

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: P318230

Luminaire Tested: **GLEON-SA6A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21736 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

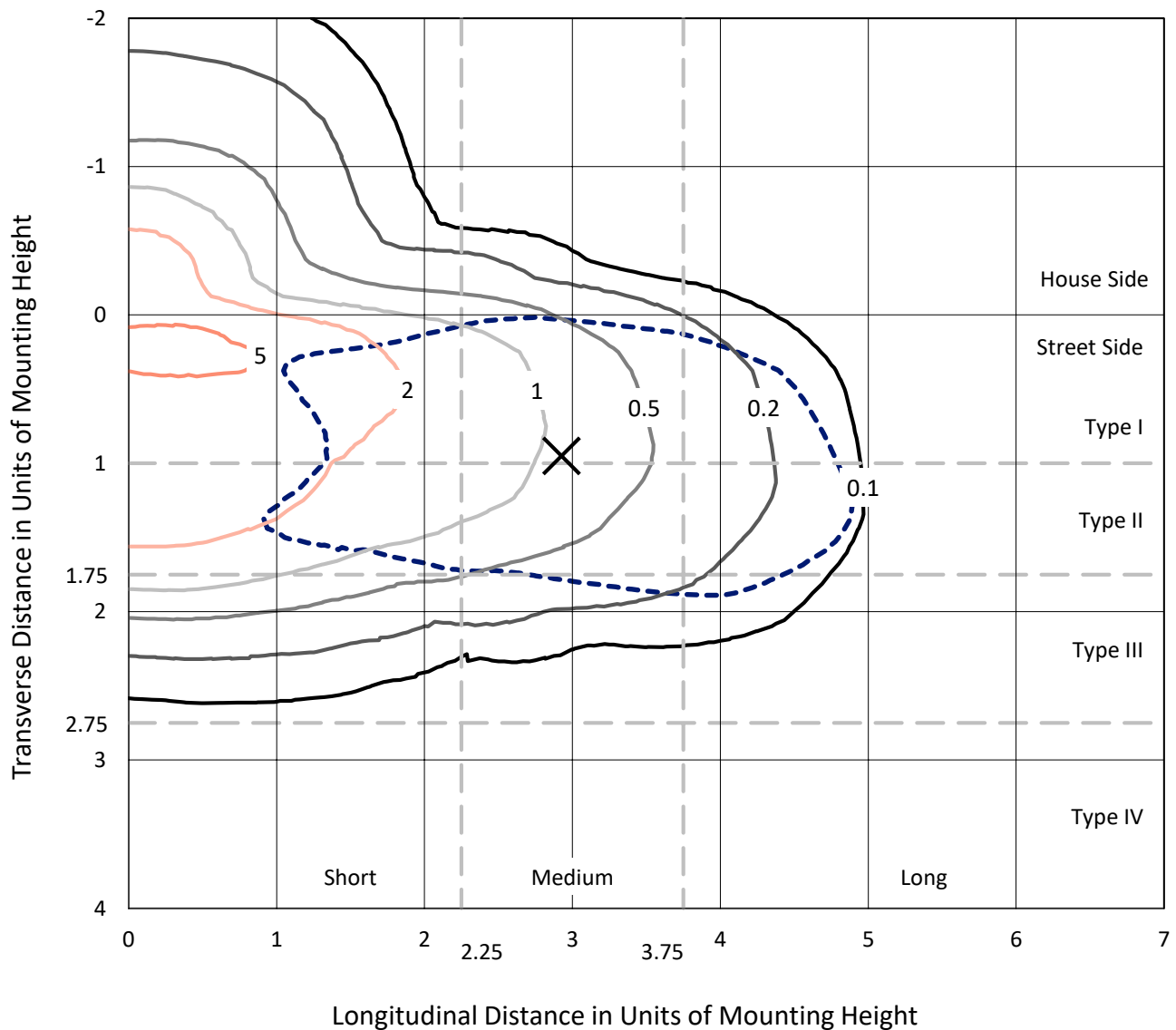
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

