

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: P321782

Luminaire Tested: **GLEON-SA8D-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38005 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

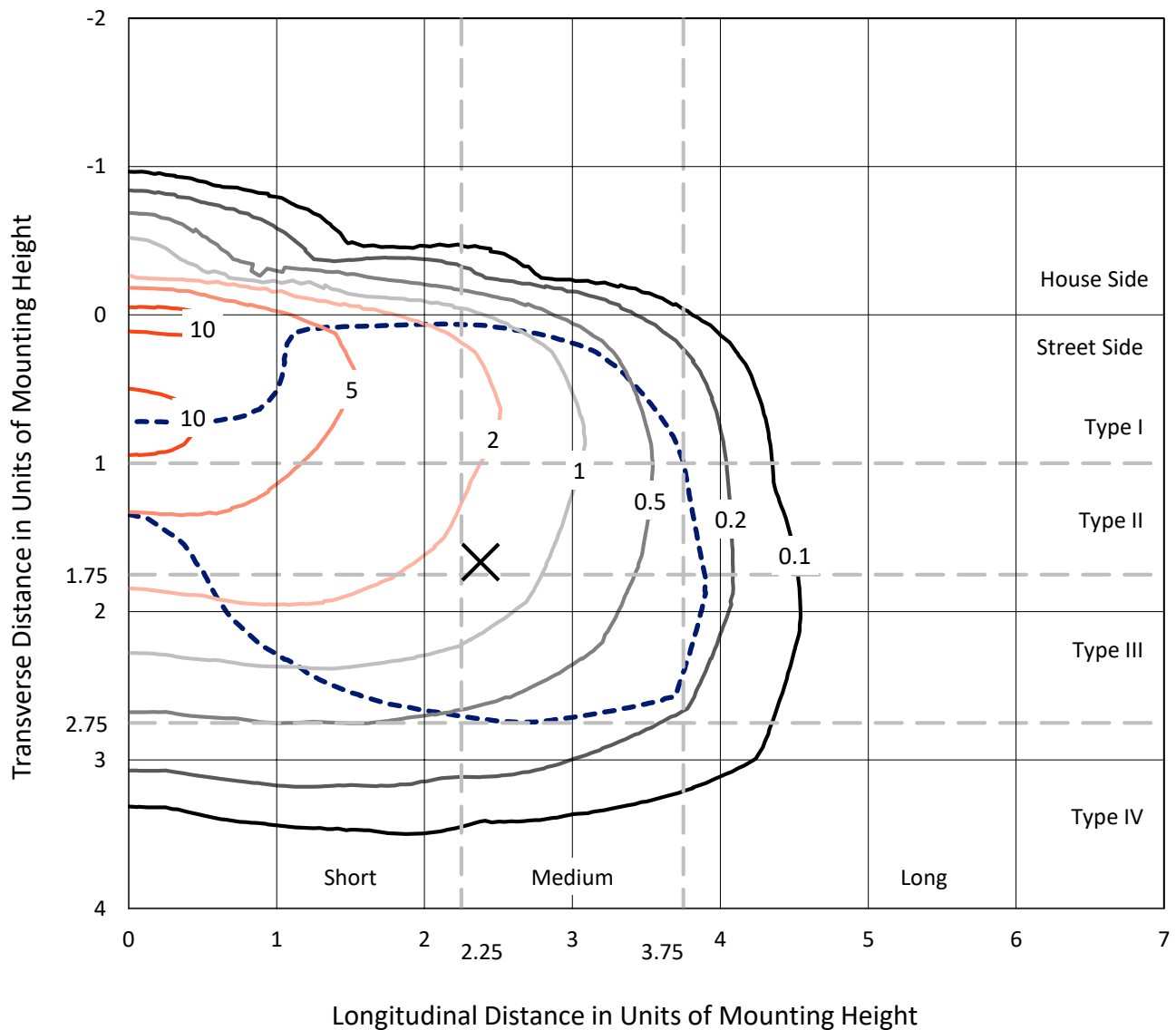
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

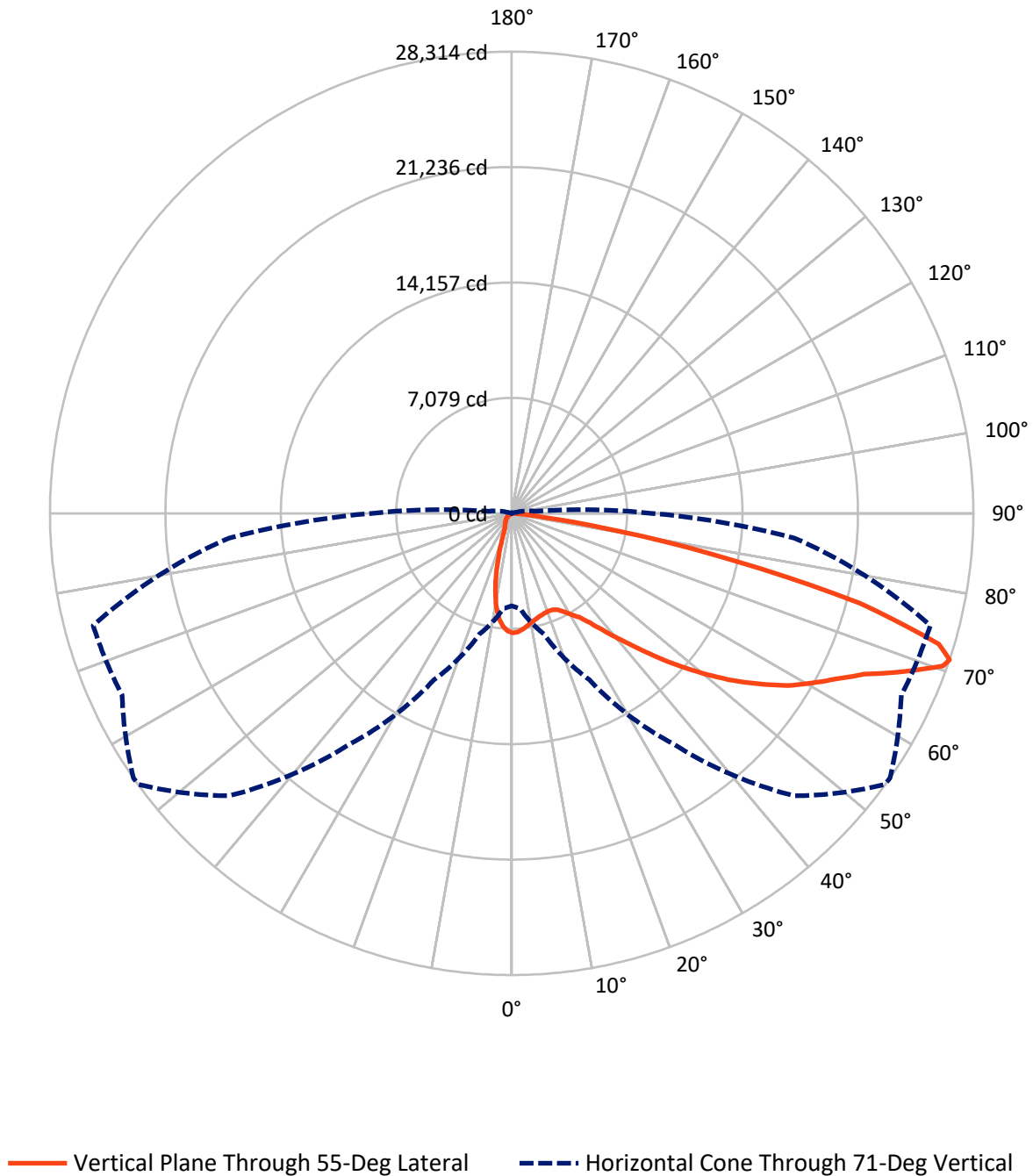
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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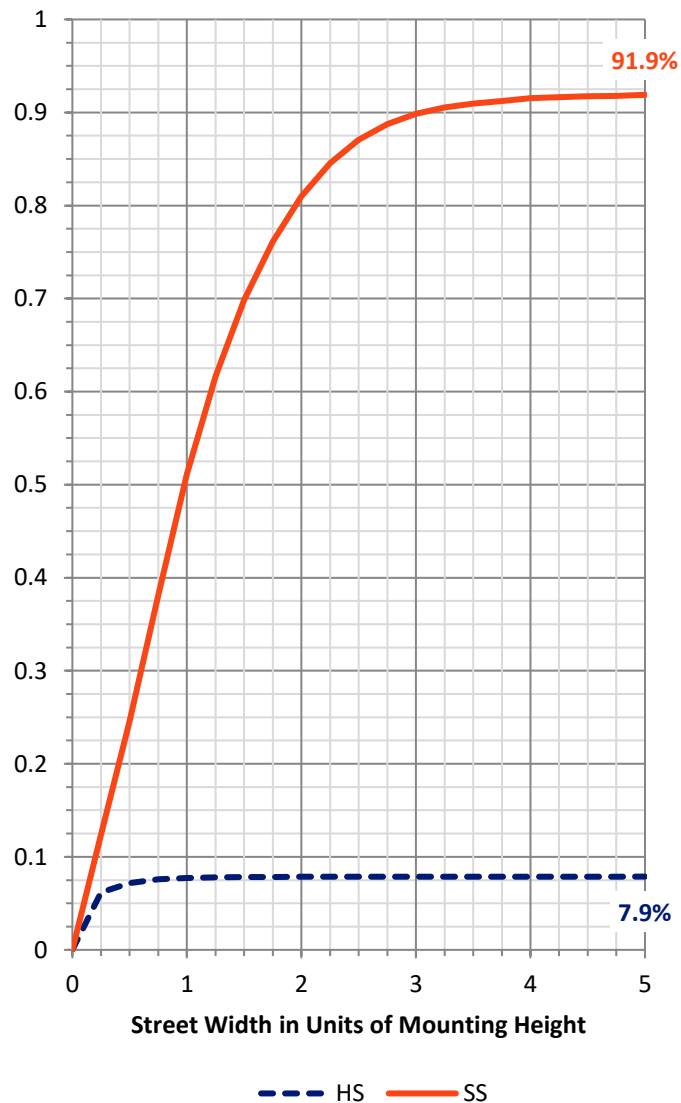
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.9	0.0	3008.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	34996.0	0.0	34996.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	38005.0	0.0	38005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.9	1.6
10°-20°	1410.8	3.7
20°-30°	2267.2	6.0
30°-40°	3852.2	10.1
40°-50°	5979.0	15.7
50°-60°	8038.7	21.2
60°-70°	9833.9	25.9
70°-80°	5749.7	15.1
80°-90°	248.5	0.7
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°	38005.0	100.0
