

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: P318569

Luminaire Tested: **GLEON-SA5C-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28097 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

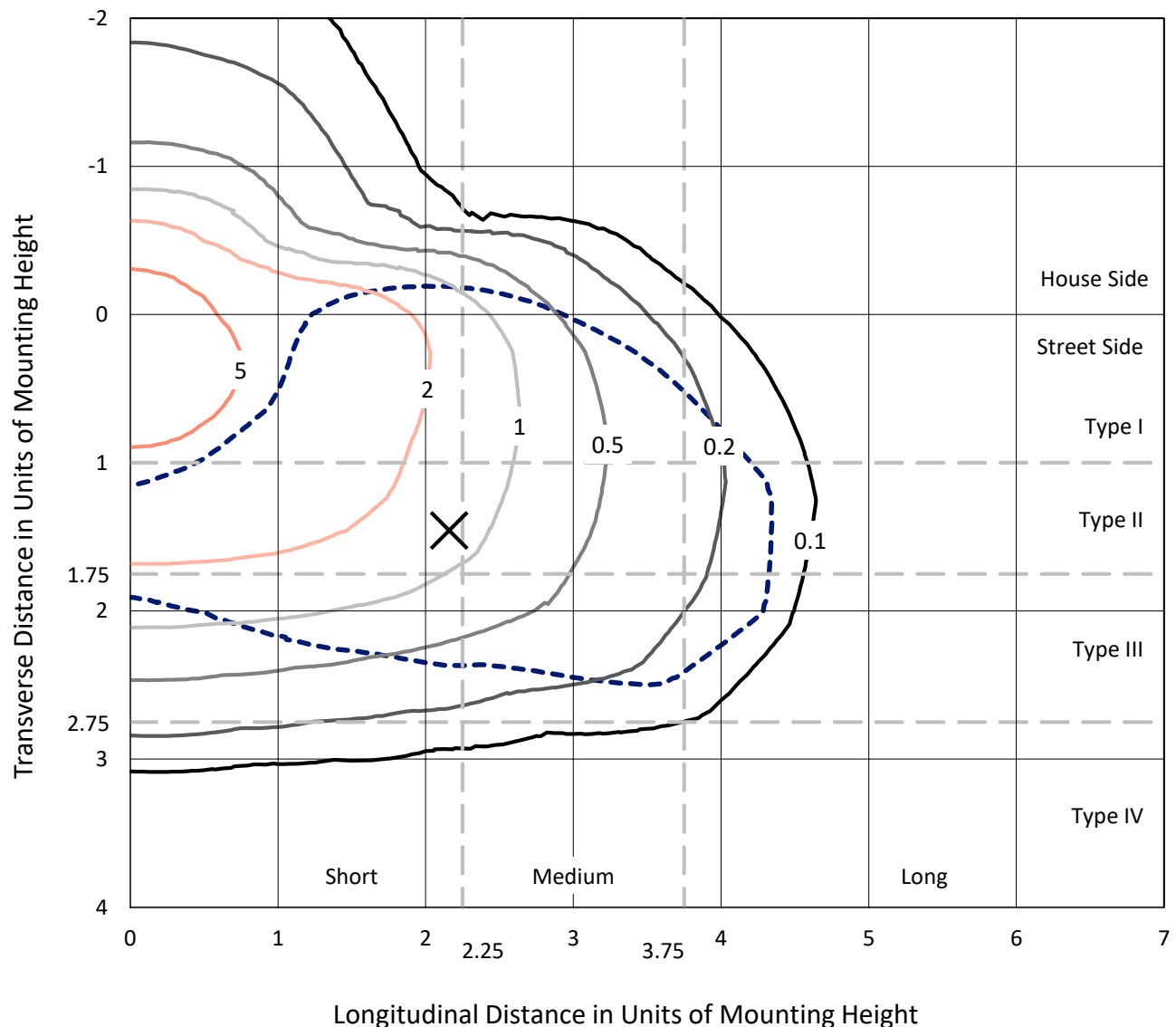
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

