

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: P321434

Luminaire Tested: **GLEON-SA0A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29586 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

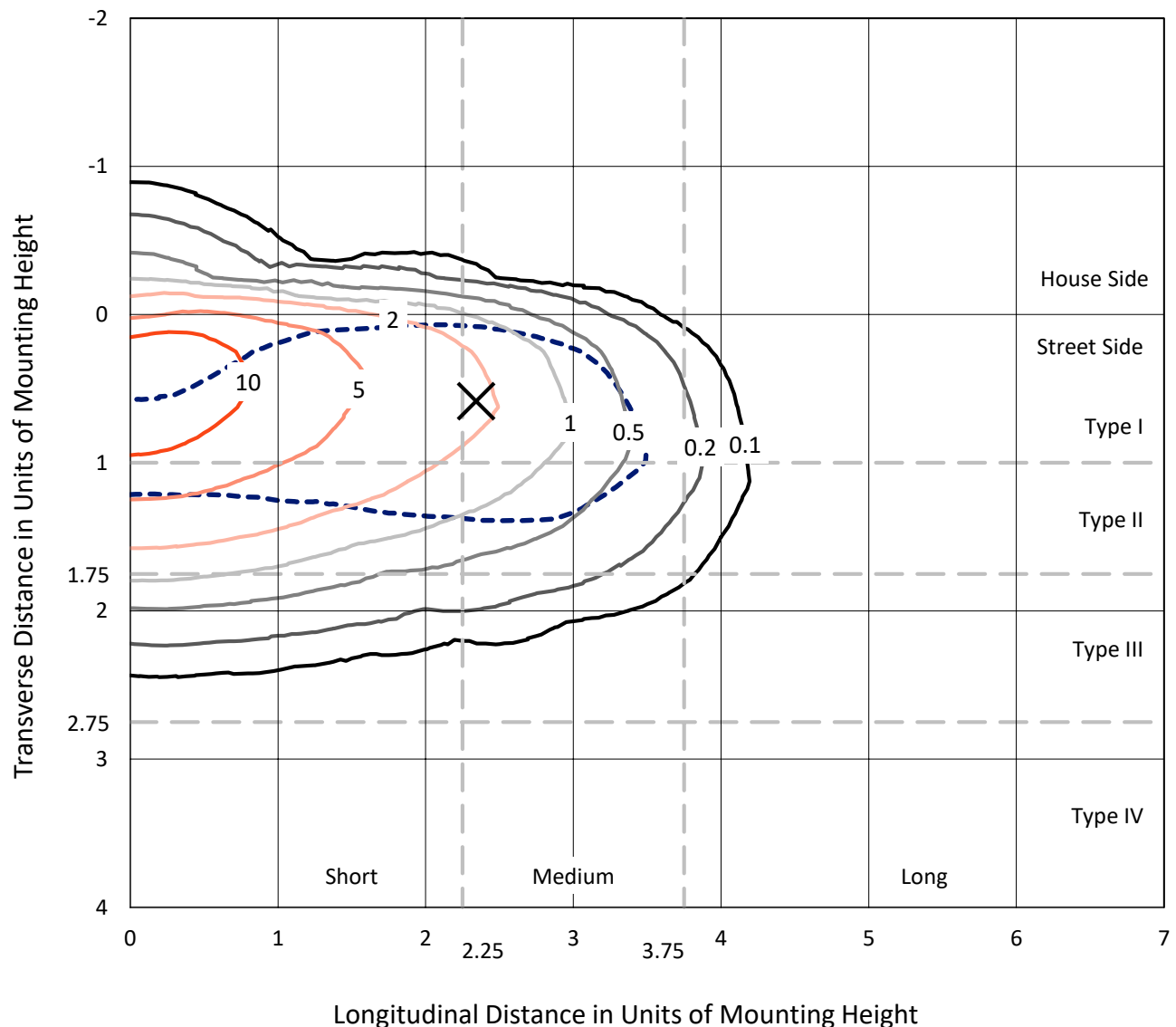
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

