

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: P324975

Luminaire Tested: **GLEON-SA1D-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-SA1D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

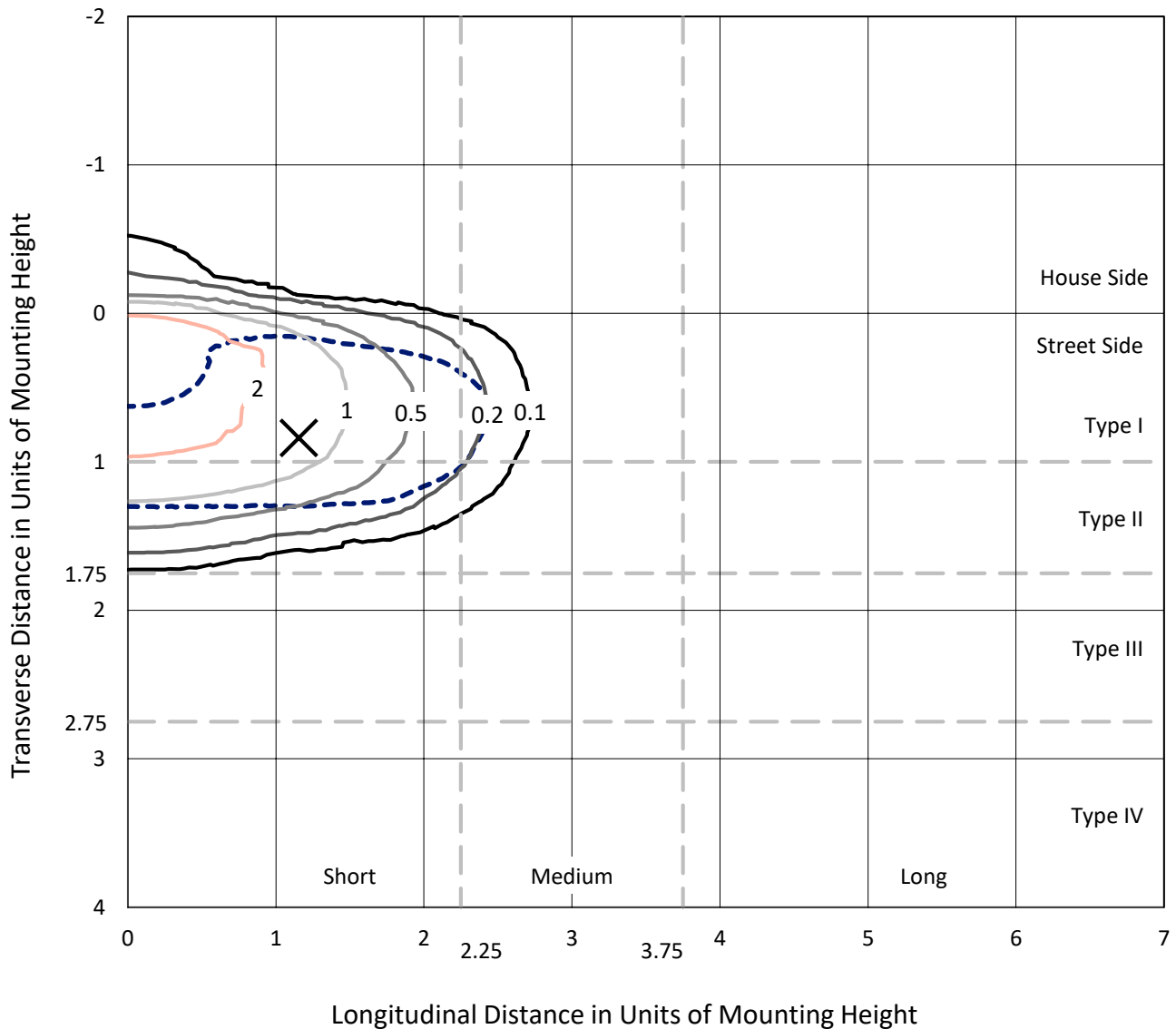
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA1D-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

