

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: P317939

Luminaire Tested: **GLEON-SA5D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31508 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

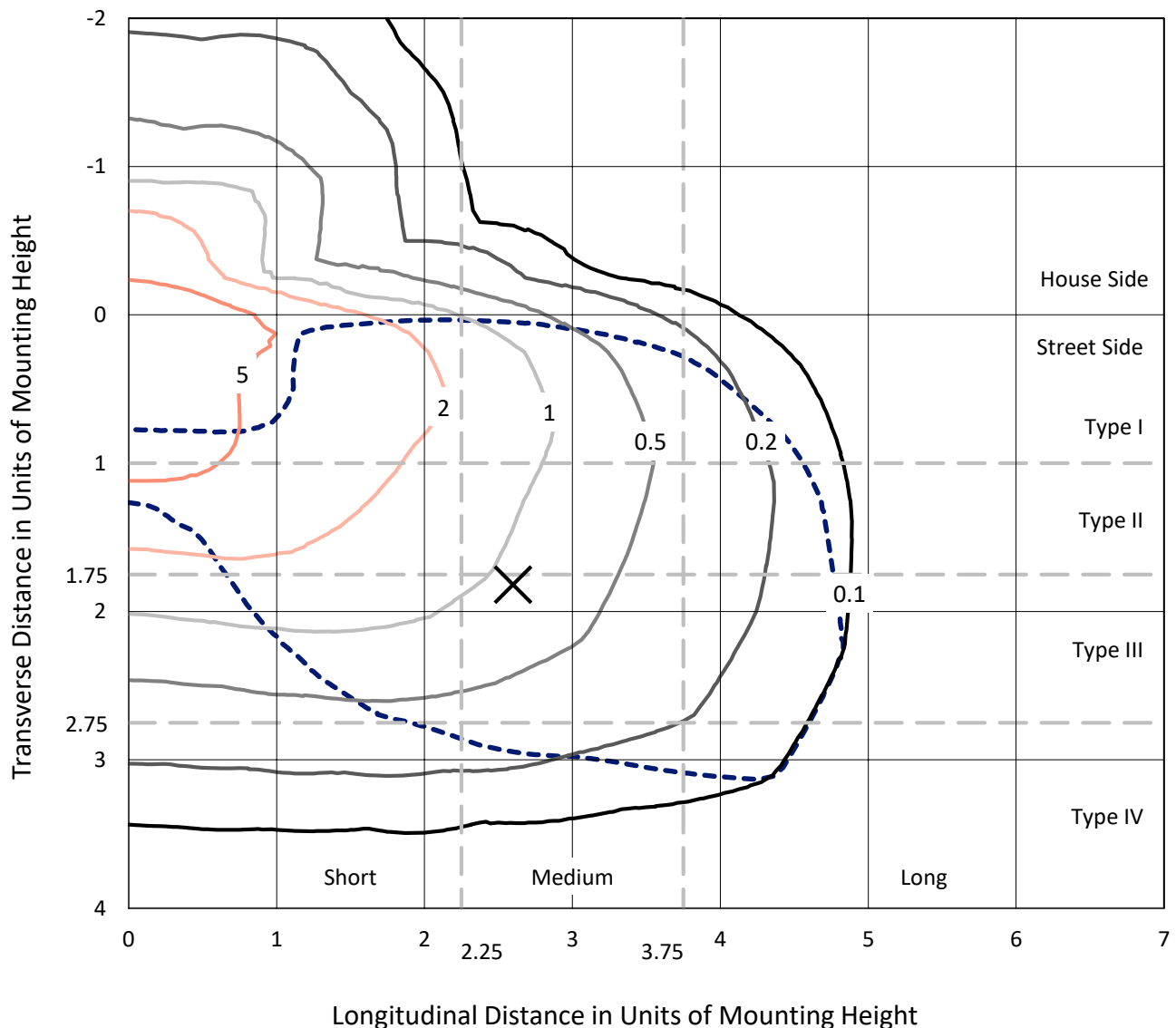
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

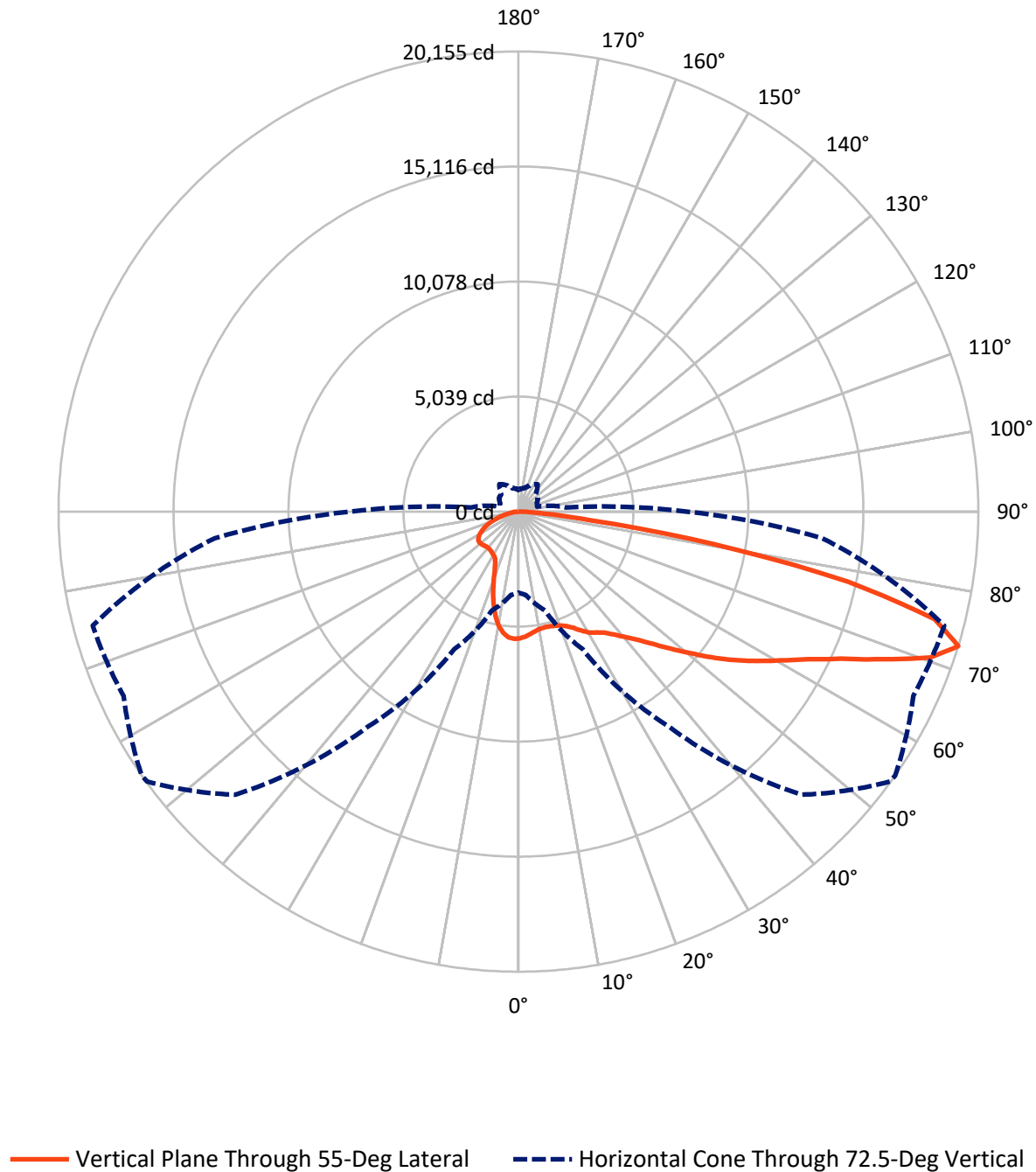
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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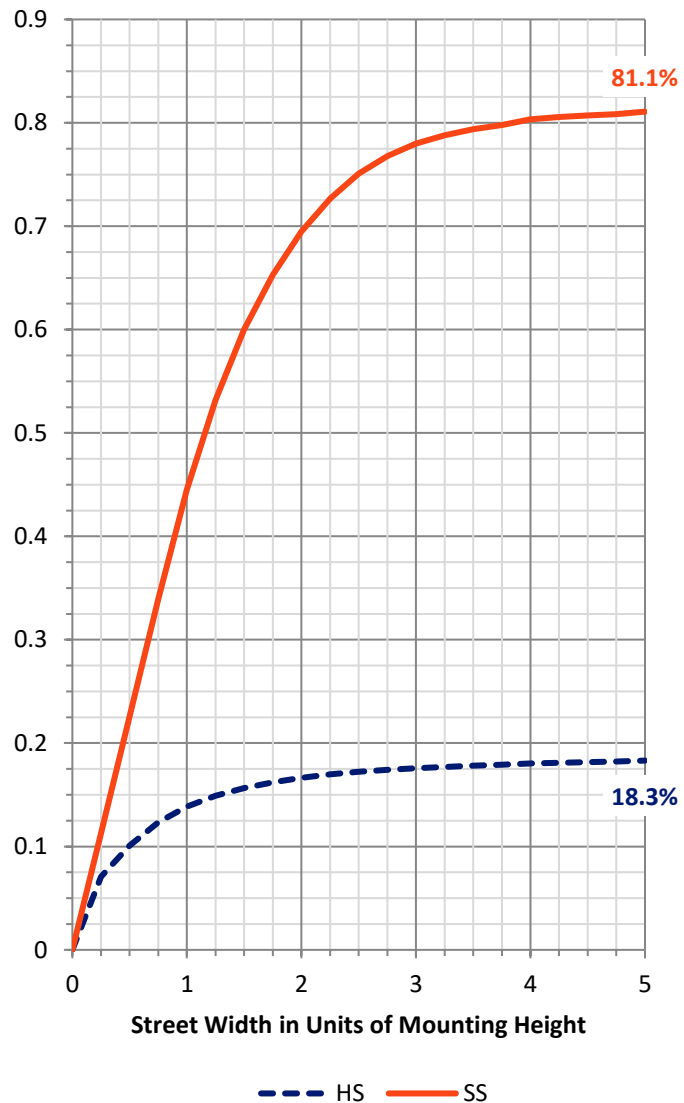
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5856.3	0.0	5856.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25651.7	0.0	25651.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	31508.0	0.0	31508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.9	1.6
10°-20°	1338.8	4.2
20°-30°	2207.4	7.0
30°-40°	3265.3	10.4
40°-50°	4557.7	14.5
50°-60°	5934.2	18.8
60°-70°	7293.0	23.1
70°-80°	5716.8	18.1
80°-90°	691.8	2.2
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°	31508.0	100.0
0°-180°	31508.0	100.0

Coefficient of Utilization