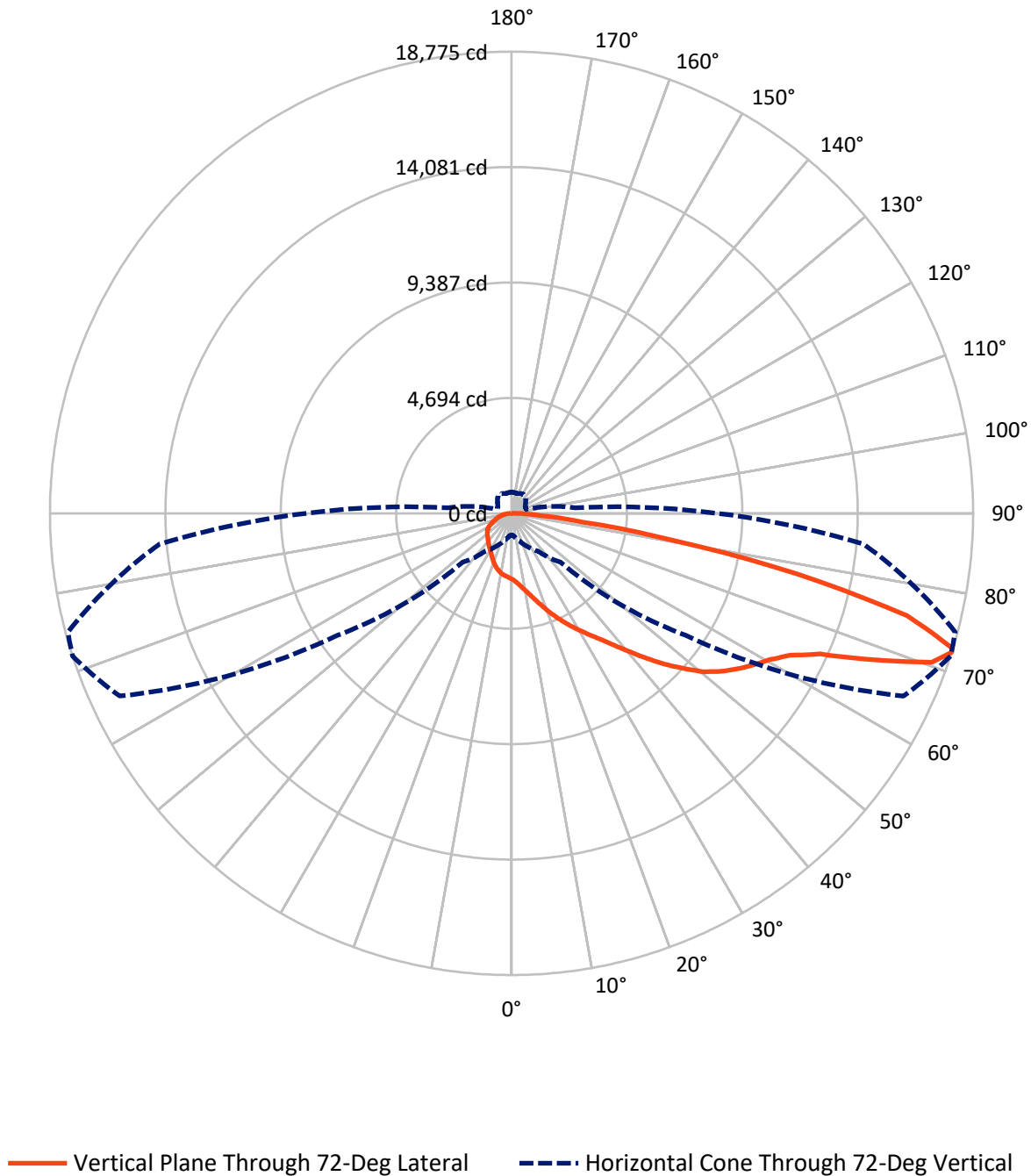
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	4032.2	0.0	4032.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17703.8	0.0	17703.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	21736.0	0.0	21736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	1.2
10°-20°	865.9	4.0
20°-30°	1517.3	7.0
30°-40°	2249.7	10.4
40°-50°	3290.4	15.1
50°-60°	4527.5	20.8
60°-70°	5040.5	23.2
70°-80°	3415.4	15.7
80°-90°	561.4	2.6
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°	21736.0	100.0
0°-180°	21736.0	100.0

