

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: P318245

Luminaire Tested: **GLEON-SA1C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318245
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-SA1C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5775 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

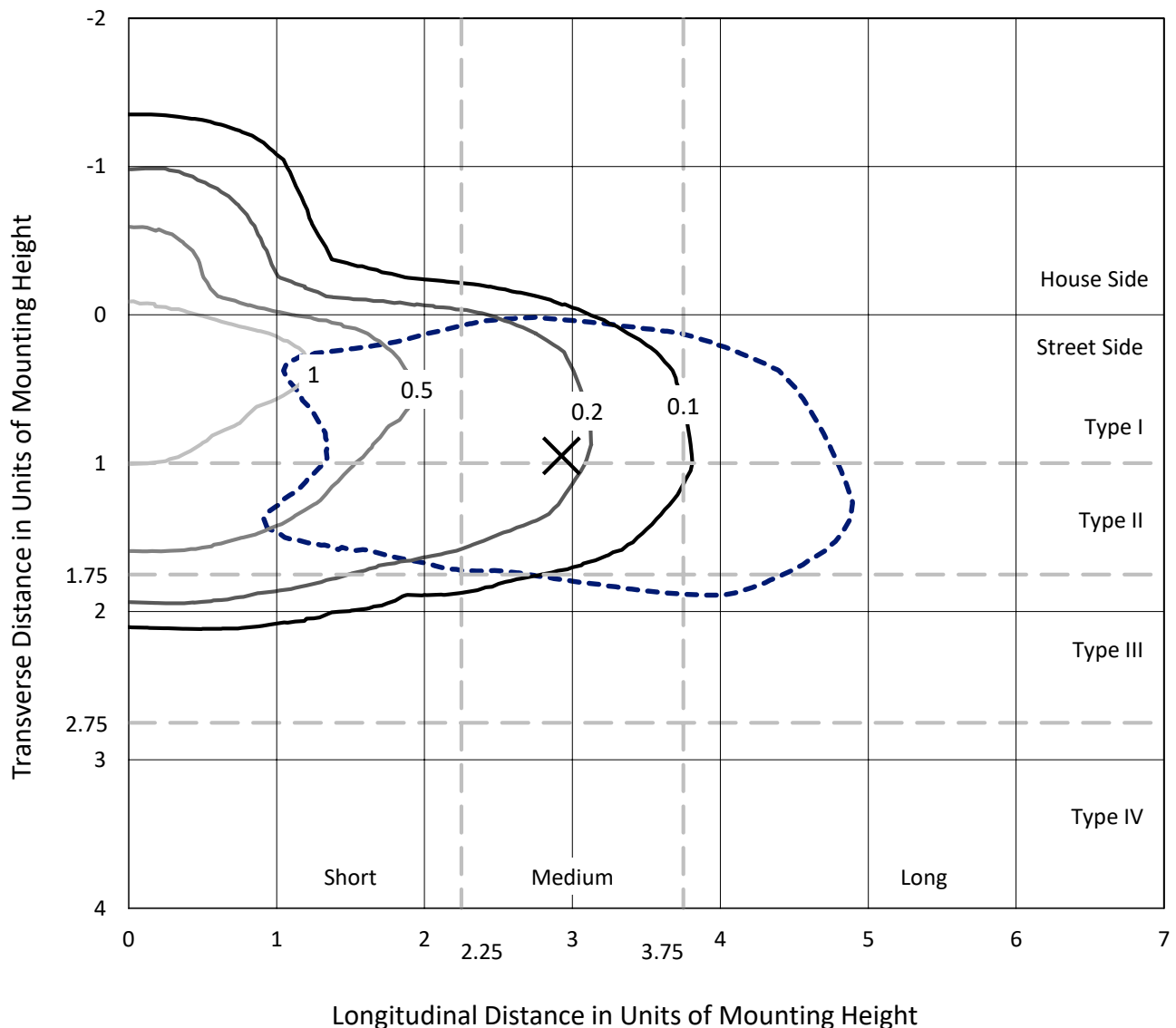
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

