

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: P317623

Luminaire Tested: **GLEON-SA9D-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57426 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

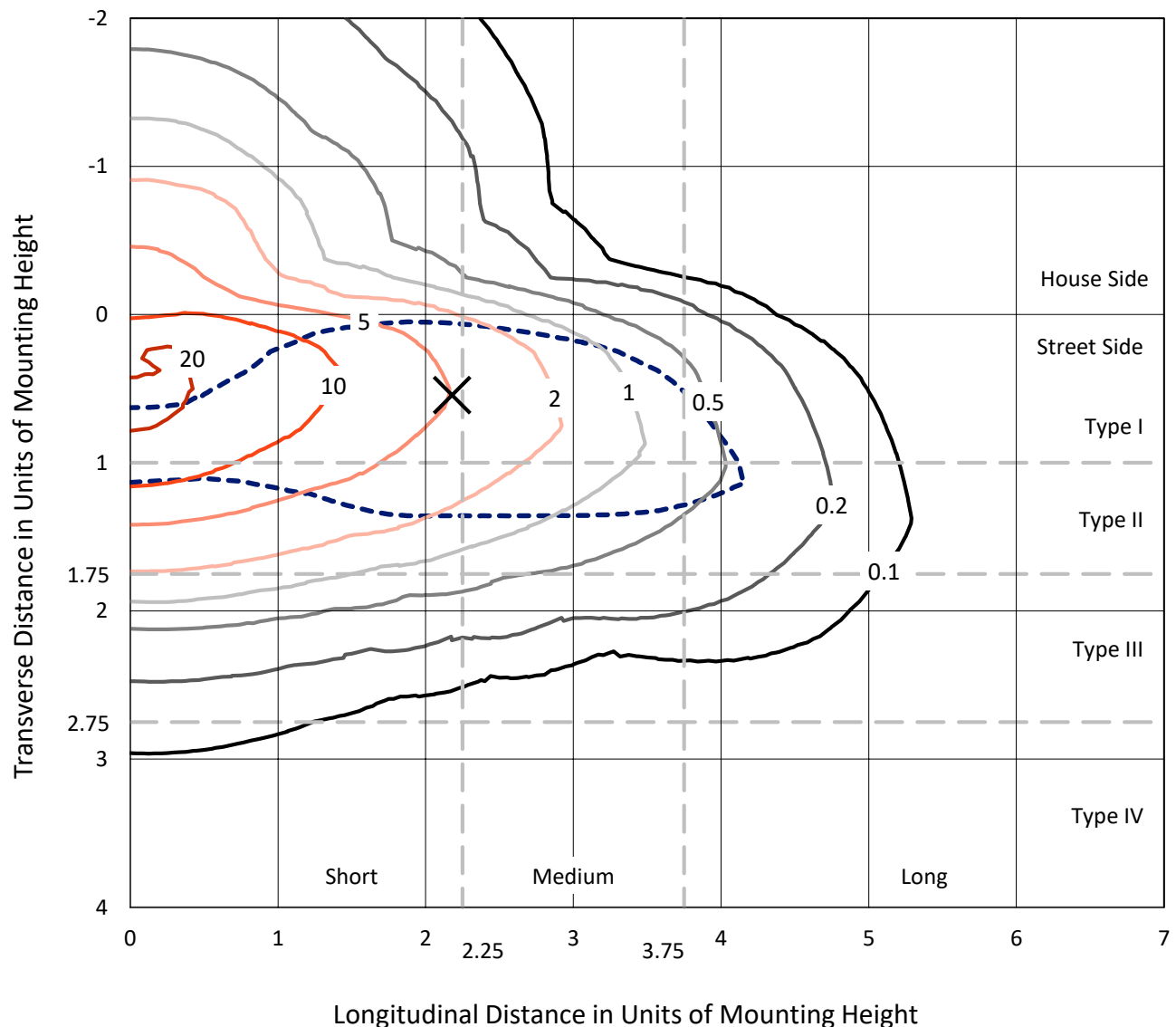
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