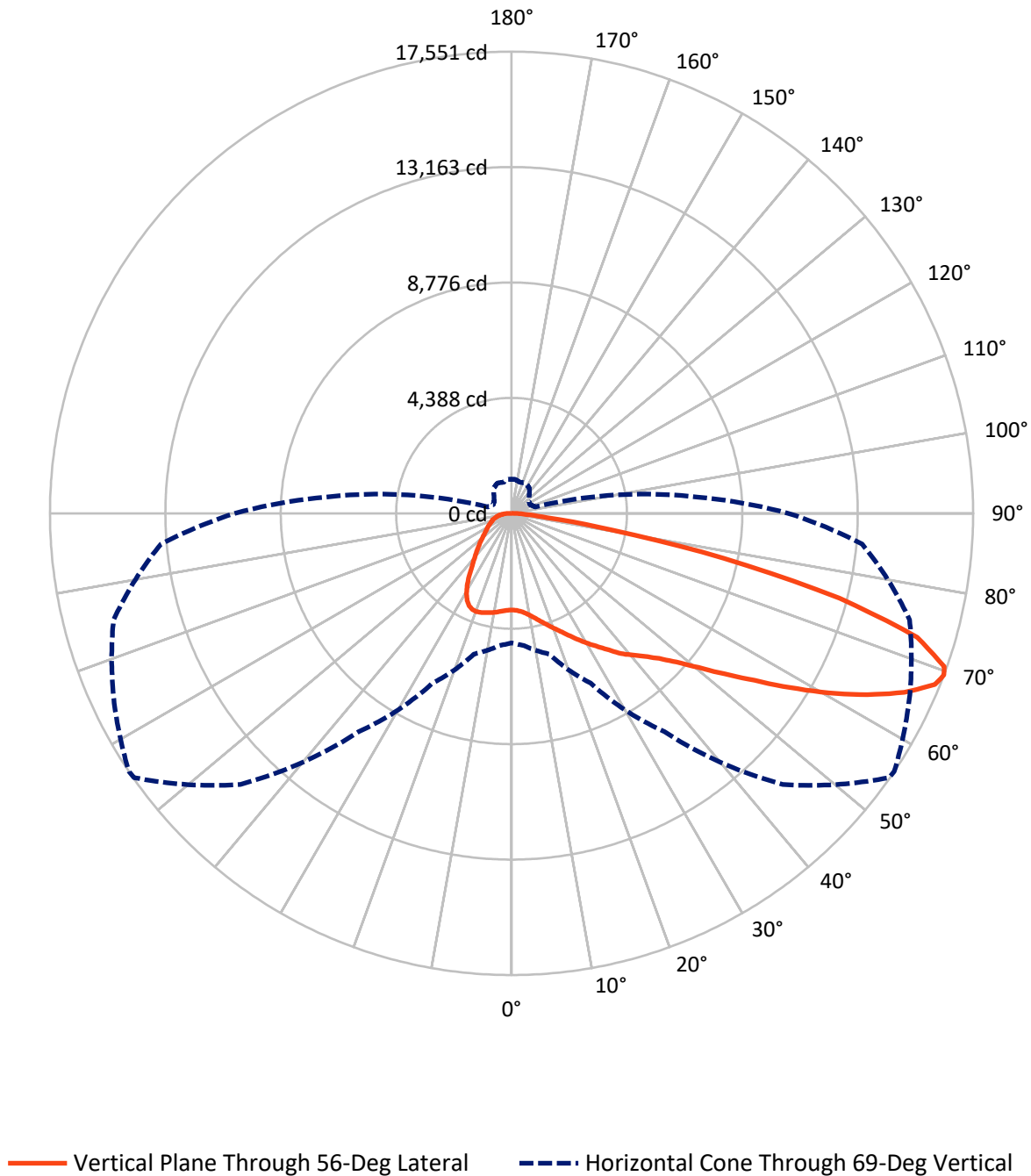
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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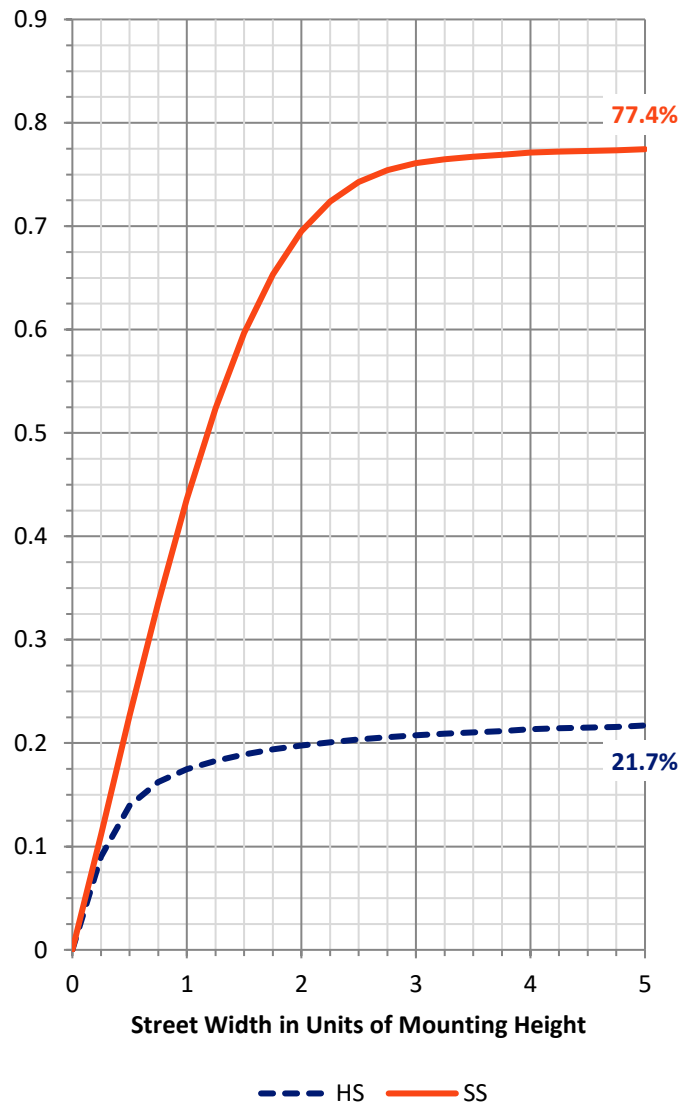
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6257.2	0.0	6257.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	21839.9	0.0	21839.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	28097.0	0.0	28097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.8	1.3
10°-20°	1160.1	4.1
20°-30°	2025.1	7.2
30°-40°	2909.0	10.4
40°-50°	4025.9	14.3
50°-60°	5898.4	21.0
60°-70°	7191.3	25.6
70°-80°	3975.8	14.2
80°-90°	550.7	2.0
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°	28097.0	100.0
0°-180°	28097.0	100.0

