

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: P322410

Luminaire Tested: **GLEON-SA6C-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24497 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

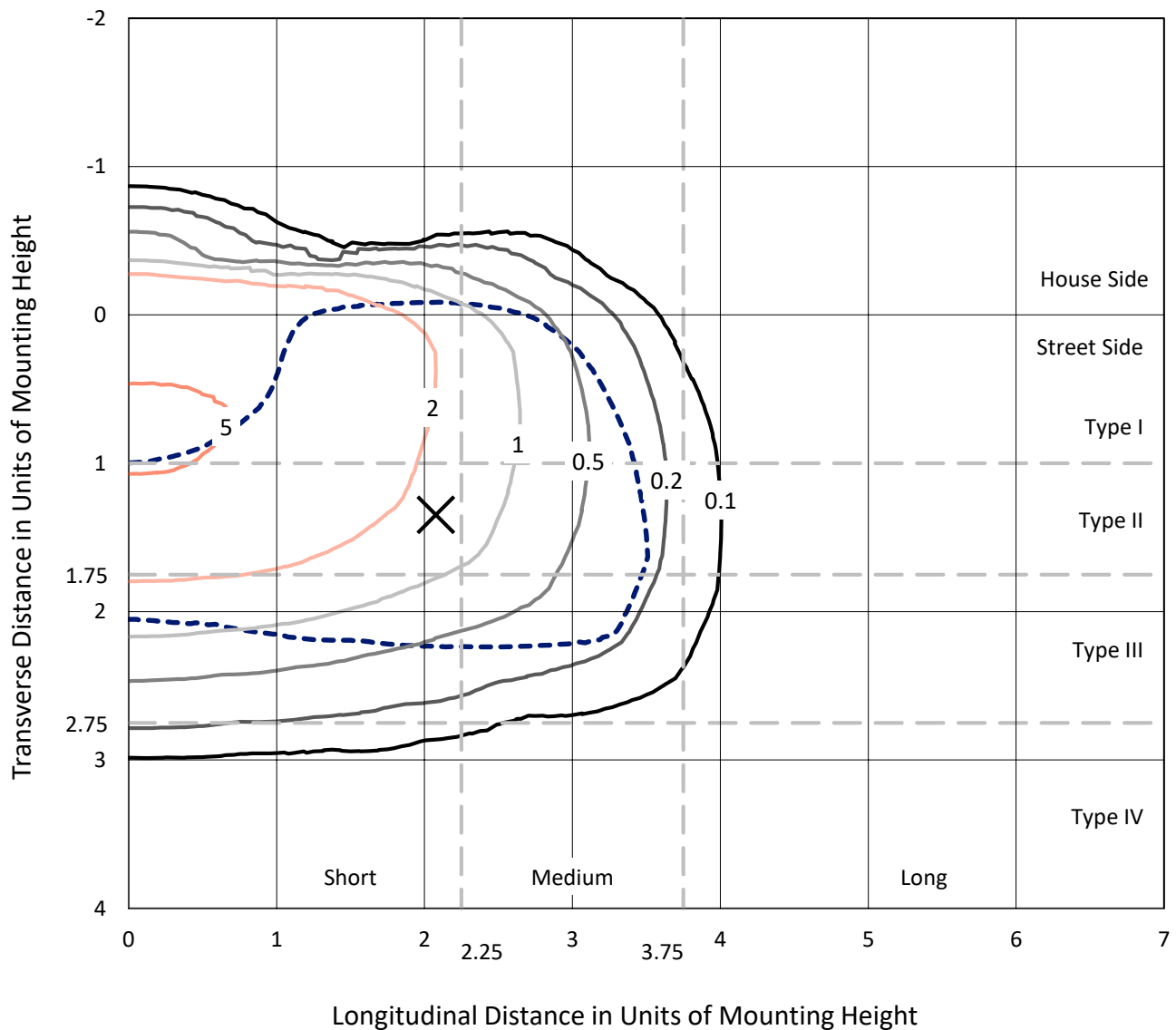
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