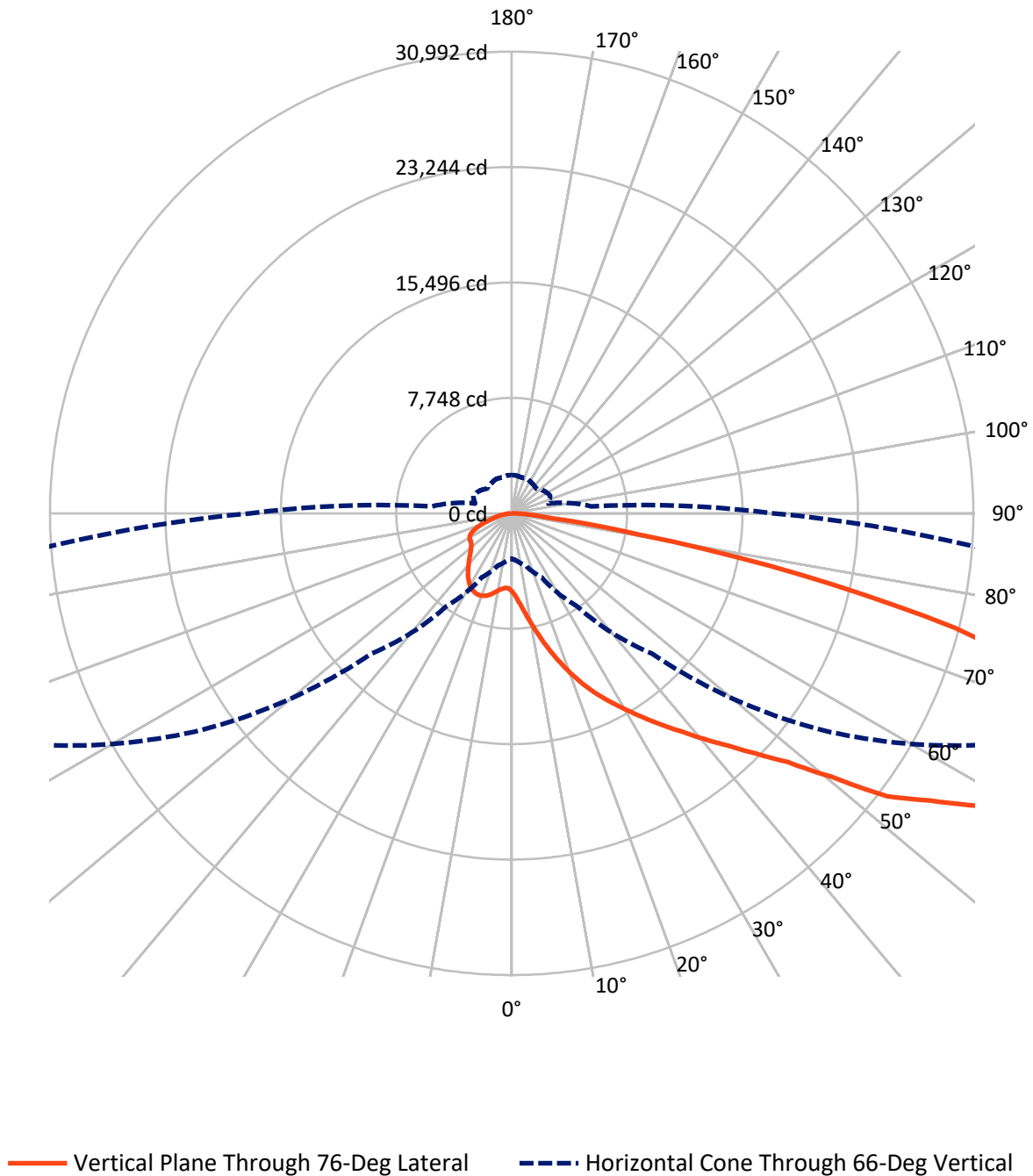
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA9D-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9662.8	0.0	9662.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	47763.2	0.0	47763.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	57426.0	0.0	57426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.2	1.1
10°-20°	2504.3	4.4
20°-30°	4866.5	8.5
30°-40°	7943.2	13.8
40°-50°	10852.4	18.9
50°-60°	12640.8	22.0
60°-70°	11332.7	19.7
70°-80°	5727.1	10.0
80°-90°	924.8	1.6
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°	57426.0	100.0
0°-180°	57426.0	100.0

