

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: P322075

Luminaire Tested: **GLEON-SA1B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3382 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

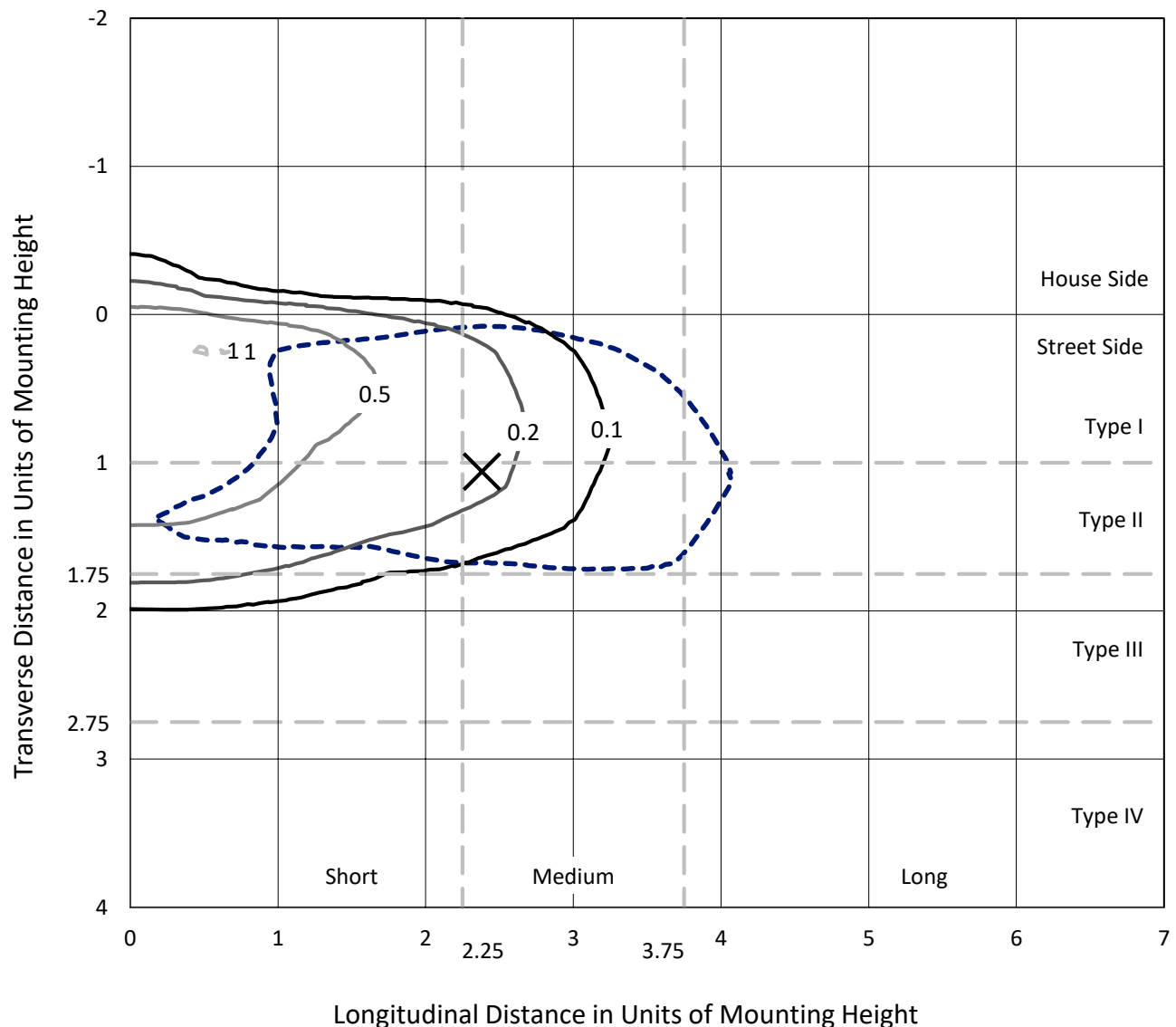
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322075
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Iso-Footcandle Lines of Horizontal Illumination

