

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: P319854

Luminaire Tested: **GLEON-SA0C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55636 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

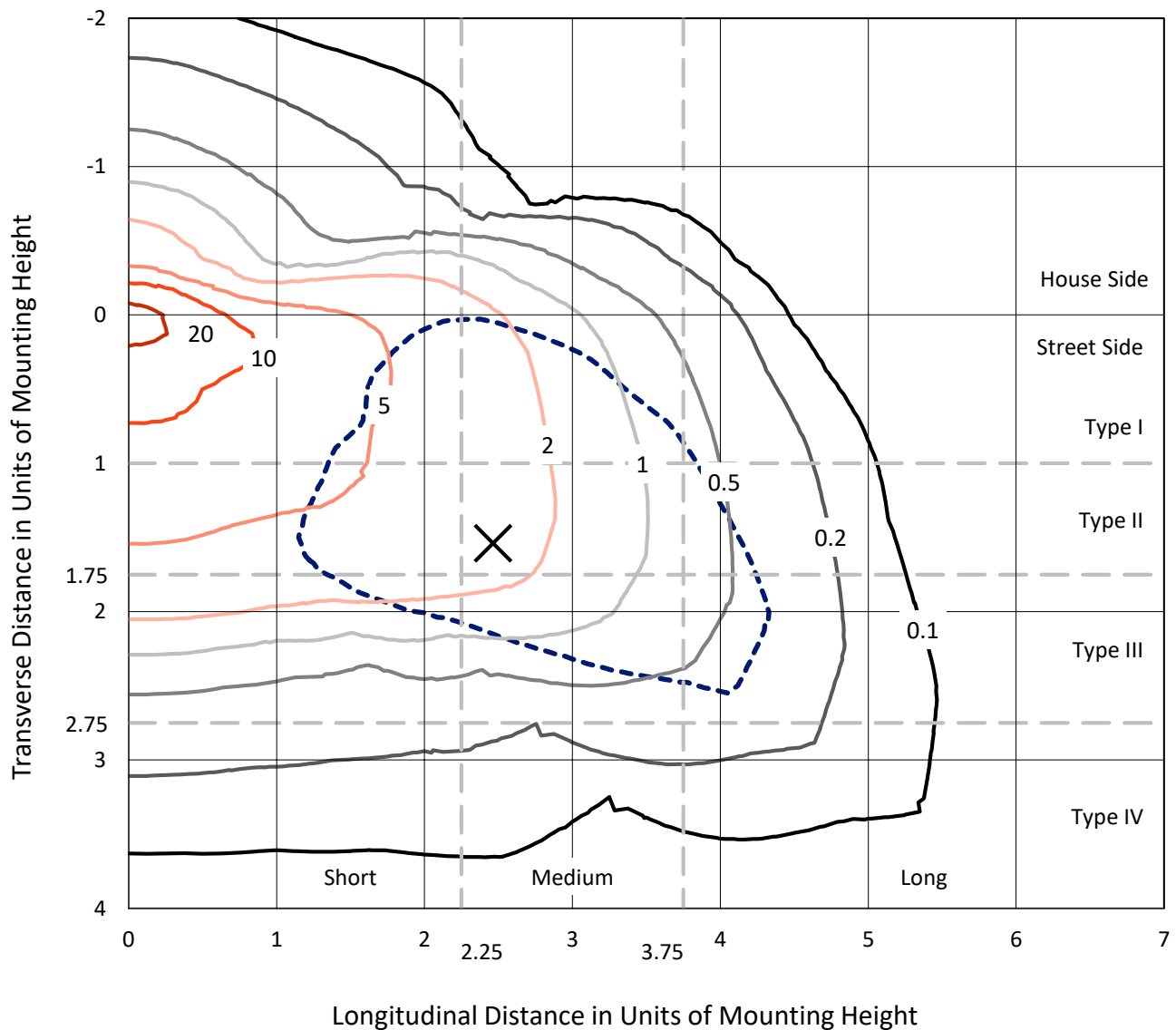
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

