

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: P318261

Luminaire Tested: **GLEON-SA7D-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318261
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-SA7D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42797 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

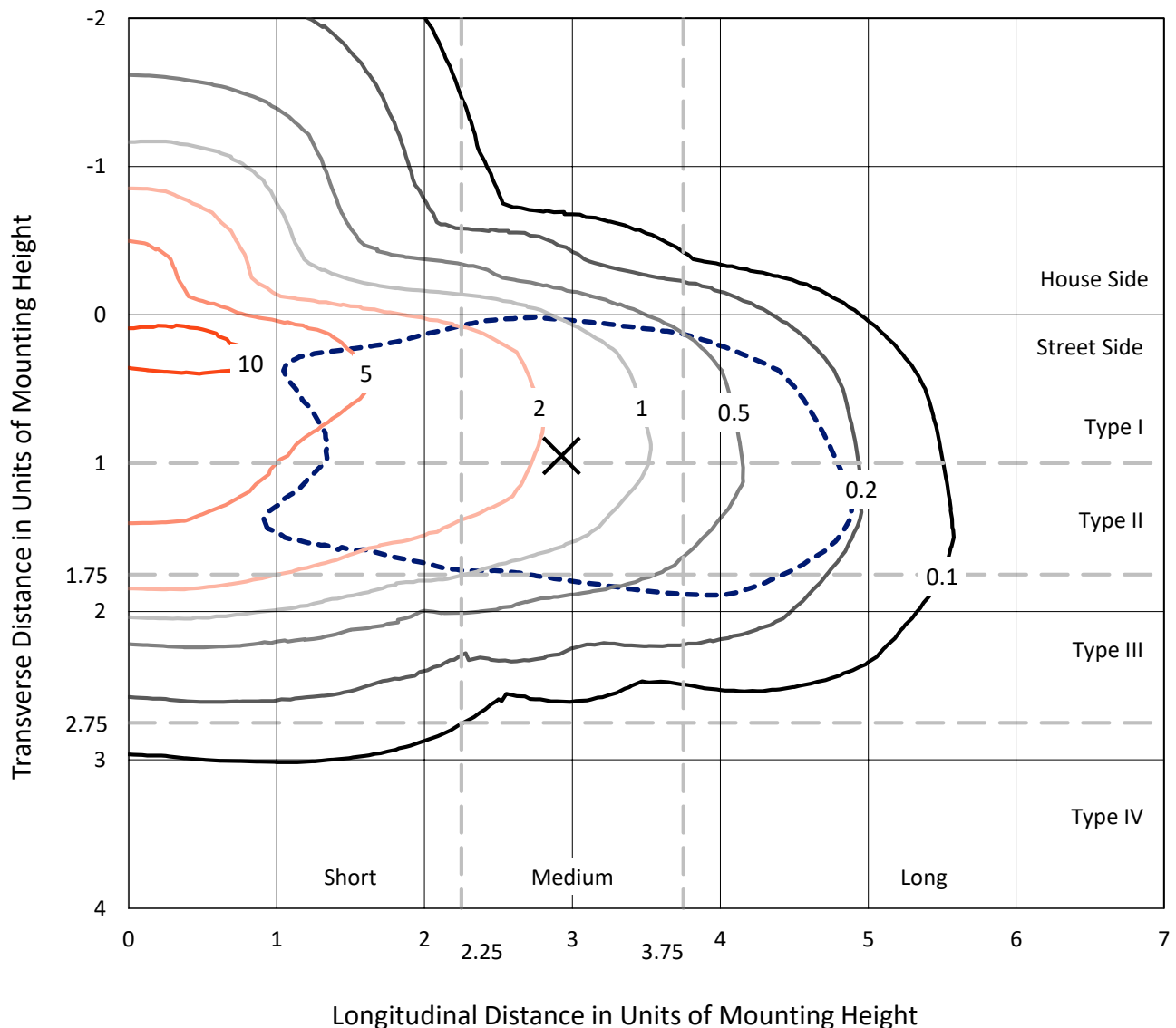
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