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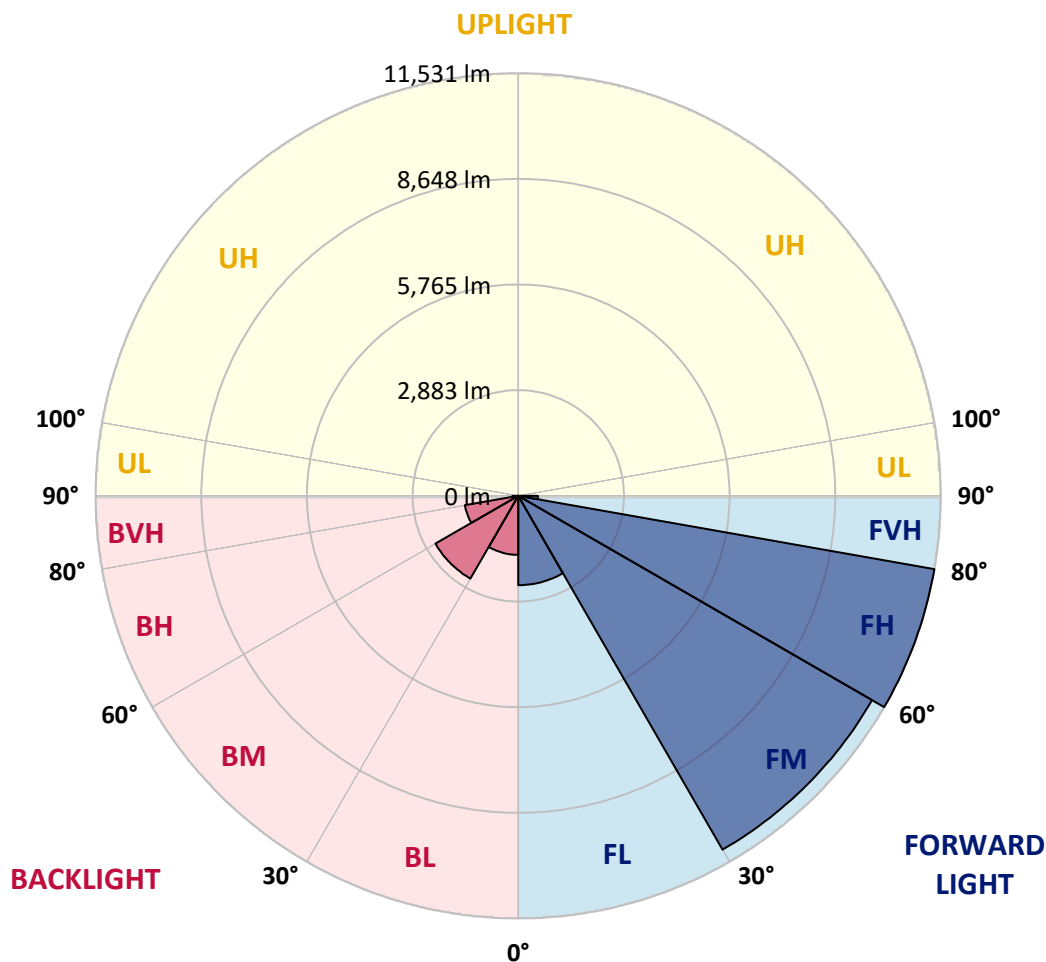
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2437.8	7.7			
FM	(30°-60°)	11148.2	35.4			
FH	(60°-80°)	11530.9	36.6			G4/12000
FVH	(80°-90°)	534.9	1.7			G4/750
BL	(0°-30°)	1611.3	5.1	B3/2500		
BM	(30°-60°)	2609.1	8.3	B3/5000		
BH	(60°-80°)	1479.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	156.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3
2.5°	5376.4	5363.6	5379.6	5402.0	5426.4	5459.4	5478.6	5487.1	5520.1	5532.9	5560.5
5°	5127.4	5121.0	5147.6	5185.9	5240.2	5316.8	5378.5	5390.3	5477.5	5539.2	5595.6
7.5°	4946.5	4946.5	4977.3	5023.1	5083.8	5187.0	5274.3	5290.2	5438.1	5571.2	5675.5
10°	4802.8	4808.1	4844.3	4898.6	4969.9	5079.5	5195.5	5213.6	5427.5	5645.7	5811.7
12.5°	4707.0	4719.8	4752.8	4801.7	4890.1	5023.1	5170.0	5194.4	5449.8	5752.1	5975.6
15°	4767.7	4789.0	4792.2	4812.4	4861.3	5006.1	5184.9	5210.4	5497.7	5860.6	6161.8
17.5°	5033.7	5041.2	5008.2	4965.6	4942.2	5034.8	5229.6	5256.2	5555.2	5968.1	6340.6
20°	5438.1	5433.9	5362.6	5247.6	5128.5	5143.4	5303.0	5330.7	5632.9	6062.8	6519.4