Coefficient of Utilization



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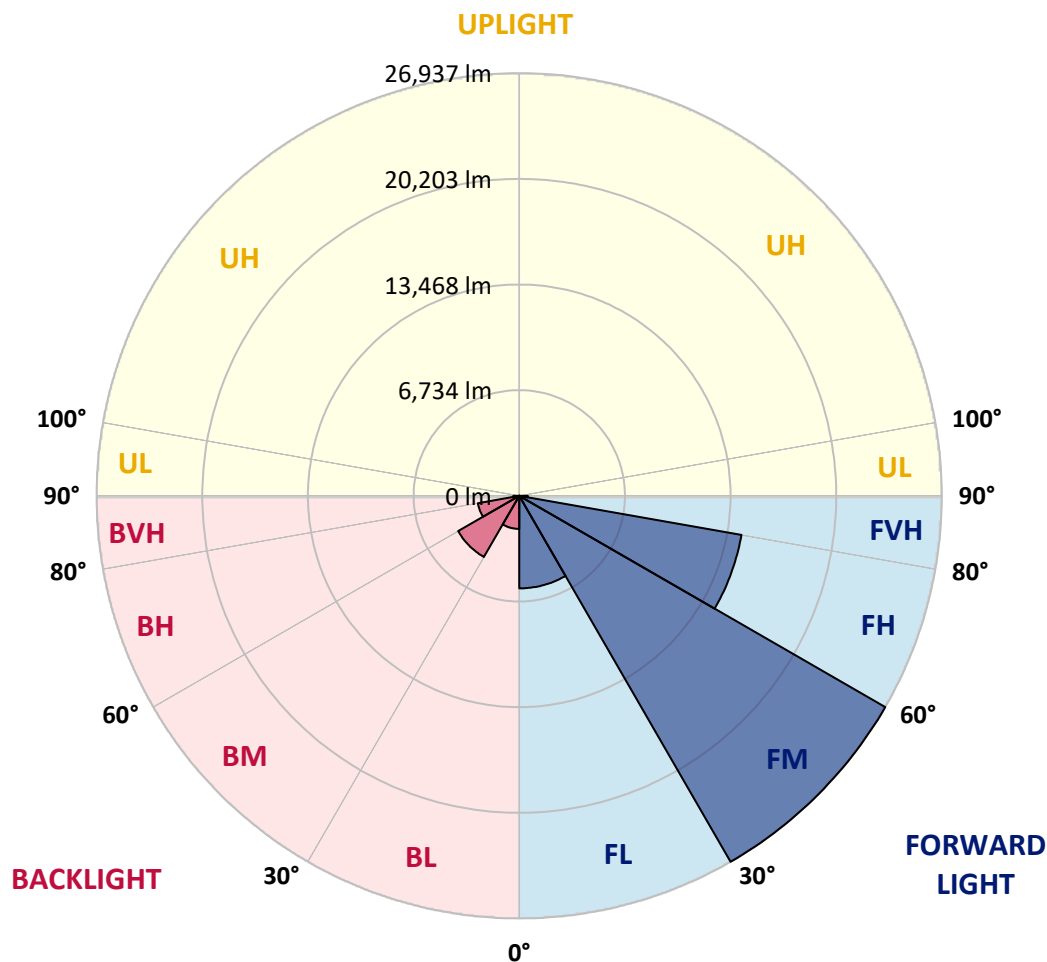
CATALOG NUMBER: GLEON-SA9D-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5897.5	10.3			
FM	(30°-60°)	26936.8	46.9			
FH	(60°-80°)	14382.7	25.0			G5
FVH	(80°-90°)	546.2	1.0			G4/750
BL	(0°-30°)	2107.5	3.7	B3/2500		
BM	(30°-60°)	4499.6	7.8	B3/5000		
BH	(60°-80°)	2677.1	4.7	B4/5000		G4/5000
BVH	(80°-90°)	378.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
2.5°	6961.8	6856.6	6846.8	6692.8	6657.7	6363.3	6146.9	5920.8	5663.4	5612.8	5410.0
5°	8942.6	8932.8	8798.3	8546.8	8349.9	7846.9	7349.8	6823.4	6246.4	6152.8	5696.6
7.5°	10724.5	10708.9	10605.6	10334.6	10049.9	9431.9	8722.3	7915.2	6979.4	6841.0	6084.5
10°	12077.5	12071.6	12036.5	11837.7	11595.9	11003.3	10219.5	9118.0	7831.3	7642.2	6570.0
12.5°	13122.4	13134.1	13157.5	13087.3	12972.3	12467.4	11664.2	10393.1	8739.8	8552.7	7110.0
15°	13830.1	13865.2	13986.1	14085.5	14145.9	13836.0	13058.1	11697.3	9757.5	9533.3	7708.5
17.5°	14186.9	14225.9	14434.5	14734.7	15011.5	14980.3	14362.3	12941.1	10734.2	10517.8	8351.9
20°	14494.9	14524.1	14758.1	15118.8	15608.1	15824.5	15477.5	14138.1	11804.5	11547.2	9034.2
22.5°	15387.8	15424.8	15495.0	15699.7	16132.5	16530.2	16362.6	15270.8	12785.1	12545.4	9681.5
25°	17111.2	17156.0	17004.0	16830.5	16912.3	17189.2	17220.4	16304.1	13779.4	13508.4	10377.5
27.5°	19187.5	19251.8	18992.5	18546.1	18156.2	18048.9	18011.9	17150.2	14728.8	14415.0	11065.6
30°	21220.8	21332.0	20994.7	20415.7	19700.2	19197.2	18824.9	17978.7	15664.6	15364.4	11714.8
32.5°	23207.4	23162.6	22673.3	22107.9	21269.6	20639.9	19739.2	18867.7	16717.4	16372.3	12360.1
35°	24568.2	24583.8	24129.6	23458.9	22659.6	22176.1	20963.5	19826.9	17791.6	17473.8	13093.2
37.5°	25726.3	25654.1	25139.4	24513.6	23825.4	23618.8	22396.4	20883.6	18955.5	18608.5	13873.0
40°	26112.3	26028.4	25691.2	25240.8	24689.1	24671.6	23977.5	22080.6	20271.4	19928.3	14752.2
42.5°	25878.3	25771.1	25632.7	25509.9	25340.2	25418.2	25463.1	23484.3	21718.0	21333.9	15769.9
45°	25014.7	24852.9	24950.3	25217.4	25585.9	26026.5	26804.4	25038.1	23338.1	23016.4	16965.0
47.5°	23687.0	23540.8	23844.9	24416.2	25418.2	26533.4	28073.5	26753.7	25272.0	24952.3	18666.9
50°	21819.4	21862.3	22297.0	23336.1	24850.9	26767.3	29637.1	29024.9	28083.3	27785.0	20988.9
