

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: P323039

Luminaire Tested: **GLEON-SA5B-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323039
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-SA5B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 16451 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

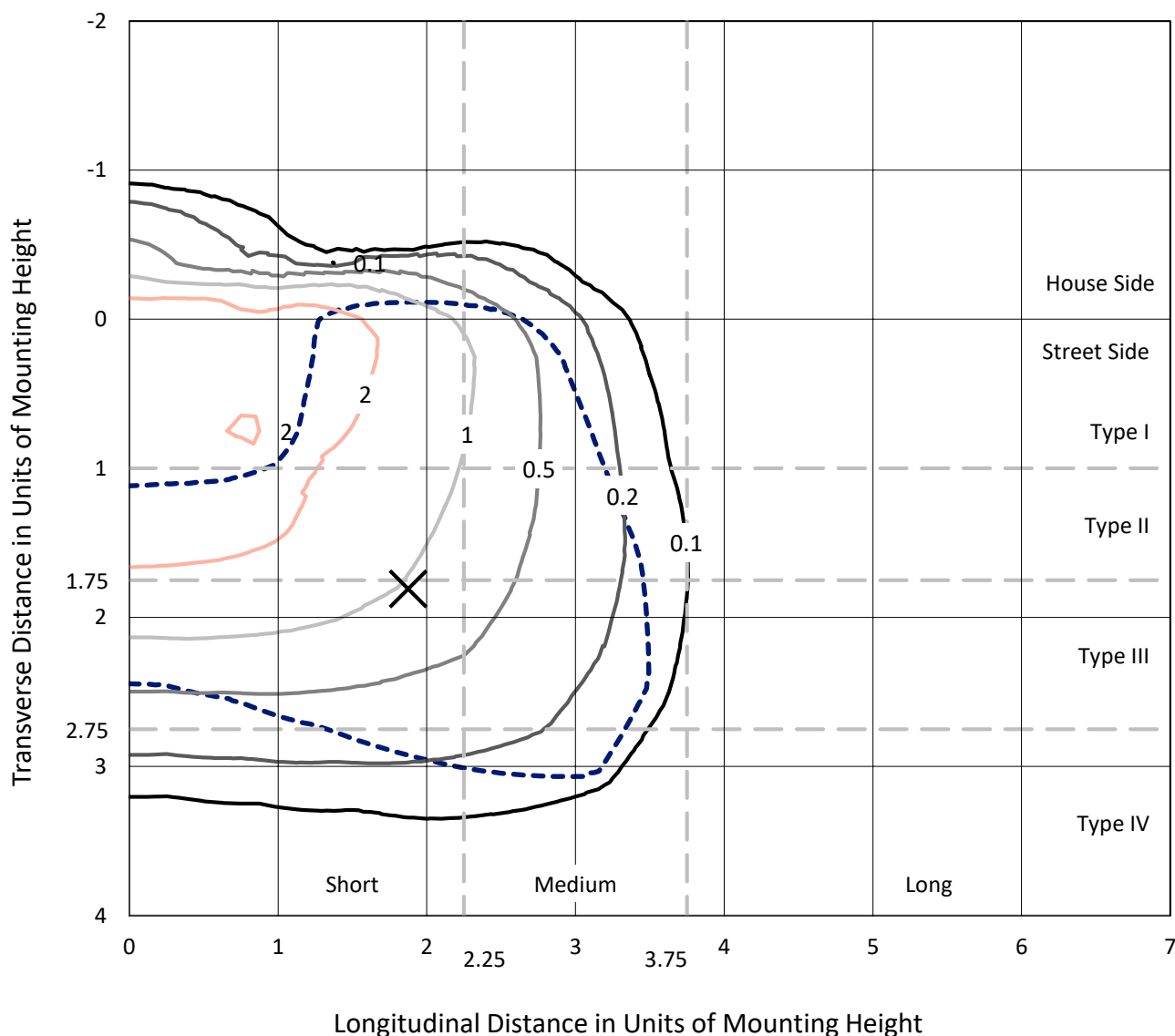
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