Coefficient of Utilization



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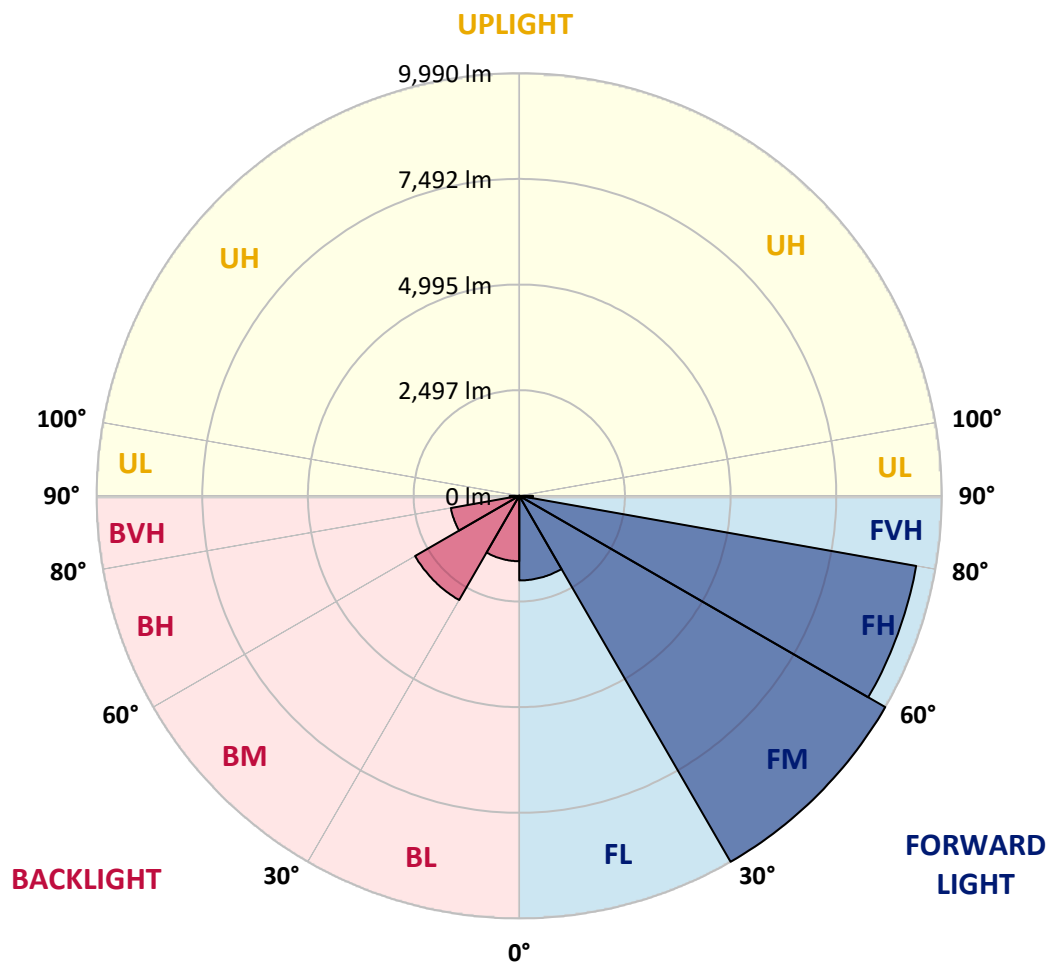
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1999.7	7.1			
FM	(30°-60°)	9989.5	35.6			
FH	(60°-80°)	9526.3	33.9			G4/12000
FVH	(80°-90°)	324.4	1.2			G3/500
BL	(0°-30°)	1546.3	5.5	B3/2500		
BM	(30°-60°)	2843.7	10.1	B3/5000		
BH	(60°-80°)	1640.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	226.3	0.8			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3
2.5°	3696.5	3700.4	3697.5	3705.2	3696.5	3702.3	3697.5	3697.5	3694.6	3685.8	3676.2
5°	3754.6	3762.3	3757.5	3765.2	3754.6	3756.5	3747.8	3747.8	3739.1	3720.7	3701.3
7.5°	3845.5	3854.3	3850.4	3858.1	3843.6	3843.6	3832.0	3831.0	3813.6	3783.6	3761.3
10°	3954.0	3965.6	3961.7	3973.3	3961.7	3965.6	3954.0	3954.0	3930.7	3888.1	3860.1
12.5°	4111.7	4126.2	4115.6	4114.6	4109.8	4117.5	4107.9	4105.9	4084.6	4026.6	3987.8
15°	4322.7	4338.2	4316.0	4314.0	4286.9	4284.0	4284.0	4281.1	4267.6	4197.9	4134.0
17.5°	4565.7	4570.5	4551.2	4520.2	4485.3	4463.1	4460.2	4467.9	4467.9	4386.6	4285.0
20°	4803.8	4812.5	4797.0	4762.2	4717.6	4684.7	4661.5	4677.0	4676.0	4579.2	4435.0
22.5°	5063.2	5083.5	5060.3	5015.8	4963.5	4926.7	4886.1	4899.6	4900.6	4781.5	4582.1
25°	5399.1	5380.7	5366.2	5303.2	5228.7	5191.0	5153.2	5166.8	5162.9	4999.3	4734.1
27.5°	5696.2	5700.1	5680.7	5613.9	5527.8	5444.6	5442.6	5451.3	5436.8	5225.8	4877.4
30°	6041.8	6043.7	6016.6	5956.6	5862.7	5755.3	5730.1	5744.6	5713.6	5440.7	5028.3
32.5°	6385.4	6395.1	6365.0	6292.5	6217.0	6086.3	6036.0	6045.6	5968.2	5660.4	5184.2
35°	6686.4	6699.9	6690.3	6641.9	6559.6	6447.3	6387.3	6381.5	6285.7	5929.5	5390.4
37.5°	6993.2	7005.8	6995.2	6954.5	6921.6	6802.5	6770.6	6770.6	6604.1	6204.4	5652.7
40°	7308.8	7328.1	7315.5	7259.4	7231.3	7177.1	7100.7	7082.3	6902.2	6534.4	6080.5
42.5°	7602.1	7627.2	7677.5	7644.6	7587.5	7595.3	7441.4	7431.7	7300.1	7022.3	6617.7
45°	8018.3	8055.0	8140.2	8115.0	8103.4	8060.8	7877.9	7869.2	7818.9	7678.5	7284.6
47.5°	8472.2	8522.5	8676.4	8681.3	8806.1	8725.8	8477.1	8447.0	8458.7	8464.5	8098.6
50°	8890.4	8945.5	9198.2	9317.2	9611.5	9628.9	9231.1	9204.0	9249.5	9383.0	9047.2
52.5°	9224.3	9294.0	9609.5	9977.3	10481.6	10624.9	10159.3	10139.0	10172.8	10403.2	10119.6