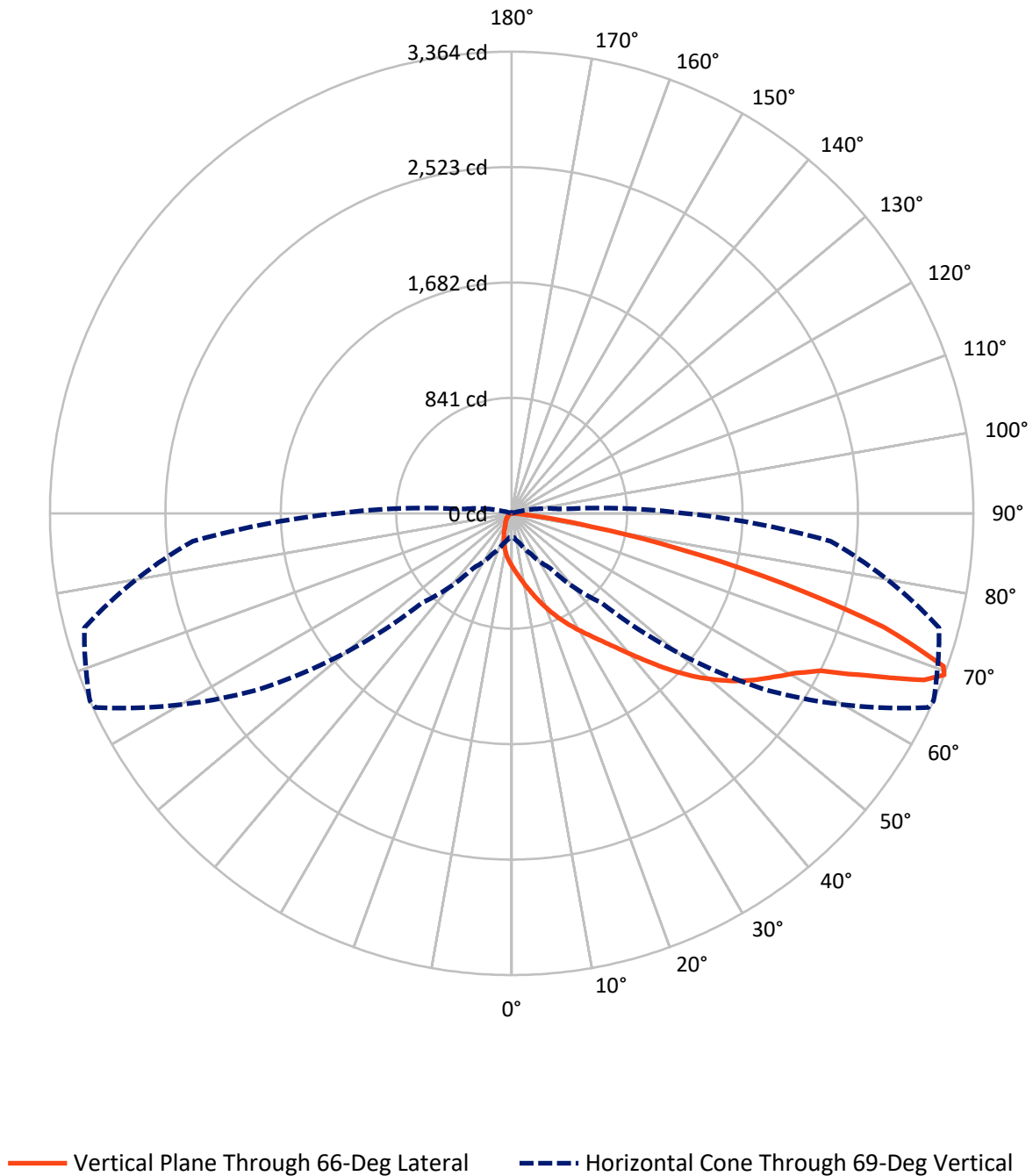
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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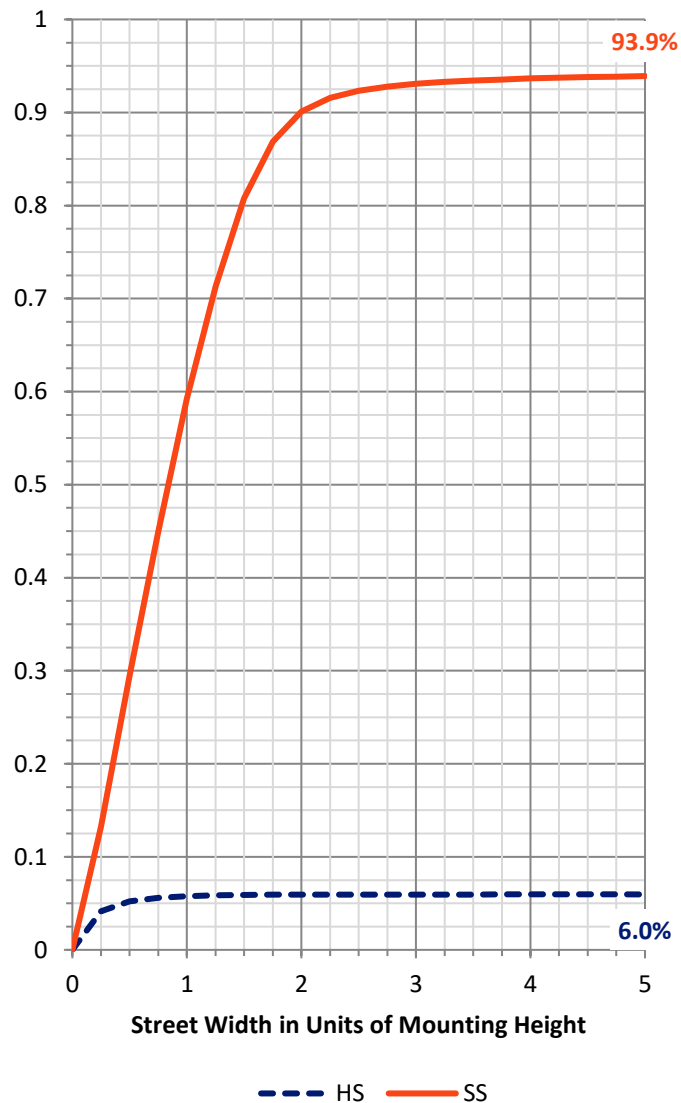
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.9	0.0	202.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3179.1	0.0	3179.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	3382.0	0.0	3382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.1
10°-20°	110.7	3.3
20°-30°	192.8	5.7
30°-40°	338.3	10.0
40°-50°	566.3	16.7
50°-60°	832.3	24.6
60°-70°	854.6	25.3
70°-80°	421.9	12.5
80°-90°	27.9	0.8
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°	3382.0	100.0
0°-180°	3382.0	100.0