52.5°	18754.7	18762.5	19986.8	21692.6	23844.9	26646.4	30504.6	31927.8	31921.9	31561.3	23199.6
55°	15908.3	16081.8	17050.8	19318.1	22215.1	26163.0	31110.9	33339.3	34442.7	34019.6	25260.3
57.5°	13128.3	13229.6	14147.9	16425.0	19889.3	24874.3	31732.8	35033.4	37347.5	37080.4	27822.0
60°	9966.1	10122.1	11071.5	13175.1	16914.3	22587.5	31791.3	36801.7	40819.7	40550.6	30682.0
62.5°	6468.6	6737.6	7626.6	9597.6	13315.4	19298.6	30434.4	37957.7	44110.5	44015.0	33220.3
65°	3717.8	3920.5	4538.6	6059.2	9186.3	15169.4	27207.9	37513.2	46136.1	46081.5	34169.8
66°	3037.4	3164.1	3637.9	4735.5	7579.8	13321.3	25332.5	36575.5	46336.9	46338.8	34060.6
67.5°	2429.1	2485.7	2698.2	3390.3	5593.3	10558.8	21981.2	34507.0	46087.4	46155.6	33356.8
70°	2010.0	2039.2	2105.5	2273.2	3053.0	6367.2	15602.2	29132.1	43582.2	43634.8	30609.9
72.5°	1803.3	1820.9	1846.2	1869.6	2154.3	3557.9	9529.4	23304.9	38211.2	38279.4	26424.2
75°	1633.7	1643.5	1639.6	1641.5	1807.2	2267.3	4924.6	17399.7	30896.5	30760.0	20242.2
77.5°	1434.9	1444.6	1425.1	1429.0	1598.6	1742.9	2450.6	12180.8	20850.4	19887.4	11404.9
80°	1212.6	1220.4	1212.6	1226.3	1392.0	1315.9	1425.1	6852.7	9219.4	8720.3	4055.1
82.5°	916.3	949.4	972.8	1027.4	1146.3	935.8	953.3	2668.9	2807.4	2672.8	1243.8
85°	401.6	489.3	733.0	785.7	861.7	561.5	625.8	1087.8	1142.4	1107.3	452.3
87.5°	105.3	115.0	362.6	456.2	477.6	253.4	325.6	495.2	522.5	495.2	150.1
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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CATALOG NUMBER: GLEON-SA9D-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
2.5°	5302.8	5207.2	5035.7	4883.6	4768.6	4690.6	4612.6	4573.6	4550.2	4526.9	4530.8
5°	5472.4	5279.4	4985.0	4776.4	4659.4	4585.3	4546.4	4530.8	4521.0	4497.6	4497.6
7.5°	5727.8	5454.8	5049.3	4834.9	4743.3	4686.7	4663.3	4655.5	4643.8	4616.5	4620.4
10°	6049.5	5667.3	5183.9	4975.3	4891.4	4829.0	4795.9	4784.2	4762.8	4731.6	4735.5
12.5°	6427.7	5930.5	5361.3	5142.9	5041.5	4957.7	4903.1	4870.0	4832.9	4792.0	4793.9
15°	6841.0	6217.1	5552.3	5293.0	5154.6	5037.6	4949.9	4893.4	4834.9	4784.2	4782.2
17.5°	7260.1	6494.0	5698.5	5374.9	5187.8	5033.7	4914.8	4827.1	4755.0	4692.6	4686.7
20°	7712.4	6743.5	5780.4	5367.1	5125.4	4942.1	4784.2	4675.0	4595.1	4532.7	4523.0
22.5°	8172.5	6977.4	5794.1	5287.2	4986.9	4762.8	4597.0	4476.2	4394.3	4330.0	4306.6
