

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P318234

Luminaire Tested: **GLEON-SA0A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318234
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-SA0A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 35970 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

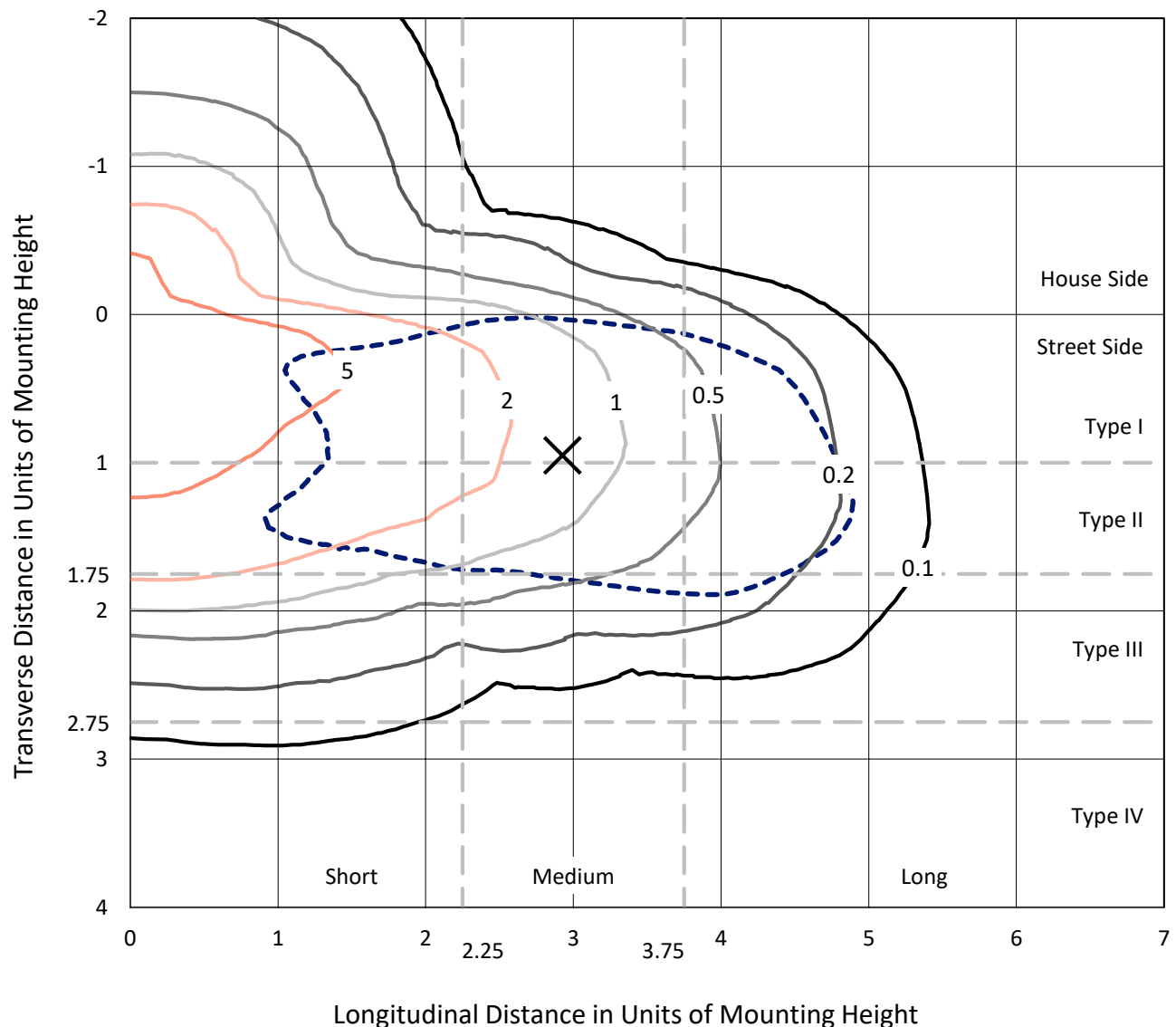
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318234
 CATALOG NUMBER: GLEON-SA0A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