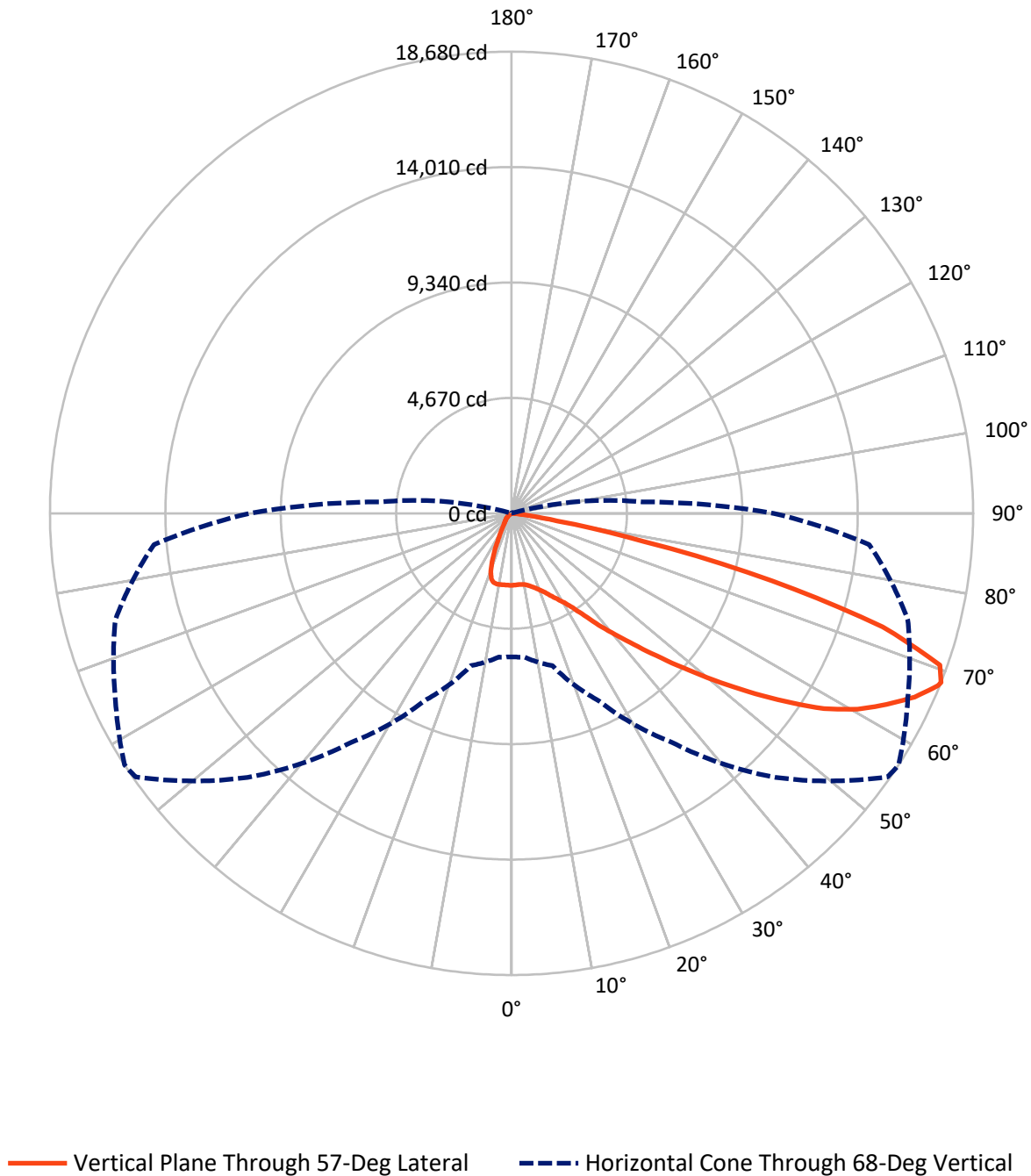
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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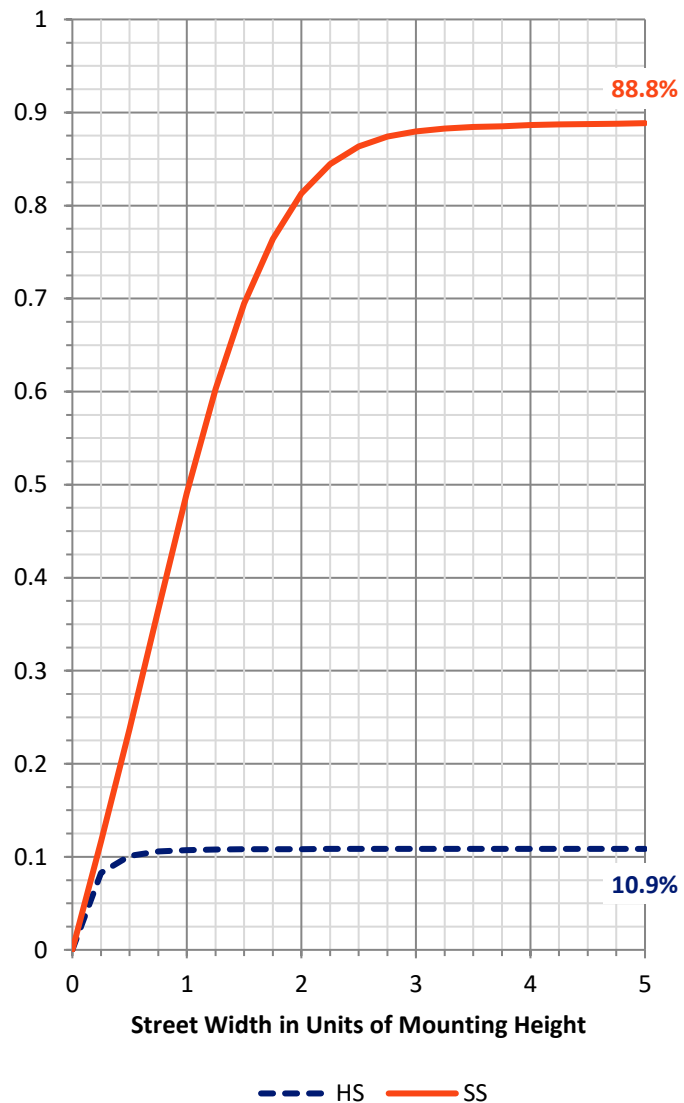
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2686.2	0.0	2686.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21810.7	0.0	21810.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	24497.0	0.0	24497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.1
10°-20°	754.9	3.1
20°-30°	1302.3	5.3
30°-40°	2247.6	9.2
40°-50°	3844.6	15.7
50°-60°	6151.0	25.1
60°-70°	7106.8	29.0
70°-80°	2715.6	11.1
80°-90°	101.8	0.4
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°	24497.0	100.0
0°-180°	24497.0	100.0