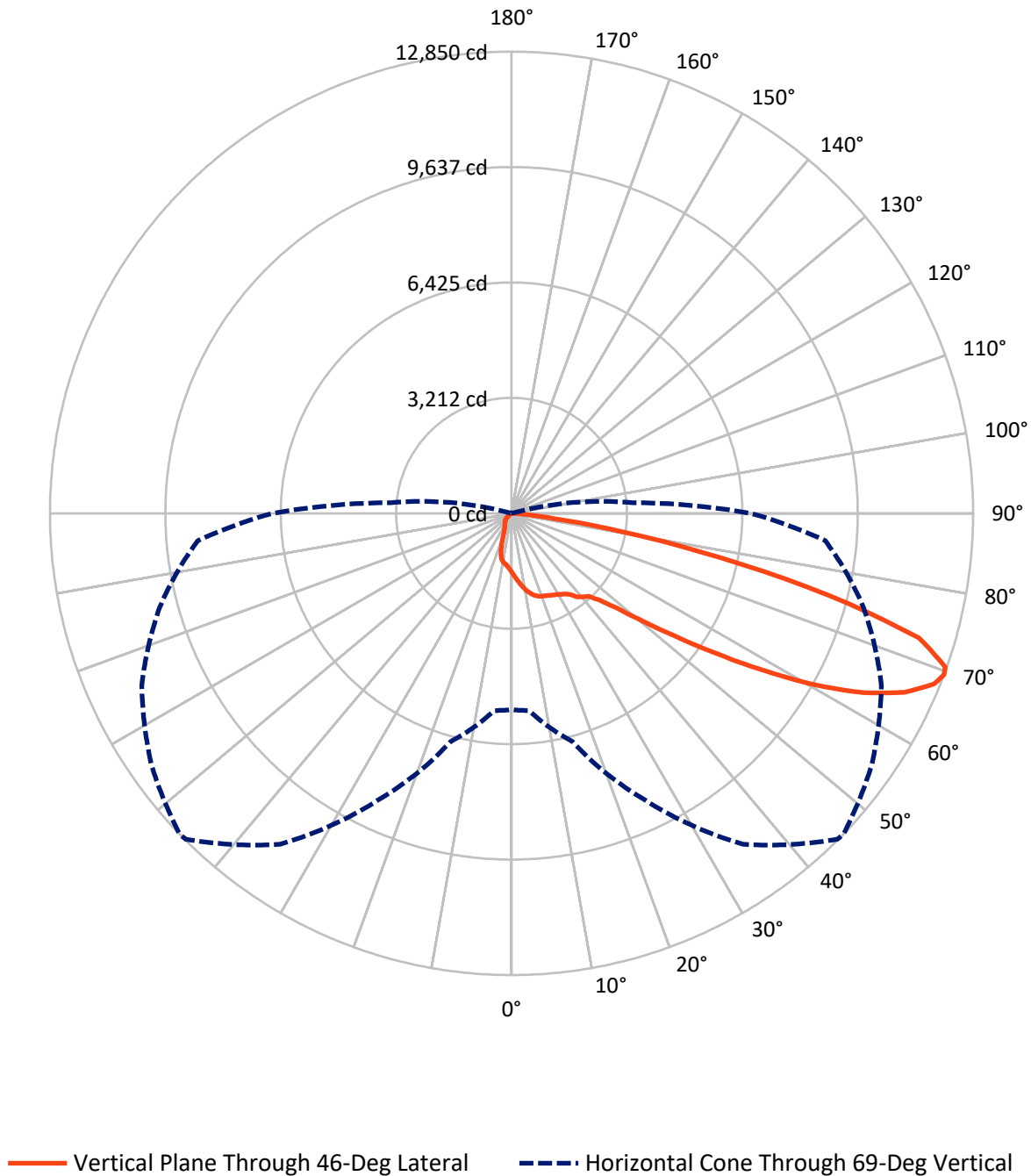
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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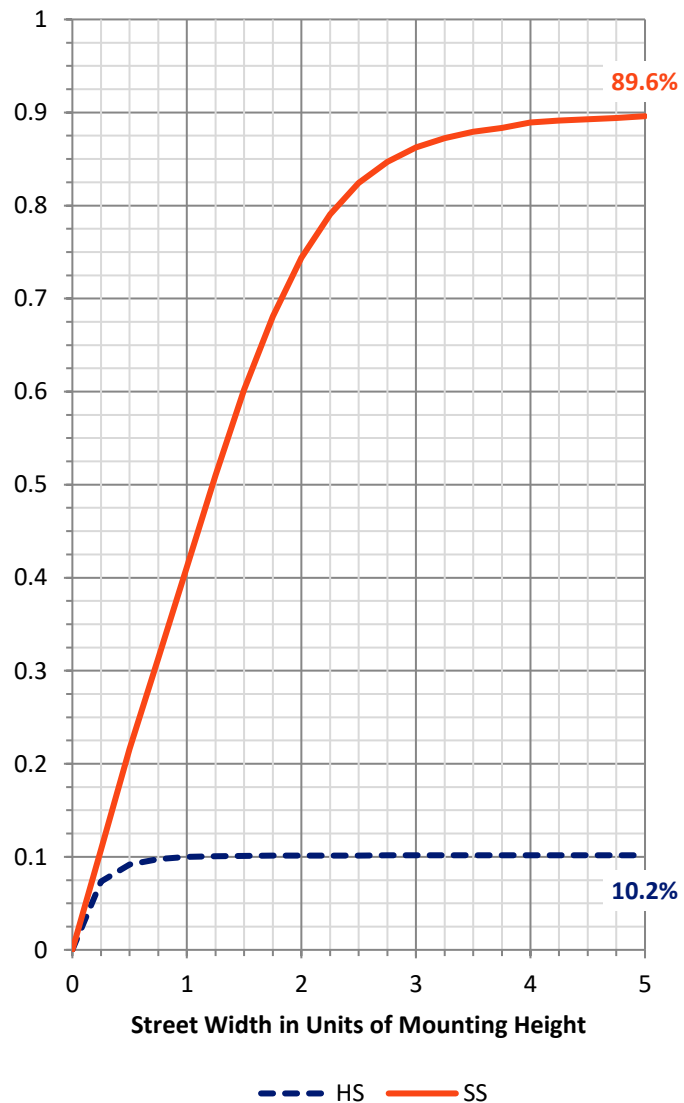
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.3	0.0	1688.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14762.7	0.0	14762.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	16451.0	0.0	16451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	1.0
10°-20°	497.7	3.0
20°-30°	782.8	4.8
30°-40°	1122.5	6.8
40°-50°	1940.1	11.8
50°-60°	3832.8	23.3
60°-70°	5356.7	32.6
70°-80°	2587.9	15.7
80°-90°	166.3	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°	16451.0	100.0
0°-180°	16451.0	100.0

