

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: P324965

Luminaire Tested: **GLEON-SA1C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324965
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-SA1C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4817 lumens
Efficiency: N/A
Efficacy: 81.6 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

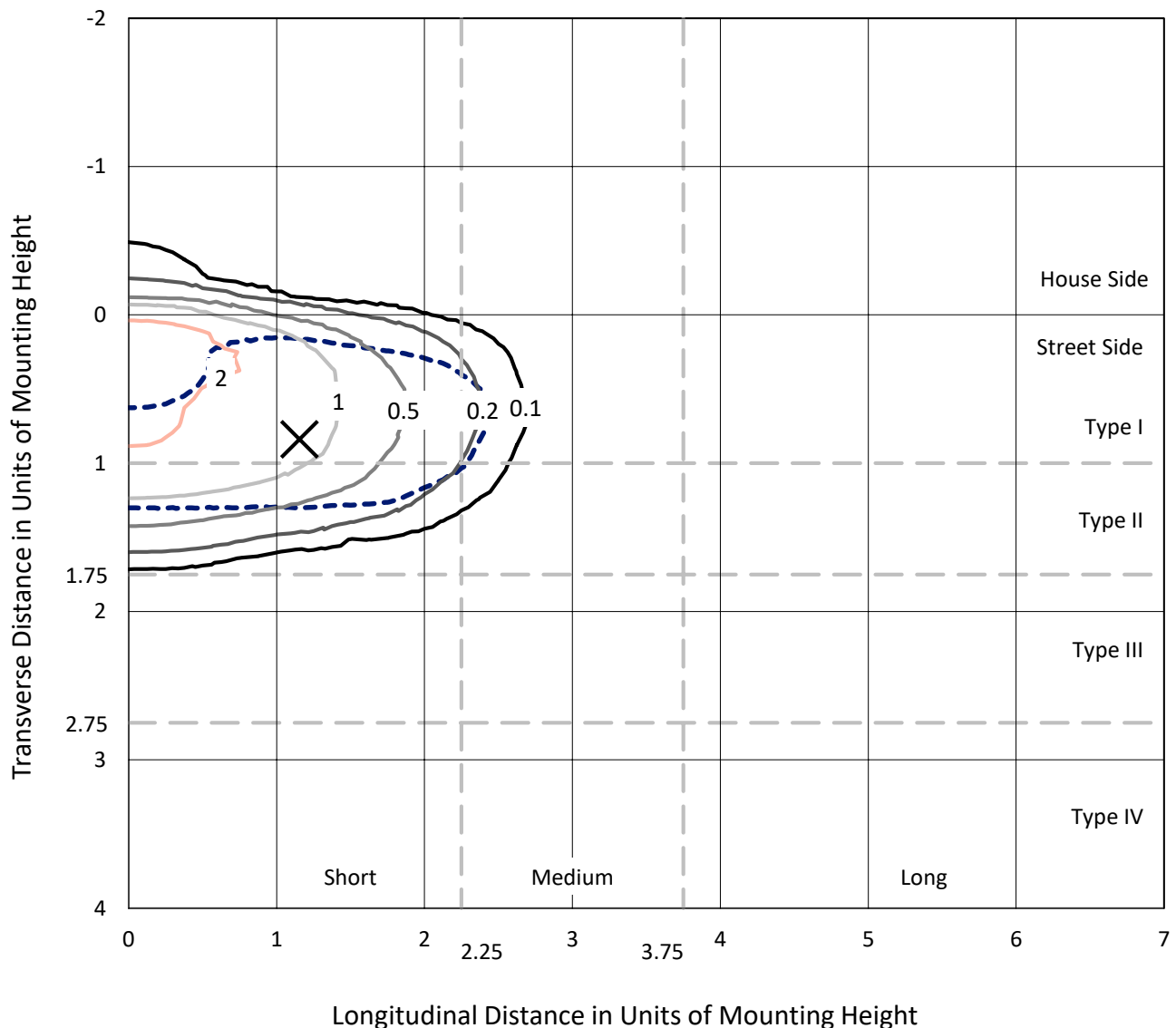
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