Coefficient of Utilization



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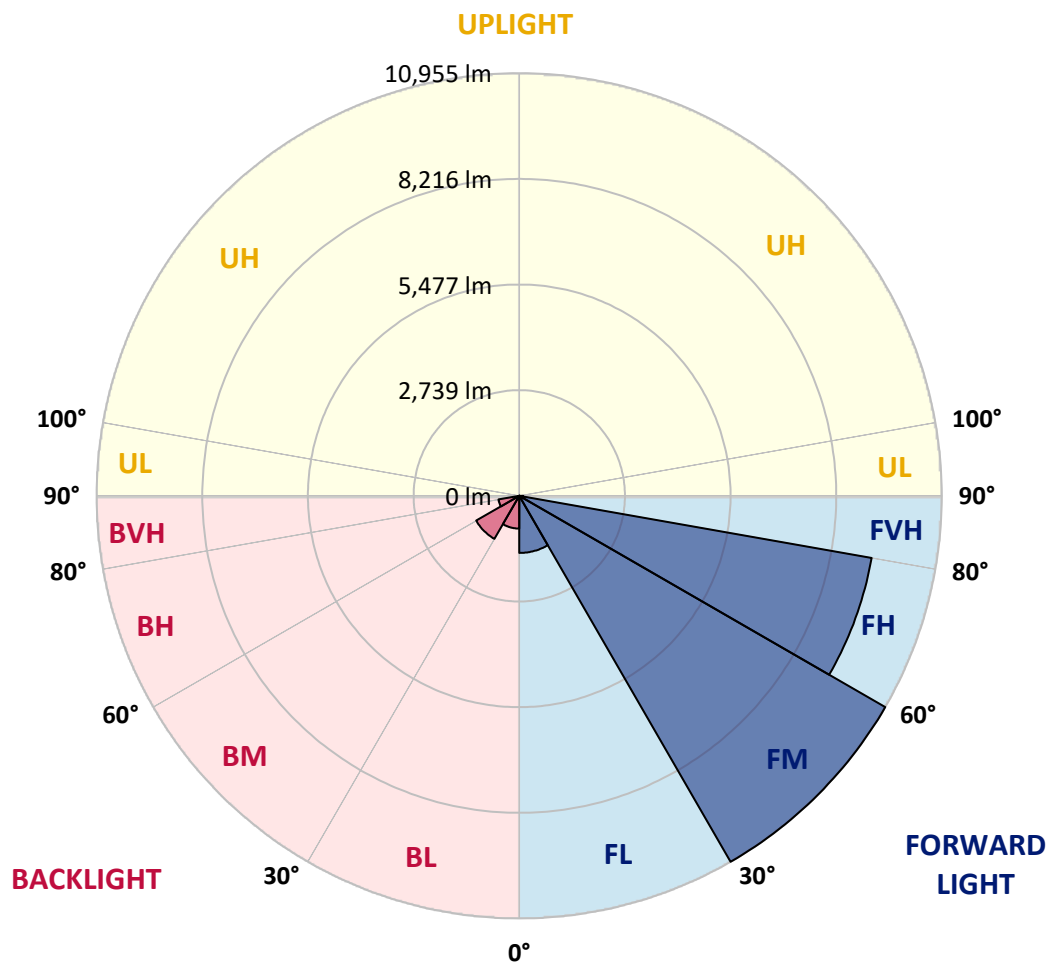
CATALOG NUMBER: GLEON-SA6C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.6	6.0			
FM	(30°-60°)	10954.9	44.7			
FH	(60°-80°)	9275.3	37.9			G4/12000
FVH	(80°-90°)	99.9	0.4			G1/100
BL	(0°-30°)	848.9	3.5	B2/1000		
BM	(30°-60°)	1288.4	5.3	B2/2500		
BH	(60°-80°)	547.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9
2.5°	2842.5	2855.3	2864.6	2870.3	2877.3	2892.4	2897.0	2903.9	2907.4	2907.4	2915.5
5°	2730.2	2744.1	2763.8	2780.0	2812.4	2854.1	2884.2	2895.8	2916.7	2935.2	2945.6
7.5°	2625.9	2642.2	2665.3	2703.5	2759.1	2826.3	2888.9	2905.1	2945.6	2985.0	3004.7
10°	2558.8	2571.5	2601.6	2656.1	2729.0	2822.9	2910.9	2930.6	3000.1	3066.1	3103.2
12.5°	2535.6	2547.2	2578.4	2639.8	2730.2	2840.2	2961.9	2990.8	3092.7	3188.9	3241.0
15°	2569.2	2571.5	2605.1	2663.0	2752.2	2883.1	3046.4	3081.2	3209.7	3334.8	3399.7
17.5°	2698.9	2688.5	2705.9	2731.3	2802.0	2939.8	3135.6	3187.7	3359.2	3506.3	3567.7
20°	3023.2	3023.2	2983.9	2914.4	2915.5	3027.9	3256.1	3315.1	3524.8	3695.1	3750.7
22.5°	3578.1	3567.7	3488.9	3318.6	3162.2	3179.6	3403.2	3479.6	3724.0	3905.9	3924.4
25°	4245.3	4232.5	4110.9	3871.1	3600.1	3425.2	3602.4	3690.4	3961.5	4122.5	4084.3
27.5°	4951.9	4941.4	4821.0	4523.3	4137.6	3816.7	3839.9	3923.3	4203.6	4362.3	4240.7
30°	5636.4	5639.9	5520.6	5214.8	4778.1	4315.9	4141.0	4189.7	4438.7	4599.7	4426.0
32.5°	6287.4	6292.1	6189.0	5847.3	5439.5	4896.3	4558.0	4545.3	4712.1	4870.8	4671.6
35°	6867.8	6879.3	6808.7	6543.4	6111.4	5542.6	5099.0	5068.9	5100.1	5279.7	5048.0
37.5°	7427.2	7434.2	7380.9	7157.3	6795.9	6252.7	5782.4	5739.5	5672.4	5810.2	5544.9
40°	8040.0	8022.6	7961.2	7758.5	7448.1	7036.9	6516.8	6442.6	6325.7	6448.4	6198.2
42.5°	8609.9	8590.2	8600.6	8371.3	8109.5	7843.1	7372.8	7245.4	7177.0	7318.3	6999.8
45°	9322.3	9311.8	9346.6	9147.4	8935.4	8741.9	8353.9	8214.9	8184.8	8350.4	7969.3
47.5°	10025.4	10050.9	10158.6	10074.0	9988.3	9818.0	9392.9	9330.4	9348.9	9549.3	8992.1