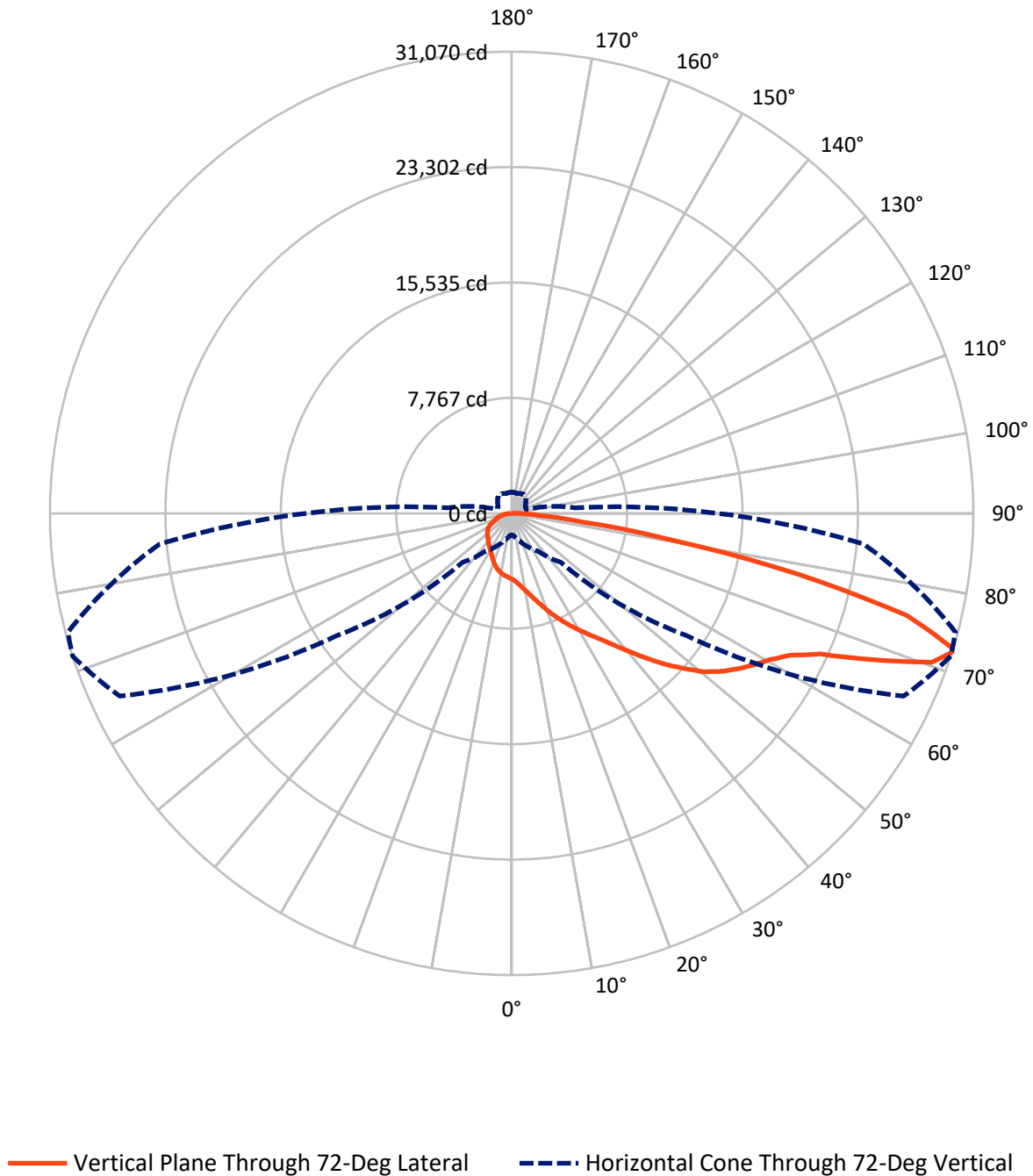
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P318234
CATALOG NUMBER: GLEON-SA0A-830-U-T2

Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA0A-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6672.7	0.0	6672.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29297.3	0.0	29297.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	35970.0	0.0	35970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	1.2
10°-20°	1432.9	4.0
20°-30°	2510.9	7.0
30°-40°	3722.9	10.4
40°-50°	5445.1	15.1
50°-60°	7492.4	20.8
60°-70°	8341.3	23.2
70°-80°	5652.0	15.7
80°-90°	929.0	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°	35970.0	100.0
0°-180°	35970.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318234