0°-180°	38005.0	100.0

Coefficient of Utilization



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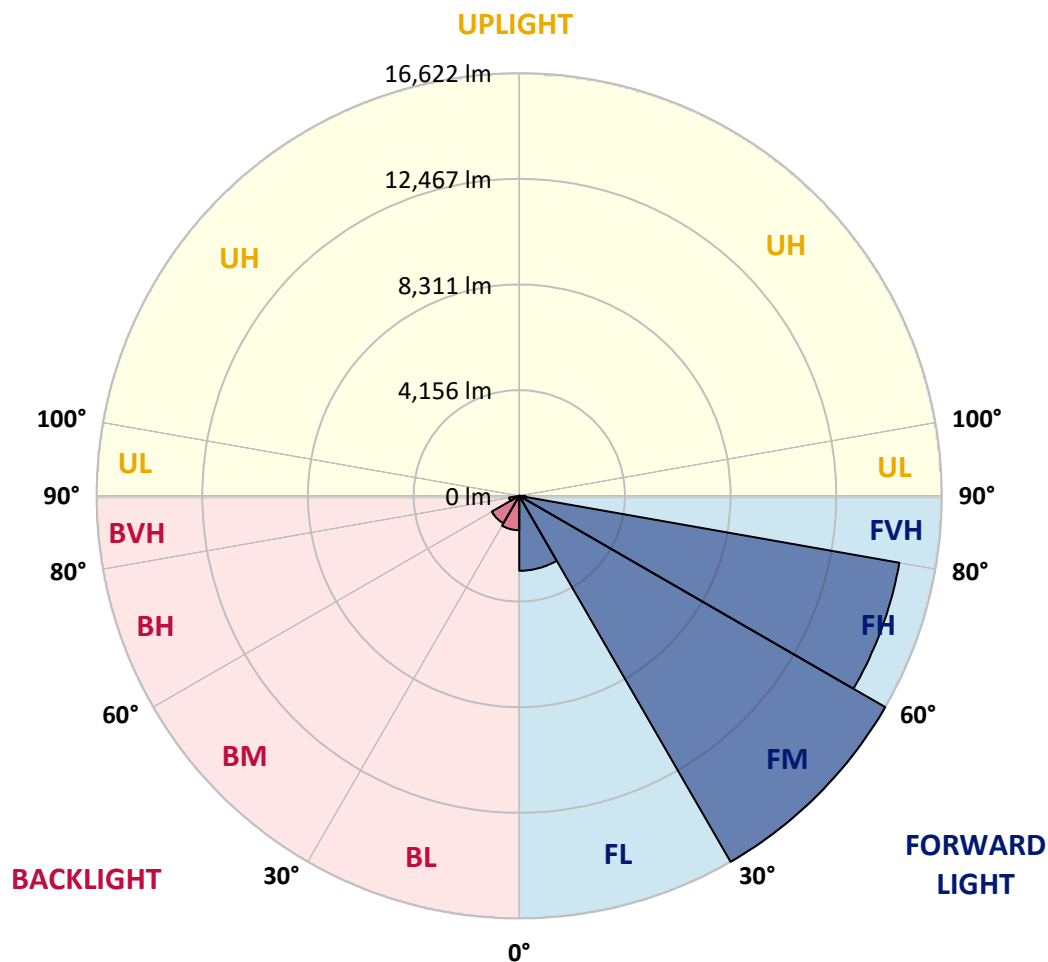
CATALOG NUMBER: GLEON-SA8D-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2948.7	7.8			
FM	(30°-60°)	16622.3	43.7			
FH	(60°-80°)	15180.5	39.9			G5
FVH	(80°-90°)	244.6	0.6			G3/500
BL	(0°-30°)	1354.3	3.6	B3/2500		
BM	(30°-60°)	1247.6	3.3	B2/2500		
BH	(60°-80°)	403.1	1.1	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4
2.5°	7114.4	7122.9	7153.6	7167.3	7199.7	7254.3	7281.6	7283.3	7327.7	7344.8	7358.4
5°	6611.0	6662.2	6713.4	6768.0	6866.9	6998.3	7128.0	7140.0	7283.3	7389.1	7445.4
7.5°	6177.5	6223.6	6285.0	6372.1	6512.0	6718.5	6935.2	6960.8	7232.1	7472.7	7599.0
10°	5732.1	5769.7	5858.4	5986.4	6179.2	6455.7	6747.5	6790.1	7186.1	7585.4	7807.2
12.5°	5256.0	5278.2	5385.7	5570.0	5853.3	6204.8	6588.8	6645.1	7157.0	7715.1	8053.0
15°	4894.2	4904.5	5006.9	5198.0	5522.2	5979.6	6465.9	6534.2	7163.9	7870.4	8320.9