50°	10611.5	10641.6	10937.0	11034.3	11158.2	11058.6	10632.3	10594.1	10667.1	10847.8	10092.6
52.5°	11035.4	11096.8	11464.0	11912.3	12364.0	12431.2	12006.1	11971.4	12069.8	12097.6	10942.8
55°	11329.6	11384.1	11799.9	12620.0	13539.7	13829.3	13565.2	13430.9	13412.3	13137.8	11837.0
57.5°	11381.8	11376.0	11973.7	13077.6	14461.8	15208.9	15042.1	14910.1	14530.1	14099.2	12862.1
60°	11087.6	11121.1	11815.0	13236.3	15040.9	16252.6	16265.3	16093.9	15502.0	15034.0	13856.0
62.5°	10181.7	10318.4	11019.2	12820.4	15034.0	16673.0	17161.9	17031.0	16323.2	15799.7	14863.7
65°	8713.0	8761.6	9430.0	11395.7	14018.1	16497.0	17969.2	17920.6	17063.4	16543.3	15381.5
67.5°	6362.7	6257.3	6959.3	8973.6	11868.3	15470.7	18548.4	18609.8	17634.5	16696.2	14830.1
68°	5806.7	5838.0	6384.7	8374.7	11305.3	15108.1	18586.6	18680.4	17691.2	16596.6	14529.0
70°	3461.1	3521.3	4009.0	5766.2	8600.6	13056.7	18174.2	18388.5	17353.0	15569.1	12566.7
72.5°	883.8	955.6	1416.6	2580.8	4912.5	9199.5	15342.1	15704.7	15066.4	12630.5	8483.6
75°	363.7	382.2	506.2	850.2	1830.2	4144.5	10112.2	10888.3	10444.7	7561.6	3834.1
77.5°	251.4	264.1	325.5	471.4	792.3	1405.1	4957.7	5518.3	4971.6	2580.8	836.3
80°	180.7	191.1	232.8	313.9	455.2	501.6	1615.9	1868.4	1483.8	566.4	207.3
82.5°	107.7	115.8	173.7	223.6	276.8	239.8	401.9	456.4	429.7	281.5	92.7
85°	53.3	62.5	117.0	159.8	149.4	100.8	122.8	136.7	169.1	171.4	49.8
87.5°	3.5	6.9	68.3	96.1	41.7	23.2	35.9	44.0	60.2	84.6	20.8
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°	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9
2.5°	2919.0	2920.2	2912.0	2908.6	2910.9	2897.0	2891.2	2893.5	2893.5	2897.0	2891.2
5°	2948.0	2948.0	2934.1	2915.5	2905.1	2878.5	2861.1	2856.4	2853.0	2850.7	2846.0
7.5°	3010.5	3003.6	2979.2	2938.7	2903.9	2846.0	2802.0	2778.8	2767.3	2762.6	2759.1
10°	3111.3	3098.5	3058.0	2982.7	2902.8	2799.7	2703.5	2635.2	2578.4	2555.3	2541.4
12.5°	3246.8	3228.3	3159.9	3034.8	2894.7	2704.7	2496.2	2295.8	2109.3	2032.9	1994.6
15°	3403.2	3376.5	3268.8	3078.8	2847.2	2490.4	2037.5	1686.5	1428.2	1330.9	1289.2
