

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: P317615

Luminaire Tested: **GLEON-SA1D-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6724 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

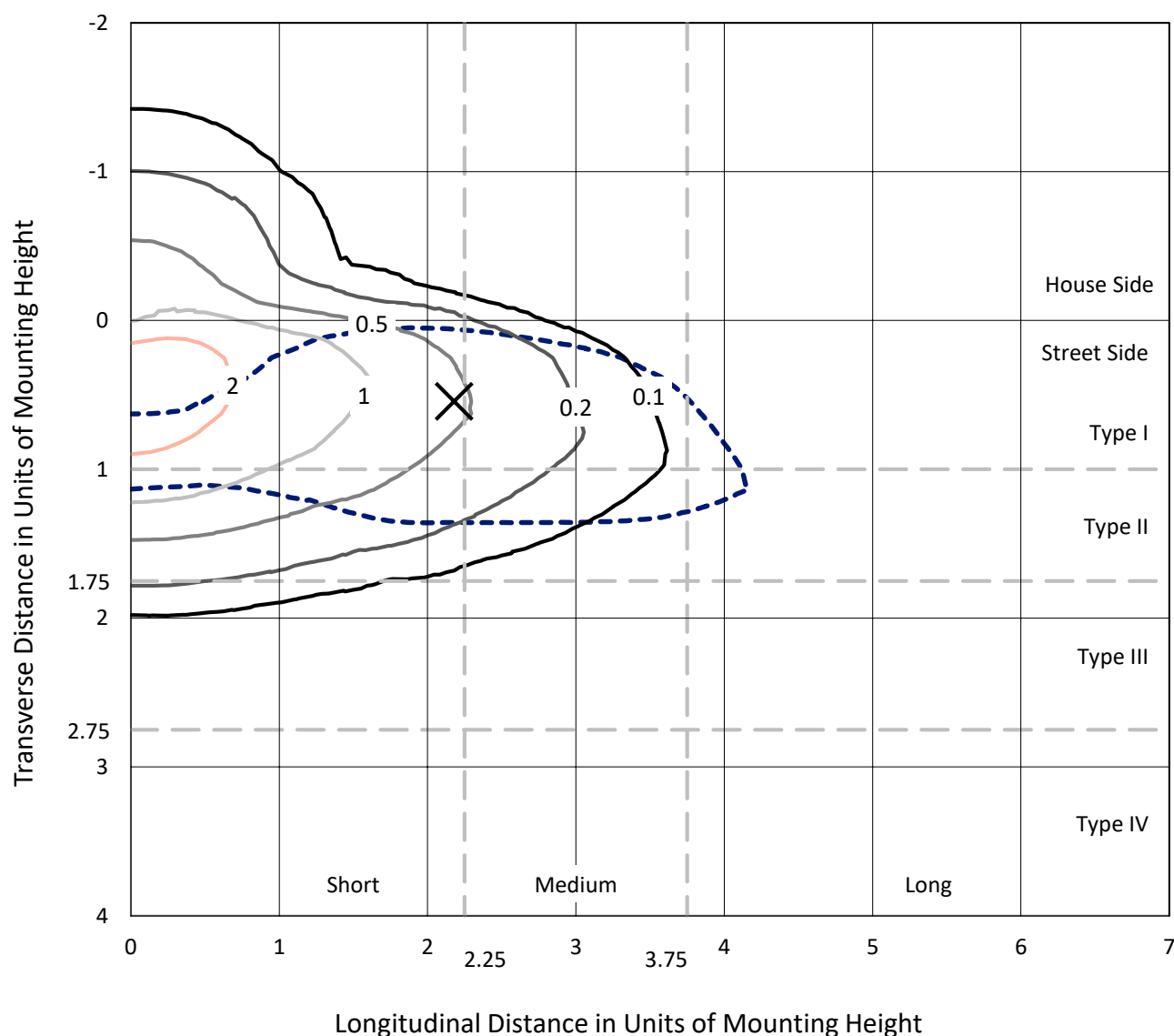
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