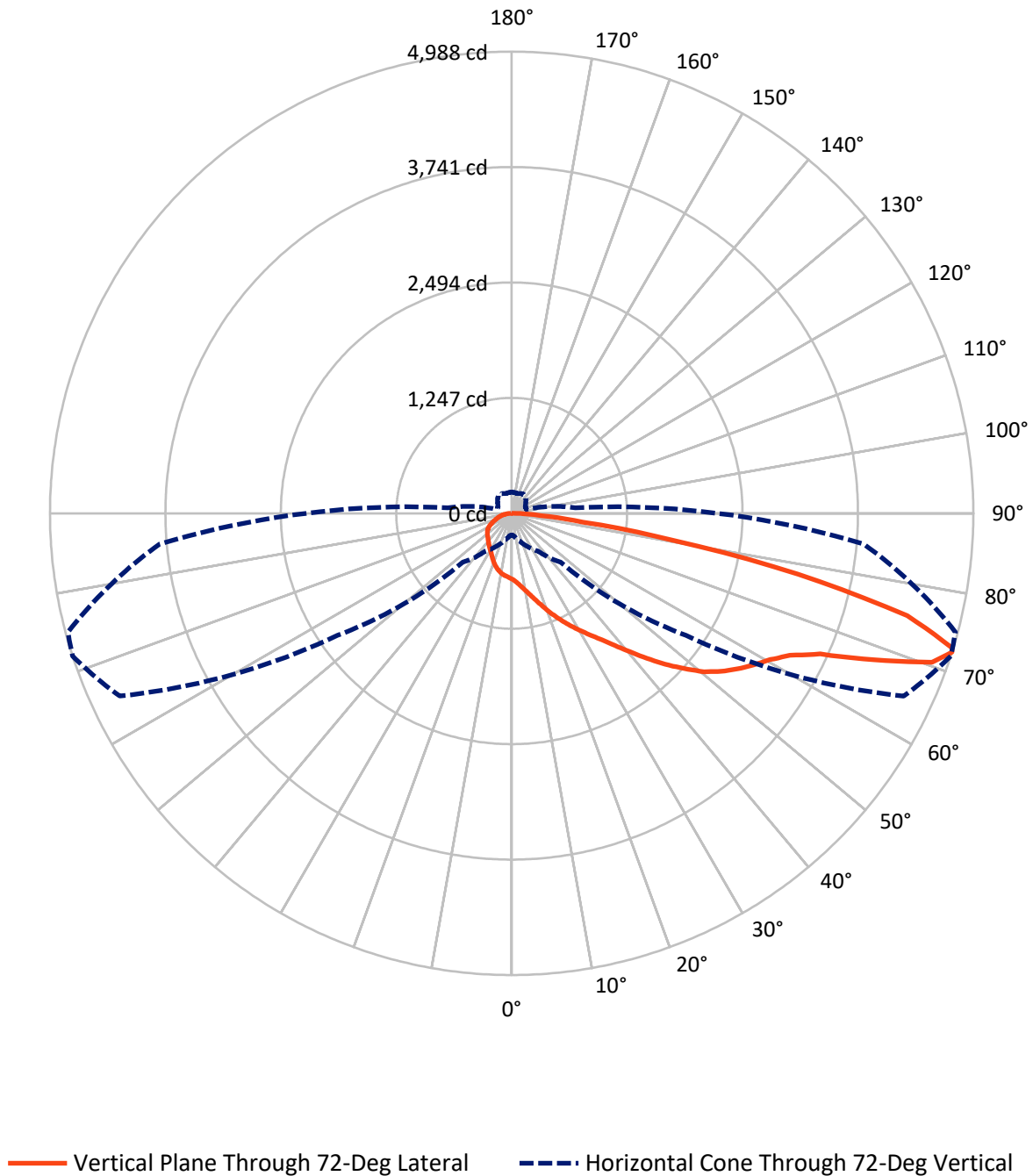
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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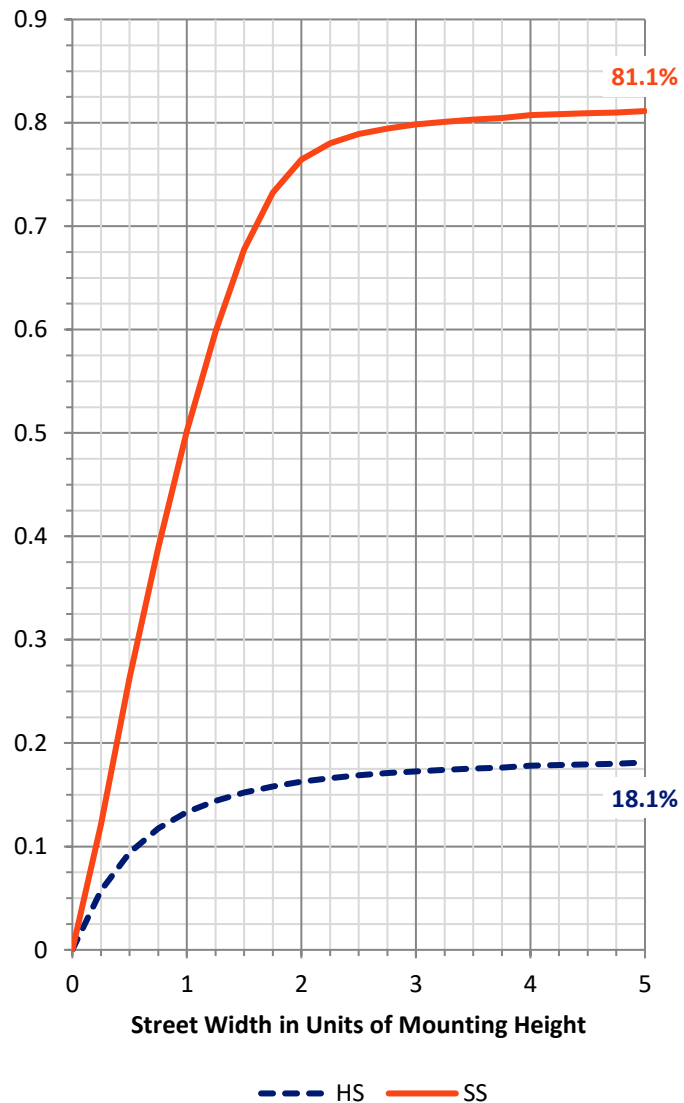
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.3	0.0	1071.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4703.7	0.0	4703.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	5775.0	0.0	5775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.2
10°-20°	230.1	4.0
20°-30°	403.1	7.0
30°-40°	597.7	10.4
40°-50°	874.2	15.1
50°-60°	1202.9	20.8
60°-70°	1339.2	23.2
70°-80°	907.4	15.7
80°-90°	149.2	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°	5775.0	100.0
0°-180°	5775.0	100.0