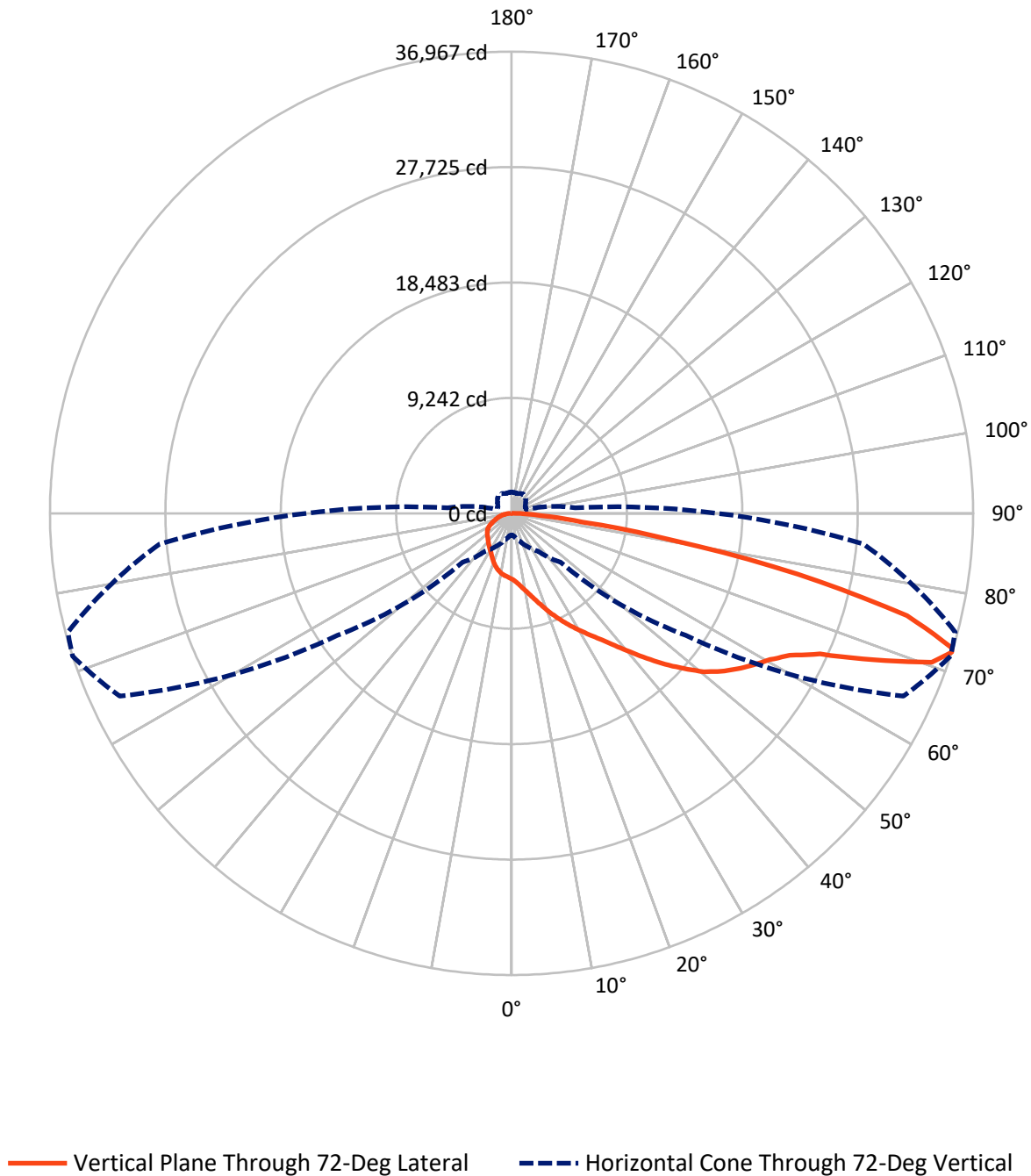
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	7939.1	0.0	7939.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34857.9	0.0	34857.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	42797.0	0.0	42797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.6	1.2
10°-20°	1704.9	4.0
20°-30°	2987.5	7.0
30°-40°	4429.5	10.4
40°-50°	6478.6	15.1
50°-60°	8914.4	20.8
60°-70°	9924.4	23.2
70°-80°	6724.8	15.7
80°-90°	1105.3	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°	42797.0	100.0
0°-180°	42797.0	100.0