25°	8593.6	7158.7	5737.5	5133.2	4793.9	4552.2	4390.4	4267.6	4201.3	4125.2	4101.9
27.5°	8977.7	7285.5	5624.5	4936.3	4577.5	4339.7	4187.6	4082.4	4010.2	3951.7	3932.2
30°	9322.7	7353.7	5439.2	4702.3	4355.3	4138.9	4010.2	3938.1	3875.7	3801.6	3788.0
32.5°	9650.3	7353.7	5201.4	4446.9	4135.0	3961.5	3885.5	3840.6	3770.4	3698.3	3678.8
35°	9977.8	7308.9	4920.7	4179.8	3932.2	3834.8	3830.9	3778.2	3671.0	3573.5	3548.2
37.5°	10322.9	7217.2	4604.8	3930.3	3766.5	3778.2	3811.4	3694.4	3542.3	3403.9	3366.9
40°	10712.8	7090.5	4277.3	3713.9	3628.1	3752.9	3758.7	3573.5	3277.2	3150.5	3117.3
42.5°	11170.9	6963.8	3973.2	3522.8	3518.9	3676.9	3659.3	3312.3	3134.9	3070.5	3053.0
45°	11773.3	6891.7	3684.6	3341.5	3433.2	3554.0	3489.7	3168.0	3093.9	3056.9	3041.3
47.5°	12722.8	6928.7	3419.5	3197.3	3347.4	3431.2	3173.9	3109.5	3056.9	3012.1	2996.5
50°	13912.0	6907.3	3205.1	3097.8	3249.9	3302.5	3031.5	3033.5	3006.2	2955.5	2932.1
52.5°	14806.8	6739.6	3066.6	3041.3	3164.1	3074.4	2941.9	2959.4	2945.8	2871.7	2846.3
55°	15670.5	6595.3	2996.5	3019.9	3101.7	2789.8	2836.6	2879.5	2865.8	2793.7	2782.0
57.5°	16744.7	6568.0	2953.6	3025.7	3049.1	2647.5	2735.2	2791.8	2782.0	2750.8	2745.0
60°	18060.6	6575.8	2914.6	3035.4	2990.6	2542.2	2639.7	2711.8	2717.7	2711.8	2707.9
62.5°	18783.9	6363.3	2817.1	3008.2	2887.3	2450.6	2540.3	2645.5	2647.5	2659.2	2657.2
65°	18169.8	5727.8	2635.8	2912.6	2713.8	2374.6	2454.5	2569.5	2540.3	2592.9	2592.9
66°	17573.2	5361.3	2546.1	2850.2	2639.7	2345.3	2427.2	2530.5	2493.5	2565.6	2565.6
67.5°	16354.8	4743.3	2384.3	2717.7	2534.4	2304.4	2396.0	2466.2	2415.5	2522.7	2514.9
70°	14128.4	3669.1	2058.7	2417.4	2360.9	2243.9	2353.1	2337.5	2263.4	2427.2	2396.0
72.5°	11911.7	2787.9	1653.2	2023.6	2097.7	2167.9	2292.7	2173.7	2080.2	2195.2	2127.0
75°	9242.8	2095.8	1306.2	1573.3	1772.1	2049.0	2220.5	1984.6	1850.1	1838.4	1801.4
77.5°	4996.7	1438.8	1035.2	1200.9	1407.6	1900.8	2171.8	1781.9	1579.1	1532.3	1503.1
80°	1978.8	935.8	752.5	910.4	984.5	1686.4	2054.8	1546.0	1302.3	1255.5	1210.7
82.5°	816.9	553.7	485.4	610.2	641.4	1442.7	1844.3	1267.2	1006.0	1392.0	1477.8
85°	350.9	304.1	288.5	315.8	362.6	1011.8	1468.0	967.0	1085.9	968.9	770.1
87.5°	105.3	128.7	122.8	120.9	132.6	241.7	781.8	538.1	797.4	302.2	226.1
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

