

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: P323371

Luminaire Tested: **GLEON-SA7C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32928 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

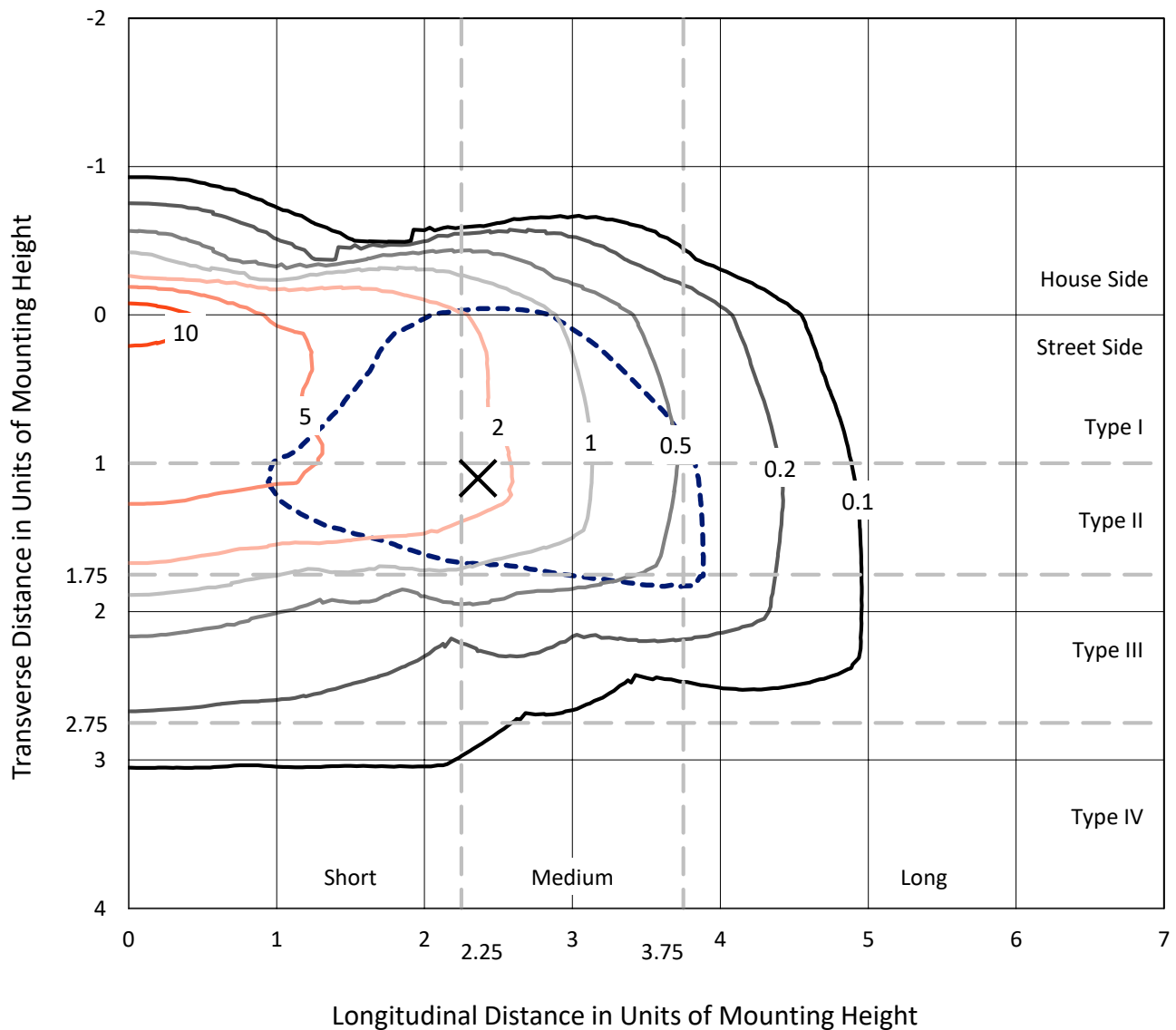
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