Coefficient of Utilization



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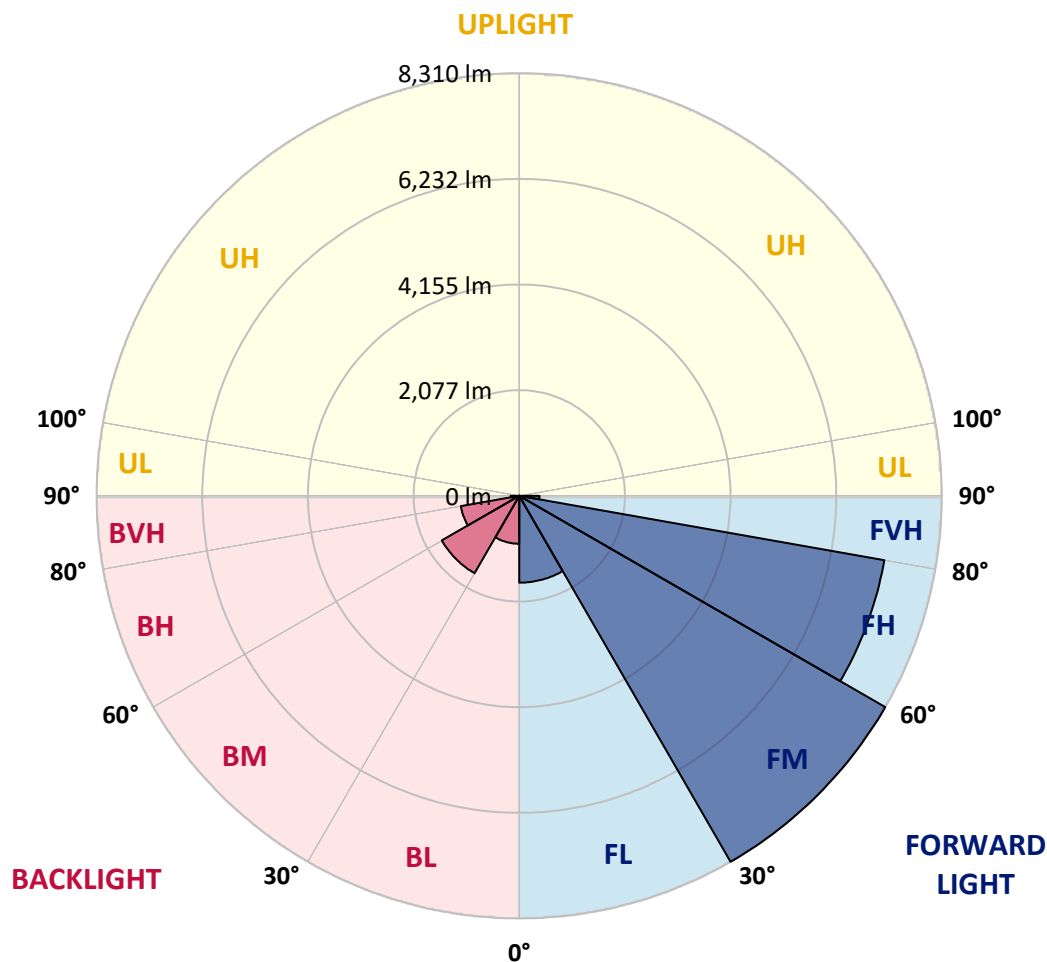
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1708.6	7.9			
FM	(30°-60°)	8309.9	38.2			
FH	(60°-80°)	7289.3	33.5			G3/7500
FVH	(80°-90°)	396.0	1.8			G3/500
BL	(0°-30°)	942.6	4.3	B2/1000		
BM	(30°-60°)	1757.7	8.1	B2/2500		
BH	(60°-80°)	1166.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	165.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
2.5°	2954.0	2949.5	2933.8	2933.8	2903.9	2878.4	2830.5	2798.3	2760.2	2746.7	2701.8
5°	3239.9	3241.4	3221.9	3208.5	3164.3	3110.4	3028.8	2954.8	2880.7	2850.7	2758.7
7.5°	3480.1	3477.1	3471.9	3460.7	3419.5	3364.1	3254.1	3144.1	3034.8	2989.9	2831.3
10°	3634.3	3641.1	3645.5	3650.8	3633.6	3593.9	3489.9	3355.9	3213.0	3151.6	2918.1
12.5°	3712.1	3724.1	3745.1	3781.0	3809.4	3805.0	3729.4	3587.2	3417.3	3340.2	3026.6
15°	3757.8	3773.5	3806.5	3870.8	3950.9	3996.5	3976.3	3847.6	3658.3	3563.2	3159.1
17.5°	3786.2	3799.0	3849.9	3935.9	4054.9	4176.2	4229.3	4121.5	3930.7	3822.2	3311.0
20°	3805.7	3815.4	3879.0	3980.1	4134.3	4327.3	4475.5	4448.6	4230.8	4090.1	3469.7
22.5°	3849.1	3857.3	3918.0	4019.7	4190.4	4439.6	4712.8	4753.2	4547.4	4388.0	3639.6
25°	3970.4	3970.4	4021.2	4092.3	4252.5	4536.9	4913.4	5092.2	4870.7	4685.1	3796.7
27.5°	4201.6	4199.4	4218.1	4242.8	4364.0	4635.7	5092.2	5391.6	5206.0	5003.2	3949.4
30°	4475.5	4490.5	4492.7	4480.8	4537.7	4759.2	5257.6	5707.4	5543.5	5325.0	4105.8
32.5°	4828.0	4837.8	4826.5	4786.9	4778.6	4934.3	5420.0	6038.2	5908.8	5661.0	4248.8
35°	5275.6	5256.9	5221.7	5140.9	5063.8	5168.6	5605.6	6369.0	6318.9	6067.4	4445.6
37.5°	5755.3	5756.1	5712.7	5529.3	5423.0	5467.9	5861.6	6744.0	6815.1	6550.9	4697.8
40°	6140.0	6160.2	6187.2	5946.2	5808.5	5870.6	6187.2	7178.8	7401.8	7124.2	5026.4
42.5°	6408.7	6431.9	6508.2	6357.1	6214.1	6329.4	6570.4	7642.8	8060.5	7785.8	5411.1
45°	6693.1	6705.8	6759.7	6694.6	6603.3	6863.0	7002.2	8123.3	8757.2	8490.8	5841.4
47.5°	6992.5	7005.9	7061.3	7017.9	6970.0	7361.4	7452.7	8576.1	9424.8	9265.4	6300.9
50°	7362.2	7371.2	7423.6	7345.0	7359.9	7737.1	7855.4	8991.5	10124.6	9961.4	6762.0
52.5°	7866.6	7868.9	7941.5	7870.4	7800.0	8012.6	8201.9	9382.9	10673.2	10596.1	7223.0
55°	8261.8	8285.7	8523.7	8508.8	8468.3	8262.5	8491.5	9755.6	11162.6	11199.3	7712.4
57.5°	8009.6	8103.1	8585.1	8924.9	9255.7	8884.5	8883.0	10175.5	11617.7	11791.3	8250.6
60°	7014.9	7142.1	7852.4	8606.1	9641.1	9966.7	9695.7	10688.1	12077.2	12378.1	8924.9
62.5°	5009.9	5219.5	6181.9	7385.4	9112.7	10683.7	11349.7	11501.7	12702.1	13057.6	9801.3
65°	2532.6	2691.3	3498.1	4947.8	7280.6	10215.1	13147.4	13282.9	13788.1	14103.9	11150.7
67.5°	1538.7	1598.6	1992.3	2751.9	4463.6	7957.2	13734.2	16251.9	15889.6	16057.3	13074.9
70°	1133.9	1178.0	1423.5	1827.6	2567.1	4669.4	11933.5	18370.7	18132.7	18113.9	14496.8
72°	883.1	915.3	1132.4	1476.6	1877.0	2801.3	8649.5	17588.6	18774.8	18680.5	14366.6
72.5°	837.5	865.9	1063.5	1389.8	1773.7	2539.4	7776.8	17060.9	18728.4	18685.7	14198.2
75°	659.4	679.6	787.3	1074.7	1388.3	1440.7	4261.5	13221.5	16614.1	17304.9	12770.2
77.5°	545.6	548.6	605.5	782.1	1082.2	1018.6	2093.3	9173.4	11896.8	12656.5	9046.1
80°	444.6	448.3	475.2	548.6	818.8	753.7	993.9	5274.8	6660.9	6669.1	4301.9
