

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: P323031

Luminaire Tested: **GLEON-SA7A-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18984 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

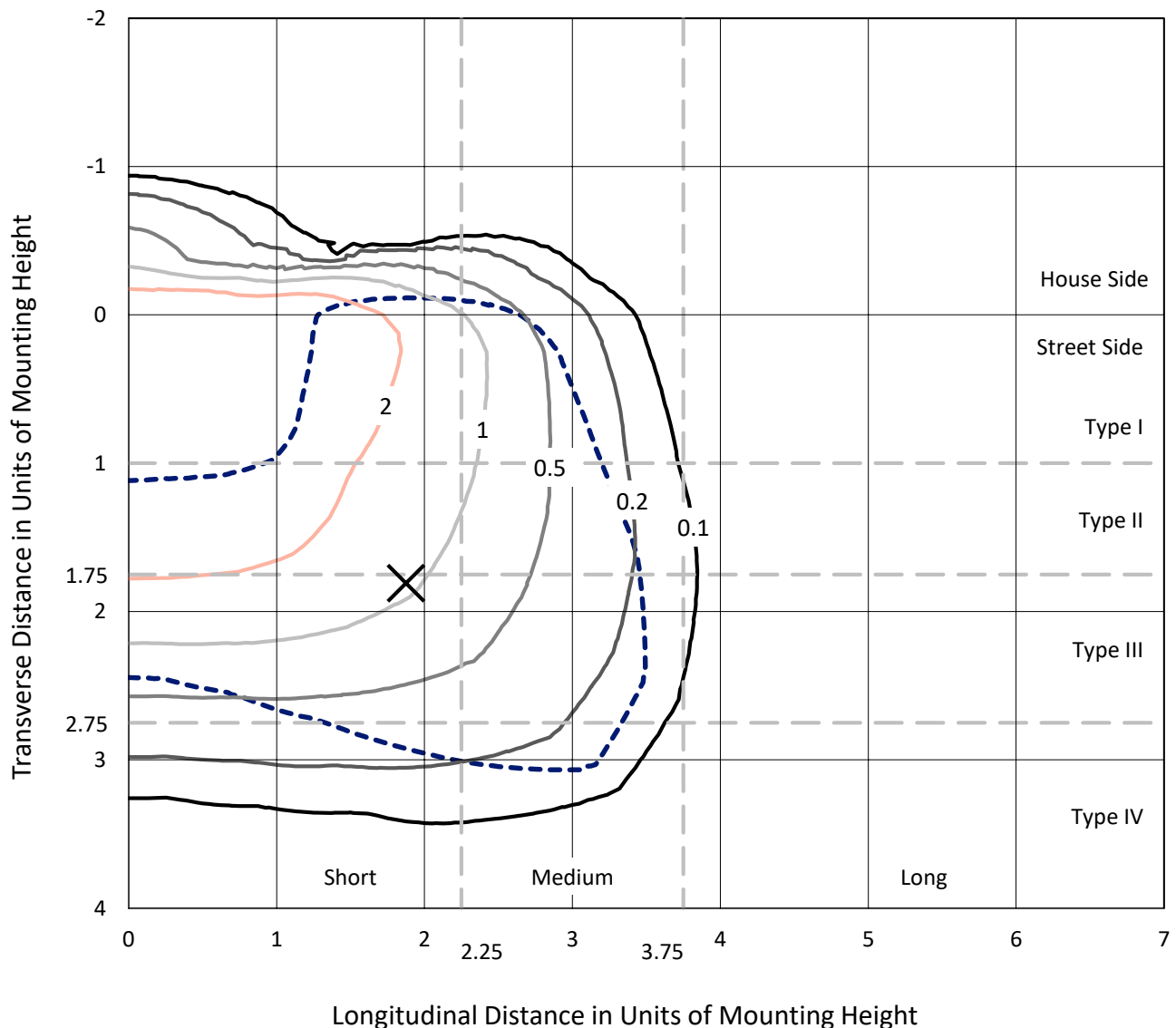
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323031
 CATALOG NUMBER: GLEON-SA7A-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