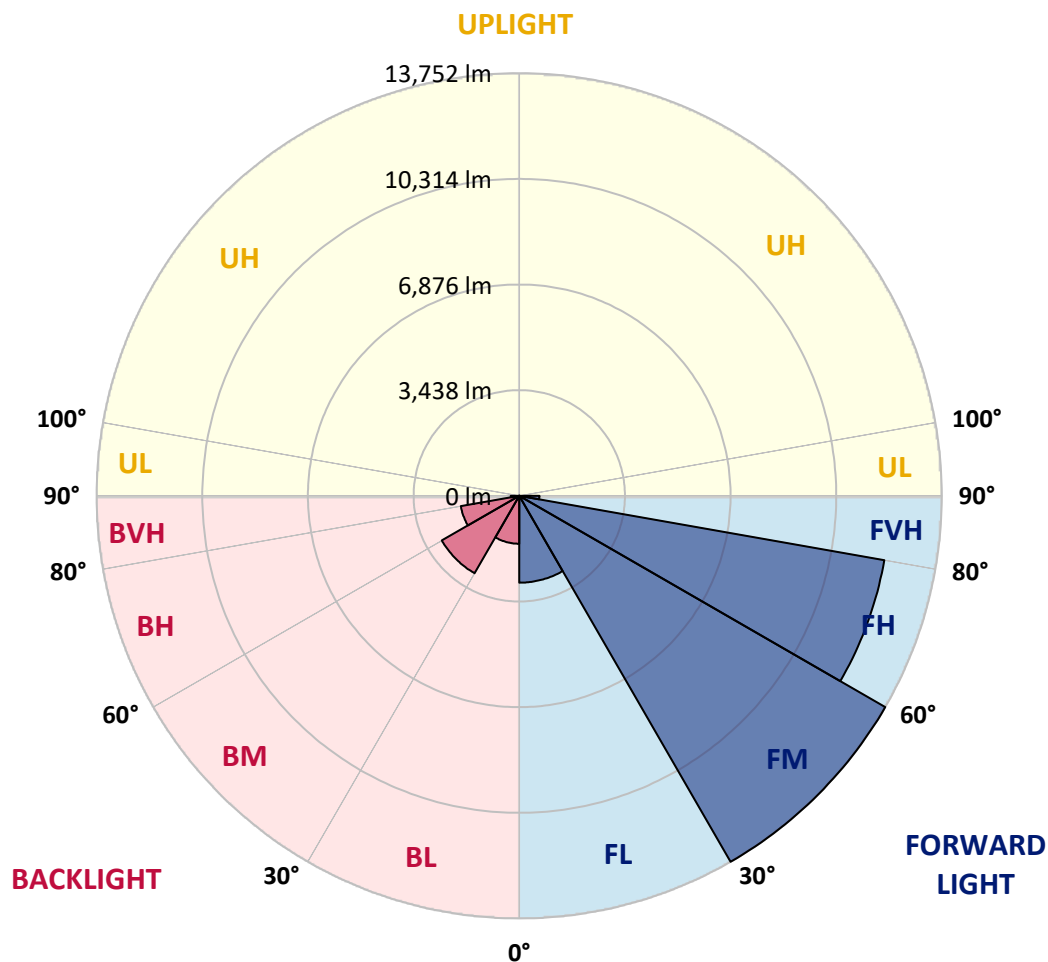
CATALOG NUMBER: GLEON-SA0A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2827.5	7.9			
FM	(30°-60°)	13751.8	38.2			
FH	(60°-80°)	12062.8	33.5			G5
FVH	(80°-90°)	655.3	1.8			G4/750
BL	(0°-30°)	1559.8	4.3	B3/2500		
BM	(30°-60°)	2908.7	8.1	B3/5000		
BH	(60°-80°)	1930.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	273.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P318234

