

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: P321457

Luminaire Tested: **GLEON-SA3D-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321457
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-SA3D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA 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: 15194 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

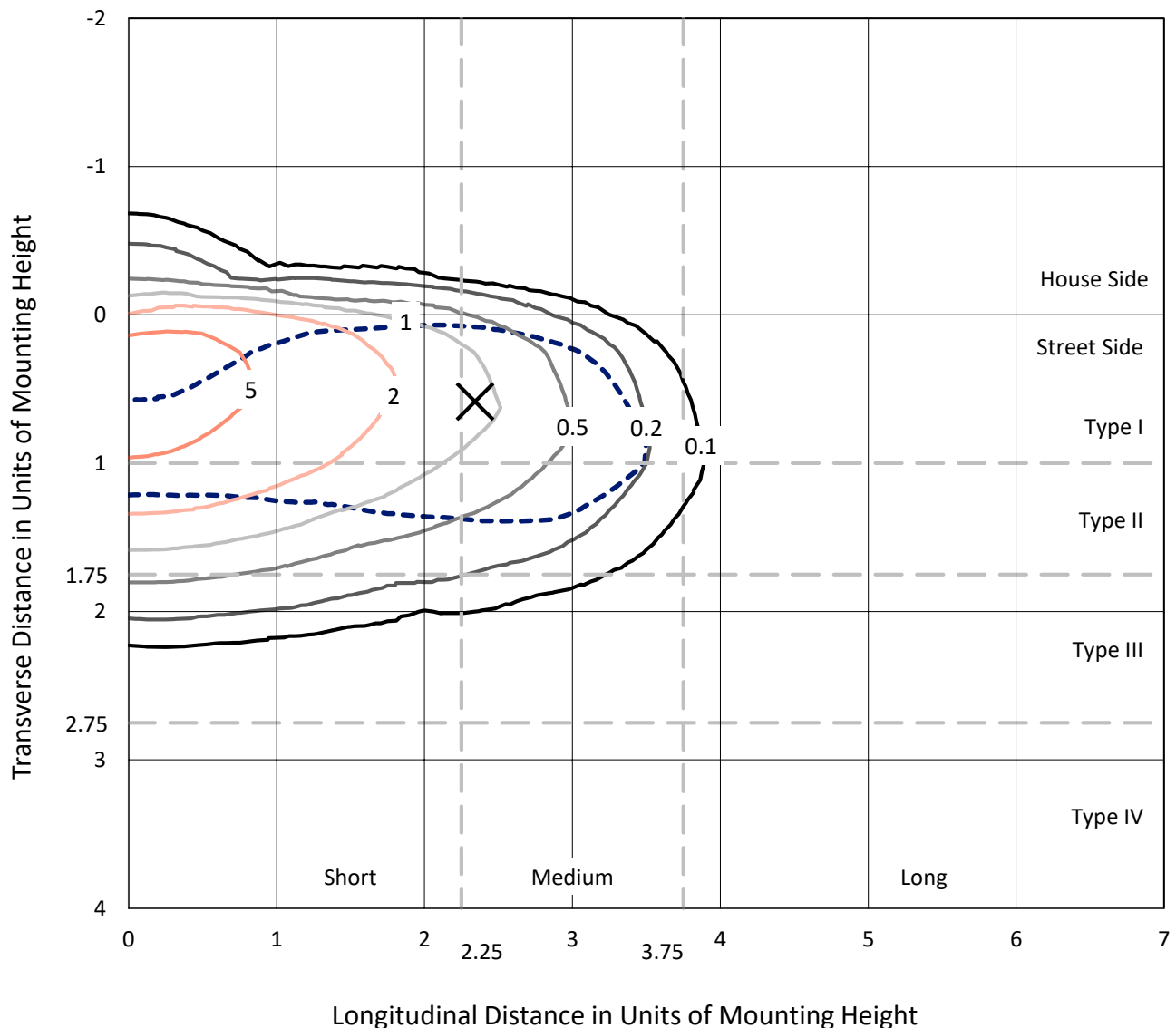
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