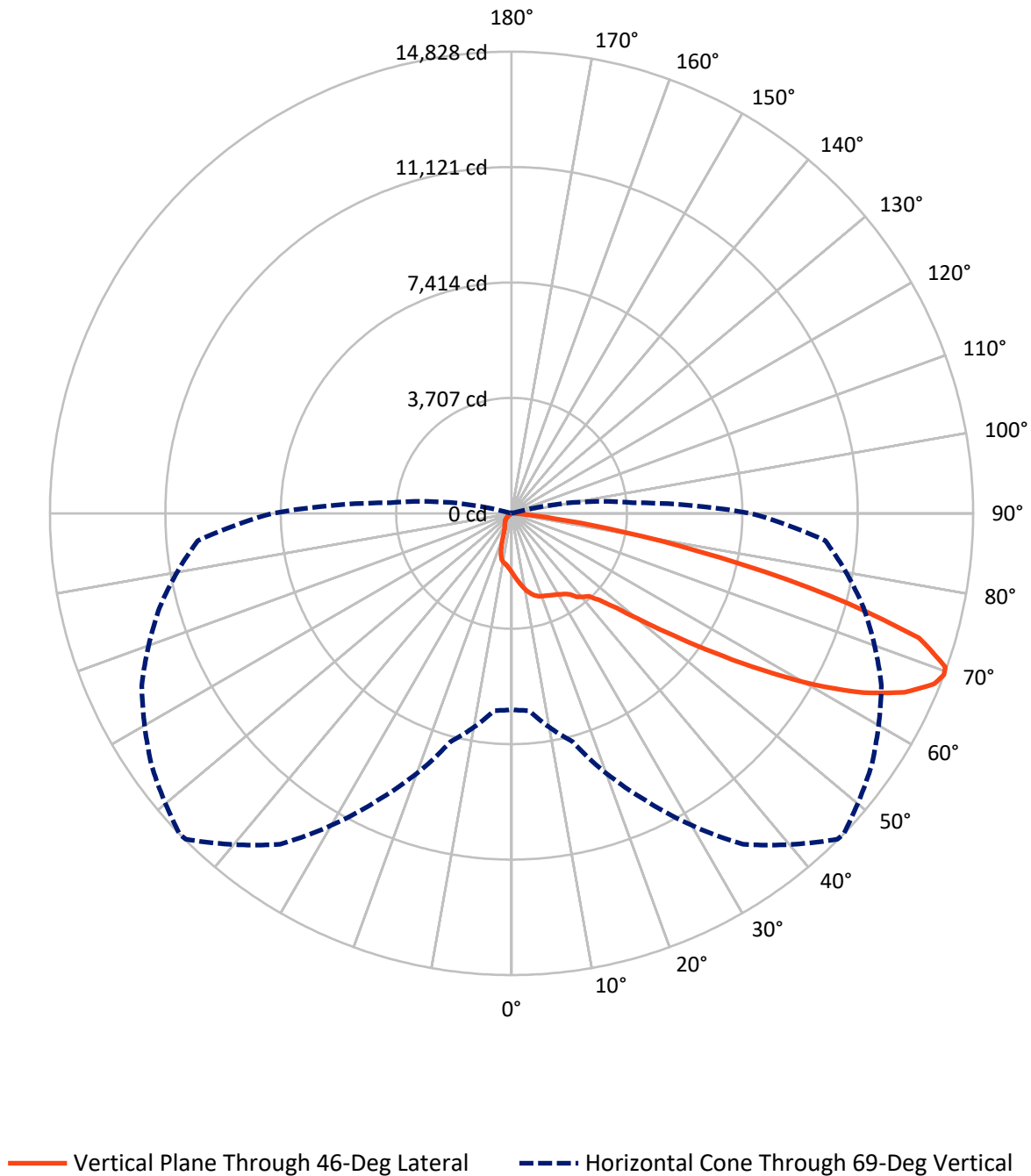
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P323031
CATALOG NUMBER: GLEON-SA7A-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323031
 CATALOG NUMBER: GLEON-SA7A-830-U-T4W-HSS

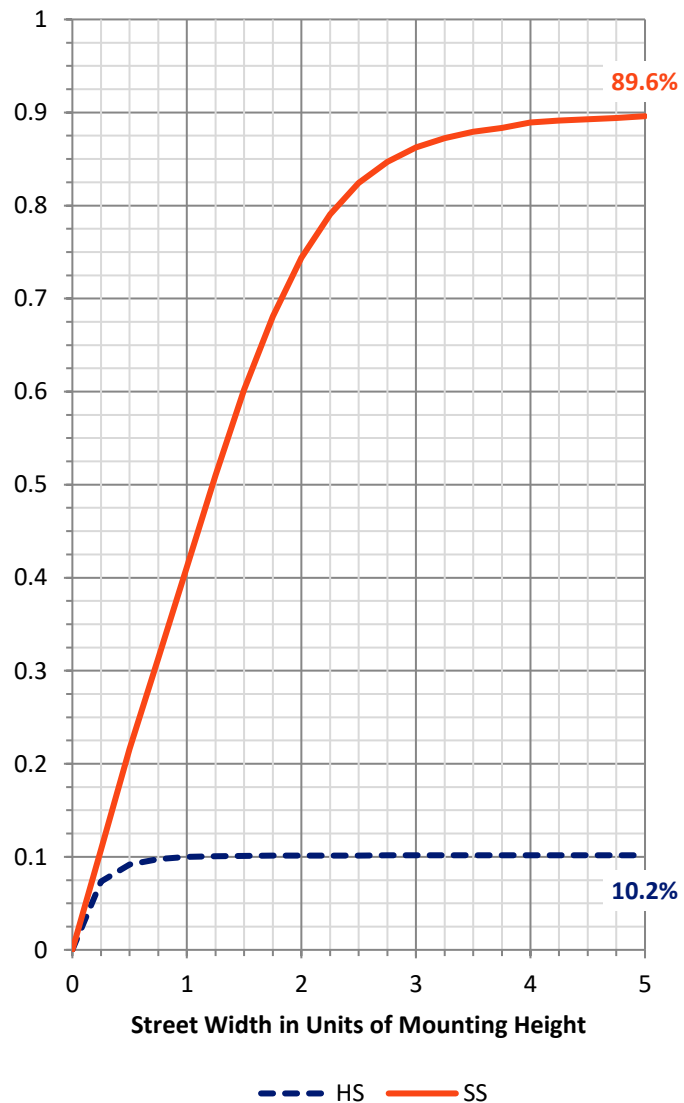
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1948.3	0.0	1948.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17035.7	0.0	17035.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	18984.0	0.0	18984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	1.0
10°-20°	574.4	3.0
20°-30°	903.3	4.8
30°-40°	1295.3	6.8
40°-50°	2238.8	11.8
50°-60°	4423.0	23.3
60°-70°	6181.5	32.6
70°-80°	2986.4	15.7
80°-90°	191.9	1.0
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°	18984.0	100.0
0°-180°	18984.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323031