CATALOG NUMBER: GLEON-SA0A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2
2.5°	4888.5	4881.0	4855.0	4855.0	4805.5	4763.4	4684.1	4630.8	4567.7	4545.4	4471.1
5°	5361.6	5364.1	5331.8	5309.6	5236.5	5147.3	5012.3	4889.7	4767.1	4717.5	4565.2
7.5°	5759.1	5754.2	5745.5	5726.9	5658.8	5567.2	5385.1	5203.0	5022.2	4947.9	4685.3
10°	6014.3	6025.4	6032.9	6041.5	6013.0	5947.4	5775.2	5553.5	5317.0	5215.4	4829.0
12.5°	6143.1	6162.9	6197.6	6257.0	6304.1	6296.7	6171.6	5936.2	5655.1	5527.5	5008.6
15°	6218.6	6244.6	6299.1	6405.6	6538.2	6613.7	6580.3	6367.3	6053.9	5896.6	5227.8
17.5°	6265.7	6286.8	6371.0	6513.4	6710.3	6911.0	6998.9	6820.6	6504.7	6325.1	5479.2
20°	6297.9	6314.0	6419.3	6586.5	6841.6	7161.1	7406.4	7361.8	7001.4	6768.5	5741.8
22.5°	6369.7	6383.4	6483.7	6652.1	6934.5	7346.9	7799.0	7865.9	7525.3	7261.5	6022.9
25°	6570.4	6570.4	6654.6	6772.3	7037.3	7507.9	8130.9	8426.9	8060.3	7753.2	6283.0
27.5°	6953.1	6949.4	6980.3	7021.2	7221.8	7671.4	8426.9	8922.3	8615.2	8279.5	6535.7
30°	7406.4	7431.1	7434.9	7415.0	7509.2	7875.8	8700.6	9445.0	9173.8	8812.1	6794.5
32.5°	7989.7	8005.8	7987.2	7921.6	7908.0	8165.6	8969.4	9992.4	9778.2	9368.2	7031.1
35°	8730.4	8699.4	8641.2	8507.4	8379.9	8553.3	9276.5	10539.8	10456.9	10040.7	7356.8
37.5°	9524.3	9525.5	9453.7	9150.2	8974.3	9048.7	9700.1	11160.3	11278.0	10840.8	7774.2
40°	10160.9	10194.3	10238.9	9840.1	9612.2	9715.0	10238.9	11879.9	12249.0	11789.5	8317.9
42.5°	10605.5	10643.9	10770.2	10520.0	10283.5	10474.2	10873.0	12647.8	13338.9	12884.4	8954.5
45°	11076.1	11097.2	11186.4	11078.6	10927.5	11357.3	11587.6	13442.9	14492.0	14051.1	9666.7
47.5°	11571.5	11593.8	11685.5	11613.6	11534.4	12182.1	12333.2	14192.3	15596.7	15332.9	10427.1
50°	12183.4	12198.2	12284.9	12154.9	12179.7	12803.9	12999.6	14879.6	16754.8	16484.8	11190.1
52.5°	13018.1	13021.8	13142.0	13024.3	12907.9	13259.6	13573.0	15527.4	17662.6	17535.0	11953.0
55°	13672.1	13711.7	14105.6	14080.8	14013.9	13673.3	14052.3	16144.2	18472.6	18533.3	12763.0
57.5°	13254.7	13409.5	14207.1	14769.4	15316.8	14702.5	14700.0	16839.0	19225.6	19513.0	13653.5
60°	11608.7	11819.2	12994.6	14241.8	15954.7	16493.4	16045.1	17687.4	19986.1	20484.0	14769.4
62.5°	8290.7	8637.5	10230.2	12221.8	15080.3	17679.9	18782.2	19033.6	21020.2	21608.5	16219.7
65°	4191.2	4453.7	5788.9	8187.9	12048.4	16904.6	21757.2	21981.3	22817.3	23340.0	18452.8
67.5°	2546.4	2645.5	3297.0	4554.1	7386.6	13168.0	22728.2	26894.6	26295.1	26572.5	21637.0
70°	1876.4	1949.4	2355.7	3024.5	4248.1	7727.2	19748.3	30400.8	30007.0	29976.0	23990.2
72°	1461.5	1514.7	1873.9	2443.6	3106.2	4635.8	14313.6	29106.6	31069.6	30913.6	23774.7
72.5°	1385.9	1433.0	1759.9	2299.9	2935.3	4202.3	12869.5	28233.4	30992.8	30922.2	23496.1
75°	1091.1	1124.6	1302.9	1778.5	2297.5	2384.2	7052.2	21879.8	27494.0	28637.2	21132.9
77.5°	902.9	907.8	1002.0	1294.3	1790.9	1685.6	3464.2	15180.6	19687.6	20944.7	14970.0
80°	735.7	741.9	786.5	907.8	1354.9	1247.2	1644.8	8729.1	11022.9	11036.5	7119.0
82.5°	585.8	587.1	636.6	663.8	973.5	891.7	942.5	4098.3	4816.6	4633.3	2558.8
85°	412.4	403.8	621.7	545.0	636.6	572.2	520.2	1622.5	1991.5	1904.9	801.3
87.5°	137.5	142.4	276.2	353.0	371.6	324.5	231.6	621.7	751.8	745.6	253.9
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: P318234