Coefficient of Utilization



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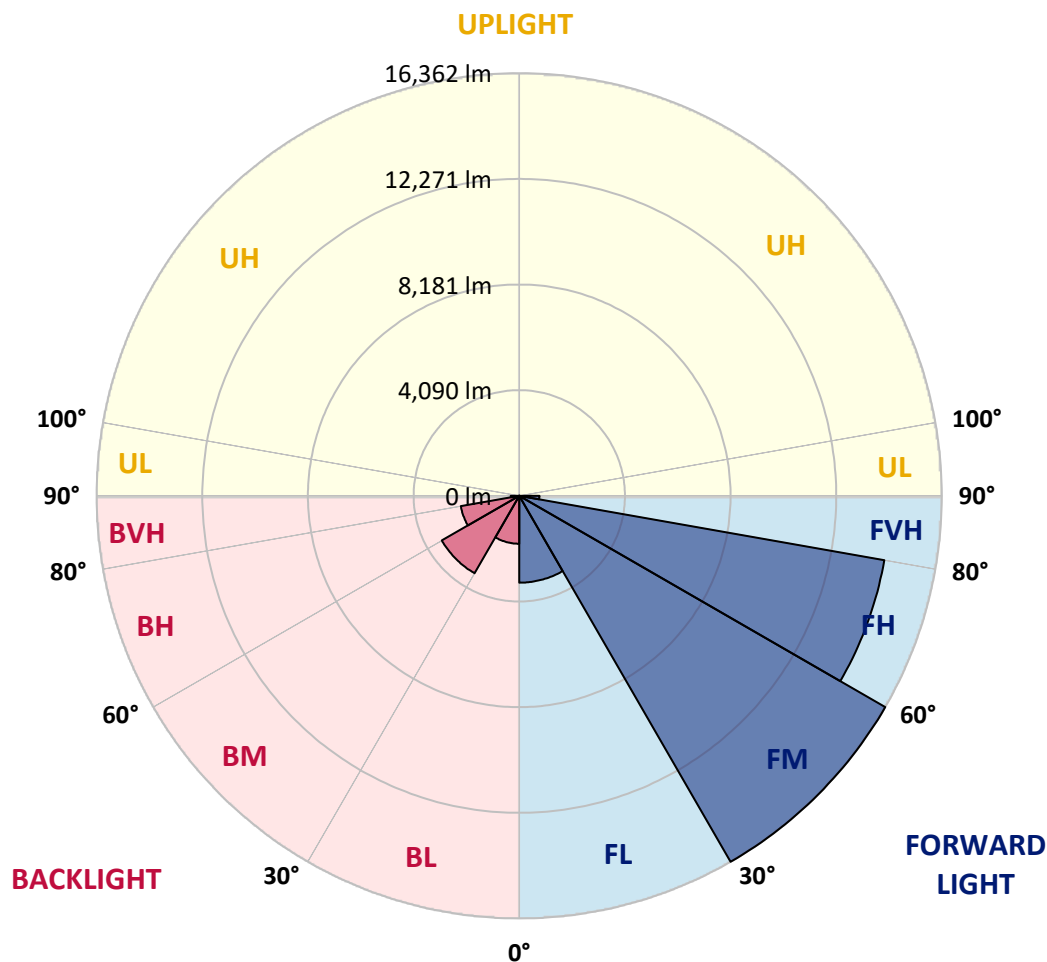
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3364.1	7.9			
FM	(30°-60°)	16361.8	38.2			
FH	(60°-80°)	14352.3	33.5			G5
FVH	(80°-90°)	779.6	1.8			G5
BL	(0°-30°)	1855.9	4.3	B3/2500		
BM	(30°-60°)	3460.7	8.1	B3/5000		
BH	(60°-80°)	2296.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	325.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1
2.5°	5816.3	5807.4	5776.5	5776.5	5717.5	5667.4	5573.1	5509.8	5434.6	5408.1	5319.7
5°	6379.2	6382.1	6343.8	6317.3	6230.4	6124.3	5963.6	5817.7	5671.9	5612.9	5431.7
7.5°	6852.2	6846.3	6836.0	6813.9	6732.8	6623.8	6407.2	6190.6	5975.4	5887.0	5574.6
10°	7155.8	7169.0	7177.9	7188.2	7154.3	7076.2	6871.4	6607.6	6326.1	6205.3	5745.5
12.5°	7309.0	7332.6	7373.9	7444.6	7500.6	7491.7	7342.9	7062.9	6728.4	6576.6	5959.2
15°	7398.9	7429.9	7494.7	7621.4	7779.1	7869.0	7829.2	7575.7	7202.9	7015.8	6220.0
17.5°	7454.9	7480.0	7580.2	7749.6	7983.9	8222.6	8327.3	8115.1	7739.3	7525.6	6519.2
20°	7493.2	7512.4	7637.6	7836.6	8140.1	8520.3	8812.1	8759.0	8330.2	8053.2	6831.6
22.5°	7578.7	7594.9	7714.3	7914.7	8250.6	8741.4	9279.2	9358.8	8953.6	8639.7	7166.1
25°	7817.4	7817.4	7917.6	8057.6	8373.0	8932.9	9674.1	10026.3	9590.1	9224.7	7475.5
27.5°	8272.8	8268.3	8305.2	8353.8	8592.5	9127.4	10026.3	10615.8	10250.3	9851.0	7776.1
30°	8812.1	8841.6	8846.0	8822.4	8934.4	9370.6	10352.0	11237.6	10914.9	10484.6	8084.1
32.5°	9506.1	9525.3	9503.2	9425.1	9408.9	9715.4	10671.8	11888.9	11634.0	11146.3	8365.6
35°	10387.4	10350.5	10281.3	10122.1	9970.3	10176.6	11037.2	12540.3	12441.5	11946.4	8753.1
37.5°	11331.9	11333.4	11247.9	10886.9	10677.7	10766.1	11541.2	13278.5	13418.5	12898.4	9249.7
40°	12089.4	12129.1	12182.2	11707.7	11436.6	11558.9	12182.2	14134.7	14573.8	14027.1	9896.7
42.5°	12618.4	12664.1	12814.4	12516.7	12235.2	12462.2	12936.7	15048.3	15870.6	15329.8	10654.1
45°	13178.3	13203.4	13309.5	13181.3	13001.5	13512.8	13786.9	15994.4	17242.5	16717.9	11501.4
47.5°	13767.8	13794.3	13903.3	13817.9	13723.6	14494.3	14674.0	16885.9	18557.0	18243.1	12406.2
50°	14495.7	14513.4	14616.6	14461.8	14491.3	15234.0	15466.8	17703.7	19934.8	19613.5	13313.9