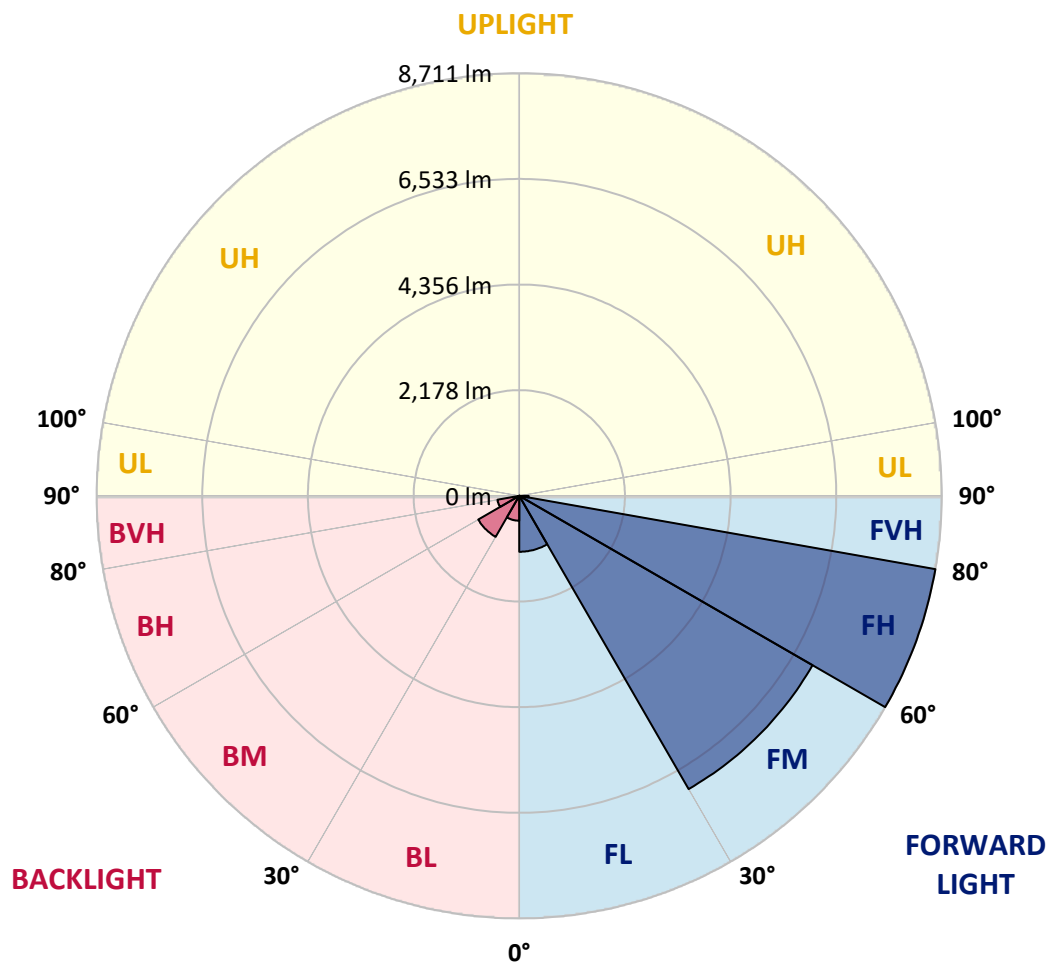
CATALOG NUMBER: GLEON-SA7A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.5	6.1			
FM	(30°-60°)	6980.8	36.8			
FH	(60°-80°)	8711.1	45.9			G4/12000
FVH	(80°-90°)	190.3	1.0			G2/225
BL	(0°-30°)	513.5	2.7	B2/1000		
BM	(30°-60°)	976.3	5.1	B1/1000		
BH	(60°-80°)	456.8	2.4	B1/500		G1/500
BVH	(80°-90°)	1.6	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