Coefficient of Utilization



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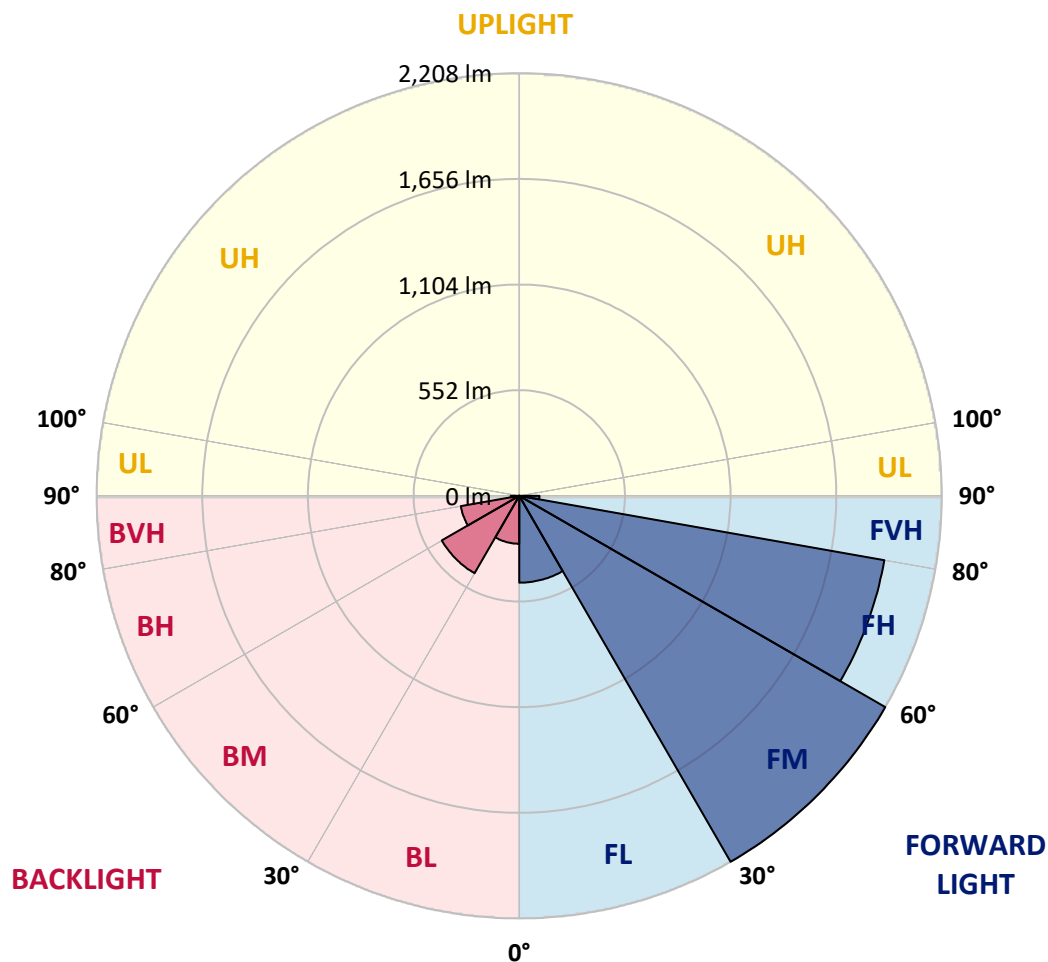
CATALOG NUMBER: GLEON-SA1C-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.9	7.9			
FM	(30°-60°)	2207.9	38.2			
FH	(60°-80°)	1936.7	33.5			G2/5000
FVH	(80°-90°)	105.2	1.8			G2/225
BL	(0°-30°)	250.4	4.3	B1/500		
BM	(30°-60°)	467.0	8.1	B1/1000		
BH	(60°-80°)	309.9	5.4	B1/500		G1/500
BVH	(80°-90°)	43.9	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°	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5
2.5°	784.8	783.7	779.5	779.5	771.5	764.8	752.0	743.5	733.3	729.8	717.8
5°	860.8	861.2	856.0	852.5	840.7	826.4	804.7	785.0	765.4	757.4	732.9
7.5°	924.6	923.8	922.4	919.5	908.5	893.8	864.6	835.4	806.3	794.4	752.2
10°	965.6	967.4	968.6	970.0	965.4	954.9	927.2	891.6	853.6	837.3	775.3
12.5°	986.3	989.5	995.0	1004.6	1012.1	1010.9	990.8	953.1	907.9	887.4	804.1
15°	998.4	1002.6	1011.3	1028.4	1049.7	1061.8	1056.5	1022.3	972.0	946.7	839.3
17.5°	1006.0	1009.3	1022.9	1045.7	1077.3	1109.6	1123.7	1095.0	1044.3	1015.5	879.7
20°	1011.1	1013.7	1030.6	1057.5	1098.4	1149.7	1189.1	1181.9	1124.1	1086.7	921.8
22.5°	1022.7	1024.9	1041.0	1068.0	1113.3	1179.6	1252.1	1262.9	1208.2	1165.8	967.0
25°	1054.9	1054.9	1068.4	1087.3	1129.8	1205.4	1305.4	1352.9	1294.1	1244.8	1008.7
27.5°	1116.3	1115.7	1120.7	1127.3	1159.5	1231.7	1352.9	1432.5	1383.2	1329.3	1049.3
30°	1189.1	1193.1	1193.7	1190.5	1205.6	1264.5	1396.9	1516.4	1472.9	1414.8	1090.9
32.5°	1282.8	1285.3	1282.4	1271.8	1269.6	1311.0	1440.0	1604.3	1569.9	1504.1	1128.8
35°	1401.7	1396.7	1387.3	1365.9	1345.4	1373.2	1489.4	1692.2	1678.9	1612.0	1181.1
37.5°	1529.1	1529.3	1517.8	1469.1	1440.8	1452.8	1557.4	1791.8	1810.7	1740.5	1248.2
40°	1631.3	1636.7	1643.9	1579.8	1543.2	1559.7	1643.9	1907.3	1966.6	1892.8	1335.4
42.5°	1702.7	1708.9	1729.2	1689.0	1651.0	1681.6	1745.7	2030.6	2141.6	2068.6	1437.7
45°	1778.3	1781.7	1796.0	1778.7	1754.4	1823.4	1860.4	2158.3	2326.7	2255.9	1552.0
47.5°	1857.8	1861.4	1876.1	1864.6	1851.8	1955.8	1980.1	2278.6	2504.1	2461.7	1674.1
50°	1956.0	1958.4	1972.4	1951.5	1955.4	2055.7	2087.1	2388.9	2690.0	2646.6	1796.6
52.5°	2090.1	2090.7	2110.0	2091.1	2072.4	2128.8	2179.1	2492.9	2835.7	2815.3	1919.1
55°	2195.1	2201.4	2264.7	2260.7	2249.9	2195.3	2256.1	2592.0	2965.8	2975.5	2049.1
57.5°	2128.0	2152.9	2281.0	2371.2	2459.1	2360.5	2360.1	2703.5	3086.7	3132.8	2192.1
60°	1863.8	1897.6	2086.3	2286.5	2561.5	2648.0	2576.0	2839.7	3208.8	3288.7	2371.2
62.5°	1331.1	1386.7	1642.5	1962.2	2421.1	2838.5	3015.5	3055.9	3374.8	3469.3	2604.1
65°	672.9	715.0	929.4	1314.6	1934.4	2714.0	3493.1	3529.1	3663.3	3747.2	2962.6
67.5°	408.8	424.7	529.3	731.2	1185.9	2114.1	3649.0	4317.9	4221.7	4266.2	3473.8
70°	301.3	313.0	378.2	485.6	682.0	1240.6	3170.6	4880.9	4817.6	4812.7	3851.6
72°	234.6	243.2	300.9	392.3	498.7	744.3	2298.1	4673.1	4988.2	4963.2	3817.0
72.5°	222.5	230.1	282.6	369.3	471.3	674.7	2066.2	4532.9	4975.9	4964.6	3772.3
75°	175.2	180.6	209.2	285.5	368.9	382.8	1132.2	3512.8	4414.2	4597.7	3392.9
77.5°	145.0	145.8	160.9	207.8	287.5	270.6	556.2	2437.3	3160.9	3362.7	2403.4