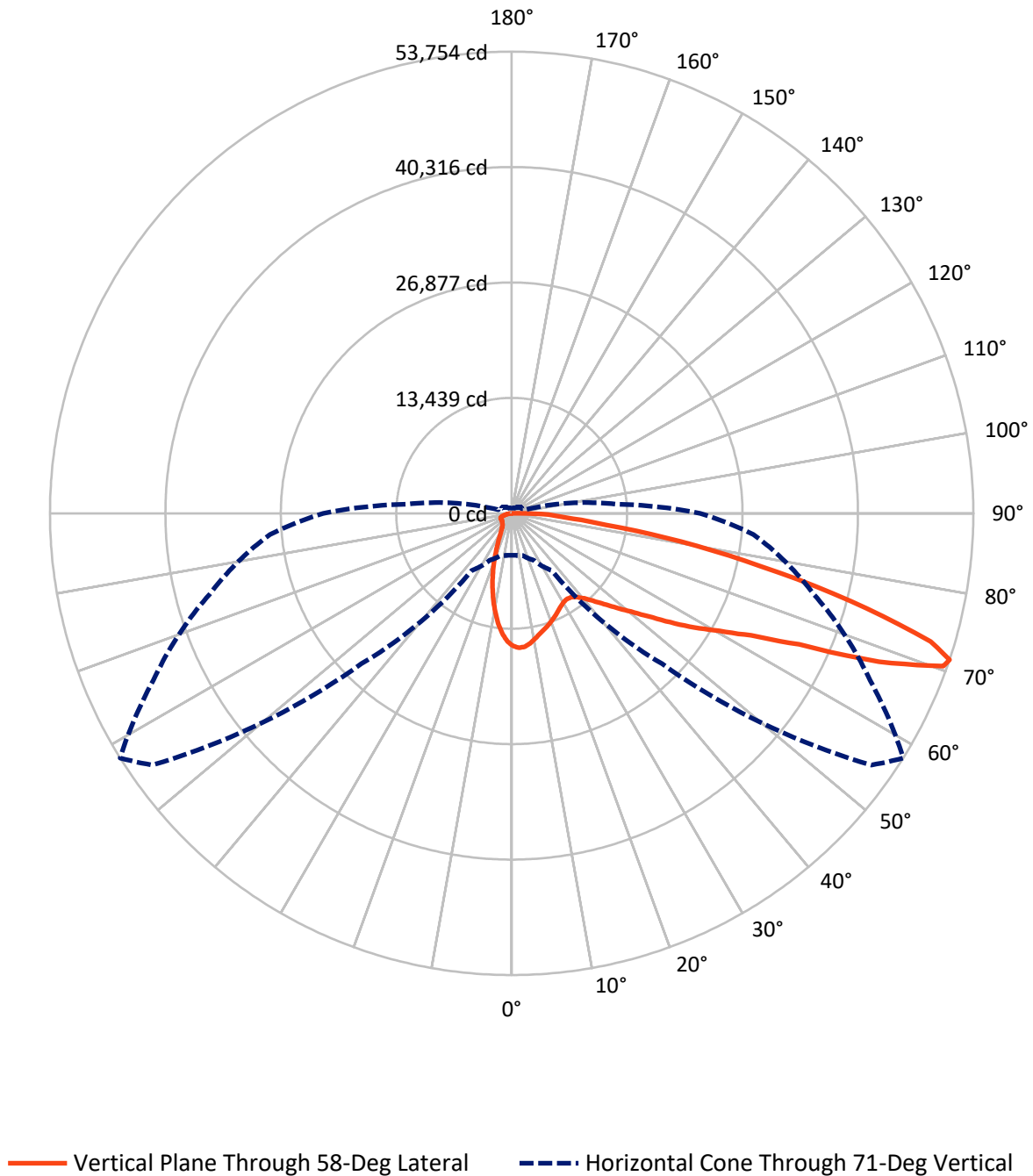
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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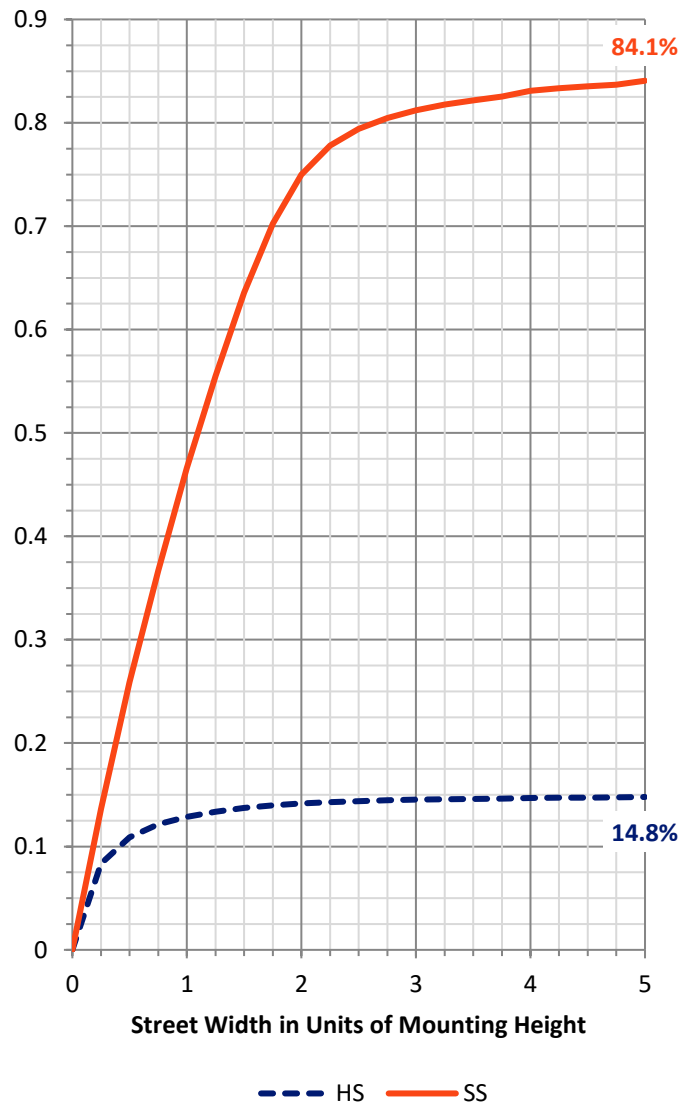
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8318.0	0.0	8318.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	47318.0	0.0	47318.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	55636.0	0.0	55636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1329.8	2.4
10°-20°	2957.1	5.3
20°-30°	3758.1	6.8
30°-40°	4787.1	8.6
40°-50°	6788.3	12.2
50°-60°	10505.2	18.9
60°-70°	14301.5	25.7
70°-80°	9540.8	17.1
80°-90°	1668.1	3.0
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°	55636.0	100.0
0°-180°	55636.0	100.0