REPORT NUMBER: P323031

CATALOG NUMBER: GLEON-SA7A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1
2.5°	2113.1	2110.4	2097.9	2092.6	2062.3	2044.5	2037.4	2015.2	1983.1	1951.1	1915.5
5°	2353.4	2352.5	2329.4	2307.1	2250.2	2196.7	2187.0	2135.3	2063.2	1995.6	1927.9
7.5°	2599.1	2587.5	2564.4	2521.6	2438.9	2353.4	2345.4	2272.4	2170.0	2072.1	1975.1
10°	2807.3	2800.2	2770.0	2705.0	2608.0	2510.9	2501.2	2411.3	2295.5	2175.4	2051.7
12.5°	2969.3	2964.0	2924.0	2843.0	2739.7	2639.1	2625.8	2545.7	2421.9	2287.5	2141.6
15°	3068.1	3065.5	3016.5	2930.2	2828.7	2741.5	2729.9	2659.6	2544.8	2404.1	2239.5
17.5°	3091.3	3092.2	3041.4	2954.2	2870.5	2808.2	2799.3	2745.9	2649.8	2510.1	2337.4
20°	3039.7	3050.3	3004.9	2929.3	2877.7	2844.7	2837.6	2805.6	2724.6	2592.8	2415.7
22.5°	2966.7	2972.0	2940.9	2890.1	2868.8	2875.0	2871.4	2853.6	2785.1	2664.0	2493.1
25°	2922.2	2922.2	2903.5	2860.8	2875.0	2913.3	2914.2	2910.6	2856.3	2751.3	2587.5
27.5°	2920.4	2915.1	2893.7	2861.6	2900.8	2959.6	2963.1	2987.1	2953.3	2857.2	2705.0
30°	2991.6	2985.4	2940.0	2898.1	2948.0	3011.2	3020.1	3072.6	3055.7	2972.0	2835.8
32.5°	3158.0	3135.8	3035.2	2966.7	3004.1	3079.7	3091.3	3175.0	3201.7	3113.5	2962.2
35°	3385.9	3315.6	3170.5	3096.6	3100.2	3179.4	3190.1	3312.9	3392.1	3243.5	3060.1
37.5°	3700.1	3665.4	3429.5	3231.9	3247.9	3368.1	3399.3	3532.8	3510.5	3314.7	3171.4
40°	4389.0	4334.7	4083.7	3611.1	3389.5	3521.2	3531.0	3602.2	3604.0	3475.8	3402.8
42.5°	5327.2	5304.9	5040.6	4299.1	3668.1	3623.6	3641.4	3761.5	3895.9	3815.8	3812.3
45°	6365.9	6354.4	6074.0	5212.4	4231.5	3959.1	3981.4	4142.5	4399.7	4417.5	4530.6
47.5°	7201.7	7196.4	7035.3	6231.5	5094.0	4527.9	4535.0	4705.9	5158.1	5381.5	5562.2
50°	7963.6	7989.5	7862.2	7334.4	6268.9	5418.9	5402.0	5515.9	6242.2	6608.0	6832.3
52.5°	9022.9	9059.4	8702.4	8363.3	7501.7	6524.4	6511.0	6630.3	7545.3	7819.5	7859.5
55°	9958.3	9896.0	9613.9	9516.0	9005.1	7889.8	7886.2	7991.2	8805.7	8922.3	8996.2
57.5°	10371.3	10347.3	10483.5	10707.8	10579.6	9503.5	9495.5	9415.4	9933.4	9945.9	10172.9
60°	10632.1	10661.5	11079.0	11770.6	12090.1	11240.1	11188.5	10699.8	11010.4	10982.8	11225.8
62.5°	10436.3	10494.2	11245.4	12398.1	13220.5	12755.9	12682.9	11876.5	11930.8	11835.5	12061.6
65°	9396.7	9486.6	10717.6	12279.7	13781.3	13940.6	13866.7	12915.2	12661.6	12504.9	12379.4
67.5°	7629.9	7683.3	8968.6	11249.9	13528.5	14647.3	14632.2	13825.8	13213.4	12391.9	11418.1
69°	6305.4	6357.9	7595.2	10165.7	12972.2	14798.7	14828.0	14117.7	13108.4	11704.7	10116.8
70°	5340.5	5396.6	6549.3	9236.5	12326.9	14728.3	14780.9	14090.2	12807.5	10909.0	8974.8
72.5°	2801.1	2849.2	4032.1	6363.3	10049.1	13524.1	13683.4	12899.2	10856.4	7922.7	5306.7
75°	880.3	907.9	1574.6	3326.3	6880.4	10515.5	10552.0	10118.6	7709.1	4357.9	2210.1
77.5°	335.6	327.6	524.3	1225.7	3478.5	6621.4	6844.8	6323.2	4045.5	1540.7	510.0
80°	180.7	181.6	272.4	507.4	1488.2	3402.8	3591.5	3064.6	1437.5	480.6	117.5
82.5°	78.3	81.9	153.1	268.8	683.6	1255.0	1349.4	1123.3	549.2	323.1	43.6
85°	16.9	18.7	73.9	146.0	278.6	352.5	369.4	364.0	349.8	251.0	16.9
87.5°	0.0	0.0	32.9	52.5	70.3	80.1	70.3	91.7	193.1	169.1	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323031

