

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: P322730

Luminaire Tested: **GLEON-SA6C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23873 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

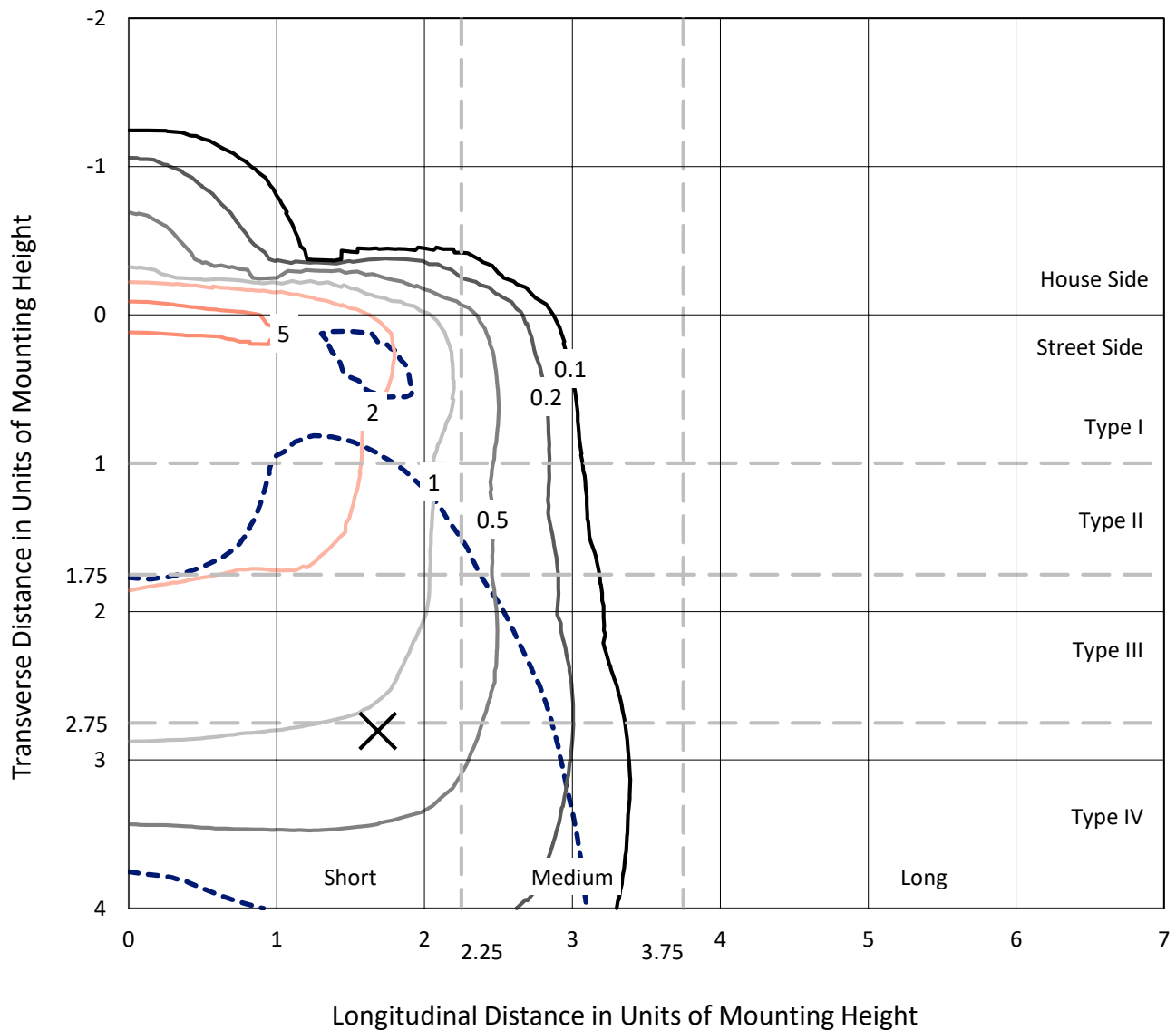
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