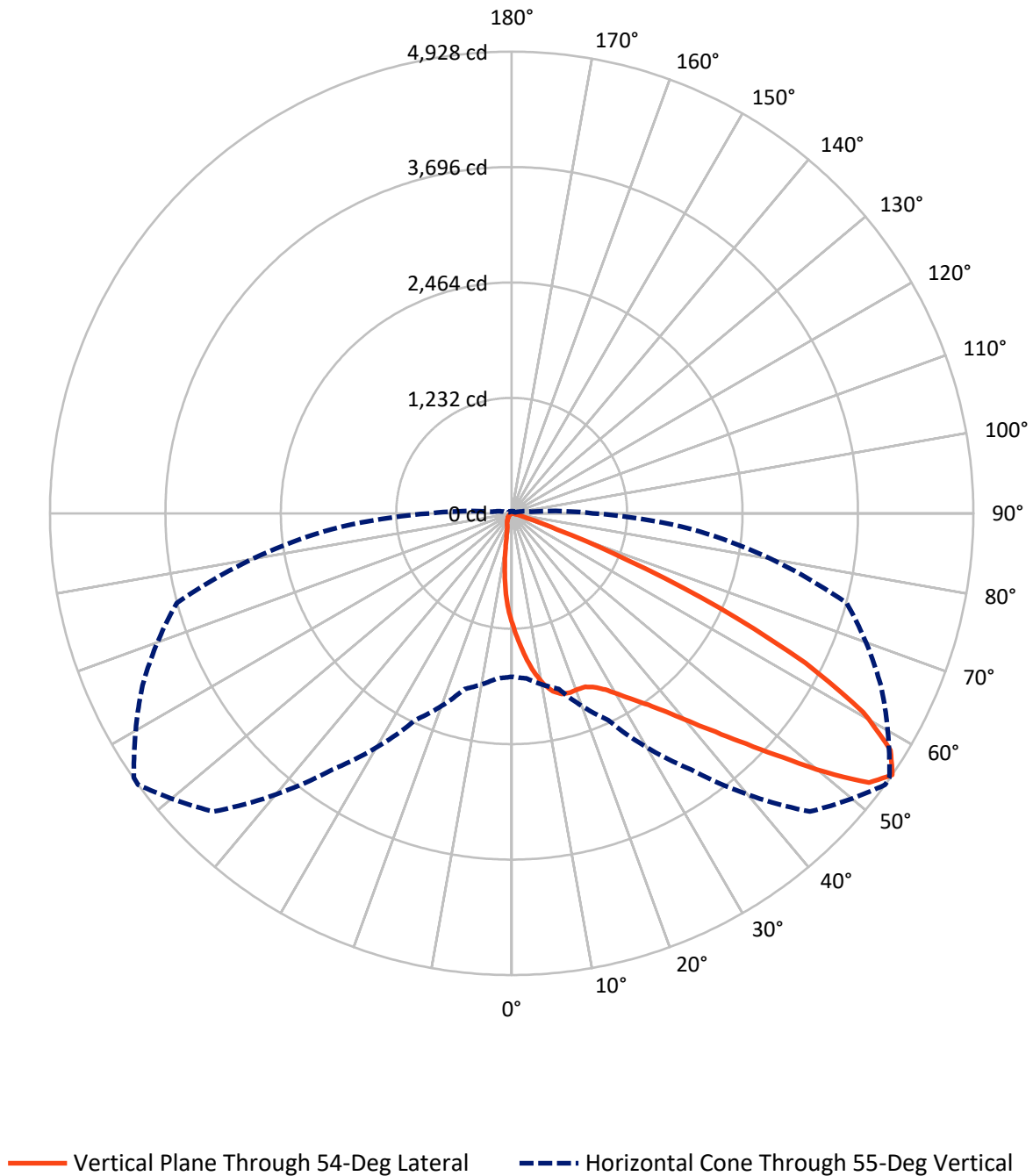
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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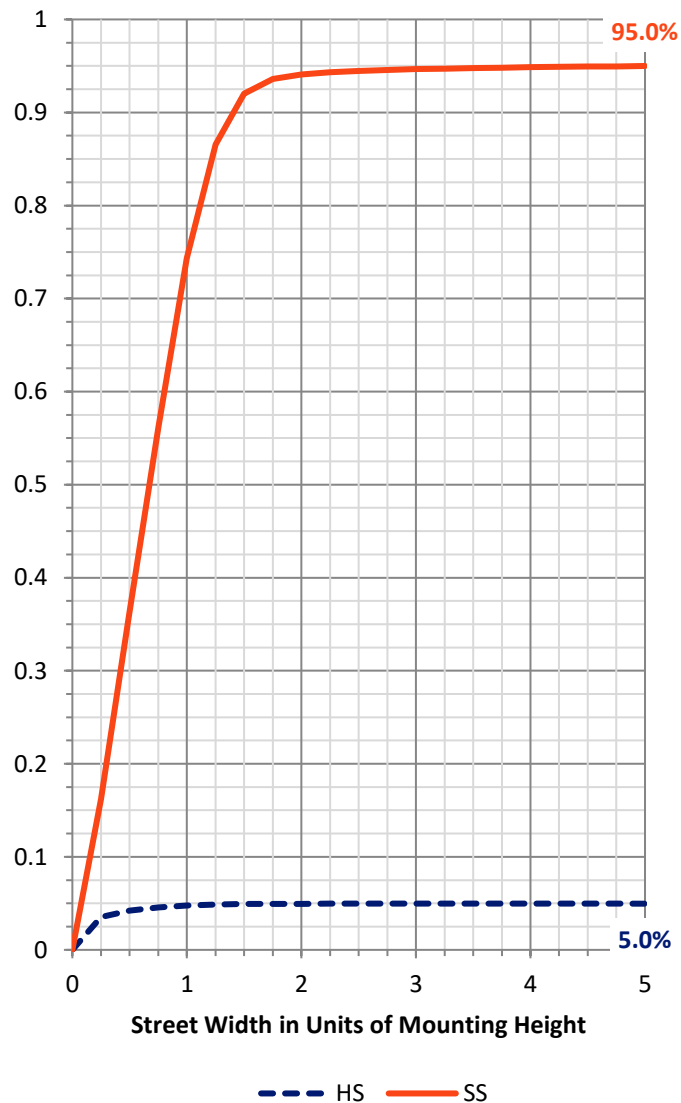
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	263.6	0.0	263.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5020.4	0.0	5020.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	5284.0	0.0	5284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	2.1
10°-20°	298.9	5.7
20°-30°	510.3	9.7
30°-40°	818.9	15.5
40°-50°	1308.6	24.8
50°-60°	1402.2	26.5
60°-70°	719.9	13.6
70°-80°	109.1	2.1
80°-90°	7.1	0.1
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°	5284.0	100.0
0°-180°	5284.0	100.0