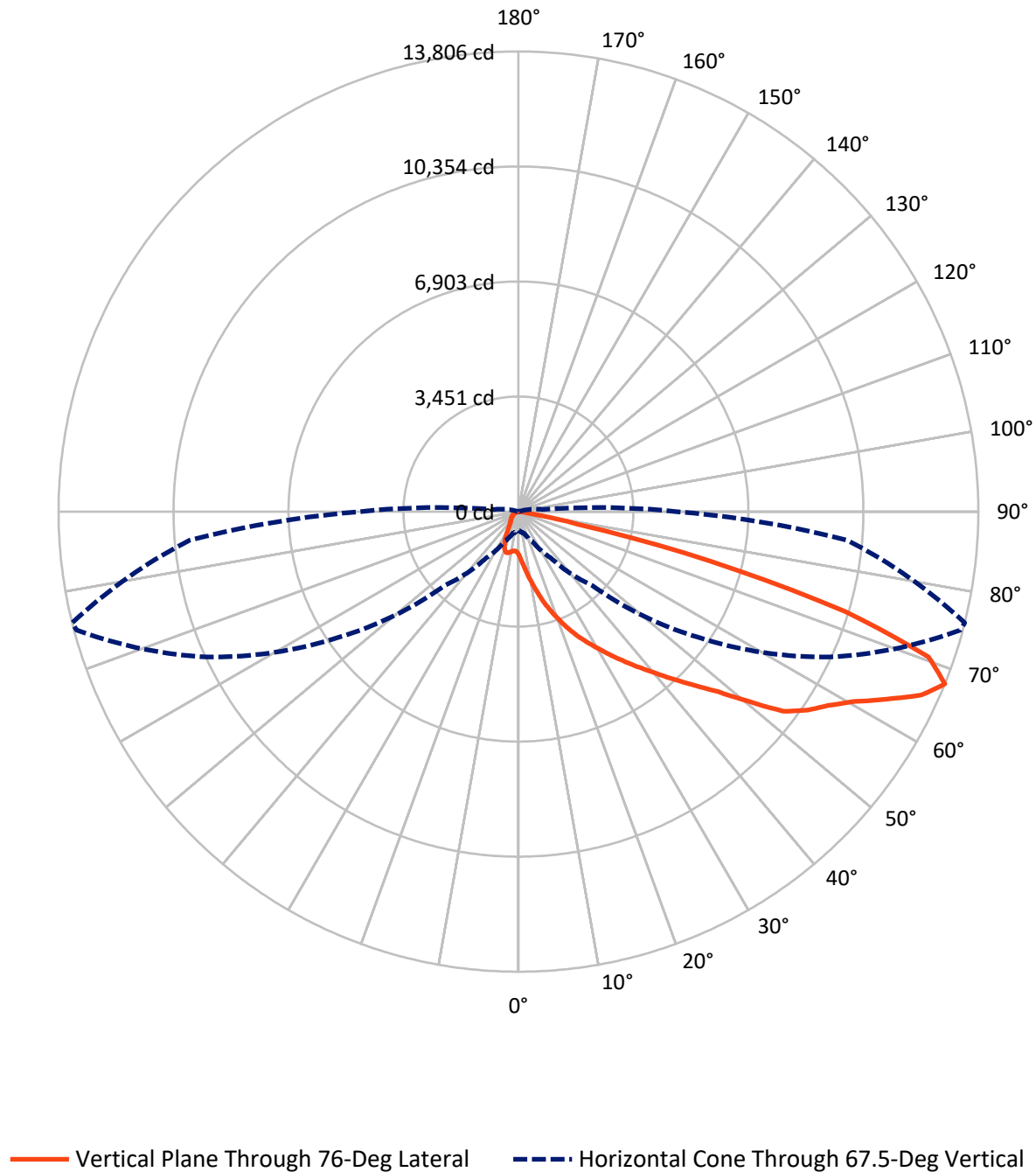
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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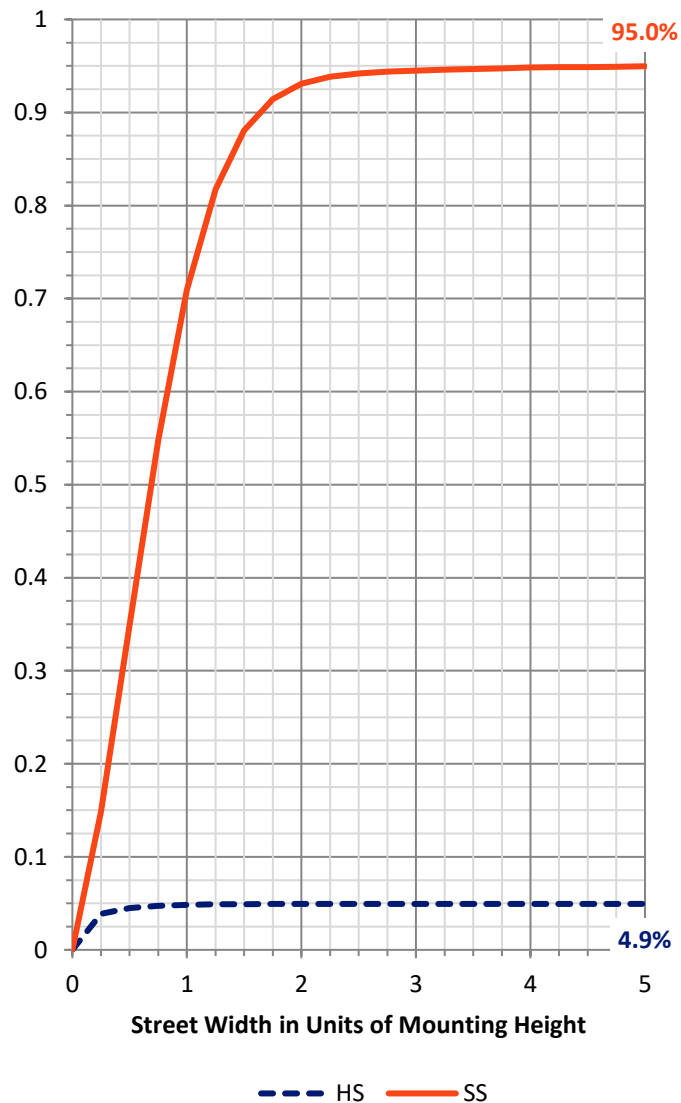
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.5	0.0	754.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14439.5	0.0	14439.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	15194.0	0.0	15194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	1.1
10°-20°	635.3	4.2
20°-30°	1292.7	8.5
30°-40°	2243.7	14.8
40°-50°	3170.1	20.9
50°-60°	3595.0	23.7
60°-70°	2981.7	19.6
70°-80°	1080.1	7.1
80°-90°	35.0	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°	15194.0	100.0
0°-180°	15194.0	100.0