22.5°	5949.0	5934.1	5824.5	5612.7	5409.4	5324.3	5431.8	5455.2	5750.0	6198.0	6710.9
25°	6568.3	6535.3	6390.6	6106.5	5807.4	5588.2	5625.4	5647.8	5920.2	6349.1	6886.5
27.5°	7221.8	7188.8	7004.7	6660.9	6262.9	5921.3	5892.6	5911.7	6113.9	6460.9	7016.4
30°	7905.0	7869.9	7701.7	7316.5	6746.1	6266.1	6141.6	6149.0	6250.1	6521.5	7122.8
32.5°	8591.4	8558.4	8370.1	7923.1	7270.7	6636.4	6321.4	6311.9	6332.1	6584.3	7243.1
35°	9287.4	9300.2	9079.9	8585.0	7851.8	7048.3	6534.3	6514.1	6469.4	6713.1	7413.3
37.5°	10032.4	10023.8	9738.6	9221.4	8459.4	7495.3	6839.7	6836.5	6682.2	6956.8	7680.4
40°	10530.4	10535.7	10362.3	9872.7	9073.5	7990.1	7231.3	7223.9	7021.7	7321.8	8030.6
42.5°	10725.2	10760.3	10805.0	10494.2	9716.3	8563.7	7698.5	7687.9	7495.3	7845.4	8442.4
45°	10739.0	10809.2	11085.9	11046.6	10367.6	9220.4	8295.6	8265.8	8127.4	8541.4	8934.1
47.5°	10619.8	10692.2	11151.9	11375.4	10949.7	9913.2	8993.7	8970.3	8851.1	9411.9	9466.2
50°	10359.1	10428.2	11015.7	11536.1	11428.6	10579.4	9798.2	9736.5	9672.7	10417.6	10074.9
52.5°	9870.6	10003.6	10833.7	11574.4	11714.9	11171.1	10644.3	10603.8	10639.0	11478.6	10684.7