55°	9469.2	9544.7	9888.3	10558.1	11363.4	11616.0	11227.9	11208.5	11229.8	11523.1	11286.0
57.5°	9526.3	9544.7	10043.1	10949.1	12107.7	12714.6	12535.5	12496.8	12392.3	12647.8	12573.3
60°	9258.2	9331.7	9915.4	11086.6	12683.6	13797.7	13902.2	13853.9	13560.6	13769.6	13709.6
62.5°	8714.2	8845.8	9438.2	10877.5	12909.2	14682.4	15242.8	15184.7	14679.5	14815.0	14526.6
65°	7825.6	7881.8	8504.2	10156.4	12622.7	15248.6	16438.2	16409.2	15773.2	15561.3	14677.6
67.5°	6236.3	6341.8	6870.3	8649.3	11450.5	15181.8	17362.6	17359.7	16487.6	15838.1	14142.3
69°	4926.7	5036.1	5539.4	7124.9	10132.2	14571.1	17517.4	17551.3	16688.9	15669.7	13377.6
70°	3927.8	4054.6	4400.2	6001.1	8962.0	13765.8	17388.7	17449.7	16650.2	15391.9	12672.0
72.5°	1671.6	1774.2	2020.1	3093.5	5462.0	10279.3	15899.1	16129.4	15752.9	14087.1	10472.9
75°	729.8	761.8	873.1	1261.2	2424.6	5594.6	12455.2	12881.1	13469.6	11907.4	7801.4
77.5°	534.3	547.8	608.8	740.5	1087.9	2113.0	8009.5	8257.3	9714.1	8664.8	4785.4
80°	413.3	423.0	470.4	544.0	710.5	854.7	3652.9	3865.9	5462.0	4450.5	1992.9
82.5°	329.1	335.9	368.8	400.7	490.7	517.8	1212.8	1345.4	2016.2	1229.3	527.5
85°	305.9	313.6	325.2	292.3	314.6	303.9	524.6	548.8	608.8	483.0	220.7
87.5°	138.4	163.6	322.3	227.5	167.5	133.6	214.9	224.6	252.6	253.6	97.8
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°	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3	3673.3
2.5°	3682.0	3679.1	3683.9	3672.3	3686.8	3685.8	3681.0	3682.9	3692.6	3691.7	3692.6
5°	3704.2	3702.3	3708.1	3699.4	3716.8	3722.6	3723.6	3732.3	3743.0	3745.9	3745.9
7.5°	3760.4	3760.4	3763.3	3751.7	3763.3	3762.3	3757.5	3766.2	3776.8	3777.8	3776.8
10°	3857.2	3858.1	3853.3	3823.3	3813.6	3787.5	3763.3	3764.2	3777.8	3788.4	3791.3
12.5°	3979.1	3975.3	3954.0	3898.8	3858.1	3804.9	3779.7	3778.8	3792.3	3801.0	3803.9
15°	4118.5	4107.9	4052.7	3962.7	3891.0	3838.8	3798.1	3788.4	3780.7	3771.0	3772.0
17.5°	4250.1	4225.9	4134.0	4009.1	3933.6	3863.9	3785.5	3722.6	3679.1	3653.9	3646.2
20°	4383.7	4336.3	4203.7	4052.7	3956.9	3830.1	3679.1	3551.3	3471.9	3435.2	3428.4
22.5°	4505.7	4429.2	4268.5	4098.2	3938.5	3715.8	3478.7	3292.9	3182.5	3133.2	3137.0