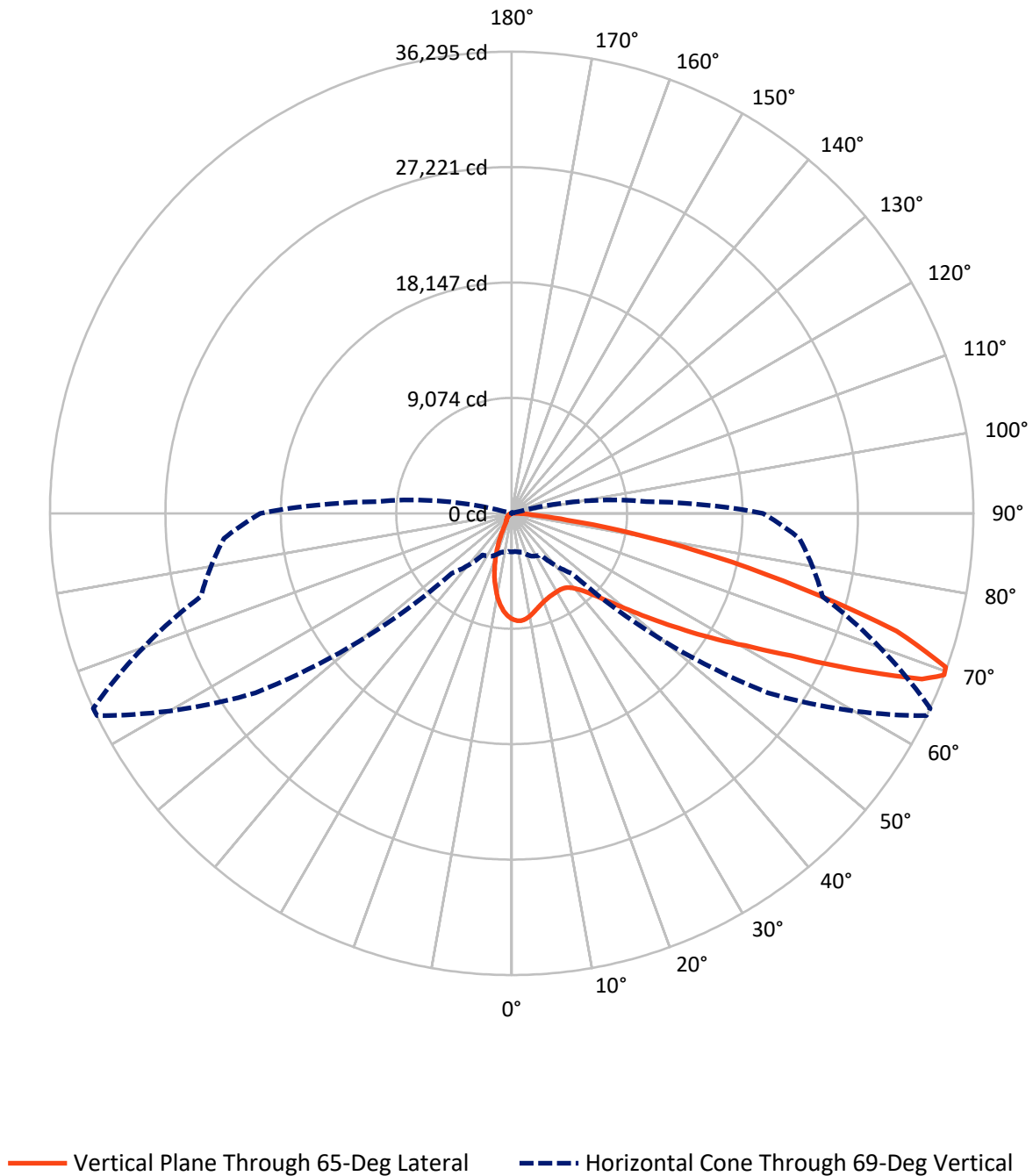
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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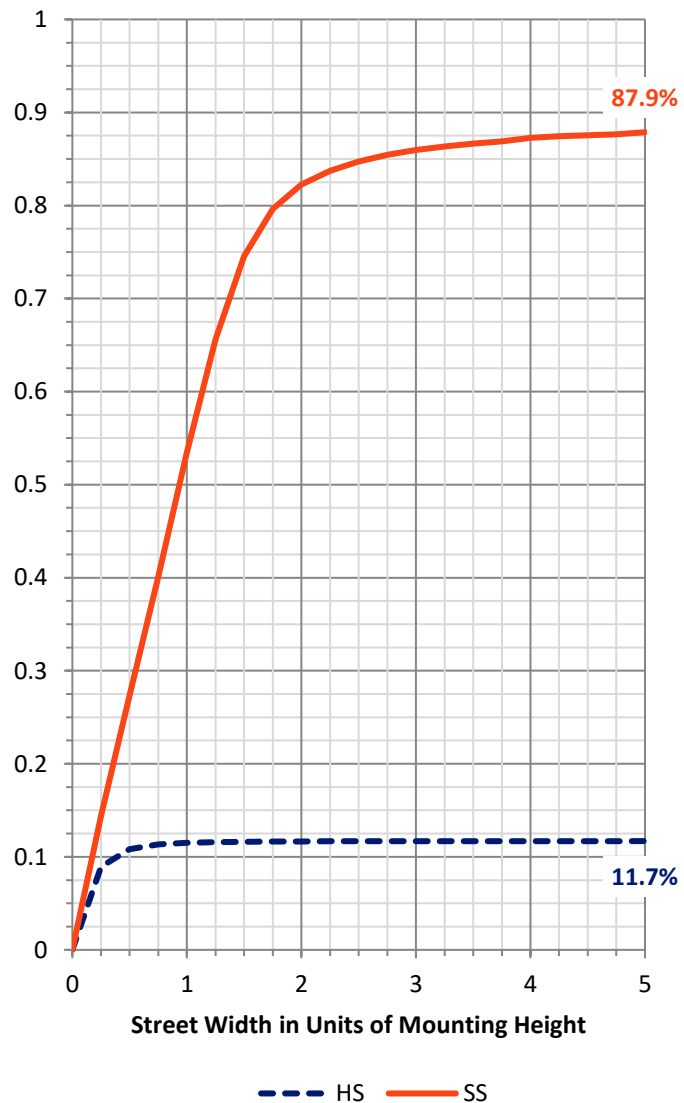
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3881.4	0.0	3881.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	29046.6	0.0	29046.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	32928.0	0.0	32928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.8	2.1
10°-20°	1523.2	4.6
20°-30°	2109.6	6.4
30°-40°	2941.5	8.9
40°-50°	4572.0	13.9
50°-60°	7339.9	22.3
60°-70°	8302.6	25.2
70°-80°	4876.2	14.8
80°-90°	567.2	1.7
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°	32928.0	100.0
0°-180°	32928.0	100.0