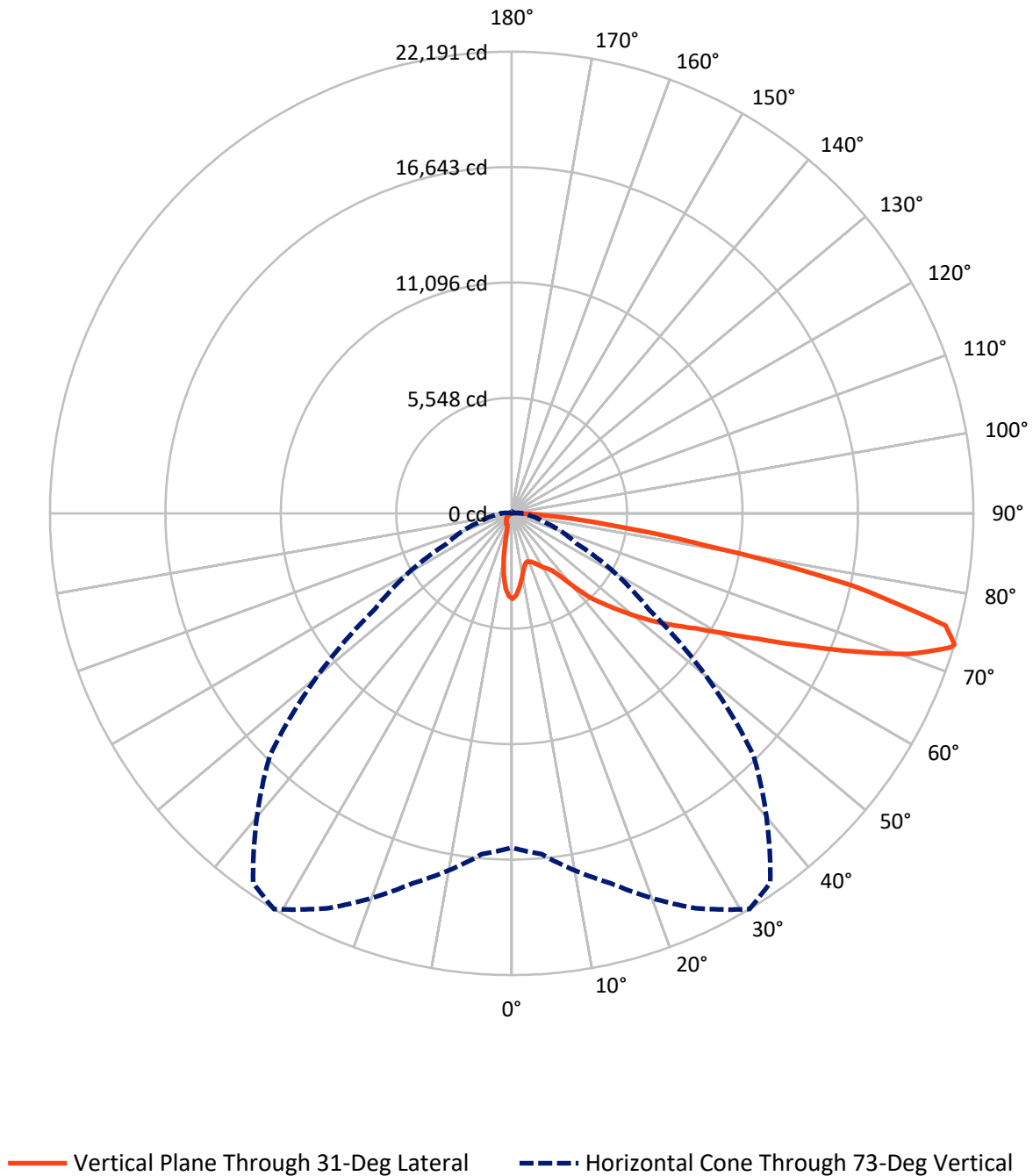
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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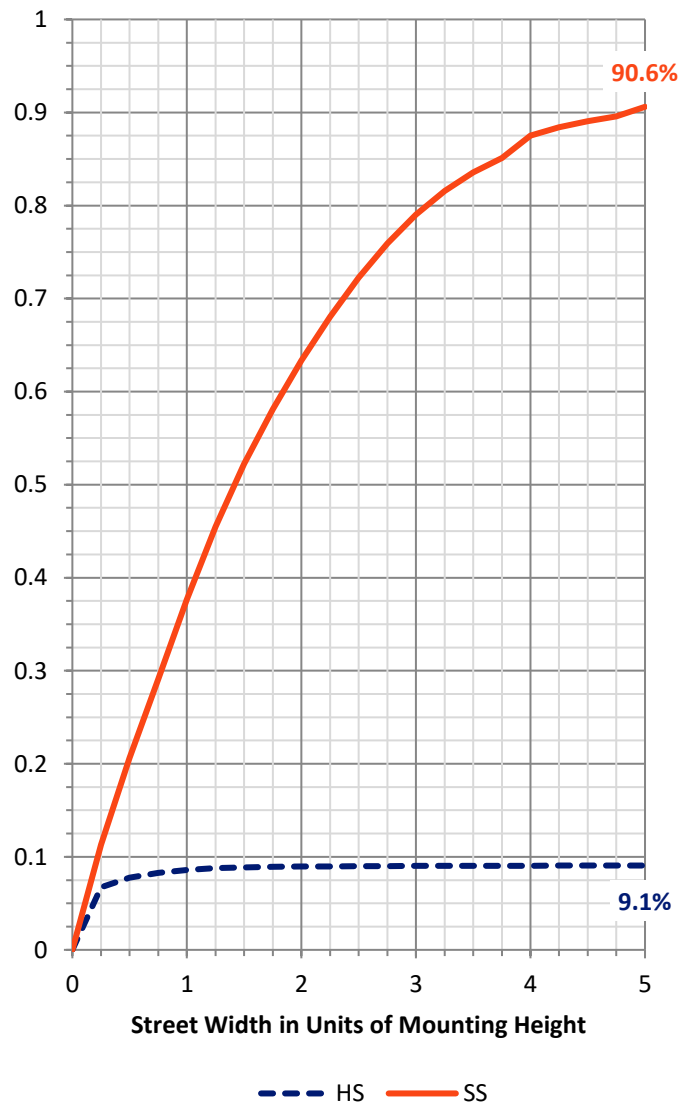
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.1	0.0	2176.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21696.9	0.0	21696.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	23873.0	0.0	23873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.6	1.4
10°-20°	739.5	3.1
20°-30°	1107.9	4.6
30°-40°	1762.7	7.4
40°-50°	3147.7	13.2
50°-60°	4884.3	20.5
60°-70°	6493.0	27.2
70°-80°	4884.1	20.5
80°-90°	513.2	2.1
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°	23873.0	100.0
0°-180°	23873.0	100.0