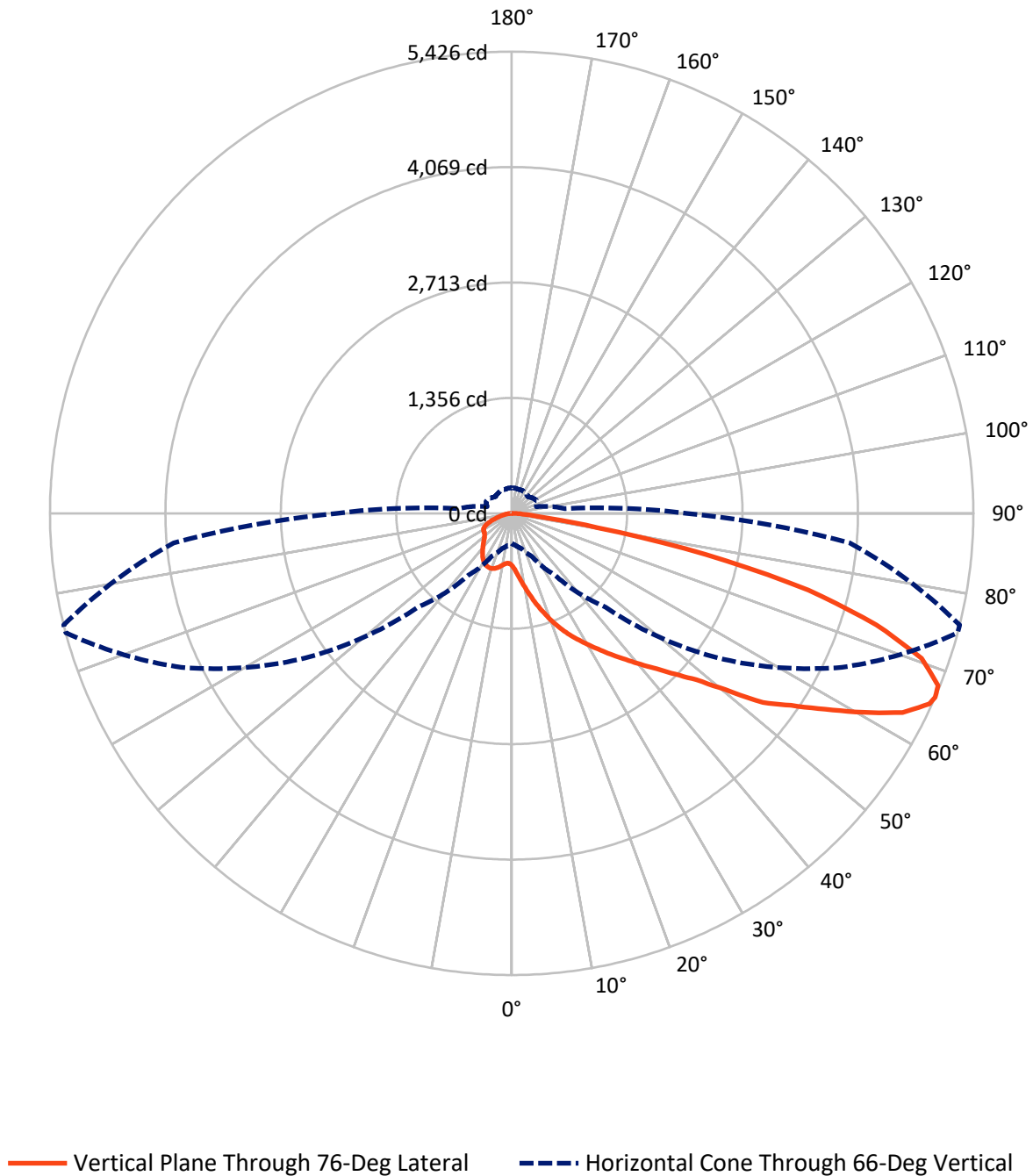
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P317615

CATALOG NUMBER: GLEON-SA1D-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1131.4	0.0	1131.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5592.6	0.0	5592.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	6724.0	0.0	6724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.1
10°-20°	293.2	4.4
20°-30°	569.8	8.5
30°-40°	930.1	13.8
40°-50°	1270.7	18.9
50°-60°	1480.1	22.0
60°-70°	1326.9	19.7
70°-80°	670.6	10.0
80°-90°	108.3	1.6
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°	6724.0	100.0
0°-180°	6724.0	100.0