17.5°	3561.9	3527.1	3363.8	3106.6	2704.7	2046.8	1429.4	1079.6	907.0	860.6	844.4
20°	3721.7	3670.8	3446.0	3085.8	2382.7	1475.7	942.9	788.8	739.0	725.1	720.5
22.5°	3873.5	3794.7	3520.2	3004.7	1886.9	990.4	746.0	697.3	681.1	673.0	670.7
25°	4005.5	3895.5	3585.0	2754.5	1335.6	748.3	671.8	655.6	634.8	619.7	620.9
27.5°	4129.5	3996.2	3624.4	2342.1	890.8	639.4	622.0	600.0	561.8	539.8	539.8
30°	4278.9	4130.6	3653.4	1802.4	655.6	565.3	551.4	517.8	465.6	436.7	436.7
32.5°	4503.6	4334.5	3634.8	1264.9	543.3	496.9	464.5	418.2	361.4	333.6	332.4
35°	4847.6	4649.5	3502.8	829.4	479.5	432.1	379.9	323.2	273.4	250.2	249.0
37.5°	5311.0	5071.2	3206.3	593.1	429.7	371.8	309.3	246.7	209.7	194.6	193.4
40°	5912.1	5561.2	2782.3	480.7	383.4	313.9	238.6	191.1	165.6	154.1	155.2
42.5°	6633.8	6085.9	2273.8	414.7	338.2	258.3	186.5	150.6	134.4	126.3	123.9
45°	7435.3	6603.7	1741.0	369.5	293.1	208.5	145.9	119.3	106.6	101.9	101.9
47.5°	8316.8	7107.5	1274.2	330.1	244.4	161.0	117.0	97.3	86.9	83.4	82.2
50°	9117.2	7457.3	918.6	288.4	200.4	127.4	95.0	81.1	74.1	69.5	69.5
52.5°	9784.4	7567.4	676.5	243.2	162.2	101.9	78.8	69.5	62.5	59.1	59.1
55°	10371.7	7522.2	502.7	200.4	130.9	83.4	67.2	59.1	53.3	49.8	49.8
57.5°	10934.7	7376.3	375.3	163.3	105.4	67.2	56.8	49.8	44.0	41.7	41.7
60°	11394.5	7133.0	279.2	132.0	84.6	54.4	47.5	40.5	35.9	32.4	32.4
62.5°	11767.5	6864.3	205.0	108.9	67.2	42.9	37.1	33.6	26.6	23.2	23.2
65°	11769.8	6418.3	154.1	90.3	52.1	33.6	27.8	26.6	17.4	13.9	12.7
67.5°	10918.4	5533.4	118.1	77.6	40.5	25.5	20.8	22.0	9.3	5.8	4.6
68°	10609.2	5308.6	111.2	76.4	38.2	24.3	19.7	22.0	8.1	4.6	3.5
70°	8944.6	4223.3	89.2	74.1	33.6	18.5	16.2	22.0	6.9	3.5	2.3
72.5°	5721.0	2451.0	66.0	59.1	25.5	13.9	10.4	19.7	6.9	2.3	1.2
75°	2434.8	759.9	45.2	41.7	15.1	10.4	6.9	12.7	4.6	1.2	0.0
77.5°	513.1	171.4	26.6	25.5	10.4	6.9	4.6	3.5	1.2	0.0	0.0
80°	132.0	49.8	13.9	12.7	5.8	3.5	2.3	0.0	0.0	0.0	0.0
82.5°	41.7	19.7	8.1	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
 Rf: 81.5
 Rg: 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