Coefficient of Utilization



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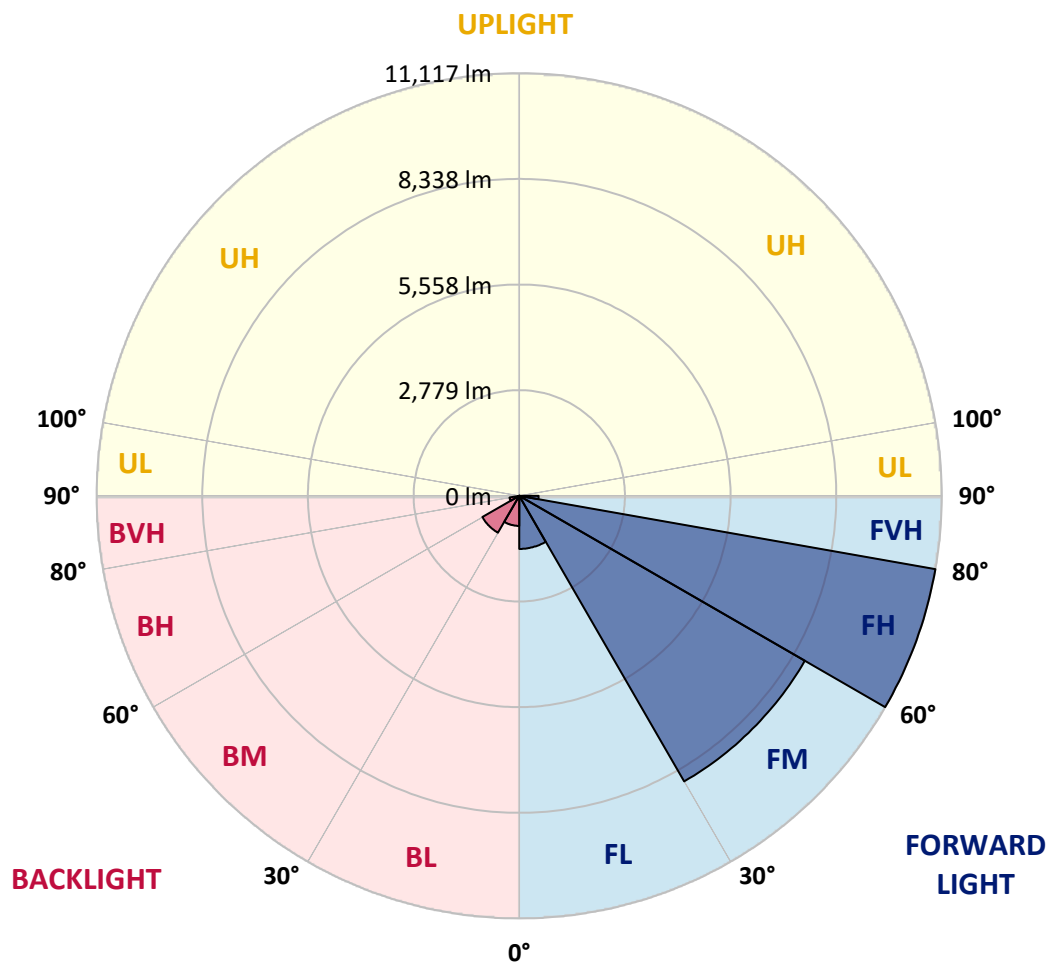
CATALOG NUMBER: GLEON-SA6C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.6	5.9			
FM	(30°-60°)	8674.6	36.3			
FH	(60°-80°)	11116.8	46.6			G4/12000
FVH	(80°-90°)	508.9	2.1			G4/750
BL	(0°-30°)	791.3	3.3	B2/1000		
BM	(30°-60°)	1120.1	4.7	B2/2500		
BH	(60°-80°)	260.4	1.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4
2.5°	3892.4	3908.8	3926.3	3929.8	3959.0	3960.2	4002.3	4033.8	4065.3	4095.7	4106.2
5°	3492.9	3519.8	3551.3	3582.9	3644.8	3669.3	3772.1	3877.3	3977.7	4073.5	4120.2
7.5°	3066.5	3096.9	3141.3	3219.6	3288.5	3336.4	3498.8	3685.7	3872.6	4049.0	4150.6
10°	2677.5	2705.6	2752.3	2835.2	2941.5	3007.0	3225.4	3484.7	3759.3	4026.8	4196.2
12.5°	2429.9	2445.0	2470.7	2559.5	2655.3	2728.9	2985.9	3307.2	3665.8	4025.6	4269.8
15°	2384.3	2389.0	2367.9	2407.7	2482.4	2553.7	2814.2	3163.5	3594.6	4044.3	4365.6
17.5°	2456.7	2454.4	2384.3	2379.6	2439.2	2497.6	2730.1	3064.2	3544.3	4087.5	4489.4
20°	2566.5	2558.4	2436.9	2414.7	2477.8	2532.7	2724.2	3026.8	3525.6	4160.0	4640.1
22.5°	2712.6	2698.5	2508.1	2484.8	2552.5	2609.8	2796.7	3063.0	3542.0	4256.9	4815.3
25°	2893.6	2872.6	2630.8	2605.1	2674.0	2731.3	2926.3	3167.0	3591.1	4374.9	5037.3
27.5°	3098.1	3067.7	2827.0	2760.5	2838.7	2898.3	3099.2	3325.9	3668.2	4499.9	5309.5
30°	3290.8	3251.1	3033.8	2924.0	3019.8	3086.4	3286.2	3515.1	3792.0	4692.7	5682.1
32.5°	3484.7	3440.4	3218.4	3087.6	3174.0	3246.4	3478.9	3775.6	4024.5	4987.1	6177.5
35°	3931.0	3884.3	3612.1	3396.0	3394.8	3435.7	3748.8	4131.9	4331.7	5397.1	6768.6
37.5°	4682.2	4655.3	4395.9	3985.9	3876.1	3830.5	4116.7	4557.2	4773.3	5961.3	7435.6
40°	5504.6	5481.2	5190.3	4818.8	4651.8	4539.6	4644.8	5149.4	5397.1	6650.6	8116.7
42.5°	6433.3	6322.3	5803.6	5692.6	5543.1	5457.8	5363.2	5879.6	6163.4	7400.6	8791.9
45°	7276.7	7089.8	6416.9	6248.7	6214.8	6235.9	6288.4	6860.9	7025.6	8291.9	9464.8
47.5°	7779.1	7631.9	7115.5	6954.3	6945.0	7084.0	7481.2	7969.5	7884.2	9068.8	10057.1
50°	8256.9	8123.7	7694.9	7734.7	7777.9	7967.1	8835.1	9109.6	8668.1	9773.2	10600.3
