

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: P324973

Luminaire Tested: **GLEON-SA9C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324973
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-SA9C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41135 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

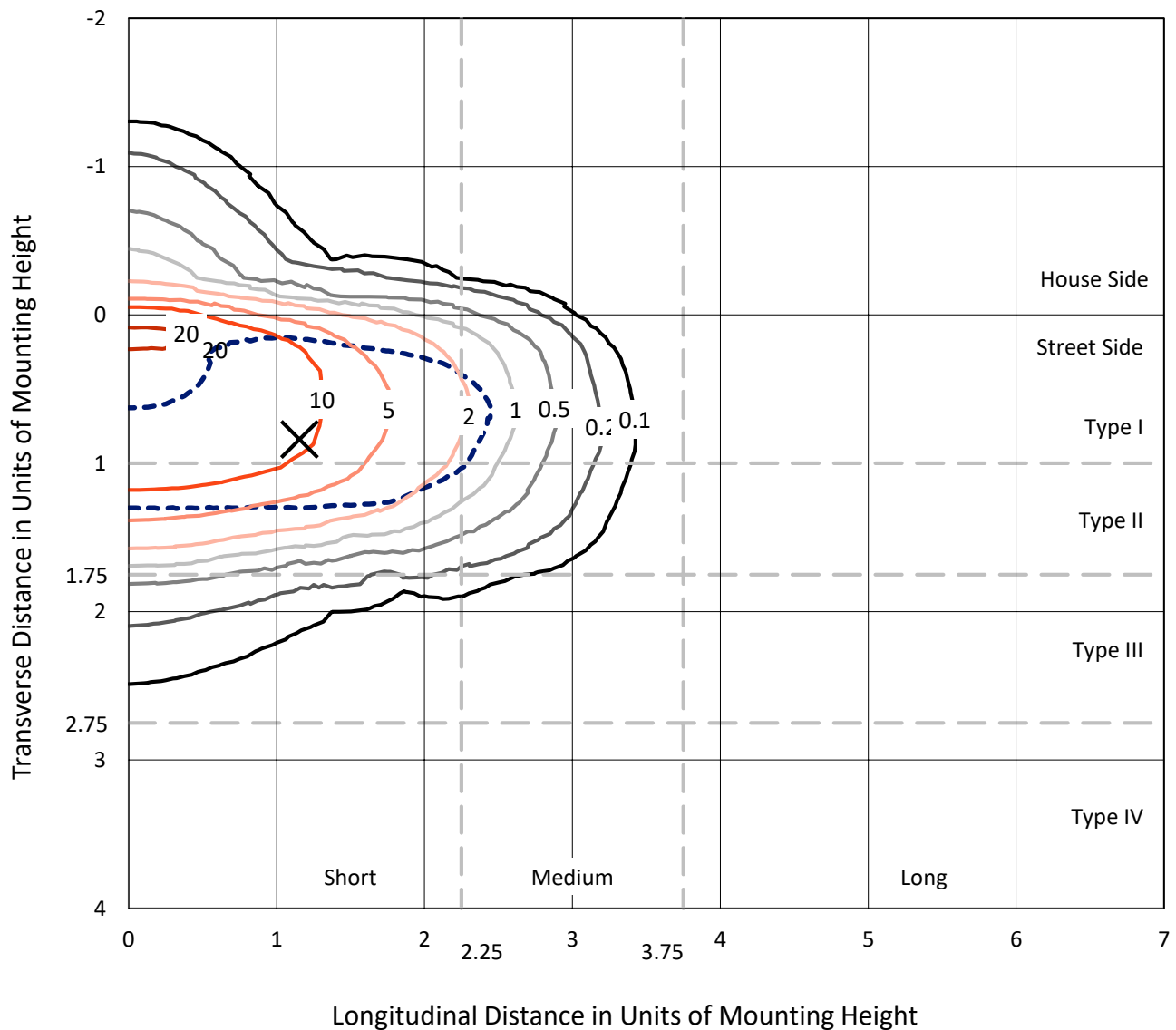
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