Coefficient of Utilization



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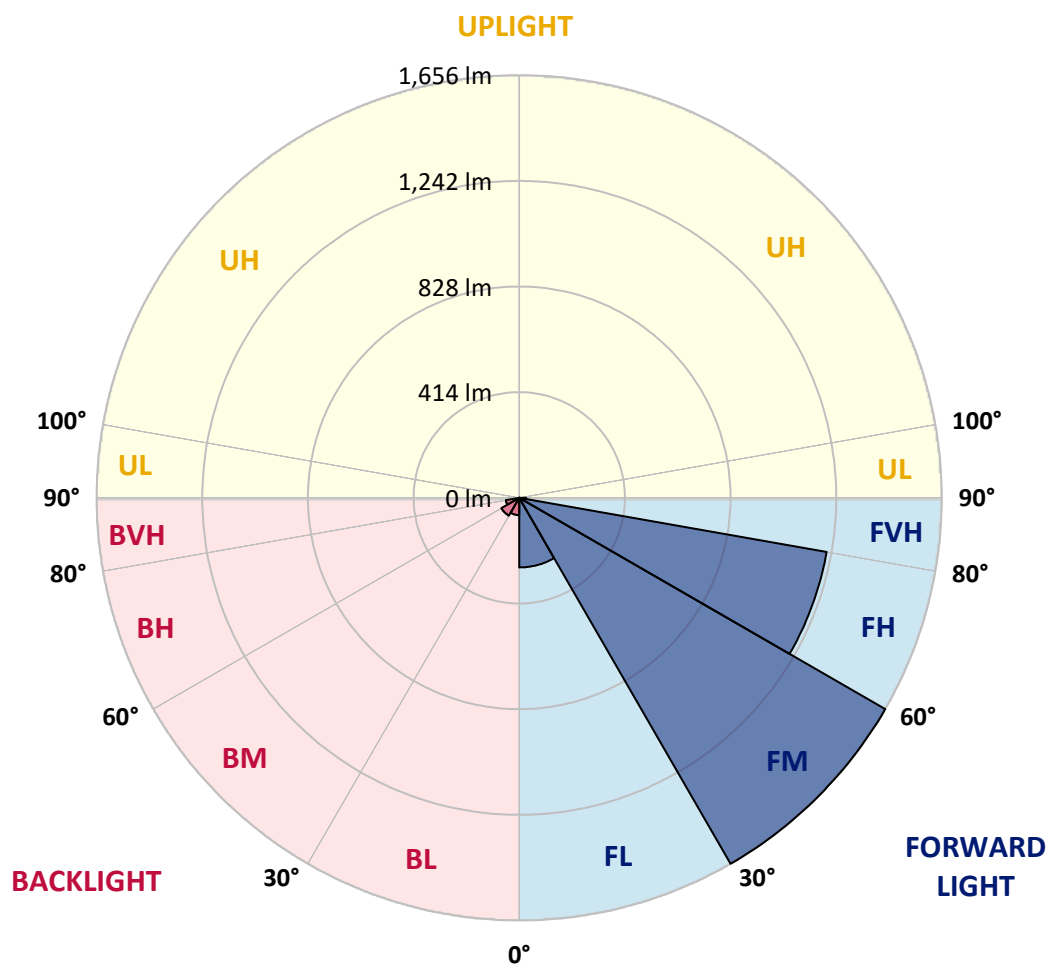
CATALOG NUMBER: GLEON-SA1B-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.9	8.1			
FM	(30°-60°)	1656.0	49.0			
FH	(60°-80°)	1223.0	36.2			G1/1800
FVH	(80°-90°)	27.2	0.8			G1/100
BL	(0°-30°)	67.8	2.0	B0/110		
BM	(30°-60°)	80.9	2.4	B0/220		
BH	(60°-80°)	53.5	1.6	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	453.0	451.1	450.3	446.7	440.6	436.0	427.0	416.5	414.6	404.5	392.1
5°	511.8	510.2	509.1	504.1	497.8	486.1	469.7	450.3	446.6	427.3	402.6
7.5°	552.7	555.6	555.6	552.4	544.6	535.7	515.6	489.1	484.5	454.9	416.5
10°	576.7	580.2	582.9	585.7	584.6	581.0	562.1	532.2	526.6	487.4	432.8
12.5°	578.9	582.5	590.2	601.6	612.7	620.7	608.8	579.9	573.5	525.0	452.0
15°	566.4	570.1	582.0	604.1	631.0	654.4	658.3	632.7	626.2	569.8	476.1
17.5°	544.6	547.0	564.0	594.7	636.8	679.8	703.1	689.4	683.3	621.0	502.9
20°	528.3	530.1	545.0	578.0	633.2	695.7	745.5	749.7	743.3	676.0	532.0
22.5°	556.1	559.3	559.8	575.4	623.6	703.6	782.8	809.0	804.1	734.3	560.6
25°	632.1	635.8	623.6	613.9	631.8	707.1	814.7	869.7	865.8	797.1	589.4
27.5°	732.5	736.4	720.6	691.9	674.7	720.4	843.2	931.4	931.2	863.6	620.4
30°	831.1	835.0	818.9	790.2	750.6	758.2	867.8	995.9	996.9	932.2	653.3
32.5°	934.6	939.4	922.9	885.9	844.6	823.4	902.3	1060.8	1066.3	1011.7	690.4
35°	1052.2	1052.8	1029.5	990.8	943.3	910.6	957.7	1133.6	1146.6	1110.2	737.5
37.5°	1167.5	1172.2	1153.0	1092.0	1048.3	1011.4	1040.1	1224.5	1243.0	1230.5	799.0
40°	1253.0	1262.8	1260.0	1194.2	1152.7	1126.4	1142.4	1332.6	1356.1	1370.5	876.6