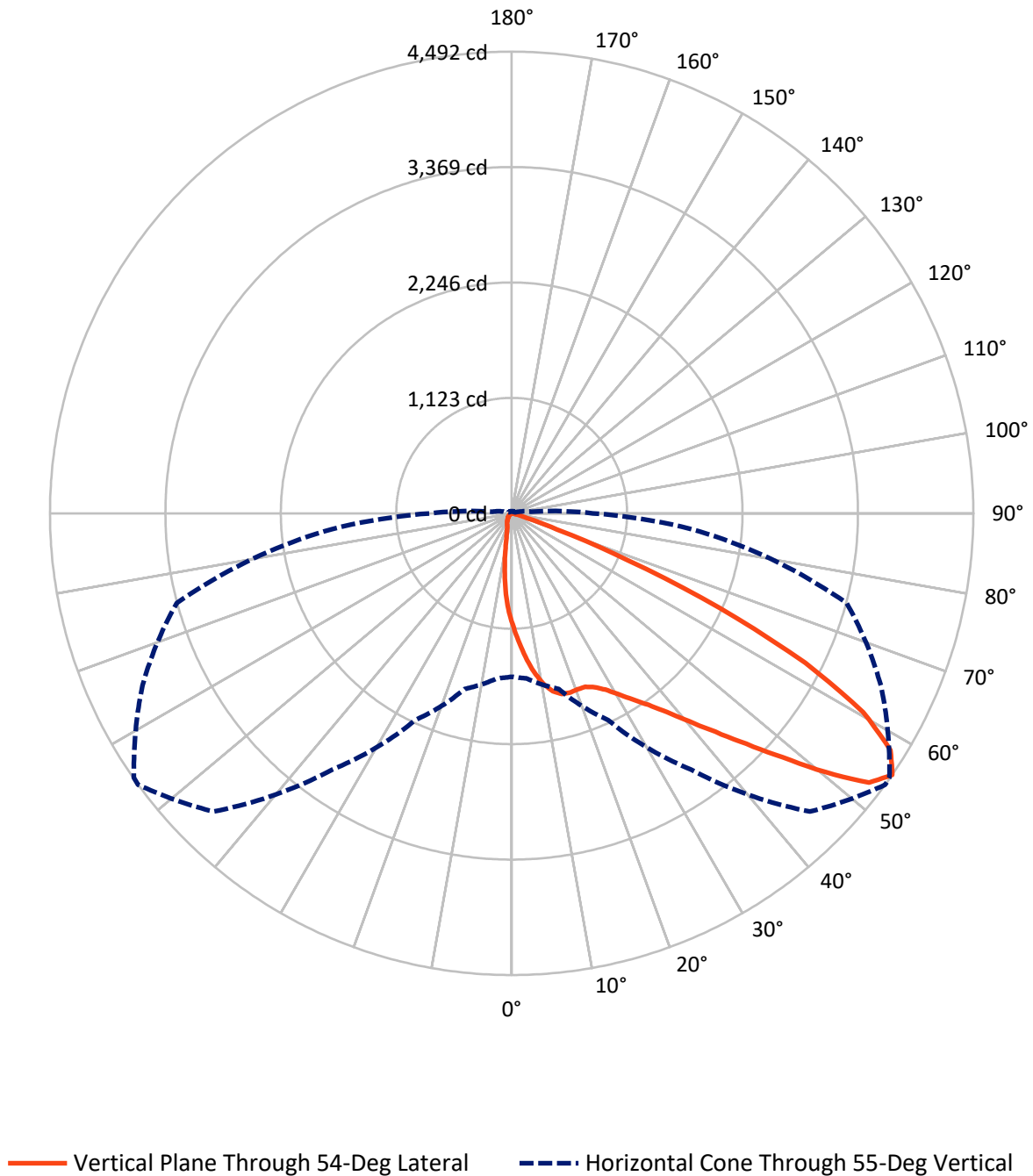
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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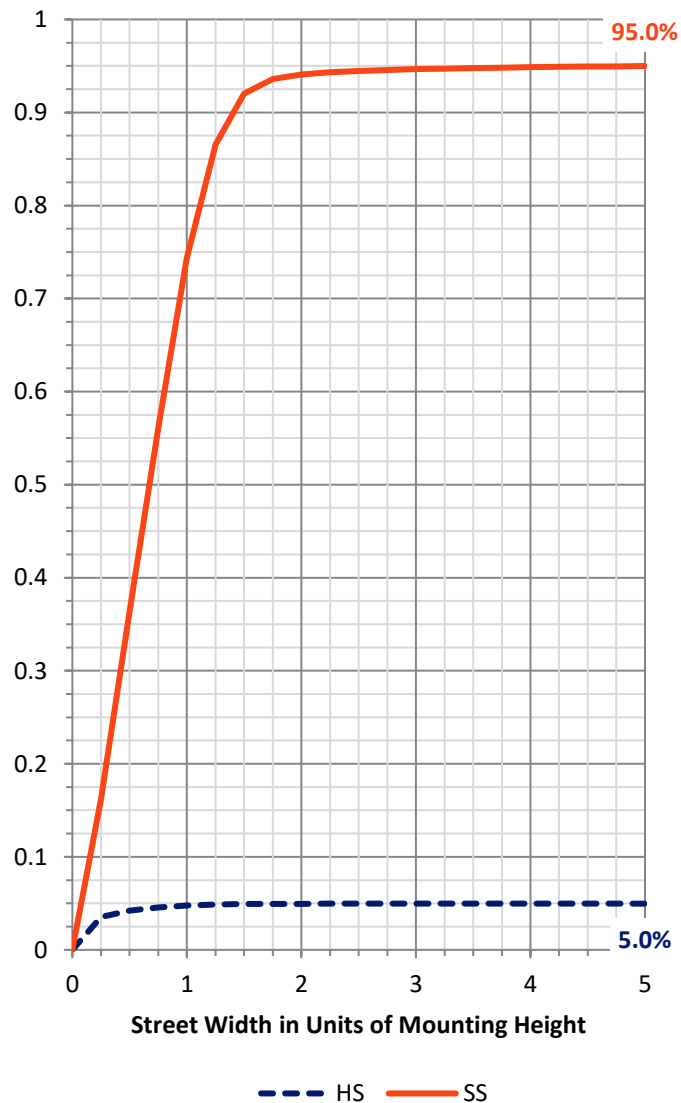
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	240.3	0.0	240.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4576.7	0.0	4576.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	4817.0	0.0	4817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	2.1
10°-20°	272.5	5.7
20°-30°	465.2	9.7
30°-40°	746.5	15.5
40°-50°	1193.0	24.8
50°-60°	1278.3	26.5
60°-70°	656.3	13.6
70°-80°	99.4	2.1
80°-90°	6.5	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°	4817.0	100.0
0°-180°	4817.0	100.0