CATALOG NUMBER: GLEON-SA0A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2	4425.2
2.5°	4447.5	4407.9	4349.7	4285.3	4234.5	4182.5	4144.1	4124.3	4102.0	4083.4	4105.7
5°	4494.6	4420.3	4296.4	4175.1	4085.9	4006.6	3949.7	3919.9	3892.7	3874.1	3876.6
7.5°	4571.4	4451.3	4243.2	4066.1	3942.2	3856.8	3798.6	3778.7	3761.4	3756.4	3762.6
10°	4653.1	4476.0	4172.6	3937.3	3796.1	3725.5	3699.5	3713.1	3725.5	3736.6	3749.0
12.5°	4746.0	4498.3	4069.8	3786.2	3666.0	3638.8	3664.8	3724.2	3767.6	3793.6	3809.7
15°	4867.4	4518.1	3950.9	3635.1	3554.6	3585.5	3673.5	3776.3	3851.8	3900.1	3907.5
17.5°	4978.9	4516.9	3798.6	3482.7	3464.2	3554.6	3687.1	3832.0	3933.6	4001.7	4015.3
20°	5094.1	4483.5	3621.4	3334.1	3372.5	3521.1	3693.3	3867.9	3990.5	4069.8	4088.4
22.5°	5201.8	4425.2	3427.0	3199.1	3295.7	3476.5	3669.7	3846.9	3969.5	4033.9	4053.7
25°	5274.9	4323.7	3230.1	3085.2	3227.6	3422.0	3593.0	3735.4	3827.0	3859.2	3864.2
27.5°	5312.0	4191.2	3044.3	2986.1	3157.0	3332.9	3450.5	3521.1	3547.1	3544.7	3539.7
30°	5317.0	4016.5	2884.5	2905.6	3075.3	3201.6	3257.3	3243.7	3210.3	3153.3	3158.2
32.5°	5300.9	3819.6	2750.8	2828.8	2971.2	3041.8	3044.3	2978.7	2889.5	2799.1	2774.3
35°	5305.8	3626.4	2633.1	2742.1	2844.9	2875.9	2847.4	2750.8	2629.4	2513.0	2488.2
37.5°	5360.3	3458.0	2531.5	2641.8	2704.9	2712.4	2671.5	2569.9	2480.8	2366.8	2356.9
40°	5490.4	3337.8	2434.9	2529.1	2565.0	2568.7	2510.5	2438.7	2446.1	2385.4	2384.2
42.5°	5724.5	3285.8	2349.5	2411.4	2433.7	2441.1	2396.5	2350.7	2415.1	2375.5	2361.9
45°	6026.7	3298.2	2277.6	2296.2	2337.1	2371.8	2344.5	2288.8	2313.6	2141.4	2084.4
47.5°	6375.9	3377.5	2220.7	2197.1	2267.7	2333.4	2291.3	2207.1	2119.1	1948.2	1916.0
50°	6784.6	3500.1	2168.7	2099.3	2192.2	2281.4	2239.3	2119.1	1986.6	1903.6	1892.5
52.5°	7210.7	3649.9	2116.6	1991.5	2096.8	2241.7	2220.7	2099.3	1935.8	1854.1	1839.2
55°	7693.7	3801.0	2051.0	1866.5	1994.0	2223.2	2212.0	2027.5	1897.4	1851.6	1840.4
57.5°	8294.4	3973.2	1964.3	1736.4	1897.4	2156.3	2121.6	1984.1	1857.8	1823.1	1819.4
60°	9077.1	4227.1	1839.2	1597.7	1779.8	2053.5	2046.0	1921.0	1794.6	1769.9	1764.9
62.5°	10251.3	4646.9	1667.1	1459.0	1648.5	1878.8	1947.0	1835.5	1727.7	1726.5	1729.0
65°	12071.9	5278.6	1480.0	1337.6	1516.0	1731.5	1831.8	1747.6	1659.6	1684.4	1688.1
67.5°	14182.3	5802.5	1296.7	1218.7	1381.0	1591.5	1727.7	1659.6	1569.2	1633.6	1634.9
70°	14884.6	5334.3	1135.7	1101.0	1241.0	1456.5	1615.0	1563.0	1471.4	1535.8	1529.6
72°	13851.7	4306.4	1031.7	1011.9	1135.7	1345.0	1514.7	1472.6	1382.2	1425.5	1409.4
72.5°	13525.9	4105.7	1005.7	989.6	1107.2	1316.6	1488.7	1450.3	1359.9	1397.1	1382.2
75°	12065.7	3565.7	864.5	868.2	966.0	1177.8	1342.6	1330.2	1237.3	1241.0	1236.0
77.5°	8751.4	2614.5	728.3	753.0	822.4	1035.4	1195.2	1187.7	1086.2	1067.6	1063.9
80°	4061.1	1333.9	593.3	604.4	676.2	865.7	1019.3	1009.4	927.7	904.1	890.5
82.5°	1390.9	634.1	445.9	453.3	523.9	697.3	884.3	878.1	810.0	764.2	735.7
85°	496.6	315.8	312.1	304.7	374.0	548.7	770.4	736.9	636.6	542.5	540.0
87.5°	161.0	135.0	161.0	159.8	218.0	371.6	559.8	476.8	462.0	383.9	376.5
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