42.5°	1306.6	1314.0	1326.5	1286.9	1249.3	1253.6	1263.2	1458.6	1487.5	1530.2	965.7
45°	1368.1	1371.7	1382.1	1364.6	1339.2	1382.9	1391.4	1600.4	1630.8	1701.9	1064.7
47.5°	1443.3	1451.7	1454.6	1438.5	1426.9	1497.3	1515.0	1729.4	1772.0	1885.9	1169.4
50°	1539.0	1541.3	1546.3	1535.8	1524.3	1595.6	1625.8	1864.8	1903.5	2070.4	1272.7
52.5°	1632.7	1640.7	1658.1	1651.5	1646.8	1679.3	1724.6	1986.9	2030.1	2224.3	1375.8
55°	1659.7	1666.6	1726.5	1767.5	1805.4	1782.4	1819.0	2096.3	2143.0	2361.8	1475.1
57.5°	1551.9	1565.9	1669.6	1776.3	1933.6	1942.7	1948.8	2208.6	2250.5	2467.2	1578.4
60°	1279.5	1282.2	1452.5	1635.4	1912.4	2082.6	2138.4	2329.2	2364.4	2565.3	1702.1
62.5°	813.8	841.6	1028.4	1286.7	1688.1	2062.4	2367.6	2511.7	2524.5	2683.1	1879.4
65°	387.6	405.6	540.2	795.0	1222.8	1803.3	2525.8	2841.8	2847.6	2916.5	2116.4
67.5°	214.6	223.3	287.4	427.9	714.8	1275.3	2461.9	3232.8	3238.2	3154.9	2324.2
69°	167.9	175.3	225.7	322.6	484.6	916.6	2227.9	3347.3	3363.5	3223.1	2331.6
70°	142.5	149.7	194.4	272.4	389.7	708.2	1983.0	3318.9	3336.1	3216.7	2276.5
72.5°	87.2	91.4	129.5	191.8	261.2	356.3	1222.9	2806.8	2835.9	2950.7	1956.5
75°	58.8	61.0	81.0	132.4	186.8	183.4	635.3	1978.4	2041.4	2295.3	1445.1
77.5°	42.1	44.2	54.3	85.6	130.9	121.1	287.7	1229.5	1243.0	1376.6	788.1
80°	23.9	25.9	38.4	50.9	88.8	80.8	114.4	587.3	594.0	590.3	263.1
82.5°	12.5	14.1	21.0	33.6	57.0	52.8	47.5	196.6	197.6	164.3	57.7
85°	2.4	2.9	10.4	23.0	29.4	23.0	19.4	46.1	47.1	41.6	14.3
87.5°	0.0	0.2	4.2	5.1	5.8	5.9	6.3	9.0	9.6	13.0	3.9
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: P322075