Coefficient of Utilization



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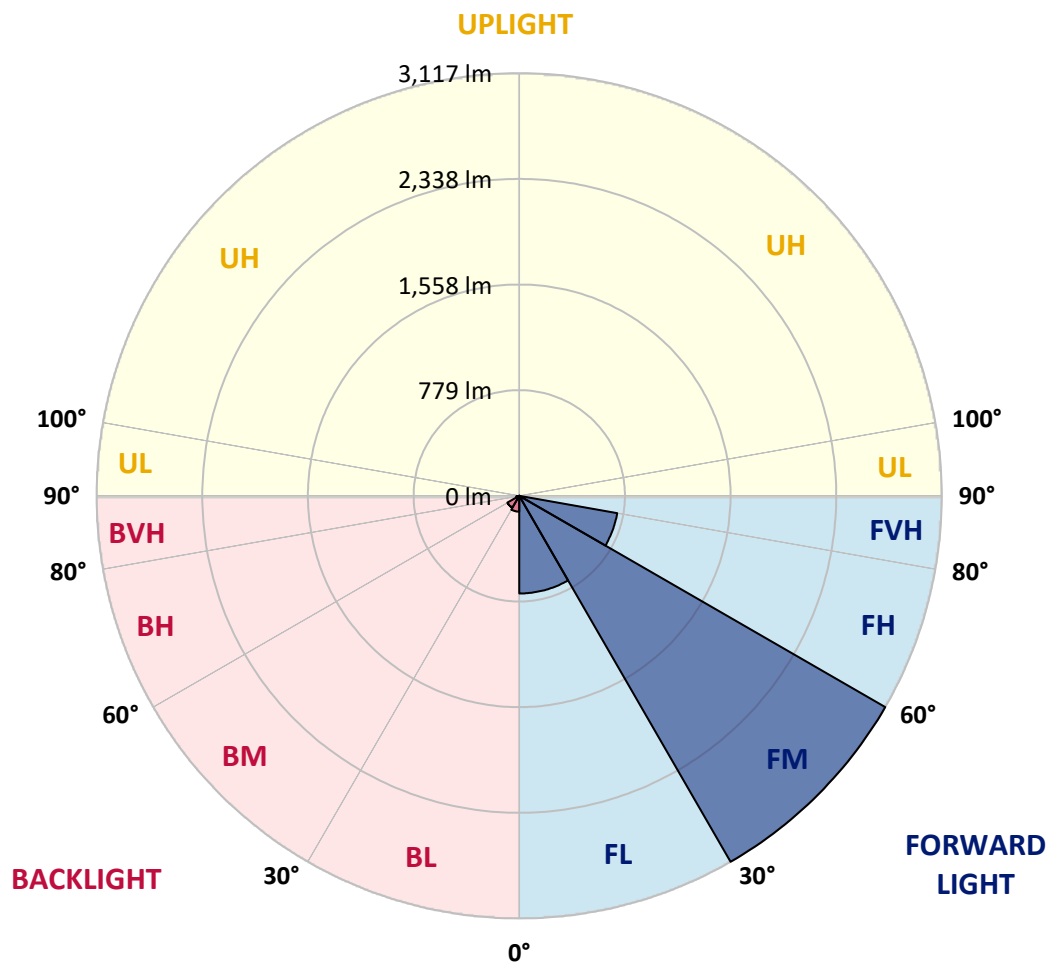
CATALOG NUMBER: GLEON-SA1C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	720.1	14.9			
FM	(30°-60°)	3116.8	64.7			
FH	(60°-80°)	733.6	15.2			G1/1800
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	116.9	2.4	B1/500		
BM	(30°-60°)	101.0	2.1	B0/220		
BH	(60°-80°)	22.1	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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CATALOG NUMBER: GLEON-SA1C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8
2.5°	1353.8	1333.6	1334.3	1325.1	1291.6	1265.4	1238.2	1231.7	1189.3	1144.8	1101.9
5°	1587.9	1573.1	1569.5	1551.9	1505.3	1456.0	1403.1	1390.9	1307.8	1216.7	1127.1
7.5°	1708.1	1708.3	1705.4	1698.9	1669.8	1622.0	1557.5	1544.6	1431.6	1295.0	1153.3
10°	1673.1	1681.0	1697.3	1718.7	1741.0	1734.9	1686.5	1674.8	1552.1	1377.7	1182.4
12.5°	1591.6	1592.6	1610.7	1645.9	1710.0	1775.7	1776.5	1772.6	1667.1	1464.3	1214.4
15°	1551.0	1555.0	1561.6	1584.3	1645.1	1750.3	1825.6	1831.2	1772.6	1556.2	1248.6
17.5°	1577.7	1583.3	1577.7	1580.4	1615.5	1710.2	1834.2	1848.5	1864.7	1647.1	1280.8
20°	1649.8	1655.0	1645.1	1634.0	1640.9	1698.5	1828.1	1847.5	1936.9	1727.9	1307.8
22.5°	1747.2	1749.3	1734.1	1716.0	1711.0	1738.0	1833.1	1853.1	1994.7	1800.9	1324.9
25°	1854.3	1856.2	1837.3	1816.5	1804.6	1815.6	1874.1	1889.1	2045.7	1870.6	1334.7
27.5°	1971.0	1972.7	1949.0	1923.4	1909.7	1910.1	1941.7	1957.7	2100.0	1950.0	1342.6
30°	2094.4	2093.6	2071.7	2036.1	2018.7	2018.3	2039.1	2055.3	2178.6	2052.0	1353.4
32.5°	2232.9	2231.3	2200.3	2156.2	2136.4	2139.3	2157.8	2167.2	2276.2	2160.5	1372.8
35°	2415.4	2410.6	2363.8	2309.1	2272.7	2271.6	2287.2	2294.7	2400.6	2292.0	1405.0
37.5°	2652.1	2647.7	2584.3	2504.8	2453.6	2434.5	2453.0	2462.6	2578.0	2460.7	1456.8
40°	2885.5	2881.1	2843.5	2770.7	2691.8	2645.9	2660.4	2670.6	2799.6	2665.4	1522.1
42.5°	3046.5	3050.3	3063.4	3069.4	2995.6	2899.0	2905.7	2916.3	3032.4	2884.3	1596.8
45°	3089.0	3097.1	3171.1	3316.5	3344.2	3268.9	3199.2	3205.0	3268.9	3103.1	1671.5
47.5°	2961.4	2976.4	3119.3	3389.8	3624.0	3677.2	3545.4	3537.7	3495.9	3280.1	1724.5
50°	2671.7	2685.4	2870.5	3270.6	3708.9	4067.1	3960.2	3937.5	3694.9	3386.0	1743.2
52.5°	2252.3	2268.9	2419.3	2895.3	3548.9	4241.0	4352.9	4334.0	3841.0	3394.3	1746.4
55°	1590.6	1610.7	1769.9	2219.0	3041.9	4102.7	4492.1	4486.5	3962.2	3372.3	1753.0
57.5°	893.9	908.4	1080.1	1422.5	2227.9	3573.4	4346.7	4383.9	4035.5	3334.0	1763.0
60°	396.9	400.9	489.7	708.1	1304.3	2730.9	3930.4	3993.2	3972.6	3282.8	1779.9
62.5°	220.1	216.8	216.8	294.4	566.9	1690.6	3205.0	3308.8	3704.5	3222.3	1780.7
65°	172.5	169.3	160.4	161.6	215.9	750.3	2219.4	2403.9	3195.3	3044.9	1720.8
67.5°	146.2	143.5	134.6	131.1	134.2	247.5	1219.4	1411.0	2424.5	2583.7	1490.5
70°	123.6	121.7	117.1	112.7	104.8	122.3	466.6	596.8	1494.0	1718.7	1017.4
72.5°	99.4	98.6	100.3	96.5	87.0	81.5	159.6	193.3	671.1	767.0	419.2
75°	85.7	85.3	86.1	82.4	71.6	56.8	81.1	88.6	189.3	187.6	84.9
77.5°	55.8	56.4	71.4	69.7	61.6	37.9	42.0	45.3	57.4	43.1	25.8
80°	35.6	35.2	36.2	57.8	55.3	28.9	21.0	22.1	27.7	21.2	12.5
82.5°	21.6	21.2	23.7	27.0	27.9	20.2	12.9	13.1	17.3	13.7	6.7
85°	1.9	2.5	14.4	13.3	9.6	6.2	6.2	6.7	9.2	8.1	3.7
87.5°	0.0	0.0	2.5	3.7	2.1	2.3	2.3	2.5	3.5	3.5	1.9
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: P324965

