

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: P318236

Luminaire Tested: **GLEON-SA2B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9118 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

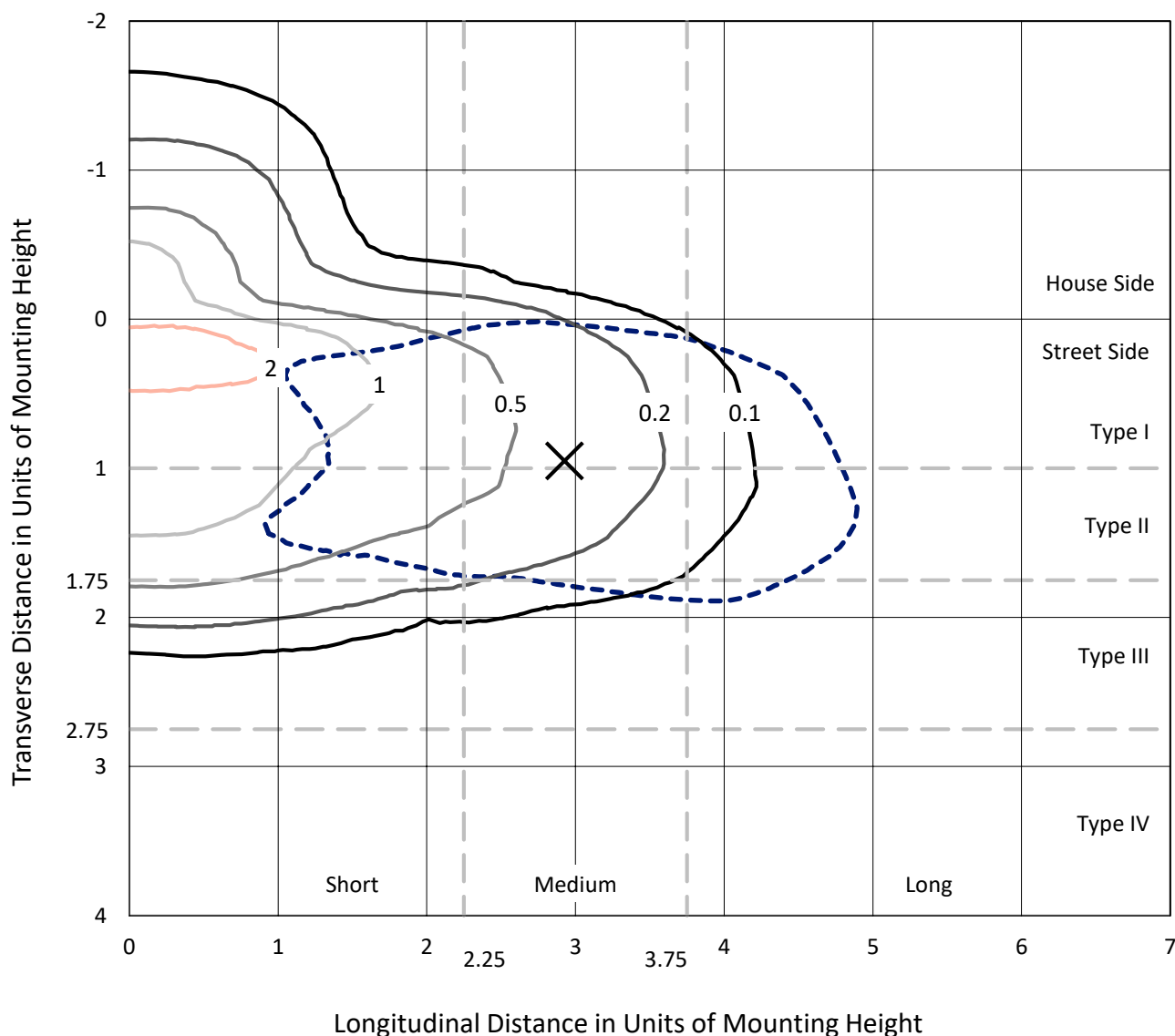
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