CATALOG NUMBER: GLEON-SA1B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	386.6	380.9	369.8	356.9	347.0	337.2	329.5	321.4	318.5	317.1	316.9
5°	390.5	378.3	354.8	330.7	311.0	292.4	279.0	266.3	260.4	257.7	256.5
7.5°	396.9	377.3	339.6	302.8	274.4	251.1	232.6	218.8	211.9	209.0	207.9
10°	404.5	376.0	321.8	273.2	236.9	212.8	194.5	180.9	173.3	170.1	168.5
12.5°	413.3	373.8	301.2	243.4	205.0	180.9	158.7	141.8	133.2	129.5	127.7
15°	424.2	371.5	279.7	215.3	176.9	147.5	123.2	111.8	110.0	109.4	109.6
17.5°	435.0	368.0	256.2	187.5	147.3	115.2	102.8	102.2	102.5	102.5	102.5
20°	444.6	360.0	230.7	163.7	119.2	97.2	94.6	93.5	92.7	92.0	91.2
22.5°	452.2	349.2	206.1	140.1	97.3	89.0	85.0	81.4	78.6	76.6	75.7
25°	457.3	334.9	183.6	117.4	87.5	81.0	73.7	67.8	63.3	60.6	59.4
27.5°	461.2	319.5	163.5	98.3	80.8	71.6	62.2	55.1	50.4	48.0	47.1
30°	463.9	302.0	145.9	86.4	73.2	61.8	51.7	44.8	41.4	40.2	39.5
32.5°	466.5	282.6	129.2	80.8	66.2	52.8	43.4	38.1	36.0	34.4	33.9
35°	472.9	264.6	113.2	74.9	59.0	45.1	37.3	33.4	31.3	30.4	30.0
37.5°	488.2	251.2	98.0	68.8	51.7	39.0	32.6	29.9	28.0	27.0	26.7
40°	512.7	244.5	85.1	62.2	44.7	34.4	29.6	27.0	24.9	23.5	23.1
42.5°	548.9	245.5	76.1	55.6	39.0	30.7	26.7	23.6	21.4	20.1	19.8
45°	592.7	252.5	69.9	49.2	34.4	27.8	23.5	20.2	18.2	17.0	16.7
47.5°	640.3	263.9	64.7	43.4	30.7	25.1	20.2	16.9	15.1	14.1	14.0
50°	690.4	275.0	59.4	37.7	27.5	22.3	17.0	14.0	12.5	11.7	11.4
52.5°	741.2	287.9	54.6	32.6	24.7	19.1	14.1	11.4	10.3	9.6	9.3
55°	795.8	297.5	50.0	28.6	22.0	16.2	11.7	9.5	8.5	7.7	7.5
57.5°	860.0	312.4	45.1	24.7	18.8	13.5	9.6	7.5	6.7	5.9	5.8
60°	946.8	329.9	40.0	21.8	15.4	11.1	7.9	6.1	5.1	4.5	4.3
62.5°	1061.2	349.4	33.6	19.1	12.5	9.0	6.3	4.8	3.7	2.9	2.9
65°	1206.2	381.0	27.5	16.1	10.3	7.4	4.8	3.5	2.1	1.3	1.3
67.5°	1290.9	386.5	22.2	13.2	8.4	6.3	4.0	2.4	0.6	0.2	0.0
69°	1263.7	354.8	18.8	11.2	7.2	5.9	3.7	1.8	0.3	0.0	0.0
70°	1212.6	324.5	16.5	10.0	6.6	5.6	3.5	1.3	0.3	0.0	0.0
72.5°	1002.0	231.0	12.5	7.4	4.8	5.0	3.2	0.8	0.3	0.0	0.0
75°	729.9	140.4	9.0	5.1	3.1	3.7	2.2	0.3	0.2	0.0	0.0
77.5°	406.1	66.2	5.6	2.9	1.9	2.2	1.1	0.0	0.0	0.0	0.0
80°	131.9	18.0	2.6	1.6	1.1	1.3	0.5	0.0	0.0	0.0	0.0
82.5°	24.4	5.1	1.4	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	0.2	0.0	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

