

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: P323382

Luminaire Tested: **GLEON-SA8D-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40929 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

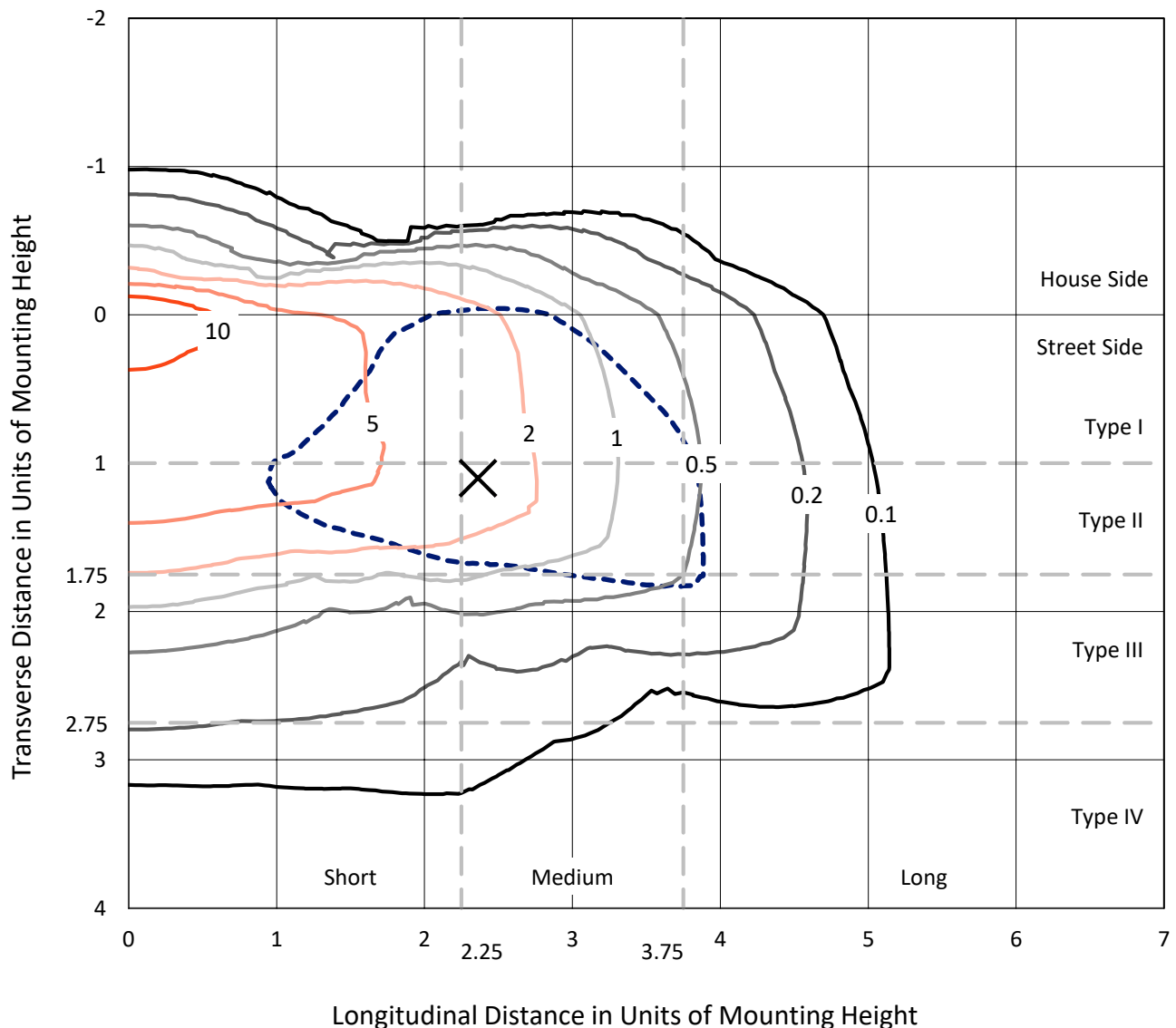
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