Coefficient of Utilization



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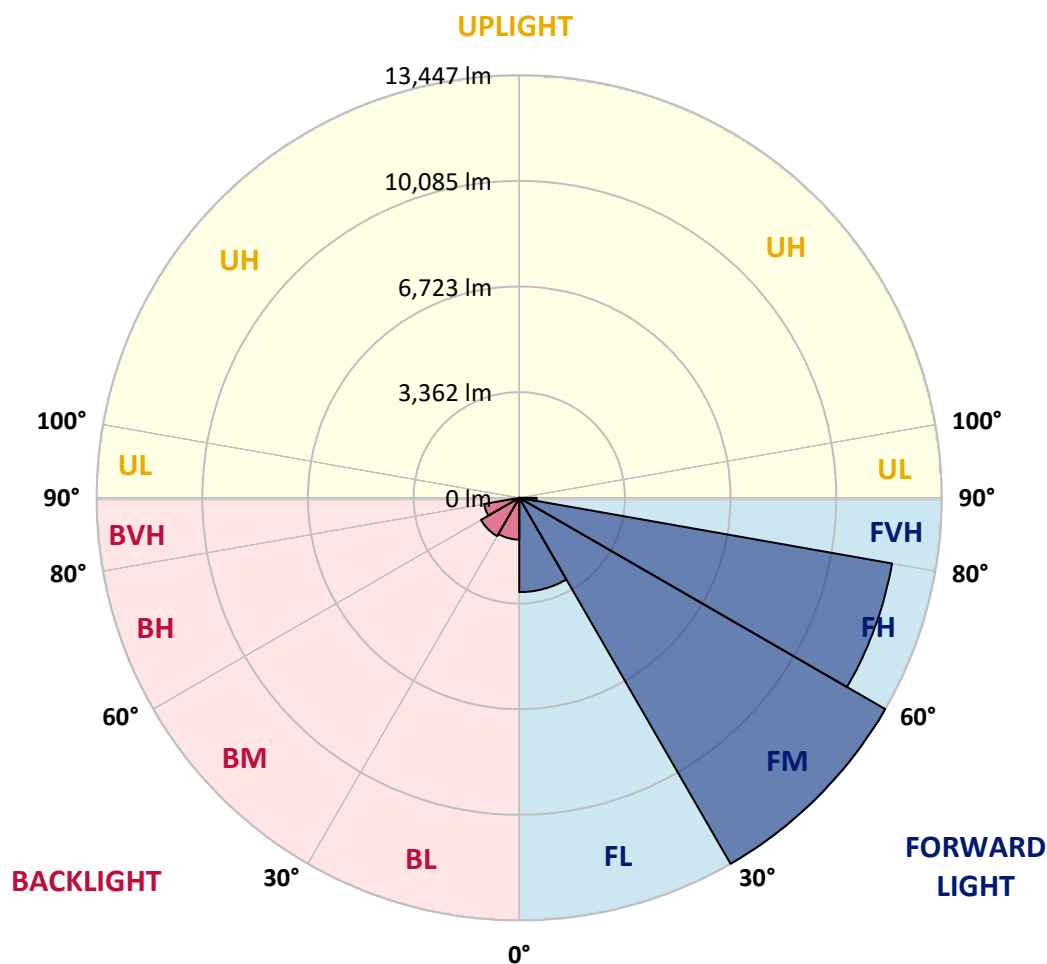
CATALOG NUMBER: GLEON-SA7C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3000.5	9.1			
FM	(30°-60°)	13446.8	40.8			
FH	(60°-80°)	12044.7	36.6			G5
FVH	(80°-90°)	554.5	1.7			G4/750
BL	(0°-30°)	1328.1	4.0	B3/2500		
BM	(30°-60°)	1406.5	4.3	B2/2500		
BH	(60°-80°)	1134.1	3.4	B3/2500		G3/2500
BVH	(80°-90°)	12.8	0.0			G1/100
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°	55°	64°	65°	75°	85°
0°	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0
2.5°	8394.8	8373.9	8390.6	8426.9	8445.0	8445.0	8458.9	8442.2	8447.8	8407.3	8348.8
5°	7869.5	7837.5	7883.5	7985.2	8110.6	8217.9	8376.7	8460.3	8468.7	8470.0	8401.8
7.5°	7303.8	7274.6	7342.8	7462.7	7624.3	7823.5	8100.8	8343.3	8357.2	8488.2	8438.0
10°	6844.0	6823.1	6902.6	7030.7	7220.2	7443.2	7783.1	8120.3	8160.7	8450.5	8432.4
12.5°	6479.0	6462.3	6537.5	6685.2	6878.9	7125.5	7480.8	7872.3	7926.7	8365.5	8404.6
15°	6212.9	6210.1	6272.8	6414.9	6629.5	6859.4	7223.0	7642.4	7705.1	8273.6	8400.4
17.5°	6073.5	6077.7	6123.7	6244.9	6428.8	6657.3	7005.7	7448.7	7517.0	8191.4	8421.3
20°	6059.6	6063.8	6088.8	6157.1	6306.2	6508.2	6828.7	7285.7	7356.8	8130.1	8454.7
22.5°	6182.2	6179.4	6186.4	6179.4	6263.0	6416.3	6711.7	7160.3	7242.5	8089.7	8481.2
25°	6417.7	6413.5	6410.7	6359.2	6303.4	6385.6	6662.9	7089.3	7167.3	8060.4	8496.5
27.5°	6745.1	6742.3	6738.1	6653.1	6485.9	6434.4	6668.5	7062.8	7128.3	8036.7	8493.7
30°	7175.6	7195.2	7189.6	7071.1	6810.6	6583.5	6727.0	7048.9	7106.0	7990.7	8464.5
32.5°	7681.4	7720.4	7751.1	7624.3	7298.3	6878.9	6862.1	7064.2	7106.0	7955.9	8411.5
35°	8206.7	8256.9	8369.7	8325.1	7896.0	7323.3	7094.8	7156.1	7191.0	7975.4	8386.4
37.5°	8723.6	8783.5	9028.8	9158.4	8679.0	7911.3	7457.1	7383.3	7401.4	8093.9	8414.3
40°	9324.2	9414.7	9786.7	9995.7	9614.0	8698.6	7999.1	7773.4	7780.4	8354.4	8543.9
42.5°	10112.8	10206.1	10608.8	10936.2	10667.3	9693.4	8734.8	8369.7	8362.8	8842.1	8849.0
45°	11074.2	11171.7	11588.3	11952.0	11830.8	10872.1	9676.7	9240.6	9232.2	9611.2	9427.3
47.5°	12163.8	12259.9	12631.9	13006.7	13137.7	12248.8	10876.3	10429.1	10409.6	10679.9	10320.4
