

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: P319527

Luminaire Tested: **GLEON-SA3C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319527
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-SA3C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 16811 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

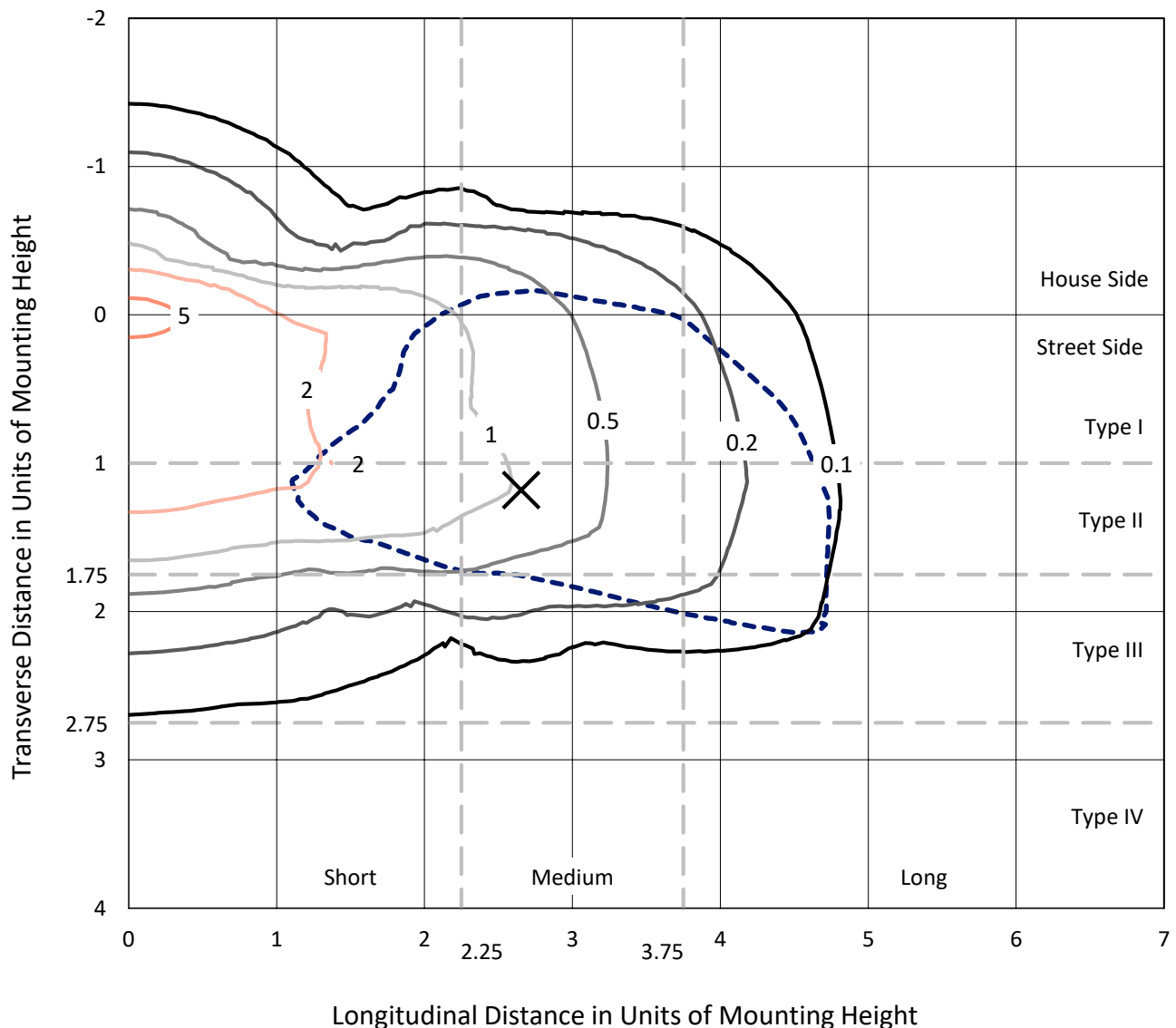
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

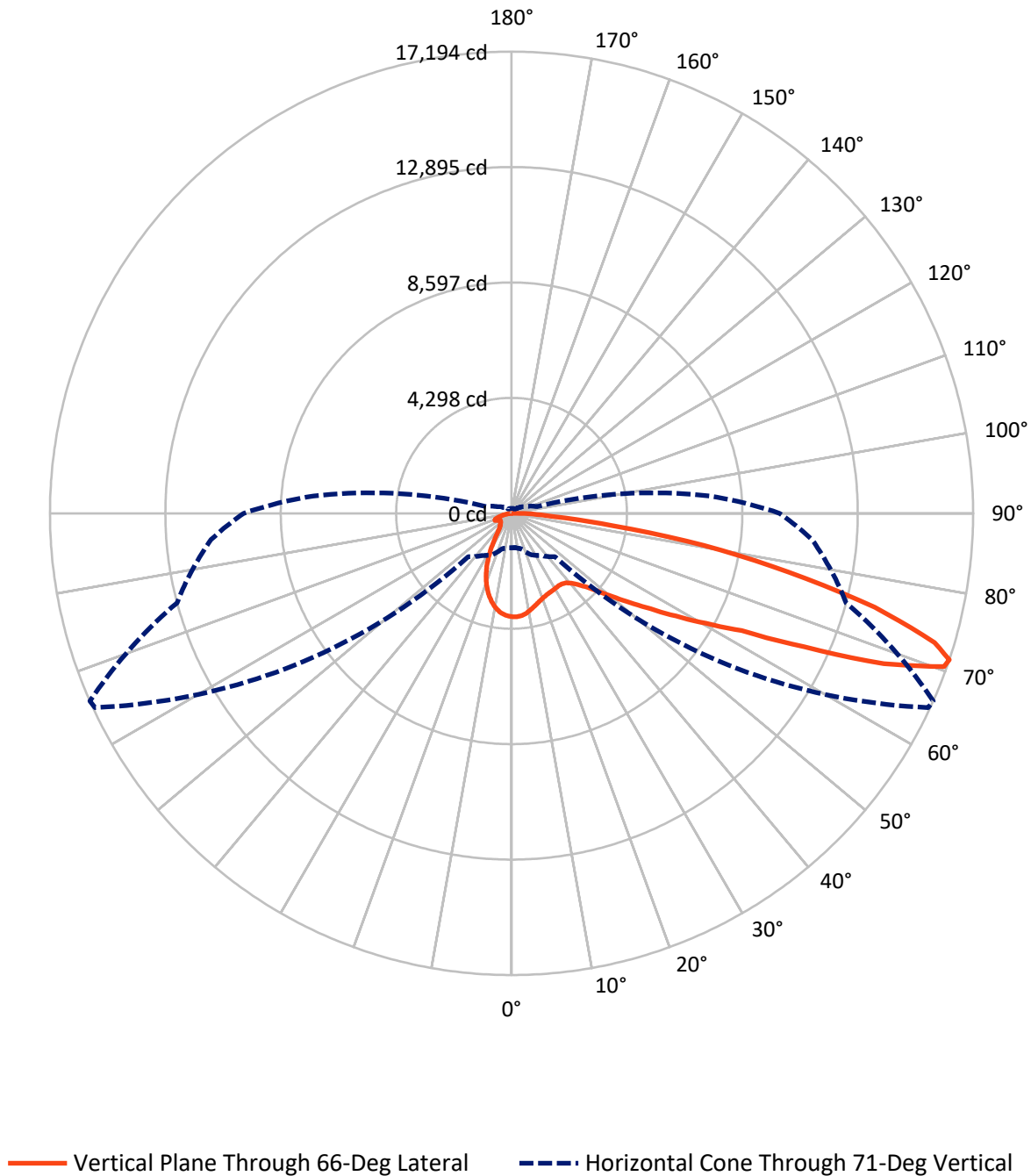
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA3C-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3115.5	0.0	3115.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	13695.5	0.0	13695.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	16811.0	0.0	16811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	2.0
10°-20°	813.0	4.8
20°-30°	1092.1	6.5
30°-40°	1436.7	8.5
40°-50°	2090.0	12.4
50°-60°	3264.7	19.4
60°-70°	4089.6	24.3
70°-80°	3119.5	18.6
80°-90°	566.5	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°	16811.0	100.0
