

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P321130

Luminaire Tested: **GLEON-SA6C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34488 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

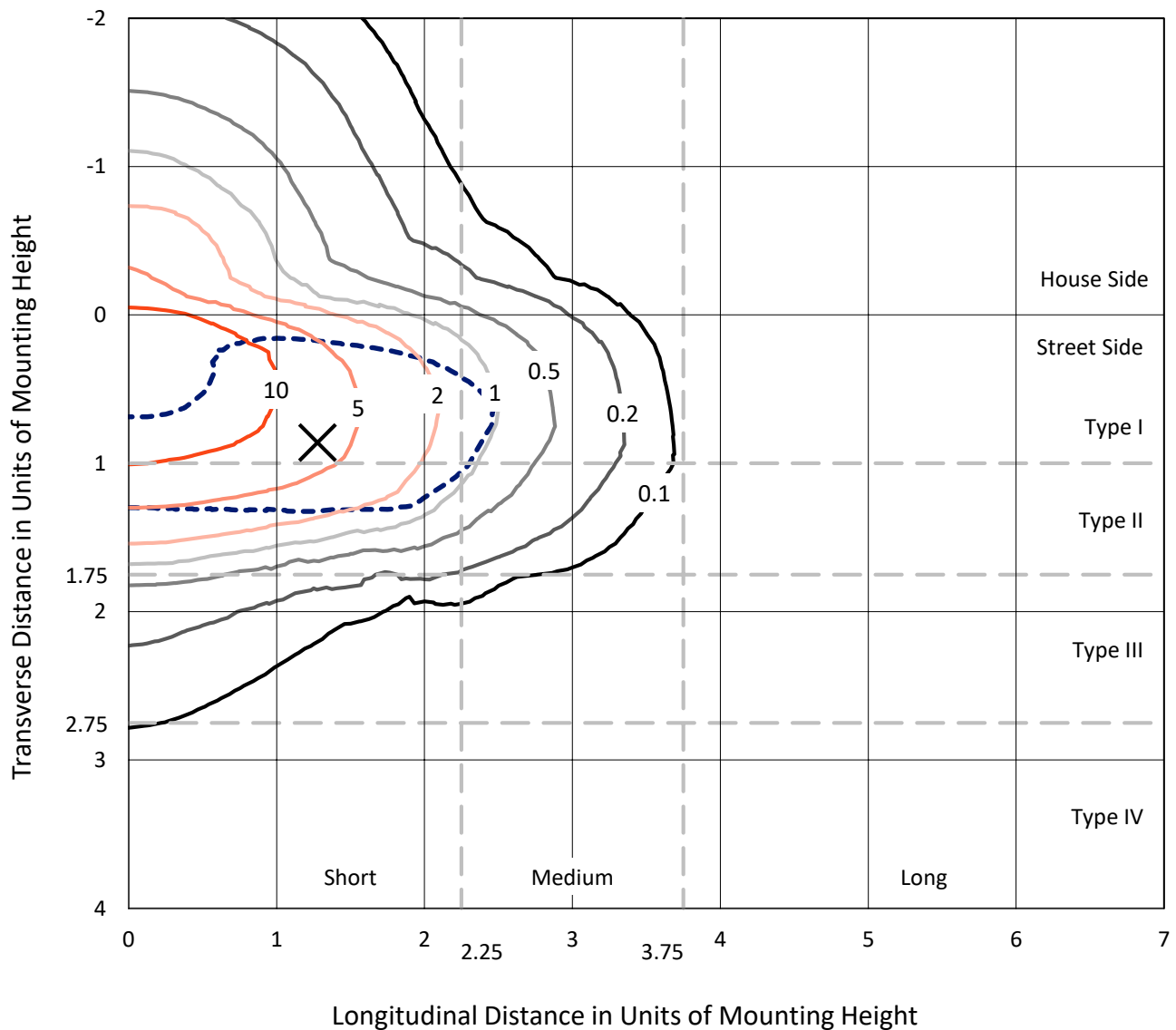
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