55°	8713.8	8862.8	10364.4	11542.5	11926.7	11668.1	11490.3	11488.2	11670.2	12591.8	11339.2
57.5°	8065.7	8171.0	9408.7	11488.2	12177.8	12161.9	12327.9	12348.1	12702.5	13803.9	12024.6
60°	7699.6	7810.3	8924.5	11287.1	12567.3	12800.4	13182.4	13222.9	13751.8	15145.9	12849.3
62.5°	7366.5	7487.8	8624.4	10877.3	13026.0	13713.5	14206.2	14242.4	14862.8	16525.1	13646.4
65°	6797.1	6934.4	8184.9	10608.1	13443.2	14904.3	15507.7	15532.2	16138.8	17970.3	14256.2
67.5°	5992.6	6118.2	7355.9	10013.2	13751.8	16350.6	17238.2	17252.0	17404.2	18990.9	14568.0
70°	5052.9	5100.8	6174.6	8785.1	13386.8	17703.2	19134.6	19137.8	18557.8	19644.4	14517.0
72.5°	3550.2	3663.0	4482.5	6650.3	11504.2	17538.3	20119.0	20155.2	19094.2	19314.4	13357.0
75°	2177.4	2296.6	2811.7	4030.2	7298.4	13793.3	18588.7	18839.8	18088.5	17221.1	10911.4
77.5°	1455.8	1500.5	1834.7	2349.8	3306.5	7935.9	14291.3	14763.9	15026.7	12558.8	6978.1
80°	812.0	897.1	1216.4	1460.1	1470.7	3153.3	8569.1	8679.7	8360.5	5000.7	2152.9
82.5°	429.9	476.8	812.0	857.8	802.4	1055.7	3193.7	3196.9	2671.2	1340.9	639.6