52.5°	8643.5	8440.3	8216.0	8439.1	8651.7	8956.6	10232.3	10133.0	9224.1	10333.9	11065.2
55°	8866.7	8774.4	8883.0	9107.3	9506.8	10002.1	11551.2	10984.6	9630.7	10845.6	11374.8
57.5°	9684.4	9503.3	9719.4	9913.4	10434.4	11127.1	12680.8	11618.9	9923.9	11162.2	11446.0
60°	10673.9	10527.8	10655.2	10977.6	11680.9	12495.1	13736.9	12136.5	10076.9	11365.4	11261.5
62.5°	12248.6	12055.8	11976.4	12337.4	13269.6	14158.6	14538.3	12495.1	10043.0	11275.5	10628.3
65°	14358.4	14158.6	13803.5	14130.6	15316.3	15943.6	15434.3	12571.0	9809.4	10547.7	9027.9
67.5°	16519.5	16374.7	16071.0	16622.3	17692.4	17894.5	16381.7	12386.4	9057.1	8552.4	6378.4
70°	17947.1	17885.2	18082.6	19302.2	20256.6	20198.2	17250.8	11394.6	7059.4	5259.2	3155.3
72.5°	16917.9	17214.6	18672.5	20883.9	22049.8	21573.2	16804.6	8749.8	4035.0	2023.3	912.4
73°	16065.1	16444.8	18407.4	20943.5	22191.2	21669.0	16429.6	8031.4	3439.2	1596.9	691.6
75°	11176.2	11642.3	15239.2	19505.5	21530.0	20645.6	13694.8	4915.8	1593.4	707.9	279.2
77.5°	5426.3	5770.9	8391.2	14093.2	16743.8	16130.5	8525.5	1831.7	719.6	442.7	128.5
80°	2025.7	2252.3	3642.5	7172.8	9676.2	9929.7	3749.9	692.7	479.0	356.3	65.4
82.5°	530.4	591.1	1343.4	3198.5	4959.0	5190.3	1182.2	349.3	350.5	293.2	39.7
85°	169.4	193.9	419.4	1435.7	2336.4	2051.4	308.4	169.4	254.7	218.5	22.2
87.5°	21.0	26.9	133.2	337.6	515.2	286.2	47.9	50.2	108.6	121.5	12.9
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-SA6C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4
2.5°	4116.7	4110.9	4112.1	4081.7	4061.8	4022.1	3981.2	3962.5	3942.7	3934.5	3942.7
5°	4137.8	4127.3	4096.9	4003.4	3904.1	3775.6	3655.3	3564.2	3449.7	3418.2	3450.9
7.5°	4170.5	4149.5	4060.7	3870.3	3649.5	3404.1	3128.4	2927.5	2762.8	2656.5	2695.0
10°	4218.4	4178.7	3999.9	3676.3	3281.5	2846.9	2455.6	2150.7	1934.5	1845.8	1842.3
12.5°	4299.0	4224.2	3925.2	3424.0	2831.7	2252.3	1739.5	1408.9	1233.6	1120.3	1118.0
15°	4387.8	4278.0	3830.5	3121.4	2308.4	1613.3	1120.3	869.1	755.8	719.6	714.9
17.5°	4496.4	4339.9	3707.9	2748.8	1760.5	1068.9	731.3	658.9	654.2	650.7	650.7