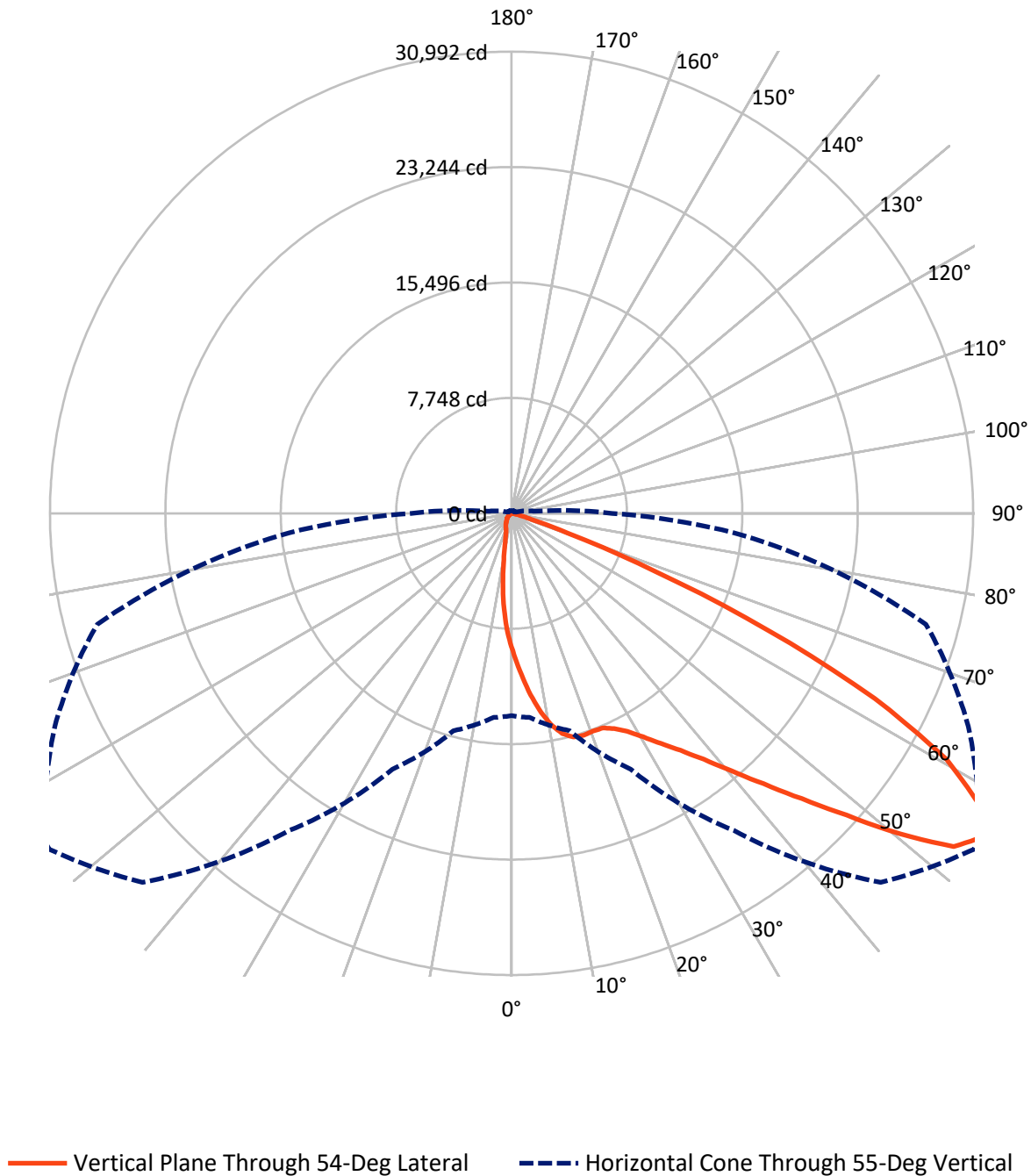
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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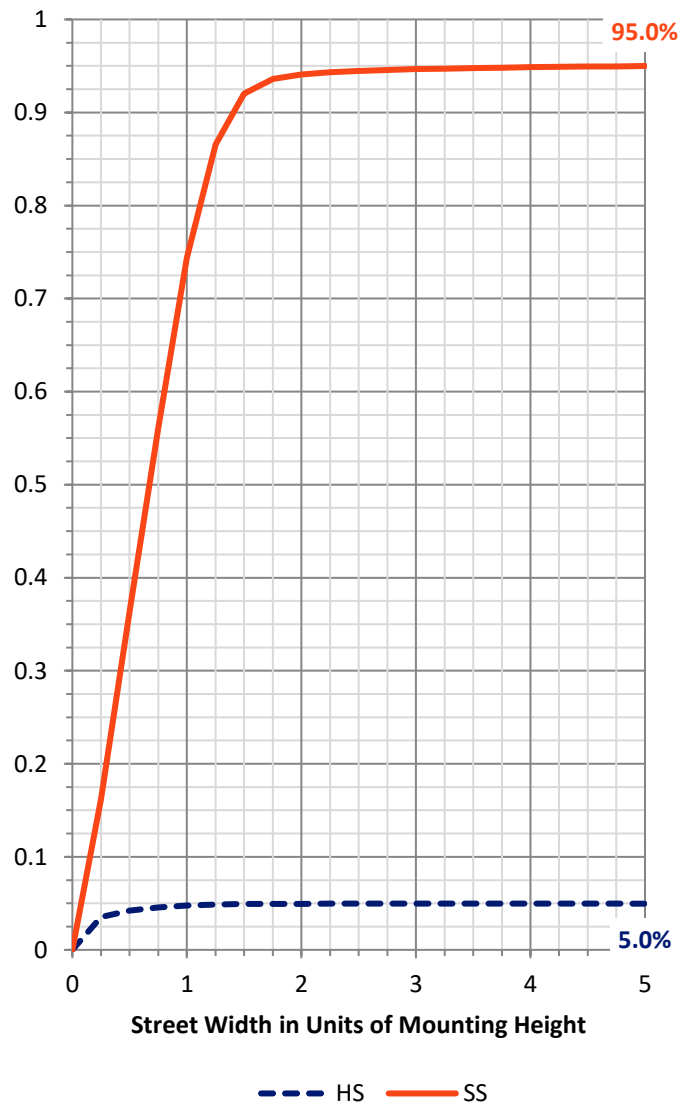
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2052.3	0.0	2052.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39082.7	0.0	39082.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	41135.0	0.0	41135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.4	2.1
10°-20°	2326.7	5.7
20°-30°	3972.4	9.7
30°-40°	6375.1	15.5
40°-50°	10187.4	24.8
50°-60°	10916.1	26.5
60°-70°	5604.6	13.6
70°-80°	849.0	2.1
80°-90°	55.3	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°	41135.0	100.0
0°-180°	41135.0	100.0