80°	118.1	119.1	126.3	145.8	217.5	200.2	264.1	1401.5	1769.7	1771.9	1143.0
82.5°	94.1	94.3	102.2	106.6	156.3	143.2	151.3	658.0	773.3	743.9	410.8
85°	66.2	64.8	99.8	87.5	102.2	91.9	83.5	260.5	319.7	305.8	128.7
87.5°	22.1	22.9	44.3	56.7	59.7	52.1	37.2	99.8	120.7	119.7	40.8
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-SA1C-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5
2.5°	714.1	707.7	698.3	688.0	679.9	671.5	665.3	662.2	658.6	655.6	659.2
5°	721.6	709.7	689.8	670.3	656.0	643.3	634.1	629.3	625.0	622.0	622.4
7.5°	733.9	714.7	681.2	652.8	632.9	619.2	609.9	606.7	603.9	603.1	604.1
10°	747.1	718.6	669.9	632.1	609.5	598.1	594.0	596.1	598.1	599.9	601.9
12.5°	762.0	722.2	653.4	607.9	588.6	584.2	588.4	597.9	604.9	609.1	611.6
15°	781.5	725.4	634.3	583.6	570.7	575.7	589.8	606.3	618.4	626.2	627.4
17.5°	799.4	725.2	609.9	559.2	556.2	570.7	592.0	615.2	631.5	642.5	644.7
20°	817.9	719.8	581.4	535.3	541.5	565.3	593.0	621.0	640.7	653.4	656.4
22.5°	835.2	710.5	550.2	513.6	529.1	558.2	589.2	617.6	637.3	647.6	650.8
25°	846.9	694.2	518.6	495.3	518.2	549.4	576.9	599.7	614.4	619.6	620.4
27.5°	852.8	672.9	488.8	479.4	506.9	535.1	554.0	565.3	569.5	569.1	568.3
30°	853.6	644.9	463.1	466.5	493.7	514.0	523.0	520.8	515.4	506.3	507.1
32.5°	851.1	613.2	441.6	454.2	477.0	488.4	488.8	478.2	463.9	449.4	445.4
35°	851.9	582.2	422.7	440.2	456.7	461.7	457.1	441.6	422.1	403.5	399.5
37.5°	860.6	555.2	406.4	424.1	434.3	435.5	428.9	412.6	398.3	380.0	378.4
40°	881.5	535.9	390.9	406.0	411.8	412.4	403.1	391.5	392.7	383.0	382.8
42.5°	919.1	527.5	377.2	387.2	390.7	391.9	384.8	377.4	387.7	381.4	379.2
45°	967.6	529.5	365.7	368.7	375.2	380.8	376.4	367.5	371.4	343.8	334.7
47.5°	1023.7	542.3	356.5	352.8	364.1	374.6	367.9	354.3	340.2	312.8	307.6
50°	1089.3	561.9	348.2	337.0	352.0	366.3	359.5	340.2	318.9	305.6	303.8
52.5°	1157.7	586.0	339.8	319.7	336.6	359.9	356.5	337.0	310.8	297.7	295.3
55°	1235.2	610.3	329.3	299.7	320.1	356.9	355.1	325.5	304.6	297.3	295.5
57.5°	1331.7	637.9	315.4	278.8	304.6	346.2	340.6	318.6	298.3	292.7	292.1
60°	1457.3	678.7	295.3	256.5	285.7	329.7	328.5	308.4	288.1	284.2	283.4
62.5°	1645.8	746.1	267.6	234.2	264.7	301.6	312.6	294.7	277.4	277.2	277.6
65°	1938.1	847.5	237.6	214.8	243.4	278.0	294.1	280.6	266.5	270.4	271.0
67.5°	2277.0	931.6	208.2	195.7	221.7	255.5	277.4	266.5	251.9	262.3	262.5
70°	2389.7	856.4	182.3	176.8	199.2	233.8	259.3	250.9	236.2	246.6	245.6
72°	2223.9	691.4	165.6	162.5	182.3	215.9	243.2	236.4	221.9	228.9	226.3
72.5°	2171.6	659.2	161.5	158.9	177.8	211.4	239.0	232.8	218.3	224.3	221.9
75°	1937.2	572.5	138.8	139.4	155.1	189.1	215.5	213.6	198.6	199.2	198.4
77.5°	1405.0	419.8	116.9	120.9	132.0	166.2	191.9	190.7	174.4	171.4	170.8
80°	652.0	214.2	95.2	97.0	108.6	139.0	163.7	162.1	148.9	145.2	143.0
82.5°	223.3	101.8	71.6	72.8	84.1	112.0	142.0	141.0	130.0	122.7	118.1
85°	79.7	50.7	50.1	48.9	60.1	88.1	123.7	118.3	102.2	87.1	86.7
87.5°	25.8	21.7	25.8	25.7	35.0	59.7	89.9	76.6	74.2	61.6	60.4
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
 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