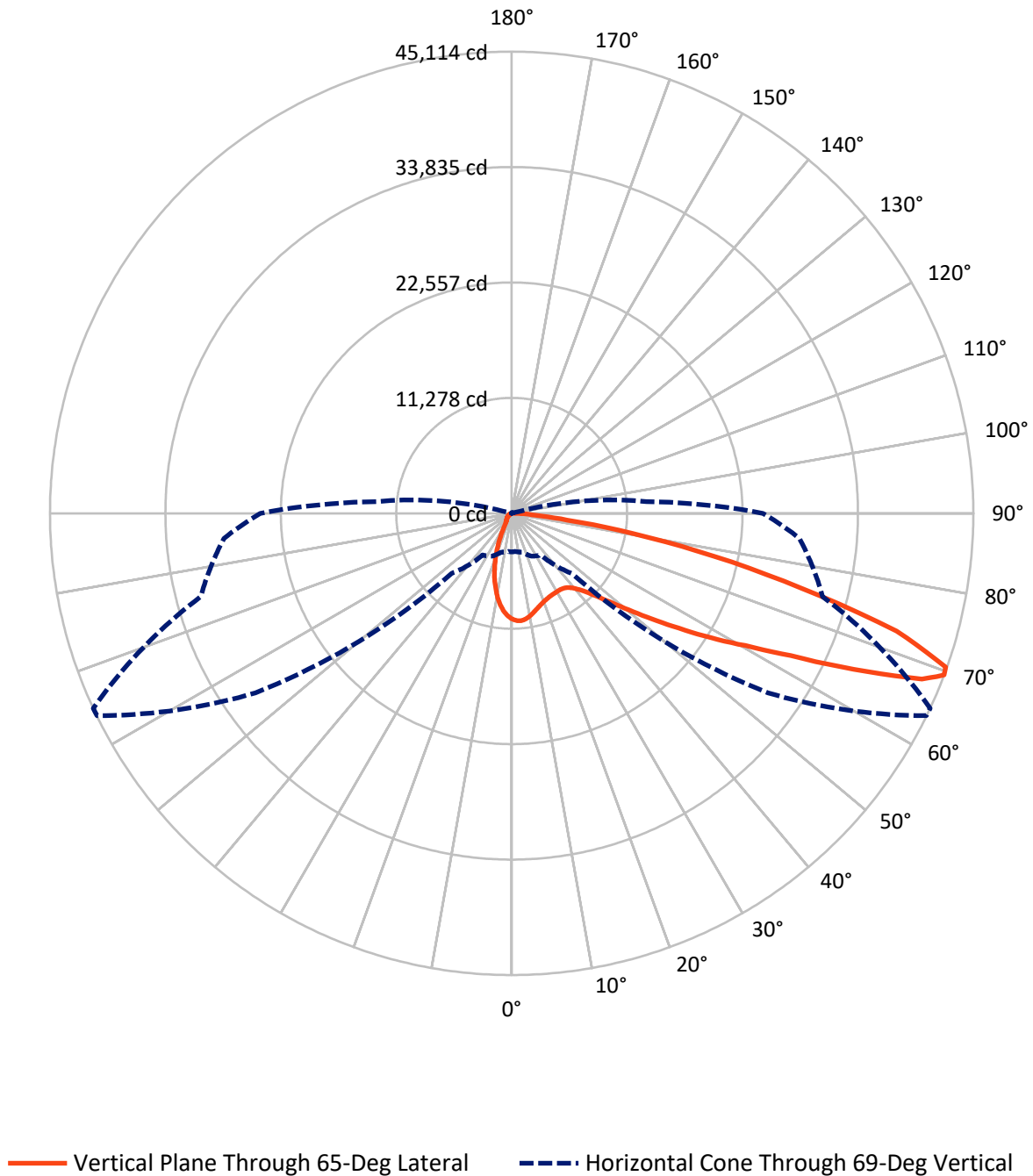
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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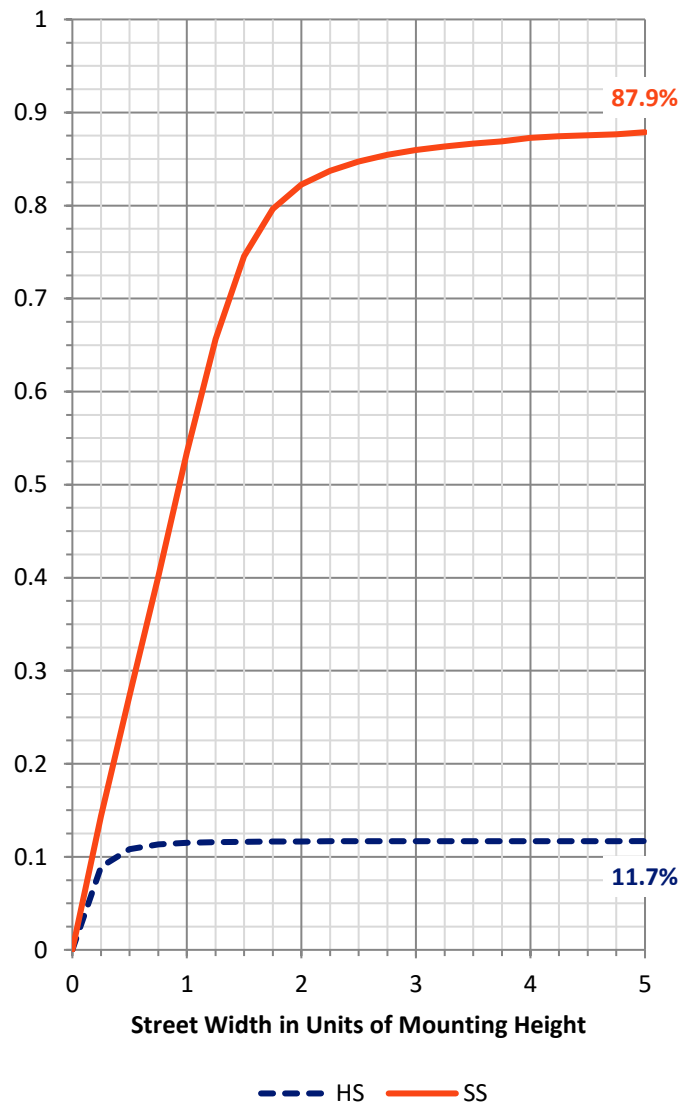
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4824.6	0.0	4824.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	36104.5	0.0	36104.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	40929.0	0.0	40929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.9	2.1
10°-20°	1893.3	4.6
20°-30°	2622.2	6.4
30°-40°	3656.2	8.9
40°-50°	5683.0	13.9
50°-60°	9123.4	22.3
60°-70°	10320.0	25.2
70°-80°	6061.1	14.8
80°-90°	705.1	1.7
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°	40929.0	100.0
0°-180°	40929.0	100.0