85°	333.1	372.5	556.6	523.6	409.7	468.3	1053.6	1111.0	908.8	549.1	208.6
87.5°	166.0	206.5	377.8	332.0	160.7	134.1	376.7	402.3	358.6	215.0	75.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3	5557.3
2.5°	5571.2	5580.7	5592.5	5579.7	5575.4	5558.4	5529.7	5523.3	5508.4	5509.4	5518.0
5°	5620.1	5636.1	5629.7	5580.7	5522.2	5440.3	5355.1	5282.8	5234.9	5231.7	5228.5
7.5°	5713.8	5724.4	5674.4	5535.0	5371.1	5181.7	5002.9	4846.4	4751.7	4728.3	4723.0
10°	5860.6	5858.5	5721.2	5440.3	5113.6	4775.1	4487.8	4270.7	4144.1	4106.8	4097.2
12.5°	6024.5	6000.0	5737.2	5267.9	4749.6	4280.3	3916.3	3674.7	3542.8	3500.2	3489.6
15°	6193.7	6133.1	5697.8	5010.3	4302.6	3747.1	3365.0	3141.6	3070.3	3046.8	3042.6
17.5°	6351.2	6234.2	5585.0	4661.3	3792.9	3216.1	2918.1	2828.7	2845.7	2876.6	2877.6
20°	6505.5	6302.3	5404.1	4220.7	3255.4	2778.7	2677.6	2743.5	2824.4	2887.2	2895.7
22.5°	6657.7	6350.2	5171.0	3712.0	2774.4	2532.8	2604.1	2724.4	2817.0	2885.1	2896.8
25°	6785.4	6361.9	4849.6	3169.2	2440.2	2440.2	2569.0	2682.9	2774.4	2841.5	2853.2