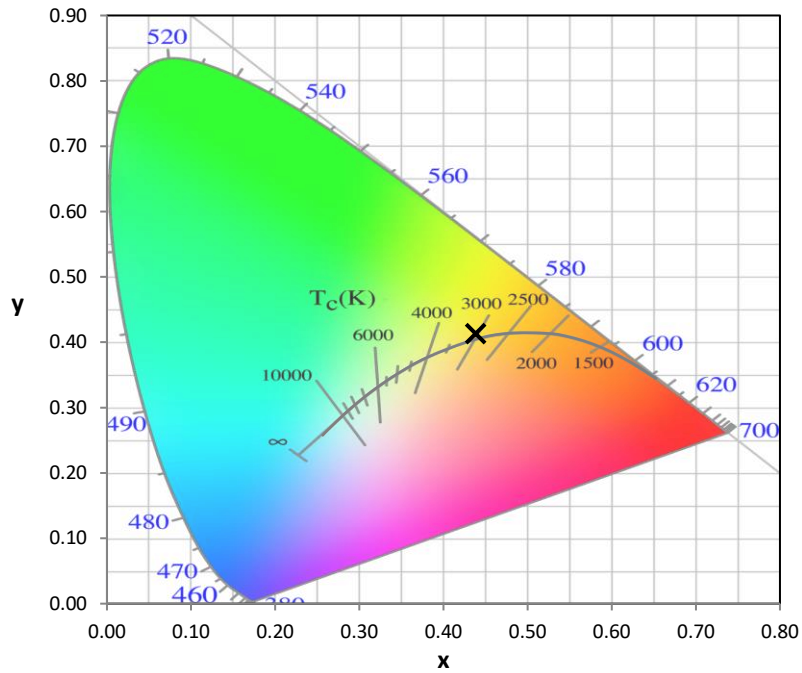
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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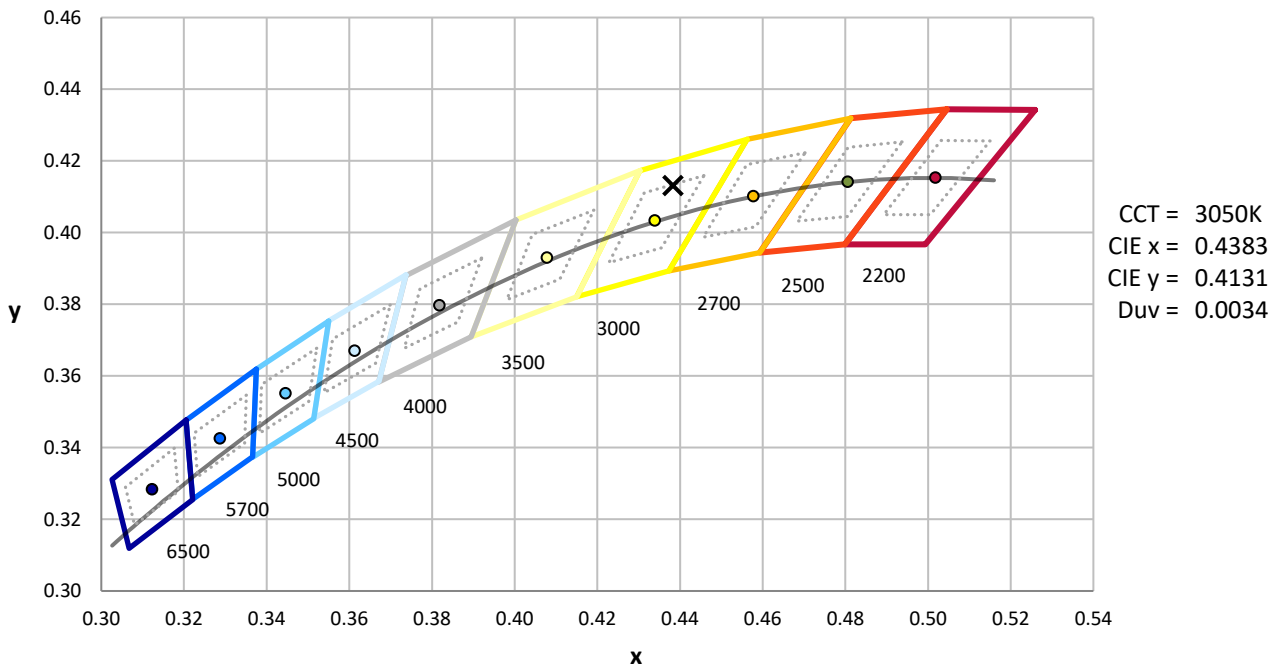
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