Coefficient of Utilization



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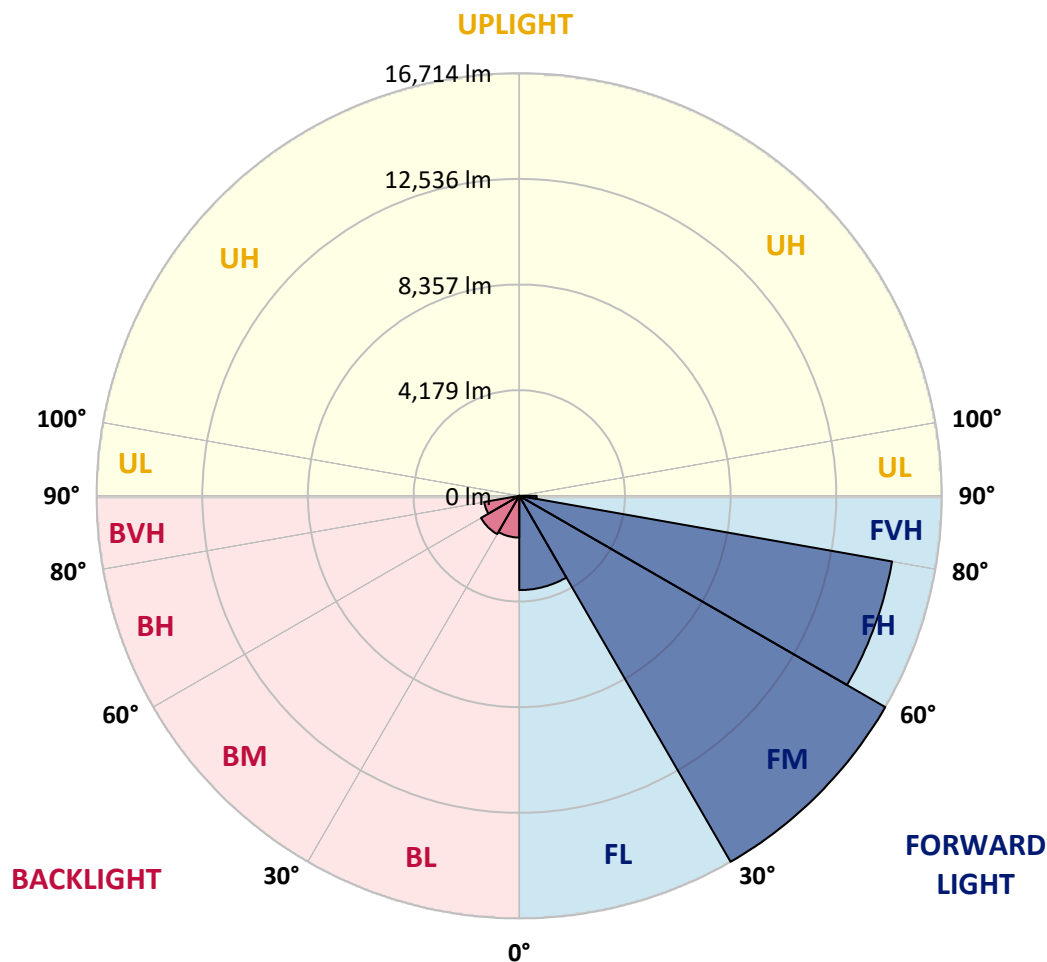
CATALOG NUMBER: GLEON-SA8D-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3729.6	9.1			
FM	(30°-60°)	16714.2	40.8			
FH	(60°-80°)	14971.4	36.6			G5
FVH	(80°-90°)	689.2	1.7			G4/750
BL	(0°-30°)	1650.8	4.0	B3/2500		
BM	(30°-60°)	1748.3	4.3	B2/2500		
BH	(60°-80°)	1409.6	3.4	B3/2500		G3/2500
BVH	(80°-90°)	15.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P323382