Coefficient of Utilization



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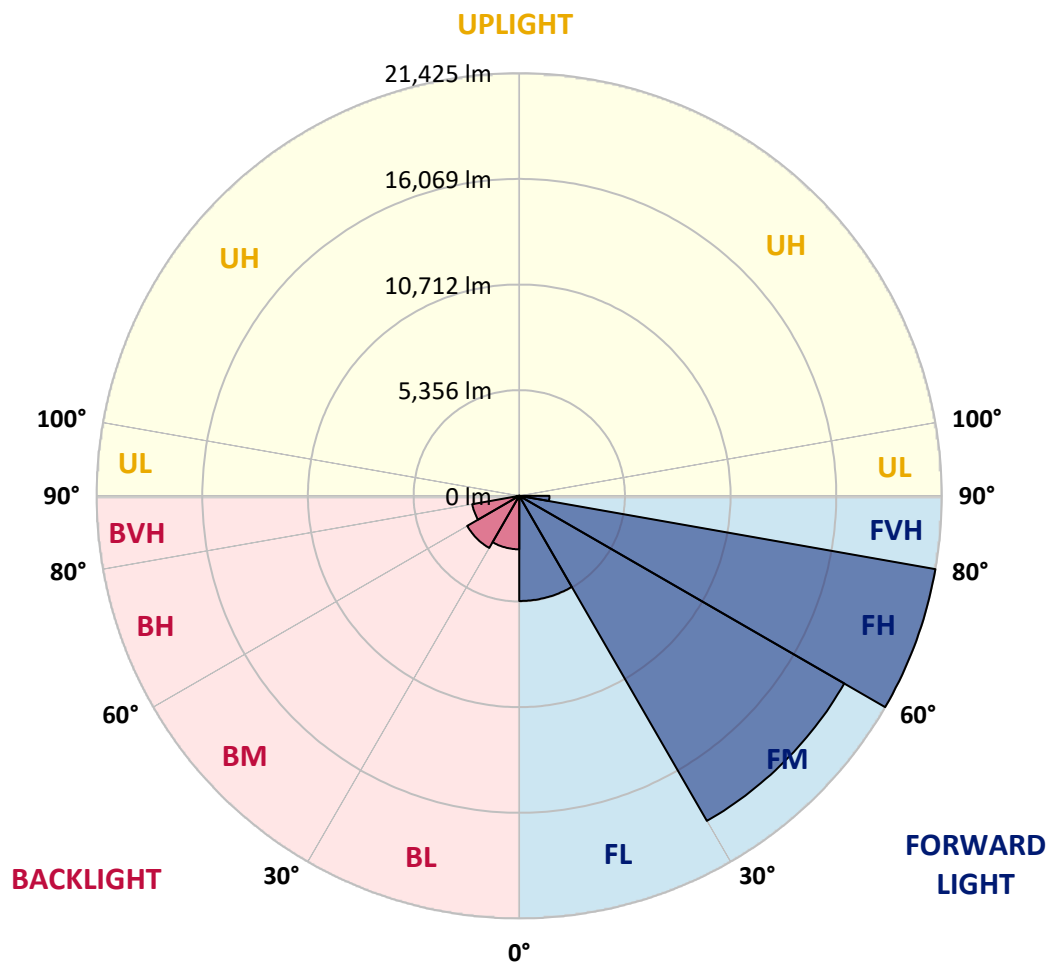
CATALOG NUMBER: GLEON-SA0C-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5333.6	9.6			
FM	(30°-60°)	19030.2	34.2			
FH	(60°-80°)	21424.7	38.5			G5
FVH	(80°-90°)	1529.5	2.7			G5
BL	(0°-30°)	2711.4	4.9	B4/5000		
BM	(30°-60°)	3050.4	5.5	B3/5000		
BH	(60°-80°)	2417.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	138.6	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9
2.5°	15823.8	15802.5	15810.2	15794.7	15757.9	15721.1	15666.8	15676.5	15600.9	15488.5	15349.0
5°	15525.4	15517.6	15575.7	15608.7	15635.8	15614.5	15599.0	15618.4	15507.9	15352.9	15110.6
7.5°	14899.4	14814.1	14887.8	14998.2	15102.9	15182.3	15287.0	15300.5	15230.8	15068.0	14750.2
10°	14009.8	13928.4	14037.0	14209.5	14418.8	14608.7	14819.9	14858.7	14872.2	14725.0	14339.3
12.5°	13087.3	13025.3	13133.9	13376.1	13723.0	14015.7	14352.9	14411.0	14531.2	14432.3	13959.4
15°	12261.8	12238.5	12370.3	12608.7	13007.9	13455.6	13942.0	14048.6	14252.1	14219.1	13662.9
17.5°	11548.6	11542.8	11643.5	11893.5	12335.4	12901.3	13533.1	13713.3	14015.7	14054.4	13418.7
20°	11017.6	11005.9	11075.7	11259.8	11715.2	12356.7	13091.2	13339.3	13775.3	13911.0	13166.8
22.5°	10732.7	10730.7	10732.7	10819.9	11192.0	11788.9	12661.0	12963.3	13540.8	13796.7	12887.7
25°	10684.2	10678.4	10635.8	10626.1	10837.3	11314.1	12234.6	12568.0	13318.0	13717.2	12622.2
27.5°	10810.2	10817.9	10761.7	10670.7	10713.3	11002.1	11864.5	12221.1	13139.7	13701.7	12438.1
30°	11071.8	11067.9	11019.5	10924.5	10841.2	10885.8	11600.9	11957.5	13019.5	13769.5	12312.1
32.5°	11360.6	11381.9	11372.2	11319.9	11195.9	11017.6	11521.4	11870.3	12984.6	13932.3	12257.9
35°	11707.5	11730.7	11800.5	11841.2	11695.9	11409.0	11692.0	11994.3	13085.4	14238.5	12345.1
37.5°	12036.9	12097.0	12292.8	12465.2	12341.2	12021.4	12145.5	12360.6	13397.4	14721.1	12579.6
40°	12416.8	12469.1	12788.9	13155.2	13135.8	12804.4	12876.1	13019.5	13947.8	15413.0	13004.0
42.5°	12790.8	12895.5	13358.7	13878.1	14027.3	13734.6	13849.0	13924.6	14723.0	16329.6	13744.3
45°	13288.9	13401.3	14044.7	14670.7	15019.5	14854.8	15037.0	15066.1	15697.8	17577.7	14819.9
47.5°	14042.8	14170.7	14920.7	15577.7	16110.6	16128.1	16428.5	16416.8	16914.9	19006.0	16174.6