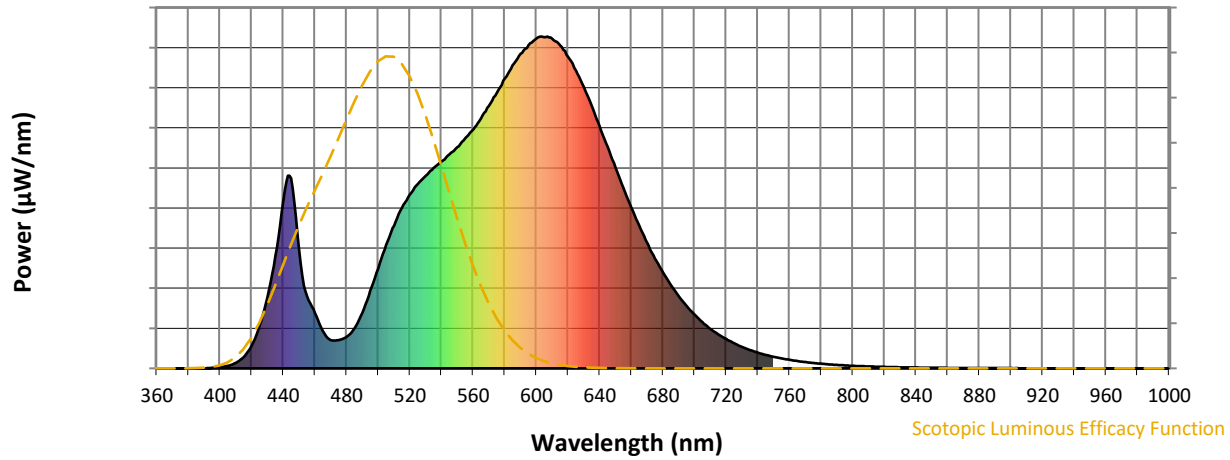


Photopic Lumens: NR

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



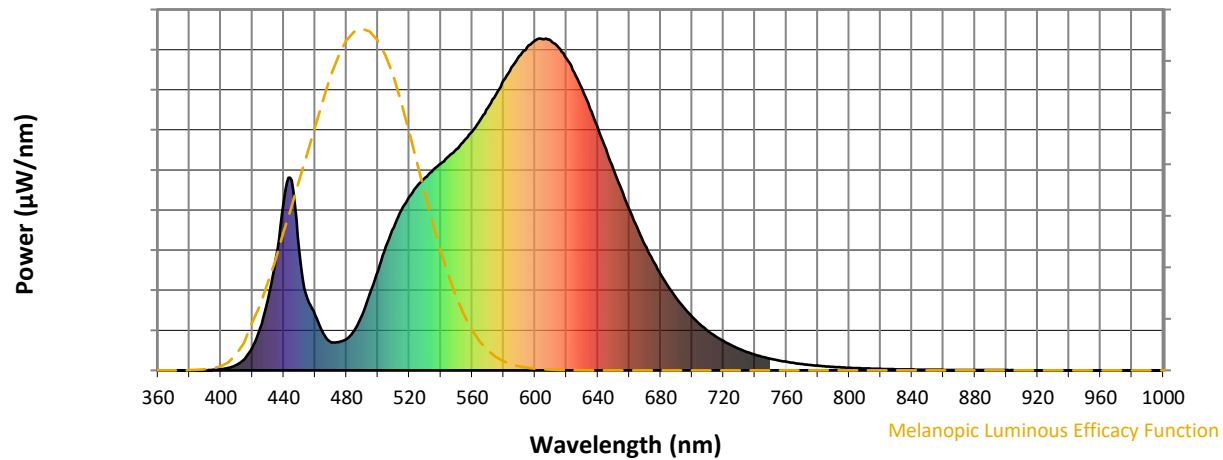
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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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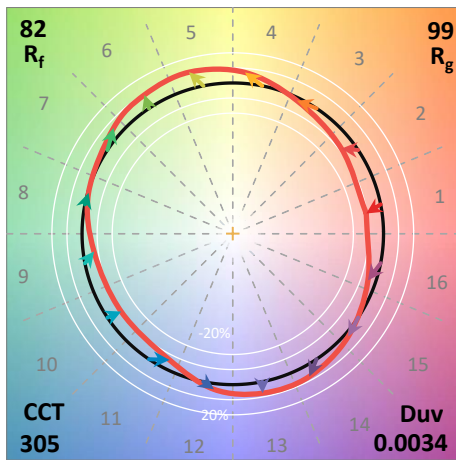
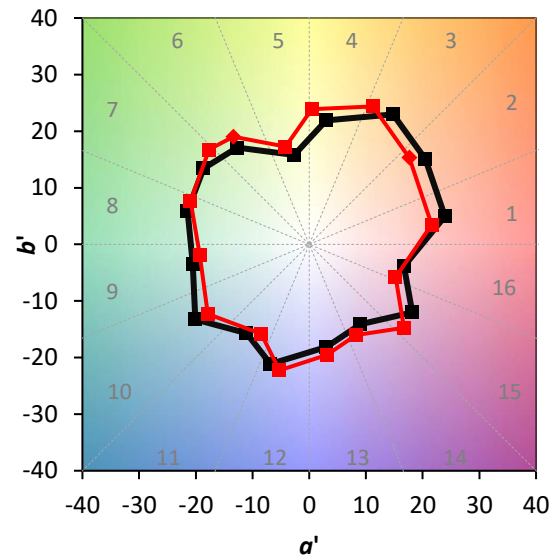
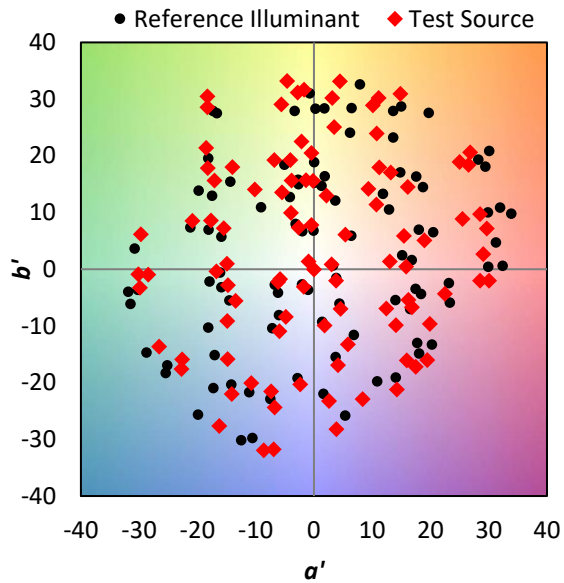
TM-30-18