Coefficient of Utilization



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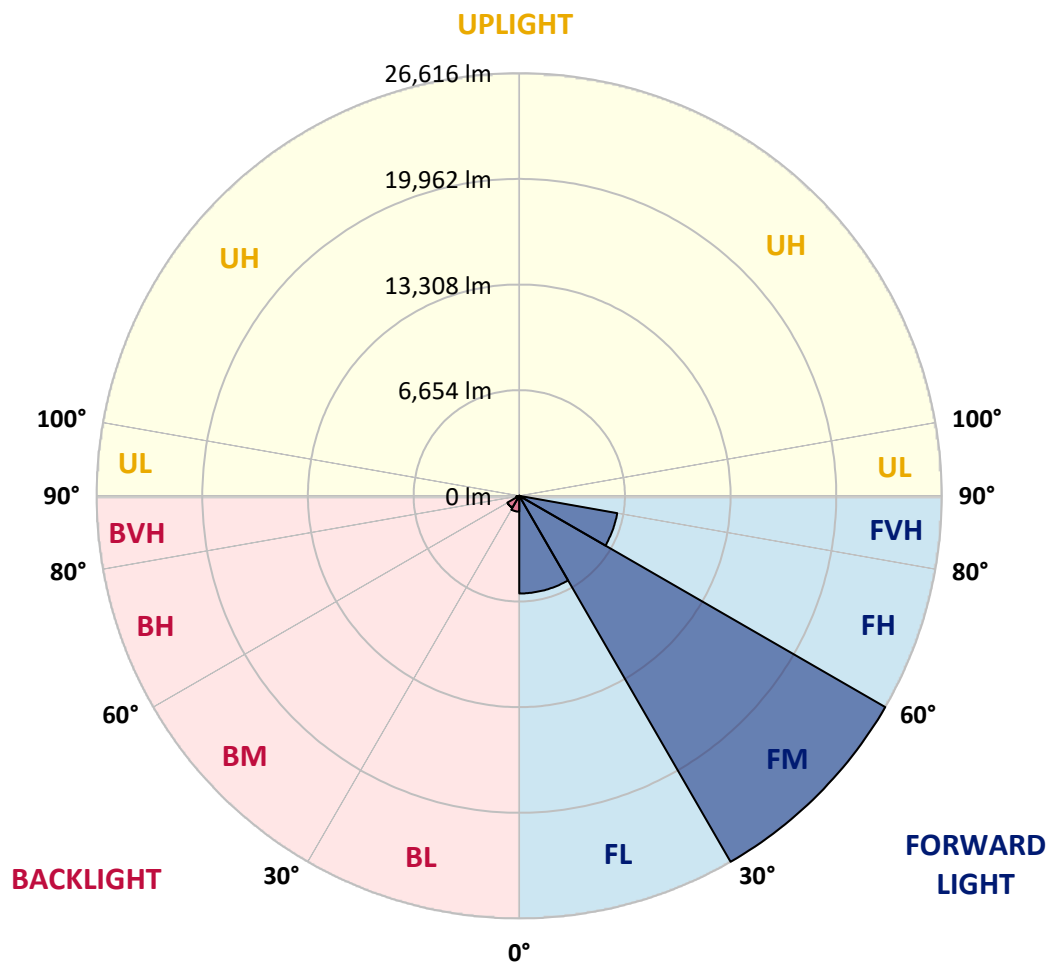
CATALOG NUMBER: GLEON-SA9C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6149.0	14.9			
FM	(30°-60°)	26616.2	64.7			
FH	(60°-80°)	6264.5	15.2			G3/7500
FVH	(80°-90°)	53.1	0.1			G1/100
BL	(0°-30°)	998.5	2.4	B2/1000		
BM	(30°-60°)	862.4	2.1	B1/1000		
BH	(60°-80°)	189.1	0.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6
2.5°	11561.0	11388.7	11394.1	11315.9	11029.9	10806.1	10573.3	10518.3	10155.9	9775.7	9409.8
5°	13559.5	13433.4	13403.2	13252.2	12854.3	12433.3	11982.1	11877.2	11168.4	10390.4	9624.7
7.5°	14586.3	14588.1	14563.2	14508.1	14259.4	13850.9	13300.2	13190.0	12225.4	11058.3	9848.6
10°	14287.9	14355.4	14493.9	14676.9	14867.0	14815.5	14401.6	14302.1	13254.0	11765.3	10097.3
12.5°	13591.5	13600.4	13754.9	14055.1	14602.3	15163.6	15170.8	15137.0	14236.3	12504.3	10370.8
15°	13245.1	13278.8	13335.7	13529.3	14048.0	14946.9	15590.0	15638.0	15137.0	13289.5	10662.2
17.5°	13472.5	13520.4	13472.5	13495.6	13795.8	14604.1	15662.8	15785.4	15924.0	14065.8	10937.5
20°	14088.9	14133.3	14048.0	13953.9	14012.5	14504.6	15611.3	15776.5	16540.4	14755.1	11168.4
22.5°	14920.3	14938.0	14808.4	14653.8	14611.2	14842.1	15653.9	15824.5	17034.2	15378.6	11314.1
25°	15835.1	15851.1	15689.5	15511.8	15410.6	15504.7	16003.9	16131.8	17469.5	15973.7	11397.6
27.5°	16831.7	16845.9	16643.4	16424.9	16307.7	16311.2	16581.2	16718.0	17933.1	16652.3	11465.1
30°	17885.1	17878.0	17691.5	17387.7	17238.5	17235.0	17412.6	17551.2	18604.6	17522.7	11557.5
32.5°	19068.2	19054.0	18789.3	18412.7	18244.0	18268.9	18427.0	18506.9	19437.7	18450.0	11722.7
35°	20626.2	20585.3	20185.6	19718.4	19407.5	19398.7	19531.9	19595.8	20500.1	19572.8	11998.0