Coefficient of Utilization



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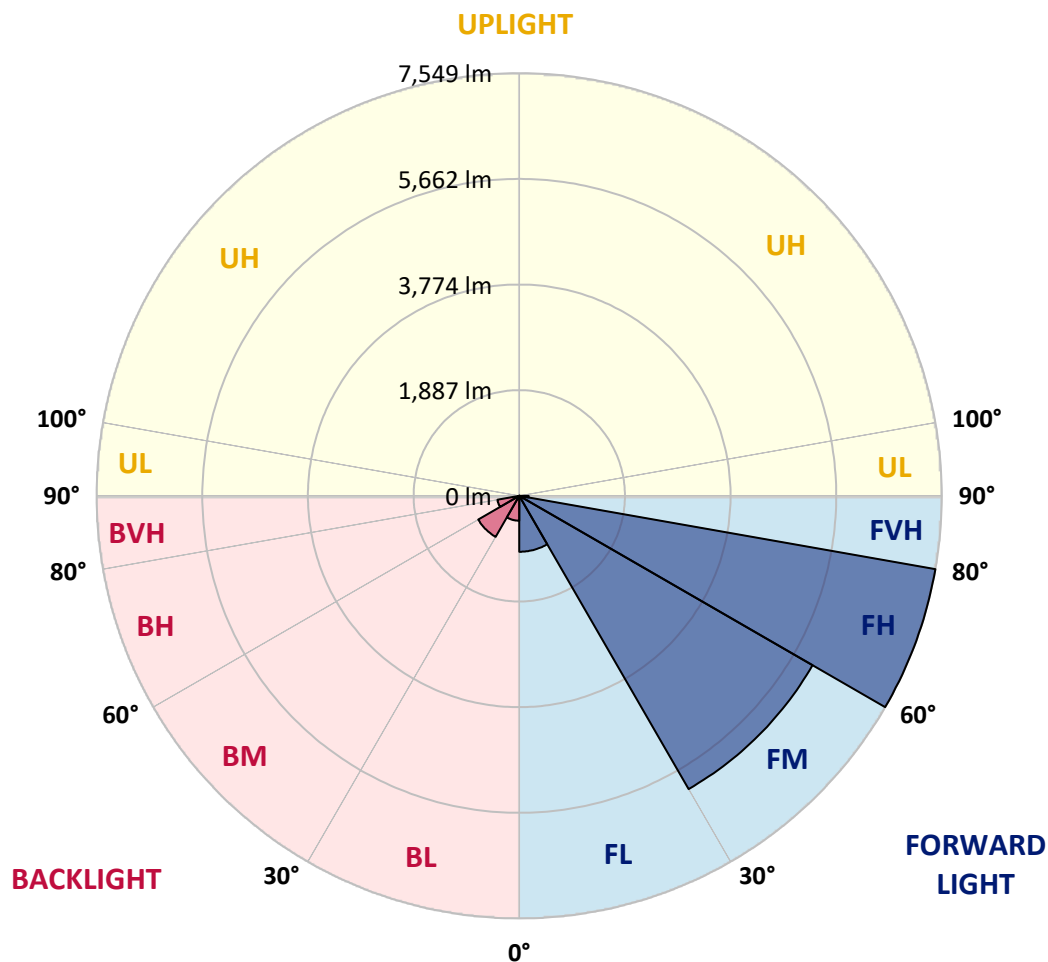
CATALOG NUMBER: GLEON-SA5B-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	999.6	6.1			
FM	(30°-60°)	6049.4	36.8			
FH	(60°-80°)	7548.8	45.9			G4/12000
FVH	(80°-90°)	164.9	1.0			G2/225
BL	(0°-30°)	445.0	2.7	B1/500		
BM	(30°-60°)	846.1	5.1	B1/1000		
BH	(60°-80°)	395.9	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3
2.5°	1831.1	1828.8	1818.0	1813.4	1787.2	1771.7	1765.6	1746.3	1718.5	1690.8	1659.9
5°	2039.4	2038.6	2018.6	1999.3	1949.9	1903.6	1895.2	1850.4	1787.9	1729.3	1670.7
7.5°	2252.3	2242.3	2222.2	2185.2	2113.4	2039.4	2032.5	1969.2	1880.5	1795.7	1711.6
10°	2432.8	2426.6	2400.4	2344.1	2260.0	2175.9	2167.4	2089.5	1989.3	1885.1	1777.9
12.5°	2573.2	2568.5	2533.8	2463.6	2374.1	2287.0	2275.4	2206.0	2098.8	1982.3	1855.8
15°	2658.8	2656.5	2614.0	2539.2	2451.3	2375.7	2365.7	2304.7	2205.2	2083.4	1940.7
17.5°	2678.8	2679.6	2635.6	2560.0	2487.5	2433.5	2425.8	2379.5	2296.2	2175.1	2025.5
20°	2634.1	2643.3	2604.0	2538.4	2493.7	2465.2	2459.0	2431.2	2361.0	2246.9	2093.4
22.5°	2570.8	2575.5	2548.5	2504.5	2486.0	2491.4	2488.3	2472.9	2413.5	2308.6	2160.5
25°	2532.3	2532.3	2516.1	2479.0	2491.4	2524.6	2525.3	2522.2	2475.2	2384.2	2242.3
27.5°	2530.7	2526.1	2507.6	2479.8	2513.8	2564.7	2567.8	2588.6	2559.3	2476.0	2344.1
30°	2592.4	2587.0	2547.7	2511.4	2554.6	2609.4	2617.1	2662.6	2648.0	2575.5	2457.5
32.5°	2736.7	2717.4	2630.2	2570.8	2603.2	2668.8	2678.8	2751.3	2774.5	2698.1	2567.0
35°	2934.1	2873.2	2747.5	2683.5	2686.5	2755.2	2764.4	2870.9	2939.5	2810.7	2651.8
37.5°	3206.4	3176.3	2971.9	2800.7	2814.6	2918.7	2945.7	3061.4	3042.1	2872.4	2748.2
40°	3803.4	3756.4	3538.9	3129.3	2937.2	3051.4	3059.9	3121.6	3123.1	3012.0	2948.8
42.5°	4616.4	4597.1	4368.0	3725.5	3178.6	3140.1	3155.5	3259.6	3376.1	3306.7	3303.6
45°	5516.5	5506.5	5263.5	4516.9	3666.9	3430.9	3450.2	3589.8	3812.7	3828.1	3926.1
47.5°	6240.8	6236.2	6096.6	5400.1	4414.3	3923.7	3929.9	4078.0	4469.8	4663.5	4820.0