Coefficient of Utilization



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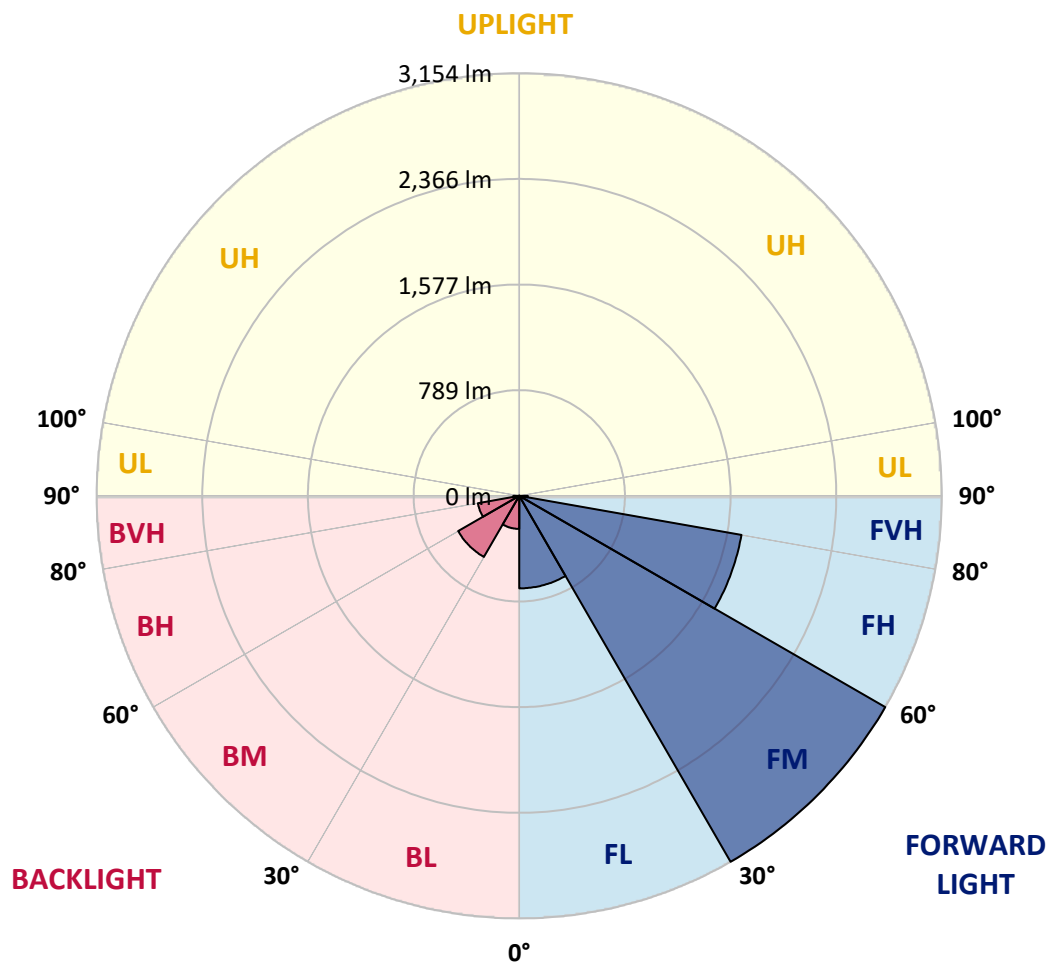
CATALOG NUMBER: GLEON-SA1D-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	690.5	10.3			
FM	(30°-60°)	3154.0	46.9			
FH	(60°-80°)	1684.1	25.0			G1/1800
FVH	(80°-90°)	64.0	1.0			G1/100
BL	(0°-30°)	246.8	3.7	B1/500		
BM	(30°-60°)	526.9	7.8	B1/1000		
BH	(60°-80°)	313.5	4.7	B1/500		G1/500
BVH	(80°-90°)	44.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
2.5°	815.2	802.8	801.7	783.7	779.6	745.1	719.7	693.3	663.1	657.2	633.5
5°	1047.1	1045.9	1030.2	1000.7	977.7	918.8	860.6	799.0	731.4	720.4	667.0
7.5°	1255.7	1253.9	1241.8	1210.1	1176.7	1104.4	1021.3	926.8	817.2	801.0	712.4
10°	1414.1	1413.5	1409.4	1386.1	1357.8	1288.4	1196.6	1067.6	917.0	894.8	769.3
12.5°	1536.5	1537.9	1540.6	1532.4	1518.9	1459.8	1365.8	1216.9	1023.3	1001.4	832.5
15°	1619.4	1623.5	1637.6	1649.3	1656.3	1620.0	1529.0	1369.6	1142.5	1116.3	902.6
17.5°	1661.1	1665.7	1690.1	1725.3	1757.7	1754.0	1681.7	1515.3	1256.9	1231.5	977.9
20°	1697.2	1700.6	1728.0	1770.3	1827.5	1852.9	1812.3	1655.4	1382.2	1352.1	1057.8
22.5°	1801.8	1806.1	1814.3	1838.3	1889.0	1935.5	1915.9	1788.1	1497.0	1468.9	1133.6
25°	2003.5	2008.8	1991.0	1970.7	1980.3	2012.7	2016.3	1909.0	1613.4	1581.7	1215.1
27.5°	2246.7	2254.2	2223.8	2171.6	2125.9	2113.3	2109.0	2008.1	1724.6	1687.8	1295.7
30°	2484.7	2497.8	2458.3	2390.5	2306.7	2247.8	2204.2	2105.1	1834.2	1799.0	1371.7
32.5°	2717.4	2712.1	2654.8	2588.6	2490.5	2416.7	2311.3	2209.2	1957.4	1917.0	1447.2
35°	2876.7	2878.5	2825.3	2746.8	2653.2	2596.6	2454.6	2321.5	2083.2	2046.0	1533.1
37.5°	3012.3	3003.8	2943.6	2870.3	2789.7	2765.5	2622.4	2445.3	2219.5	2178.9	1624.4