0°-180°	16811.0	100.0

Coefficient of Utilization



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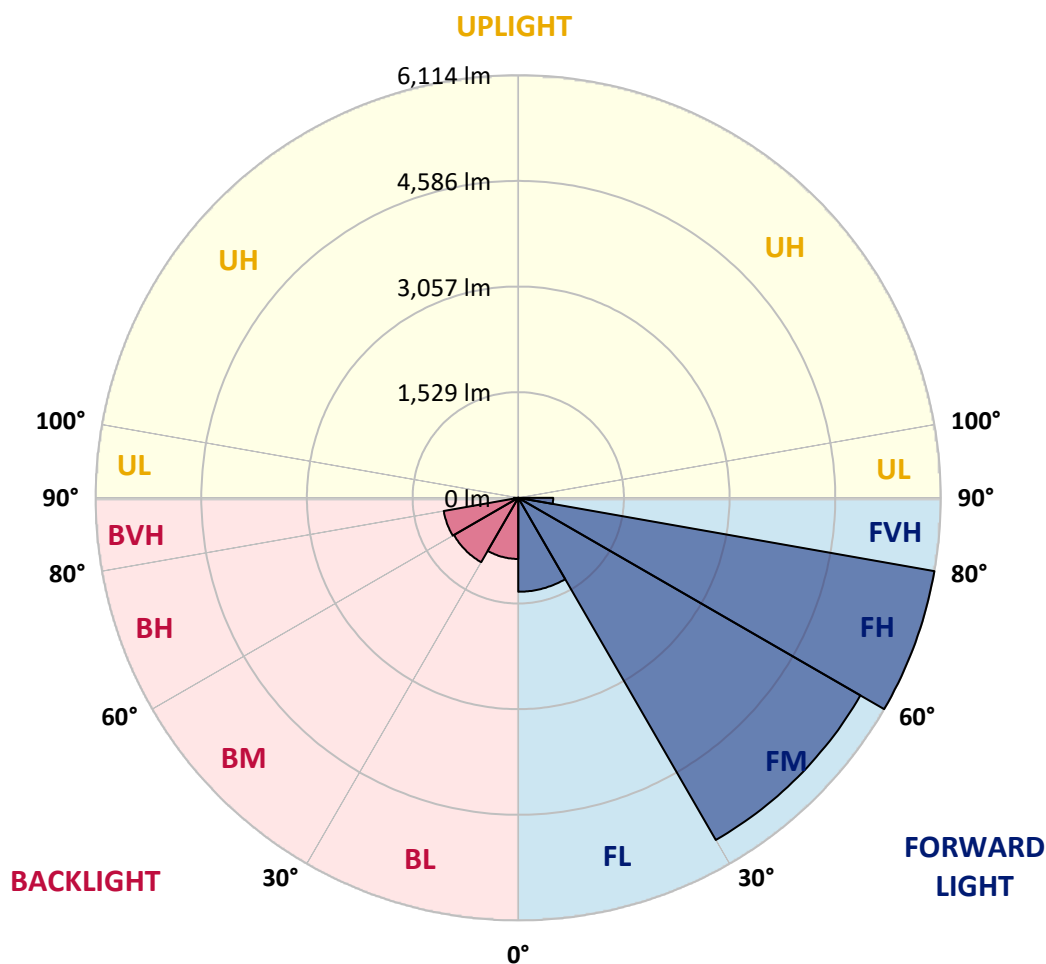
CATALOG NUMBER: GLEON-SA3C-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1359.4	8.1			
FM	(30°-60°)	5716.6	34.0			
FH	(60°-80°)	6114.3	36.4			G3/7500
FVH	(80°-90°)	505.1	3.0			G4/750
BL	(0°-30°)	884.7	5.3	B2/1000		
BM	(30°-60°)	1074.8	6.4	B2/2500		
BH	(60°-80°)	1094.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	61.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1
2.5°	3779.7	3773.9	3791.3	3809.3	3816.2	3827.9	3845.3	3855.1	3854.6	3856.3	3850.5
5°	3528.9	3521.4	3556.2	3584.7	3639.2	3700.7	3775.6	3829.0	3830.2	3860.4	3868.5
7.5°	3291.6	3286.3	3326.4	3372.2	3435.5	3529.5	3650.8	3765.8	3772.7	3854.6	3883.0
10°	3101.2	3100.0	3138.9	3188.8	3262.5	3367.6	3506.9	3675.2	3685.7	3826.7	3885.3
12.5°	2952.6	2954.9	2988.6	3045.5	3123.2	3232.9	3383.8	3573.6	3590.5	3782.6	3872.0
15°	2842.9	2852.2	2879.5	2936.9	3013.5	3125.0	3279.9	3479.6	3505.1	3733.2	3864.4