17.5°	4802.1	4807.2	4861.8	4993.2	5279.9	5778.2	6368.6	6452.3	7184.3	8022.2	8590.5
20°	5175.8	5140.0	5083.7	5063.2	5186.0	5657.0	6310.6	6404.5	7211.7	8157.1	8832.8
22.5°	6201.4	6095.6	5861.8	5549.5	5360.1	5665.6	6326.0	6419.8	7298.7	8322.6	9112.7
25°	7723.6	7576.8	7179.2	6564.9	5974.4	5911.3	6454.0	6549.5	7467.6	8520.5	9380.6
27.5°	9455.7	9310.6	8824.3	7947.2	6940.3	6397.7	6747.5	6836.2	7718.5	8696.3	9585.4
30°	11114.4	11073.5	10500.1	9503.5	8155.3	7186.1	7126.3	7201.4	7904.5	8802.1	9747.5
32.5°	12520.6	12455.7	11995.0	11025.7	9546.1	8133.2	7571.7	7593.9	8044.4	8938.6	9959.1
35°	13824.3	13744.1	13339.7	12423.3	10972.8	9290.2	8257.7	8225.3	8349.9	9213.4	10266.3
37.5°	14962.6	15035.9	14587.1	13715.1	12252.6	10493.2	9182.7	9085.4	8827.7	9660.5	10711.7
40°	15914.8	15914.8	15681.0	14954.0	13634.9	11737.3	10228.7	10100.8	9546.1	10349.9	11276.5
42.5°	16257.8	16331.2	16418.2	16006.9	14872.1	13030.8	11394.3	11261.2	10558.1	11327.7	11989.8