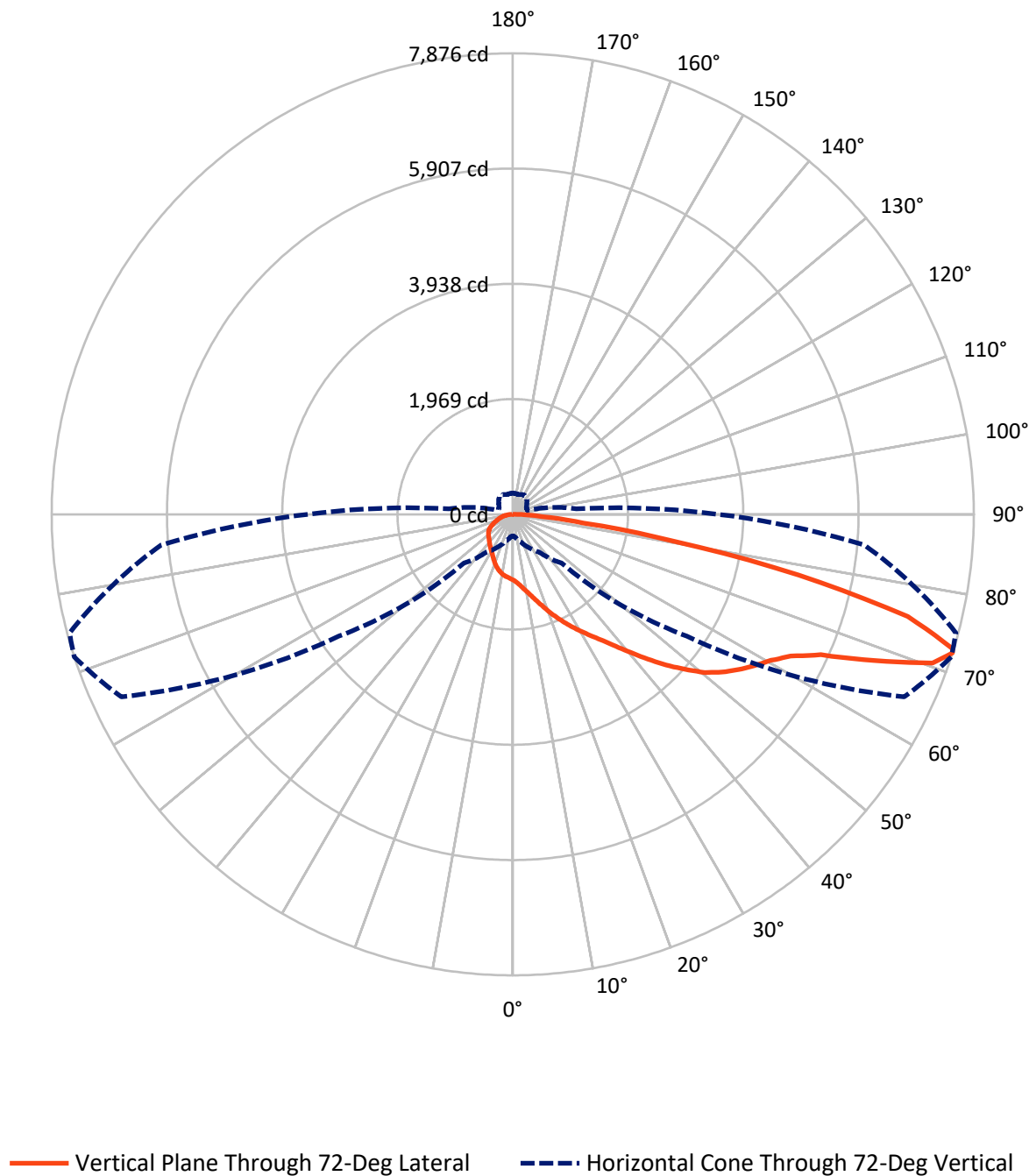
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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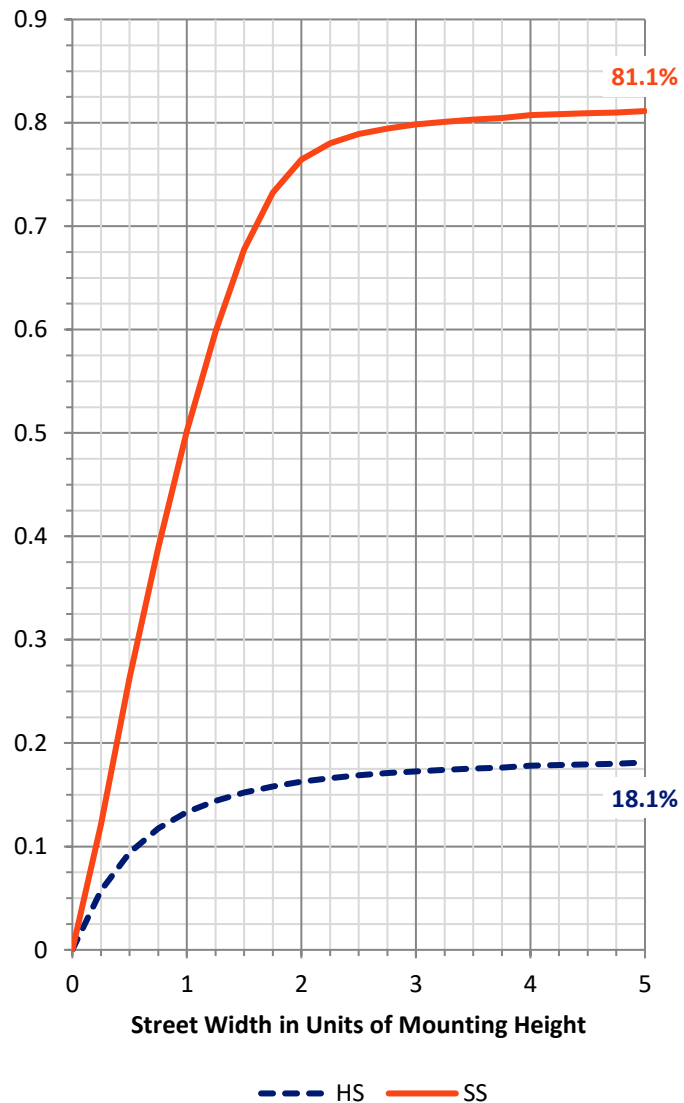
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1691.5	0.0	1691.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7426.5	0.0	7426.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	9118.0	0.0	9118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	1.2
10°-20°	363.2	4.0
20°-30°	636.5	7.0
30°-40°	943.7	10.4
40°-50°	1380.3	15.1
50°-60°	1899.2	20.8
60°-70°	2114.4	23.2
70°-80°	1432.7	15.7
80°-90°	235.5	2.6
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°	9118.0	100.0
0°-180°	9118.0	100.0