52.5°	15488.9	15493.4	15636.3	15496.3	15357.8	15776.3	16149.1	18474.4	21014.9	20863.1	14221.6
55°	16267.0	16314.1	16782.7	16753.3	16673.7	16268.5	16719.4	19208.3	21978.6	22050.8	15185.4
57.5°	15770.4	15954.6	16903.6	17572.6	18223.9	17493.0	17490.1	20035.0	22874.6	23216.5	16244.9
60°	13812.0	14062.5	15460.9	16944.8	18982.8	19623.8	19090.4	21044.4	23779.4	24371.8	17572.6
62.5°	9864.2	10276.8	12171.9	14541.4	17942.5	21035.5	22347.0	22646.2	25009.8	25709.8	19298.2
65°	4986.6	5299.0	6887.6	9741.9	14335.1	20113.1	25886.6	26153.3	27148.0	27769.9	21955.1
67.5°	3029.7	3147.6	3922.7	5418.4	8788.5	15667.2	27041.9	31999.1	31285.9	31615.9	25743.7
70°	2232.5	2319.4	2802.8	3598.5	5054.4	9193.7	23496.4	36170.8	35702.2	35665.4	28543.5
72°	1738.8	1802.2	2229.5	2907.4	3695.8	5515.7	17030.3	34630.9	36966.6	36780.9	28287.1
72.5°	1649.0	1704.9	2094.0	2736.5	3492.4	4999.9	15312.1	33592.0	36875.2	36791.2	27955.5
75°	1298.2	1338.0	1550.2	2116.1	2733.5	2836.7	8390.6	26032.5	32712.3	34072.4	25143.9
77.5°	1074.2	1080.1	1192.1	1539.9	2130.8	2005.6	4121.6	18061.8	23424.2	24919.9	17811.3
80°	875.3	882.7	935.7	1080.1	1612.1	1483.9	1956.9	10385.9	13115.0	13131.2	8470.2
82.5°	697.0	698.5	757.4	789.8	1158.2	1061.0	1121.4	4876.1	5730.8	5512.7	3044.4
85°	490.7	480.4	739.7	648.4	757.4	680.8	618.9	1930.4	2369.5	2266.4	953.4
87.5°	163.6	169.5	328.6	420.0	442.1	386.1	275.6	739.7	894.5	887.1	302.1
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°	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1	5265.1
2.5°	5291.7	5244.5	5175.3	5098.6	5038.2	4976.3	4930.6	4907.1	4880.5	4858.4	4885.0
5°	5347.7	5259.3	5111.9	4967.5	4861.4	4767.1	4699.3	4663.9	4631.5	4609.4	4612.3
7.5°	5439.0	5296.1	5048.5	4837.8	4690.4	4588.8	4519.5	4495.9	4475.3	4469.4	4476.8
10°	5536.3	5325.6	4964.5	4684.6	4516.6	4432.6	4401.6	4417.8	4432.6	4445.8	4460.6
12.5°	5646.8	5352.1	4842.2	4504.8	4361.8	4329.4	4360.4	4431.1	4482.7	4513.6	4532.8
15°	5791.2	5375.7	4700.8	4325.0	4229.2	4266.1	4370.7	4493.0	4582.9	4640.3	4649.2
17.5°	5923.8	5374.2	4519.5	4143.7	4121.6	4229.2	4386.9	4559.3	4680.1	4761.2	4777.4
20°	6060.9	5334.4	4308.8	3966.9	4012.6	4189.4	4394.3	4602.0	4747.9	4842.2	4864.3
22.5°	6189.1	5265.1	4077.4	3806.3	3921.2	4136.4	4366.3	4577.0	4722.9	4799.5	4823.1
25°	6276.0	5144.3	3843.1	3670.7	3840.2	4071.5	4274.9	4444.4	4553.4	4591.7	4597.6