82.5°	354.0	354.7	384.7	401.2	588.3	538.9	569.5	2476.5	2910.6	2799.8	1546.2
85°	249.2	244.0	375.7	329.3	384.7	345.8	314.3	980.4	1203.5	1151.1	484.2
87.5°	83.1	86.1	166.9	213.3	224.5	196.1	140.0	375.7	454.3	450.5	153.4
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°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
2.5°	2687.6	2663.6	2628.4	2589.5	2558.8	2527.4	2504.2	2492.2	2478.8	2467.5	2481.0
5°	2716.0	2671.1	2596.3	2522.9	2469.0	2421.1	2386.7	2368.7	2352.3	2341.0	2342.5
7.5°	2762.4	2689.8	2564.1	2457.1	2382.2	2330.6	2295.4	2283.4	2272.9	2269.9	2273.7
10°	2811.8	2704.8	2521.4	2379.2	2293.9	2251.2	2235.5	2243.8	2251.2	2258.0	2265.5
12.5°	2867.9	2718.3	2459.3	2287.9	2215.3	2198.9	2214.6	2250.5	2276.7	2292.4	2302.1
15°	2941.3	2730.2	2387.5	2196.6	2148.0	2166.7	2219.8	2281.9	2327.6	2356.8	2361.3
17.5°	3008.6	2729.5	2295.4	2104.5	2093.3	2148.0	2228.0	2315.6	2377.0	2418.1	2426.4
20°	3078.2	2709.3	2188.4	2014.7	2037.9	2127.8	2231.8	2337.3	2411.4	2459.3	2470.5
22.5°	3143.4	2674.1	2070.9	1933.2	1991.5	2100.8	2217.6	2324.6	2398.7	2437.6	2449.6
25°	3187.5	2612.7	1951.9	1864.3	1950.4	2067.9	2171.2	2257.2	2312.6	2332.1	2335.1
27.5°	3210.0	2532.6	1839.6	1804.4	1907.7	2014.0	2085.1	2127.8	2143.5	2142.0	2139.0
30°	3213.0	2427.1	1743.1	1755.8	1858.3	1934.7	1968.3	1960.1	1939.9	1905.5	1908.5
32.5°	3203.2	2308.1	1662.2	1709.4	1795.5	1838.1	1839.6	1799.9	1746.1	1691.4	1676.5
35°	3206.2	2191.4	1591.1	1657.0	1719.1	1737.8	1720.6	1662.2	1588.9	1518.5	1503.6
37.5°	3239.2	2089.6	1529.8	1596.4	1634.5	1639.0	1614.3	1553.0	1499.1	1430.2	1424.2
40°	3317.7	2017.0	1471.4	1528.3	1550.0	1552.2	1517.0	1473.6	1478.1	1441.5	1440.7
42.5°	3459.2	1985.6	1419.7	1457.2	1470.6	1475.1	1448.2	1420.5	1459.4	1435.5	1427.2
45°	3641.8	1993.0	1376.3	1387.6	1412.3	1433.2	1416.8	1383.1	1398.0	1294.0	1259.6
47.5°	3852.9	2040.9	1341.9	1327.7	1370.4	1410.0	1384.6	1333.7	1280.5	1177.3	1157.8
50°	4099.8	2115.0	1310.5	1268.6	1324.7	1378.6	1353.1	1280.5	1200.5	1150.3	1143.6
52.5°	4357.3	2205.6	1279.0	1203.5	1267.1	1354.6	1341.9	1268.6	1169.8	1120.4	1111.4
55°	4649.2	2296.9	1239.4	1127.9	1205.0	1343.4	1336.7	1225.2	1146.6	1118.9	1112.1
57.5°	5012.2	2400.9	1187.0	1049.3	1146.6	1303.0	1282.0	1199.0	1122.6	1101.7	1099.4
60°	5485.2	2554.3	1111.4	965.5	1075.5	1240.9	1236.4	1160.8	1084.5	1069.5	1066.5
62.5°	6194.7	2808.1	1007.4	881.6	996.1	1135.3	1176.5	1109.2	1044.0	1043.3	1044.8
65°	7294.8	3189.8	894.4	808.3	916.1	1046.3	1106.9	1056.0	1002.9	1017.8	1020.1
67.5°	8570.1	3506.3	783.6	736.4	834.5	961.7	1044.0	1002.9	948.2	987.2	987.9
70°	8994.5	3223.4	686.3	665.3	749.9	880.1	975.9	944.5	889.1	928.0	924.3
72°	8370.3	2602.2	623.4	611.5	686.3	812.8	915.3	889.9	835.2	861.4	851.7
72.5°	8173.5	2481.0	607.7	598.0	669.1	795.6	899.6	876.4	821.8	844.2	835.2
75°	7291.1	2154.7	522.4	524.6	583.8	711.7	811.3	803.8	747.7	749.9	746.9
77.5°	5288.3	1579.9	440.1	455.0	496.9	625.7	722.2	717.7	656.4	645.1	642.9
80°	2454.1	806.0	358.5	365.2	408.6	523.1	615.9	610.0	560.6	546.3	538.1
82.5°	840.5	383.2	269.4	273.9	316.6	421.4	534.4	530.6	489.5	461.8	444.6
85°	300.1	190.8	188.6	184.1	226.0	331.5	465.5	445.3	384.7	327.8	326.3
87.5°	97.3	81.6	97.3	96.5	131.7	224.5	338.3	288.1	279.2	232.0	227.5
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