Coefficient of Utilization



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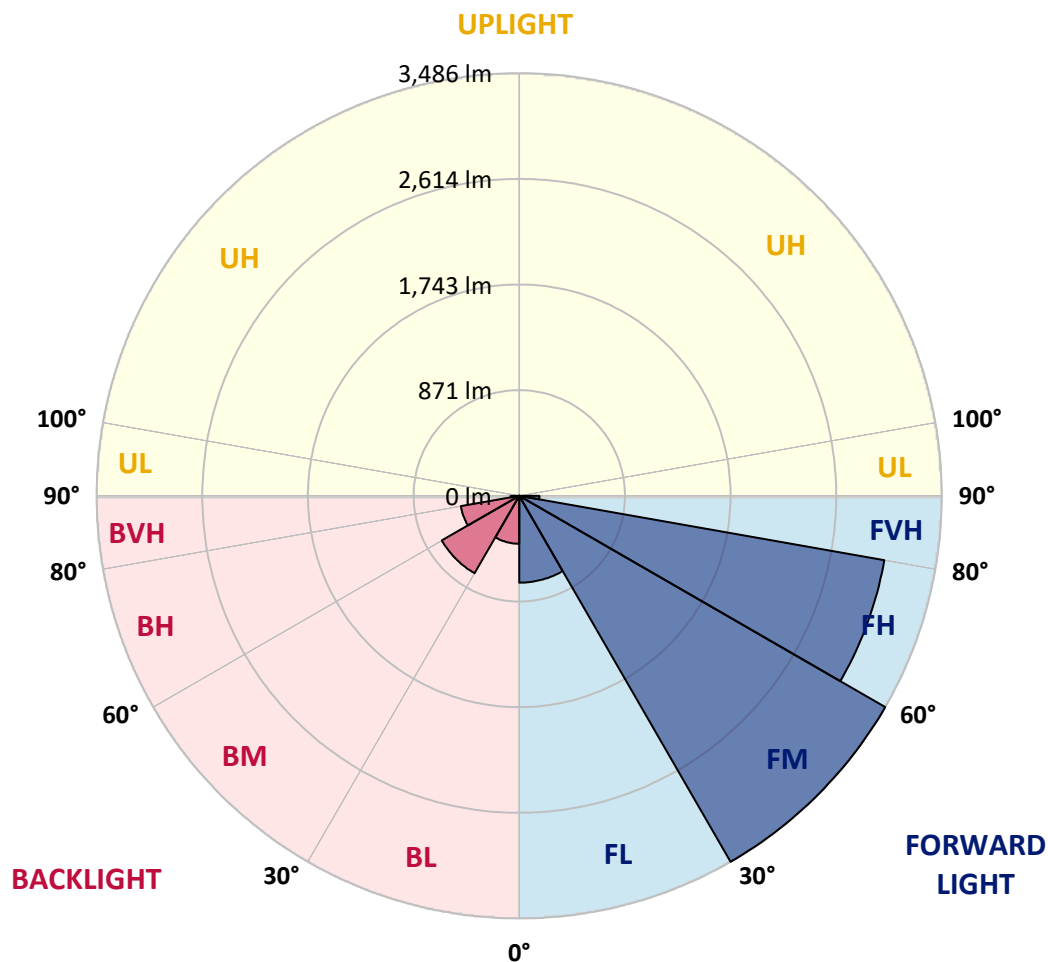
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	716.7	7.9			
FM	(30°-60°)	3485.9	38.2			
FH	(60°-80°)	3057.8	33.5			G2/5000
FVH	(80°-90°)	166.1	1.8			G2/225
BL	(0°-30°)	395.4	4.3	B1/500		
BM	(30°-60°)	737.3	8.1	B1/1000		
BH	(60°-80°)	489.4	5.4	B1/500		G1/500
BVH	(80°-90°)	69.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1239.2	1237.3	1230.7	1230.7	1218.1	1207.5	1187.4	1173.9	1157.9	1152.2	1133.4
5°	1359.1	1359.7	1351.6	1345.9	1327.4	1304.8	1270.6	1239.5	1208.4	1195.8	1157.2
7.5°	1459.9	1458.6	1456.4	1451.7	1434.4	1411.2	1365.1	1318.9	1273.1	1254.2	1187.7
10°	1524.6	1527.4	1529.3	1531.5	1524.2	1507.6	1464.0	1407.8	1347.8	1322.1	1224.1
12.5°	1557.2	1562.2	1571.0	1586.1	1598.0	1596.1	1564.4	1504.8	1433.5	1401.2	1269.6
15°	1576.4	1582.9	1596.8	1623.8	1657.4	1676.5	1668.0	1614.0	1534.6	1494.7	1325.2
17.5°	1588.3	1593.6	1615.0	1651.1	1701.0	1751.9	1774.1	1728.9	1648.9	1603.4	1388.9
20°	1596.4	1600.5	1627.2	1669.6	1734.3	1815.3	1877.4	1866.1	1774.8	1715.7	1455.5
22.5°	1614.7	1618.1	1643.5	1686.2	1757.8	1862.4	1977.0	1993.9	1907.6	1840.7	1526.8
25°	1665.5	1665.5	1686.9	1716.7	1783.9	1903.2	2061.1	2136.1	2043.2	1965.3	1592.7
27.5°	1762.5	1761.6	1769.4	1779.8	1830.7	1944.6	2136.1	2261.7	2183.9	2098.8	1656.7
30°	1877.4	1883.7	1884.7	1879.6	1903.5	1996.4	2205.5	2394.2	2325.4	2233.8	1722.3
32.5°	2025.3	2029.4	2024.7	2008.0	2004.6	2069.9	2273.6	2533.0	2478.7	2374.7	1782.3
35°	2213.1	2205.2	2190.4	2156.5	2124.2	2168.2	2351.5	2671.7	2650.7	2545.2	1864.9
37.5°	2414.3	2414.6	2396.4	2319.5	2274.9	2293.7	2458.9	2829.0	2858.9	2748.0	1970.7
40°	2575.7	2584.1	2595.4	2494.4	2436.6	2462.6	2595.4	3011.4	3105.0	2988.5	2108.5
42.5°	2688.4	2698.1	2730.1	2666.7	2606.7	2655.1	2756.2	3206.1	3381.3	3266.0	2269.9
45°	2807.7	2813.0	2835.6	2808.3	2770.0	2878.9	2937.3	3407.6	3673.6	3561.8	2450.4
47.5°	2933.3	2938.9	2962.1	2943.9	2923.8	3088.0	3126.3	3597.6	3953.6	3886.7	2643.2
50°	3088.3	3092.1	3114.1	3081.1	3087.4	3245.6	3295.2	3771.8	4247.1	4178.7	2836.6
52.5°	3300.0	3300.9	3331.3	3301.5	3272.0	3361.2	3440.6	3936.0	4477.3	4444.9	3030.0
55°	3465.7	3475.8	3575.6	3569.3	3552.4	3466.0	3562.1	4092.4	4682.6	4698.0	3235.3
57.5°	3359.9	3399.2	3601.3	3743.9	3882.6	3726.9	3726.3	4268.5	4873.5	4946.3	3461.0
60°	2942.7	2996.0	3294.0	3610.1	4044.3	4180.9	4067.3	4483.6	5066.2	5192.5	3743.9
62.5°	2101.6	2189.5	2593.2	3098.1	3822.7	4481.7	4761.1	4824.8	5328.4	5477.5	4111.5
65°	1062.4	1129.0	1467.4	2075.5	3054.1	4285.1	5515.2	5572.0	5783.9	5916.4	4677.6
67.5°	645.5	670.6	835.7	1154.4	1872.4	3337.9	5761.3	6817.5	6665.5	6735.8	5484.7
70°	475.6	494.2	597.1	766.7	1076.9	1958.7	5006.0	7706.3	7606.4	7598.6	6081.3
72°	370.5	384.0	475.0	619.4	787.4	1175.1	3628.3	7378.2	7875.8	7836.3	6026.6
72.5°	351.3	363.2	446.1	583.0	744.1	1065.2	3262.3	7156.9	7856.3	7838.4	5956.0
75°	276.6	285.1	330.3	450.8	582.4	604.4	1787.6	5546.3	6969.4	7259.2	5357.0
77.5°	228.9	230.1	254.0	328.1	454.0	427.3	878.1	3848.1	4990.6	5309.2	3794.7