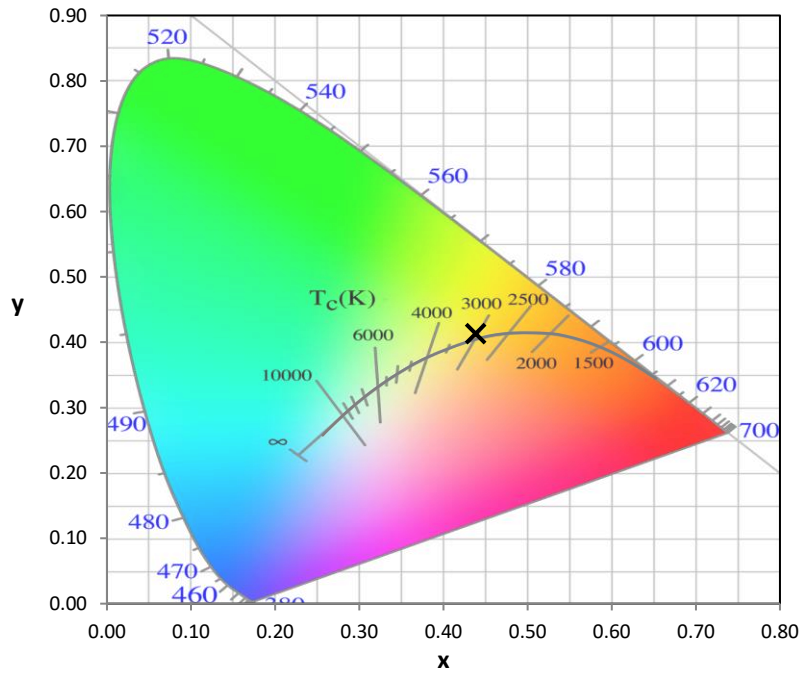
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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