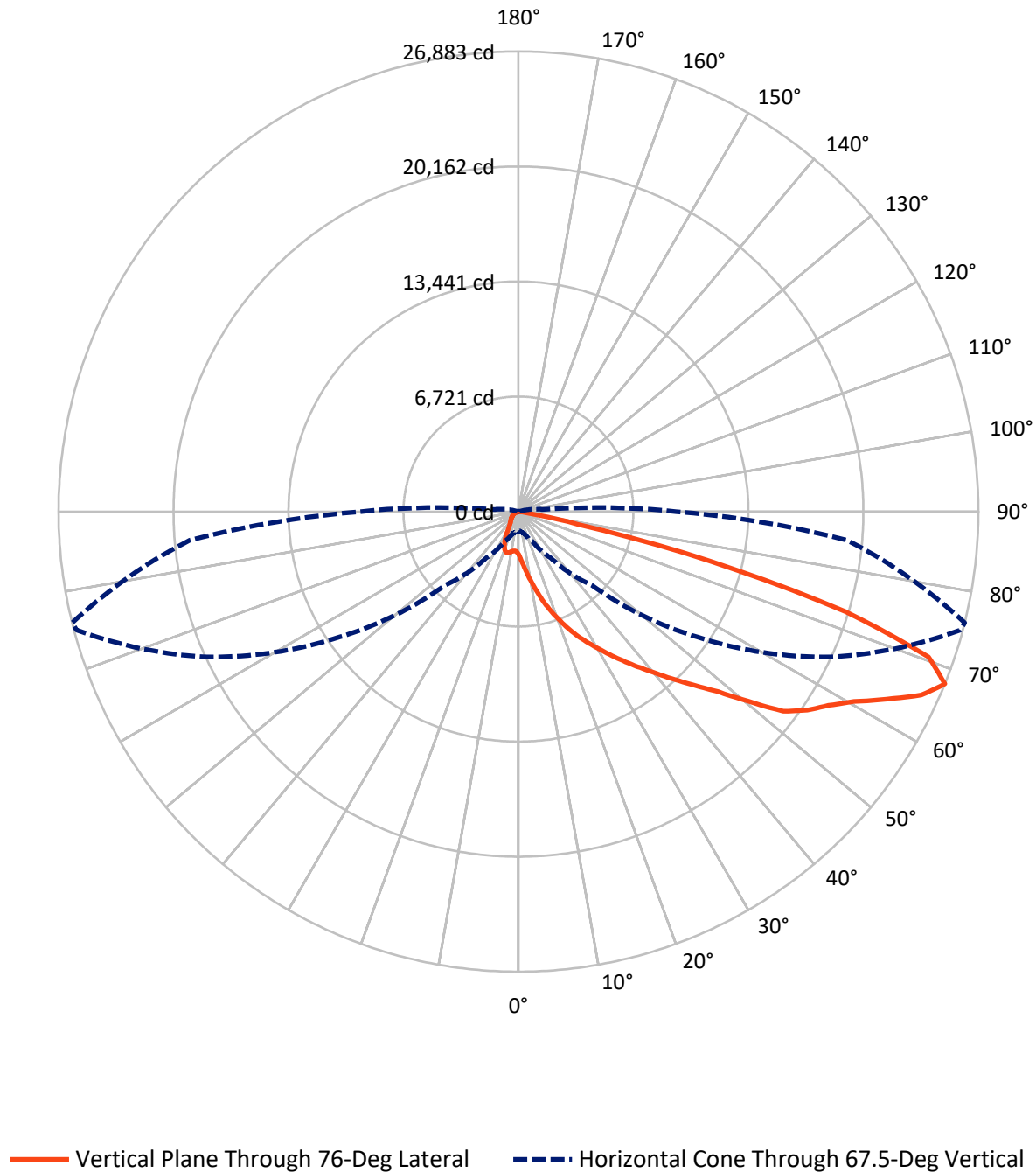
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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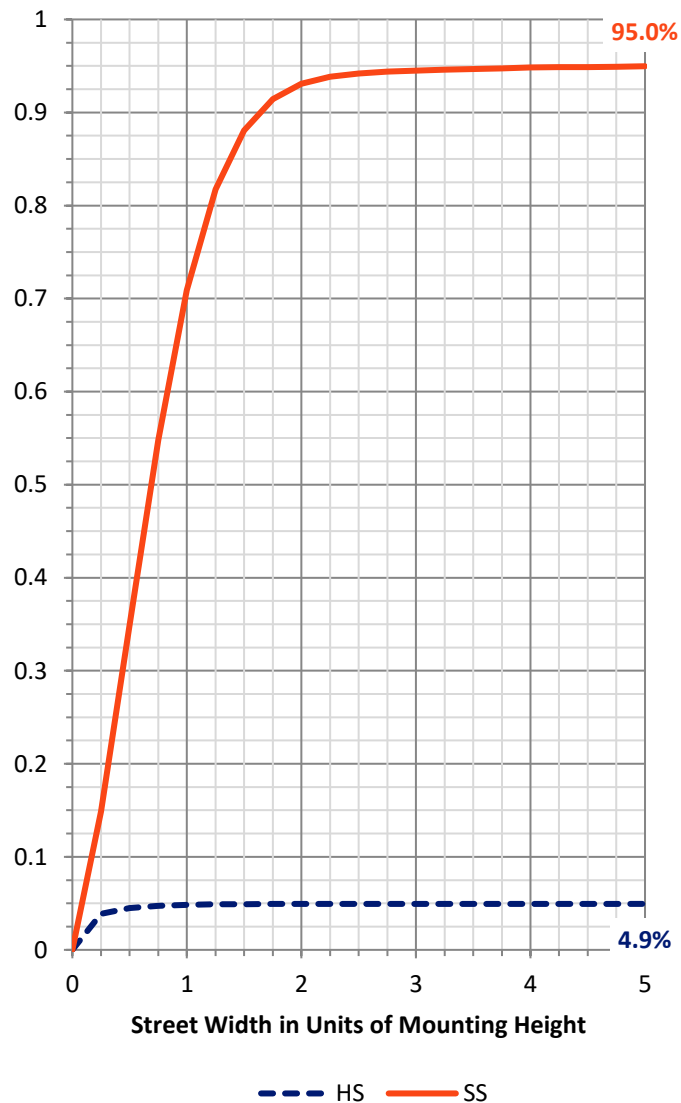
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.2	0.0	1469.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28116.8	0.0	28116.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	29586.0	0.0	29586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.1
10°-20°	1237.1	4.2
20°-30°	2517.2	8.5
30°-40°	4369.0	14.8
40°-50°	6172.8	20.9
50°-60°	7000.3	23.7
60°-70°	5806.1	19.6
70°-80°	2103.1	7.1
80°-90°	68.2	0.2
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°	29586.0	100.0
0°-180°	29586.0	100.0