17.5°	2780.2	2790.7	2809.8	2857.4	2929.4	3036.7	3183.6	3402.4	3425.6	3695.5	3865.0
20°	2761.6	2770.3	2781.4	2810.4	2871.3	2968.8	3107.6	3332.8	3357.7	3665.3	3870.8
22.5°	2798.2	2804.6	2805.7	2803.4	2840.6	2920.1	3052.4	3281.7	3308.4	3645.6	3874.9
25°	2876.6	2885.3	2878.9	2857.4	2845.2	2894.0	3024.0	3248.0	3274.7	3631.1	3866.7
27.5°	2994.4	2995.5	2990.3	2962.5	2905.0	2896.9	3015.3	3228.3	3253.8	3614.3	3849.9
30°	3154.6	3162.1	3152.8	3115.1	3021.1	2943.3	3025.7	3209.1	3232.3	3592.8	3822.6
32.5°	3342.0	3360.6	3360.0	3320.6	3185.9	3047.2	3068.7	3197.5	3215.5	3570.2	3789.6
35°	3536.5	3562.0	3609.6	3592.8	3426.2	3211.5	3151.1	3216.1	3228.3	3567.3	3766.3
37.5°	3738.5	3764.0	3862.1	3907.4	3712.4	3446.5	3281.1	3281.7	3287.5	3602.7	3764.6
40°	3949.7	3977.0	4124.5	4242.3	4083.2	3744.3	3490.6	3418.7	3412.3	3689.7	3798.8
42.5°	4245.8	4270.1	4447.2	4597.5	4494.8	4125.6	3780.3	3629.9	3616.6	3860.4	3908.5
45°	4620.1	4641.0	4829.1	4989.9	4937.0	4560.9	4144.2	3920.7	3918.4	4144.8	4130.8
47.5°	5065.3	5081.6	5250.5	5406.0	5425.2	5061.8	4601.6	4369.4	4331.7	4534.8	4475.0