Coefficient of Utilization



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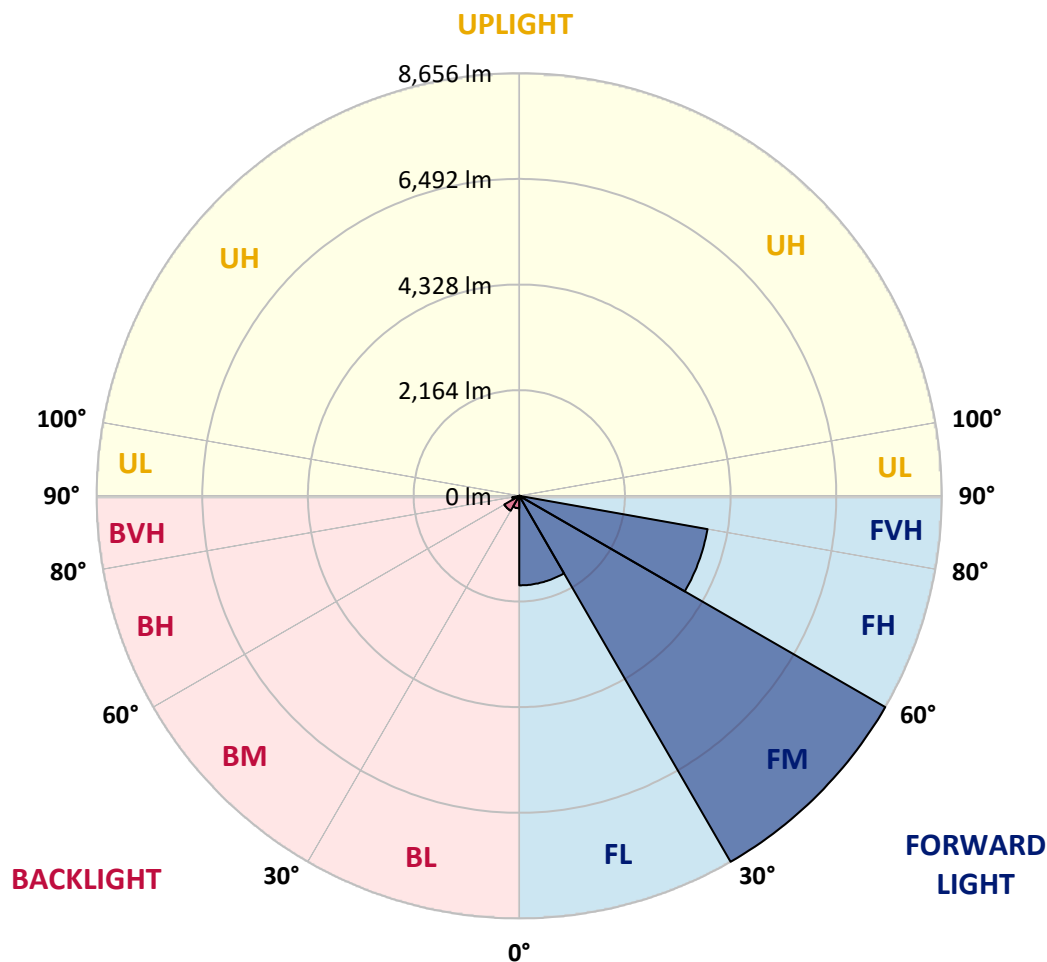
CATALOG NUMBER: GLEON-SA3D-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1833.9	12.1			
FM	(30°-60°)	8655.7	57.0			
FH	(60°-80°)	3916.0	25.8			G2/5000
FVH	(80°-90°)	33.9	0.2			G1/100
BL	(0°-30°)	254.5	1.7	B1/500		
BM	(30°-60°)	353.1	2.3	B1/1000		
BH	(60°-80°)	145.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G2