50°	15217.2	15401.3	16015.7	16630.0	17277.3	17637.8	18038.9	17982.7	18374.2	20527.3	17734.7
52.5°	16756.0	16841.3	17296.7	17750.2	18554.5	19362.6	19938.2	19887.8	20029.3	22091.3	19506.0
55°	18351.0	18414.9	18602.9	18851.0	19932.4	21250.2	22467.3	22387.8	22029.3	23715.4	21256.0
57.5°	19785.1	19914.9	20044.8	20147.5	21320.0	23223.1	25054.5	25060.3	24199.9	25467.3	23064.2
60°	20008.0	20122.3	20980.8	21790.9	23694.0	25854.9	27823.9	27765.8	26446.0	27368.5	25079.7
62.5°	17686.2	17944.0	19378.1	21533.2	25980.9	30668.9	31356.9	31285.2	29132.1	29711.6	27426.6
65°	12674.6	12967.2	14697.8	17936.2	24872.4	35973.2	37733.0	36767.8	32794.9	32593.4	30174.7
67.5°	7312.1	7381.9	8131.9	10732.7	18938.2	36250.4	47459.8	46109.0	38483.0	35862.8	31519.7
70°	5407.0	5405.1	5583.4	6604.7	10248.2	29585.6	52085.8	53297.1	44471.4	36938.4	29618.5
71°	4889.6	4895.4	5095.0	6011.7	8116.4	24763.8	51103.3	53754.4	46048.9	36407.4	28242.5
72.5°	4182.2	4201.6	4478.7	5391.5	6827.6	17077.7	46870.6	51010.2	46797.0	35097.3	26089.4
75°	3172.5	3217.1	3600.8	4544.6	6240.4	8660.9	34399.6	40733.0	41572.1	30969.3	19385.9
77.5°	2263.6	2314.0	2748.1	3821.7	5932.2	6527.2	23037.1	29711.6	30593.3	19847.1	8744.3
80°	1430.2	1490.3	1817.8	3040.7	5573.7	6197.7	14476.9	19971.1	16682.3	6350.8	2224.8
82.5°	839.2	885.7	1127.9	1986.5	4552.4	5969.1	8517.5	11069.9	6492.3	1918.6	1011.6
85°	486.4	507.8	703.5	1265.5	3306.2	5633.8	6257.8	6188.0	2817.9	938.0	478.7
87.5°	226.7	251.9	416.7	660.9	1835.3	4083.4	4945.8	4273.3	1752.0	439.9	224.8
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°	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9	15414.9
2.5°	15281.2	15248.2	15110.6	14988.5	14860.6	14694.0	14509.8	14486.6	14374.2	14395.5	14356.7
5°	14978.8	14895.5	14564.1	14263.7	13909.1	13591.2	13246.3	13087.3	12858.7	12843.2	12785.0
7.5°	14546.7	14391.6	13878.1	13308.3	12738.5	12195.9	11659.0	11306.3	10945.9	10792.7	10779.2
10°	14060.2	13796.7	13040.8	12197.8	11376.1	10583.4	9816.0	9248.2	8736.5	8494.3	8484.6
12.5°	13599.0	13209.4	12172.6	11025.3	9901.3	8874.1	7821.8	7075.7	6434.2	6219.1	6128.0
15°	13207.5	12659.0	11327.6	9860.6	8496.2	7069.8	5872.2	5087.3	4494.2	4288.8	4250.0
17.5°	12827.7	12122.2	10461.4	8684.2	7035.0	5467.1	4267.5	3684.1	3368.3	3284.9	3283.0
20°	12449.7	11569.9	9556.3	7480.7	5622.2	4089.2	3281.0	3019.4	2912.8	2903.1	2887.6