50°	5529.1	5547.1	5662.0	5829.1	5971.3	5732.2	5190.1	4919.0	4868.5	5049.6	4962.6
52.5°	5836.1	5859.9	5959.7	6171.6	6585.4	6467.0	5886.0	5585.4	5508.7	5673.6	5606.8
55°	5699.1	5752.5	5905.2	6244.7	7076.5	7589.5	6744.5	6362.5	6276.1	6413.0	6373.6
57.5°	5076.3	5149.5	5357.8	5882.0	7145.5	8578.6	8042.3	7277.9	7216.9	7177.5	7195.4
60°	3938.1	4008.4	4266.7	4949.8	6664.4	9300.6	9995.4	8406.2	8318.0	7944.8	7961.0
62.5°	2787.2	2751.8	2928.8	3428.5	5415.3	9385.4	12217.8	9915.3	9625.1	8755.0	8683.6
65°	2125.5	2117.4	2196.9	2355.9	3279.9	8371.4	13541.7	12451.7	11998.4	9708.1	9539.8
67.5°	1746.5	1732.0	1810.3	2041.9	2112.1	5400.8	13570.8	15394.4	14949.3	10894.4	10529.9
70°	1436.0	1419.7	1492.8	1791.8	1951.9	2739.0	11421.5	17117.7	17093.9	12396.6	11277.5
71°	1287.4	1275.8	1363.4	1695.4	1917.7	2282.8	9861.3	17122.3	17193.7	12905.0	11233.4
72.5°	1048.2	1052.3	1145.2	1509.1	1892.2	2015.8	7247.7	16324.3	16475.2	13389.7	10832.3
75°	696.5	700.0	821.9	1160.8	1834.7	1972.3	3983.4	13697.9	13975.3	13099.5	9884.5