37.5°	22647.8	22610.5	22068.6	21390.0	20953.0	20789.6	20947.7	21029.4	22015.4	21013.4	12440.4
40°	24640.9	24603.6	24282.1	23660.3	22987.1	22594.5	22718.8	22805.9	23907.3	22761.5	12998.2
42.5°	26015.9	26047.9	26159.8	26211.3	25580.7	24756.4	24813.2	24903.8	25895.1	24630.3	13635.9
45°	26378.3	26447.6	27080.0	28321.7	28558.0	27914.9	27319.8	27369.5	27914.9	26499.1	14273.7
47.5°	25289.3	25417.2	26637.6	28947.0	30947.3	31402.0	30275.8	30210.0	29853.0	28010.8	14726.6
50°	22814.7	22932.0	24513.0	27929.1	31672.0	34731.1	33818.0	33624.4	31553.0	28915.0	14886.5
52.5°	19233.5	19375.6	20659.9	24724.4	30306.0	36216.2	37171.9	37010.2	32800.1	28986.1	14913.2
55°	13582.6	13754.9	15113.9	18949.2	25976.8	35034.8	38360.3	38312.4	33835.7	28797.8	14970.0
57.5°	7633.3	7757.7	9223.2	12147.3	19025.6	30515.6	37118.6	37436.6	34461.1	28470.9	15055.3
60°	3389.4	3423.2	4181.7	6047.0	11138.2	23321.0	33564.0	34100.4	33924.6	28033.9	15199.2
62.5°	1879.5	1851.0	1851.0	2513.7	4840.8	14437.1	27369.5	28256.0	31634.7	27517.0	15206.3
65°	1472.7	1446.0	1369.6	1380.3	1843.9	6407.6	18952.8	20528.5	27286.0	26001.7	14694.7
67.5°	1248.8	1225.7	1149.4	1119.2	1145.8	2114.0	10413.5	12049.6	20704.3	22063.3	12728.2
70°	1055.2	1039.2	1000.1	962.8	895.3	1044.5	3984.5	5096.6	12758.4	14676.9	8688.5
72.5°	849.1	842.0	856.2	824.3	742.5	696.4	1362.5	1650.3	5730.8	6549.7	3579.5
75°	731.9	728.3	735.4	703.5	611.1	485.0	692.8	756.8	1616.6	1602.3	724.8
77.5°	476.1	481.4	609.3	595.1	525.8	323.3	358.8	387.3	490.3	367.7	220.3
80°	303.8	300.2	309.1	493.8	472.5	246.9	179.4	188.3	236.3	181.2	106.6
82.5°	184.7	181.2	202.5	230.9	238.0	172.3	110.1	111.9	147.4	117.2	56.8
85°	16.0	21.3	122.6	113.7	81.7	53.3	53.3	56.8	78.2	69.3	32.0
87.5°	0.0	0.0	21.3	32.0	17.8	19.5	19.5	21.3	30.2	30.2	16.0
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: P324973