22.5°	12021.4	10984.6	8604.7	6273.3	4387.6	3215.2	2788.8	2684.1	2670.6	2705.5	2705.5
25°	11620.3	10403.2	7639.6	5091.1	3412.8	2682.2	2490.3	2469.0	2505.8	2567.9	2573.7
27.5°	11246.2	9843.1	6697.7	4040.7	2734.5	2362.4	2283.0	2308.2	2374.1	2445.8	2447.7
30°	10938.1	9314.1	5783.0	3184.1	2310.1	2124.1	2110.5	2160.9	2232.6	2288.8	2302.3
32.5°	10699.7	8862.5	4899.3	2560.1	2033.0	1945.8	1957.4	2000.0	2044.6	2075.6	2096.9
35°	10589.3	8474.9	4083.4	2158.9	1856.6	1808.2	1823.7	1846.9	1866.3	1889.6	1907.0
37.5°	10608.6	8174.5	3354.7	1908.9	1738.4	1713.2	1713.2	1713.2	1713.2	1724.8	1726.8
40°	10788.9	8002.0	2761.7	1750.0	1658.9	1631.8	1610.5	1591.1	1575.6	1583.4	1579.5
42.5°	11250.1	7986.5	2327.5	1649.2	1595.0	1550.4	1507.8	1480.6	1461.3	1469.0	1472.9
45°	12033.1	8180.3	2034.9	1577.5	1534.9	1467.1	1412.8	1383.7	1370.2	1395.4	1399.2
47.5°	13046.6	8602.8	1856.6	1525.2	1478.7	1389.5	1331.4	1304.3	1308.2	1345.0	1354.7
50°	14352.9	9288.9	1771.3	1492.3	1439.9	1323.7	1263.6	1240.3	1252.0	1304.3	1315.9
52.5°	15787.0	10277.2	1781.0	1482.6	1414.7	1275.2	1211.3	1184.1	1203.5	1252.0	1261.6
55°	17442.0	11465.2	1941.9	1496.1	1377.9	1244.2	1168.6	1122.1	1137.6	1182.2	1189.9
57.5°	19281.2	12825.7	2265.5	1492.3	1331.4	1215.1	1124.0	1054.3	1065.9	1093.0	1100.8
60°	21196.0	14469.1	2767.5	1503.9	1310.1	1180.2	1064.0	976.8	972.9	996.1	1000.0
62.5°	23494.4	16370.3	3341.1	1511.6	1323.7	1135.7	984.5	899.2	887.6	893.4	897.3
65°	25862.7	17746.3	3126.0	1480.6	1366.3	1098.8	914.7	823.7	802.3	798.5	800.4
67.5°	25936.3	16271.5	2191.9	1418.6	1383.7	1079.5	862.4	759.7	724.8	711.2	709.3
70°	23259.9	13219.1	1707.4	1352.7	1314.0	1048.5	814.0	707.4	655.0	633.7	631.8
71°	21953.7	12168.7	1618.2	1319.8	1261.6	1017.5	792.6	684.1	629.9	606.6	602.7
72.5°	19905.2	10909.0	1509.7	1267.5	1160.9	938.0	751.9	651.2	595.0	567.8	562.0
75°	14285.0	7133.8	1296.5	1129.9	961.3	748.1	658.9	585.3	536.8	503.9	500.0
77.5°	5503.9	2839.2	980.6	939.9	736.4	585.3	542.6	505.8	470.9	438.0	436.1
80°	1701.6	1269.4	715.1	707.4	533.0	436.1	422.5	412.8	399.2	364.3	356.6
82.5°	908.9	728.7	492.3	457.4	348.8	290.7	306.2	310.1	312.0	275.2	271.3
85°	434.1	385.7	277.1	259.7	203.5	162.8	188.0	203.5	205.4	168.6	157.0
87.5°	207.4	201.6	129.8	98.8	75.6	54.3	65.9	81.4	89.1	64.0	56.2
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