77.5°	467.8	466.7	549.7	796.3	1598.5	1972.3	2335.6	10245.0	10549.7	10423.1	7620.3
80°	322.1	319.8	378.4	549.7	1210.2	1996.1	1805.7	7179.8	7272.1	5628.9	3097.1
82.5°	197.3	199.1	247.3	388.3	823.6	1796.4	1704.7	3914.9	3814.5	1578.7	773.7
85°	113.2	112.6	157.9	262.9	528.8	1516.1	1662.3	1685.0	1545.7	475.4	279.8
87.5°	40.6	43.5	84.7	145.7	303.0	1055.8	1410.4	876.4	789.9	214.8	126.5
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°	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1	3851.1
2.5°	3846.4	3849.9	3845.9	3822.6	3802.9	3771.0	3753.0	3728.0	3720.5	3717.0	3726.3
5°	3860.9	3862.1	3827.9	3766.9	3698.4	3617.7	3559.7	3488.3	3454.6	3440.1	3449.4
7.5°	3874.3	3869.1	3794.2	3677.5	3551.0	3410.5	3285.7	3171.4	3104.7	3077.4	3079.7
10°	3876.0	3854.0	3733.8	3553.3	3357.1	3151.1	2959.6	2783.1	2671.7	2599.1	2621.2
12.5°	3858.0	3820.9	3645.0	3392.5	3120.3	2839.4	2580.5	2315.9	2156.8	2083.1	2085.4
15°	3844.1	3776.8	3535.9	3203.3	2837.7	2465.6	2112.1	1801.0	1631.6	1556.1	1520.7