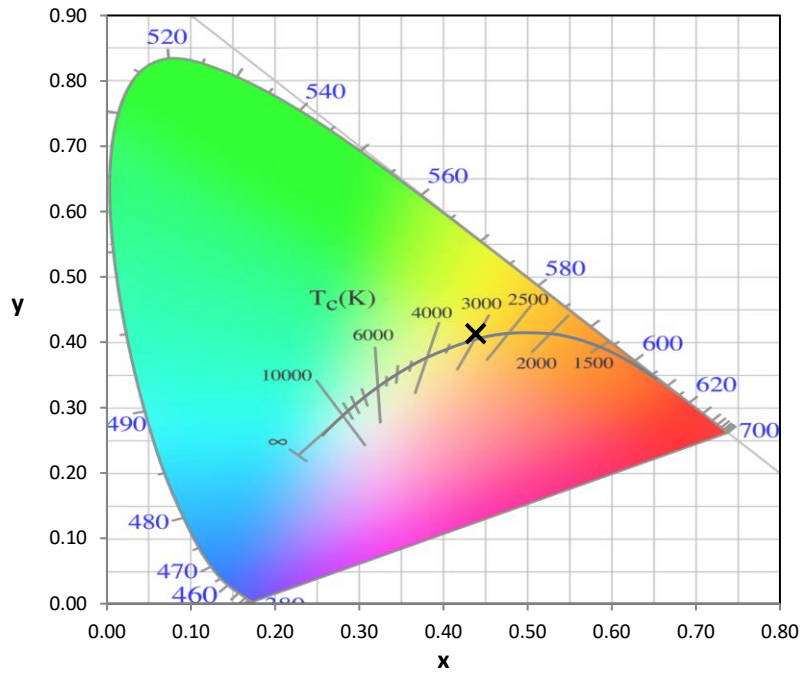
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

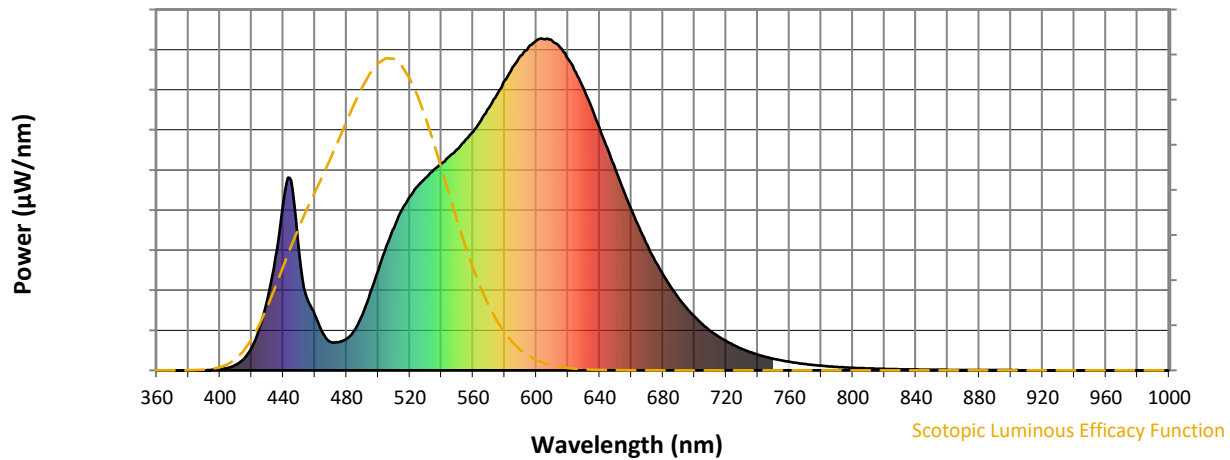


Photopic Lumens: NR

λ (nm)	Power 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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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