25°	4624.7	4518.3	4336.3	4130.1	3845.5	3514.5	3199.9	2971.5	2843.8	2788.6	2786.6
27.5°	4729.3	4608.3	4409.8	4104.0	3672.3	3228.0	2869.9	2647.3	2540.8	2493.4	2485.6
30°	4849.3	4721.5	4507.6	4004.3	3418.7	2897.0	2547.6	2390.8	2315.3	2267.8	2259.1
32.5°	4995.4	4875.4	4587.9	3823.3	3094.4	2551.4	2295.9	2186.5	2117.8	2064.6	2054.9
35°	5208.4	5078.7	4608.3	3563.9	2738.2	2278.5	2111.0	1998.8	1905.8	1837.1	1830.3
37.5°	5475.5	5333.2	4561.8	3228.0	2392.7	2101.4	1957.1	1818.7	1697.7	1600.9	1585.5
40°	5860.8	5645.9	4433.1	2840.8	2138.1	1964.9	1807.1	1649.3	1499.3	1386.1	1363.8
42.5°	6323.4	6012.7	4235.6	2455.6	1951.3	1826.5	1658.0	1462.5	1319.3	1238.9	1227.3
45°	6911.9	6394.1	3961.7	2118.8	1767.4	1688.1	1497.4	1317.3	1228.3	1169.2	1159.6
47.5°	7583.7	6821.9	3674.2	1844.9	1611.6	1558.4	1368.6	1252.5	1181.8	1135.4	1126.7
50°	8409.3	7304.9	3369.3	1620.3	1454.8	1402.5	1307.7	1216.7	1160.5	1124.7	1116.0
52.5°	9340.4	7849.8	3149.6	1443.2	1325.1	1287.3	1275.7	1197.3	1151.8	1124.7	1116.0
55°	10343.2	8404.5	2912.5	1294.1	1212.8	1223.5	1254.4	1199.3	1168.3	1135.4	1122.8
57.5°	11346.9	8977.5	2648.2	1168.3	1123.8	1176.0	1239.9	1203.1	1177.0	1145.1	1133.4
60°	12140.6	9340.4	2238.8	1062.8	1053.1	1123.8	1205.1	1174.1	1140.2	1141.2	1139.2
62.5°	12511.3	9321.1	1786.8	968.9	982.4	1053.1	1148.9	1128.6	1100.5	1138.3	1141.2
65°	12303.2	8856.5	1390.9	883.7	906.9	979.5	1090.8	1106.3	1116.0	1188.6	1198.3
67.5°	11430.2	7952.4	1077.3	809.2	838.2	929.2	1096.7	1205.1	1217.6	1294.1	1293.1
69°	10527.1	7104.5	936.0	770.5	804.3	941.8	1172.2	1268.0	1220.5	1301.9	1290.2
70°	9770.2	6433.8	860.5	744.3	788.9	964.0	1222.5	1267.0	1206.0	1275.7	1256.4
72.5°	7524.6	4628.6	729.8	695.9	736.6	922.4	1237.0	1238.9	1172.2	1185.7	1152.8
75°	5161.0	2925.1	636.9	630.1	657.2	831.4	1190.5	1183.8	1084.1	1064.7	1037.6
77.5°	2845.7	1485.8	541.1	567.2	585.6	736.6	1082.1	1072.5	990.2	949.5	939.9
80°	1097.6	650.4	456.9	504.3	515.9	637.9	948.6	939.9	871.1	818.9	804.3
82.5°	414.3	340.7	377.5	436.5	432.7	526.5	803.4	798.5	731.7	655.3	632.1
85°	191.6	204.2	299.1	360.1	332.0	390.1	642.7	651.4	570.1	479.1	479.1
87.5°	81.3	114.2	212.0	272.0	223.6	263.3	471.4	450.1	413.3	286.5	269.1
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