Coefficient of Utilization



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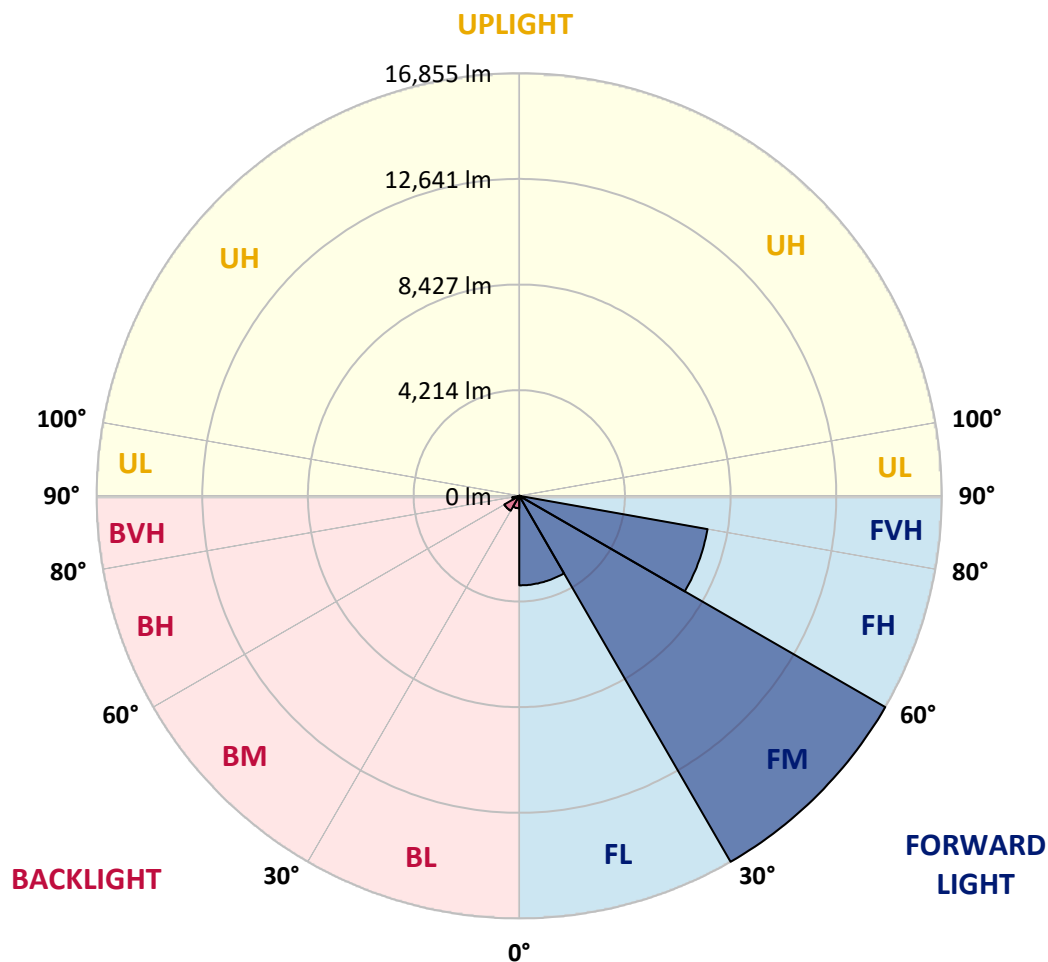
CATALOG NUMBER: GLEON-SA0A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3570.9	12.1			
FM	(30°-60°)	16854.5	57.0			
FH	(60°-80°)	7625.3	25.8			G4/12000
FVH	(80°-90°)	66.1	0.2			G1/100
BL	(0°-30°)	495.5	1.7	B1/500		
BM	(30°-60°)	687.6	2.3	B1/1000		
BH	(60°-80°)	283.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G4