50°	6901.1	6923.4	6813.1	6355.7	5432.5	4695.8	4681.2	4779.9	5409.3	5726.3	5920.7
52.5°	7819.0	7850.6	7541.3	7247.4	6500.8	5653.8	5642.3	5745.6	6538.6	6776.1	6810.8
55°	8629.6	8575.6	8331.1	8246.3	7803.5	6837.1	6834.0	6925.0	7630.8	7731.8	7795.8
57.5°	8987.5	8966.7	9084.7	9279.1	9168.0	8235.5	8228.5	8159.1	8608.0	8618.8	8815.5
60°	9213.5	9239.0	9600.7	10200.0	10477.0	9740.3	9695.6	9272.1	9541.3	9517.4	9728.0
62.5°	9043.8	9094.0	9745.0	10743.8	11456.5	11053.9	10990.7	10291.8	10338.9	10256.4	10452.3
65°	8142.9	8220.8	9287.6	10641.2	11942.5	12080.5	12016.5	11192.0	10972.1	10836.4	10727.6
67.5°	6611.8	6658.1	7771.9	9748.8	11723.4	12693.0	12679.9	11981.0	11450.4	10738.4	9894.6
69°	5464.1	5509.6	6581.7	8809.3	11241.3	12824.1	12849.6	12234.0	11359.4	10143.0	8766.9
70°	4628.0	4676.6	5675.4	8004.1	10682.1	12763.2	12808.7	12210.1	11098.6	9453.4	7777.3
72.5°	2427.4	2469.0	3494.1	5514.2	8708.3	11719.6	11857.6	11178.1	9407.9	6865.6	4598.7
75°	762.8	786.8	1364.5	2882.5	5962.4	9112.5	9144.1	8768.5	6680.5	3776.4	1915.2
77.5°	290.8	283.8	454.3	1062.1	3014.4	5737.9	5931.5	5479.5	3505.7	1335.2	442.0
80°	156.6	157.4	236.0	439.7	1289.7	2948.8	3112.3	2655.7	1245.7	416.5	101.8
82.5°	67.9	71.0	132.7	232.9	592.4	1087.6	1169.3	973.4	475.9	280.0	37.8
85°	14.7	16.2	64.0	126.5	241.4	305.4	320.1	315.5	303.1	217.5	14.7
87.5°	0.0	0.0	28.5	45.5	60.9	69.4	60.9	79.4	167.4	146.6	7.7
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°	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3
2.5°	1649.9	1636.0	1612.1	1585.9	1567.3	1548.1	1532.6	1525.7	1518.0	1512.6	1519.5
5°	1646.8	1619.8	1573.5	1528.8	1496.4	1470.2	1448.6	1440.1	1431.6	1425.4	1424.6
7.5°	1673.8	1636.0	1565.0	1499.5	1449.3	1413.8	1384.5	1372.2	1362.2	1357.5	1353.7
10°	1725.5	1676.9	1582.0	1496.4	1431.6	1371.4	1308.2	1259.6	1228.0	1213.3	1207.9
12.5°	1792.6	1731.6	1614.4	1512.6	1418.5	1302.8	1168.6	1052.9	978.0	953.4	938.7
15°	1871.2	1795.7	1656.8	1533.4	1370.7	1159.3	931.8	780.6	711.2	697.3	681.9