50°	13098.7	13161.4	13504.1	14008.5	14599.3	13940.3	12368.6	11938.0	11917.1	12099.7	11631.5
52.5°	13438.7	13474.9	13823.2	14529.6	16003.8	16230.9	14329.0	13774.5	13759.1	13838.5	13377.4
55°	12750.4	12815.8	13243.6	14291.4	16764.5	18819.7	16803.6	16048.4	15932.7	15761.3	15202.6
57.5°	10874.9	10979.4	11439.2	12832.6	16409.2	20873.5	20440.1	18620.5	18450.5	17402.7	16686.5
60°	8148.2	8276.4	8658.1	10161.6	14512.9	21605.0	24413.9	21486.5	21103.4	18709.6	18050.6
62.5°	5591.4	5655.5	5914.7	6894.2	10688.2	20406.7	27738.4	25325.2	24625.7	20130.8	19526.1
65°	4270.6	4292.8	4398.7	4735.9	6364.7	16576.4	29060.7	30389.9	29544.2	21830.7	21057.4
67.5°	3441.5	3423.4	3569.7	4051.8	4262.2	10112.8	27518.3	35181.6	34785.9	24103.2	22598.4
69°	3034.7	3009.6	3158.7	3718.8	4003.0	6685.2	24600.6	36269.8	36294.8	25302.9	22704.3
70°	2730.9	2747.6	2895.3	3520.9	3915.3	5247.3	21814.0	35992.5	36190.3	25751.5	22068.9
72.5°	1823.9	1868.5	2165.2	2923.2	3764.8	3971.0	13171.1	30885.9	31646.7	24741.4	18934.0
75°	1028.3	1061.7	1414.2	2204.2	3547.4	3781.5	6956.9	22754.5	23490.1	20689.5	14600.7
77.5°	504.4	522.5	799.8	1422.6	2966.4	3603.1	3945.9	15456.2	16296.4	13504.1	8258.3
80°	213.2	222.9	399.9	877.8	2120.6	3438.7	2930.2	9512.3	9616.8	5290.5	2200.1
82.5°	82.2	85.0	168.6	547.6	1347.3	2680.8	2450.9	4510.2	4401.5	996.2	501.6
85°	9.8	11.1	61.3	328.8	749.6	1379.4	1991.1	1943.7	1798.8	197.9	257.8
87.5°	0.0	0.0	4.2	100.3	222.9	646.5	1035.2	806.7	727.3	64.1	133.8
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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CATALOG NUMBER: GLEON-SA7C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0	8321.0
2.5°	8300.1	8286.1	8210.9	8102.2	7999.1	7870.9	7748.3	7674.5	7615.9	7576.9	7622.9
5°	8322.4	8261.1	8032.5	7739.9	7452.9	7129.7	6828.7	6573.7	6473.4	6361.9	6412.1
7.5°	8315.4	8199.7	7788.7	7267.6	6740.9	6196.1	5680.6	5283.5	5077.3	4875.3	4926.8
10°	8280.6	8085.5	7462.7	6690.8	5902.1	5119.1	4387.6	3831.7	3520.9	3239.5	3279.9
12.5°	8203.9	7932.2	7078.1	6030.3	4975.6	3943.1	3086.2	2374.2	1992.5	1823.9	1844.8
15°	8157.9	7783.1	6671.3	5361.5	3986.3	2746.3	1886.6	1403.1	1228.9	1173.2	1180.2