Type II Medium



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CATALOG NUMBER: GLEON-SA0A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7
2.5°	3746.5	3662.2	3681.7	3627.2	3528.7	3326.5	3154.0	2990.7	2800.1	2793.7	2636.8
5°	5051.9	4980.6	4971.5	4861.3	4682.4	4338.9	4004.5	3623.3	3198.1	3167.0	2833.8
7.5°	6236.8	6179.7	6159.0	6028.1	5694.9	5360.4	4924.9	4364.8	3699.8	3642.8	3099.6
10°	7146.8	7119.6	7124.8	7031.4	6746.2	6435.1	5863.4	5149.1	4268.9	4180.8	3418.5
12.5°	7836.5	7843.0	7889.6	7832.6	7673.1	7442.4	6831.8	5985.3	4898.9	4778.4	3782.8
15°	8343.4	8375.8	8461.3	8532.6	8521.0	8321.3	7761.3	6834.4	5567.9	5434.3	4188.5
17.5°	8671.3	8707.6	8832.1	8990.2	9135.4	9088.8	8658.4	7653.7	6244.6	6090.3	4622.8
20°	8959.1	9001.9	9135.4	9344.2	9615.1	9673.4	9390.8	8448.4	6920.0	6732.0	5071.4
22.5°	9582.7	9581.4	9663.1	9784.9	10042.9	10193.3	10014.4	9186.0	7587.6	7391.8	5529.0
25°	10710.5	10667.7	10639.2	10543.3	10600.3	10693.7	10593.8	9875.7	8259.1	8060.8	5993.1
27.5°	12050.9	12076.9	11846.1	11588.1	11388.5	11292.6	11129.2	10514.8	8904.7	8686.9	6446.8
30°	13465.3	13473.1	13200.8	12871.5	12432.1	12067.8	11785.2	11125.3	9568.4	9331.2	6887.6
32.5°	14740.9	14690.3	14420.7	13972.1	13417.3	13007.7	12420.4	11807.2	10271.0	10041.6	7377.6
35°	15752.0	15692.4	15364.4	14956.1	14380.5	13968.3	13261.7	12487.8	11010.0	10785.7	7868.9
37.5°	16491.0	16421.0	16083.9	15663.9	15167.4	14927.6	14237.9	13228.0	11816.3	11575.2	8386.1
40°	16747.7	16686.7	16475.4	16168.2	15768.9	15714.5	15273.7	14079.7	12693.9	12437.3	8972.1
42.5°	16594.7	16535.1	16459.9	16356.2	16190.2	16242.1	16251.1	15050.7	13668.8	13416.0	9619.0
45°	15988.0	15934.8	16012.6	16164.3	16370.4	16627.1	17143.0	16094.3	14757.7	14488.1	10367.0
47.5°	15094.8	15055.9	15271.1	15649.6	16252.4	16960.3	17958.5	17191.0	15980.2	15730.0	11300.4
50°	13824.4	13817.9	14248.3	14939.2	15866.1	17121.0	18801.1	18438.1	17678.4	17415.3	12598.0
52.5°	11846.1	11859.1	12705.6	13811.4	15188.1	17012.1	19343.0	20040.4	19654.1	19380.6	13722.0
55°	9962.5	10040.3	10640.5	12235.0	14148.5	16607.6	19529.6	20788.4	20744.3	20485.1	14346.8
57.5°	8117.8	8259.1	8837.3	10326.8	12630.4	15675.6	19427.2	21112.5	21555.8	21357.5	15171.3
60°	6118.8	6183.6	6850.0	8242.2	10682.0	13974.7	18684.4	21288.8	22665.5	22528.1	16367.8
62.5°	3893.0	4055.0	4646.1	5989.2	8317.4	11612.8	17432.1	21286.2	24053.9	24129.1	17911.8
65°	2050.8	2240.1	2553.8	3711.5	5715.6	8974.7	15548.5	21086.6	25757.3	25862.3	19118.7
67.5°	1105.8	1160.2	1326.2	1926.4	3314.8	6079.9	12780.8	20101.3	26743.9	26882.6	19287.2
70°	808.9	838.7	901.0	1065.6	1668.4	3531.3	9326.0	17867.7	25472.1	25420.3	17136.6
72.5°	621.0	667.6	714.3	780.4	959.3	1884.9	5806.4	13991.6	20324.3	19982.1	12809.3
75°	490.0	497.8	563.9	623.5	719.5	1073.4	2578.5	8148.9	12404.9	11594.6	6642.5
77.5°	391.5	396.7	435.6	487.4	578.2	705.2	798.6	3205.9	3960.4	3533.9	1441.6
80°	232.0	245.0	324.1	375.9	479.7	444.7	291.7	696.1	618.4	560.0	242.4
82.5°	129.6	140.0	182.8	296.9	334.5	212.6	145.2	188.0	145.2	141.3	68.7
85°	0.0	6.5	118.0	184.1	136.1	46.7	60.9	62.2	42.8	40.2	27.2
87.5°	0.0	0.0	36.3	35.0	5.2	7.8	14.3	20.7	16.9	16.9	14.3
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: P321434