27.5°	6320.2	4986.6	3622.1	3552.8	3756.2	3965.4	4105.4	4189.4	4220.4	4217.4	4211.5
30°	6326.1	4778.9	3432.0	3457.0	3658.9	3809.2	3875.5	3859.3	3819.6	3751.8	3757.7
32.5°	6307.0	4544.6	3272.8	3365.7	3535.1	3619.1	3622.1	3544.0	3437.9	3330.3	3300.8
35°	6312.9	4314.7	3132.9	3262.5	3384.8	3421.7	3387.8	3272.8	3128.4	2989.9	2960.4
37.5°	6377.7	4114.3	3012.0	3143.2	3218.3	3227.2	3178.5	3057.7	2951.6	2816.0	2804.2
40°	6532.4	3971.3	2897.1	3009.1	3051.8	3056.2	2987.0	2901.5	2910.3	2838.1	2836.7
42.5°	6810.9	3909.4	2795.4	2869.1	2895.6	2904.5	2851.4	2796.9	2873.5	2826.4	2810.1
45°	7170.5	3924.2	2709.9	2732.0	2780.7	2821.9	2789.5	2723.2	2752.7	2547.8	2480.1
47.5°	7586.1	4018.5	2642.2	2614.2	2698.1	2776.2	2726.1	2625.9	2521.3	2318.0	2279.6
50°	8072.3	4164.4	2580.3	2497.7	2608.3	2714.4	2664.3	2521.3	2363.6	2264.9	2251.6
52.5°	8579.3	4342.7	2518.4	2369.5	2494.8	2667.2	2642.2	2497.7	2303.2	2206.0	2188.3
55°	9154.0	4522.5	2440.3	2220.7	2372.5	2645.1	2631.8	2412.3	2257.5	2203.0	2189.8
57.5°	9868.7	4727.3	2337.1	2066.0	2257.5	2565.5	2524.3	2360.7	2210.4	2169.1	2164.7
60°	10800.0	5029.4	2188.3	1900.9	2117.6	2443.2	2434.4	2285.5	2135.2	2105.8	2099.9
62.5°	12196.9	5528.9	1983.5	1735.9	1961.4	2235.4	2316.5	2183.9	2055.7	2054.2	2057.1
65°	14363.1	6280.5	1760.9	1591.5	1803.7	2060.1	2179.4	2079.2	1974.6	2004.1	2008.5
67.5°	16874.1	6903.8	1542.9	1450.0	1643.1	1893.6	2055.7	1974.6	1867.0	1943.7	1945.1
70°	17709.6	6346.8	1351.3	1310.0	1476.5	1732.9	1921.6	1859.7	1750.6	1827.3	1819.9
72°	16480.7	5123.7	1227.5	1203.9	1351.3	1600.3	1802.2	1752.1	1644.5	1696.1	1676.9
72.5°	16093.1	4885.0	1196.6	1177.4	1317.4	1566.4	1771.3	1725.6	1618.0	1662.2	1644.5
75°	14355.7	4242.5	1028.6	1033.0	1149.4	1401.4	1597.4	1582.6	1472.1	1476.5	1470.6
77.5°	10412.4	3110.8	866.5	895.9	978.5	1231.9	1422.0	1413.2	1292.3	1270.2	1265.8
80°	4831.9	1587.1	705.9	719.1	804.6	1030.0	1212.8	1201.0	1103.7	1075.7	1059.5
82.5°	1654.8	754.5	530.5	539.3	623.3	829.6	1052.1	1044.8	963.7	909.2	875.3
85°	590.9	375.8	371.3	362.5	445.0	652.8	916.6	876.8	757.4	645.4	642.5
87.5°	191.6	160.6	191.6	190.1	259.4	442.1	666.1	567.3	549.7	456.8	448.0
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
 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