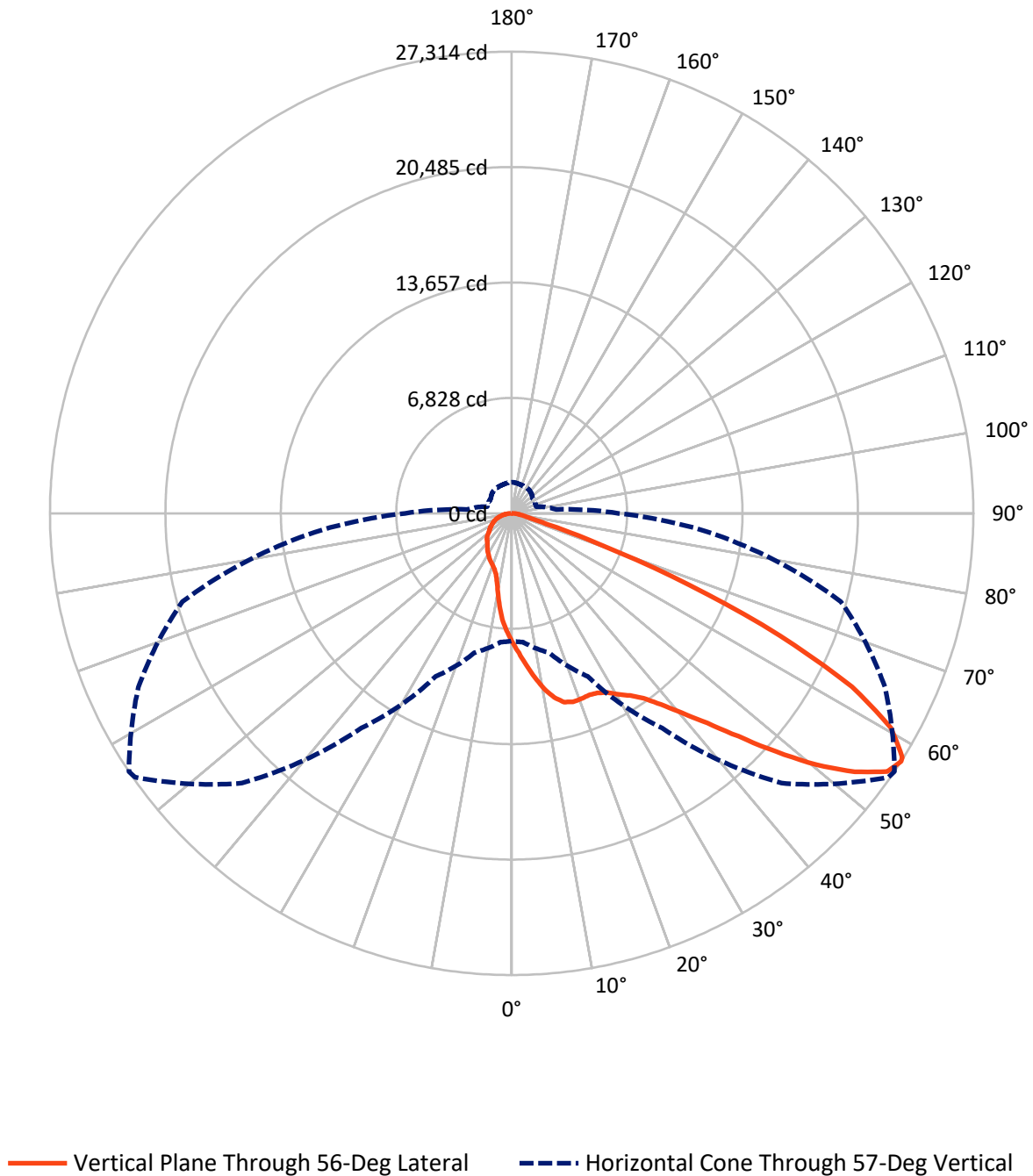
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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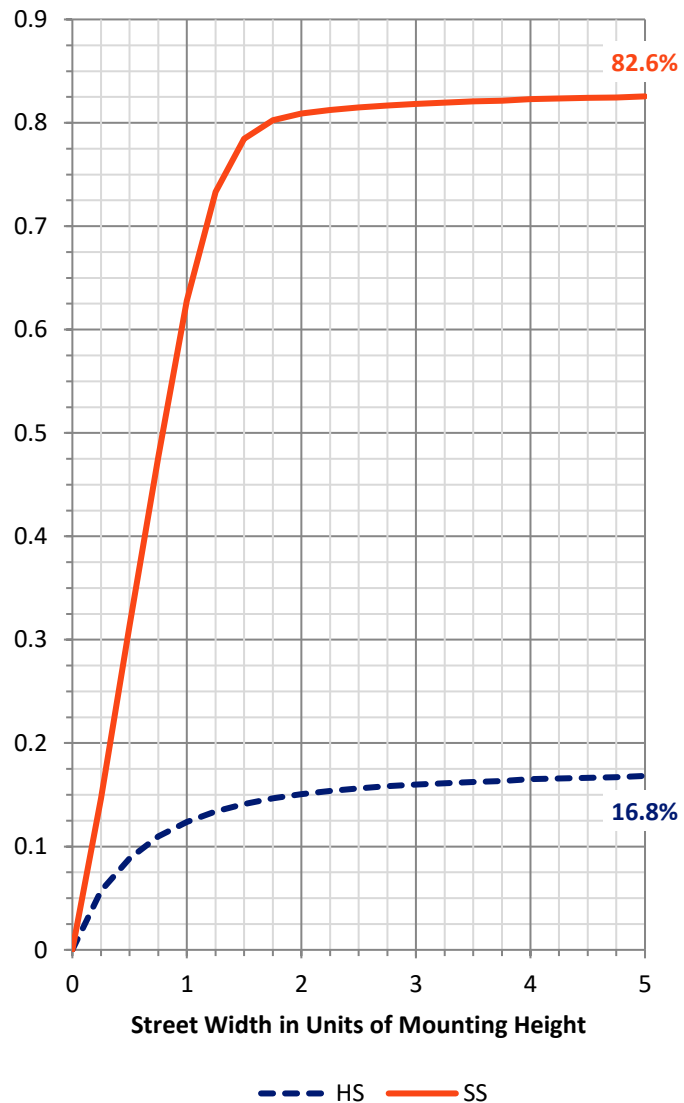
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5945.0	0.0	5945.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	28543.0	0.0	28543.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	34488.0	0.0	34488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.7	2.1
10°-20°	2065.9	6.0
20°-30°	3365.0	9.8
30°-40°	5030.2	14.6
40°-50°	7629.8	22.1
50°-60°	8551.7	24.8
60°-70°	5051.0	14.6
70°-80°	1654.9	4.8
80°-90°	408.9	1.2
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°	34488.0	100.0
0°-180°	34488.0	100.0