CATALOG NUMBER: GLEON-SA1C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8	1078.8
2.5°	1079.6	1058.0	1014.3	972.3	936.7	902.4	863.3	824.6	806.5	799.2	791.7
5°	1081.5	1037.0	946.9	856.2	762.2	677.5	605.4	531.3	494.3	478.0	470.6
7.5°	1084.0	1016.2	870.6	718.3	566.9	452.0	351.8	287.3	259.4	255.0	244.2
10°	1084.4	991.0	782.0	566.0	380.1	272.5	209.7	176.4	164.1	162.1	158.5
12.5°	1085.3	961.3	683.6	419.2	253.4	182.2	151.6	140.6	137.3	137.1	137.1
15°	1087.8	930.1	581.4	302.1	182.0	144.4	133.1	128.8	127.5	128.1	127.9
17.5°	1087.8	893.3	481.2	225.1	147.1	129.8	123.6	120.7	120.2	120.9	121.1
20°	1079.9	848.5	389.2	175.2	130.4	120.4	114.8	112.1	111.1	111.5	111.7
22.5°	1060.9	793.6	314.3	145.0	119.4	111.9	105.9	101.7	100.1	100.3	100.3
25°	1031.4	728.5	245.9	125.4	110.5	102.8	95.7	90.9	89.9	89.7	90.1
27.5°	993.5	656.5	195.8	110.5	99.9	92.6	85.5	81.5	80.7	80.9	81.1
30°	956.3	581.8	154.4	97.8	88.0	81.1	75.7	73.8	73.8	74.5	74.7
32.5°	922.2	510.1	122.1	86.7	77.4	71.1	68.0	67.8	68.9	69.3	69.5
35°	892.8	443.7	101.1	78.2	69.1	63.7	62.6	63.4	64.7	65.5	65.7
37.5°	872.0	384.4	88.4	71.1	62.6	58.2	58.0	59.7	61.4	63.2	63.7
40°	863.3	334.3	79.7	64.9	57.4	54.1	53.5	55.8	58.9	61.6	62.0
42.5°	856.0	293.3	72.2	58.9	53.3	48.5	48.3	51.2	54.9	57.6	58.2
45°	849.8	260.4	65.3	52.4	47.8	41.6	42.2	46.0	48.9	51.8	52.4
47.5°	836.9	233.4	57.8	45.6	39.5	35.6	36.8	40.1	42.4	46.8	47.4
50°	813.8	211.4	50.1	37.2	32.2	30.8	32.7	34.9	37.9	41.6	42.0
52.5°	798.2	194.7	43.5	31.2	26.6	27.0	28.9	29.7	31.4	32.9	32.5
55°	789.2	185.6	38.1	27.0	22.7	23.9	24.3	23.3	22.5	21.0	20.4
57.5°	788.2	177.2	33.9	23.5	20.0	20.6	19.1	15.6	12.7	11.0	10.6
60°	786.5	167.0	30.6	19.8	17.7	16.8	13.7	8.5	6.0	5.6	5.6
62.5°	768.4	151.2	28.1	16.6	15.0	12.7	7.9	4.0	3.3	3.5	3.5
65°	710.8	129.2	25.6	13.5	11.9	9.2	4.0	2.3	1.2	1.5	1.5
67.5°	604.3	103.0	22.9	10.4	8.9	5.8	2.3	1.0	0.0	0.0	0.0
70°	404.6	63.9	19.3	7.3	5.8	3.5	1.7	0.2	0.0	0.0	0.0
72.5°	155.2	34.5	15.6	4.4	3.7	2.5	1.0	0.0	0.0	0.0	0.0
75°	34.9	22.7	10.8	3.1	2.7	1.7	0.4	0.0	0.0	0.0	0.0
77.5°	13.3	16.4	6.2	2.1	1.9	1.0	0.0	0.0	0.0	0.0	0.0
80°	6.4	9.8	2.9	1.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	3.7	1.2	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.6	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
 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