Coefficient of Utilization



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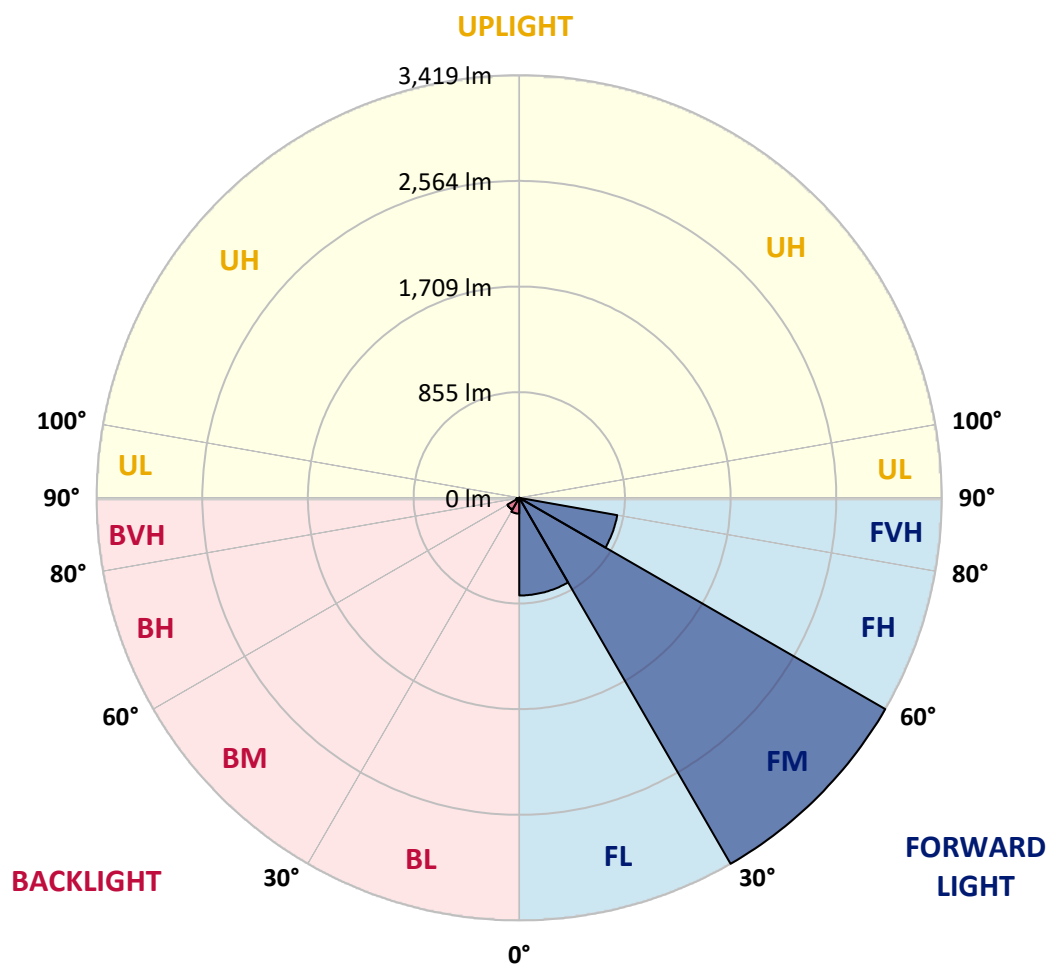
CATALOG NUMBER: GLEON-SA1D-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.9	14.9			
FM	(30°-60°)	3419.0	64.7			
FH	(60°-80°)	804.7	15.2			G1/1800
FVH	(80°-90°)	6.8	0.1			G0/10
BL	(0°-30°)	128.3	2.4	B1/500		
BM	(30°-60°)	110.8	2.1	B0/220		
BH	(60°-80°)	24.3	0.5	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1485.1	1462.9	1463.6	1453.6	1416.8	1388.1	1358.2	1351.1	1304.6	1255.7	1208.7
5°	1741.8	1725.6	1721.7	1702.3	1651.2	1597.1	1539.2	1525.7	1434.6	1334.7	1236.3
7.5°	1873.7	1873.9	1870.7	1863.6	1831.7	1779.2	1708.5	1694.3	1570.4	1420.5	1265.1
10°	1835.3	1844.0	1861.8	1885.3	1909.7	1903.1	1850.0	1837.2	1702.5	1511.3	1297.0
12.5°	1745.9	1747.0	1766.9	1805.5	1875.7	1947.8	1948.8	1944.4	1828.7	1606.2	1332.2
15°	1701.4	1705.7	1713.0	1737.9	1804.5	1920.0	2002.6	2008.8	1944.4	1707.1	1369.6
17.5°	1730.6	1736.8	1730.6	1733.6	1772.1	1876.0	2012.0	2027.7	2045.5	1806.8	1405.0
20°	1809.8	1815.5	1804.5	1792.4	1800.0	1863.2	2005.4	2026.6	2124.7	1895.4	1434.6
22.5°	1916.6	1918.9	1902.2	1882.4	1876.9	1906.5	2010.8	2032.7	2188.1	1975.5	1453.4
25°	2034.1	2036.2	2015.4	1992.6	1979.6	1991.7	2055.8	2072.2	2244.0	2051.9	1464.1
27.5°	2162.1	2163.9	2137.9	2109.9	2094.8	2095.3	2129.9	2147.5	2303.6	2139.1	1472.8
30°	2297.4	2296.5	2272.6	2233.5	2214.4	2213.9	2236.7	2254.5	2389.9	2250.9	1484.6
32.5°	2449.4	2447.6	2413.6	2365.2	2343.5	2346.7	2367.0	2377.3	2496.9	2370.0	1505.8
35°	2649.5	2644.3	2592.9	2532.9	2493.0	2491.9	2509.0	2517.2	2633.3	2514.2	1541.2