CATALOG NUMBER: GLEON-SA0A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7
2.5°	2559.0	2489.0	2356.8	2227.1	2118.2	2028.8	1948.4	1916.0	1890.1	1886.2	1865.5
5°	2673.1	2531.8	2279.0	2071.6	1932.9	1834.3	1750.1	1698.2	1658.0	1642.5	1628.2
7.5°	2845.5	2631.6	2268.6	2030.1	1864.2	1698.2	1542.7	1374.1	1269.1	1228.9	1205.6
10°	3055.5	2763.8	2307.5	2018.4	1728.0	1378.0	1120.1	906.2	819.3	790.8	783.0
12.5°	3300.5	2928.5	2374.9	1945.8	1437.7	978.8	772.6	700.0	680.6	671.5	671.5
15°	3581.8	3108.7	2422.9	1735.8	1063.0	740.2	668.9	635.2	614.5	602.8	604.1
17.5°	3869.6	3285.0	2399.6	1431.2	784.3	658.6	605.4	569.1	540.6	528.9	526.3
20°	4160.0	3448.3	2269.9	1065.6	663.7	597.6	538.0	497.8	469.3	457.6	455.0
22.5°	4460.8	3587.0	2041.8	781.7	596.3	530.2	471.9	431.7	404.5	394.1	388.9
25°	4753.7	3699.8	1722.9	632.6	532.8	466.7	410.9	373.4	348.7	338.3	337.1
27.5°	5027.3	3771.1	1353.4	558.7	477.1	409.6	359.1	325.4	304.6	296.9	295.6
30°	5273.6	3777.6	1000.8	504.3	427.8	360.4	313.7	283.9	265.8	258.0	255.4
32.5°	5522.5	3723.1	728.6	455.0	382.4	317.6	272.2	248.9	235.9	229.5	229.5
35°	5757.1	3597.4	567.8	412.2	338.3	276.1	239.8	223.0	215.2	208.7	208.7
37.5°	5986.6	3417.2	482.2	374.6	296.9	241.1	211.3	200.9	194.5	188.0	188.0
40°	6219.9	3190.3	438.2	339.6	263.2	213.9	188.0	178.9	172.4	167.2	165.9
42.5°	6506.4	2928.5	409.6	307.2	233.3	189.3	165.9	155.6	150.4	145.2	142.6
45°	6838.3	2702.9	386.3	274.8	208.7	168.5	143.9	133.5	125.7	119.3	118.0
47.5°	7316.6	2539.6	355.2	239.8	185.4	146.5	124.5	112.8	101.1	94.6	93.3
50°	7927.2	2404.7	315.0	208.7	162.0	124.5	103.7	89.4	79.1	72.6	72.6
52.5°	8230.6	2228.4	278.7	181.5	136.1	105.0	84.3	67.4	62.2	55.7	55.7
55°	8352.4	2093.6	242.4	154.3	112.8	86.9	66.1	51.9	48.0	44.1	42.8
57.5°	8694.7	2054.7	211.3	130.9	93.3	68.7	50.6	38.9	36.3	31.1	31.1
60°	9245.6	2074.2	182.8	111.5	75.2	53.2	37.6	29.8	27.2	22.0	22.0
62.5°	9840.7	2049.5	154.3	95.9	58.3	38.9	25.9	22.0	22.0	13.0	11.7
65°	9954.7	1825.3	132.2	79.1	45.4	28.5	16.9	14.3	19.4	2.6	0.0
67.5°	9239.1	1415.6	114.1	60.9	33.7	22.0	13.0	6.5	16.9	0.0	0.0
70°	7387.9	899.7	92.0	44.1	25.9	18.1	10.4	2.6	13.0	0.0	0.0
72.5°	5224.3	522.4	72.6	31.1	22.0	14.3	7.8	0.0	7.8	0.0	0.0
75°	2642.0	278.7	45.4	23.3	16.9	10.4	5.2	0.0	1.3	0.0	0.0
77.5°	571.7	129.6	28.5	16.9	11.7	6.5	2.6	0.0	0.0	0.0	0.0
80°	124.5	57.0	18.1	10.4	6.5	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	45.4	29.8	9.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.6	15.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	1.3	1.3	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