17.5°	8135.7	7639.6	6250.5	4596.6	2974.8	1748.6	1219.2	1075.7	1038.0	1028.3	1031.1
20°	8113.4	7494.7	5817.2	3840.0	2049.6	1176.0	1001.8	960.0	946.1	933.5	936.3
22.5°	8075.7	7355.4	5351.8	3073.7	1382.2	954.4	902.9	862.5	833.2	817.9	820.7
25°	8029.8	7209.1	4876.7	2289.2	1008.8	851.3	802.6	745.4	710.6	682.7	684.1
27.5°	7955.9	7029.3	4386.2	1666.4	847.1	762.2	696.7	634.0	575.4	543.4	543.4
30°	7852.8	6825.9	3841.4	1192.7	759.4	674.4	595.0	516.9	454.2	425.0	422.2
32.5°	7738.6	6614.1	3291.0	904.3	689.7	592.2	501.6	419.4	363.7	340.0	338.6
35°	7641.0	6385.6	2742.1	758.0	620.0	512.7	413.8	344.2	299.6	280.1	278.7
37.5°	7578.3	6157.1	2207.0	677.2	557.3	438.9	346.9	284.2	252.2	236.9	235.5
40°	7568.6	5987.1	1718.0	615.9	498.8	373.4	289.8	241.0	211.8	195.1	193.7
42.5°	7695.4	5889.6	1318.1	564.3	438.9	316.3	246.6	206.2	175.6	158.8	157.4
45°	8028.4	5920.3	1014.3	518.3	379.0	267.5	209.0	171.4	143.5	131.0	128.2
47.5°	8635.9	6132.0	806.7	472.3	321.9	227.1	178.3	142.1	118.4	105.9	104.5
50°	9717.1	6629.5	674.4	422.2	268.9	193.7	147.7	115.6	96.1	85.0	83.6
52.5°	11152.2	7515.6	601.9	373.4	222.9	164.4	121.2	92.0	75.2	66.9	65.5
55°	12735.0	8588.5	554.5	320.5	182.5	136.5	96.1	72.5	58.5	51.6	48.8
57.5°	14280.2	9517.8	510.0	268.9	151.9	111.5	76.6	57.1	46.0	39.0	37.6
60°	15700.0	10371.9	458.4	216.0	124.0	87.8	59.9	44.6	36.2	29.3	29.3
62.5°	17220.2	11032.4	387.3	168.6	101.7	66.9	48.8	40.4	29.3	25.1	23.7
65°	18830.8	11522.8	303.7	131.0	79.4	50.2	40.4	41.8	23.7	18.1	16.7
67.5°	20020.8	11425.3	224.3	103.1	61.3	39.0	39.0	44.6	20.9	13.9	12.5
69°	19758.8	10632.5	188.1	89.2	52.9	33.4	36.2	44.6	19.5	12.5	11.1
70°	18999.4	9754.7	165.8	79.4	47.4	30.7	34.8	43.2	18.1	12.5	11.1
72.5°	15822.6	7347.0	129.6	59.9	37.6	25.1	29.3	37.6	18.1	12.5	9.8
75°	11901.8	4702.5	98.9	43.2	27.9	19.5	22.3	27.9	18.1	11.1	9.8
77.5°	6476.2	1695.7	71.1	29.3	19.5	15.3	15.3	20.9	16.7	8.4	5.6
80°	1665.0	426.4	44.6	19.5	15.3	11.1	9.8	13.9	9.8	1.4	0.0
82.5°	411.0	96.1	23.7	13.9	11.1	4.2	4.2	7.0	4.2	0.0	0.0
85°	225.7	47.4	15.3	9.8	5.6	0.0	0.0	1.4	0.0	0.0	0.0
87.5°	115.6	13.9	4.2	2.8	1.4	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