Type II Medium





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CATALOG NUMBER: GLEON-SA3D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1924.0	1880.7	1890.7	1862.8	1812.2	1708.3	1619.8	1535.9	1438.0	1434.7	1354.1
5°	2594.4	2557.8	2553.1	2496.6	2404.7	2228.3	2056.5	1860.8	1642.4	1626.4	1455.3
7.5°	3202.9	3173.6	3163.0	3095.7	2924.6	2752.9	2529.2	2241.6	1900.0	1870.8	1591.8
10°	3670.3	3656.3	3659.0	3611.0	3464.6	3304.8	3011.2	2644.4	2192.3	2147.0	1755.6
12.5°	4024.5	4027.8	4051.8	4022.5	3940.6	3822.1	3508.5	3073.8	2515.9	2454.0	1942.7
15°	4284.8	4301.4	4345.3	4382.0	4376.0	4273.4	3985.8	3509.8	2859.4	2790.8	2151.0
17.5°	4453.2	4471.8	4535.8	4617.0	4691.5	4667.6	4446.5	3930.6	3206.9	3127.7	2374.1
20°	4601.0	4623.0	4691.5	4798.7	4937.9	4967.8	4822.7	4338.7	3553.8	3457.2	2604.4
22.5°	4921.2	4920.6	4962.5	5025.1	5157.6	5234.8	5142.9	4717.5	3896.6	3796.1	2839.4
25°	5500.4	5478.5	5463.8	5414.5	5443.8	5491.8	5440.5	5071.7	4241.5	4139.6	3077.8
27.5°	6188.8	6202.1	6083.6	5951.1	5848.6	5799.3	5715.5	5399.9	4573.0	4461.2	3310.8
30°	6915.1	6919.1	6779.3	6610.2	6384.5	6197.5	6052.3	5713.5	4913.9	4792.1	3537.1
32.5°	7570.2	7544.3	7405.8	7175.4	6890.5	6680.1	6378.5	6063.6	5274.7	5156.9	3788.8
35°	8089.5	8058.9	7890.5	7680.8	7385.2	7173.5	6810.6	6413.2	5654.2	5539.0	4041.1
37.5°	8469.0	8433.1	8260.0	8044.3	7789.3	7666.1	7311.9	6793.3	6068.3	5944.5	4306.7
40°	8600.8	8569.5	8461.0	8303.2	8098.2	8070.2	7843.9	7230.7	6519.0	6387.2	4607.7
42.5°	8522.3	8491.6	8453.0	8399.8	8314.5	8341.2	8345.8	7729.4	7019.7	6889.8	4939.9
45°	8210.7	8183.4	8223.3	8301.2	8407.1	8538.9	8803.9	8265.3	7578.9	7440.4	5324.0
47.5°	7752.0	7732.0	7842.5	8036.9	8346.5	8710.0	9222.6	8828.5	8206.7	8078.2	5803.3
50°	7099.6	7096.2	7317.3	7672.1	8148.1	8792.6	9655.4	9469.0	9078.8	8943.7	6469.8
52.5°	6083.6	6090.3	6525.0	7092.9	7799.9	8736.6	9933.7	10291.8	10093.4	9953.0	7047.0
55°	5116.3	5156.2	5464.5	6283.3	7266.0	8528.9	10029.5	10676.0	10653.3	10520.2	7367.9
57.5°	4168.9	4241.5	4538.4	5303.4	6486.4	8050.2	9976.9	10842.4	11070.1	10968.2	7791.3
60°	3142.3	3175.6	3517.8	4232.8	5485.8	7176.8	9595.4	10932.9	11640.0	11569.4	8405.8
62.5°	1999.2	2082.5	2386.0	3075.8	4271.4	5963.8	8952.3	10931.6	12353.0	12391.6	9198.7
65°	1053.2	1150.4	1311.5	1906.0	2935.3	4609.0	7985.0	10829.1	13227.8	13281.7	9818.5
67.5°	567.9	595.8	681.1	989.3	1702.3	3122.4	6563.6	10323.1	13734.4	13805.6	9905.0
70°	415.4	430.7	462.7	547.2	856.8	1813.5	4789.4	9176.0	13081.3	13054.7	8800.5
72.5°	318.9	342.9	366.8	400.8	492.7	968.0	2981.9	7185.4	10437.6	10261.9	6578.3
75°	251.7	255.6	289.6	320.2	369.5	551.2	1324.2	4184.9	6370.6	5954.5	3411.3
77.5°	201.1	203.7	223.7	250.3	296.9	362.2	410.1	1646.4	2033.9	1814.8	740.3
80°	119.2	125.8	166.4	193.1	246.3	228.4	149.8	357.5	317.6	287.6	124.5
82.5°	66.6	71.9	93.9	152.5	171.8	109.2	74.6	96.5	74.6	72.6	35.3
85°	0.0	3.3	60.6	94.5	69.9	24.0	31.3	32.0	22.0	20.6	14.0
87.5°	0.0	0.0	18.6	18.0	2.7	4.0	7.3	10.7	8.7	8.7	7.3
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: P321457