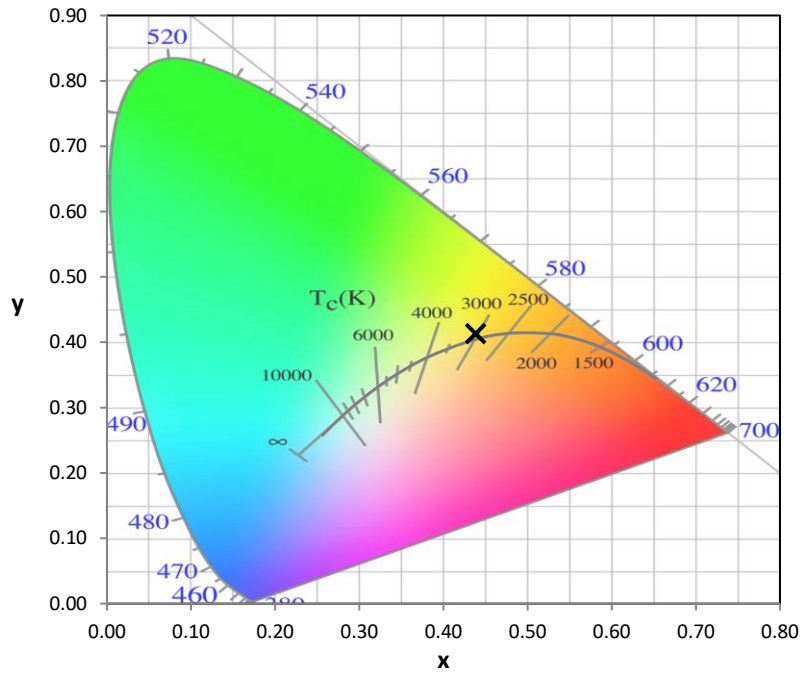
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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