37.5°	2909.2	2904.4	2834.8	2747.7	2691.5	2670.5	2690.8	2701.3	2828.0	2699.3	1598.0
40°	3165.3	3160.5	3119.2	3039.3	2952.8	2902.4	2918.3	2929.5	3071.0	2923.8	1669.7
42.5°	3341.9	3346.0	3360.4	3367.0	3286.0	3180.1	3187.4	3199.0	3326.4	3163.9	1751.6
45°	3388.4	3397.3	3478.6	3638.1	3668.4	3585.8	3509.4	3515.8	3585.8	3403.9	1833.5
47.5°	3248.5	3265.0	3421.7	3718.4	3975.3	4033.8	3889.1	3880.6	3834.8	3598.1	1891.7
50°	2930.7	2945.7	3148.8	3587.6	4068.4	4461.4	4344.1	4319.2	4053.1	3714.3	1912.2
52.5°	2470.6	2488.9	2653.9	3176.0	3893.0	4652.2	4774.9	4754.2	4213.3	3723.4	1915.7
55°	1744.8	1766.9	1941.5	2434.1	3336.9	4500.4	4927.6	4921.4	4346.4	3699.2	1923.0
57.5°	980.5	996.5	1184.8	1560.4	2443.9	3919.9	4768.1	4808.9	4426.7	3657.2	1933.9
60°	435.4	439.7	537.2	776.8	1430.8	2995.7	4311.5	4380.4	4357.8	3601.1	1952.4
62.5°	241.4	237.8	237.8	322.9	621.8	1854.5	3515.8	3629.6	4063.6	3534.7	1953.3
65°	189.2	185.7	175.9	177.3	236.9	823.1	2434.6	2637.0	3505.0	3340.0	1887.6
67.5°	160.4	157.5	147.6	143.8	147.2	271.5	1337.7	1547.8	2659.6	2834.1	1635.0
70°	135.5	133.5	128.5	123.7	115.0	134.2	511.8	654.7	1638.9	1885.3	1116.1
72.5°	109.1	108.2	110.0	105.9	95.4	89.5	175.0	212.0	736.1	841.3	459.8
75°	94.0	93.6	94.5	90.4	78.5	62.3	89.0	97.2	207.7	205.8	93.1
77.5°	61.2	61.8	78.3	76.4	67.5	41.5	46.1	49.7	63.0	47.2	28.3
80°	39.0	38.6	39.7	63.4	60.7	31.7	23.0	24.2	30.3	23.3	13.7
82.5°	23.7	23.3	26.0	29.7	30.6	22.1	14.1	14.4	18.9	15.1	7.3
85°	2.1	2.7	15.7	14.6	10.5	6.8	6.8	7.3	10.0	8.9	4.1
87.5°	0.0	0.0	2.7	4.1	2.3	2.5	2.5	2.7	3.9	3.9	2.1
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: P324975