45°	16278.3	16394.3	16839.7	16838.0	15989.9	14315.8	12708.3	12645.1	11855.0	12583.7	12873.8
47.5°	15989.9	16134.9	16868.7	17285.1	16875.5	15512.0	14145.1	14066.6	13378.9	14123.0	13798.7
50°	15544.5	15704.9	16558.1	17460.9	17477.9	16553.0	15658.8	15541.1	15056.4	15882.4	14754.4
52.5°	14747.5	15058.1	16280.0	17501.8	17873.8	17452.3	17099.1	17047.9	16933.6	17576.9	15515.5
55°	13042.7	13387.5	15582.0	17515.5	18240.7	18249.3	18448.9	18462.6	18693.0	19160.5	16082.0
57.5°	12237.3	12431.8	14363.6	17580.3	18785.1	19153.7	19824.4	19930.2	20286.8	20664.0	16728.8
60°	11730.5	11960.8	13762.9	17491.6	19640.1	20339.7	21099.1	21135.0	21517.2	22215.2	17604.2
62.5°	11326.0	11553.0	13384.0	17150.3	20600.8	21766.4	22344.9	22348.3	22635.0	24063.3	18599.1
65°	10327.7	10518.8	12617.8	16766.3	21235.6	23177.6	23792.0	23769.8	24003.6	26012.1	19754.4
67.5°	8884.0	9030.8	11053.0	15310.7	20996.7	24460.9	25976.3	25902.9	25619.6	27696.4	20208.3
70°	6868.6	6921.5	8711.7	12759.5	18757.8	24954.1	28087.2	28049.7	26611.1	27394.4	18544.5