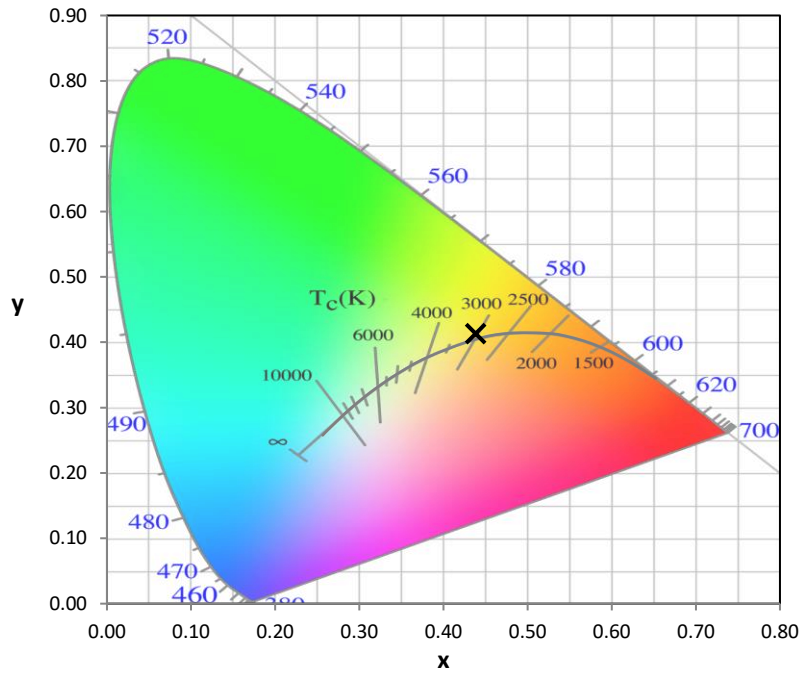
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