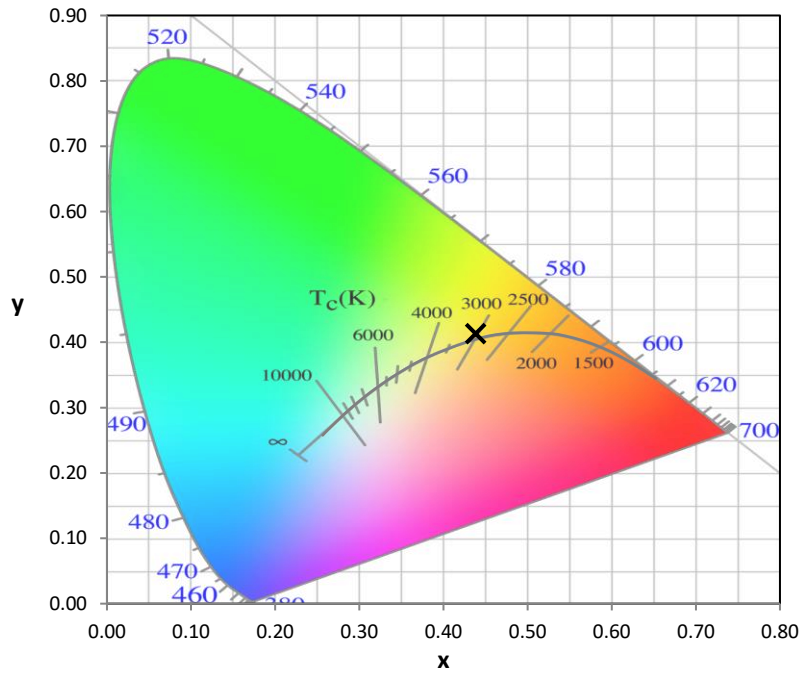
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