80°	186.5	188.1	199.4	230.1	343.5	316.2	416.9	2212.7	2794.2	2797.6	1804.6
82.5°	148.5	148.8	161.4	168.3	246.8	226.0	238.9	1038.9	1221.0	1174.5	648.6
85°	104.5	102.3	157.6	138.1	161.4	145.0	131.9	411.3	504.8	482.9	203.1
87.5°	34.8	36.1	70.0	89.5	94.2	82.3	58.7	157.6	190.6	189.0	64.4
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-SA2B-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1127.4	1117.4	1102.6	1086.3	1073.4	1060.2	1050.5	1045.5	1039.8	1035.1	1040.8
5°	1139.3	1120.5	1089.1	1058.3	1035.7	1015.6	1001.2	993.7	986.8	982.0	982.7
7.5°	1158.8	1128.3	1075.6	1030.7	999.3	977.6	962.9	957.9	953.5	952.2	953.8
10°	1179.5	1134.6	1057.7	998.1	962.3	944.4	937.8	941.2	944.4	947.2	950.3
12.5°	1203.1	1140.3	1031.6	959.8	929.3	922.4	929.0	944.1	955.0	961.6	965.7
15°	1233.8	1145.3	1001.5	921.5	901.0	908.9	931.2	957.2	976.4	988.6	990.5
17.5°	1262.1	1145.0	962.9	882.8	878.1	901.0	934.6	971.4	997.1	1014.4	1017.8
20°	1291.3	1136.5	918.0	845.2	854.9	892.6	936.2	980.5	1011.6	1031.6	1036.4
22.5°	1318.6	1121.8	868.7	810.9	835.4	881.3	930.2	975.1	1006.2	1022.5	1027.6
25°	1337.1	1096.0	818.8	782.1	818.2	867.5	910.8	946.9	970.1	978.3	979.5
27.5°	1346.5	1062.4	771.7	756.9	800.3	844.8	874.7	892.6	899.2	898.5	897.3
30°	1347.8	1018.1	731.2	736.5	779.5	811.6	825.7	822.2	813.8	799.3	800.6
32.5°	1343.7	968.2	697.3	717.1	753.2	771.1	771.7	755.1	732.5	709.5	703.3
35°	1345.0	919.3	667.5	695.1	721.1	729.0	721.8	697.3	666.5	637.0	630.7
37.5°	1358.8	876.6	641.7	669.7	685.7	687.6	677.2	651.5	628.8	600.0	597.5
40°	1391.8	846.1	617.2	641.1	650.2	651.1	636.4	618.2	620.1	604.7	604.4
42.5°	1451.1	832.9	595.6	611.3	616.9	618.8	607.5	595.9	612.2	602.2	598.7
45°	1527.7	836.1	577.4	582.1	592.4	601.2	594.3	580.2	586.5	542.8	528.4
47.5°	1616.2	856.1	562.9	557.0	574.8	591.5	580.8	559.5	537.2	493.8	485.7
50°	1719.8	887.2	549.7	532.1	555.7	578.3	567.6	537.2	503.6	482.5	479.7
52.5°	1827.8	925.2	536.5	504.8	531.5	568.3	562.9	532.1	490.7	470.0	466.2
55°	1950.3	963.5	519.9	473.1	505.5	563.5	560.7	513.9	481.0	469.4	466.5
57.5°	2102.5	1007.2	497.9	440.2	481.0	546.6	537.8	503.0	470.9	462.1	461.2
60°	2301.0	1071.5	466.2	405.0	451.1	520.5	518.6	486.9	454.9	448.6	447.4
62.5°	2598.6	1177.9	422.6	369.8	417.9	476.3	493.5	465.3	438.0	437.6	438.3
65°	3060.1	1338.1	375.2	339.1	384.3	438.9	464.3	443.0	420.7	427.0	427.9
67.5°	3595.1	1470.9	328.7	308.9	350.1	403.4	438.0	420.7	397.8	414.1	414.4
70°	3773.1	1352.2	287.9	279.1	314.6	369.2	409.4	396.2	373.0	389.3	387.7
72°	3511.2	1091.6	261.5	256.5	287.9	341.0	384.0	373.3	350.4	361.4	357.3
72.5°	3428.7	1040.8	254.9	250.8	280.7	333.7	377.4	367.6	344.7	354.1	350.4
75°	3058.5	903.9	219.1	220.1	244.9	298.6	340.3	337.2	313.6	314.6	313.3
77.5°	2218.4	662.8	184.6	190.9	208.5	262.5	303.0	301.1	275.3	270.6	269.7
80°	1029.4	338.1	150.4	153.2	171.4	219.5	258.4	255.9	235.2	229.2	225.7
82.5°	352.6	160.7	113.0	114.9	132.8	176.8	224.2	222.6	205.3	193.7	186.5
85°	125.9	80.1	79.1	77.2	94.8	139.1	195.3	186.8	161.4	137.5	136.9
87.5°	40.8	34.2	40.8	40.5	55.3	94.2	141.9	120.9	117.1	97.3	95.4
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