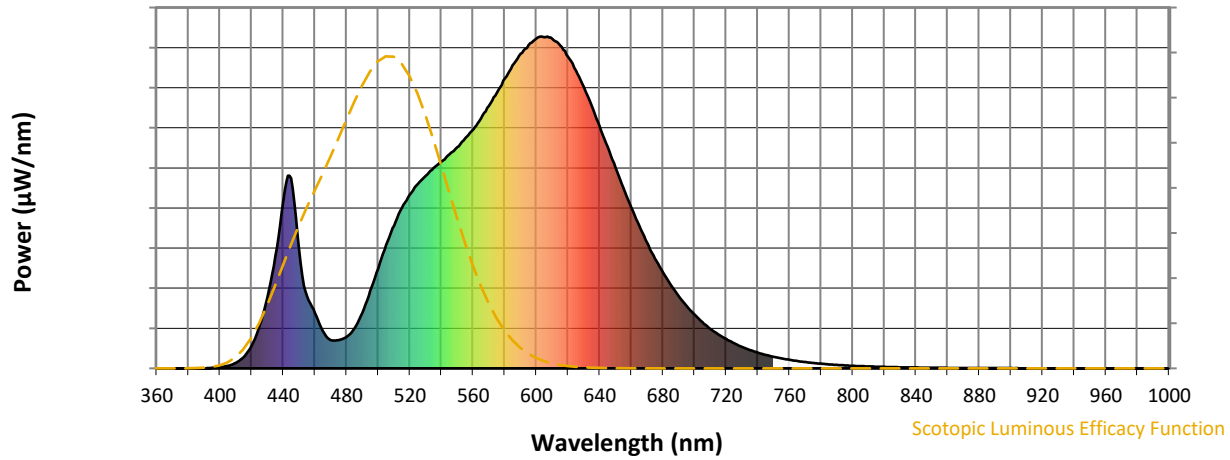


Photopic Lumens: NR

λ (nm)	Power W/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

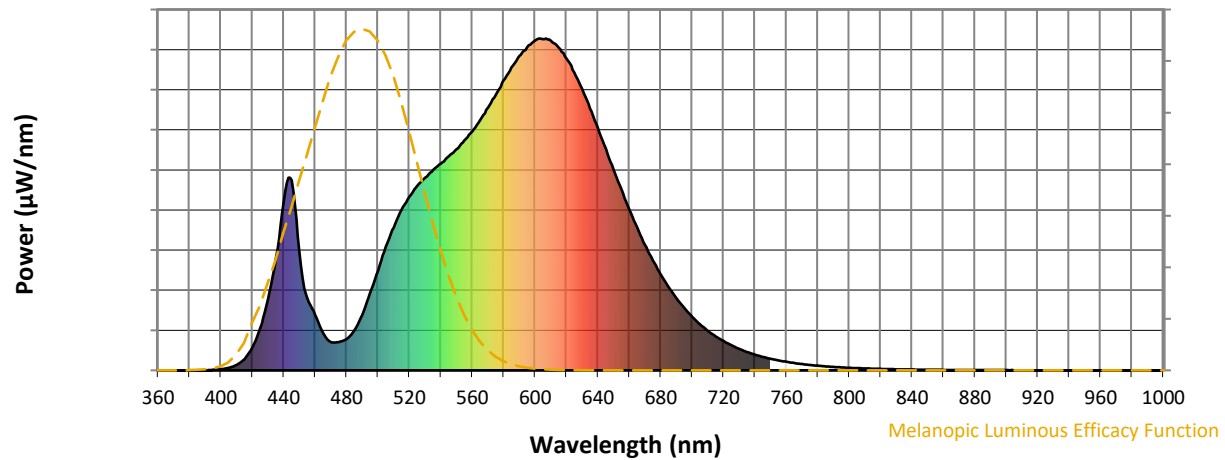
Scotopic Flux vs. Wavelength


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			

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

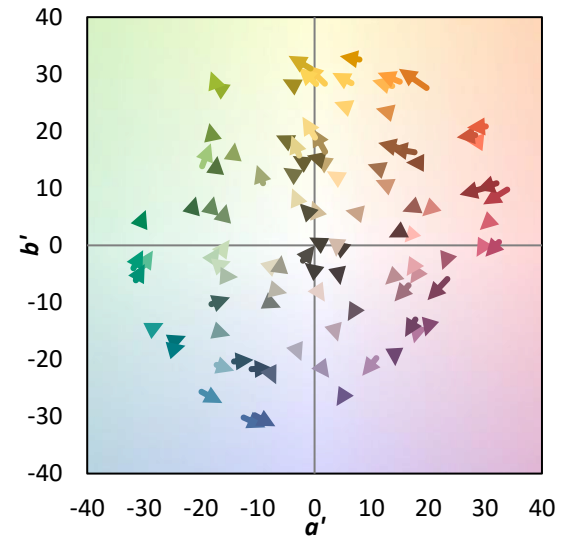