CATALOG NUMBER: GLEON-SA3D-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1314.2	1278.2	1210.3	1143.8	1087.8	1041.9	1000.6	984.0	970.7	968.7	958.0
5°	1372.8	1300.2	1170.4	1063.9	992.6	942.0	898.8	872.1	851.5	843.5	836.2
7.5°	1461.3	1351.5	1165.1	1042.6	957.3	872.1	792.2	705.7	651.8	631.1	619.1
10°	1569.2	1419.4	1185.0	1036.6	887.4	707.7	575.2	465.4	420.8	406.1	402.1
12.5°	1695.0	1503.9	1219.7	999.3	738.3	502.6	396.8	359.5	349.5	344.9	344.9
15°	1839.5	1596.5	1244.3	891.4	545.9	380.1	343.5	326.2	315.6	309.6	310.2
17.5°	1987.3	1687.0	1232.3	735.0	402.8	338.2	310.9	292.3	277.6	271.6	270.3
20°	2136.4	1770.9	1165.7	547.2	340.9	306.9	276.3	255.6	241.0	235.0	233.7
22.5°	2290.8	1842.1	1048.6	401.4	306.2	272.3	242.3	221.7	207.7	202.4	199.7
25°	2441.3	1900.0	884.8	324.9	273.6	239.7	211.0	191.7	179.1	173.8	173.1
27.5°	2581.8	1936.7	695.0	286.9	245.0	210.4	184.4	167.1	156.5	152.5	151.8
30°	2708.3	1940.0	514.0	259.0	219.7	185.1	161.1	145.8	136.5	132.5	131.2
32.5°	2836.1	1912.0	374.2	233.7	196.4	163.1	139.8	127.8	121.2	117.8	117.8
35°	2956.6	1847.5	291.6	211.7	173.8	141.8	123.2	114.5	110.5	107.2	107.2
37.5°	3074.4	1754.9	247.7	192.4	152.5	123.8	108.5	103.2	99.9	96.5	96.5
40°	3194.3	1638.4	225.0	174.4	135.1	109.8	96.5	91.9	88.5	85.9	85.2
42.5°	3341.4	1503.9	210.4	157.8	119.8	97.2	85.2	79.9	77.2	74.6	73.2
45°	3511.8	1388.1	198.4	141.1	107.2	86.5	73.9	68.6	64.6	61.2	60.6
47.5°	3757.5	1304.2	182.4	123.2	95.2	75.2	63.9	57.9	51.9	48.6	47.9
50°	4071.1	1235.0	161.8	107.2	83.2	63.9	53.3	45.9	40.6	37.3	37.3
52.5°	4226.8	1144.4	143.1	93.2	69.9	53.9	43.3	34.6	32.0	28.6	28.6
55°	4289.4	1075.2	124.5	79.2	57.9	44.6	34.0	26.6	24.6	22.6	22.0
57.5°	4465.2	1055.2	108.5	67.2	47.9	35.3	26.0	20.0	18.6	16.0	16.0
60°	4748.1	1065.2	93.9	57.3	38.6	27.3	19.3	15.3	14.0	11.3	11.3
62.5°	5053.7	1052.6	79.2	49.3	30.0	20.0	13.3	11.3	11.3	6.7	6.0
65°	5112.3	937.4	67.9	40.6	23.3	14.6	8.7	7.3	10.0	1.3	0.0
67.5°	4744.8	727.0	58.6	31.3	17.3	11.3	6.7	3.3	8.7	0.0	0.0
70°	3794.1	462.0	47.3	22.6	13.3	9.3	5.3	1.3	6.7	0.0	0.0
72.5°	2683.0	268.3	37.3	16.0	11.3	7.3	4.0	0.0	4.0	0.0	0.0
75°	1356.8	143.1	23.3	12.0	8.7	5.3	2.7	0.0	0.7	0.0	0.0
77.5°	293.6	66.6	14.6	8.7	6.0	3.3	1.3	0.0	0.0	0.0	0.0
80°	63.9	29.3	9.3	5.3	3.3	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.3	15.3	4.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	8.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.7	0.7	0.7	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