Coefficient of Utilization



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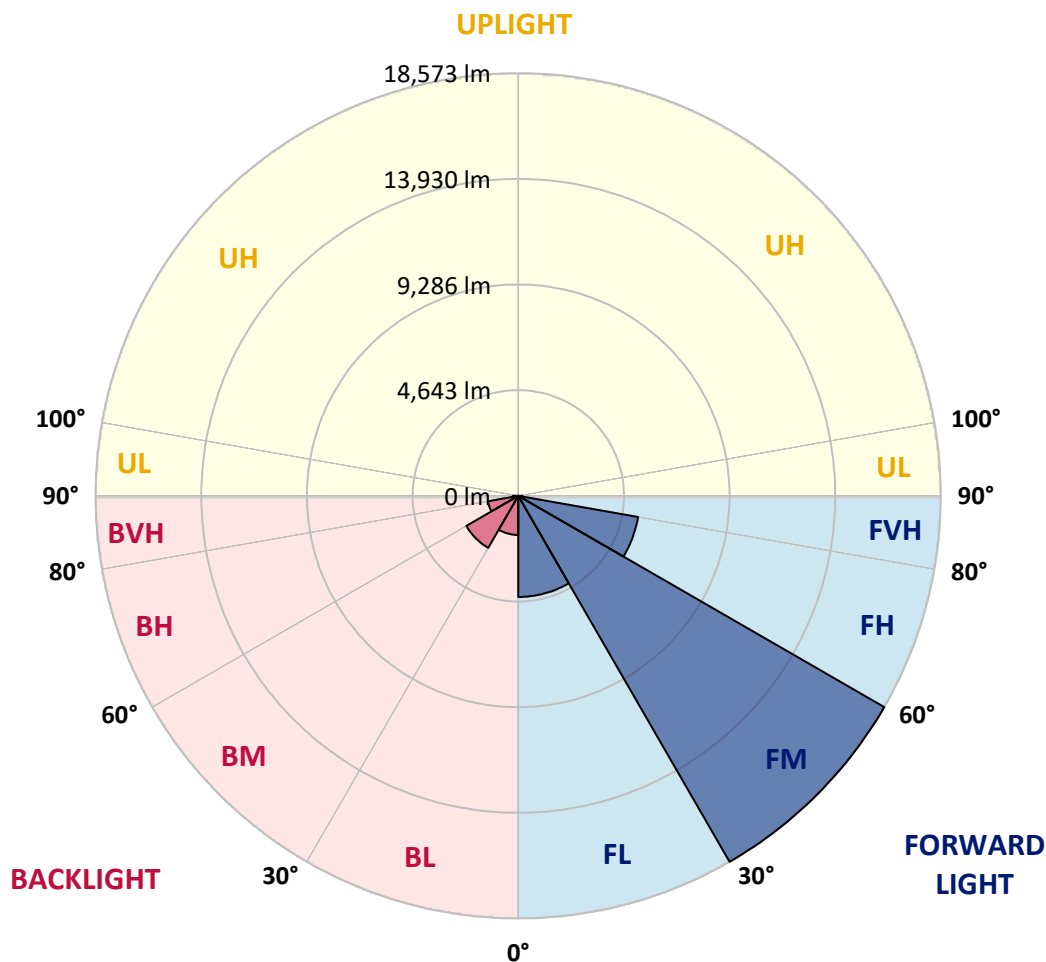
CATALOG NUMBER: GLEON-SA6C-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4442.6	12.9			
FM	(30°-60°)	18572.9	53.9			
FH	(60°-80°)	5347.5	15.5			G3/7500
FVH	(80°-90°)	180.0	0.5			G2/225
BL	(0°-30°)	1719.0	5.0	B3/2500		
BM	(30°-60°)	2638.8	7.7	B3/5000		
BH	(60°-80°)	1358.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	228.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5
2.5°	8783.7	8864.3	8828.8	8705.5	8610.7	8476.8	8327.4	8282.4	8124.7	7948.1	7736.0
5°	10174.0	10133.7	10075.6	9883.6	9681.0	9445.1	9070.6	9011.3	8660.5	8261.0	7839.1
7.5°	10965.7	10962.2	10927.8	10815.2	10630.3	10322.2	9870.6	9800.7	9270.9	8628.5	7974.2
10°	10850.8	10842.5	10899.4	11016.7	11072.4	11008.4	10628.0	10558.0	9907.3	9035.0	8130.7
12.5°	10197.7	10202.5	10293.7	10540.2	10875.7	11278.6	11217.0	11182.6	10567.5	9494.9	8320.3
15°	9689.2	9699.9	9772.2	9986.7	10382.6	11113.9	11574.9	11586.8	11206.3	10002.1	8541.9
17.5°	9466.4	9488.9	9522.1	9672.7	10035.3	10785.6	11660.3	11724.3	11765.8	10528.4	8755.3
20°	9537.5	9558.9	9568.4	9664.4	9961.9	10586.5	11601.0	11716.0	12194.8	11023.8	8968.6
22.5°	9856.4	9869.4	9875.3	9900.2	10131.3	10643.4	11561.9	11682.8	12505.4	11468.3	9129.8
25°	10385.0	10375.5	10337.6	10305.6	10460.8	10868.6	11652.0	11767.0	12757.8	11871.3	9235.3
27.5°	11017.9	11006.0	10932.6	10844.8	10933.7	11219.4	11911.6	12002.8	12984.2	12248.2	9288.6
30°	11777.6	11746.8	11608.1	11503.8	11538.2	11745.6	12339.4	12422.4	13333.8	12676.0	9340.8
32.5°	12655.9	12622.7	12422.4	12249.3	12249.3	12422.4	12780.3	12849.1	13630.1	13159.6	9424.9
35°	13755.8	13714.3	13453.5	13163.2	13081.4	13169.1	13381.2	13429.8	14163.5	13768.8	9577.8
37.5°	15052.4	14996.7	14658.9	14270.2	14091.2	14086.5	14239.3	14338.9	15015.7	14568.8	9837.4
40°	16352.6	16313.5	16018.4	15712.6	15361.8	15249.2	15485.0	15515.8	16129.8	15562.1	10169.3
42.5°	17357.7	17350.6	17296.1	17336.3	16977.2	16749.7	16934.6	16959.4	17490.4	16637.1	10522.5
45°	17888.7	17900.5	18164.8	18750.3	18883.1	18717.1	18808.4	18815.5	19045.4	17721.5	10846.0
47.5°	17463.2	17524.8	18193.3	19502.9	20589.8	21140.9	20989.2	21076.9	20553.1	18653.1	11099.7
50°	15805.0	15880.9	17018.7	19167.5	21386.3	23486.5	23407.1	23386.9	21769.1	19335.8	11237.2
52.5°	13751.0	13810.3	14749.0	17424.1	20802.0	24783.1	25512.1	25407.8	22850.0	19846.7	11263.2
55°	10623.2	10715.7	11615.2	13944.2	18438.6	24287.7	27060.0	26966.3	23835.0	20114.5	11232.4
57°	7552.3	7649.5	8543.1	10642.2	15511.1	22572.7	27214.0	27313.6	24367.1	20159.6	11266.8
57.5°	6739.2	6838.8	7724.1	9762.7	14598.5	21952.8	27081.3	27247.2	24463.1	20152.5	11285.8
60°	3393.3	3431.2	3995.4	5449.7	9228.2	17747.6	25349.7	25777.6	24549.7	19804.0	11367.5
62.5°	2109.7	2082.4	2064.7	2510.3	4489.6	11769.3	21776.2	22600.0	22893.9	18960.1	11169.6
65°	1854.9	1803.9	1608.4	1572.8	1982.9	5716.4	16398.8	17424.1	19356.0	17630.3	10697.9
67.5°	1742.3	1692.5	1472.1	1339.3	1340.5	2266.2	10181.1	11335.5	15078.5	15381.9	9584.9
70°	1626.1	1581.1	1374.9	1218.4	1141.4	1255.2	4684.0	5559.9	9829.1	12090.5	8011.0
72.5°	1476.8	1446.0	1250.4	1089.2	1007.4	939.9	1793.3	2118.0	5690.3	8120.0	5563.5
75°	1320.3	1291.9	1124.8	970.7	871.1	739.6	1009.8	1088.0	2890.8	4154.2	2739.1
77.5°	1148.5	1131.9	1000.3	858.1	778.7	612.8	714.7	752.6	1239.7	1781.4	1373.7