CATALOG NUMBER: GLEON-SA1D-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1184.3	1160.6	1112.7	1066.6	1027.5	989.9	947.0	904.6	884.7	876.7	868.5
5°	1186.4	1137.5	1038.7	939.2	836.1	743.2	664.0	582.8	542.2	524.4	516.2
7.5°	1189.1	1114.7	955.0	787.9	621.8	495.9	385.9	315.1	284.6	279.8	267.9
10°	1189.6	1087.1	857.8	620.9	416.9	298.9	230.0	193.5	180.0	177.8	173.9
12.5°	1190.5	1054.5	749.8	459.8	277.9	199.9	166.4	154.3	150.6	150.4	150.4
15°	1193.2	1020.2	637.8	331.3	199.7	158.4	146.0	141.3	139.9	140.6	140.3
17.5°	1193.2	979.9	527.8	246.9	161.3	142.4	135.5	132.4	131.9	132.6	132.8
20°	1184.5	930.8	426.9	192.1	143.1	132.1	126.0	123.0	121.9	122.3	122.5
22.5°	1163.8	870.6	344.8	159.0	131.0	122.8	116.1	111.6	109.8	110.0	110.0
25°	1131.4	799.1	269.7	137.6	121.2	112.7	105.0	99.7	98.6	98.4	98.8
27.5°	1089.8	720.2	214.7	121.2	109.5	101.5	93.8	89.5	88.5	88.8	89.0
30°	1049.0	638.3	169.3	107.3	96.5	89.0	83.1	81.0	81.0	81.7	81.9
32.5°	1011.6	559.5	133.9	95.2	84.9	78.0	74.6	74.4	75.5	76.0	76.2
35°	979.4	486.7	110.9	85.8	75.8	69.8	68.7	69.6	71.0	71.9	72.1
37.5°	956.6	421.7	97.0	78.0	68.7	63.9	63.7	65.5	67.3	69.4	69.8
40°	947.0	366.7	87.4	71.2	63.0	59.3	58.6	61.2	64.6	67.5	68.0
42.5°	939.0	321.8	79.2	64.6	58.4	53.2	52.9	56.1	60.2	63.2	63.9
45°	932.2	285.7	71.7	57.5	52.5	45.6	46.3	50.4	53.6	56.8	57.5
47.5°	918.0	256.0	63.4	50.0	43.4	39.0	40.4	44.0	46.6	51.3	52.0
50°	892.7	231.8	55.0	40.8	35.4	33.8	35.8	38.3	41.5	45.6	46.1
52.5°	875.6	213.6	47.7	34.2	29.2	29.7	31.7	32.6	34.5	36.1	35.6
55°	865.8	203.5	41.8	29.7	24.9	26.2	26.7	25.6	24.6	23.0	22.4
57.5°	864.6	194.4	37.2	25.8	21.9	22.6	21.0	17.1	13.9	12.1	11.6
60°	862.8	183.2	33.5	21.7	19.4	18.5	15.1	9.4	6.6	6.2	6.2
62.5°	842.9	165.9	30.8	18.3	16.4	13.9	8.7	4.3	3.7	3.9	3.9
65°	779.7	141.7	28.1	14.8	13.0	10.0	4.3	2.5	1.4	1.6	1.6
67.5°	662.9	113.0	25.1	11.4	9.8	6.4	2.5	1.1	0.0	0.0	0.0
70°	443.8	70.1	21.2	8.0	6.4	3.9	1.8	0.2	0.0	0.0	0.0
72.5°	170.2	37.9	17.1	4.8	4.1	2.7	1.1	0.0	0.0	0.0	0.0
75°	38.3	24.9	11.9	3.4	3.0	1.8	0.5	0.0	0.0	0.0	0.0
77.5°	14.6	18.0	6.8	2.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	7.1	10.7	3.2	1.4	1.1	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	4.1	1.4	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.7	0.2	0.2	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
 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