17.5°	3832.5	3729.2	3409.4	2990.3	2503.9	2032.0	1607.2	1329.7	1236.9	1214.8	1205.5
20°	3816.2	3678.7	3268.3	2743.6	2123.8	1546.8	1173.6	1036.6	1037.2	1062.7	1066.2
22.5°	3793.6	3621.2	3118.0	2466.8	1715.7	1126.6	920.0	880.5	920.5	969.3	978.0
25°	3759.9	3553.3	2950.8	2160.9	1308.3	866.0	785.9	784.1	832.9	884.0	891.5
27.5°	3712.4	3464.5	2765.1	1832.4	964.1	736.0	704.0	716.2	752.2	789.4	792.3
30°	3648.5	3361.2	2560.2	1485.9	755.7	655.3	651.8	662.8	684.9	711.0	713.3
32.5°	3578.3	3256.1	2341.4	1150.4	647.2	611.8	615.2	620.5	630.9	641.4	643.7
35°	3514.4	3148.8	2117.4	874.1	595.5	583.3	581.0	579.8	581.0	577.5	578.1
37.5°	3473.2	3060.0	1884.0	695.9	565.9	558.4	551.4	542.7	532.8	527.0	528.2
40°	3458.1	2993.8	1647.8	601.3	541.5	536.3	523.0	504.4	492.8	489.3	489.3
42.5°	3498.8	2959.6	1419.7	553.7	521.2	512.5	490.5	469.0	460.3	459.7	459.1
45°	3623.0	2973.5	1202.6	527.6	502.6	485.8	456.8	438.8	433.0	434.2	433.6
47.5°	3845.9	3061.1	1016.9	510.2	484.1	462.0	429.5	415.0	408.0	408.0	408.6
50°	4224.9	3266.0	868.9	495.7	468.4	440.0	409.8	391.8	382.5	381.9	381.9