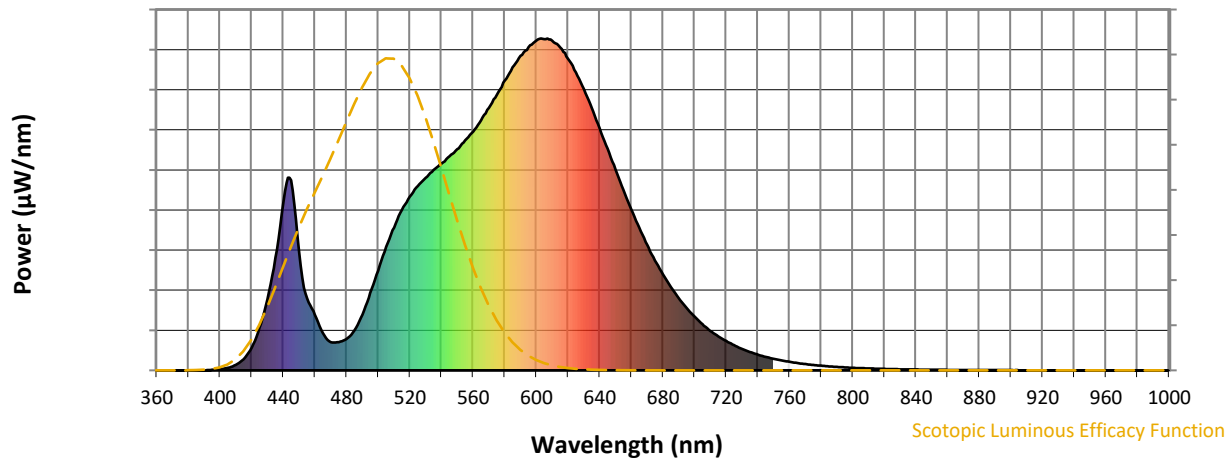


Photopic Lumens: NR

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 [^] /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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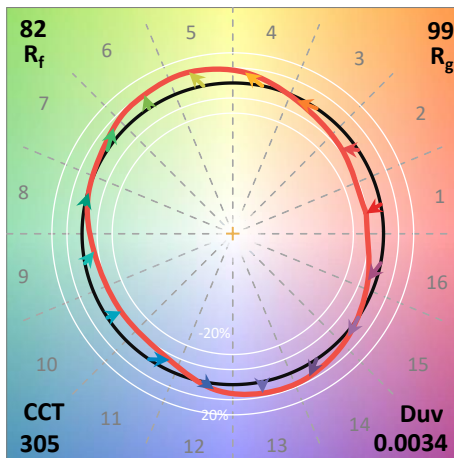
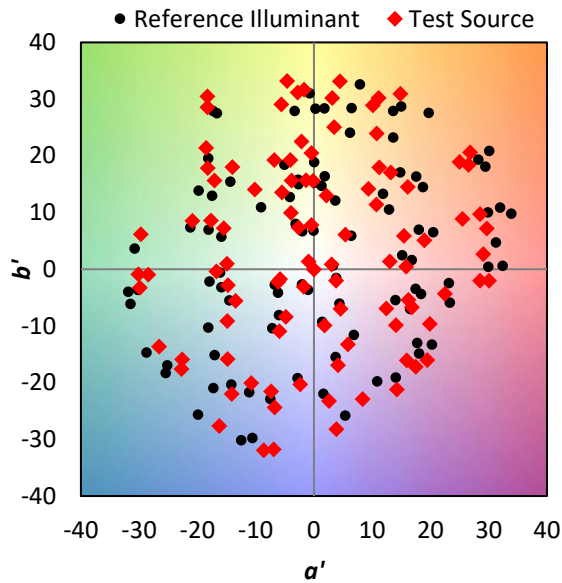
TM-30-18