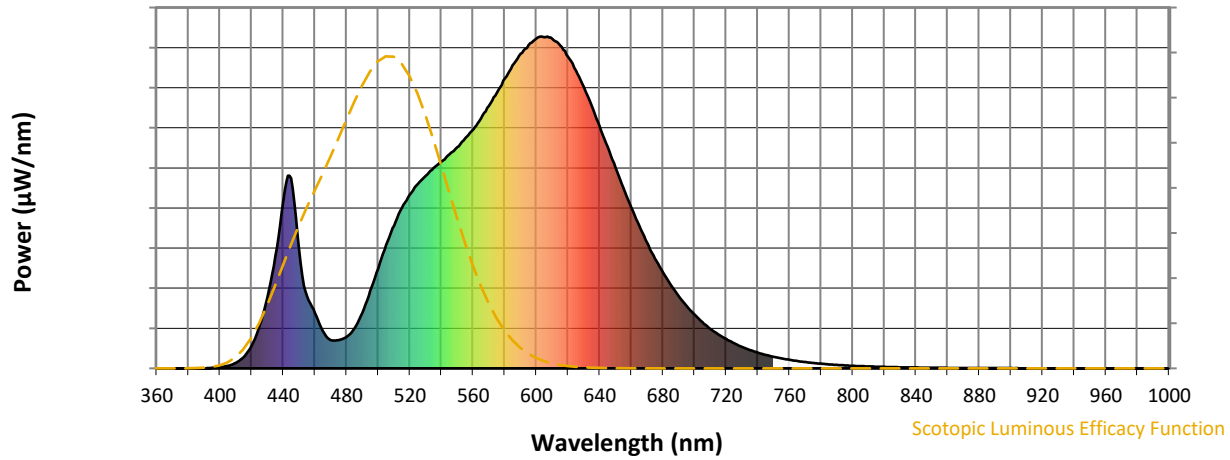


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



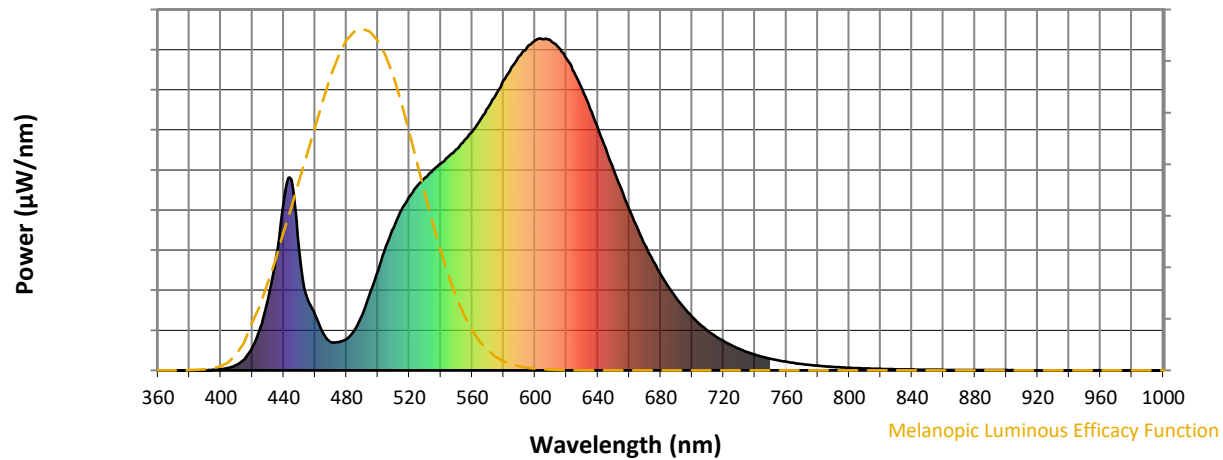
Scotopic Lumens: NR

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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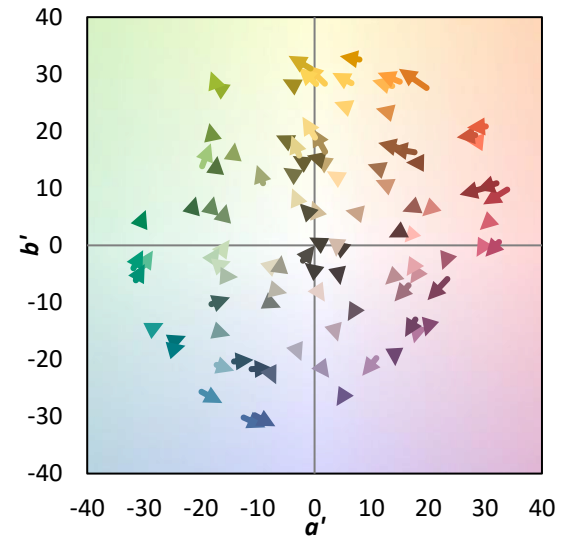
TM-30-18