52.5°	4776.8	3632.8	776.6	483.5	451.0	420.2	390.0	367.4	356.4	354.1	352.9
55°	5468.7	4158.7	751.1	475.4	427.8	398.7	366.2	343.6	331.4	326.2	325.6
57.5°	6242.4	4798.3	801.6	465.5	404.0	373.2	340.1	318.6	305.9	299.5	298.9
60°	7025.4	5496.6	1007.6	451.6	384.2	345.3	313.4	293.7	280.9	274.0	272.8
62.5°	7809.5	6232.5	1428.4	450.4	370.3	318.6	286.1	269.3	257.1	249.6	247.8
65°	8694.1	7038.2	1906.7	481.2	365.7	294.3	258.3	244.9	234.5	227.5	226.9
67.5°	9709.8	7947.7	1860.8	544.4	381.3	272.2	232.2	221.7	214.2	208.4	207.8
70°	10186.3	7805.5	1156.8	589.1	403.4	250.7	207.2	199.7	193.9	189.8	188.1
71°	9986.7	7411.4	969.9	583.9	401.1	241.5	197.3	191.5	185.7	182.3	180.5
72.5°	9442.2	6759.0	809.1	543.3	375.0	224.6	184.6	178.8	173.5	169.5	168.3
75°	8472.9	6036.3	647.7	434.2	298.9	189.8	161.9	155.6	151.5	149.2	146.8
77.5°	6228.5	4307.9	500.9	343.0	220.0	155.0	138.1	133.5	129.4	126.0	124.2
80°	2386.1	1668.7	337.2	256.0	161.4	122.5	111.4	109.1	105.1	102.7	102.7
82.5°	642.5	498.6	179.9	155.0	108.0	89.4	85.3	84.2	80.7	76.0	76.6