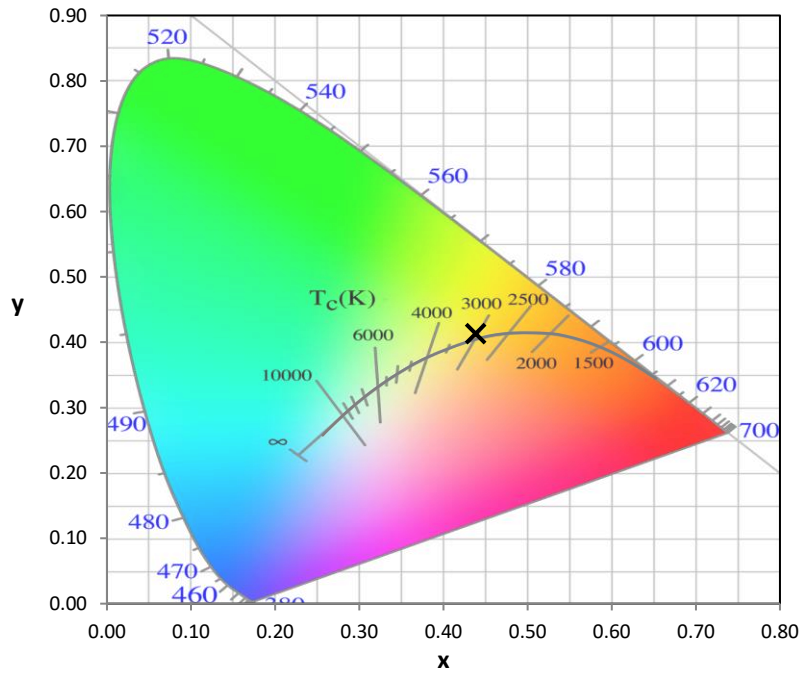
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