CATALOG NUMBER: GLEON-SA7A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1	1902.1
2.5°	1903.9	1887.9	1860.3	1830.0	1808.7	1786.4	1768.6	1760.6	1751.7	1745.5	1753.5
5°	1900.3	1869.2	1815.8	1764.2	1726.8	1696.5	1671.6	1661.8	1652.0	1644.9	1644.0
7.5°	1931.5	1887.9	1806.0	1730.3	1672.5	1631.5	1597.7	1583.5	1571.9	1566.6	1562.1
10°	1991.1	1935.1	1825.6	1726.8	1652.0	1582.6	1509.6	1453.5	1417.0	1400.1	1393.9
12.5°	2068.6	1998.3	1863.0	1745.5	1636.9	1503.4	1348.5	1215.0	1128.6	1100.2	1083.2
15°	2159.4	2072.1	1911.9	1769.5	1581.7	1337.8	1075.2	900.8	820.7	804.6	786.8
17.5°	2246.6	2150.5	1970.7	1774.0	1460.6	1069.0	787.7	669.3	638.2	648.9	651.5
20°	2323.1	2227.9	2028.5	1734.8	1240.8	802.0	609.7	580.3	591.9	612.4	615.9
22.5°	2400.6	2302.7	2081.9	1631.5	959.5	608.8	549.2	556.3	567.9	588.4	591.9
25°	2494.9	2393.5	2131.8	1441.9	720.1	518.0	521.6	532.3	543.8	562.5	564.3
27.5°	2603.5	2508.3	2164.7	1195.4	534.1	476.2	487.8	503.8	515.4	533.2	536.7
30°	2747.7	2659.6	2175.4	939.9	447.7	438.8	444.2	463.7	480.6	496.7	499.3
32.5°	2883.0	2809.1	2139.8	709.4	414.8	404.1	404.1	415.7	435.3	450.4	453.9
35°	3007.6	2959.6	2025.8	518.9	389.9	372.1	363.2	363.2	375.6	388.1	391.6
37.5°	3172.3	3170.5	1841.6	413.9	365.8	345.4	326.7	312.4	308.0	310.6	312.4
40°	3454.4	3457.1	1601.3	371.2	345.4	317.8	289.3	263.5	239.4	231.4	230.5
42.5°	3895.0	3855.0	1349.4	350.7	327.6	289.3	246.6	211.8	174.5	162.9	162.0
45°	4594.7	4357.0	1082.4	332.0	308.9	257.2	203.8	156.7	126.4	117.5	117.5
47.5°	5613.8	5016.6	838.5	311.5	283.9	220.7	154.0	113.0	92.6	88.1	89.0
50°	6667.7	5662.8	642.6	285.7	253.7	182.5	113.9	81.9	70.3	70.3	71.2
52.5°	7602.3	6136.3	501.1	258.1	216.3	143.3	86.3	64.1	58.7	57.9	58.7
55°	8477.2	6441.6	383.6	226.1	171.8	106.8	65.9	52.5	49.0	47.2	46.3
57.5°	9321.0	6592.9	287.5	182.5	124.6	77.4	52.5	44.5	40.9	38.3	37.4
60°	9882.7	6470.1	197.6	134.4	86.3	56.1	43.6	38.3	33.8	31.2	30.3
62.5°	10199.6	6134.5	127.3	97.0	61.4	41.8	34.7	32.0	25.8	23.1	23.1
65°	10071.4	5580.9	89.0	69.4	44.5	31.2	25.8	25.8	18.7	15.1	14.2
67.5°	8924.9	4714.8	67.6	51.6	32.0	23.1	19.6	22.3	11.6	7.1	7.1
69°	7678.8	3907.5	57.9	42.7	26.7	18.7	16.9	20.5	8.0	5.3	4.5
70°	6673.9	3370.8	52.5	37.4	22.3	16.0	15.1	19.6	8.0	4.5	3.6
72.5°	3993.0	1879.9	40.1	26.7	14.2	12.5	12.5	22.3	8.0	4.5	3.6
75°	1613.7	662.2	29.4	18.7	10.7	10.7	15.1	28.5	7.1	3.6	2.7
77.5°	365.8	145.1	16.9	11.6	7.1	10.7	17.8	22.3	4.5	1.8	0.0
80°	89.0	35.6	10.7	7.1	4.5	8.0	13.4	12.5	0.9	0.0	0.0
82.5°	29.4	12.5	4.5	3.6	0.9	2.7	6.2	3.6	0.0	0.0	0.0
85°	12.5	7.1	1.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.0	2.7	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