71°	5677.5	5851.6	7677.5	11261.2	17257.8	24498.5	28292.0	28314.2	26362.0	26571.9	17399.4
72.5°	3297.0	3445.4	5564.9	8648.5	14652.0	22597.4	27230.6	27391.0	25198.1	24169.1	14861.9
75°	706.5	756.0	2063.2	4186.0	8059.8	15838.0	21493.3	22065.0	20537.7	16442.1	8957.4
77.5°	491.5	530.7	884.0	1899.3	2663.8	7826.0	13351.6	13996.7	12269.7	6179.2	2866.9
80°	389.1	433.5	689.4	938.6	720.1	2523.9	6254.3	6648.5	4092.2	1378.8	482.9
82.5°	216.7	257.7	537.5	506.8	276.5	479.5	1750.9	1979.5	819.1	278.2	114.3
85°	63.1	76.8	346.4	368.6	117.7	92.2	298.6	370.3	155.3	73.4	51.2
87.5°	0.0	0.0	167.2	141.6	34.1	13.7	27.3	30.7	30.7	30.7	34.1
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°	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4
2.5°	7358.4	7370.4	7327.7	7271.4	7211.7	7138.3	7061.5	7001.8	7000.0	6971.0	6942.0
5°	7448.9	7442.0	7324.3	7145.1	6933.5	6713.4	6503.5	6266.3	6187.8	6090.5	6058.1