CATALOG NUMBER: GLEON-SA9C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6	9212.6
2.5°	9219.7	9034.9	8661.9	8303.1	7999.3	7706.2	7372.2	7041.8	6887.2	6825.1	6761.1
5°	9235.7	8855.5	8086.3	7311.8	6508.9	5785.8	5169.4	4537.0	4220.8	4082.2	4018.3
7.5°	9257.0	8677.9	7434.4	6134.0	4840.8	3860.2	3004.0	2453.3	2215.2	2177.9	2085.5
10°	9260.6	8462.9	6677.6	4833.7	3245.5	2327.1	1790.6	1506.4	1401.6	1383.8	1353.6
12.5°	9267.7	8208.9	5837.4	3579.5	2163.7	1556.2	1295.0	1200.9	1172.4	1170.7	1170.7
15°	9289.0	7942.4	4965.1	2579.4	1554.4	1232.8	1136.9	1099.6	1089.0	1094.3	1092.5
17.5°	9289.0	7628.0	4108.9	1922.1	1255.9	1108.5	1055.2	1030.3	1026.8	1032.1	1033.9
20°	9221.5	7246.1	3323.7	1495.8	1113.8	1028.6	980.6	957.5	948.6	952.2	953.9
22.5°	9059.8	6777.1	2684.2	1238.2	1019.7	955.7	904.2	868.7	854.5	856.2	856.2
25°	8807.6	6221.1	2099.7	1071.2	943.3	877.6	817.2	776.3	767.4	765.6	769.2
27.5°	8484.3	5606.4	1671.6	943.3	852.7	790.5	730.1	696.4	689.3	691.0	692.8
30°	8166.3	4968.7	1318.1	834.9	751.4	692.8	646.6	630.6	630.6	636.0	637.7
32.5°	7874.9	4355.8	1042.8	740.8	660.8	607.5	580.9	579.1	588.0	591.6	593.3
35°	7624.5	3789.1	863.3	667.9	589.8	543.6	534.7	541.8	552.5	559.6	561.4
37.5°	7446.8	3282.9	755.0	607.5	534.7	497.4	495.6	509.8	524.0	540.0	543.6
40°	7372.2	2854.7	680.4	554.2	490.3	461.9	456.5	476.1	502.7	525.8	529.4
42.5°	7310.0	2504.8	616.4	502.7	454.8	413.9	412.1	437.0	469.0	492.1	497.4
45°	7256.7	2224.1	557.8	447.7	408.6	355.3	360.6	392.6	417.5	442.3	447.7
47.5°	7146.6	1993.2	493.8	389.0	337.5	303.8	314.4	342.9	362.4	399.7	405.0
50°	6949.4	1804.9	428.1	318.0	275.3	262.9	278.9	298.4	323.3	355.3	358.8
52.5°	6816.2	1662.7	371.3	266.5	227.4	230.9	246.9	254.0	268.2	280.7	277.1
55°	6739.8	1584.6	325.1	230.9	193.6	204.3	207.8	199.0	191.9	179.4	174.1
57.5°	6730.9	1513.5	289.6	200.7	170.5	175.9	163.4	133.2	108.4	94.2	90.6
60°	6716.7	1426.5	261.1	168.8	151.0	143.9	117.2	72.8	51.5	48.0	48.0
62.5°	6562.1	1291.5	239.8	142.1	127.9	108.4	67.5	33.8	28.4	30.2	30.2
65°	6070.1	1103.2	218.5	115.5	101.3	78.2	33.8	19.5	10.7	12.4	12.4
67.5°	5160.5	879.3	195.4	88.8	76.4	49.7	19.5	8.9	0.0	0.0	0.0
70°	3455.2	545.4	165.2	62.2	49.7	30.2	14.2	1.8	0.0	0.0	0.0
72.5°	1325.2	294.9	133.2	37.3	32.0	21.3	8.9	0.0	0.0	0.0	0.0
75°	298.4	193.6	92.4	26.6	23.1	14.2	3.6	0.0	0.0	0.0	0.0
77.5°	113.7	140.3	53.3	17.8	16.0	8.9	0.0	0.0	0.0	0.0	0.0
80°	55.1	83.5	24.9	10.7	8.9	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	32.0	10.7	5.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	16.0	5.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	5.3	1.8	1.8	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