80°	913.8	945.8	874.7	764.5	691.0	490.7	506.1	531.0	721.8	870.0	779.9
82.5°	595.0	650.7	685.1	621.1	568.9	386.4	363.9	374.5	470.5	531.0	339.0
85°	247.7	278.5	450.4	406.5	378.1	282.1	244.2	248.9	291.6	302.2	138.7
87.5°	110.2	117.3	197.9	186.1	160.0	97.2	104.3	113.8	155.3	147.0	53.3
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-SA6C-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5	7649.5
2.5°	7656.6	7557.0	7386.3	7197.9	7043.8	6920.6	6796.1	6710.8	6611.2	6557.9	6530.6
5°	7662.5	7466.9	7107.8	6739.2	6409.7	6108.7	5821.8	5601.4	5395.2	5283.8	5252.9
7.5°	7687.4	7393.5	6812.7	6205.9	5620.4	5085.8	4673.4	4415.0	4228.9	4145.9	4122.2
10°	7707.5	7306.9	6447.6	5549.2	4752.8	4211.1	3891.1	3746.5	3682.5	3671.8	3661.2
12.5°	7755.0	7218.0	6063.6	4864.2	4078.4	3703.8	3592.4	3582.9	3600.7	3626.8	3626.8
15°	7829.6	7130.3	5625.1	4276.3	3649.3	3517.8	3540.3	3592.4	3641.0	3681.3	3687.2
17.5°	7884.1	7022.5	5153.4	3805.8	3420.6	3456.1	3536.7	3610.2	3660.0	3699.1	3702.7
20°	7923.3	6855.4	4649.7	3446.6	3289.0	3399.2	3500.0	3565.2	3599.5	3638.7	3644.6
22.5°	7903.1	6631.4	4202.8	3189.5	3182.3	3316.3	3412.3	3490.5	3464.4	3426.5	3451.4
25°	7805.9	6323.2	3743.0	2997.4	3069.7	3204.9	3323.4	3271.2	3183.5	3166.9	3176.4
27.5°	7632.9	5929.7	3317.5	2819.7	2939.4	3101.7	3094.6	3042.5	3011.7	2990.3	3003.4
30°	7446.8	5503.0	2945.3	2664.4	2794.8	2928.7	2901.4	2900.3	2869.4	2835.1	2851.7
32.5°	7263.1	5074.0	2650.2	2536.4	2685.7	2703.5	2762.8	2780.5	2720.1	2647.8	2643.1
35°	7103.1	4668.6	2426.2	2420.2	2554.2	2556.5	2643.1	2618.2	2467.6	2393.0	2393.0
37.5°	6983.4	4264.5	2255.5	2315.9	2381.1	2442.8	2486.6	2383.5	2358.6	2317.1	2315.9
40°	6931.2	3908.9	2148.8	2236.5	2259.0	2337.3	2224.7	2265.0	2276.8	2255.5	2255.5
42.5°	6876.7	3599.5	2056.4	2176.1	2172.5	2161.9	2105.0	2157.1	2204.5	2205.7	2202.2
45°	6822.2	3332.9	1974.6	2046.9	2096.7	1981.7	1992.4	2048.1	2114.4	2138.2	2138.2
47.5°	6761.7	3121.9	1899.9	1910.6	1987.6	1910.6	1902.3	1945.0	2023.2	2061.1	2069.4
50°	6629.0	2932.3	1814.6	1790.9	1812.2	1838.3	1845.4	1865.6	1952.1	2012.5	2026.7
52.5°	6445.3	2762.8	1705.5	1680.7	1680.7	1779.0	1812.2	1818.1	1891.6	1963.9	1978.1
55°	6292.4	2654.9	1592.9	1588.2	1583.5	1716.2	1773.1	1782.6	1833.5	1890.4	1897.6
57°	6303.0	2646.6	1506.4	1511.2	1510.0	1652.2	1736.4	1756.5	1782.6	1831.2	1839.5
57.5°	6309.0	2652.5	1487.5	1489.8	1488.6	1634.4	1725.7	1748.2	1768.4	1819.3	1827.6
60°	6397.9	2668.0	1410.4	1384.3	1390.3	1539.6	1665.2	1693.7	1706.7	1774.3	1785.0
62.5°	6266.3	2599.2	1348.8	1286.0	1286.0	1440.1	1581.1	1626.1	1646.3	1737.5	1755.3
65°	5884.7	2406.0	1276.5	1174.6	1186.4	1340.5	1480.4	1553.8	1584.7	1698.4	1717.4
67.5°	5295.6	2182.0	1199.5	1075.0	1086.9	1236.2	1376.1	1455.5	1504.1	1655.8	1671.2
70°	4528.8	1908.2	1095.2	969.5	983.7	1122.4	1252.8	1342.9	1415.2	1615.5	1620.2
72.5°	3338.8	1564.5	949.4	853.4	868.8	989.7	1128.3	1232.6	1329.8	1514.7	1512.4
75°	1985.3	1223.2	788.2	736.0	746.7	859.3	1015.7	1142.6	1288.3	1475.6	1498.1
77.5°	1204.2	920.9	642.4	616.3	629.4	744.3	935.1	1070.3	1270.6	1391.5	1384.3
80°	727.7	657.8	513.2	496.6	509.6	636.5	865.2	1015.7	1110.6	1188.8	1188.8
82.5°	380.5	401.8	376.9	363.9	381.6	516.8	787.0	886.6	981.4	842.7	787.0
85°	155.3	209.8	228.7	227.6	238.2	357.9	679.1	758.5	632.9	600.9	615.1
87.5°	52.2	88.9	111.4	96.0	100.7	225.2	470.5	366.2	435.0	303.4	288.0
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