17.5°	1946.8	1863.5	1707.7	1537.3	1265.7	926.4	682.6	580.0	553.0	562.3	564.6
20°	2013.2	1930.6	1757.9	1503.3	1075.2	695.0	528.4	502.9	512.9	530.7	533.8
22.5°	2080.3	1995.4	1804.1	1413.8	831.5	527.6	475.9	482.1	492.1	509.8	512.9
25°	2162.0	2074.1	1847.3	1249.6	624.0	448.9	452.0	461.3	471.3	487.5	489.0
27.5°	2256.1	2173.6	1875.9	1035.9	462.8	412.7	422.7	436.6	446.6	462.0	465.1
30°	2381.1	2304.7	1885.1	814.5	388.0	380.3	384.9	401.9	416.5	430.4	432.7
32.5°	2498.3	2434.3	1854.3	614.7	359.4	350.2	350.2	360.2	377.2	390.3	393.4
35°	2606.3	2564.7	1755.5	449.7	337.8	322.4	314.7	314.7	325.5	336.3	339.4
37.5°	2749.0	2747.5	1595.9	358.7	317.0	299.3	283.1	270.7	266.9	269.2	270.7
40°	2993.5	2995.8	1387.6	321.6	299.3	275.4	250.7	228.3	207.5	200.5	199.8
42.5°	3375.3	3340.6	1169.3	303.9	283.8	250.7	213.7	183.6	151.2	141.2	140.4
45°	3981.6	3775.7	937.9	287.7	267.7	222.9	176.6	135.8	109.5	101.8	101.8
47.5°	4864.8	4347.2	726.6	270.0	246.1	191.3	133.4	98.0	80.2	76.4	77.1
50°	5778.0	4907.2	556.9	247.6	219.8	158.1	98.7	71.0	60.9	60.9	61.7
52.5°	6587.9	5317.5	434.3	223.7	187.4	124.2	74.8	55.5	50.9	50.1	50.9
55°	7346.1	5582.1	332.4	195.9	148.9	92.6	57.1	45.5	42.4	40.9	40.1
57.5°	8077.4	5713.2	249.1	158.1	108.0	67.1	45.5	38.6	35.5	33.2	32.4
60°	8564.1	5606.8	171.2	116.5	74.8	48.6	37.8	33.2	29.3	27.0	26.2
62.5°	8838.7	5316.0	110.3	84.1	53.2	36.3	30.1	27.8	22.4	20.1	20.1
65°	8727.6	4836.2	77.1	60.2	38.6	27.0	22.4	22.4	16.2	13.1	12.3
67.5°	7734.1	4085.7	58.6	44.7	27.8	20.1	17.0	19.3	10.0	6.2	6.2
69°	6654.2	3386.1	50.1	37.0	23.1	16.2	14.7	17.7	6.9	4.6	3.9
70°	5783.4	2921.0	45.5	32.4	19.3	13.9	13.1	17.0	6.9	3.9	3.1
72.5°	3460.2	1629.0	34.7	23.1	12.3	10.8	10.8	19.3	6.9	3.9	3.1
75°	1398.4	573.9	25.5	16.2	9.3	9.3	13.1	24.7	6.2	3.1	2.3
77.5°	317.0	125.7	14.7	10.0	6.2	9.3	15.4	19.3	3.9	1.5	0.0
80°	77.1	30.9	9.3	6.2	3.9	6.9	11.6	10.8	0.8	0.0	0.0
82.5°	25.5	10.8	3.9	3.1	0.8	2.3	5.4	3.1	0.0	0.0	0.0
85°	10.8	6.2	1.5	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	6.9	2.3	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