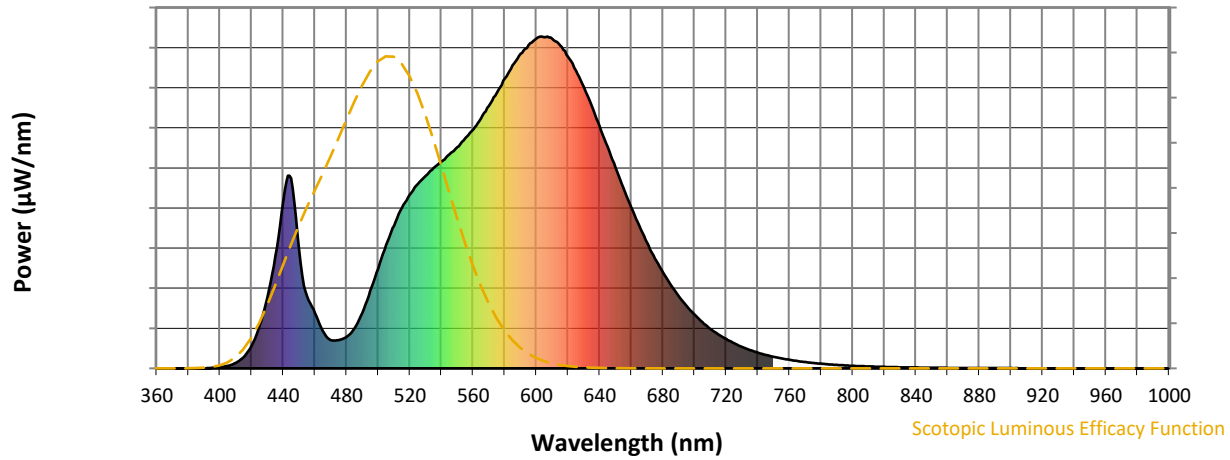


Photopic Lumens: NR

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



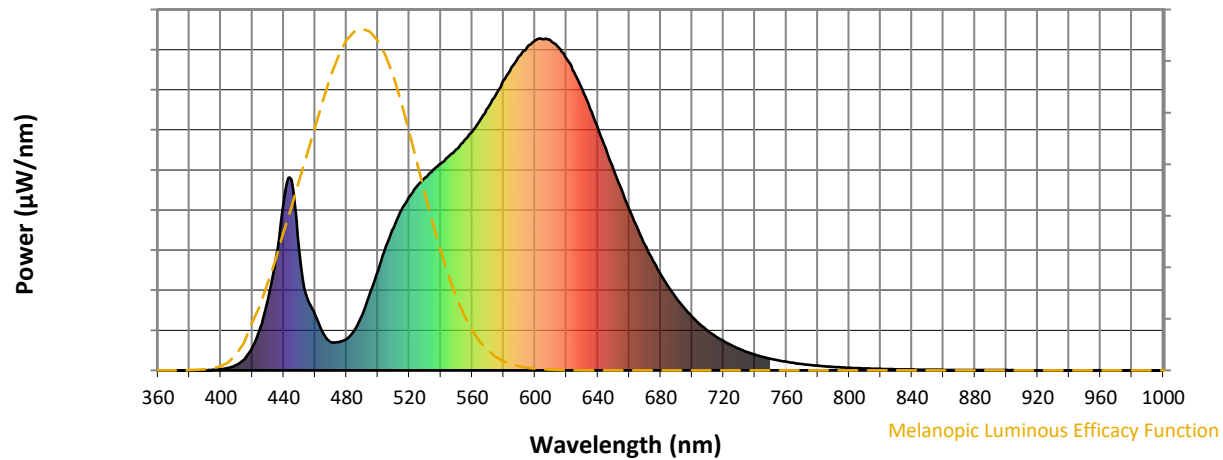
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power 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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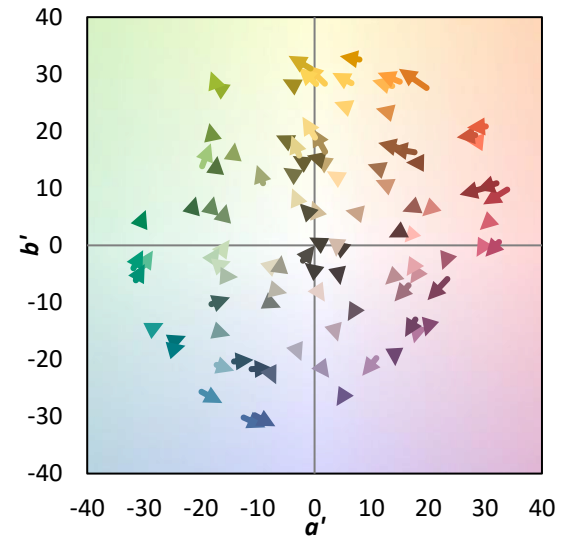
TM-30-18