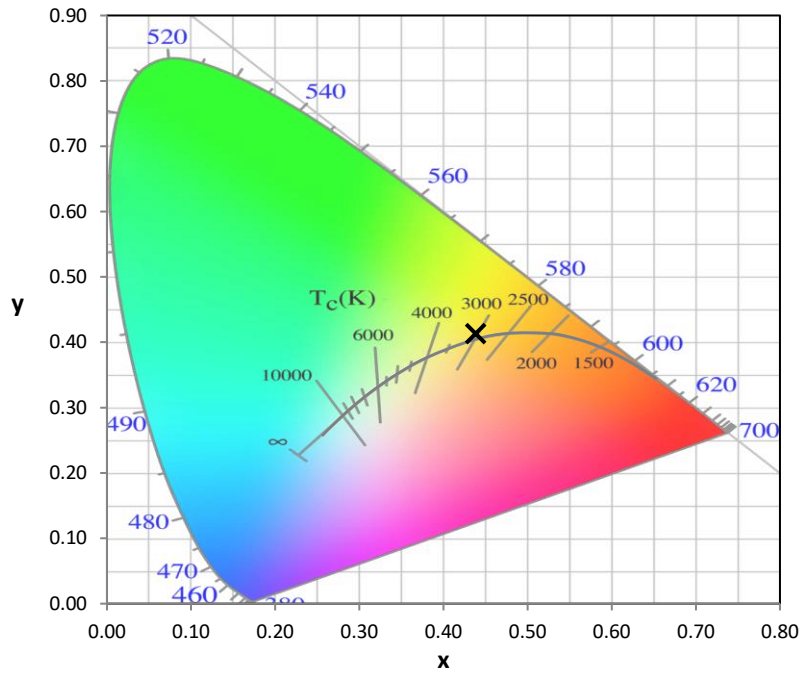
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