Summary

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



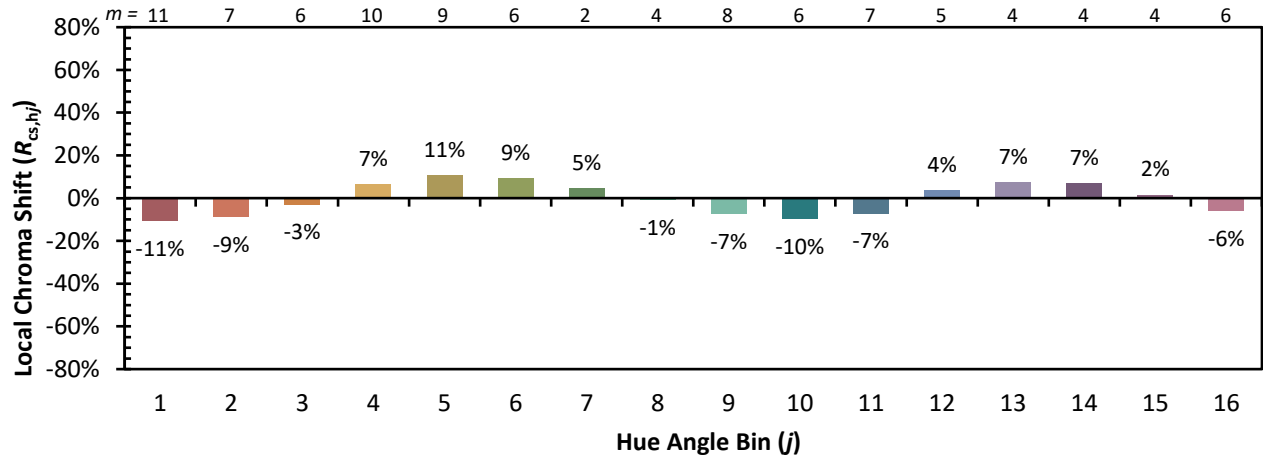
Color Vector Graphics

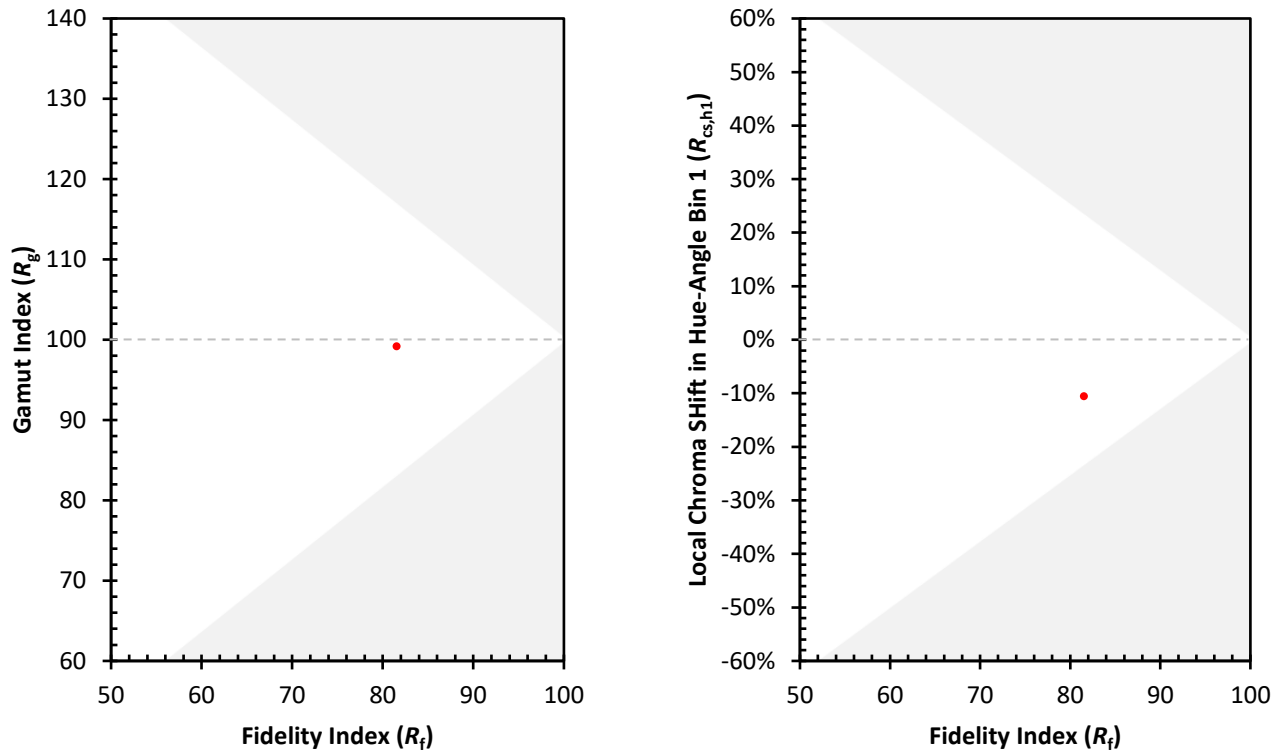


Individual Sample Fidelity Index ($R_{f,i}$)

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)