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Photopic Flux vs. Wavelength

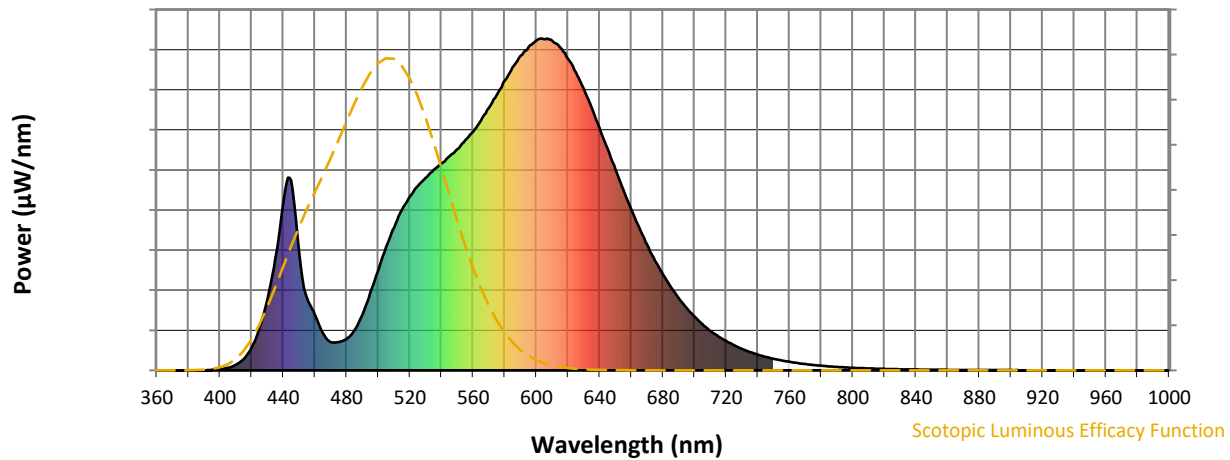


Photopic Lumens: NR

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



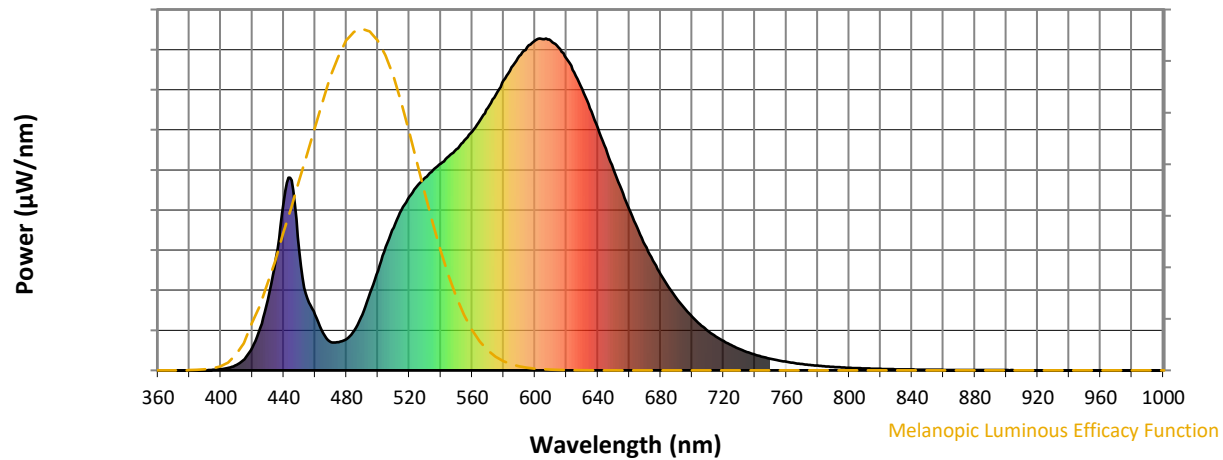
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power 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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