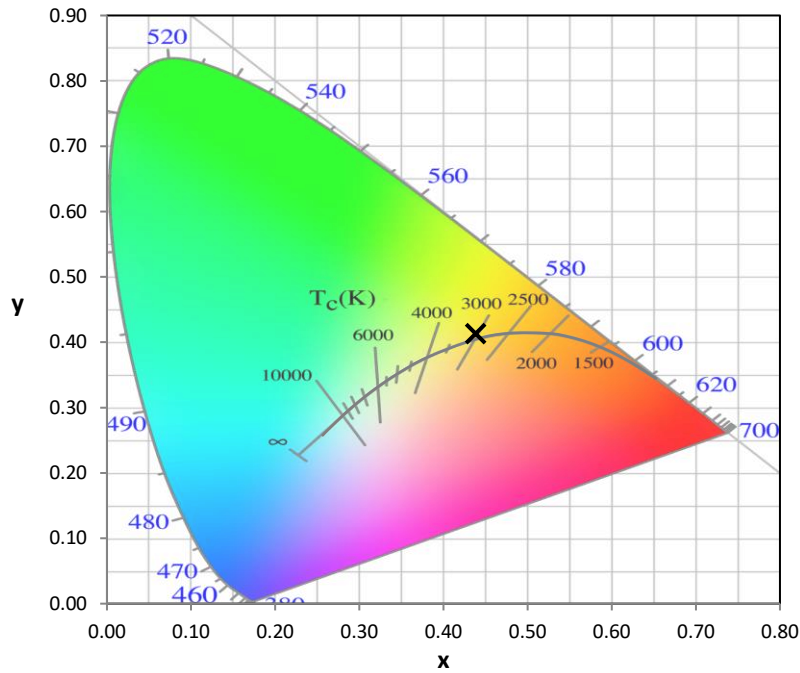
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