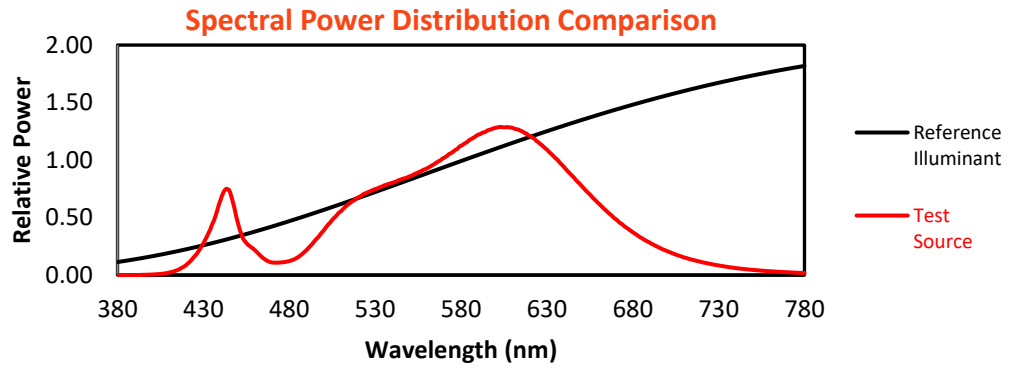
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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			