7.5°	7616.1	7568.3	7319.2	6926.7	6462.5	6001.7	5525.6	5046.1	4841.3	4657.0	4624.6
10°	7826.0	7735.5	7286.7	6599.0	5747.5	4897.6	4179.2	3527.3	3240.6	3020.5	3010.3
12.5°	8044.4	7906.2	7196.3	6104.1	4810.6	3616.1	2788.4	2146.8	1907.9	1754.3	1767.9
15°	8273.1	8066.6	7001.8	5436.9	3744.1	2453.9	1713.3	1336.2	1240.6	1201.4	1211.6
17.5°	8506.9	8177.5	6730.4	4633.1	2691.1	1583.6	1186.0	1080.2	1080.2	1088.7	1092.2
20°	8710.0	8237.3	6331.1	3732.1	1824.2	1153.6	1037.5	1022.2	1030.7	1044.4	1046.1
22.5°	8911.3	8240.7	5810.6	2819.1	1276.5	1010.2	988.1	981.2	986.4	1001.7	1003.4
25°	9075.1	8199.7	5158.7	2005.1	1018.8	952.2	942.0	938.6	942.0	960.8	960.8
27.5°	9141.7	8051.2	4363.5	1409.6	913.0	887.4	884.0	887.4	892.5	906.1	907.9
30°	9148.5	7791.9	3496.6	1020.5	827.7	800.3	807.2	819.1	814.0	810.6	814.0
32.5°	9165.6	7491.5	2651.9	839.6	756.0	713.3	704.8	704.8	684.3	672.4	665.5
35°	9221.9	7138.3	1923.2	754.3	682.6	633.1	600.7	563.1	523.9	503.4	498.3
37.5°	9310.6	6768.0	1377.1	698.0	617.8	561.4	500.0	433.5	377.1	361.8	361.8