Summary

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

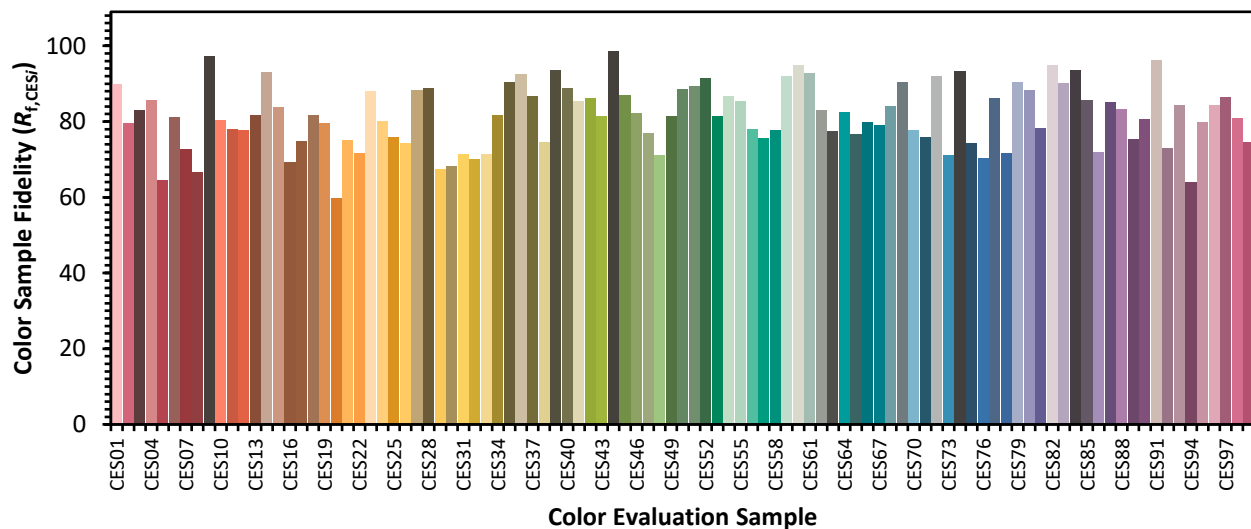


Color Vector Graphics

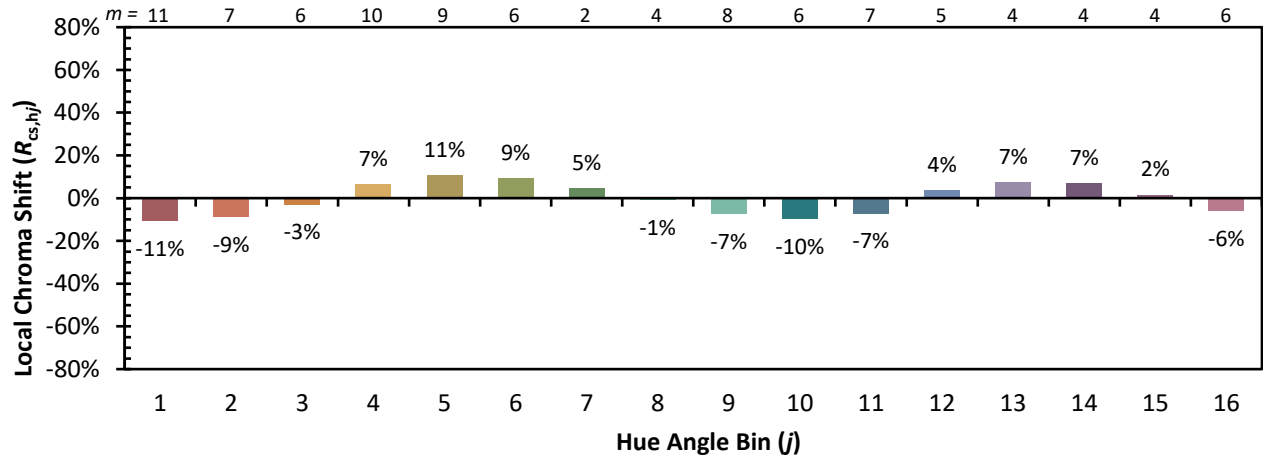


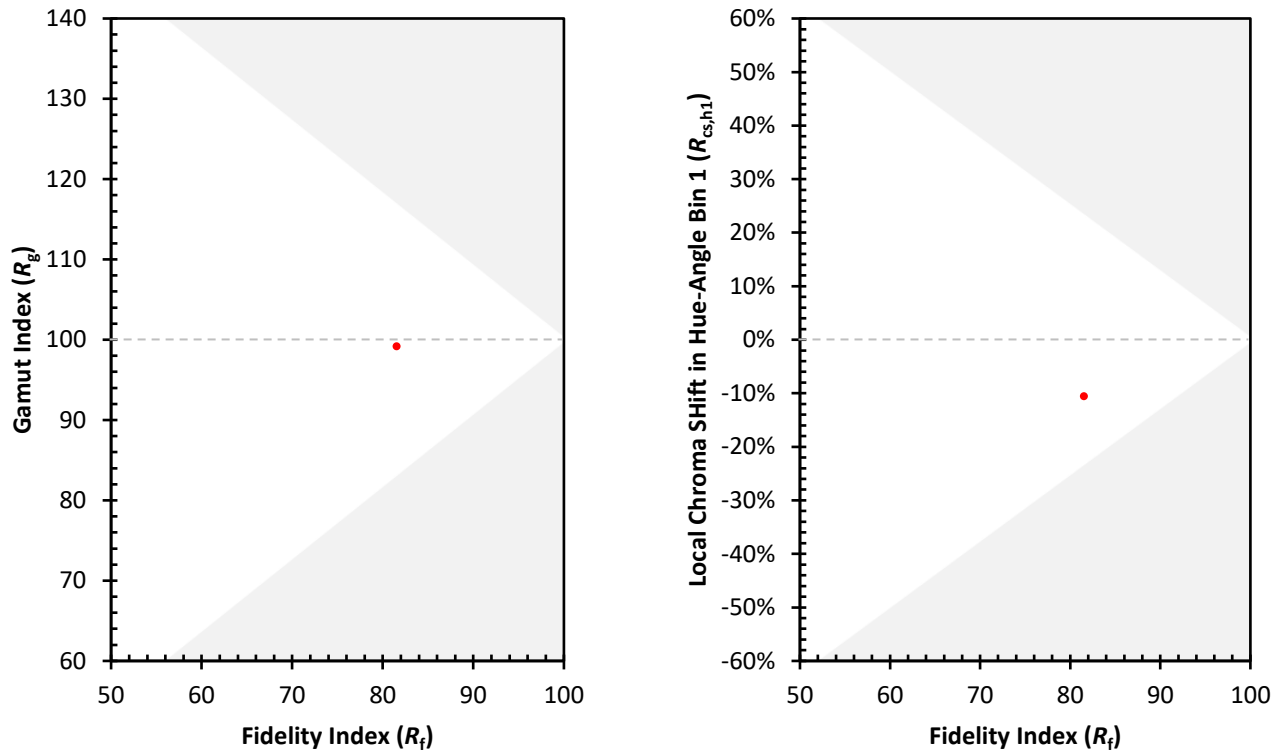
Individual Sample Fidelity Index ($R_{f,i}$)

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)