Summary

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

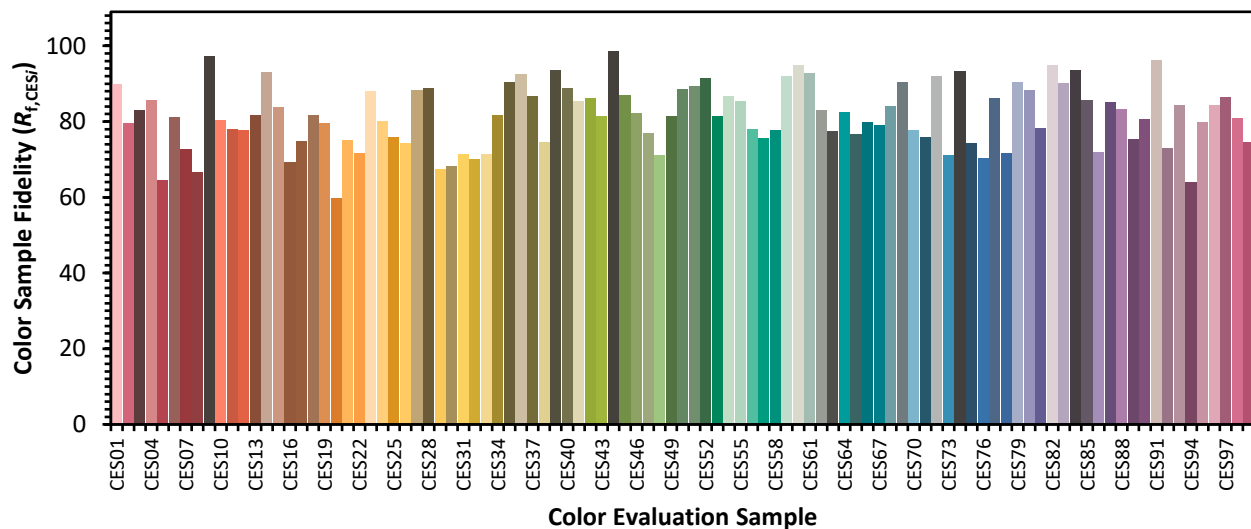


Color Vector Graphics

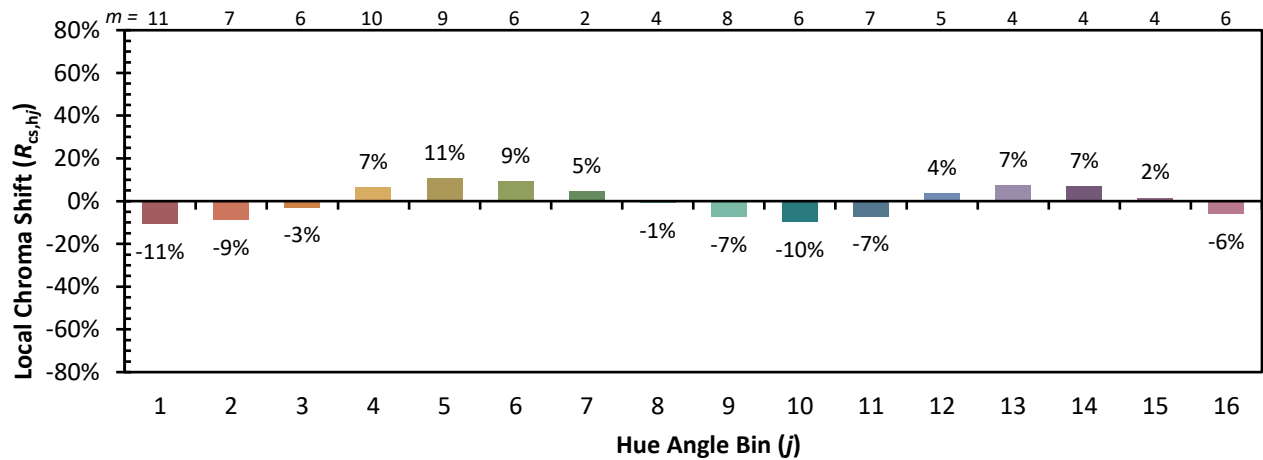


Individual Sample Fidelity Index ($R_{f,i}$)

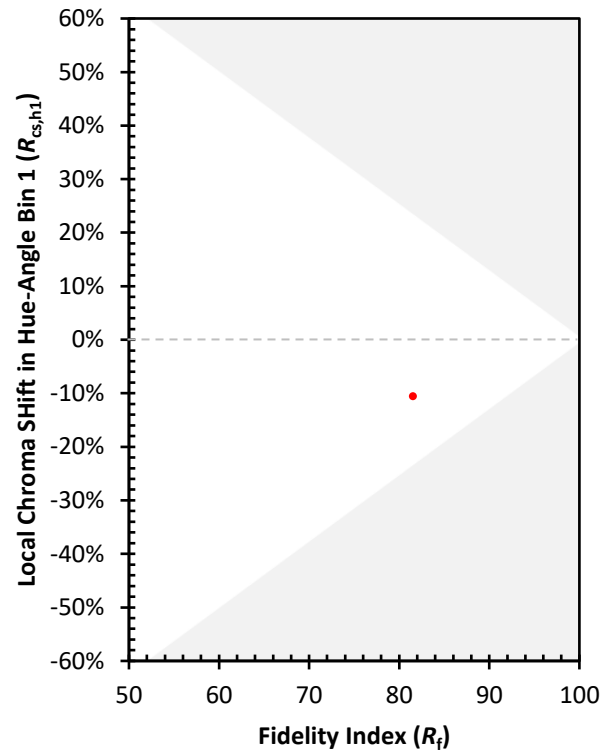
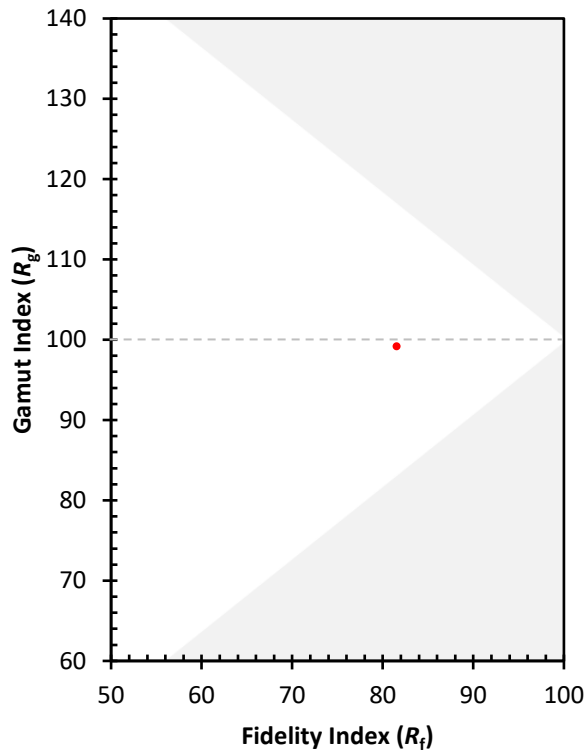
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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