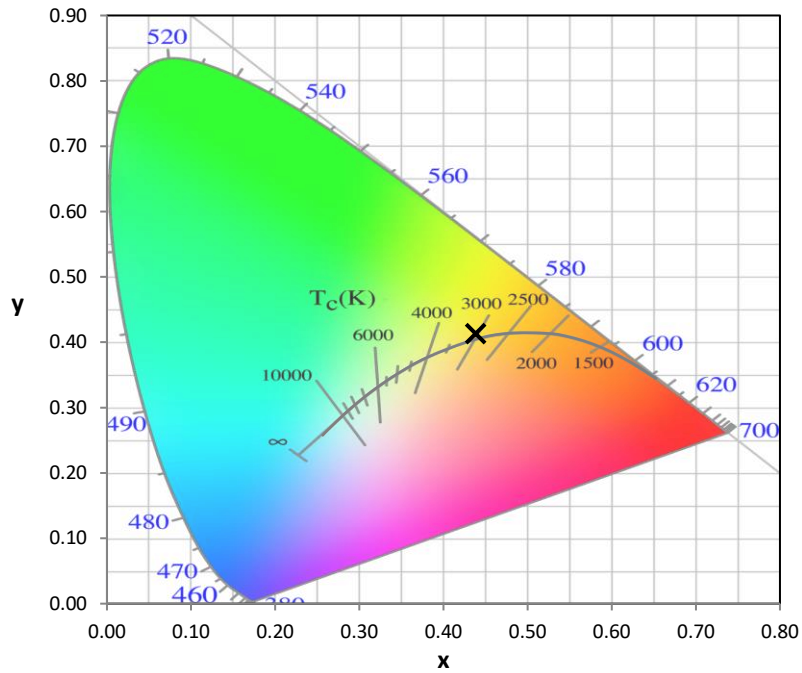
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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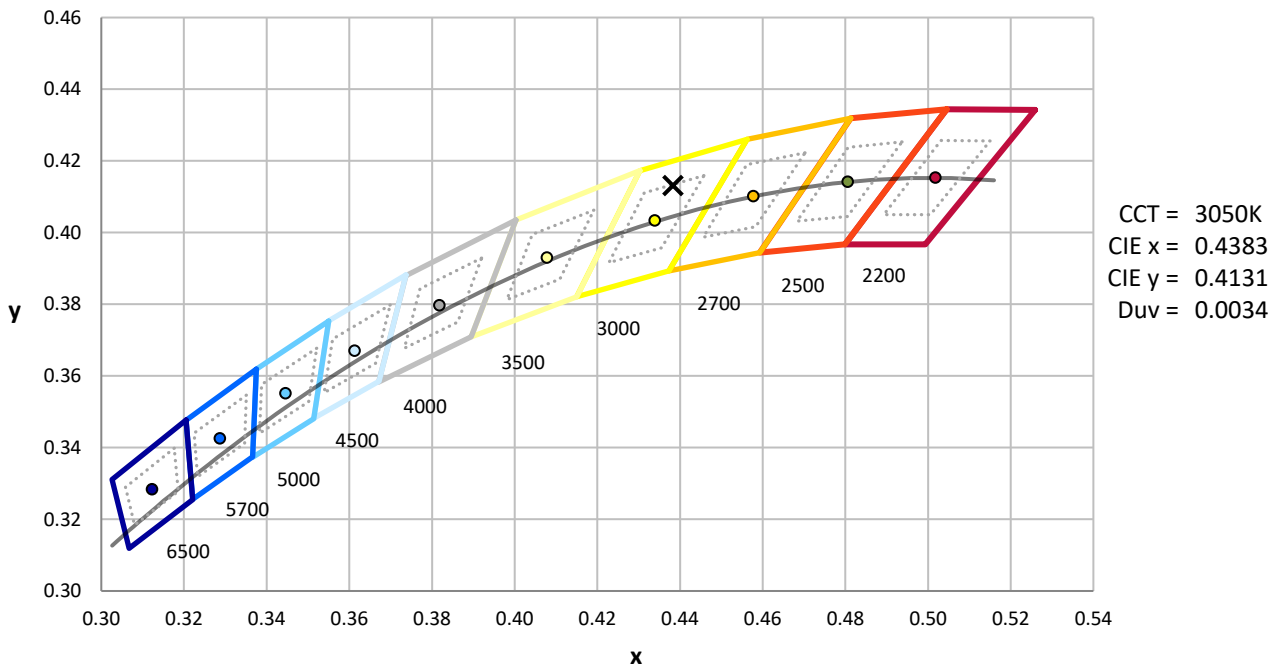
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