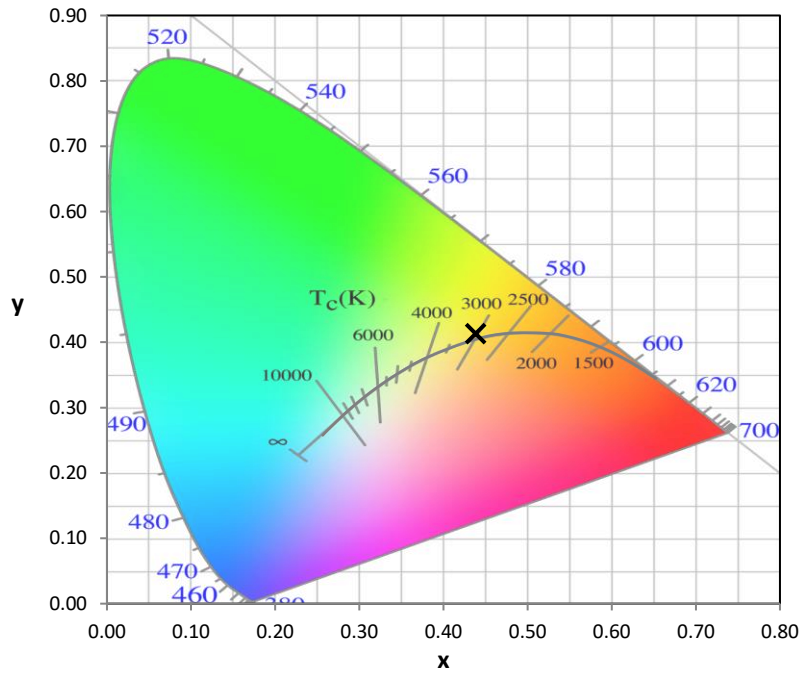
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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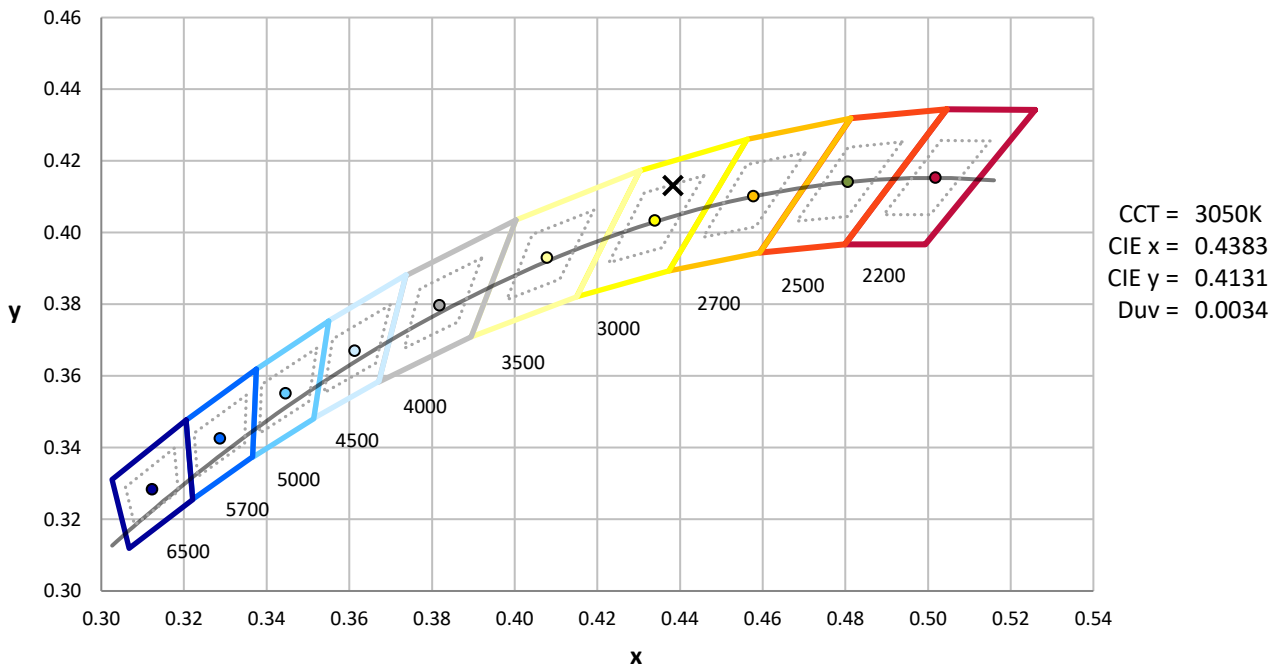
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