20°	4633.1	4413.5	3550.2	2322.4	1248.8	713.8	621.5	626.2	628.5	623.8	625.0
22.5°	4792.0	4488.2	3362.1	1864.5	844.6	597.0	594.6	600.5	602.8	600.5	601.6
25°	4976.5	4574.7	3133.1	1384.3	609.8	566.6	572.4	580.6	586.4	586.4	586.4
27.5°	5205.5	4679.8	2857.4	966.1	526.9	535.0	551.4	566.6	574.8	577.1	577.1
30°	5503.4	4810.7	2526.8	662.4	479.0	493.0	523.4	552.6	567.7	570.1	571.3
32.5°	5879.6	4957.8	2143.7	489.5	438.1	448.6	481.3	530.4	559.6	564.2	564.2
35°	6310.6	5128.4	1731.3	426.4	408.9	412.4	438.1	494.1	545.6	558.4	559.6
37.5°	6782.6	5296.6	1316.6	398.4	384.3	384.3	403.0	450.9	511.7	551.4	556.1
40°	7223.0	5398.3	922.9	376.2	362.1	362.1	378.5	413.5	470.8	530.4	543.2
42.5°	7629.5	5433.3	642.5	355.1	341.1	344.6	358.6	386.7	429.9	489.5	501.2
45°	8047.7	5427.5	468.4	330.6	320.1	330.6	341.1	362.1	393.7	427.6	429.9
47.5°	8363.2	5378.4	371.5	307.2	300.2	314.2	323.6	337.6	355.1	352.8	352.8
50°	8658.7	5259.2	299.1	275.7	280.4	296.7	301.4	306.1	307.2	285.0	282.7
52.5°	8883.0	5073.5	239.5	241.8	260.5	276.9	272.2	265.2	253.5	226.6	222.0
55°	8957.8	4716.0	188.1	199.8	231.3	252.3	234.8	219.6	197.4	175.2	170.6
57.5°	8822.3	4254.6	153.0	155.4	195.1	212.6	192.8	175.2	150.7	132.0	128.5
60°	8534.9	3741.8	126.2	116.8	150.7	165.9	153.0	135.5	113.3	99.3	98.1
62.5°	7964.8	3195.0	104.0	91.1	114.5	127.3	119.2	106.3	87.6	78.3	77.1
65°	6766.2	2556.0	84.1	73.6	88.8	99.3	92.3	82.9	68.9	61.9	60.7
67.5°	4723.0	1727.8	68.9	60.7	70.1	78.3	72.4	67.8	54.9	53.7	54.9
70°	2278.0	832.9	57.2	49.1	54.9	60.7	58.4	54.9	52.6	60.7	70.1
72.5°	653.0	279.2	45.6	40.9	44.4	47.9	50.2	49.1	57.2	73.6	85.3
73°	502.3	225.5	43.2	38.6	42.1	46.7	49.1	47.9	58.4	74.8	85.3
75°	214.9	108.6	32.7	31.5	35.0	40.9	43.2	43.2	58.4	75.9	81.8
77.5°	97.0	58.4	21.0	24.5	30.4	32.7	36.2	36.2	46.7	58.4	58.4
80°	54.9	31.5	16.4	18.7	22.2	22.2	22.2	19.9	21.0	23.4	25.7
82.5°	35.0	21.0	12.9	15.2	14.0	11.7	9.3	9.3	8.2	9.3	11.7
85°	19.9	11.7	11.7	9.3	5.8	4.7	5.8	4.7	1.2	0.0	1.2
87.5°	11.7	7.0	3.5	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
 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