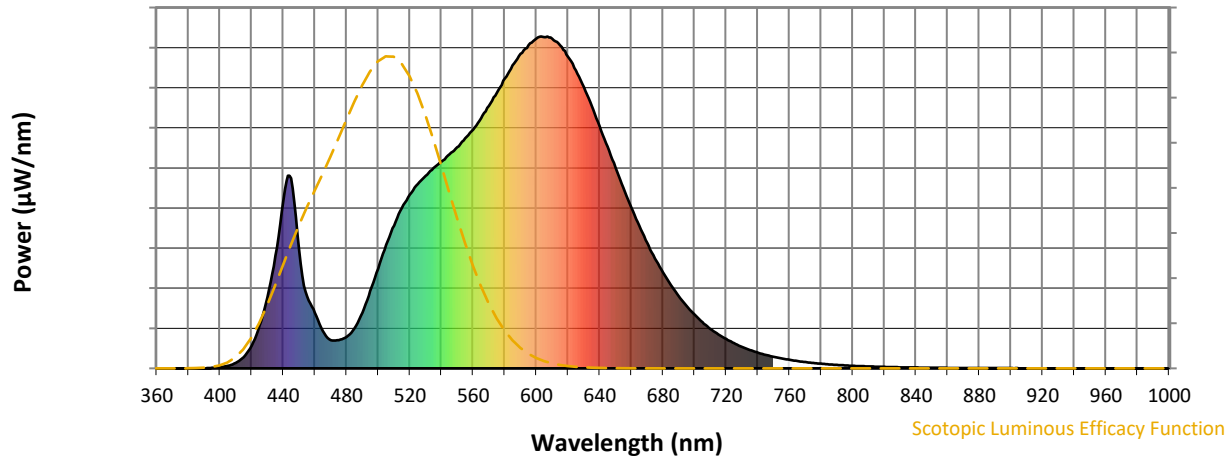


Photopic Lumens: NR

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



Scotopic Lumens: NR

S/P: 1.27

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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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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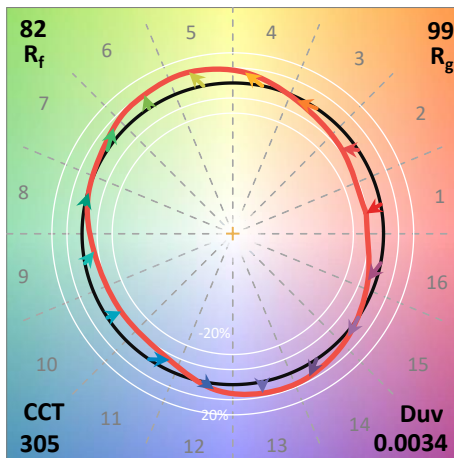
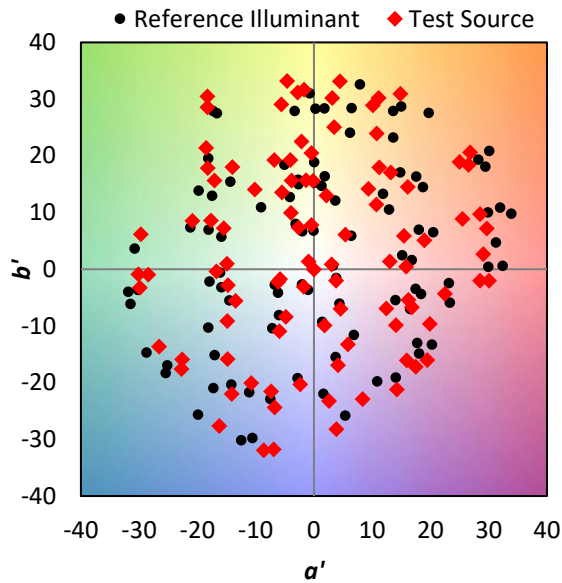
TM-30-18