40°	3057.5	3047.7	3008.2	2955.4	2890.8	2888.8	2807.5	2585.4	2373.6	2333.4	1727.3
42.5°	3030.1	3017.5	3001.3	2986.9	2967.1	2976.2	2981.5	2749.8	2543.0	2498.0	1846.5
45°	2929.0	2910.0	2921.4	2952.7	2995.8	3047.4	3138.5	2931.7	2732.6	2695.0	1986.4
47.5°	2773.5	2756.4	2792.0	2858.9	2976.2	3106.8	3287.1	3132.6	2959.1	2921.7	2185.7
50°	2554.8	2559.8	2610.8	2732.4	2909.8	3134.2	3470.2	3398.5	3288.3	3253.3	2457.6
52.5°	2196.0	2196.9	2340.2	2540.0	2792.0	3120.0	3571.8	3738.4	3737.7	3695.5	2716.4
55°	1862.7	1883.0	1996.5	2262.0	2601.2	3063.4	3642.8	3903.7	4032.9	3983.4	2957.7
57.5°	1537.2	1549.1	1656.6	1923.2	2328.8	2912.5	3715.6	4102.1	4373.0	4341.7	3257.7
60°	1166.9	1185.2	1296.4	1542.7	1980.5	2644.8	3722.4	4309.1	4779.6	4748.1	3592.6
62.5°	757.4	788.9	893.0	1123.8	1559.1	2259.7	3563.6	4444.5	5164.9	5153.7	3889.8
65°	435.3	459.1	531.4	709.5	1075.6	1776.2	3185.8	4392.4	5402.1	5395.7	4000.9
66°	355.6	370.5	426.0	554.5	887.5	1559.8	2966.2	4282.6	5425.6	5425.8	3988.1
67.5°	284.4	291.0	315.9	397.0	654.9	1236.3	2573.8	4040.4	5396.4	5404.3	3905.7
70°	235.3	238.8	246.5	266.2	357.5	745.5	1826.9	3411.1	5103.0	5109.2	3584.1
72.5°	211.2	213.2	216.2	218.9	252.2	416.6	1115.8	2728.8	4474.1	4482.1	3094.0
75°	191.3	192.4	192.0	192.2	211.6	265.5	576.6	2037.3	3617.7	3601.7	2370.2
77.5°	168.0	169.1	166.9	167.3	187.2	204.1	286.9	1426.2	2441.4	2328.6	1335.4
80°	142.0	142.9	142.0	143.6	163.0	154.1	166.9	802.4	1079.5	1021.1	474.8
82.5°	107.3	111.2	113.9	120.3	134.2	109.6	111.6	312.5	328.7	313.0	145.6
85°	47.0	57.3	85.8	92.0	100.9	65.7	73.3	127.4	133.8	129.7	53.0
87.5°	12.3	13.5	42.5	53.4	55.9	29.7	38.1	58.0	61.2	58.0	17.6
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: P317615