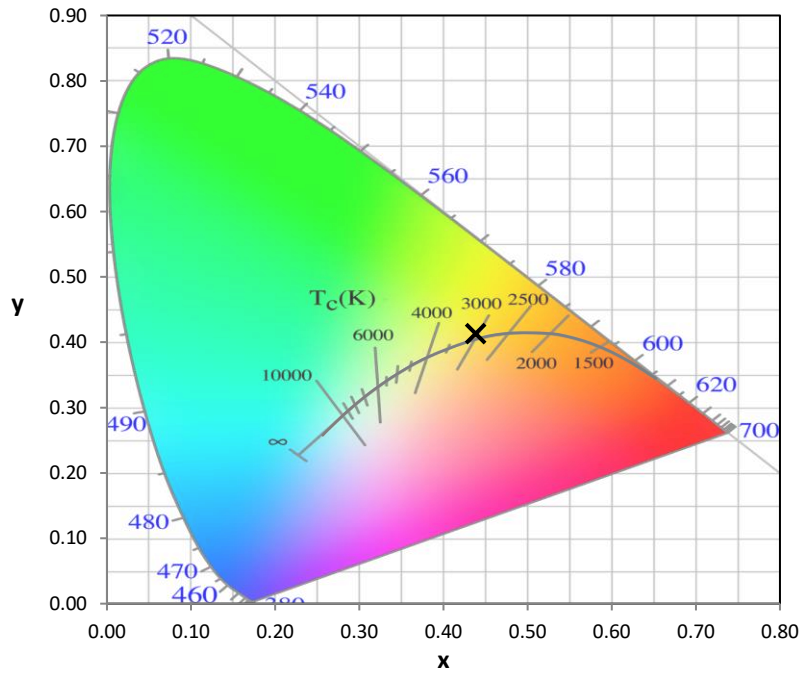
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