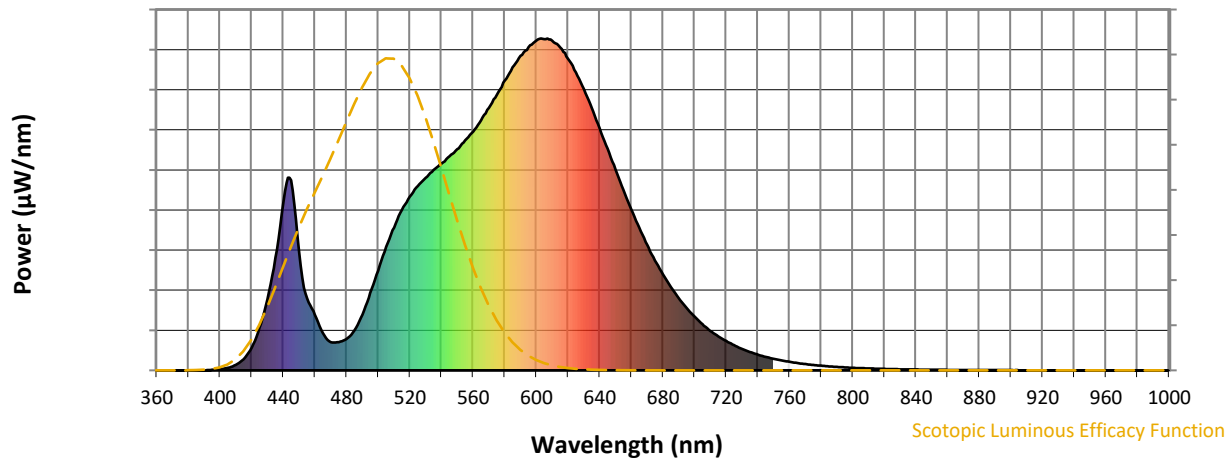


Photopic Lumens: NR

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 [^] /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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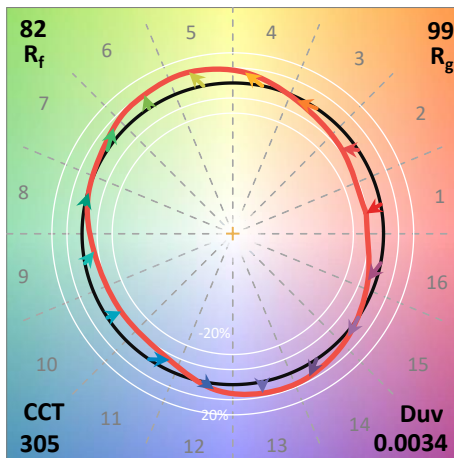
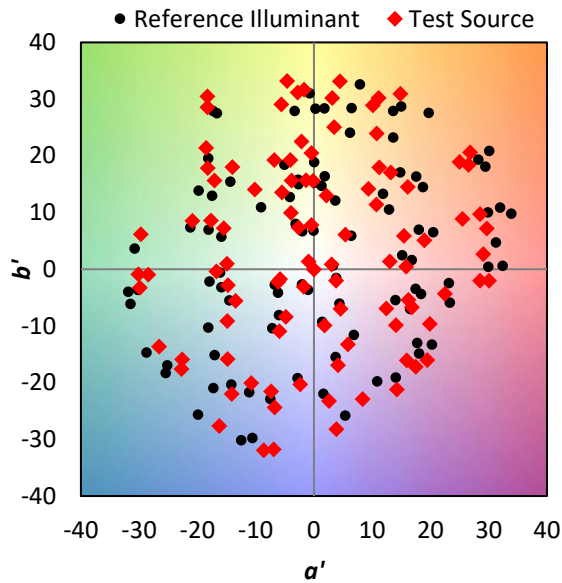
TM-30-18