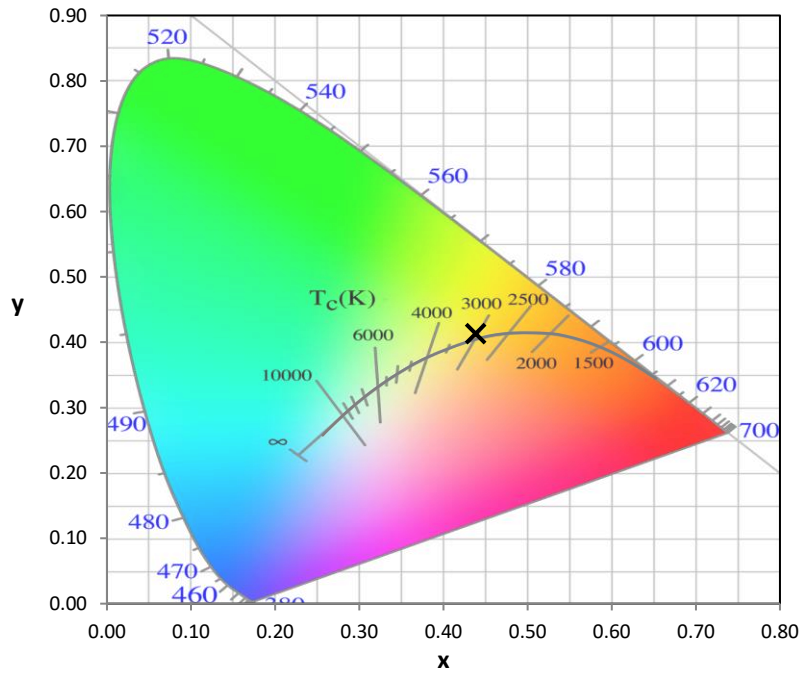
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