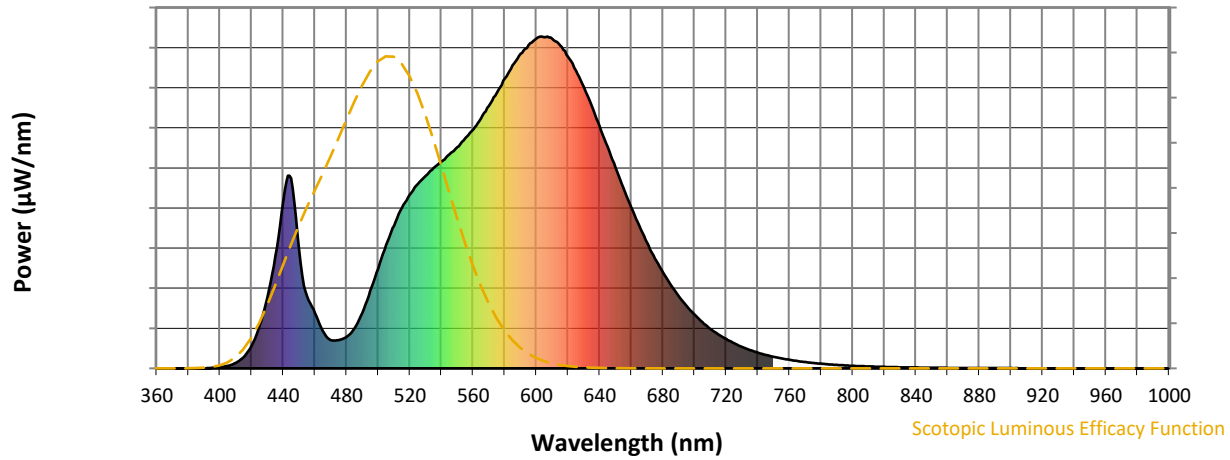


Photopic Lumens: NR

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



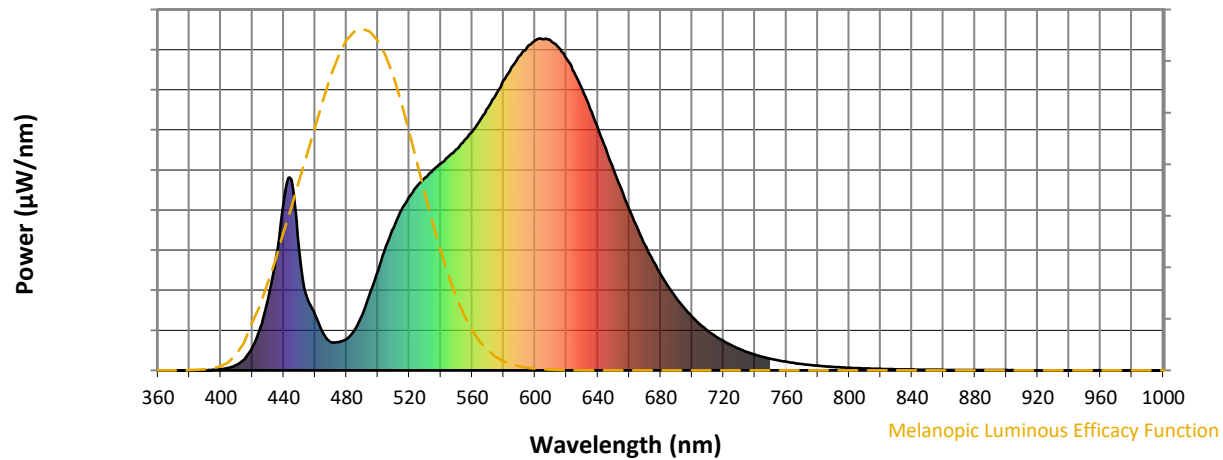
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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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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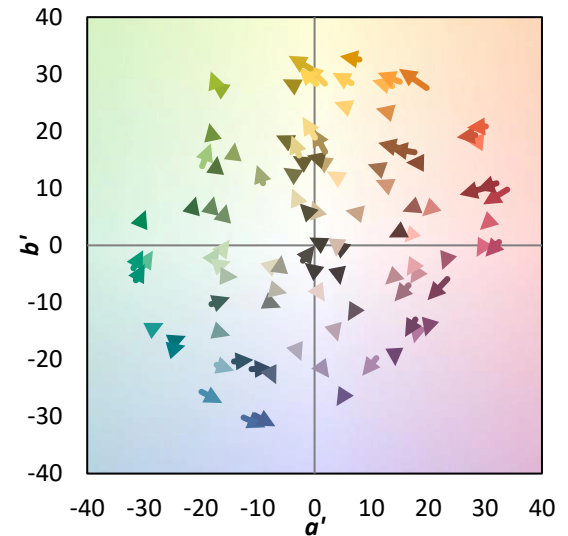
TM-30-18