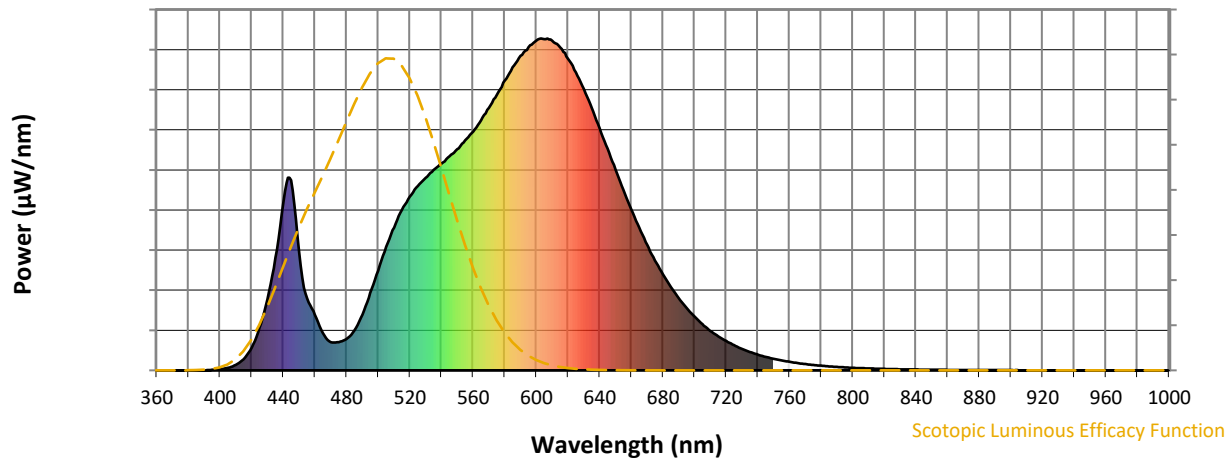


Photopic Lumens: NR

λ (nm)	Power W ^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 ^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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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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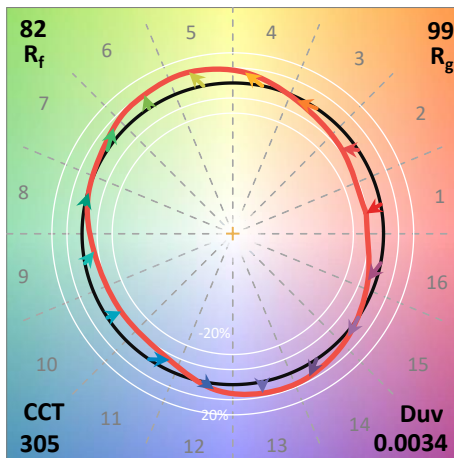
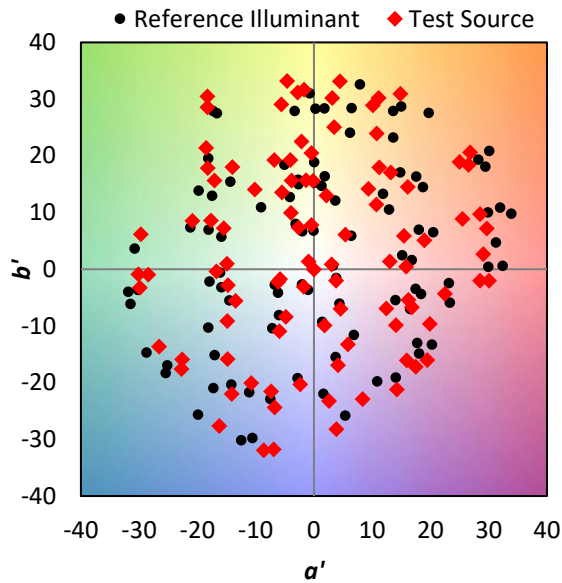
TM-30-18