Summary

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



Color Vector Graphics

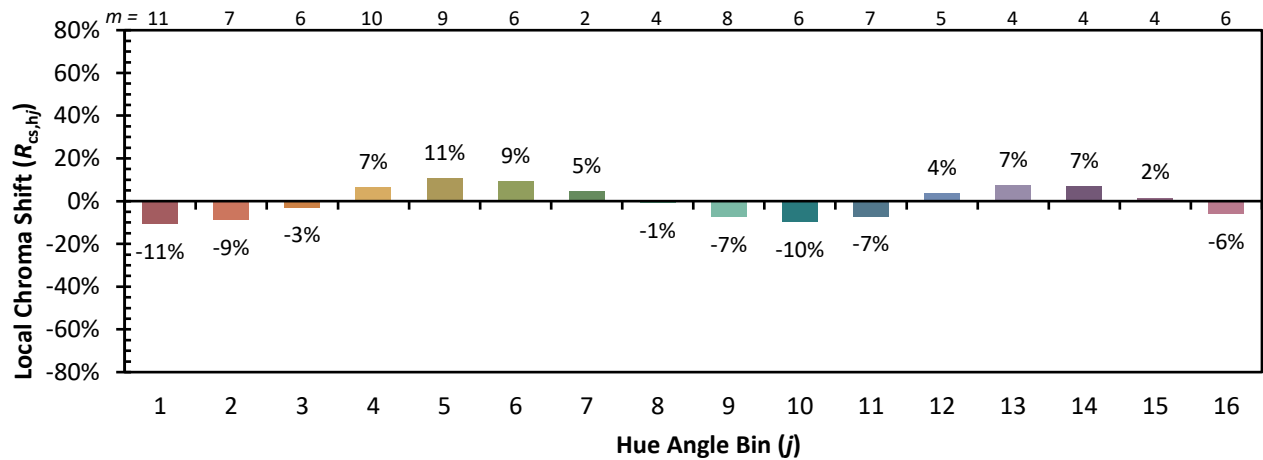


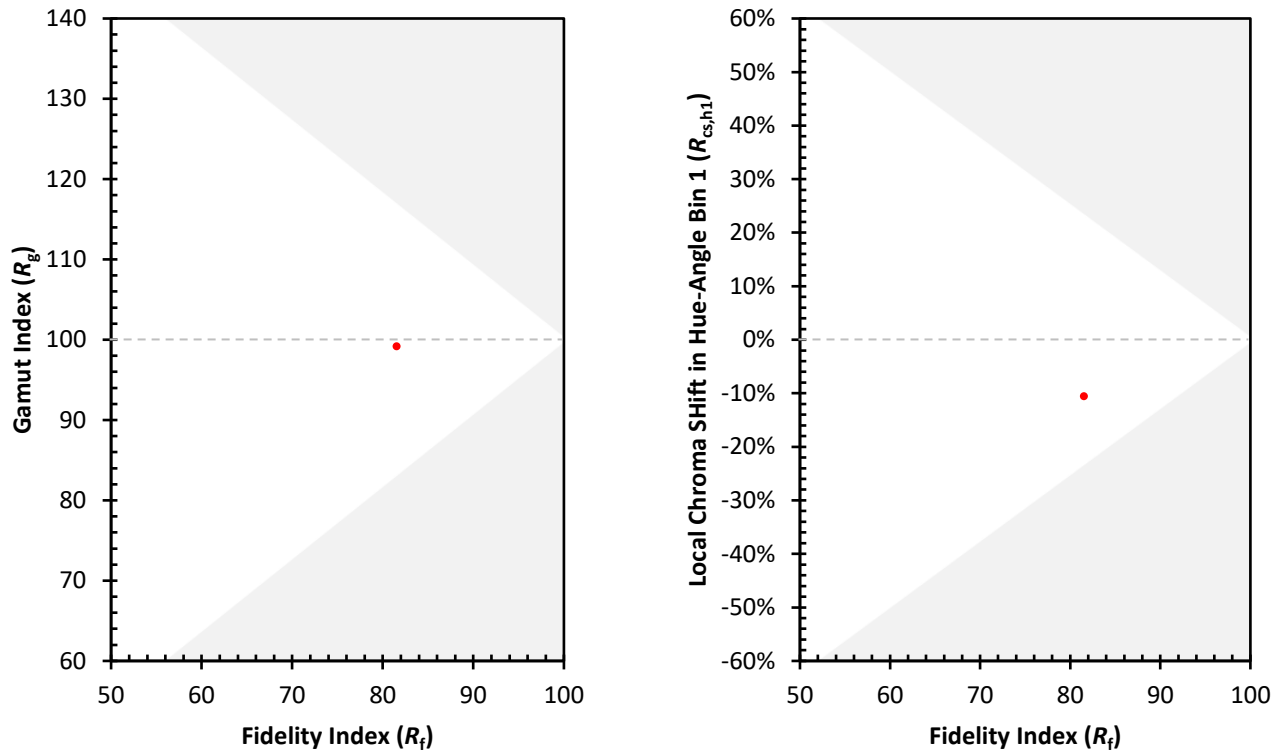
Individual Sample Fidelity Index ($R_{f,i}$)

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)