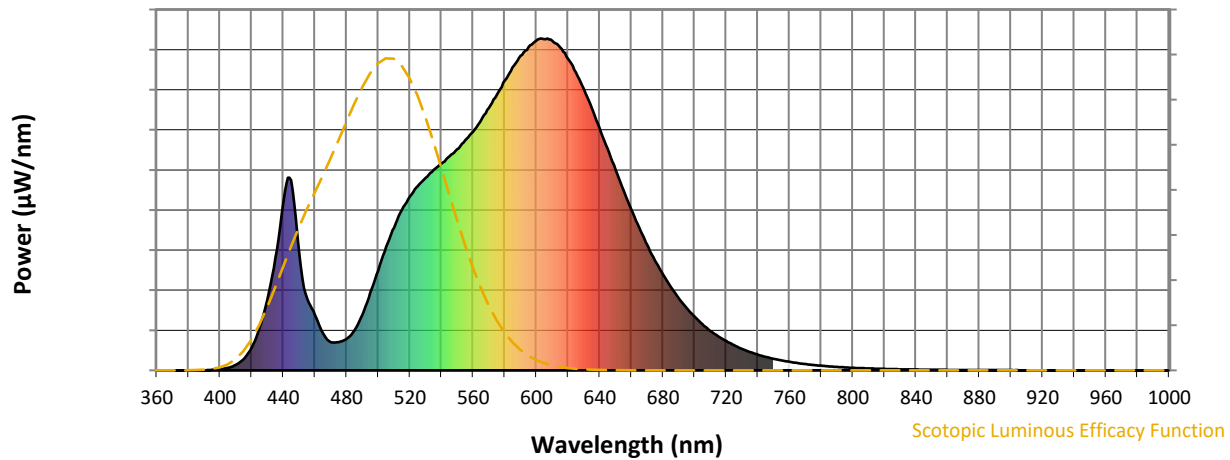


Photopic Lumens: NR

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



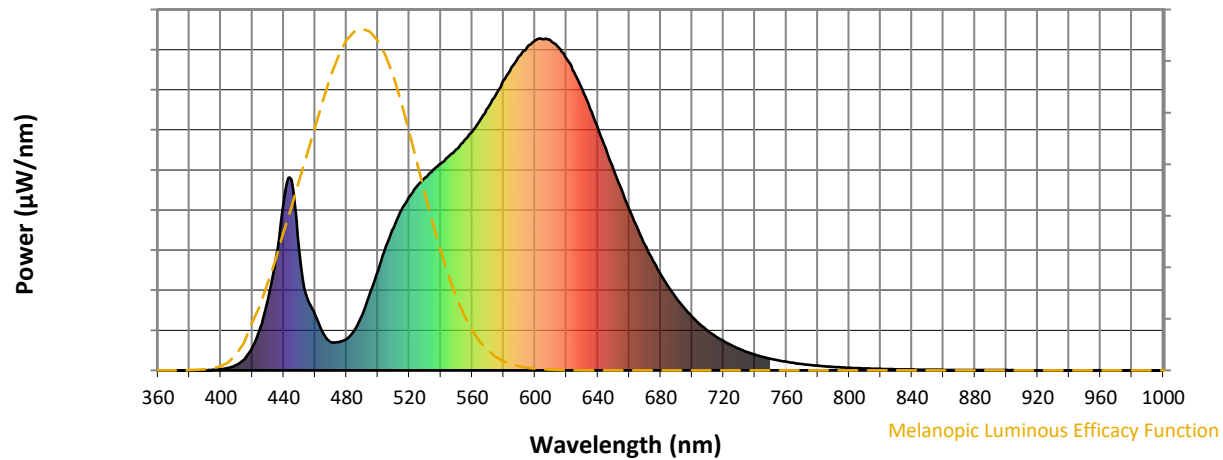
Scotopic Lumens: NR

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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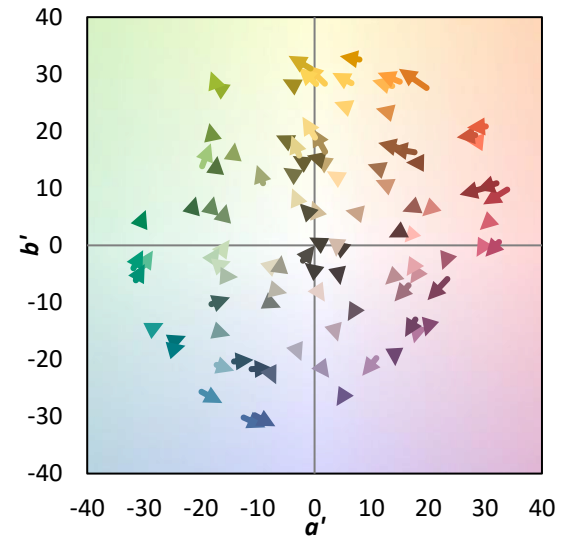
TM-30-18