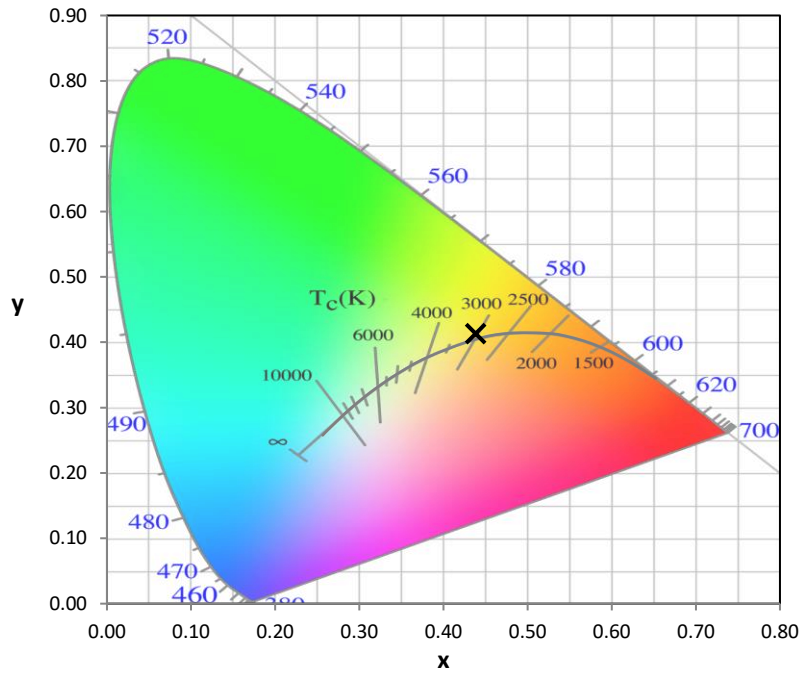
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

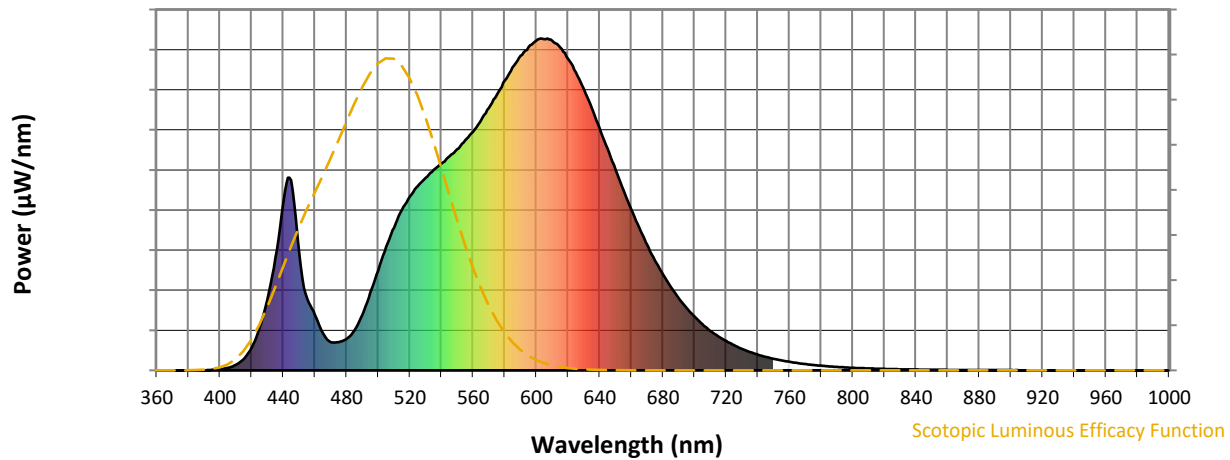


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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