Summary

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

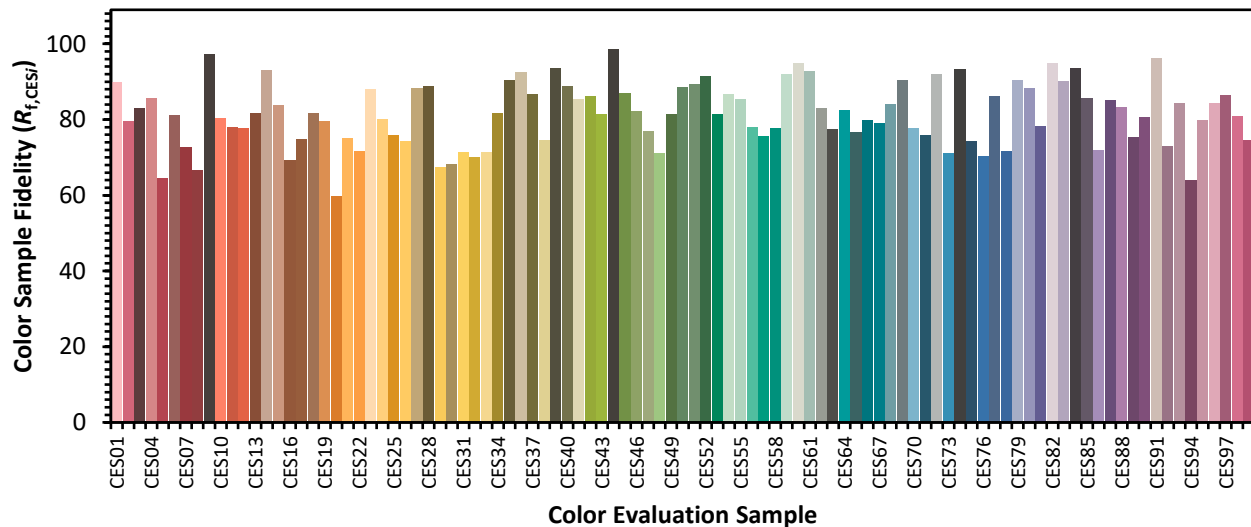


Color Vector Graphics

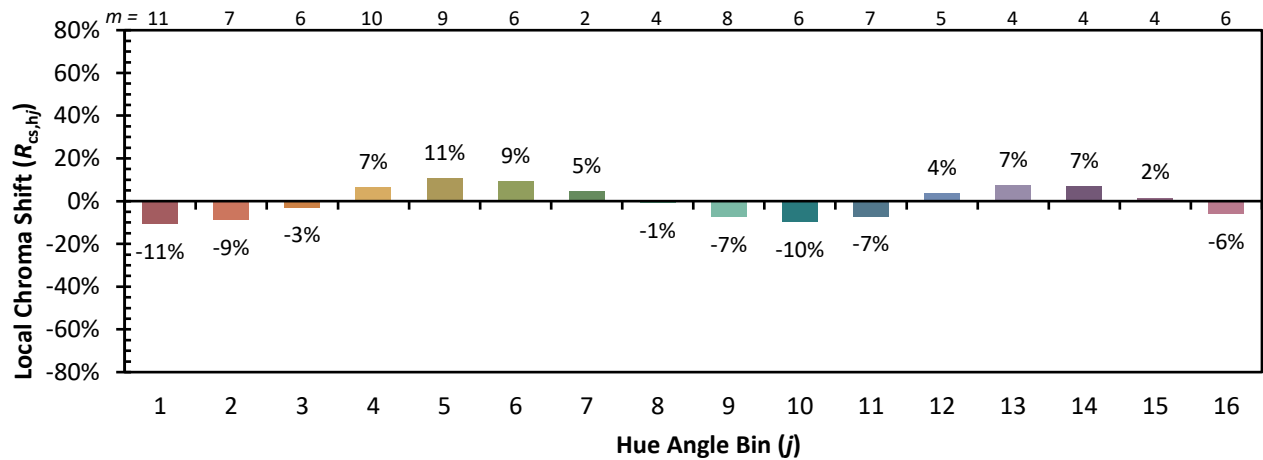