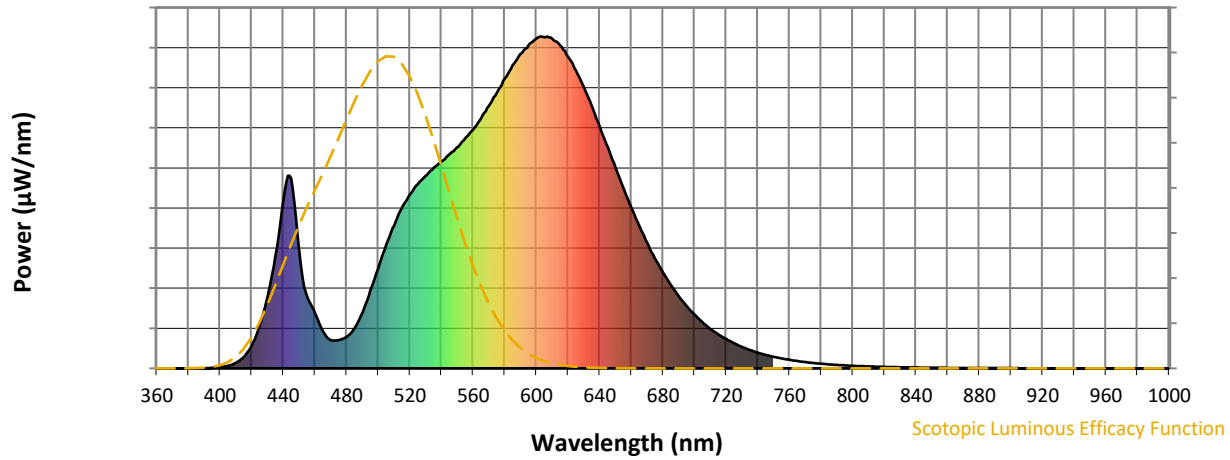


Photopic Lumens: NR

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



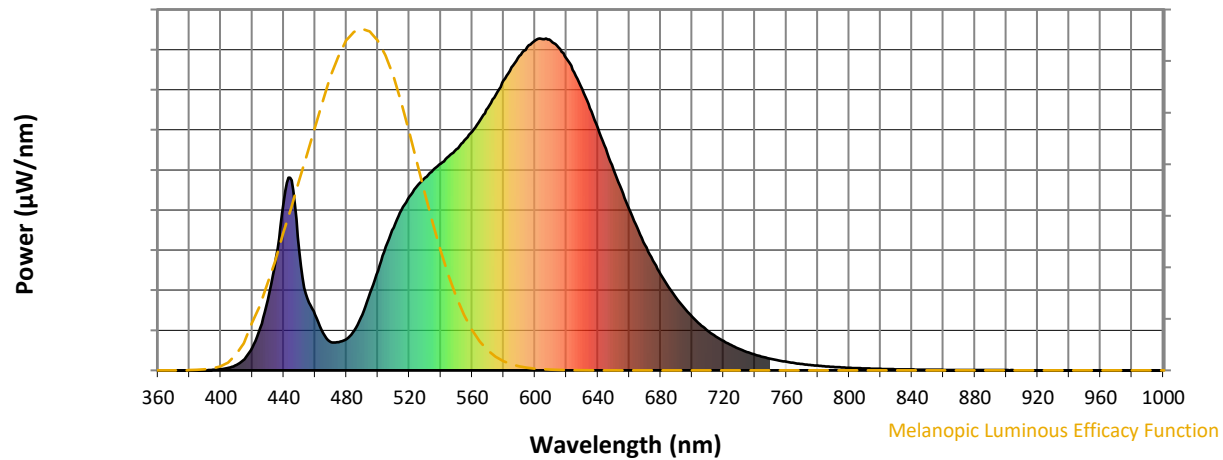
Scotopic Lumens: NR

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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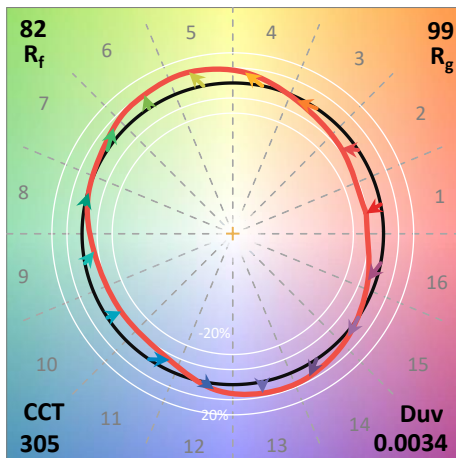
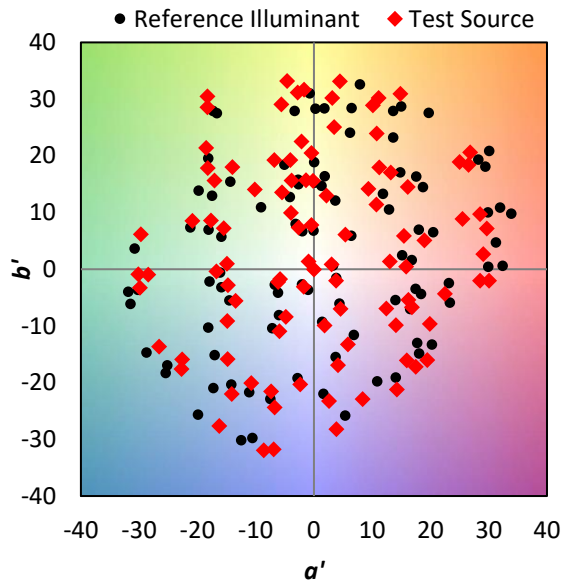
TM-30-18

Summary

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



Color Vector Graphics

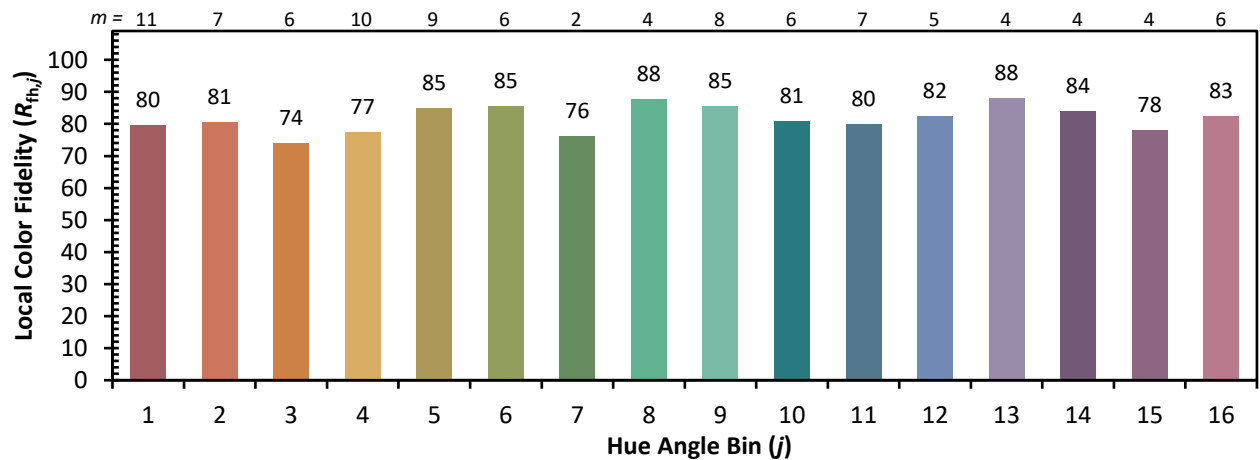
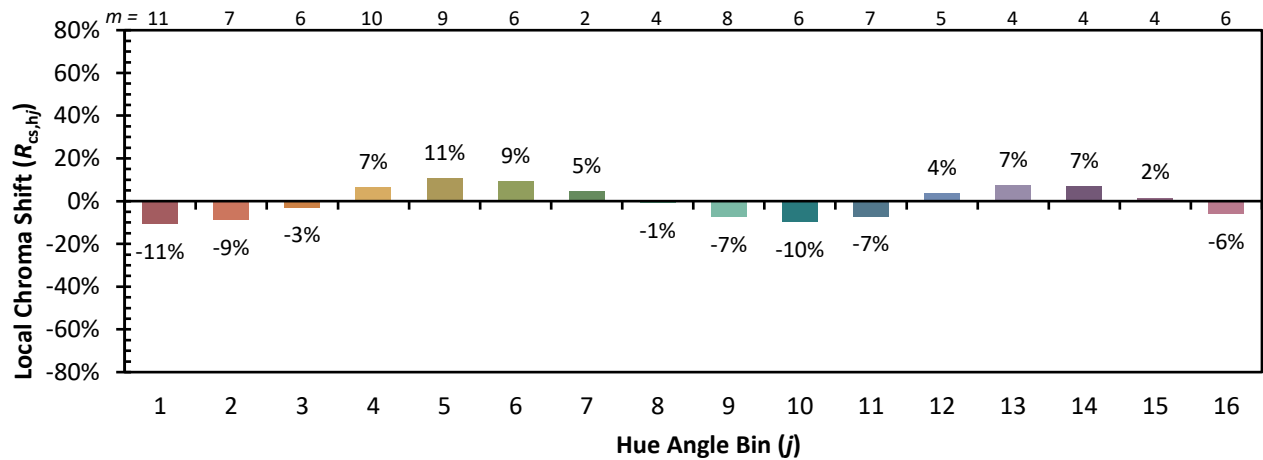