CATALOG NUMBER: GLEON-SA8D-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8
2.5°	10434.6	10408.6	10429.4	10474.5	10497.0	10497.0	10514.3	10493.5	10500.4	10450.2	10377.5
5°	9781.7	9741.9	9799.0	9925.4	10081.3	10214.7	10412.1	10516.0	10526.4	10528.1	10443.3
7.5°	9078.6	9042.2	9127.0	9276.0	9476.9	9724.5	10069.2	10370.5	10387.9	10550.7	10488.3
10°	8507.0	8481.1	8579.8	8739.1	8974.6	9251.7	9674.3	10093.4	10143.7	10503.9	10481.4
12.5°	8053.3	8032.5	8126.0	8309.6	8550.3	8856.9	9298.5	9785.2	9852.7	10398.3	10446.7
15°	7722.5	7719.0	7797.0	7973.6	8240.3	8526.1	8978.1	9499.4	9577.3	10283.9	10441.5
17.5°	7549.3	7554.5	7611.6	7762.3	7990.9	8275.0	8707.9	9258.7	9343.5	10181.8	10467.5
20°	7532.0	7537.2	7568.3	7653.2	7838.5	8089.6	8488.0	9056.0	9144.4	10105.6	10509.1
22.5°	7684.4	7680.9	7689.6	7680.9	7784.8	7975.3	8342.5	8900.2	9002.3	10055.3	10542.0
25°	7977.1	7971.9	7968.4	7904.3	7835.1	7937.2	8281.9	8811.8	8908.8	10019.0	10561.0
27.5°	8384.1	8380.6	8375.4	8269.8	8061.9	7997.9	8288.8	8778.9	8860.3	9989.5	10557.6
30°	8919.2	8943.5	8936.5	8789.3	8465.5	8183.2	8361.6	8761.6	8832.6	9932.4	10521.2
32.5°	9547.9	9596.4	9634.5	9476.9	9071.6	8550.3	8529.5	8780.7	8832.6	9889.1	10455.4
35°	10200.8	10263.2	10403.4	10348.0	9814.6	9102.8	8818.8	8895.0	8938.3	9913.3	10424.2
37.5°	10843.3	10917.8	11222.6	11383.7	10787.9	9833.7	9269.1	9177.3	9199.8	10060.5	10458.9
40°	11589.8	11702.4	12164.8	12424.6	11950.0	10812.2	9942.8	9662.2	9670.9	10384.4	10619.9
42.5°	12570.0	12686.1	13186.6	13593.6	13259.3	12048.7	10857.2	10403.4	10394.8	10990.6	10999.2
45°	13765.0	13886.3	14404.1	14856.1	14705.5	13513.9	12028.0	11485.9	11475.5	11946.6	11717.9
47.5°	15119.4	15238.9	15701.3	16167.2	16330.0	15225.0	13519.1	12963.2	12938.9	13274.9	12828.1
50°	16281.5	16359.4	16785.5	17412.4	18146.7	17327.5	15374.0	14838.8	14812.8	15039.7	14457.8
52.5°	16704.1	16749.1	17182.1	18060.1	19892.5	20174.8	17810.7	17121.4	17102.4	17201.1	16627.8
55°	15848.5	15929.9	16461.6	17764.0	20838.1	23392.6	20886.6	19947.9	19804.1	19591.1	18896.6
57.5°	13517.4	13647.3	14218.8	15950.7	20396.4	25945.4	25406.8	23144.9	22933.6	21631.3	20741.1
60°	10128.1	10287.4	10761.9	12630.7	18039.3	26854.6	30346.1	26707.4	26231.2	23255.8	22436.6
62.5°	6950.1	7029.7	7351.9	8569.4	13285.3	25365.2	34478.4	31478.8	30609.4	25022.3	24270.7
65°	5308.2	5335.9	5467.6	5886.7	7911.3	20604.3	36122.0	37774.2	36722.9	27135.2	26174.0
67.5°	4277.8	4255.2	4437.1	5036.3	5297.8	12570.0	34204.8	43730.2	43238.3	29959.9	28089.5
69°	3772.1	3740.9	3926.2	4622.4	4975.7	8309.6	30578.2	45082.8	45113.9	31451.1	28221.1
70°	3394.5	3415.3	3598.9	4376.5	4866.6	6522.3	27114.4	44738.1	44984.0	32008.7	27431.4
72.5°	2267.0	2322.5	2691.4	3633.5	4679.6	4935.9	16371.5	38390.7	39336.4	30753.1	23534.6
75°	1278.1	1319.7	1757.9	2739.8	4409.4	4700.3	8647.3	28283.4	29197.9	25716.8	18148.4
77.5°	626.9	649.5	994.1	1768.3	3687.2	4478.7	4904.7	19211.8	20256.2	16785.5	10264.9
80°	265.0	277.1	497.1	1091.1	2635.9	4274.3	3642.2	11823.6	11953.5	6576.0	2734.6
82.5°	102.2	105.6	209.6	680.6	1674.7	3332.2	3046.4	5606.1	5471.0	1238.3	623.5
85°	12.1	13.9	76.2	408.7	931.8	1714.6	2474.9	2416.0	2235.9	245.9	320.4
87.5°	0.0	0.0	5.2	124.7	277.1	803.6	1286.8	1002.8	904.0	79.7	166.3
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: P323382