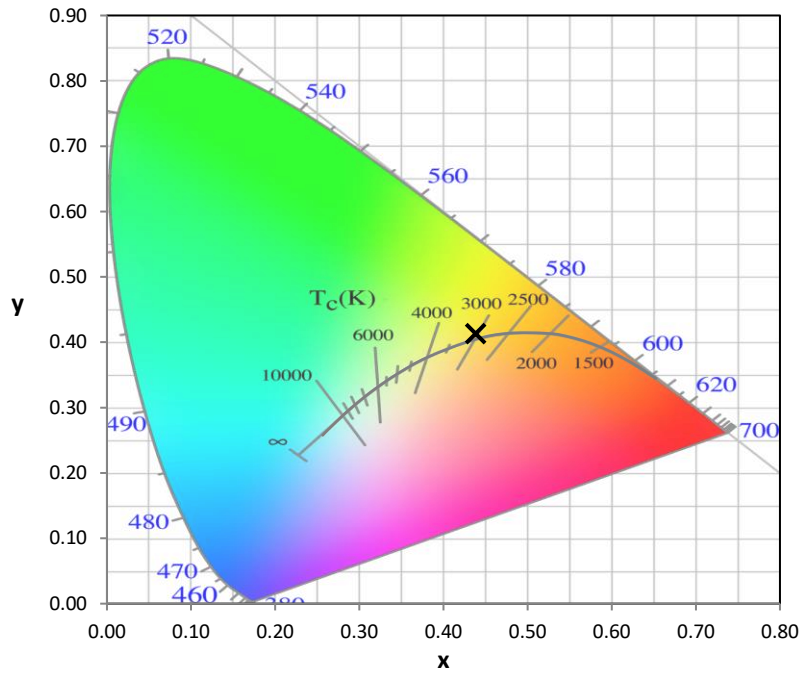
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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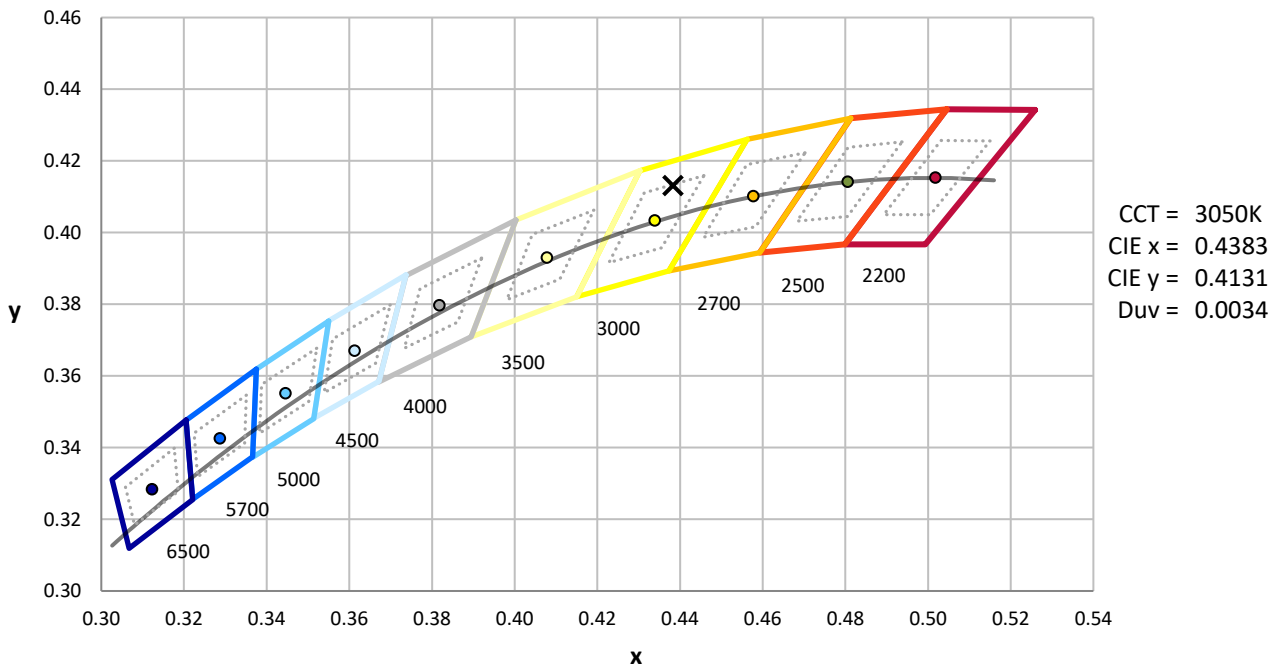
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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