Individual Sample Fidelity Index ($R_{f,i}$)

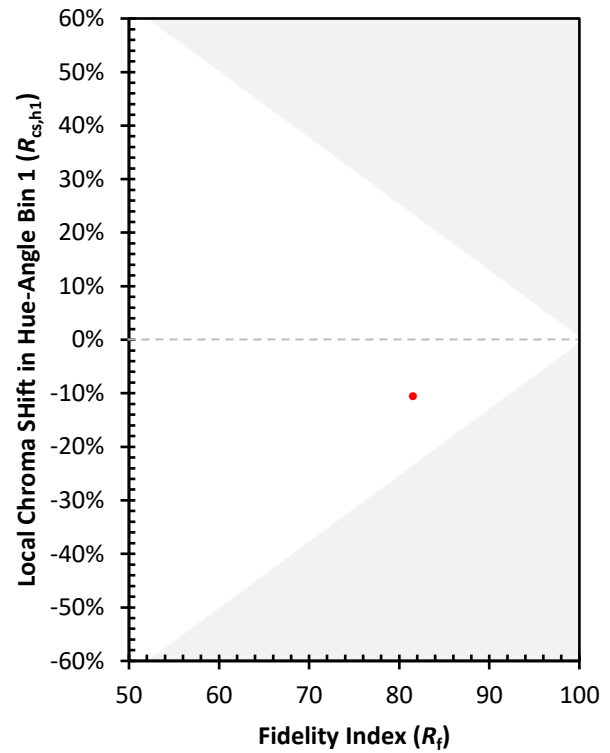
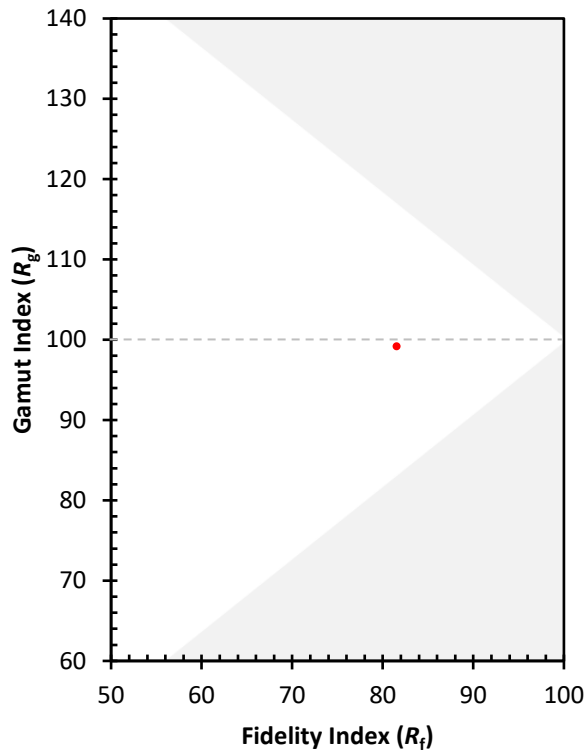
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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