CATALOG NUMBER: GLEON-SA8D-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8	10342.8
2.5°	10316.9	10299.5	10206.0	10070.9	9942.8	9783.4	9631.0	9539.2	9466.5	9418.0	9475.2
5°	10344.6	10268.4	9984.3	9620.6	9263.9	8862.1	8488.0	8171.0	8046.3	7907.8	7970.1
7.5°	10335.9	10192.2	9681.2	9033.5	8378.9	7701.7	7060.9	6567.3	6311.0	6059.9	6124.0
10°	10292.6	10050.1	9276.0	8316.5	7336.3	6363.0	5453.7	4762.7	4376.5	4026.6	4076.9
12.5°	10197.4	9859.6	8798.0	7495.6	6184.6	4901.2	3836.1	2951.1	2476.6	2267.0	2293.0
15°	10140.2	9674.3	8292.3	6664.3	4954.9	3413.5	2345.0	1744.0	1527.5	1458.2	1466.9
17.5°	10112.5	9495.9	7769.2	5713.5	3697.6	2173.5	1515.4	1337.0	1290.3	1278.1	1281.6
20°	10084.8	9315.8	7230.6	4773.1	2547.6	1461.7	1245.2	1193.3	1176.0	1160.4	1163.8
22.5°	10038.0	9142.6	6652.2	3820.5	1718.0	1186.3	1122.3	1072.0	1035.7	1016.6	1020.1
25°	9980.9	8960.8	6061.6	2845.5	1253.9	1058.2	997.6	926.6	883.3	848.6	850.4
27.5°	9889.1	8737.4	5452.0	2071.3	1053.0	947.3	865.9	788.0	715.3	675.4	675.4
30°	9760.9	8484.5	4774.8	1482.5	943.9	838.2	739.5	642.5	564.6	528.2	524.8
32.5°	9618.9	8221.3	4090.7	1124.0	857.3	736.1	623.5	521.3	452.0	422.6	420.8
35°	9497.7	7937.2	3408.4	942.1	770.7	637.3	514.4	427.8	372.4	348.1	346.4
37.5°	9419.7	7653.2	2743.3	841.7	692.8	545.5	431.2	353.3	313.5	294.4	292.7
40°	9407.6	7441.9	2135.4	765.5	620.0	464.1	360.2	299.6	263.2	242.5	240.7
42.5°	9565.2	7320.7	1638.4	701.4	545.5	393.1	306.5	256.3	218.2	197.4	195.7
45°	9979.1	7358.8	1260.8	644.3	471.1	332.5	259.8	213.0	178.4	162.8	159.3
47.5°	10734.2	7622.0	1002.8	587.1	400.1	282.3	221.7	176.7	147.2	131.6	129.9
50°	12078.2	8240.3	838.2	524.8	334.3	240.7	183.6	143.7	119.5	105.6	103.9
52.5°	13862.0	9341.8	748.2	464.1	277.1	204.4	150.7	114.3	93.5	83.1	81.4
55°	15829.4	10675.4	689.3	398.3	226.9	169.7	119.5	90.1	72.7	64.1	60.6
57.5°	17750.1	11830.5	633.9	334.3	188.8	138.6	95.3	71.0	57.2	48.5	46.8
60°	19514.9	12892.2	569.8	268.4	154.1	109.1	74.5	55.4	45.0	36.4	36.4
62.5°	21404.4	13713.1	481.5	209.6	126.4	83.1	60.6	50.2	36.4	31.2	29.4
65°	23406.5	14322.7	377.6	162.8	98.7	62.3	50.2	52.0	29.4	22.5	20.8
67.5°	24885.5	14201.5	278.8	128.2	76.2	48.5	48.5	55.4	26.0	17.3	15.6
69°	24559.9	13216.0	233.8	110.8	65.8	41.6	45.0	55.4	24.2	15.6	13.9
70°	23616.0	12124.9	206.1	98.7	58.9	38.1	43.3	53.7	22.5	15.6	13.9
72.5°	19667.3	9132.2	161.1	74.5	46.8	31.2	36.4	46.8	22.5	15.6	12.1
75°	14793.8	5845.1	123.0	53.7	34.6	24.2	27.7	34.6	22.5	13.9	12.1
77.5°	8049.8	2107.7	88.3	36.4	24.2	19.1	19.1	26.0	20.8	10.4	6.9
80°	2069.6	530.0	55.4	24.2	19.1	13.9	12.1	17.3	12.1	1.7	0.0
82.5°	510.9	119.5	29.4	17.3	13.9	5.2	5.2	8.7	5.2	0.0	0.0
85°	280.6	58.9	19.1	12.1	6.9	0.0	0.0	1.7	0.0	0.0	0.0
87.5°	143.7	17.3	5.2	3.5	1.7	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