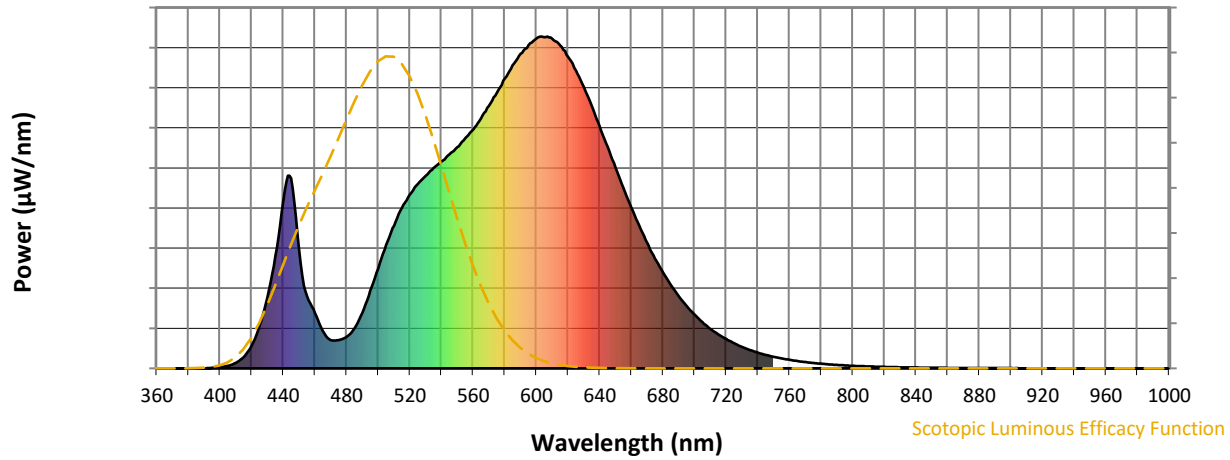


Photopic Lumens: NR

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



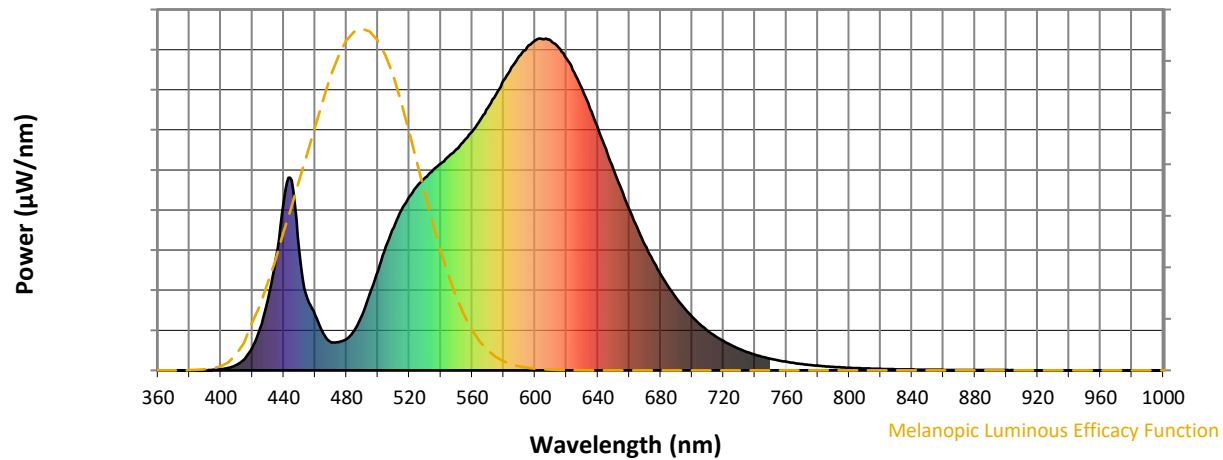
Scotopic Lumens: NR

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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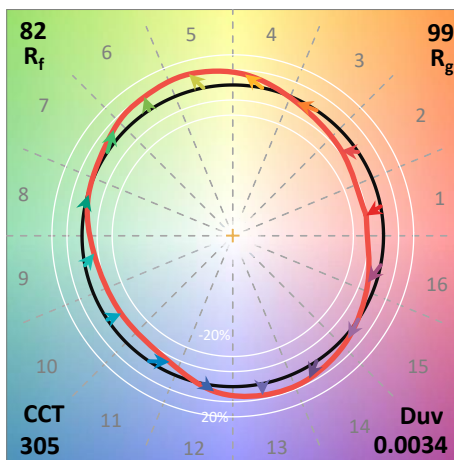
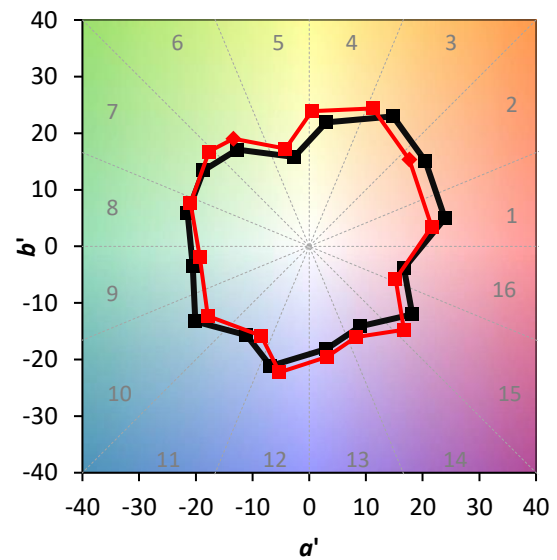
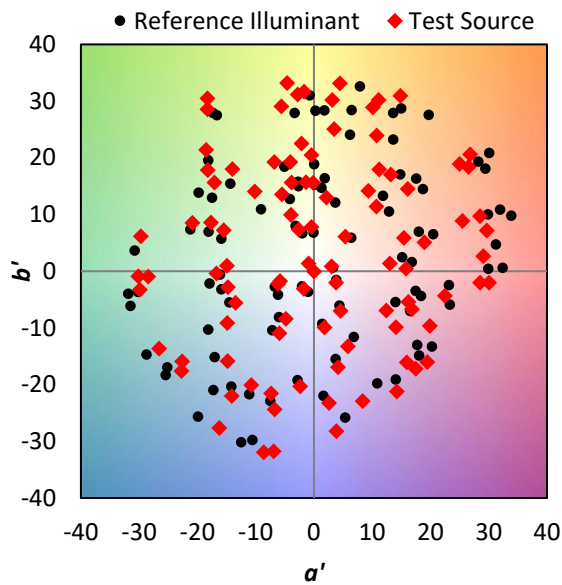
TM-30-18