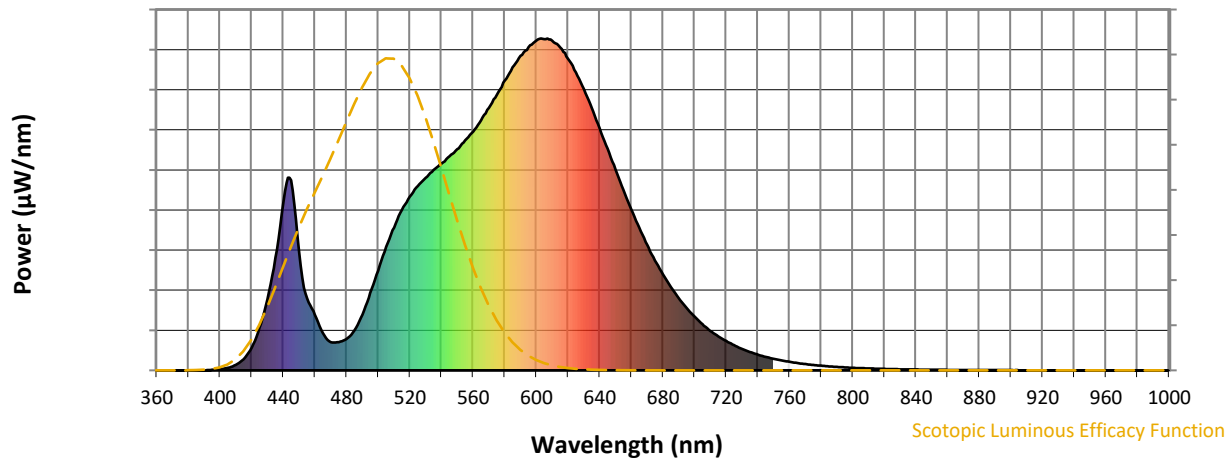


Photopic Lumens: NR

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

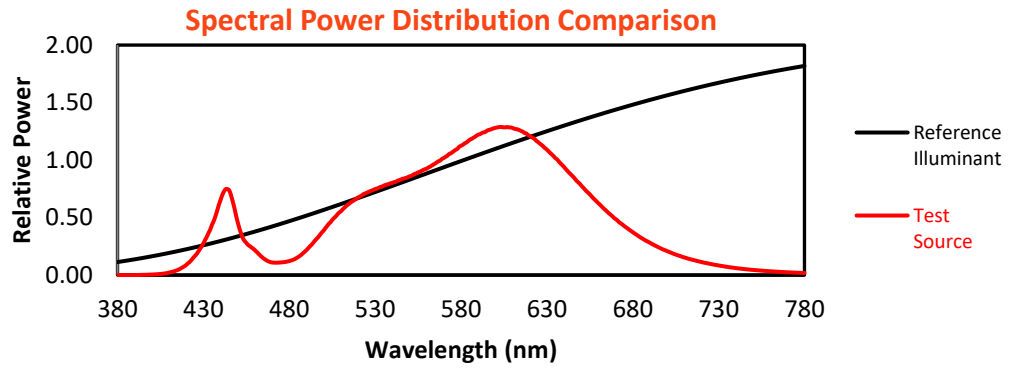
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	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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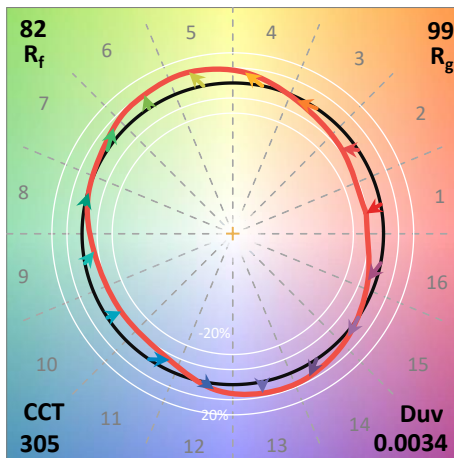
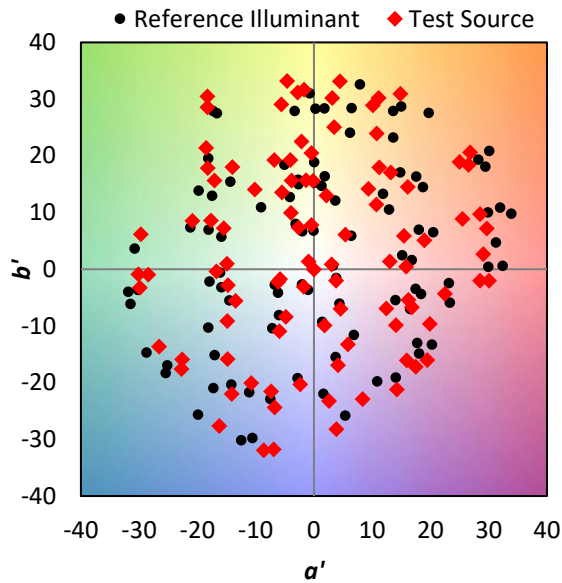
TM-30-18