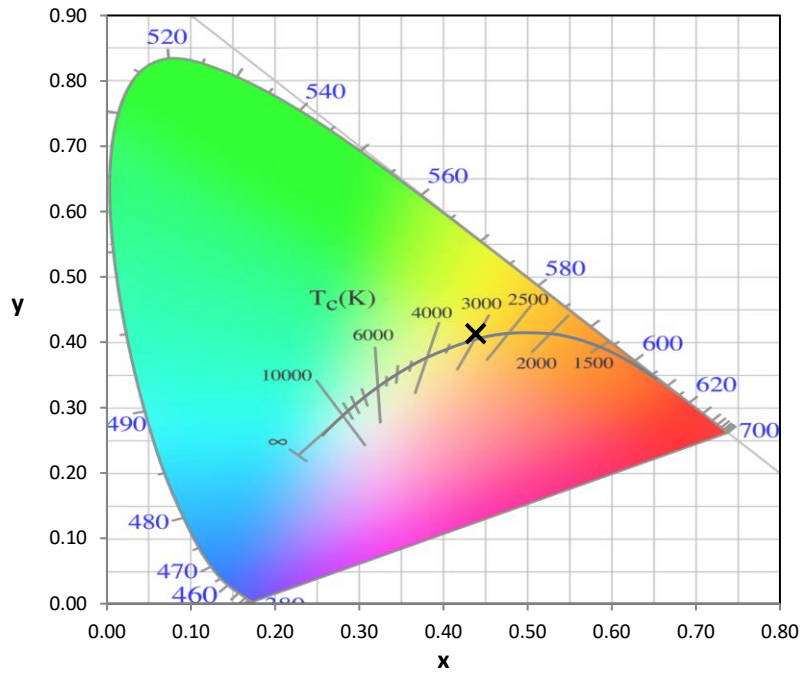
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