85°	260.0	220.0	101.0	85.3	66.2	52.8	57.5	58.0	54.0	48.2	48.8
87.5°	114.3	93.4	56.3	37.7	29.0	20.3	26.1	26.1	23.8	19.7	18.0
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 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



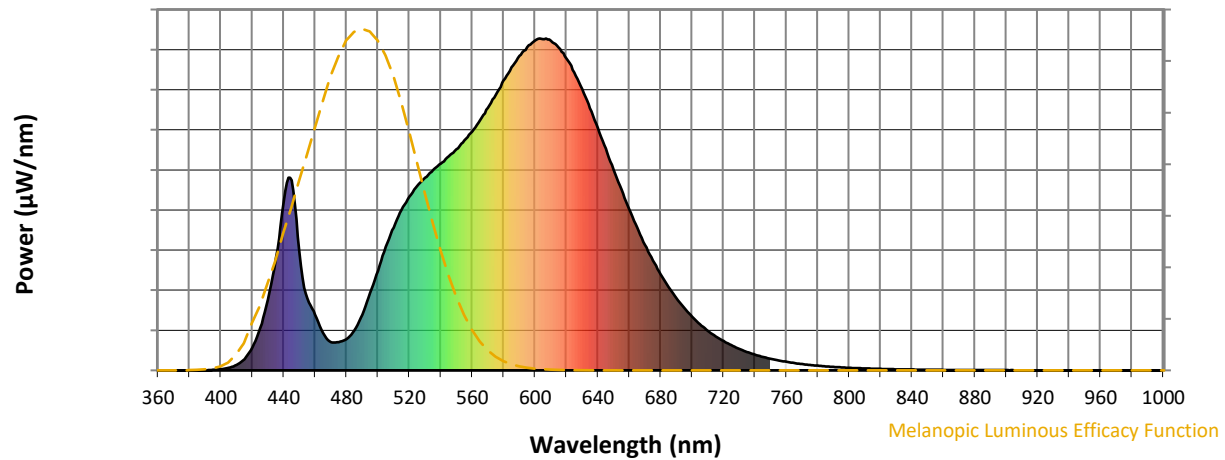
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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			

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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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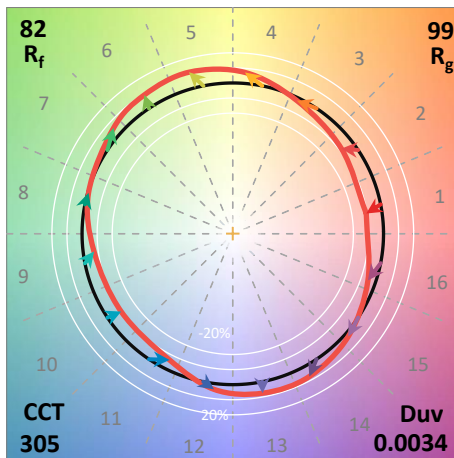
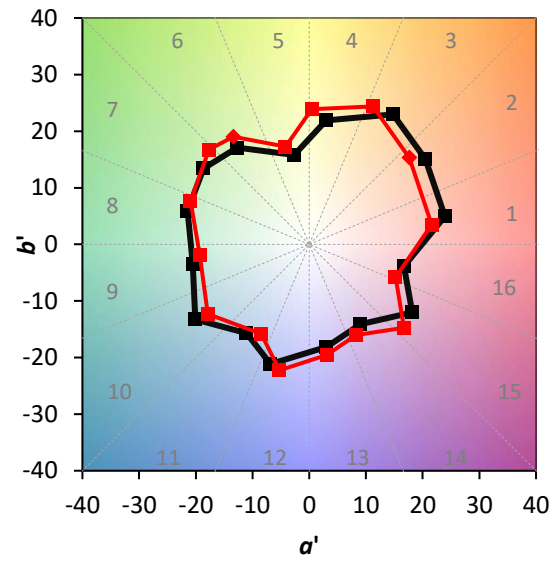
TM-30-18

Summary

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



Color Vector Graphics

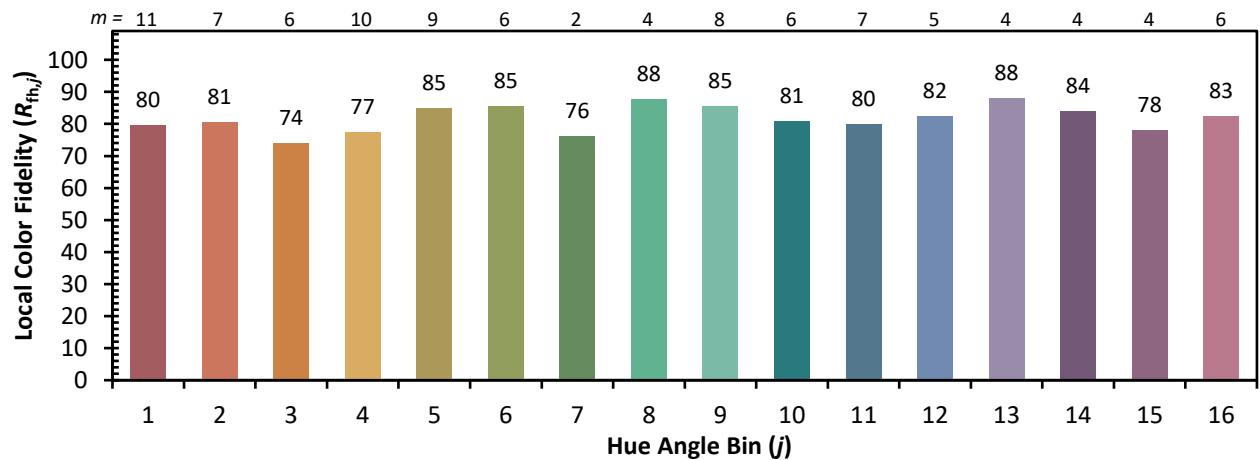
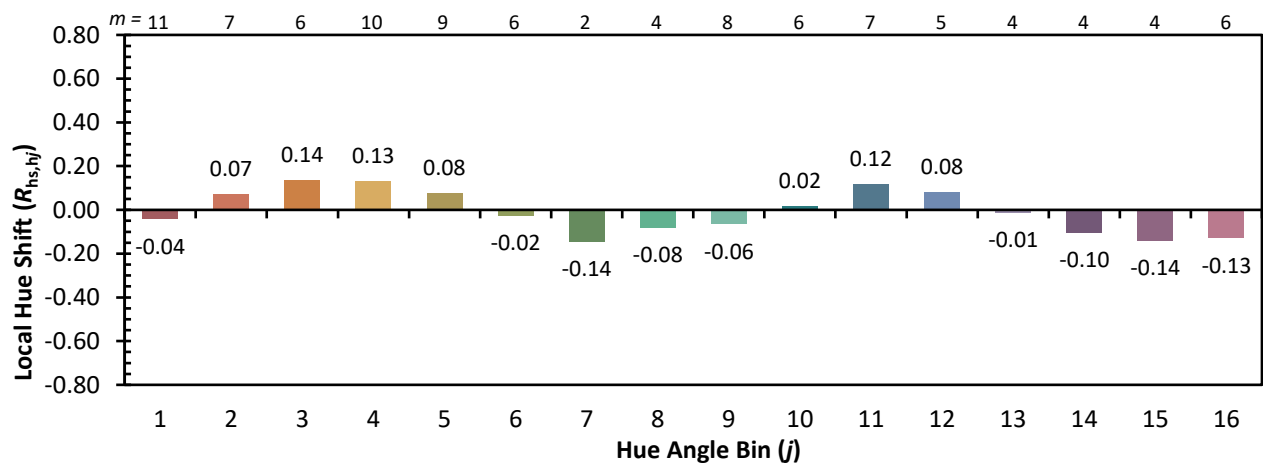
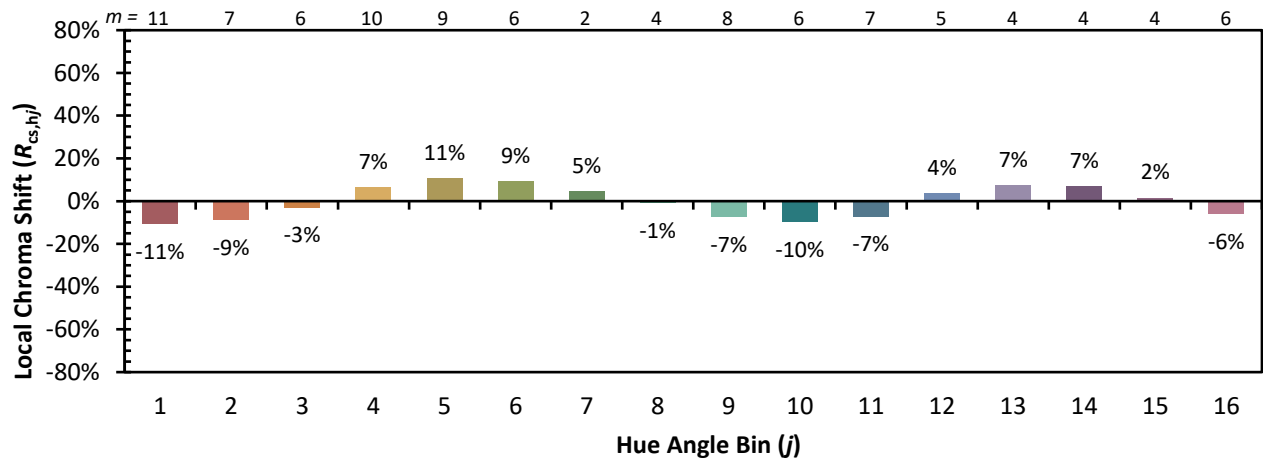


Individual Sample Fidelity Index ($R_{f,i}$)

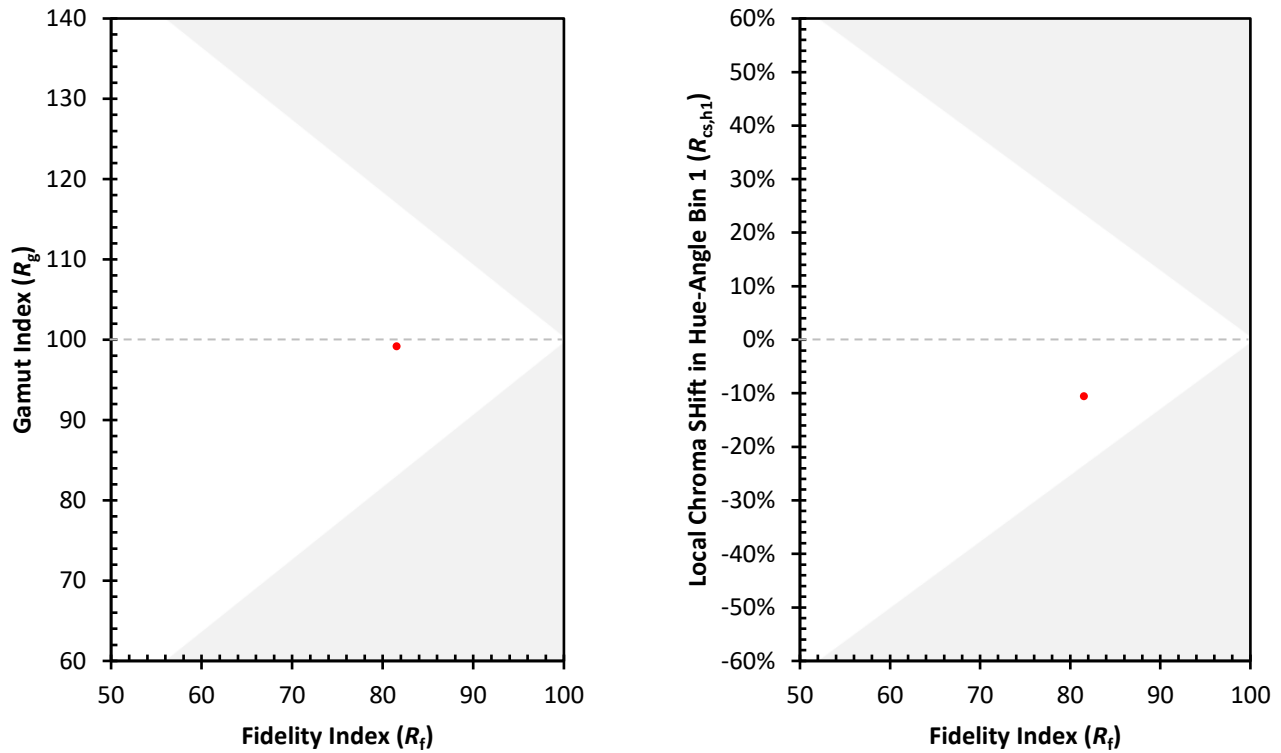
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)