Summary

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

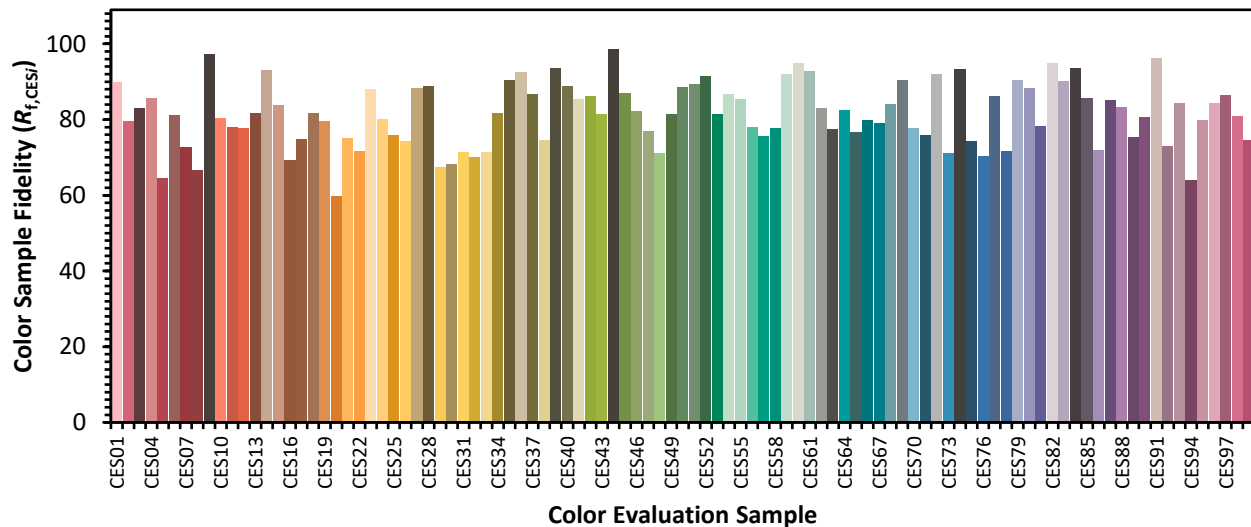


Color Vector Graphics

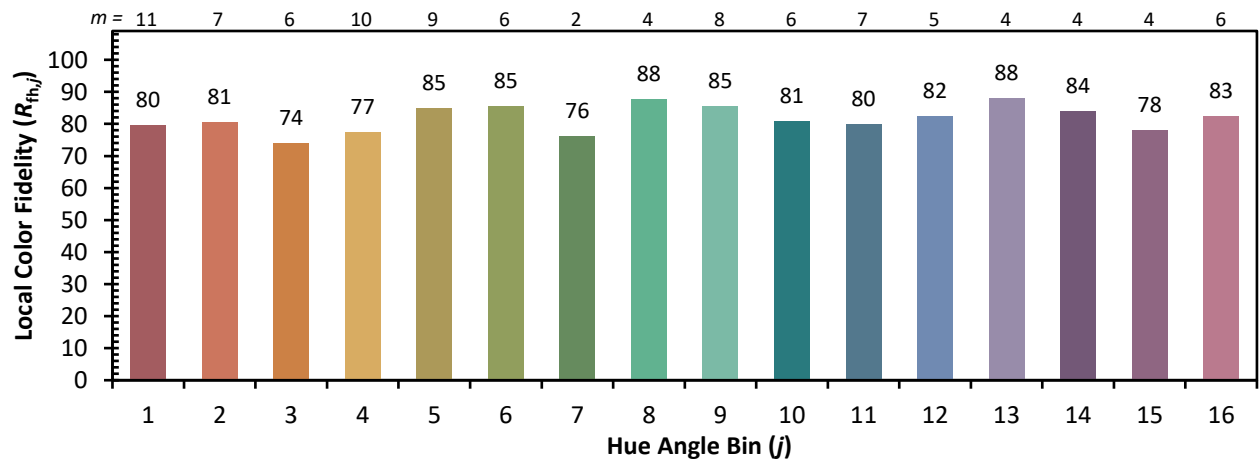
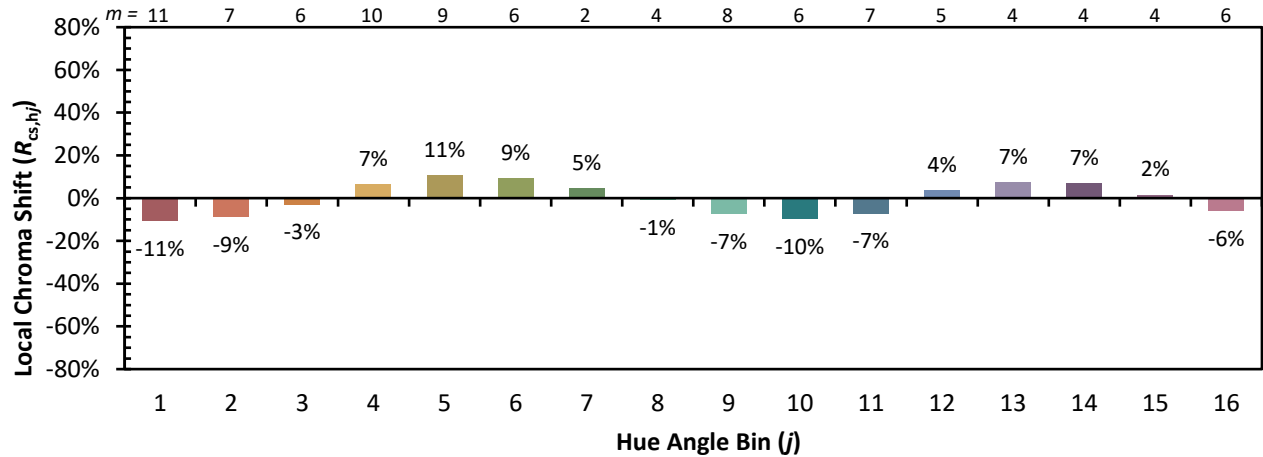