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 $\text{W}^\wedge/\text{nm}$	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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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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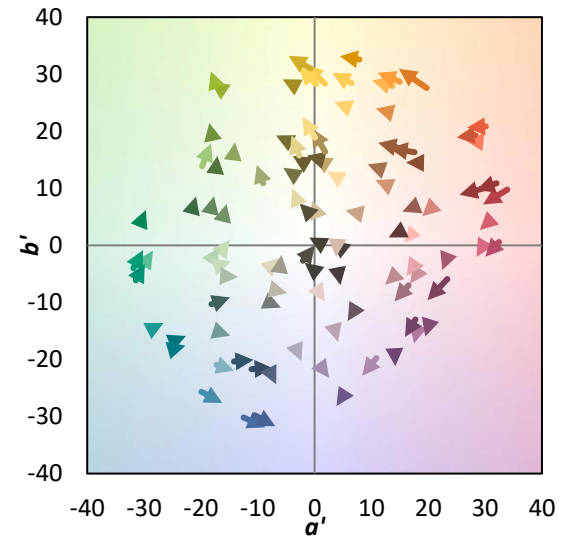
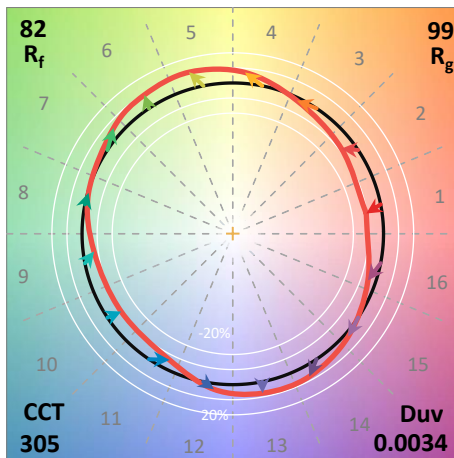
TM-30-18