Summary

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



Color Vector Graphics

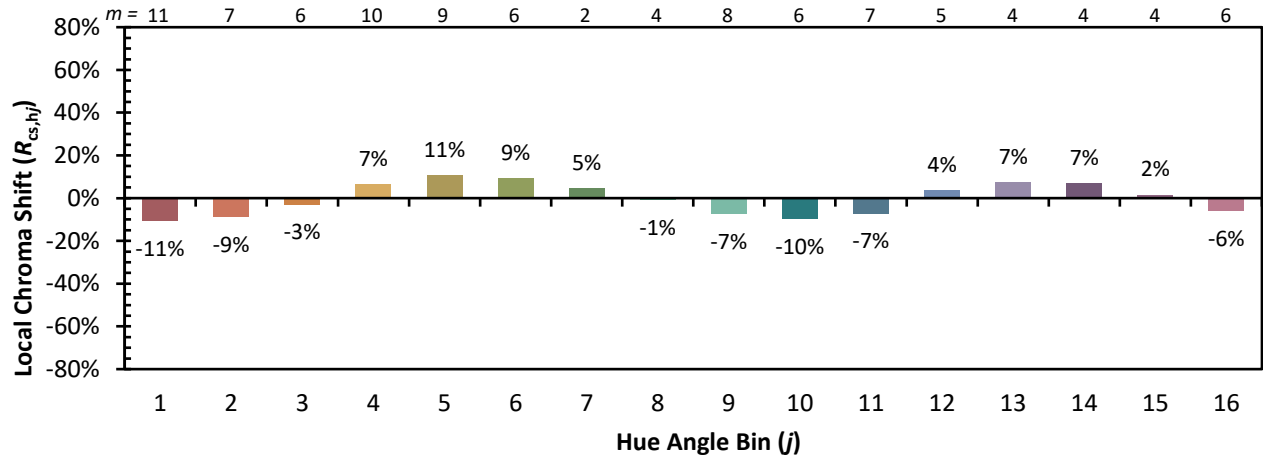


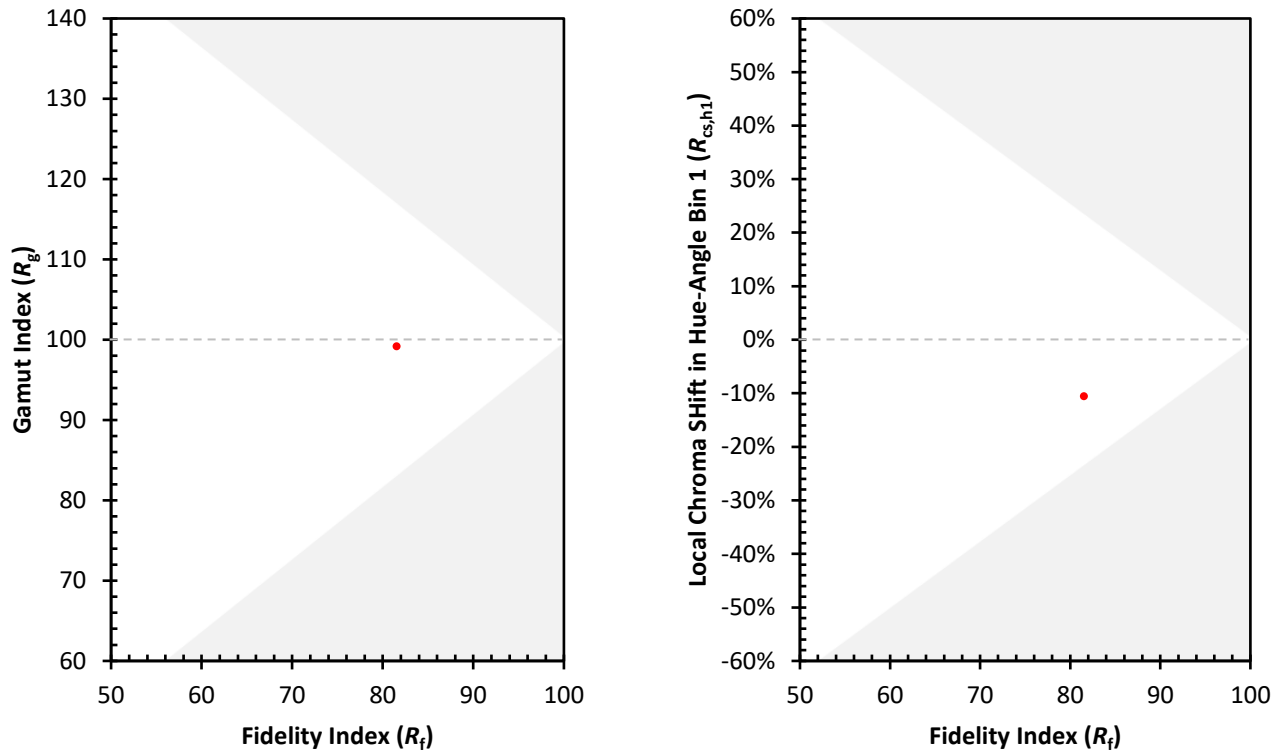
Individual Sample Fidelity Index ($R_{f,i}$)

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)