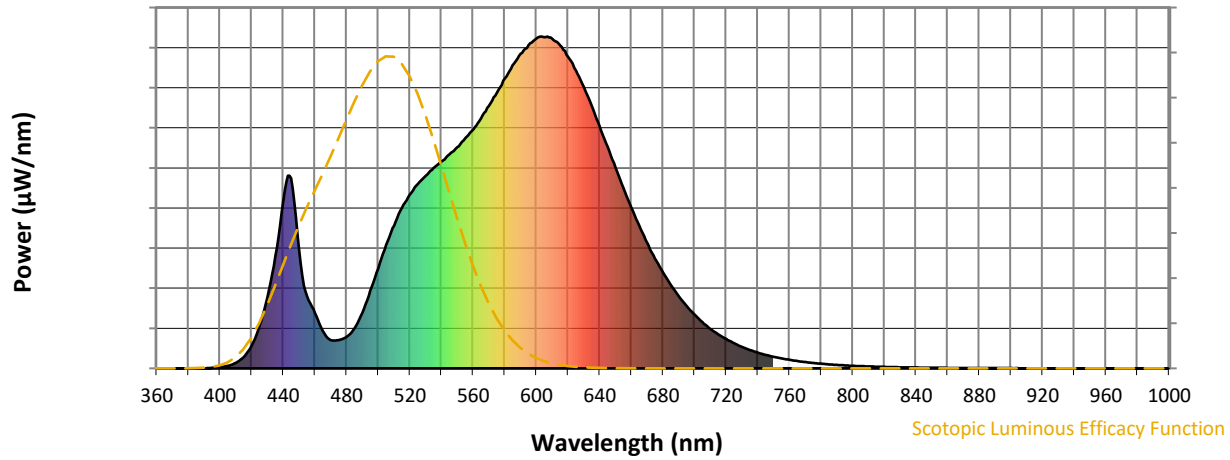


Photopic Lumens: NR

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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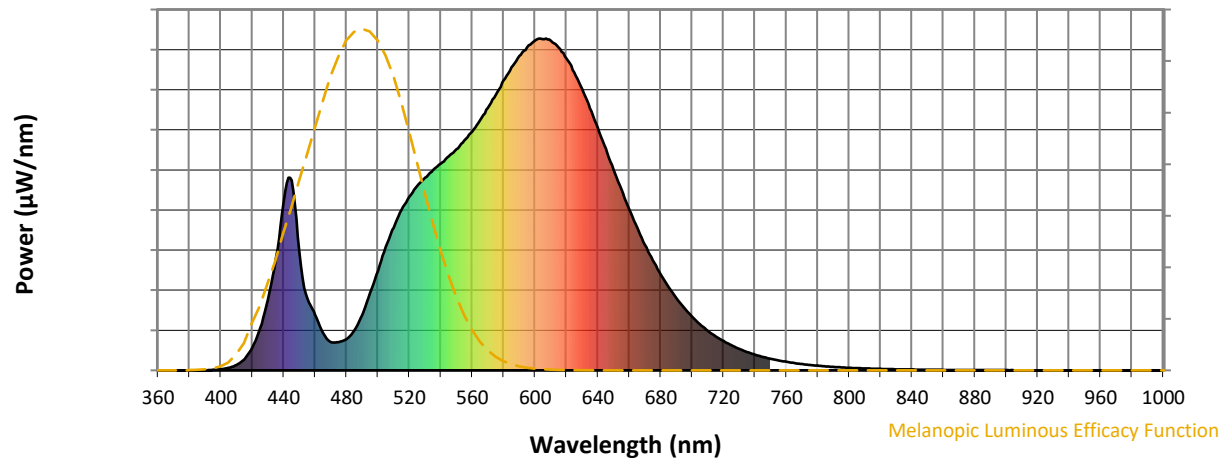
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