Summary

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

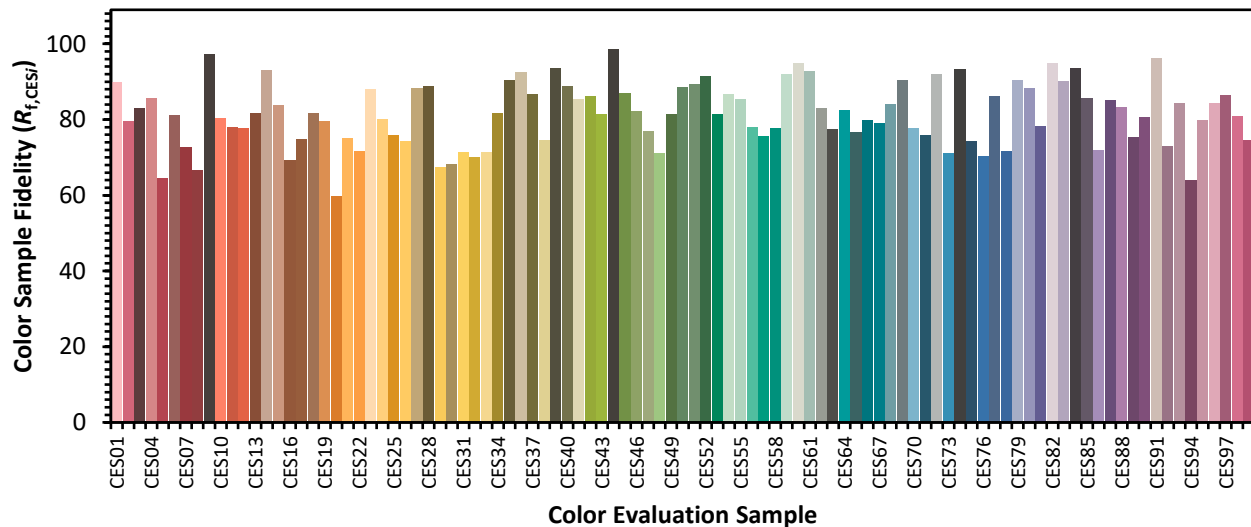


Color Vector Graphics

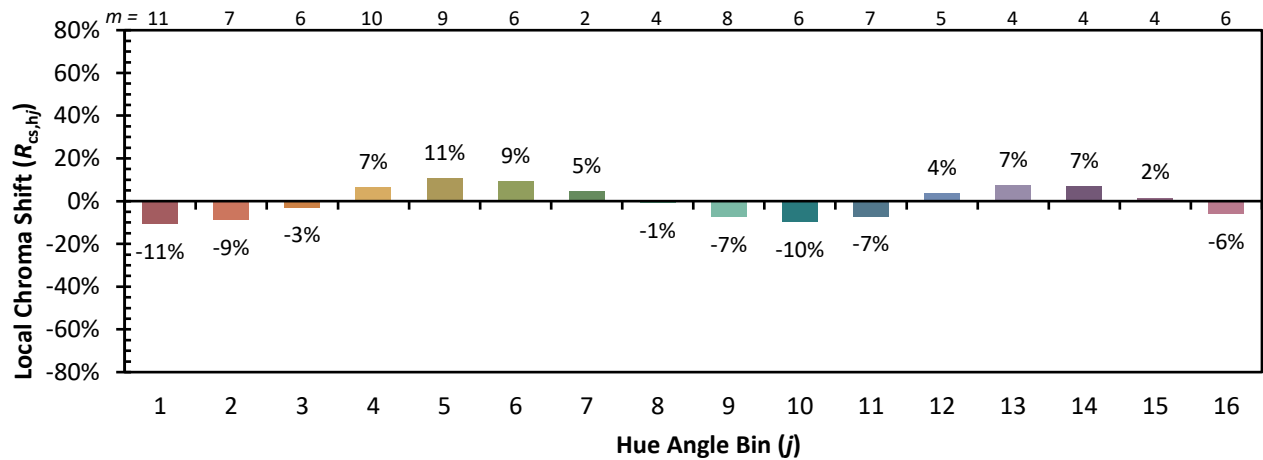