40°	9472.8	6385.7	1018.8	653.6	566.6	496.6	404.4	317.4	266.2	257.7	257.7
42.5°	9728.7	5983.0	812.3	614.3	522.2	430.0	308.9	230.4	192.8	187.7	186.0
45°	9994.9	5539.3	709.9	576.8	474.4	353.2	228.7	170.6	148.5	143.3	143.3
47.5°	10261.2	5066.6	660.4	541.0	428.3	274.7	170.6	134.8	124.6	124.6	126.3
50°	10486.4	4573.4	624.6	501.7	368.6	208.2	134.8	114.3	110.9	117.7	119.5
52.5°	10542.7	4088.8	580.2	452.2	295.2	158.7	110.9	100.7	100.7	100.7	100.7
55°	10508.6	3713.3	522.2	390.8	218.4	126.3	95.6	88.7	87.0	87.0	87.0
57.5°	10624.6	3491.5	418.1	303.8	157.0	102.4	83.6	78.5	75.1	73.4	73.4
60°	10858.4	3346.4	298.6	218.4	117.7	85.3	71.7	66.6	61.4	58.0	58.0
62.5°	11169.0	3220.2	221.8	162.1	90.4	68.3	59.7	54.6	47.8	44.4	44.4
65°	11407.9	2994.9	168.9	121.2	68.3	54.6	46.1	44.4	34.1	30.7	29.0
67.5°	11042.7	2500.0	136.5	88.7	51.2	42.7	35.8	34.1	20.5	17.1	17.1
70°	9471.1	1740.6	109.2	64.8	37.5	34.1	29.0	22.2	15.4	13.7	13.7
71°	8588.8	1453.9	99.0	54.6	32.4	32.4	27.3	18.8	13.7	11.9	11.9