CATALOG NUMBER: GLEON-SA1D-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
2.5°	620.9	609.7	589.6	571.8	558.4	549.2	540.1	535.5	532.8	530.0	530.5
5°	640.8	618.2	583.7	559.3	545.6	536.9	532.3	530.5	529.4	526.6	526.6
7.5°	670.7	638.7	591.2	566.1	555.4	548.8	546.0	545.1	543.7	540.5	541.0
10°	708.3	663.6	607.0	582.6	572.7	565.4	561.6	560.2	557.7	554.0	554.5
12.5°	752.6	694.4	627.7	602.2	590.3	580.5	574.1	570.2	565.9	561.1	561.3
15°	801.0	728.0	650.1	619.8	603.6	589.9	579.6	573.0	566.1	560.2	560.0
17.5°	850.1	760.4	667.2	629.3	607.4	589.4	575.5	565.2	556.8	549.5	548.8
20°	903.0	789.6	676.8	628.4	600.1	578.7	560.2	547.4	538.0	530.7	529.6
22.5°	956.9	817.0	678.4	619.1	583.9	557.7	538.3	524.1	514.5	507.0	504.3
25°	1006.2	838.2	671.8	601.0	561.3	533.0	514.1	499.7	491.9	483.0	480.3
27.5°	1051.2	853.1	658.6	578.0	536.0	508.1	490.3	478.0	469.6	462.7	460.4
30°	1091.6	861.0	636.9	550.6	510.0	484.6	469.6	461.1	453.8	445.1	443.5
32.5°	1129.9	861.0	609.0	520.7	484.2	463.8	454.9	449.7	441.5	433.0	430.8
35°	1168.3	855.8	576.2	489.4	460.4	449.0	448.6	442.4	429.8	418.4	415.5
37.5°	1208.7	845.1	539.2	460.2	441.0	442.4	446.3	432.6	414.8	398.6	394.2
40°	1254.4	830.2	500.8	434.9	424.8	439.4	440.1	418.4	383.7	368.9	365.0
42.5°	1308.0	815.4	465.2	412.5	412.0	430.5	428.5	387.8	367.1	359.5	357.5
45°	1378.5	806.9	431.4	391.3	402.0	416.1	408.6	370.9	362.3	357.9	356.1
47.5°	1489.7	811.3	400.4	374.4	391.9	401.8	371.6	364.1	357.9	352.7	350.9
50°	1629.0	808.8	375.3	362.7	380.5	386.7	355.0	355.2	352.0	346.1	343.3
52.5°	1733.7	789.1	359.1	356.1	370.5	360.0	344.5	346.5	344.9	336.2	333.3
55°	1834.9	772.2	350.9	353.6	363.2	326.7	332.1	337.2	335.6	327.1	325.7
57.5°	1960.6	769.0	345.8	354.3	357.0	310.0	320.3	326.9	325.7	322.1	321.4
60°	2114.7	770.0	341.3	355.4	350.2	297.7	309.1	317.5	318.2	317.5	317.1
62.5°	2199.4	745.1	329.9	352.2	338.1	286.9	297.4	309.8	310.0	311.4	311.1
65°	2127.5	670.7	308.6	341.0	317.8	278.0	287.4	300.9	297.4	303.6	303.6
66°	2057.6	627.7	298.1	333.7	309.1	274.6	284.2	296.3	292.0	300.4	300.4
67.5°	1915.0	555.4	279.2	318.2	296.8	269.8	280.5	288.8	282.8	295.4	294.5
70°	1654.3	429.6	241.1	283.1	276.4	262.7	275.5	273.7	265.0	284.2	280.5
72.5°	1394.7	326.4	193.6	236.9	245.6	253.8	268.4	254.5	243.6	257.0	249.0
75°	1082.2	245.4	152.9	184.2	207.5	239.9	260.0	232.4	216.6	215.3	210.9
77.5°	585.1	168.5	121.2	140.6	164.8	222.6	254.3	208.6	184.9	179.4	176.0
80°	231.7	109.6	88.1	106.6	115.3	197.5	240.6	181.0	152.5	147.0	141.8
82.5°	95.6	64.8	56.8	71.4	75.1	168.9	215.9	148.4	117.8	163.0	173.0
85°	41.1	35.6	33.8	37.0	42.5	118.5	171.9	113.2	127.1	113.5	90.2
87.5°	12.3	15.1	14.4	14.2	15.5	28.3	91.5	63.0	93.4	35.4	26.5
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