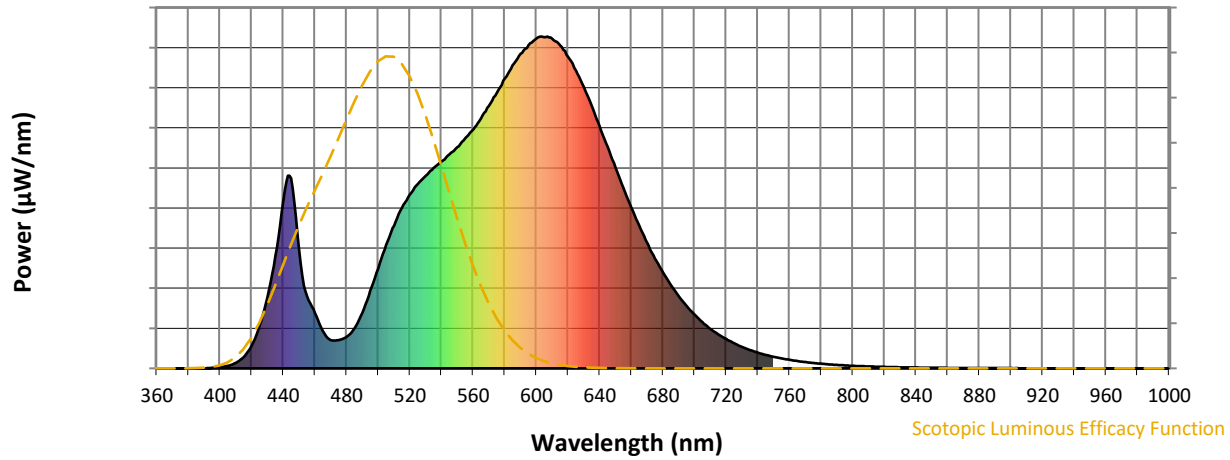


Photopic Lumens: NR

λ (nm)	Power 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



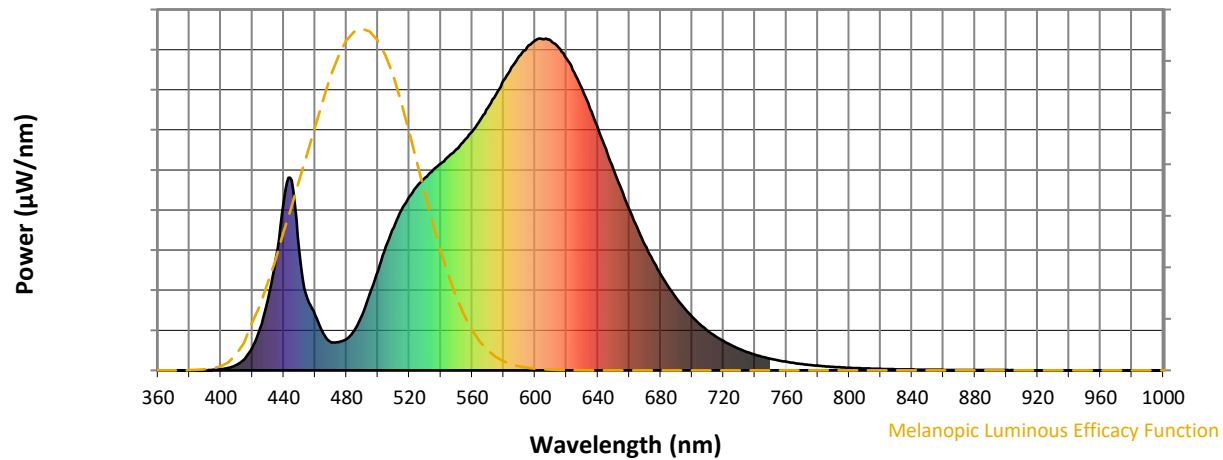
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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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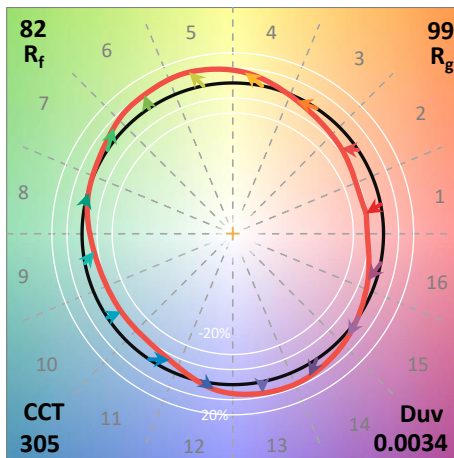
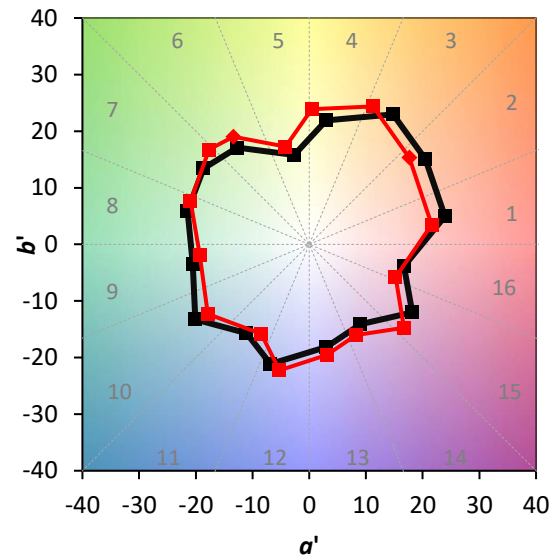
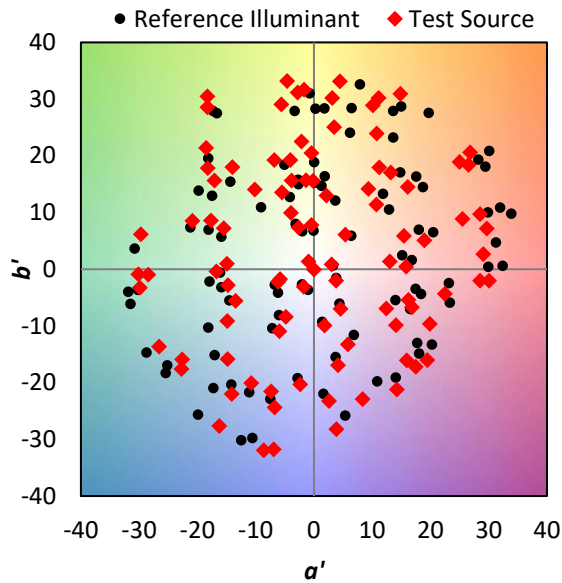
TM-30-18