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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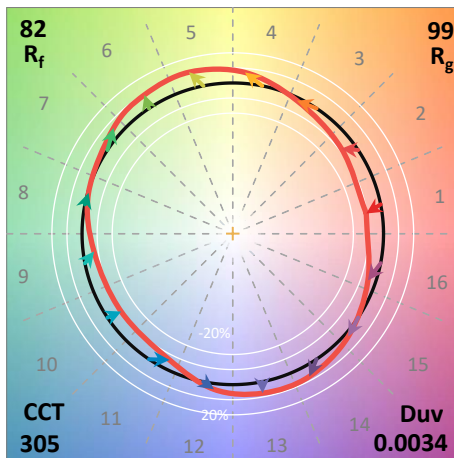
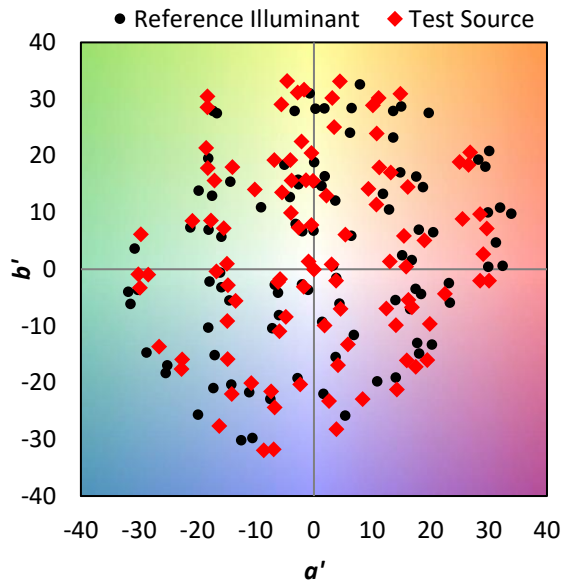
TM-30-18

Summary

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



Color Vector Graphics

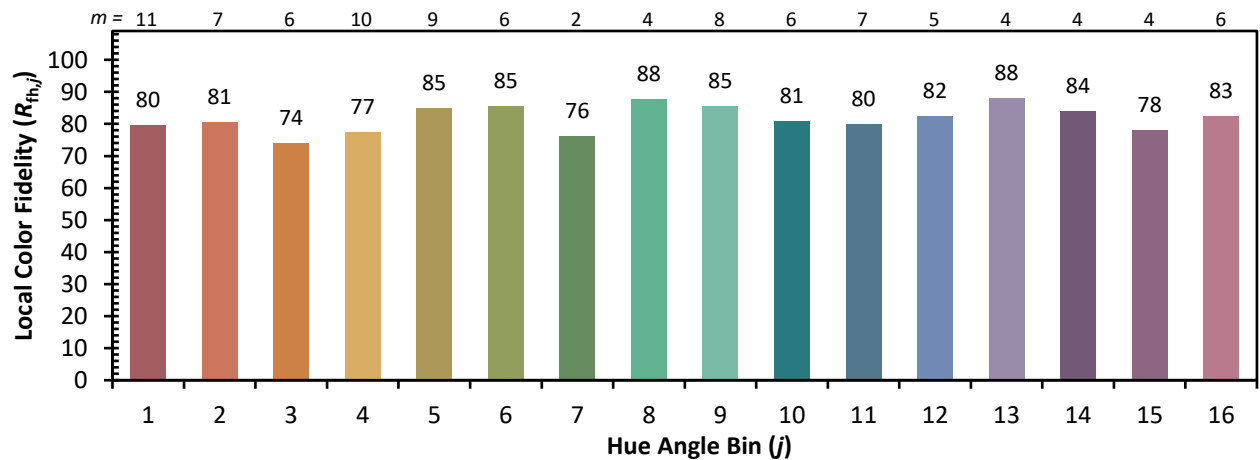
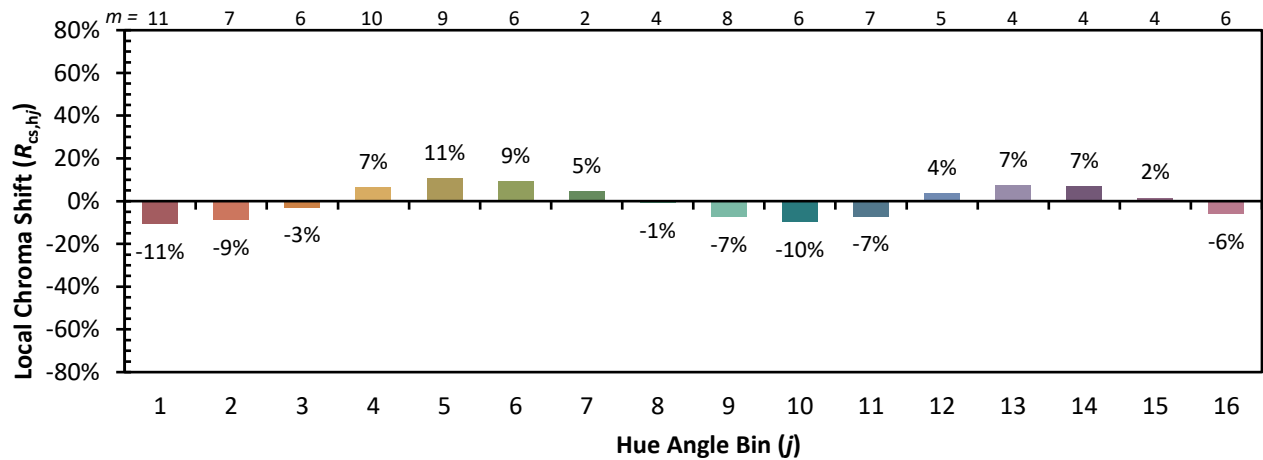