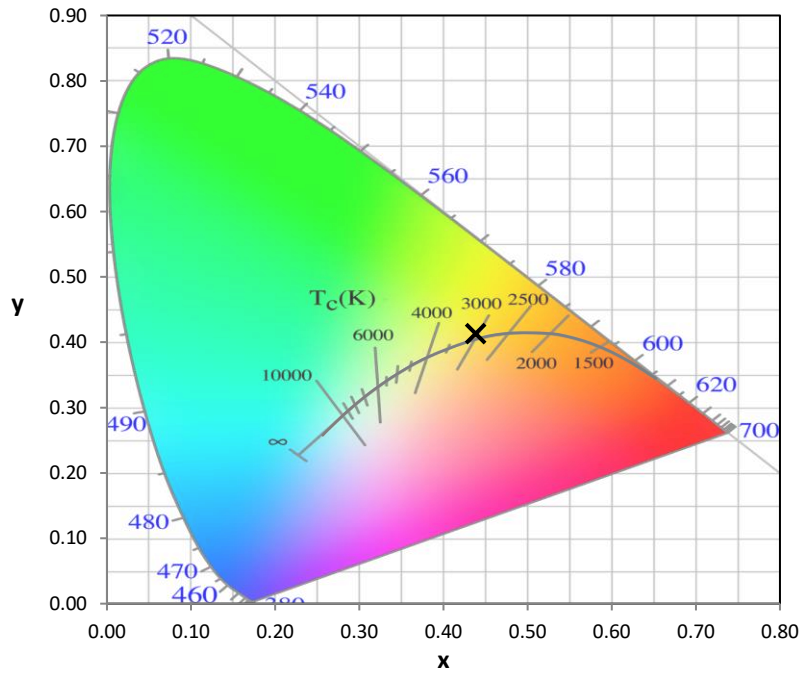
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