Summary

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

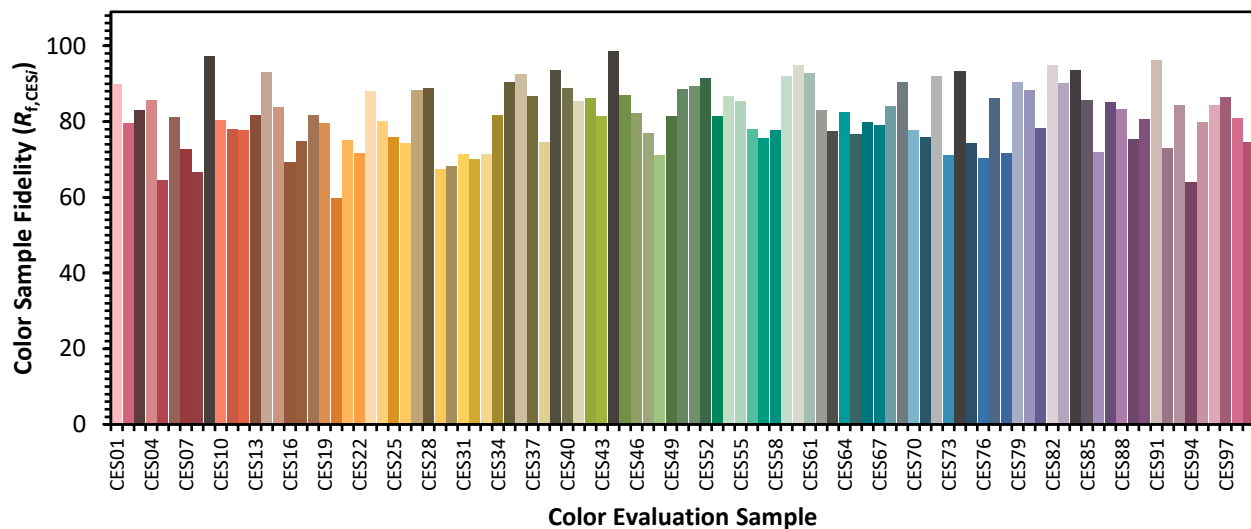


Color Vector Graphics

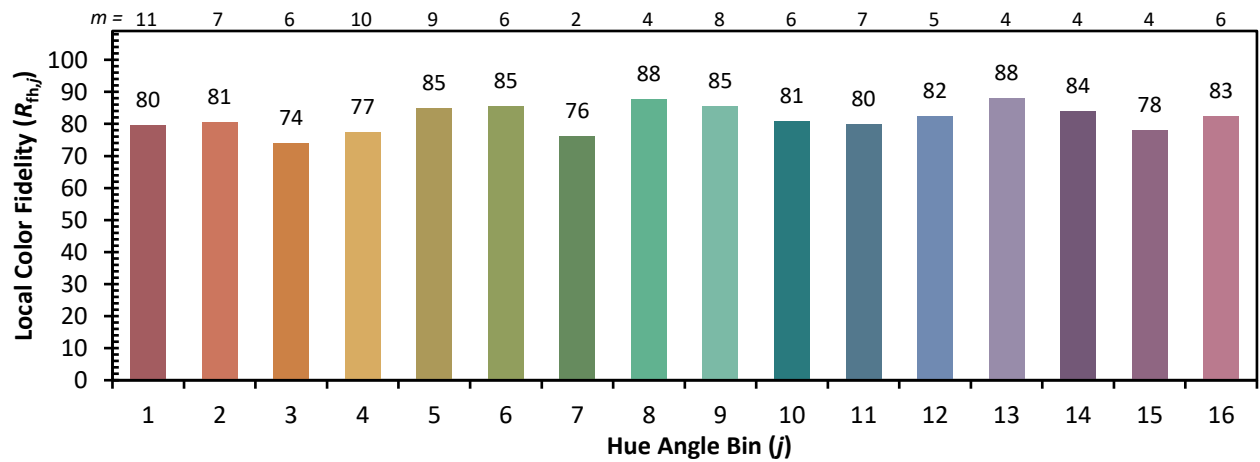
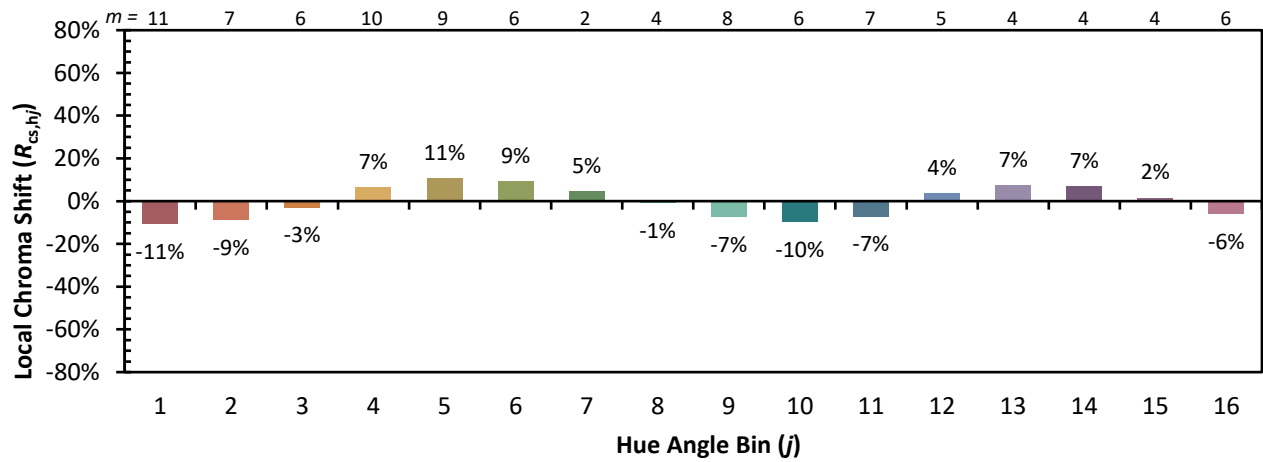