λ (nm)	Power 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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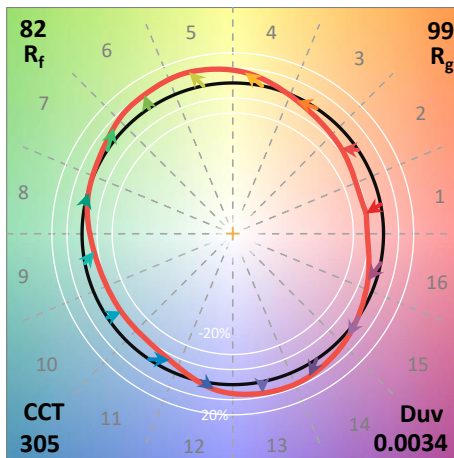
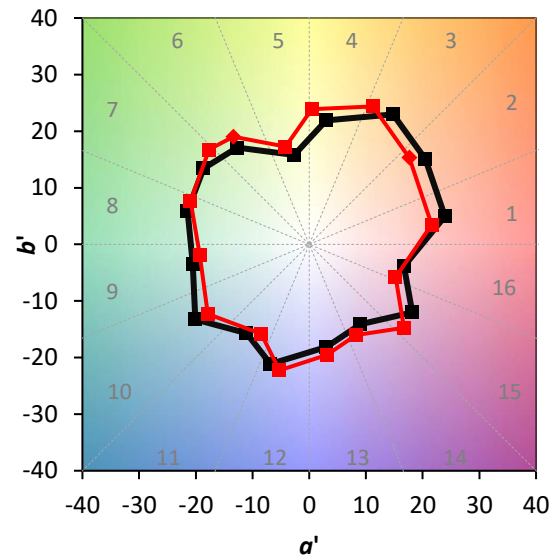
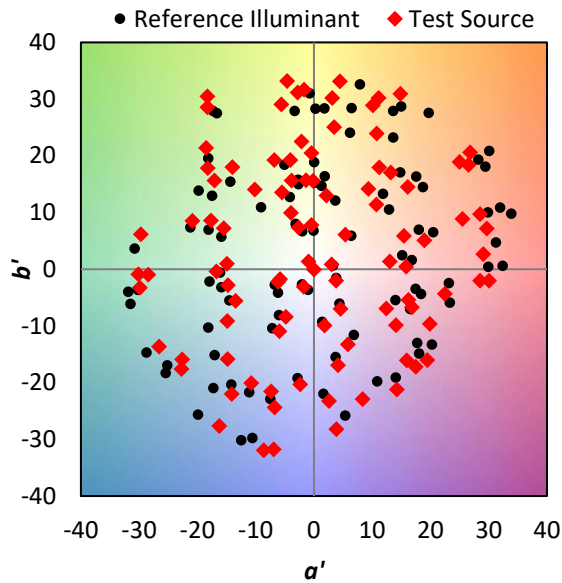
TM-30-18