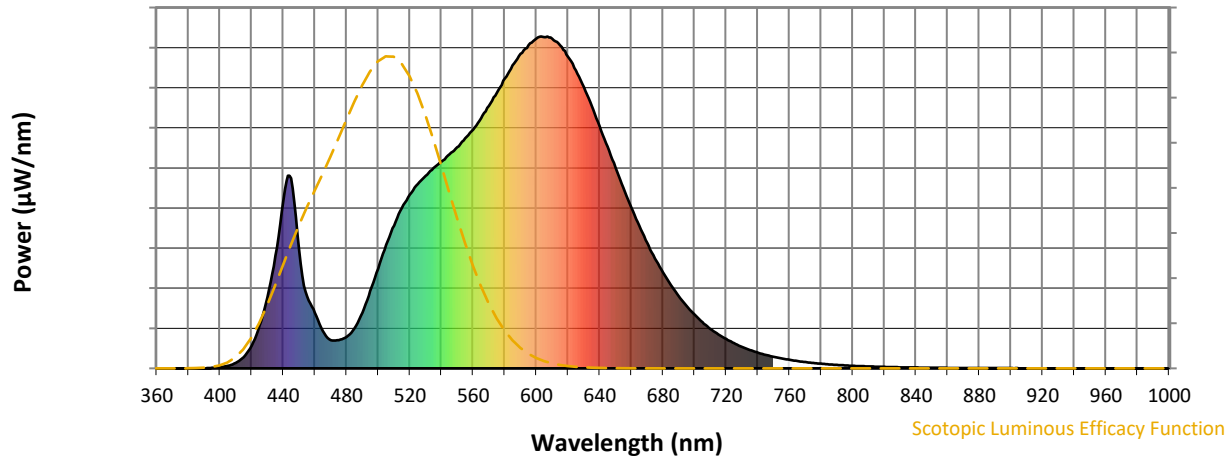


Photopic Lumens: NR

λ (nm)	Power W ^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



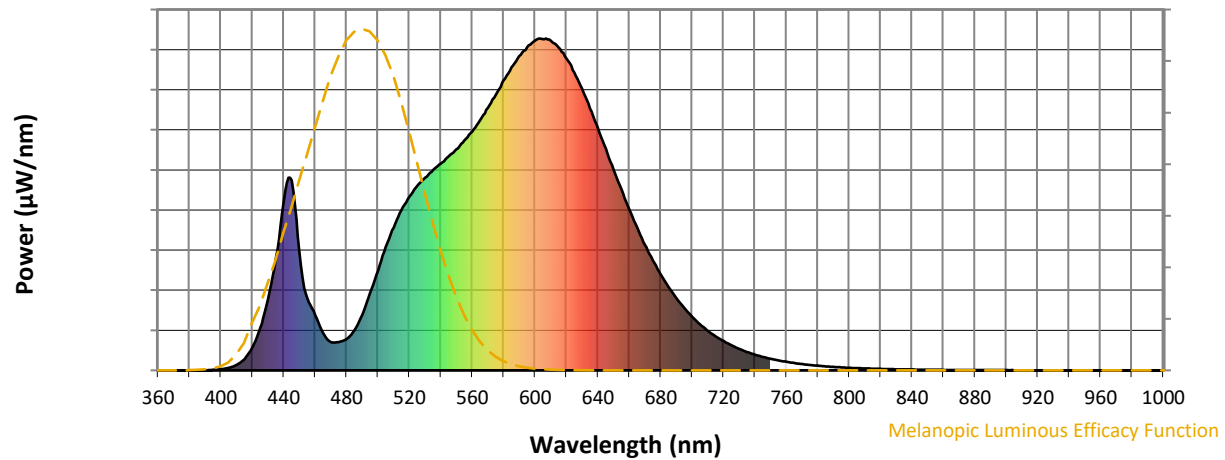
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W ^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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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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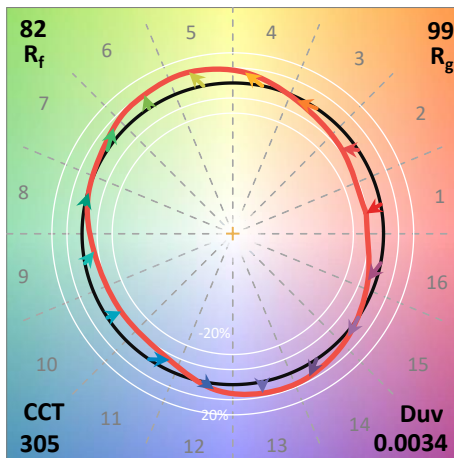
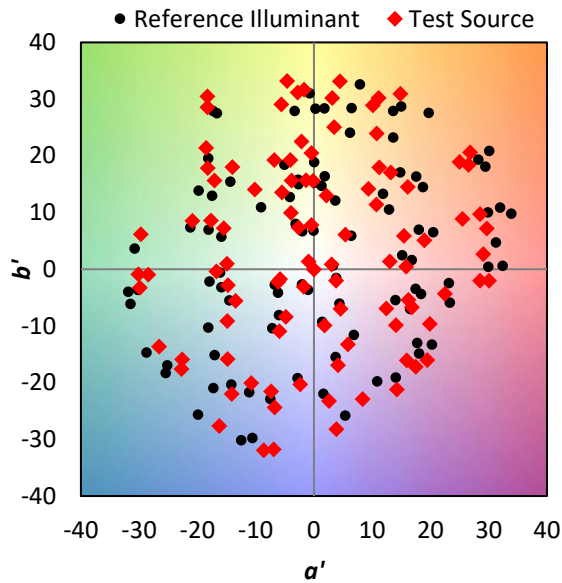
TM-30-18