Summary

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

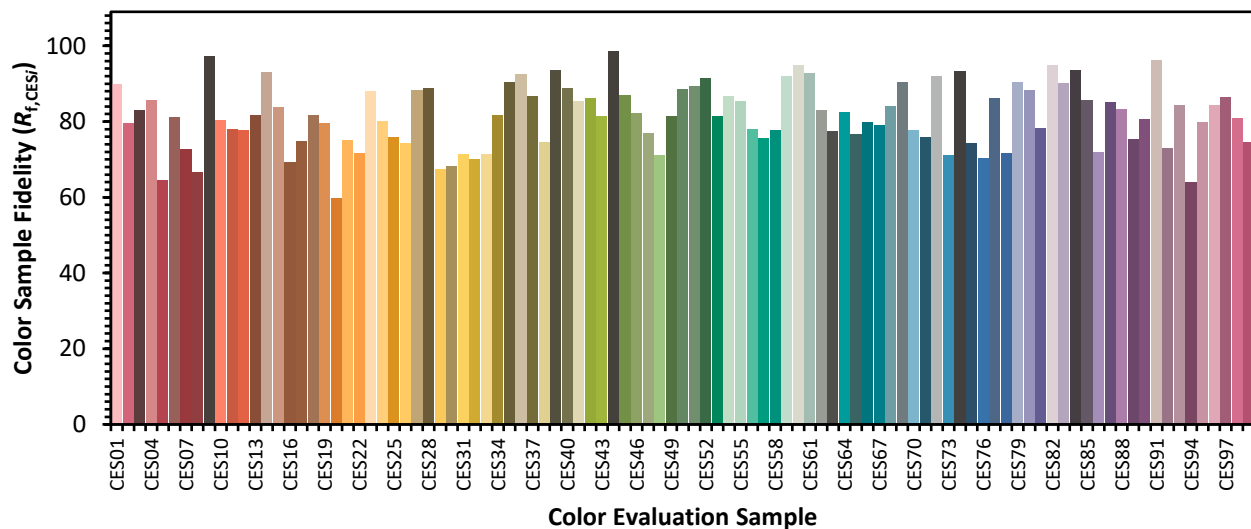


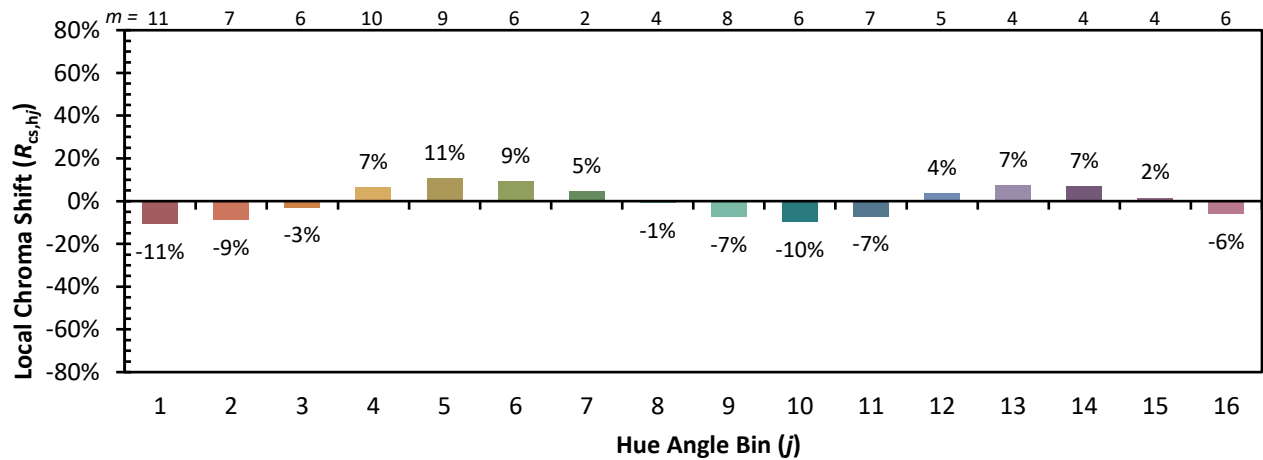
Color Vector Graphics

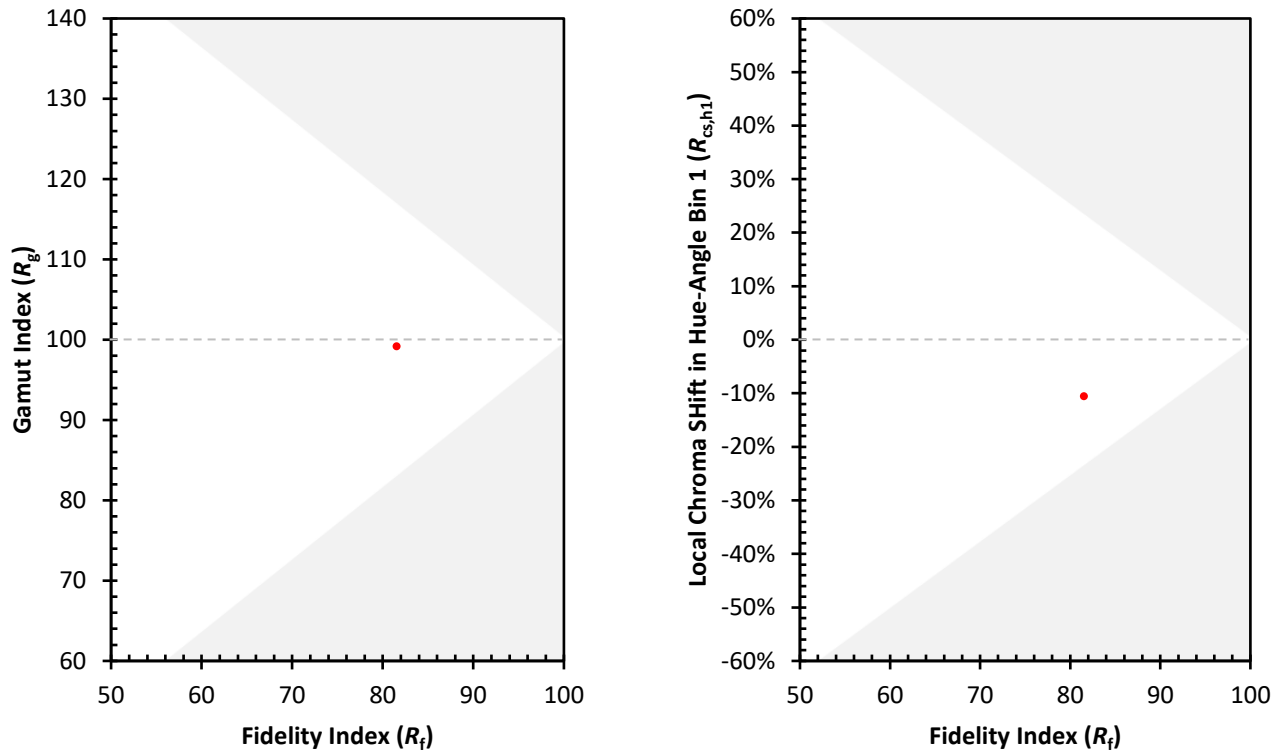


Individual Sample Fidelity Index ($R_{f,i}$)

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)