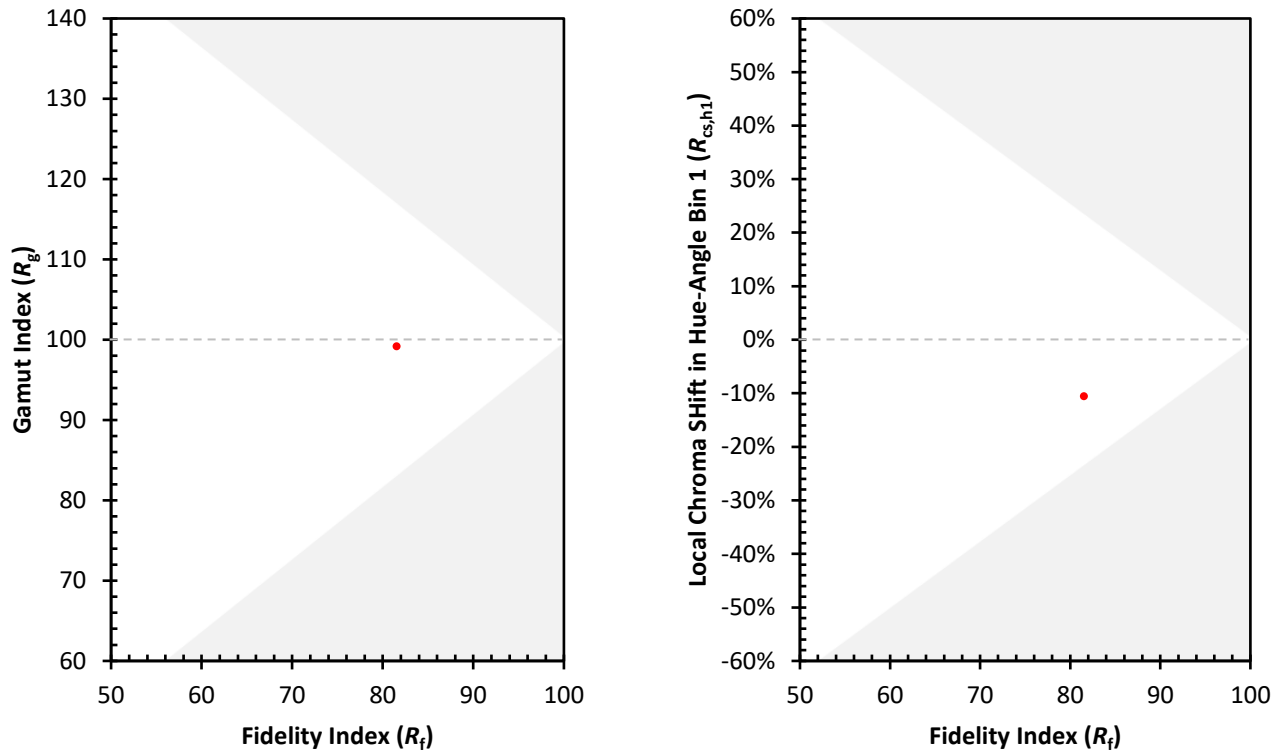
Individual Sample Fidelity Index ($R_{f,i}$)

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)