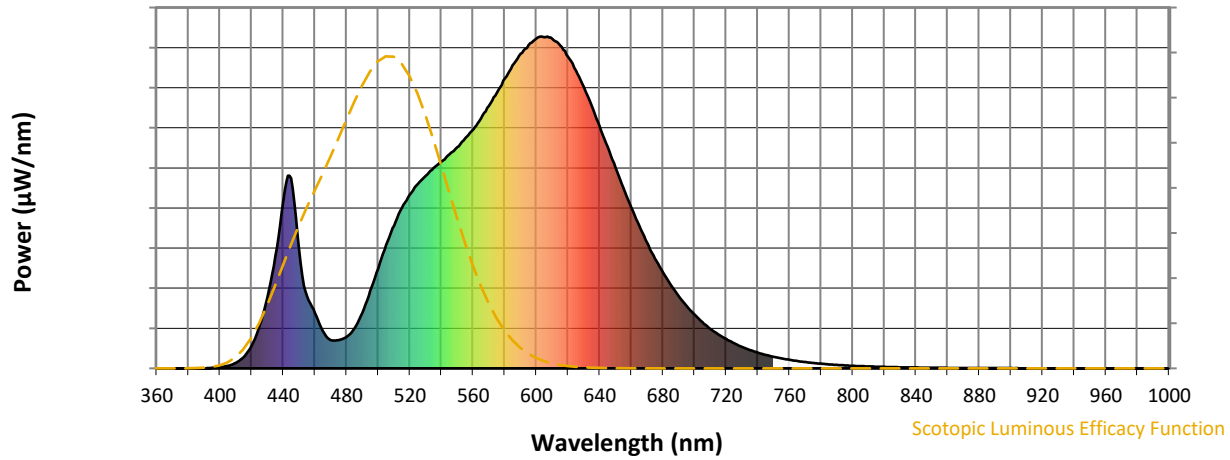


Photopic Lumens: NR

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



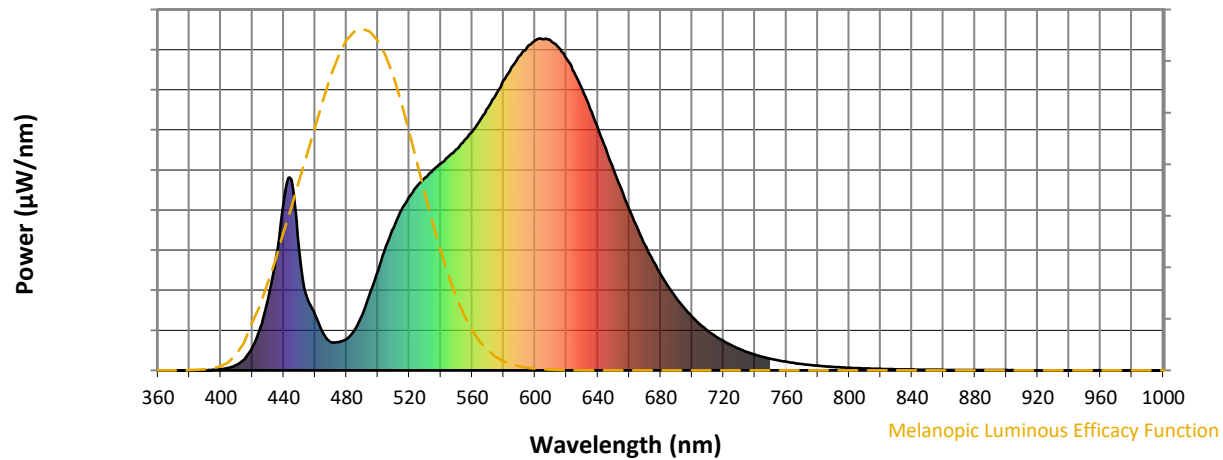
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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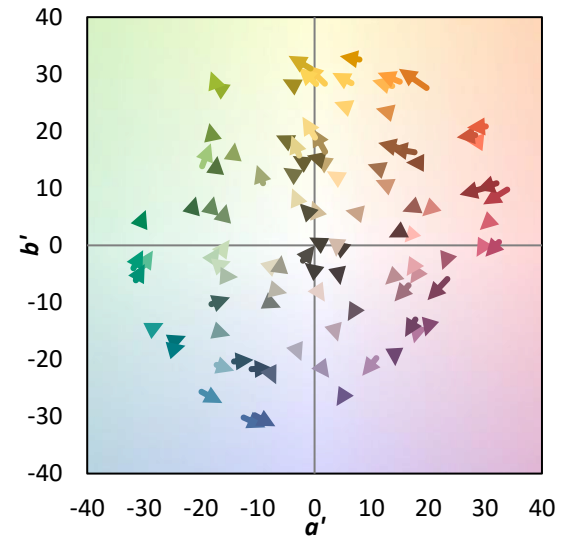
TM-30-18