Summary

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

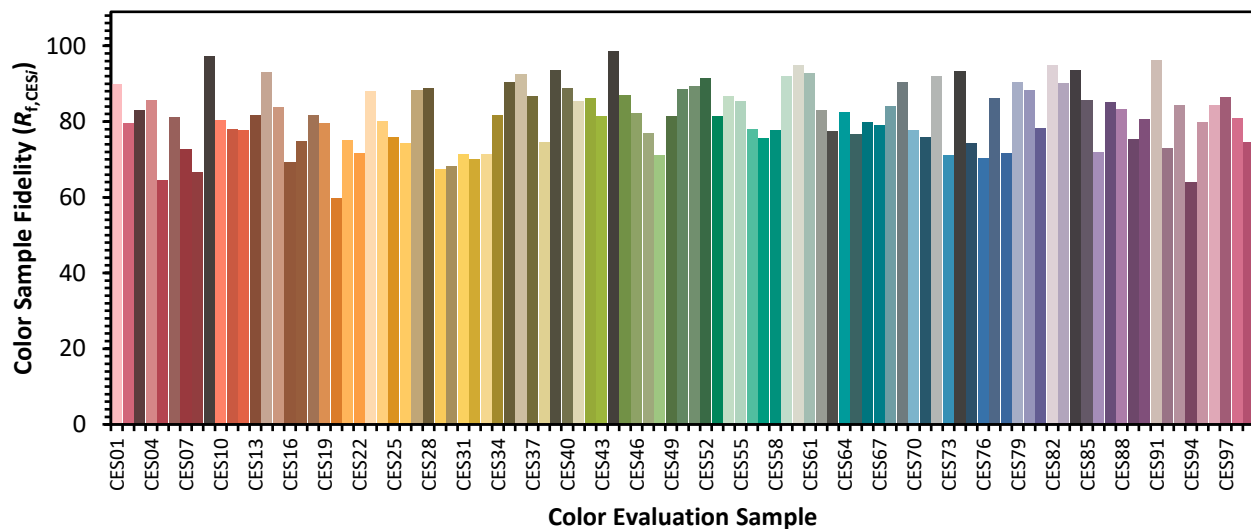


Color Vector Graphics

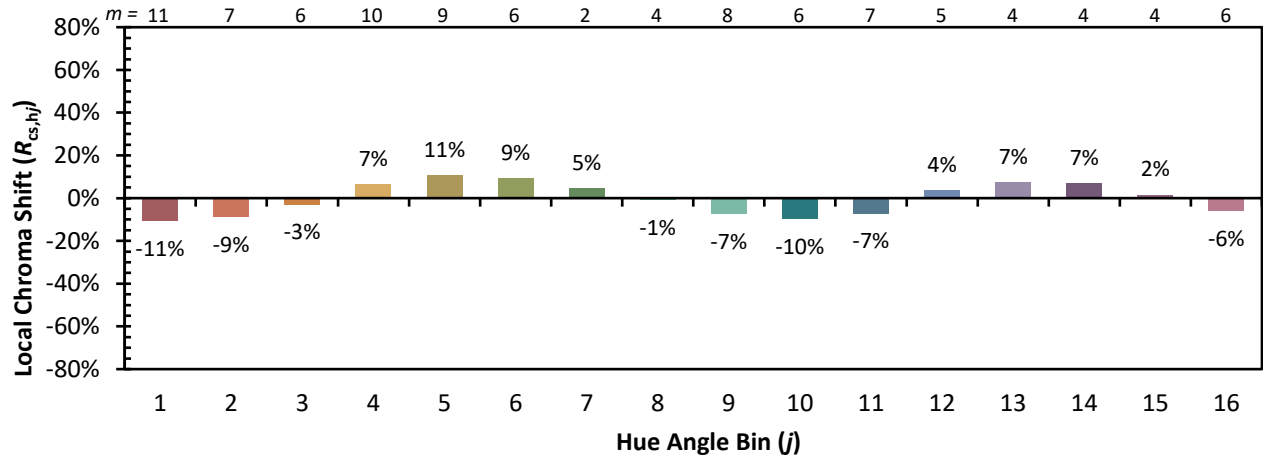


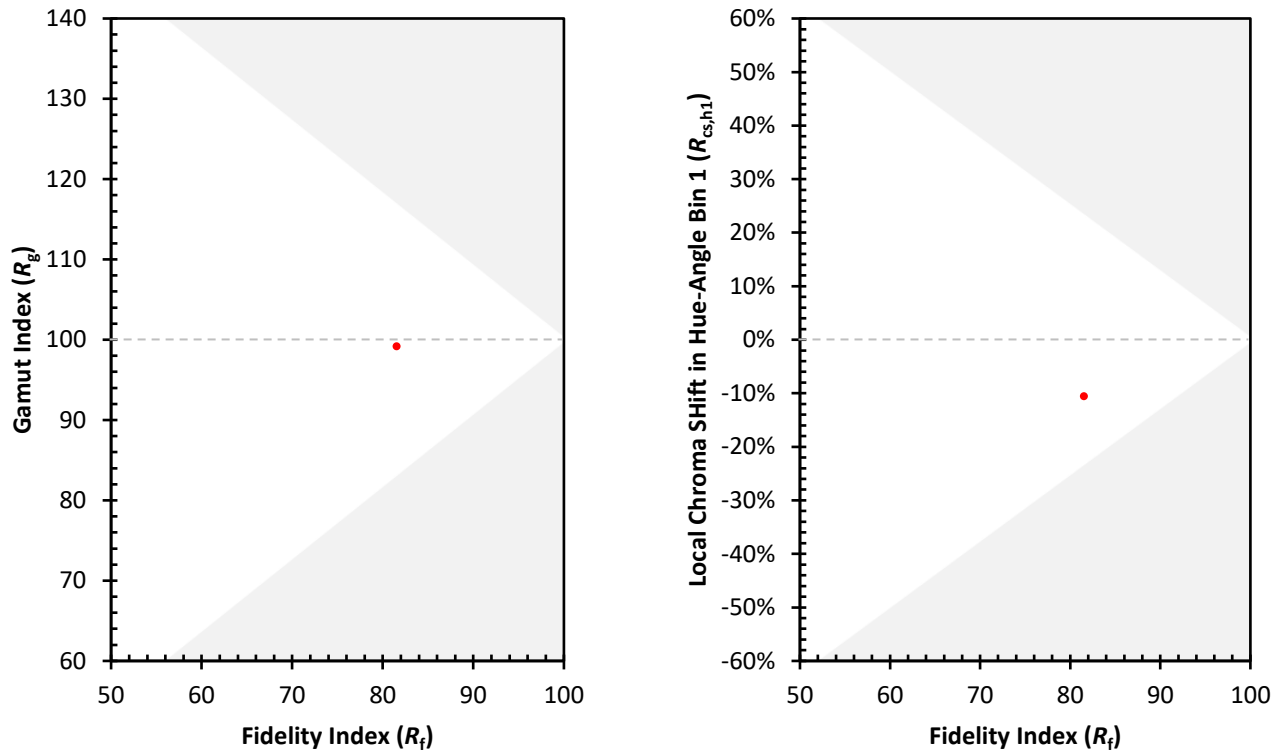
Individual Sample Fidelity Index ($R_{f,i}$)

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)