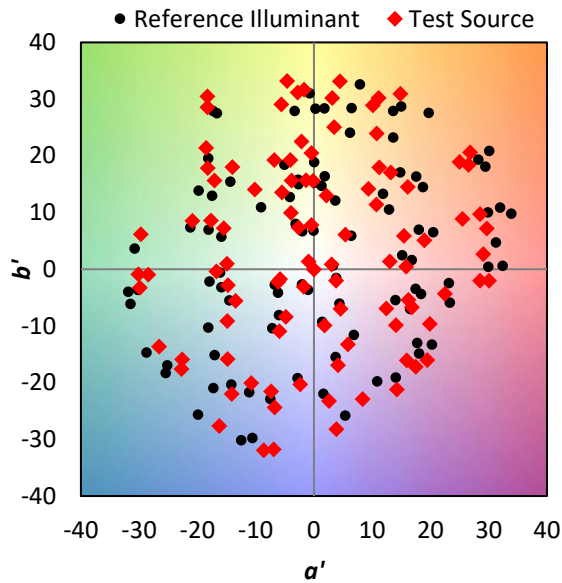
TM-30-18

Summary

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



Color Vector Graphics

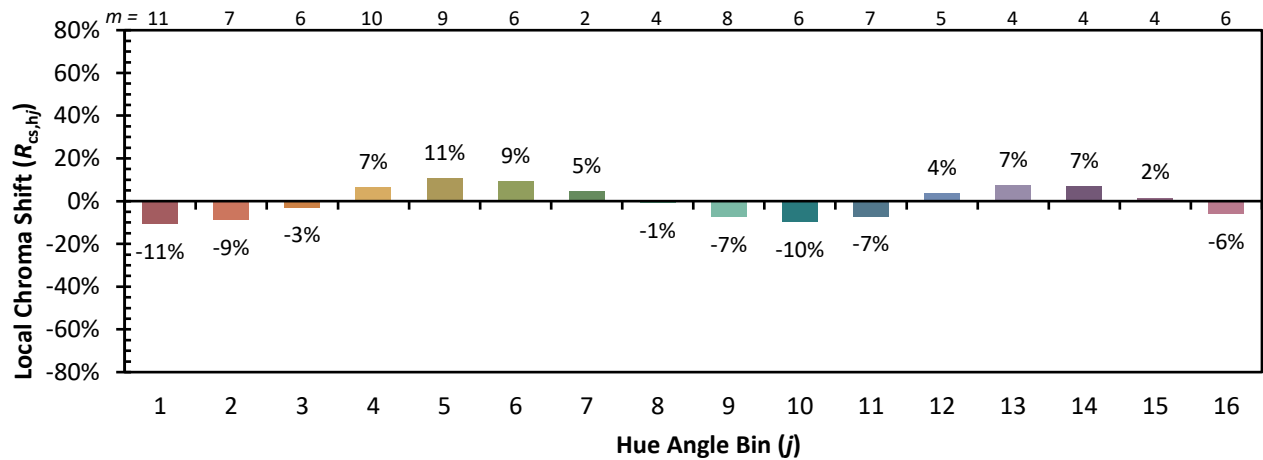


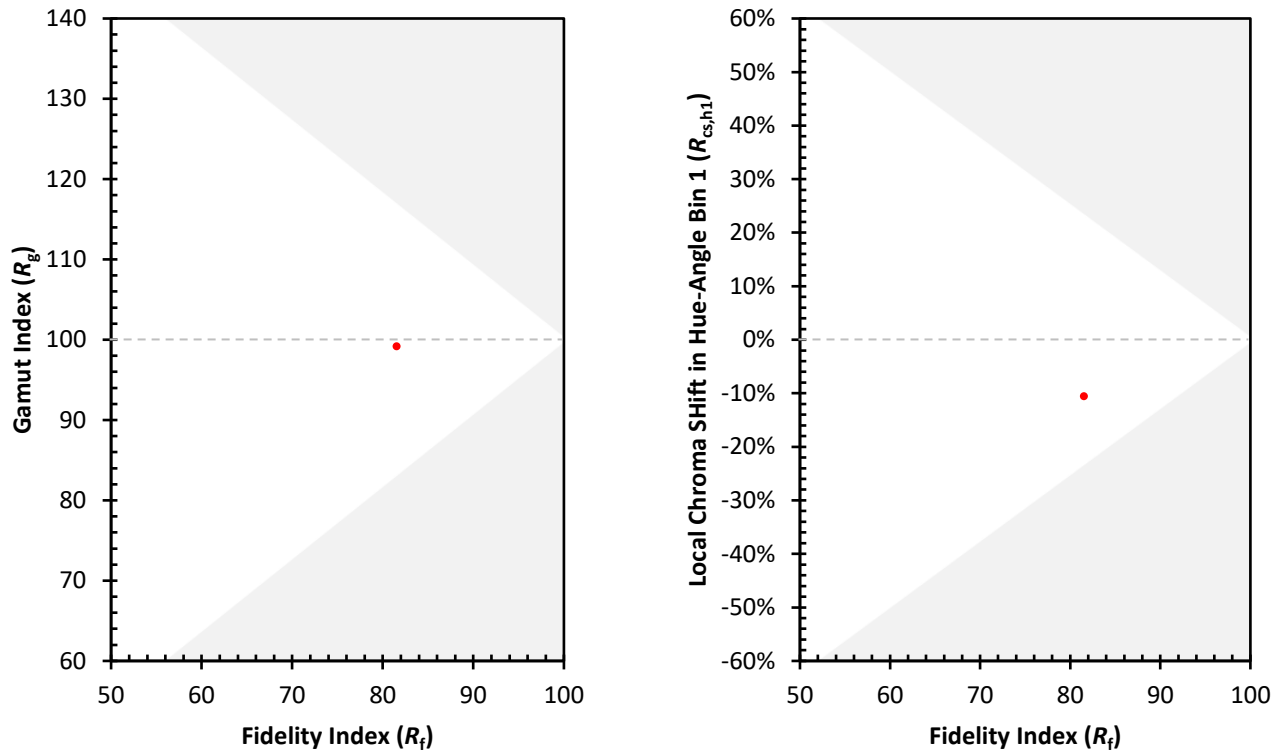
Individual Sample Fidelity Index ($R_{f,i}$)

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)