Summary

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

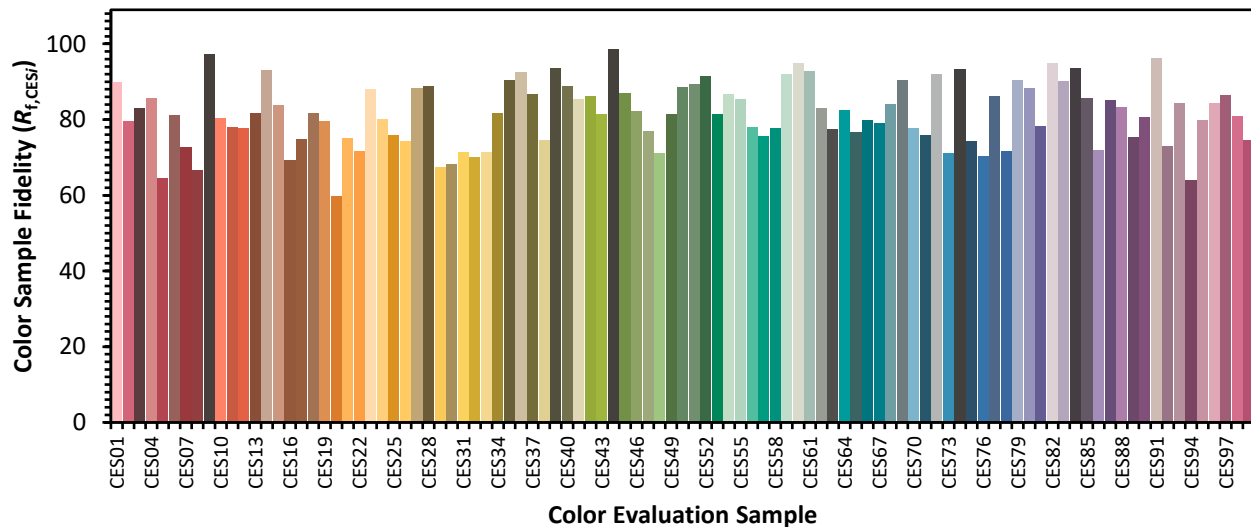


Color Vector Graphics

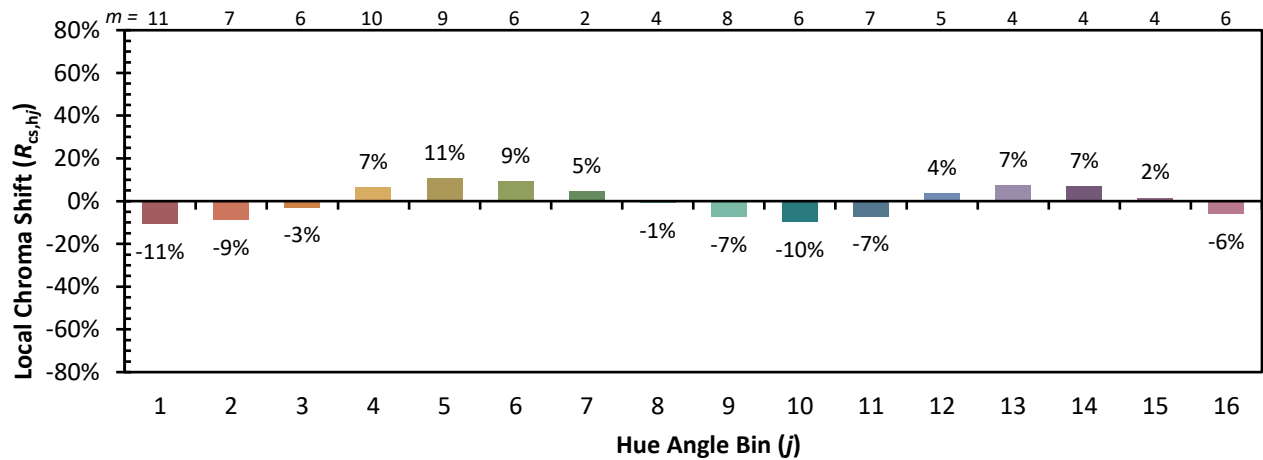


Individual Sample Fidelity Index ($R_{f,i}$)

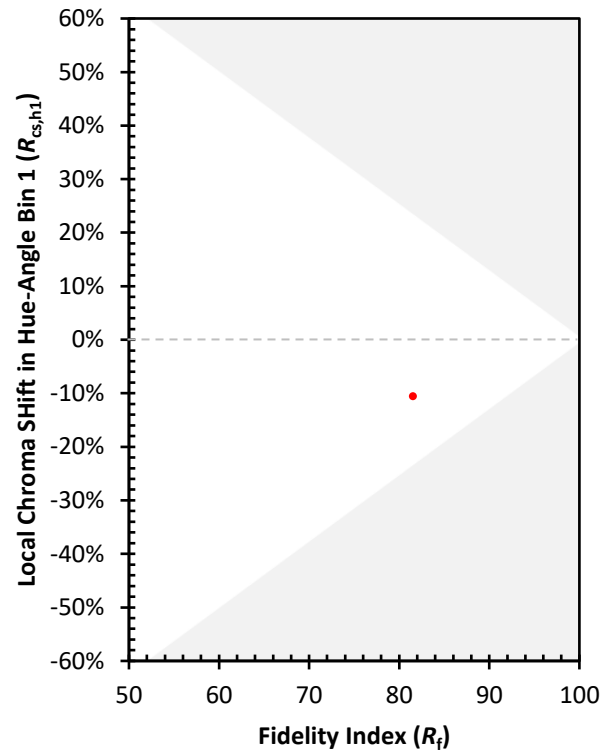
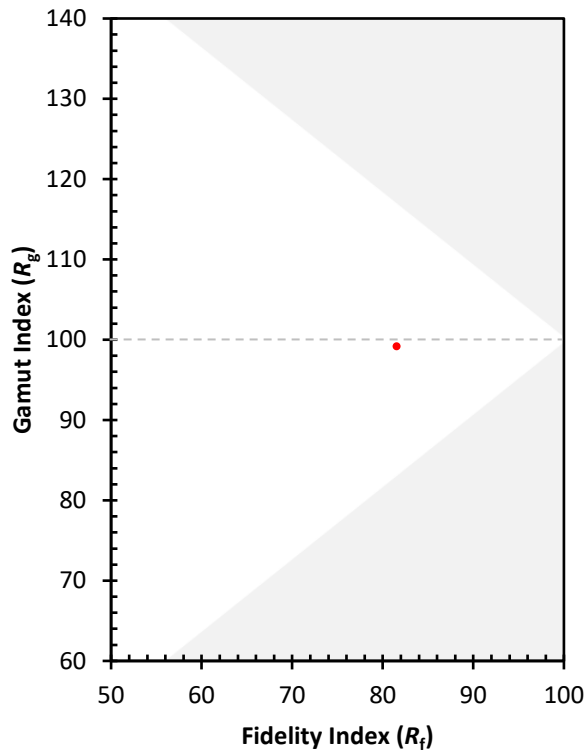
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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