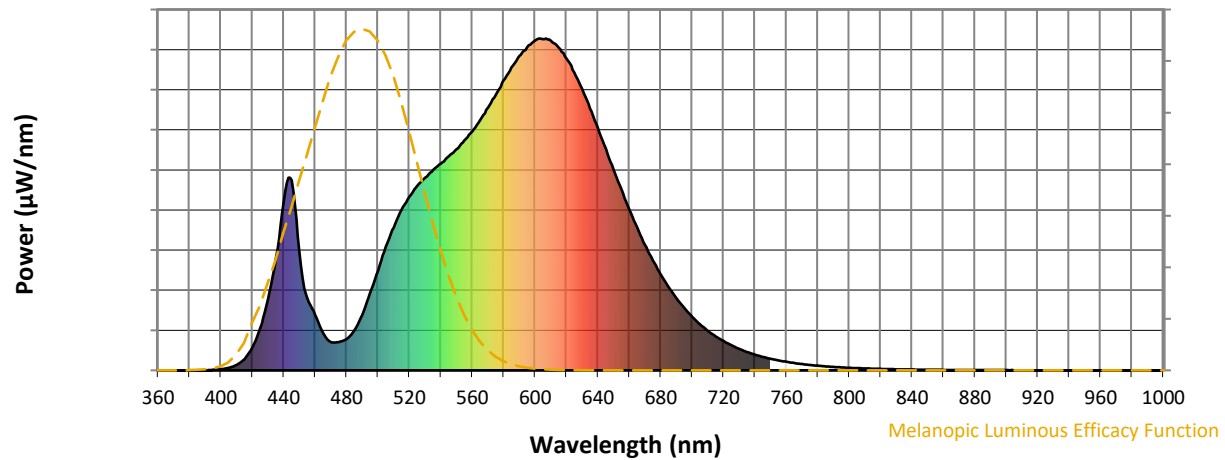
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W ^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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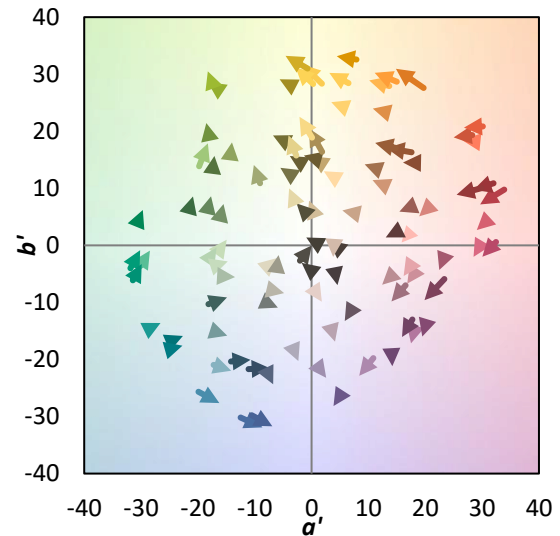
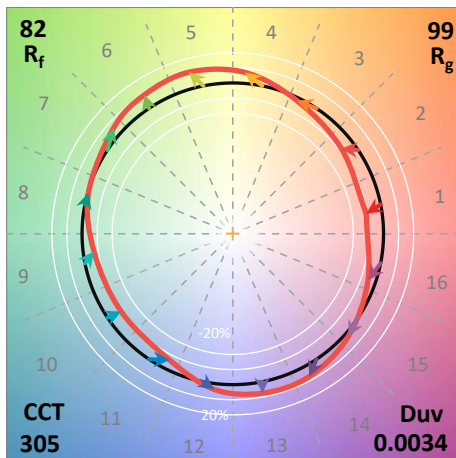
TM-30-18