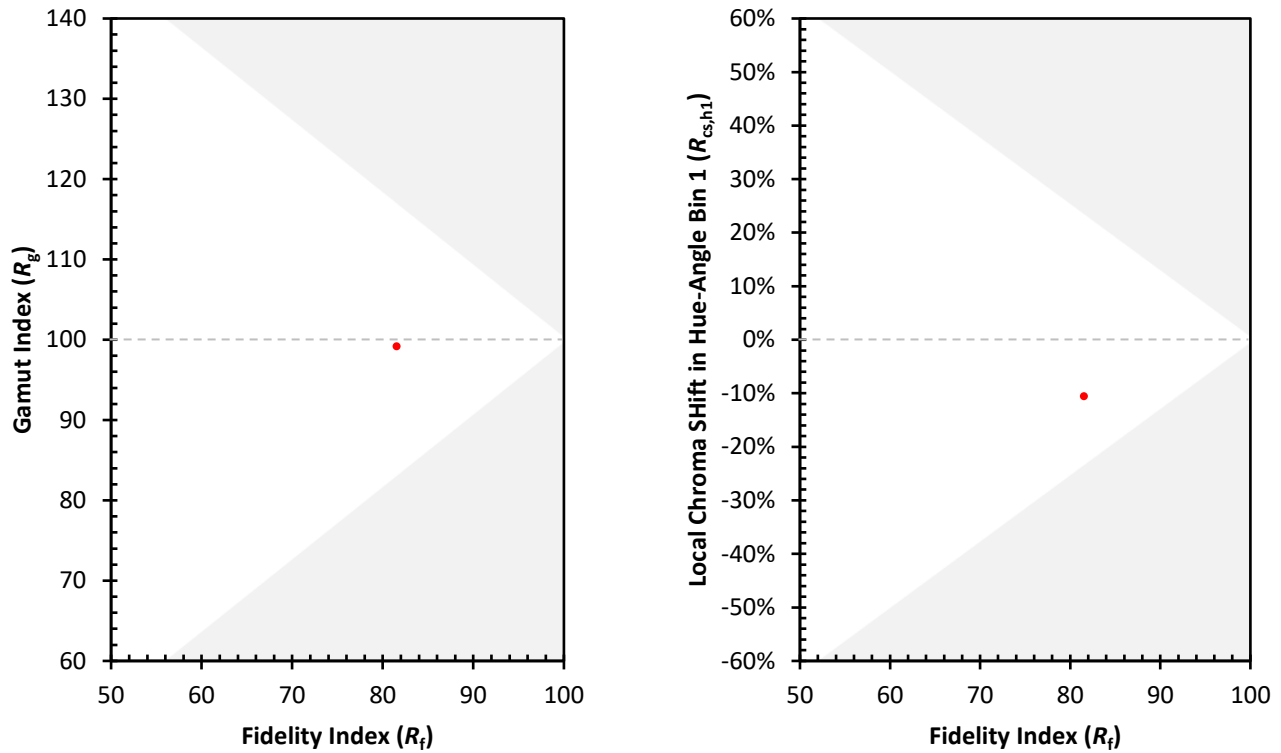
Individual Sample Fidelity Index ($R_{f,i}$)

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)