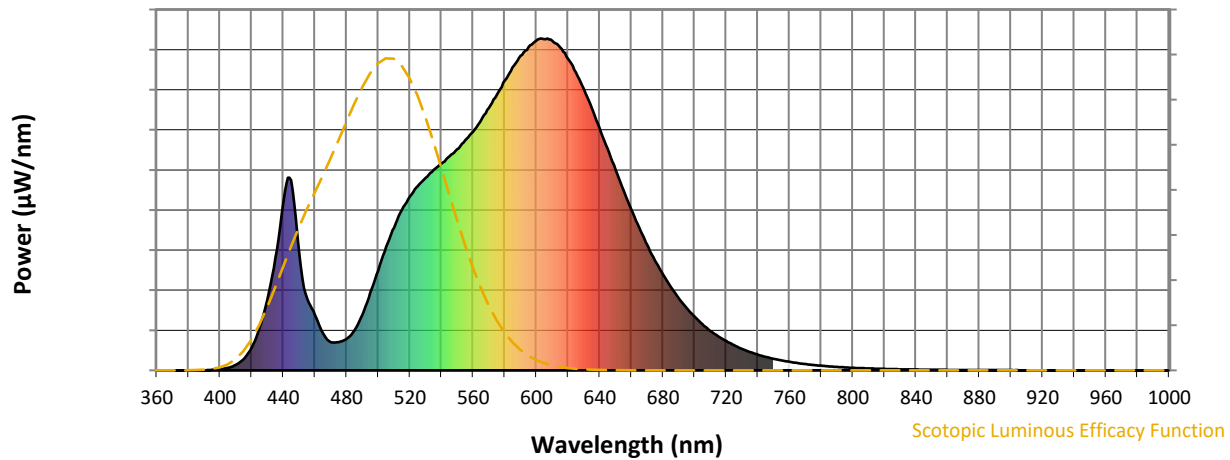


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



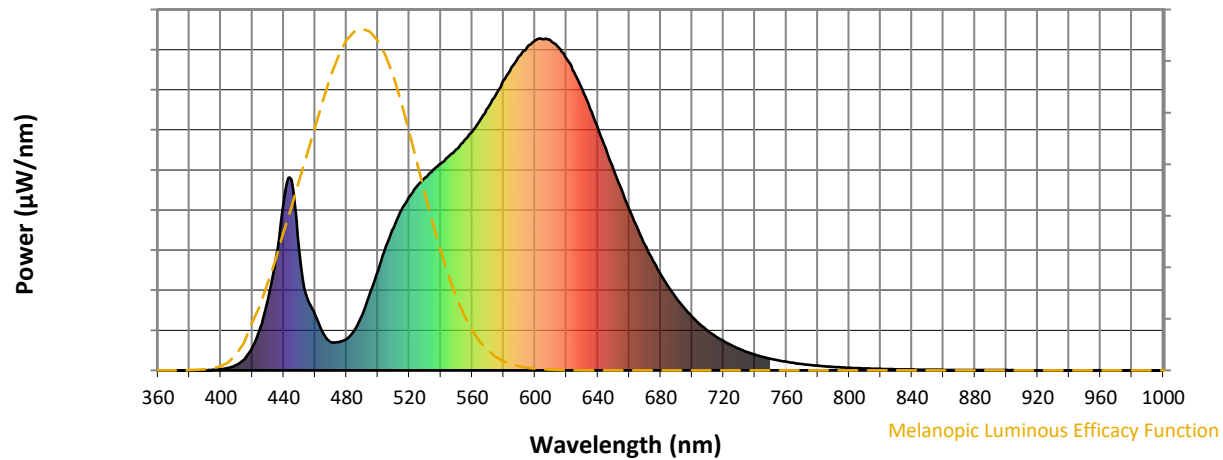
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