Individual Sample Fidelity Index ($R_{f,i}$)

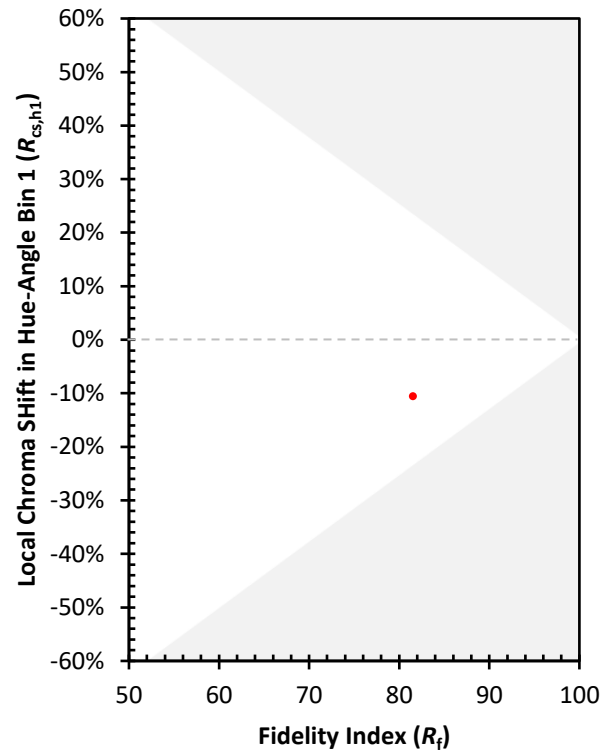
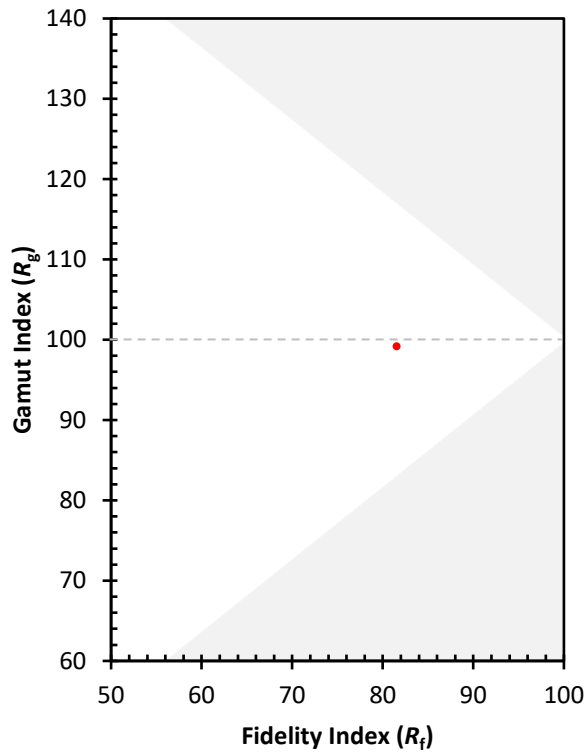
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)