REPORT NUMBER: SP1-2408-195-9

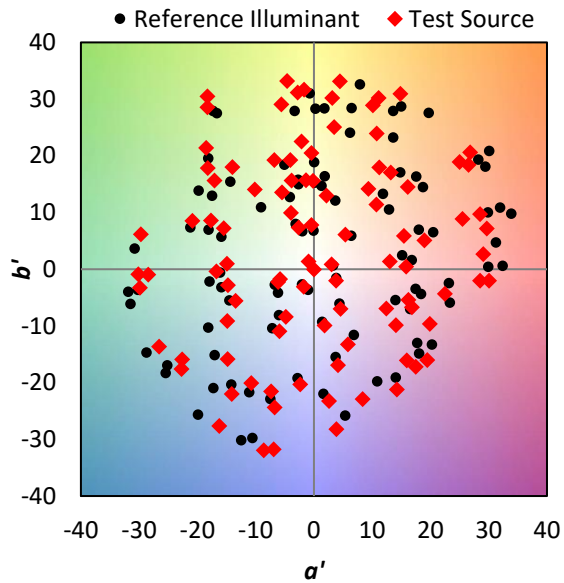
TM-30-18

Summary

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

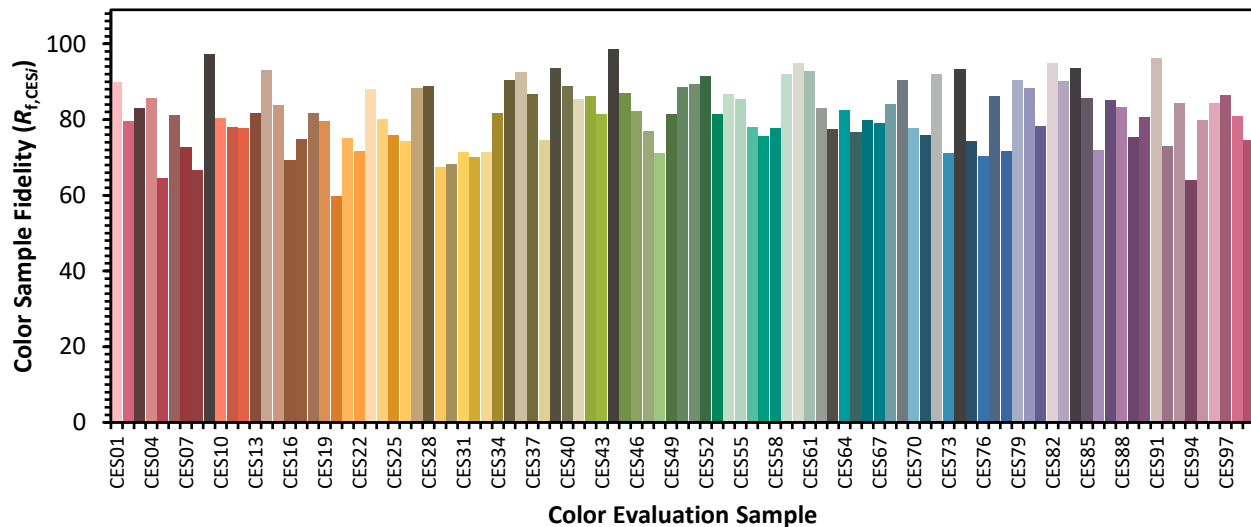


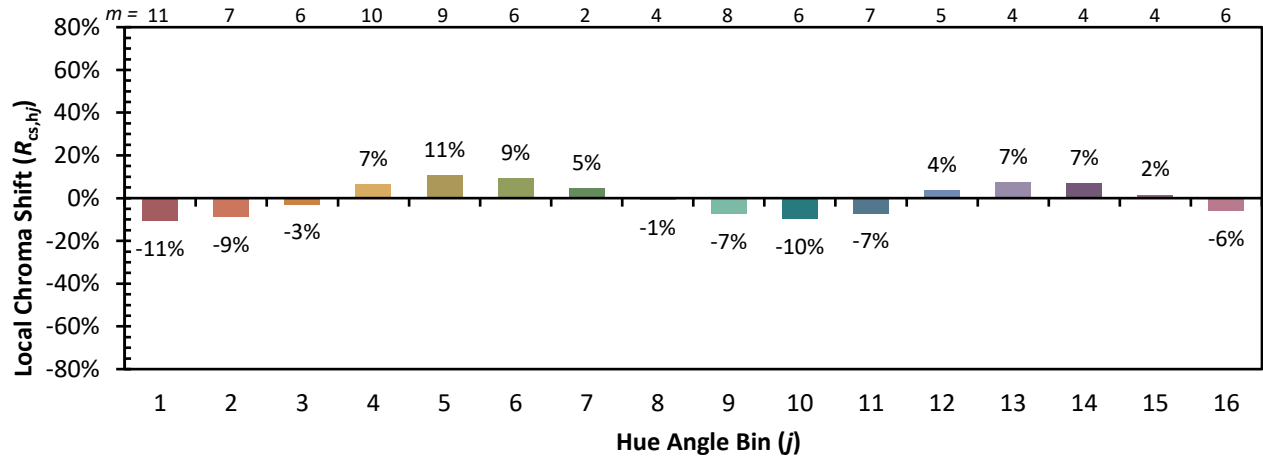
Color Vector Graphics



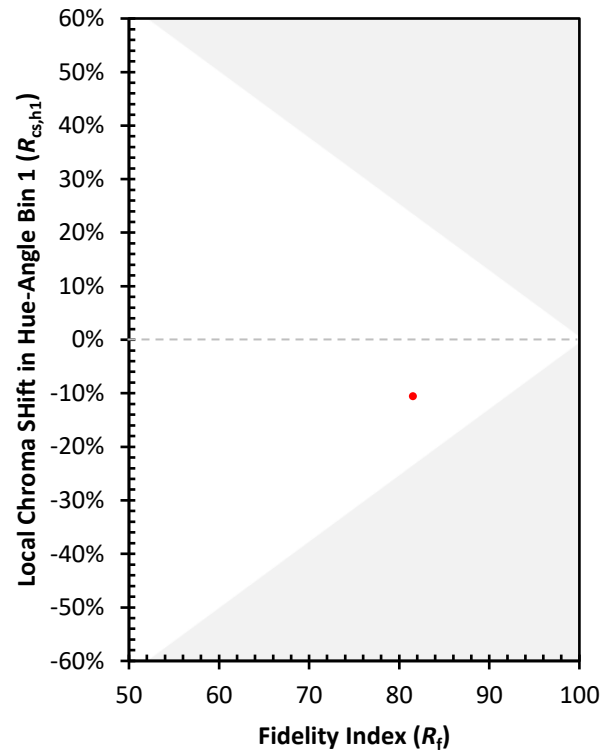
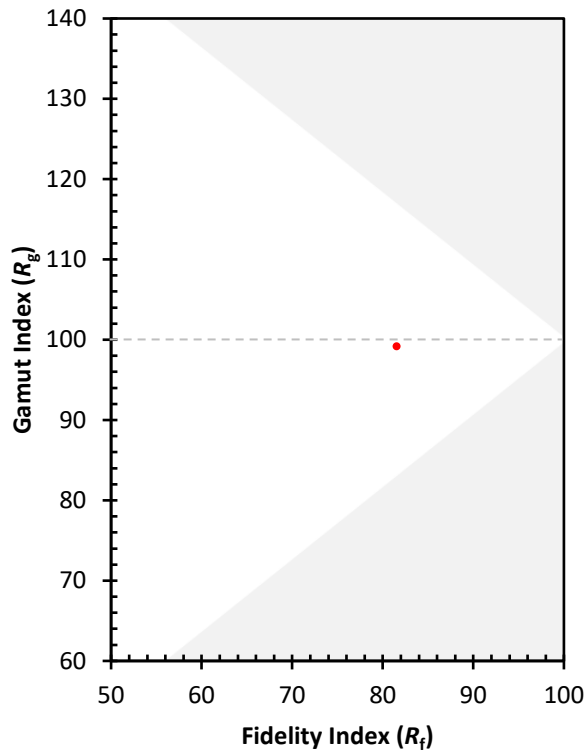
Individual Sample Fidelity Index ($R_{f,i}$)

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)