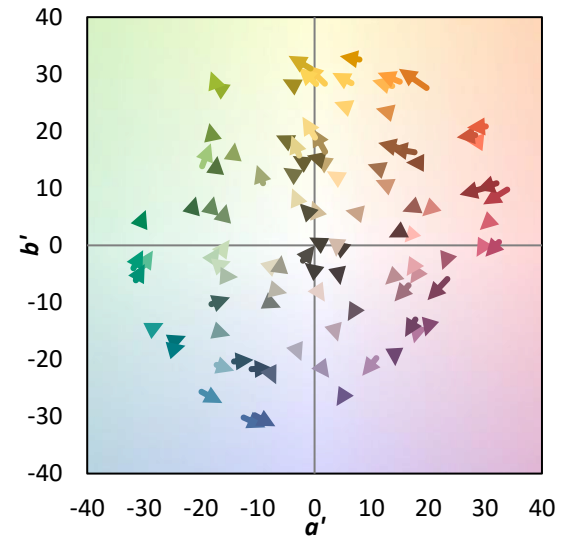
TM-30-18

Summary

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

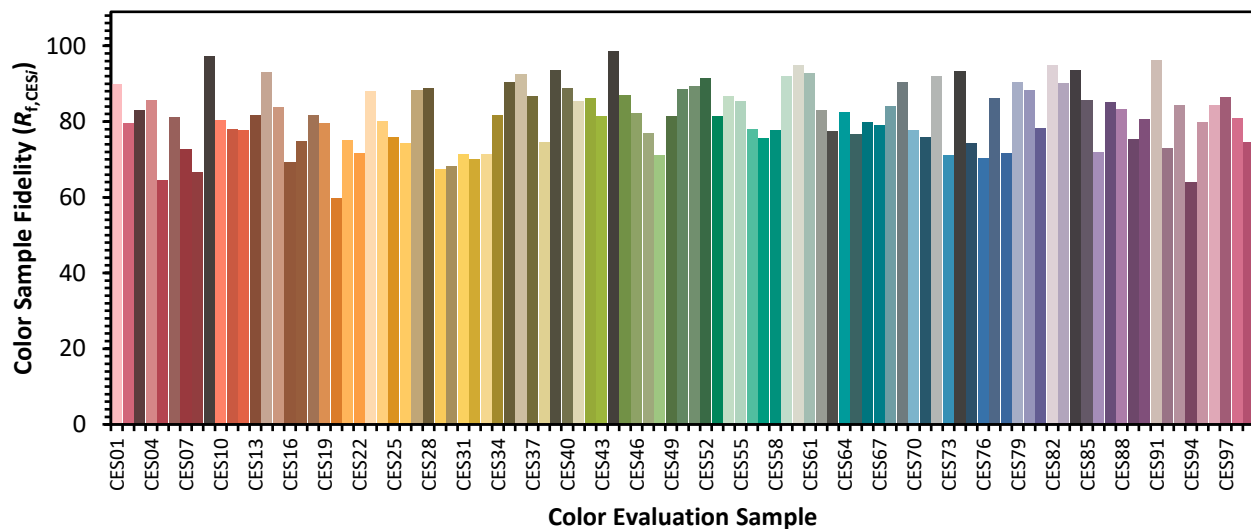


Color Vector Graphics

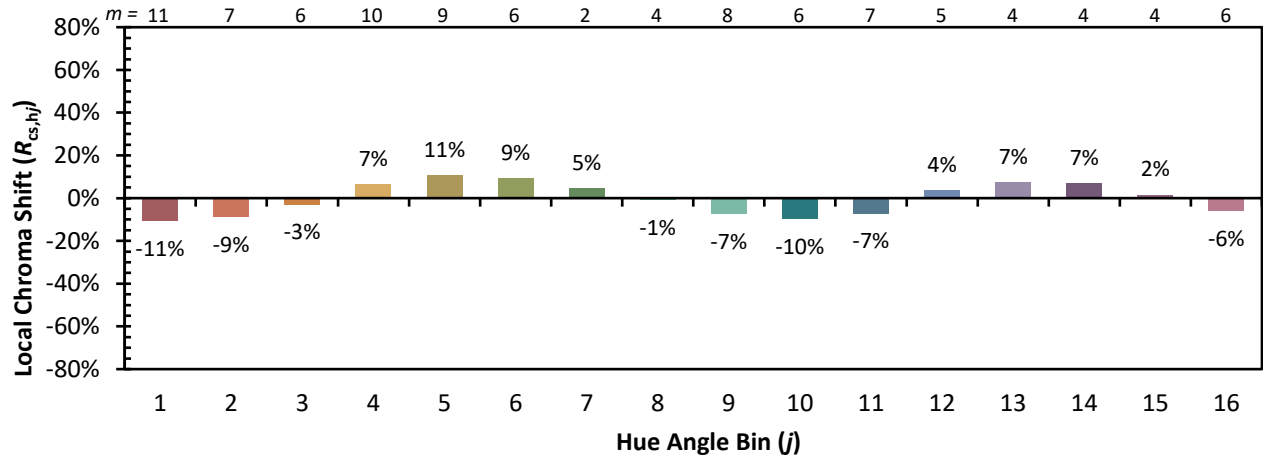


Individual Sample Fidelity Index ($R_{f,i}$)

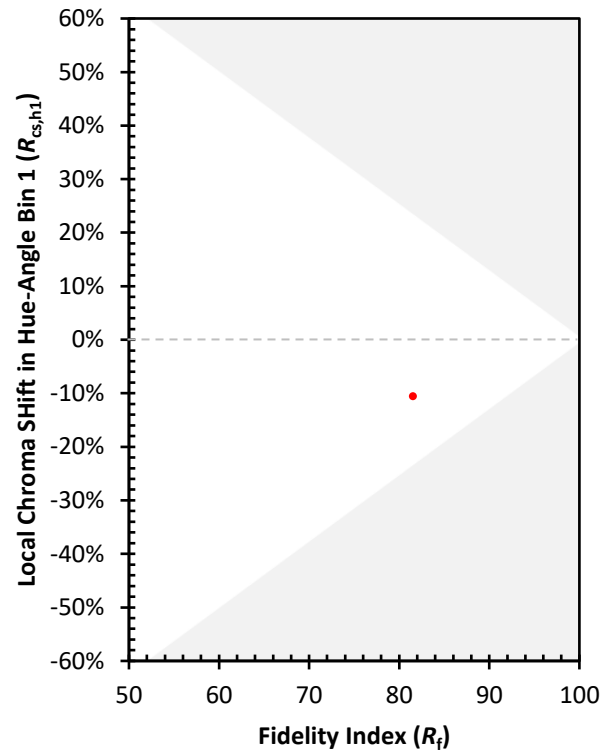
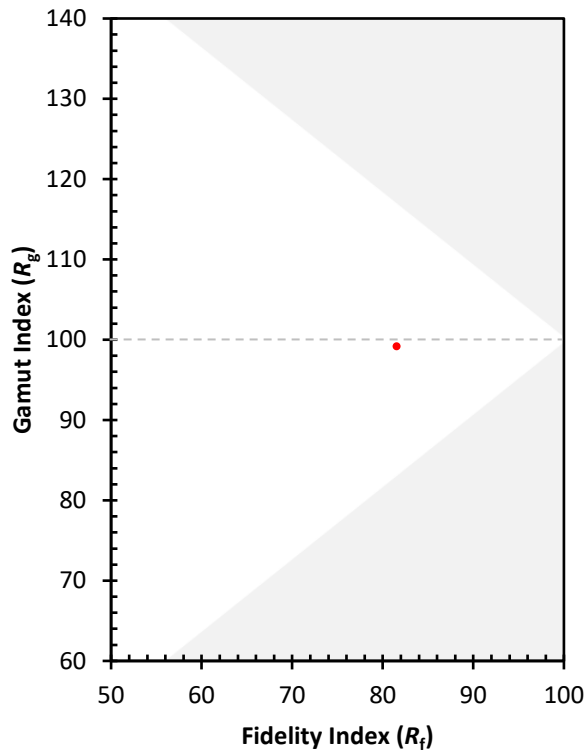
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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