TM-30-18

Summary

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

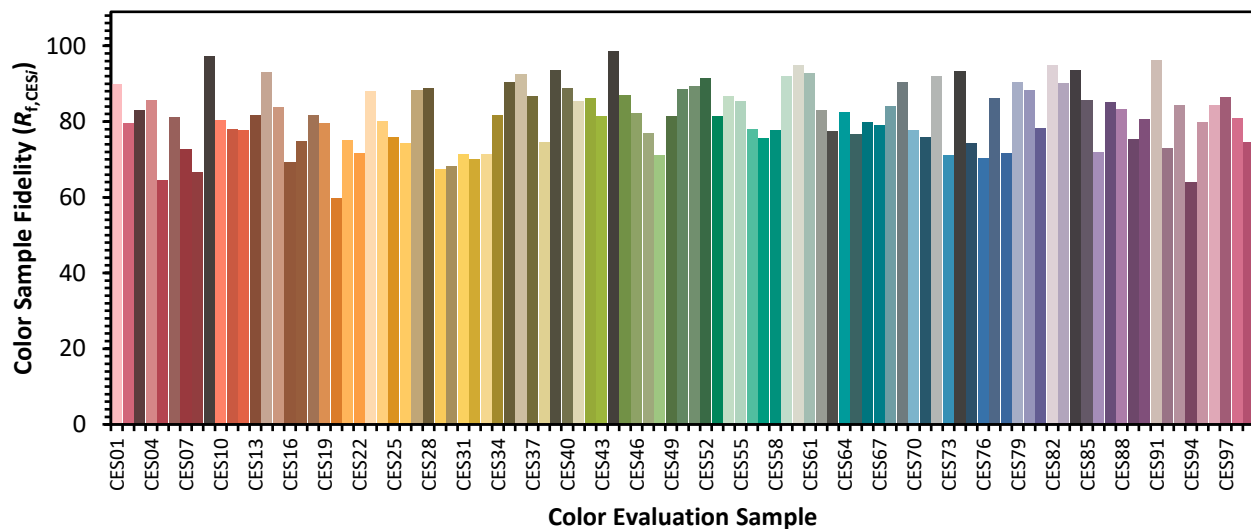


Color Vector Graphics

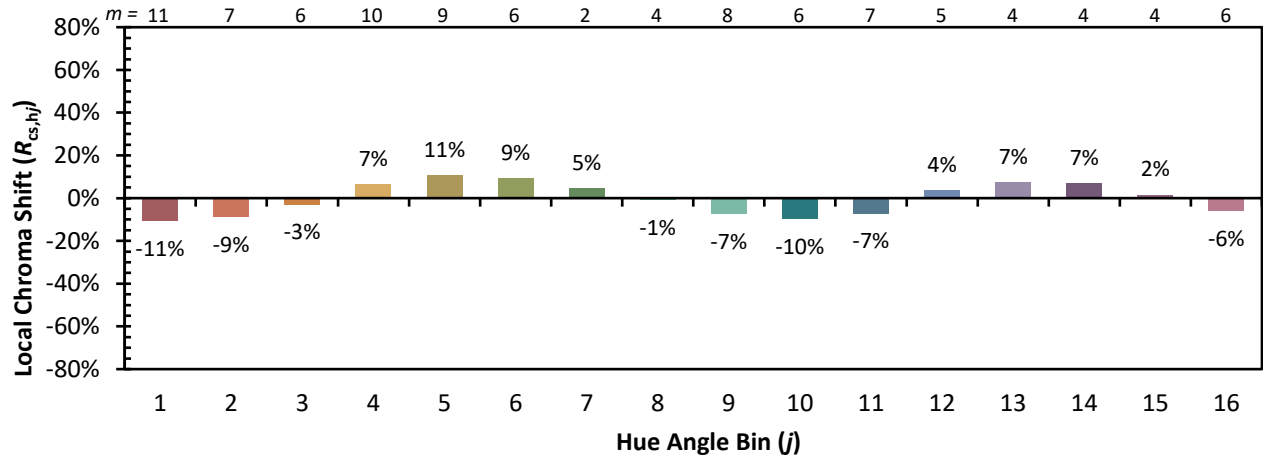


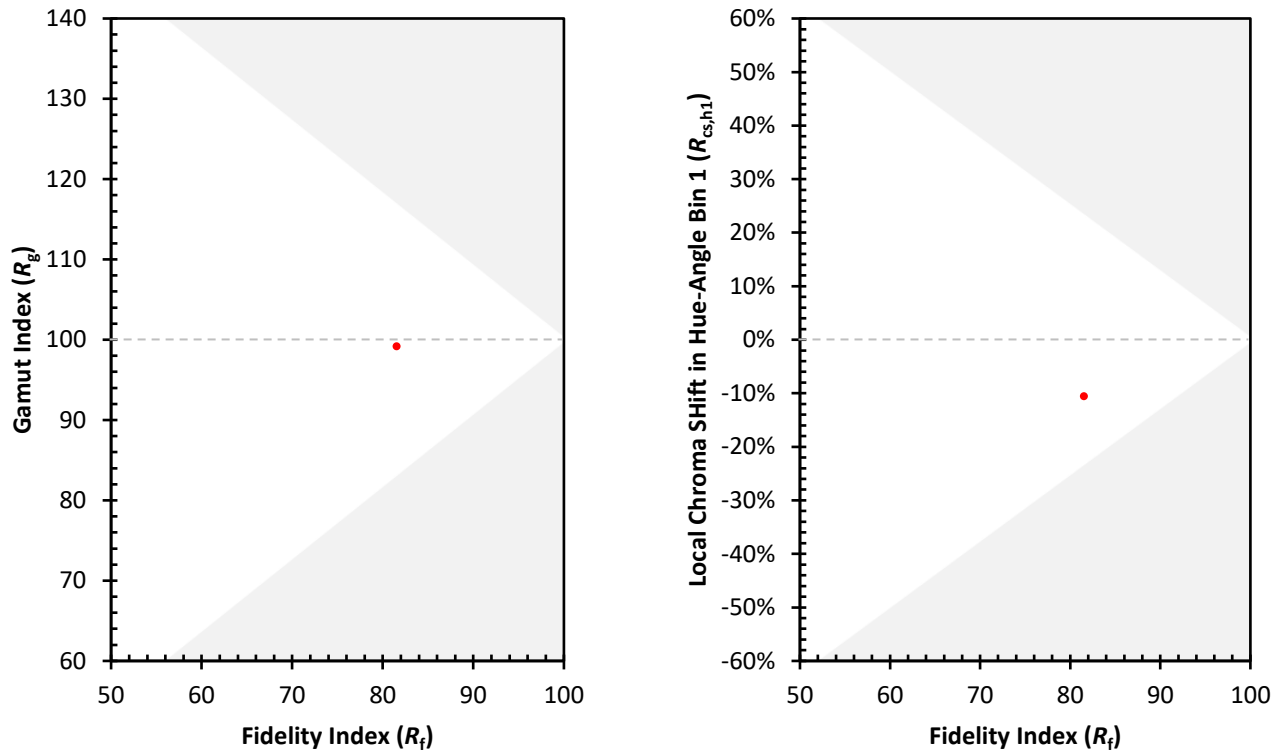
Individual Sample Fidelity Index ($R_{f,i}$)

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)