Summary

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

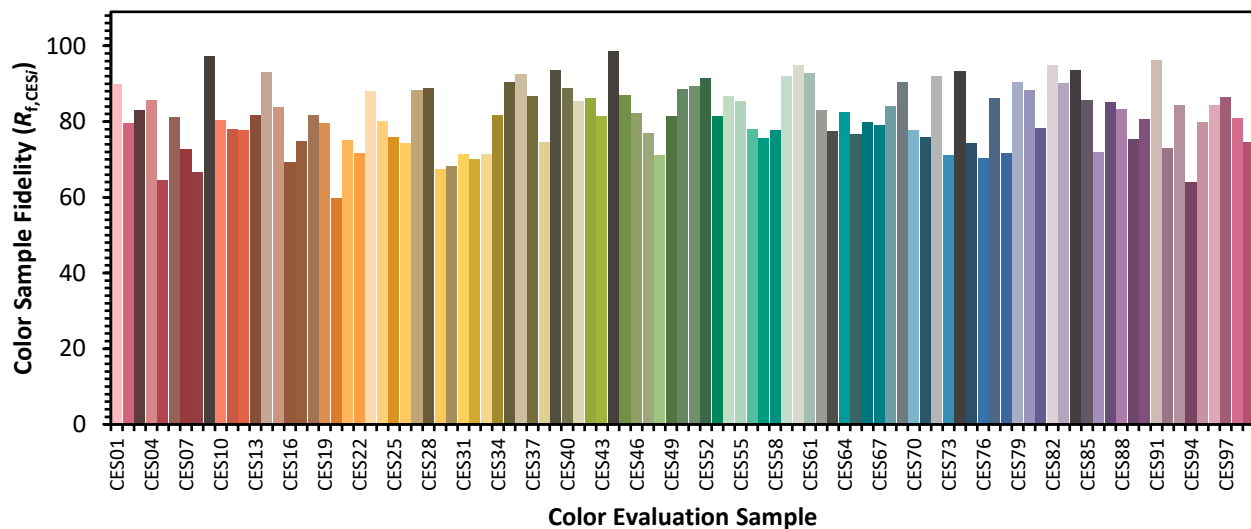


Color Vector Graphics

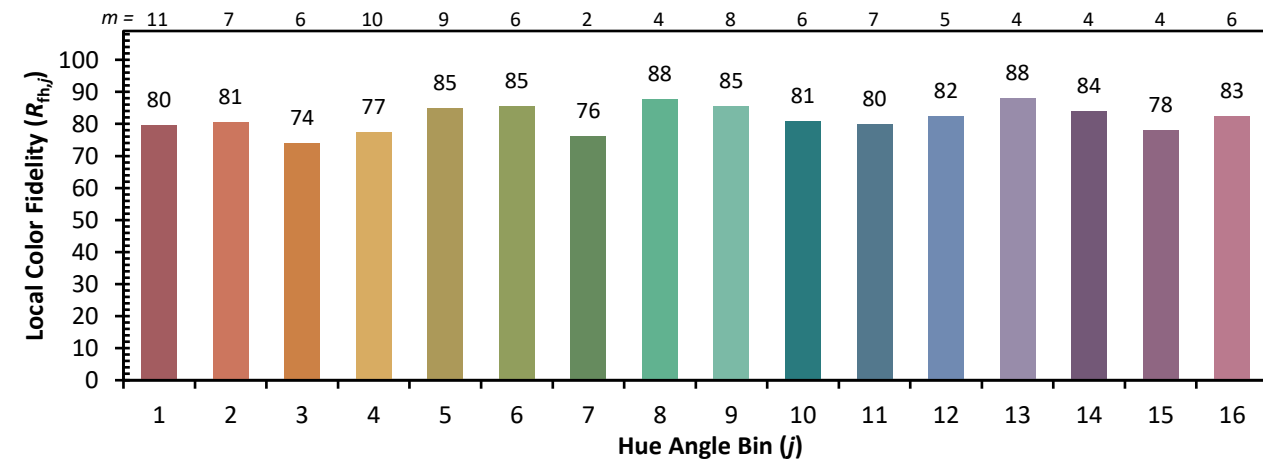
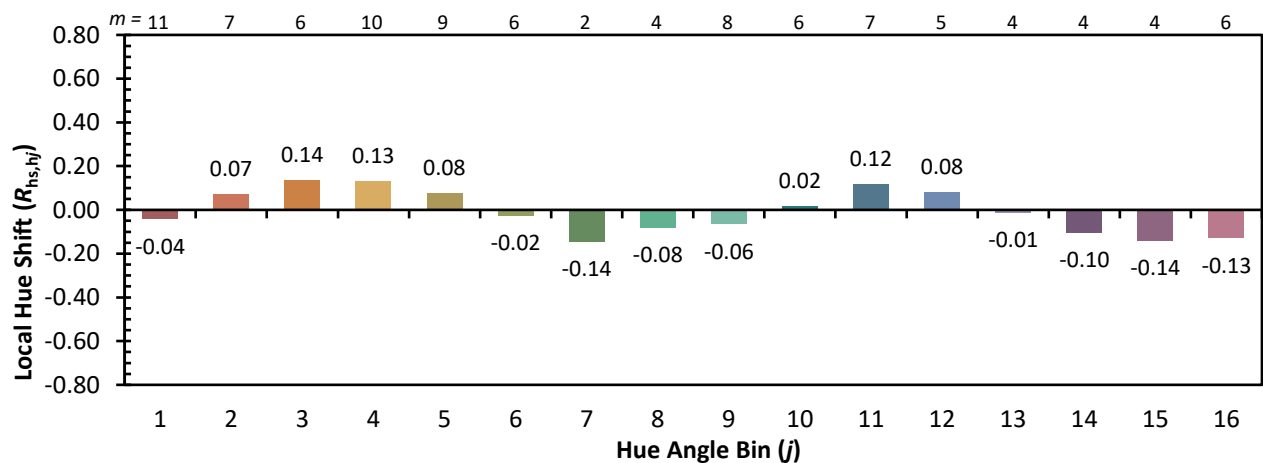
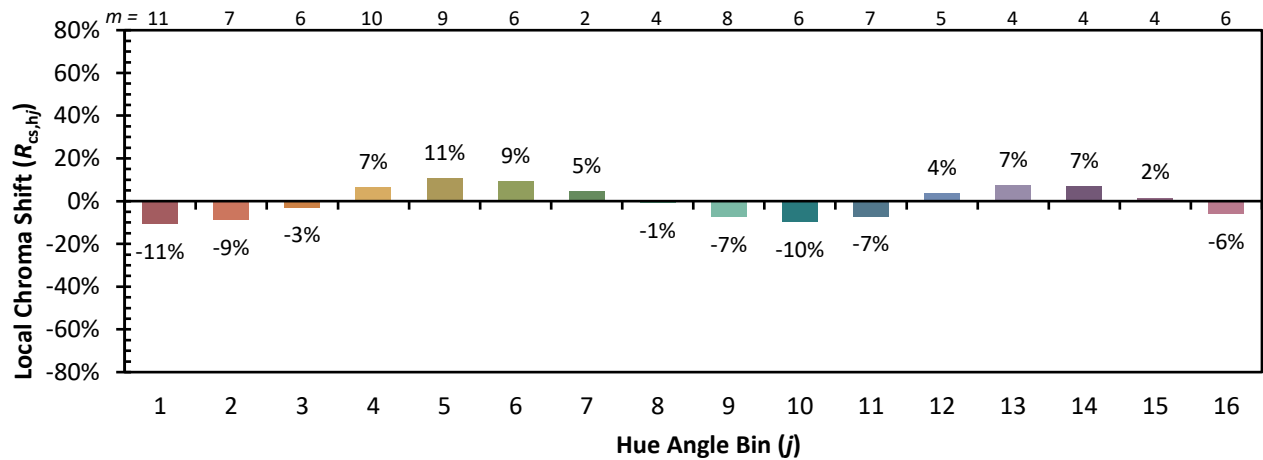