Summary

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

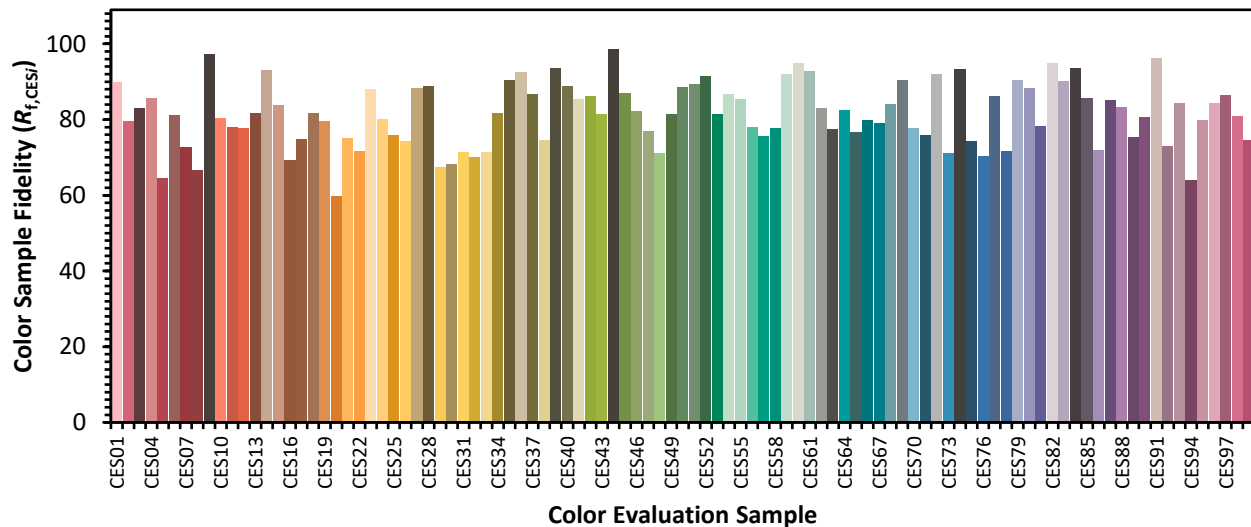


Color Vector Graphics

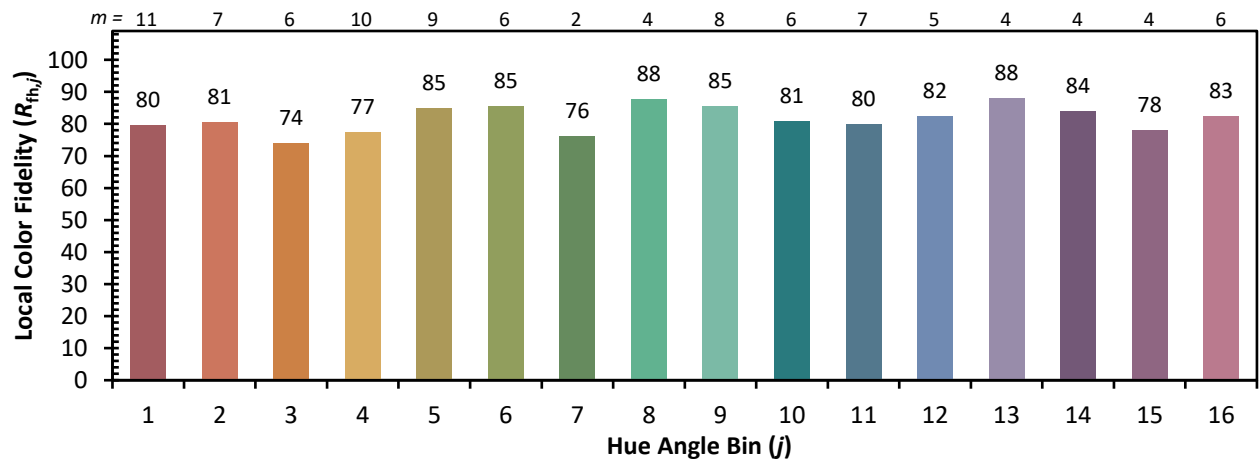
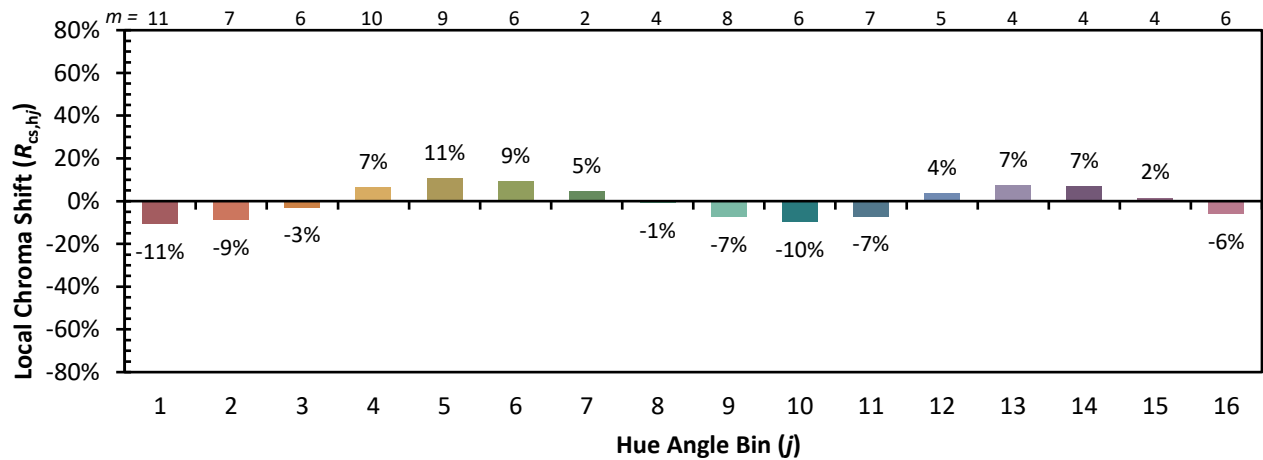


Individual Sample Fidelity Index ($R_{f,i}$)

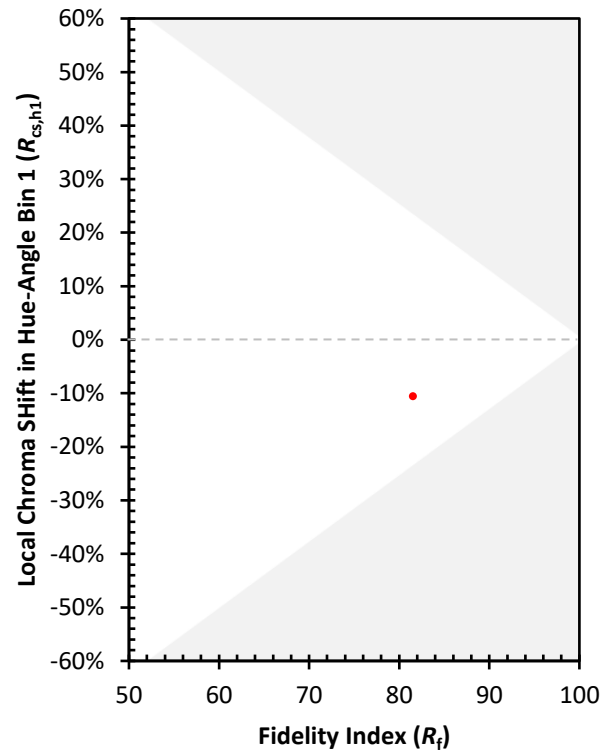
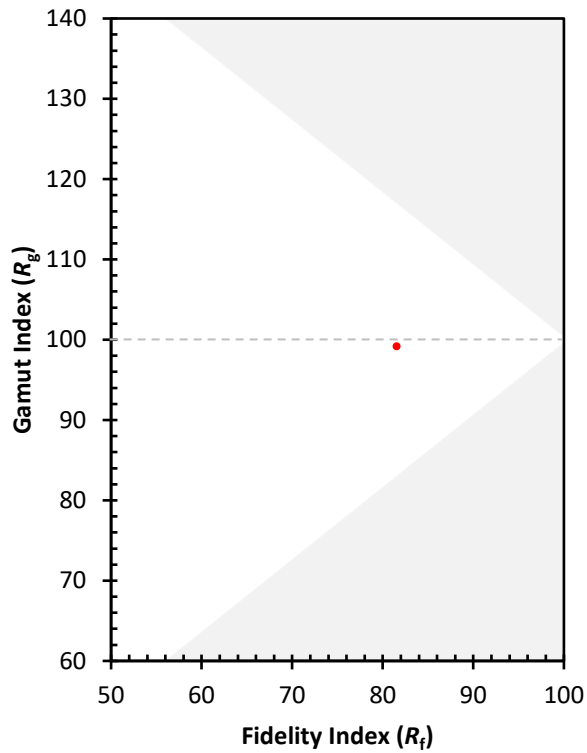
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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