Summary

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

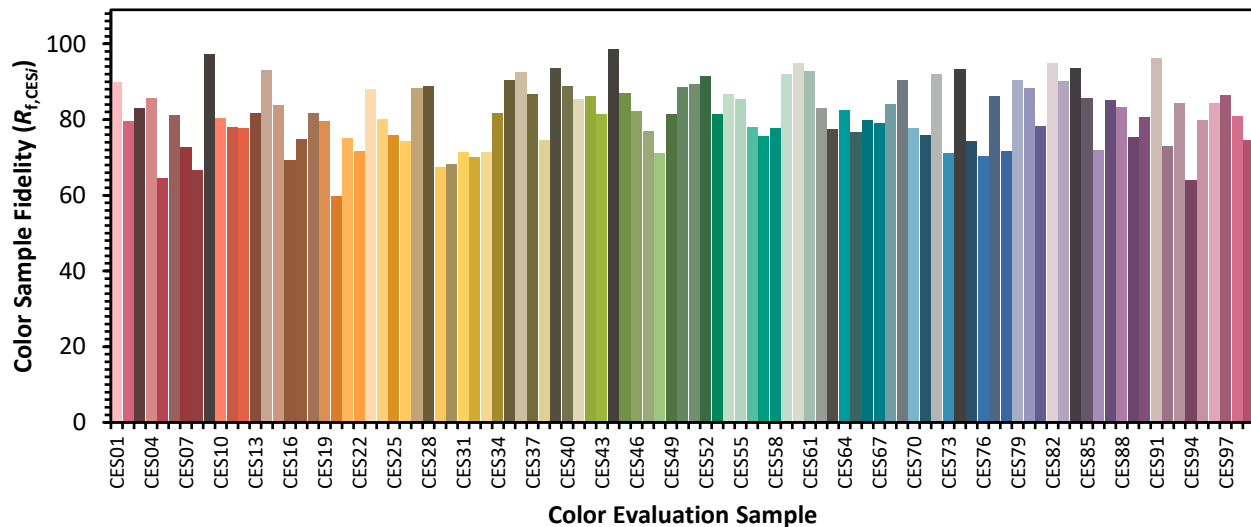


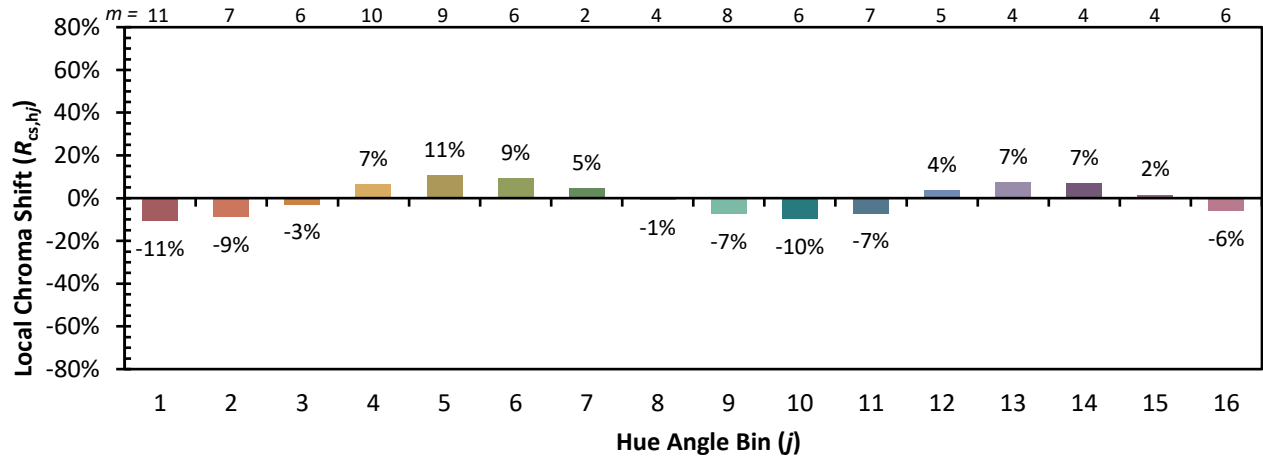
Color Vector Graphics



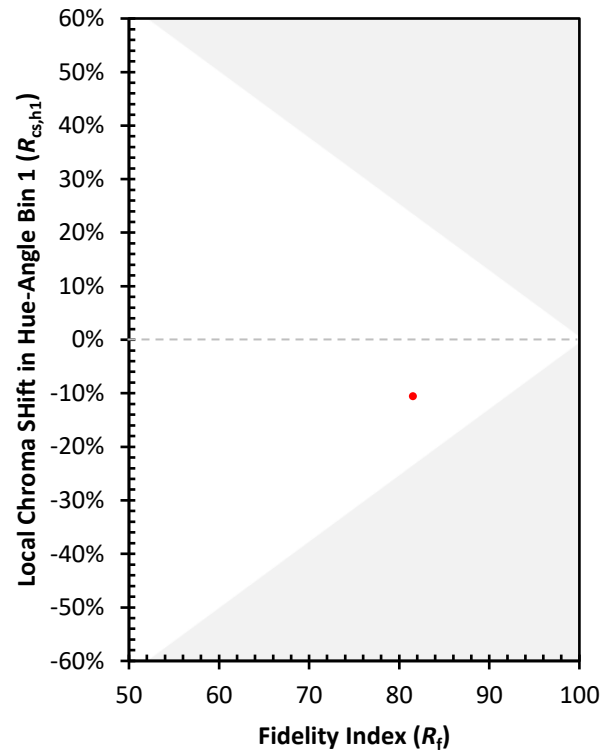
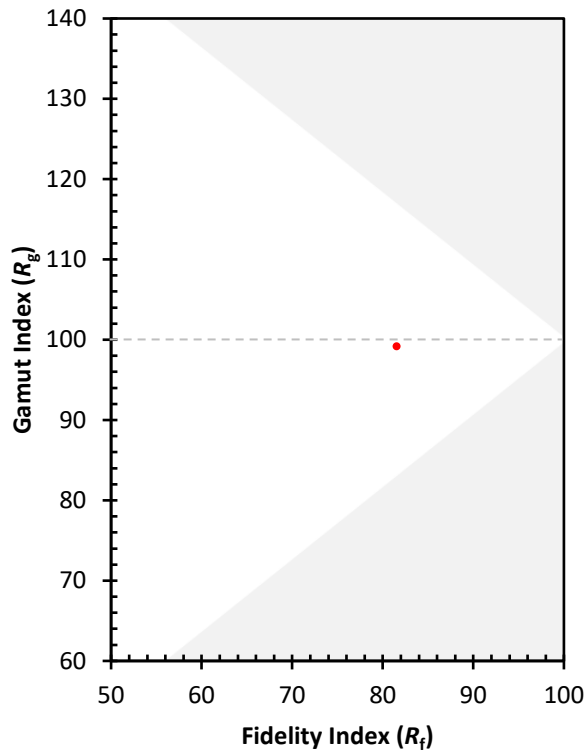
Individual Sample Fidelity Index ($R_{f,i}$)

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)