Individual Sample Fidelity Index ($R_{f,i}$)

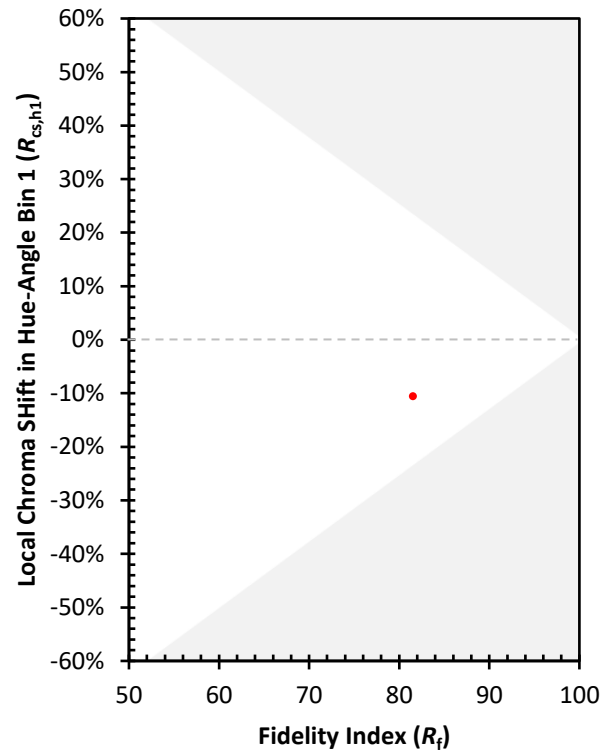
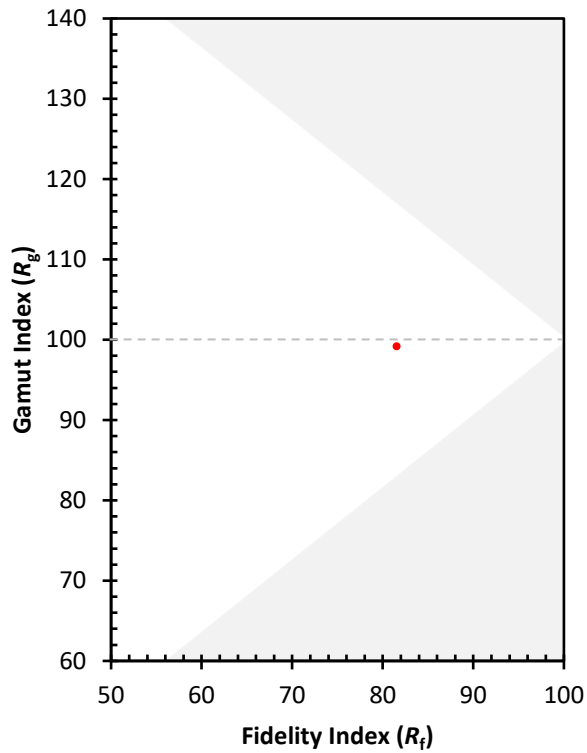
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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