Individual Sample Fidelity Index ($R_{f,i}$)

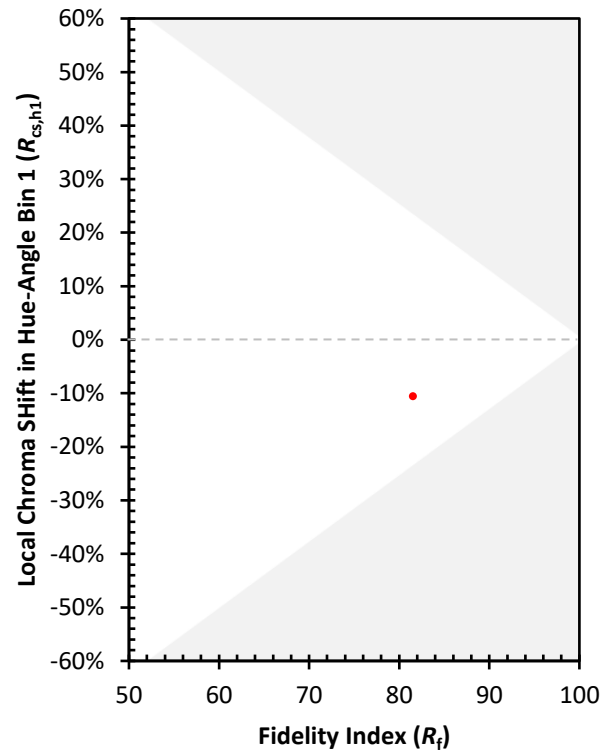
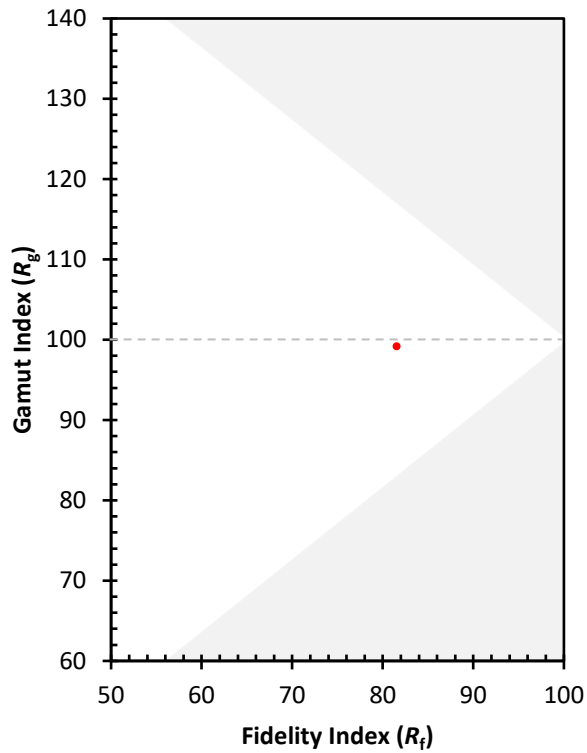
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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