72.5°	7134.9	1032.4	83.6	42.7	29.0	34.1	29.0	17.1	13.7	11.9	10.2
75°	4141.7	431.7	58.0	29.0	22.2	41.0	37.5	15.4	10.2	8.5	8.5
77.5°	1245.7	158.7	32.4	18.8	17.1	35.8	42.7	13.7	5.1	1.7	1.7
80°	227.0	68.3	20.5	11.9	11.9	22.2	32.4	6.8	0.0	0.0	0.0
82.5°	80.2	34.1	11.9	6.8	5.1	10.2	15.4	0.0	0.0	0.0	0.0
85°	46.1	23.9	6.8	3.4	0.0	1.7	3.4	0.0	0.0	0.0	0.0
87.5°	30.7	6.8	0.0	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

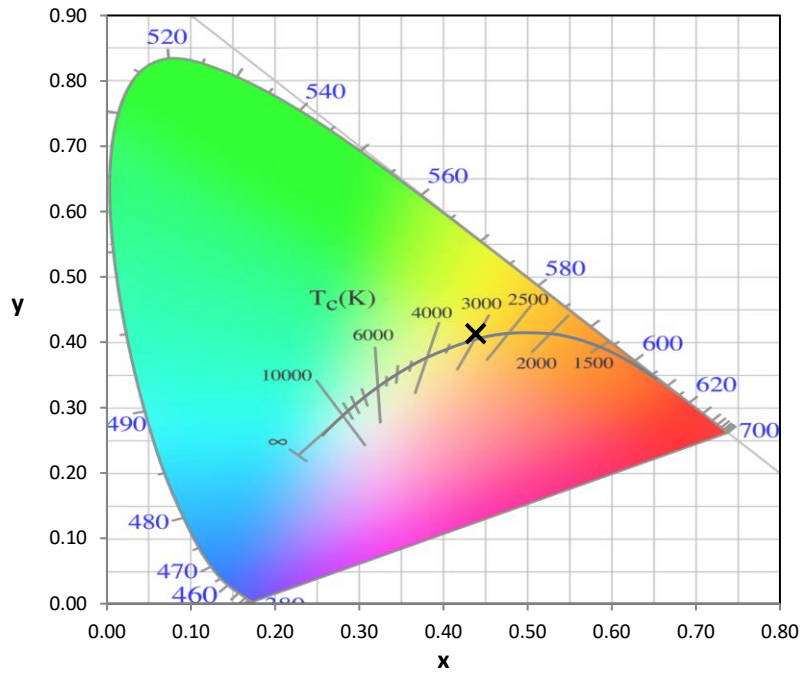
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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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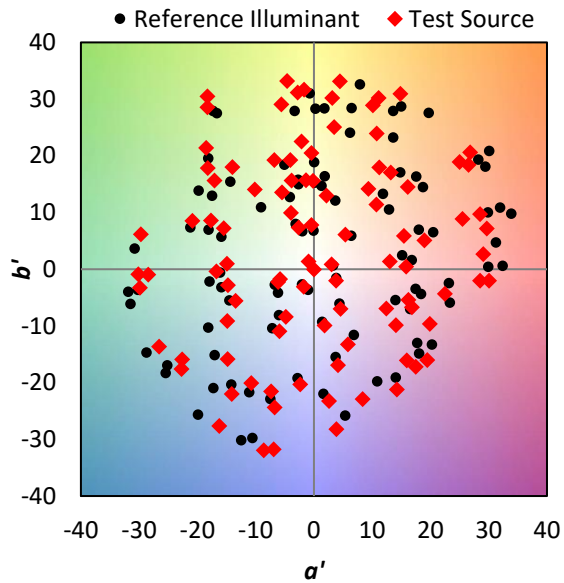
TM-30-18

Summary

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



Color Vector Graphics

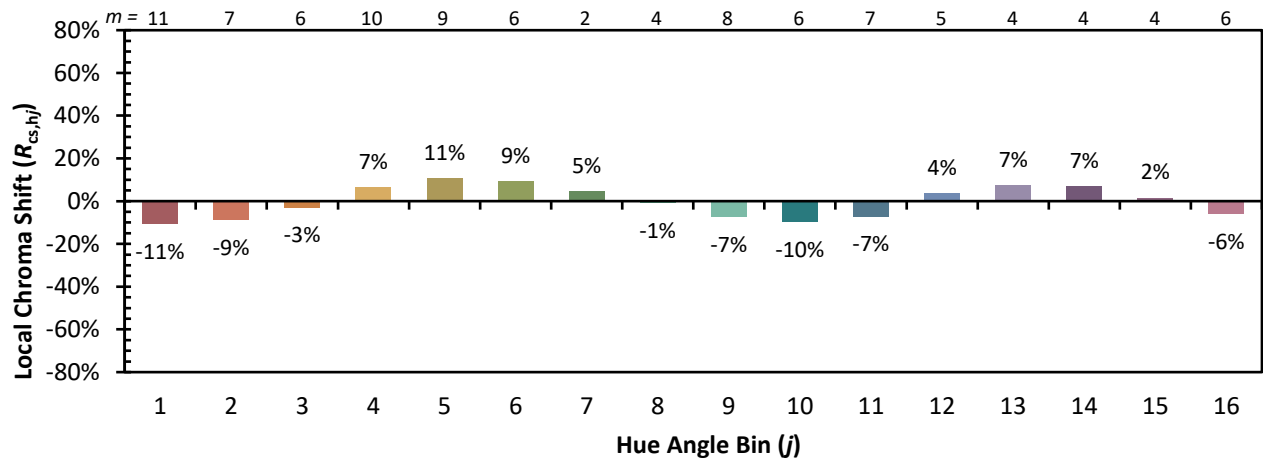


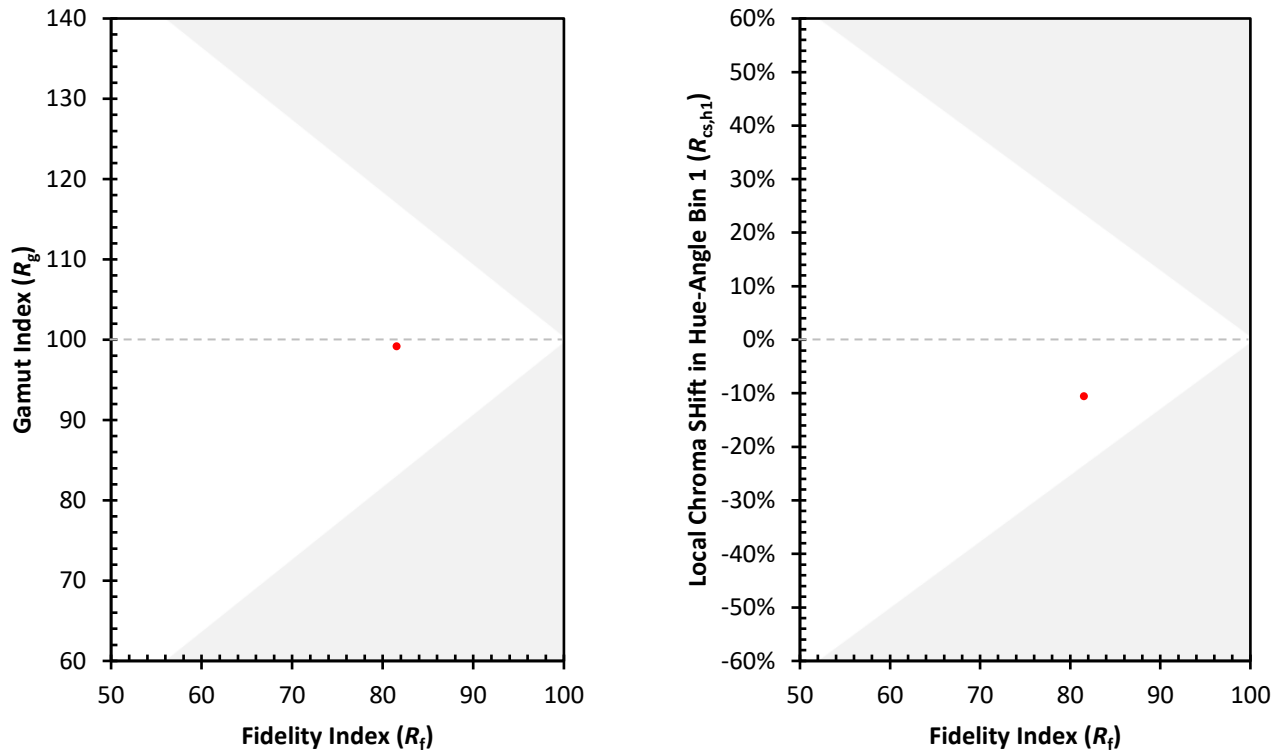
Individual Sample Fidelity Index ($R_{f,i}$)

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)