Summary

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



Color Vector Graphics

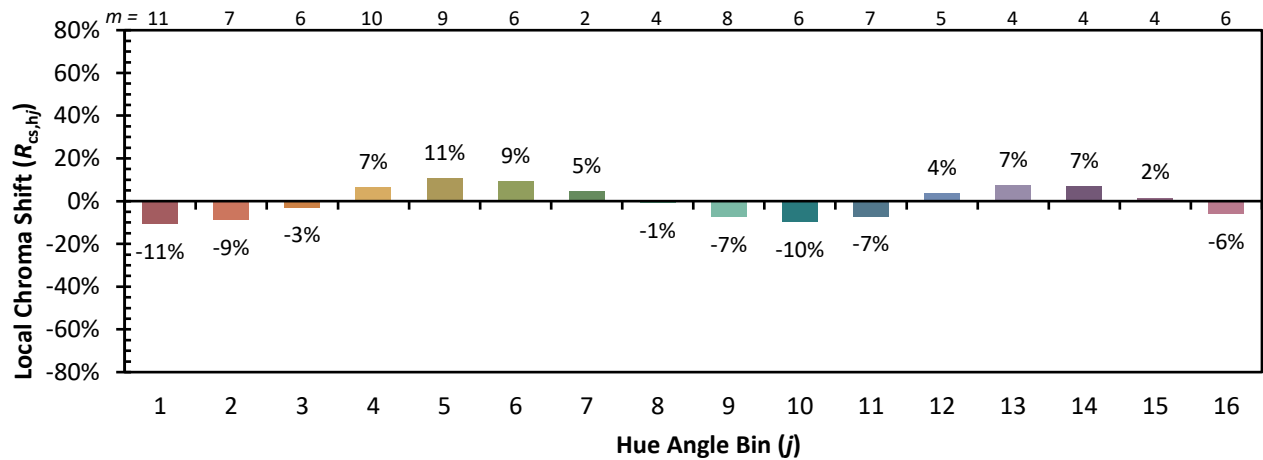


Individual Sample Fidelity Index ($R_{f,i}$)

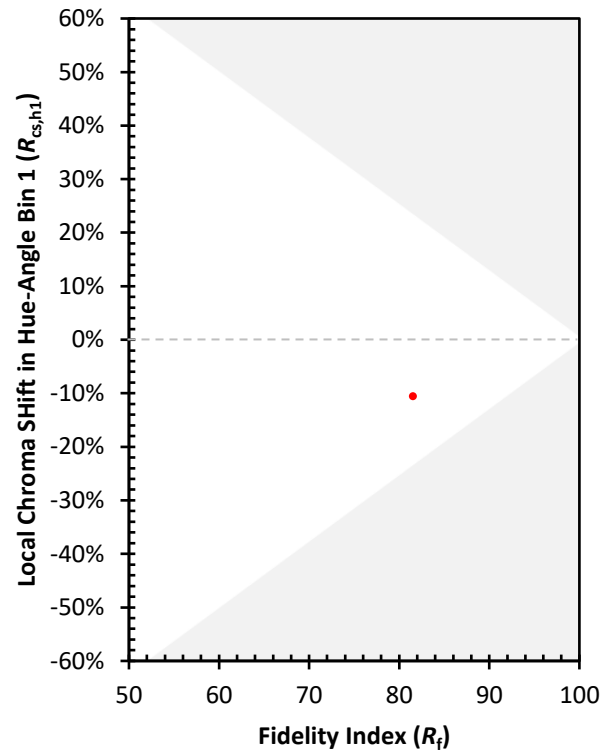
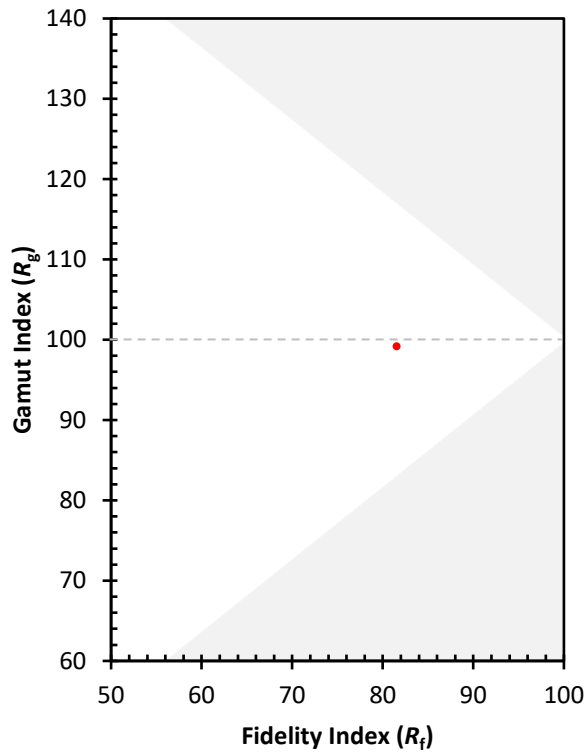
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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