Individual Sample Fidelity Index ($R_{f,i}$)

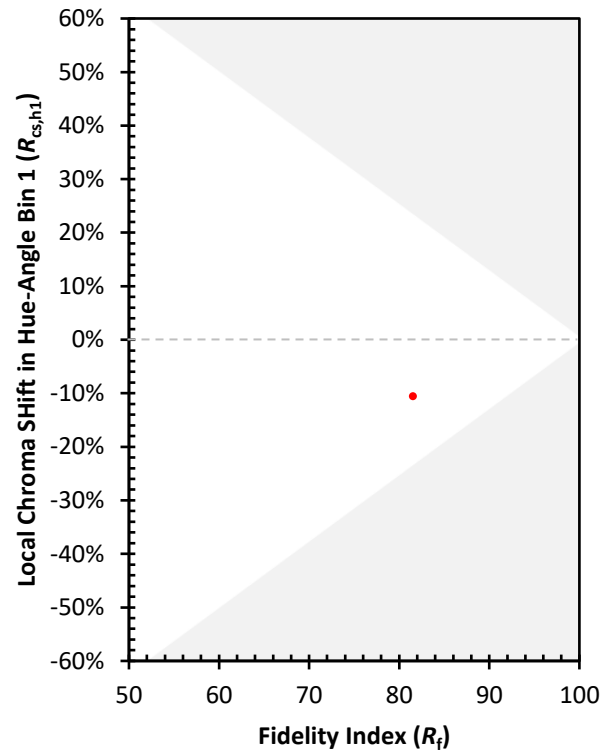
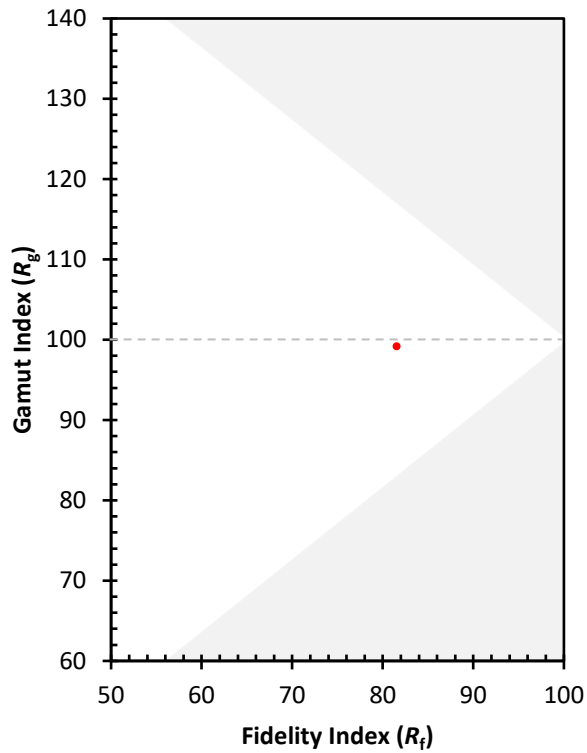
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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