Summary

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

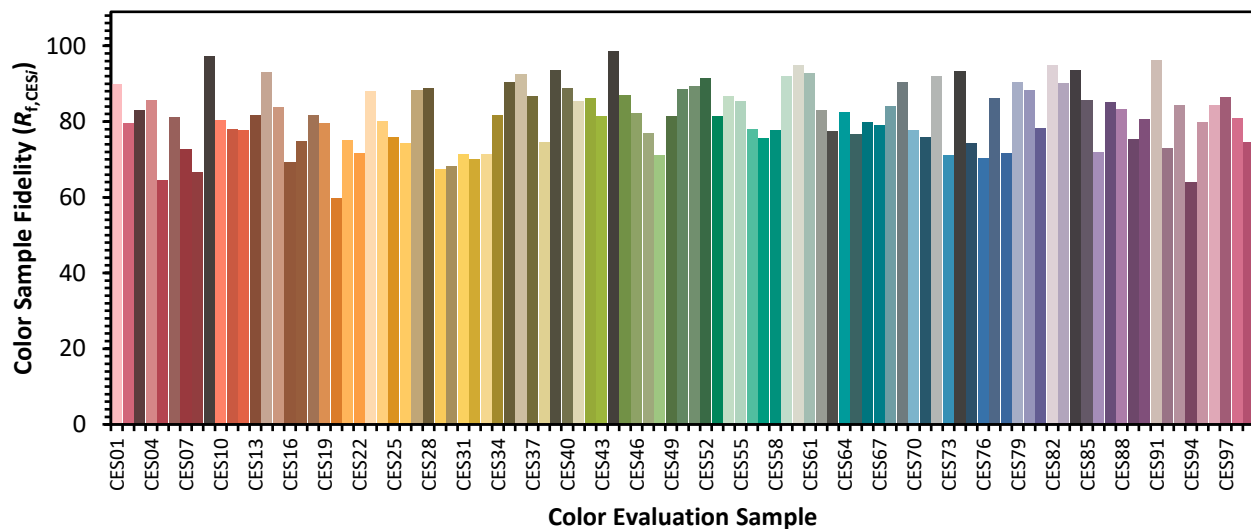


Color Vector Graphics

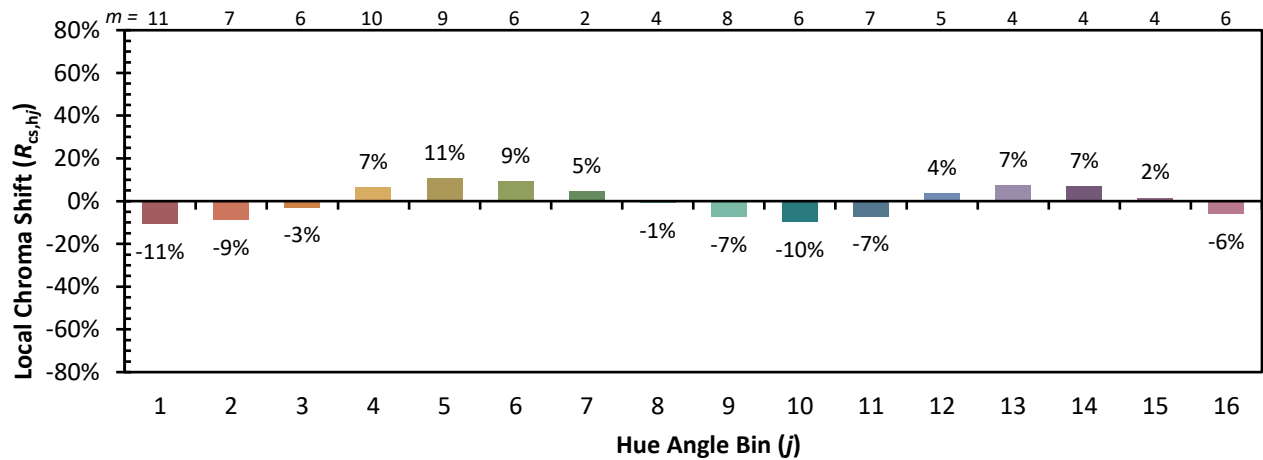


Individual Sample Fidelity Index ($R_{f,i}$)

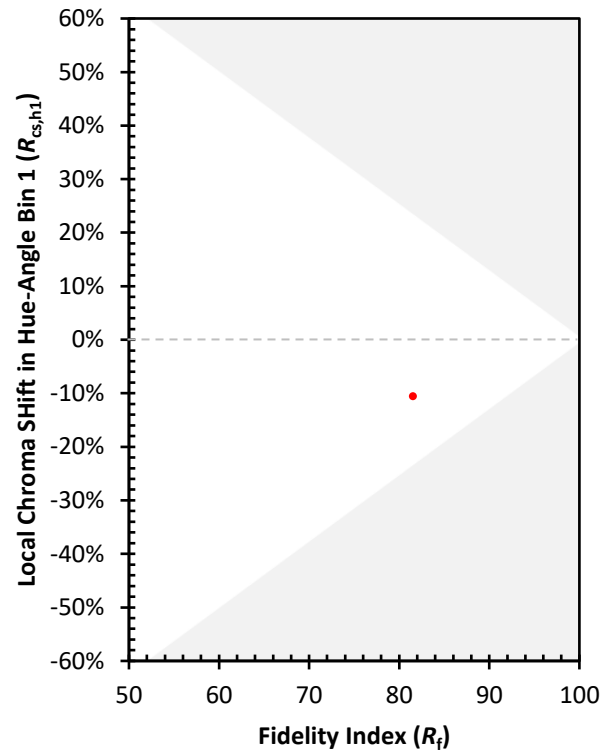
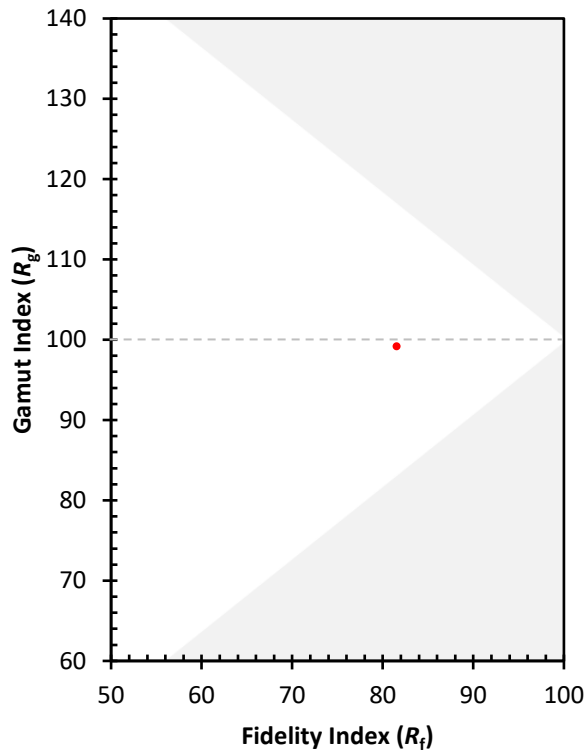
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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