27.5°	6832.3	6283.1	4396.3	2666.9	2272.1	2397.7	2520.1	2614.8	2692.5	2763.8	2776.5
30°	6850.4	6137.3	3872.7	2263.6	2202.9	2351.9	2454.1	2535.0	2608.4	2675.4	2687.1
32.5°	6853.5	5961.7	3317.2	2034.8	2155.0	2304.0	2372.1	2443.4	2522.2	2548.8	2553.1
35°	6873.8	5754.2	2731.8	1917.7	2110.3	2259.3	2313.6	2364.7	2237.0	2246.6	2255.1
37.5°	6932.3	5548.8	2242.3	1851.7	2081.6	2235.9	2300.8	2115.7	2015.6	1992.2	1989.0
40°	7041.9	5329.6	1879.4	1798.5	2071.0	2247.6	2218.9	1975.2	1802.8	1674.0	1654.9
42.5°	7194.1	5093.3	1647.4	1763.4	2078.4	2304.0	2105.0	1840.0	1553.8	1470.7	1460.1
45°	7365.4	4845.4	1521.8	1738.9	2104.0	2347.7	2081.6	1660.2	1437.8	1375.0	1369.6
47.5°	7531.5	4542.1	1456.9	1728.3	2139.1	2312.5	1982.6	1604.8	1382.4	1349.4	1352.6
50°	7721.9	4268.6	1417.5	1716.6	2169.9	2290.2	1870.9	1576.1	1361.1	1401.6	1444.1
52.5°	7882.6	3985.5	1382.4	1693.2	2181.6	2250.8	1842.2	1581.4	1361.1	1438.8	1479.3
55°	8073.1	3771.6	1342.0	1644.2	2159.3	2139.1	1821.9	1613.4	1377.1	1328.1	1332.4
57.5°	8319.0	3701.3	1297.3	1567.6	2084.8	1976.2	1812.4	1644.2	1367.5	1336.7	1347.3
60°	8659.5	3775.8	1279.2	1467.6	1968.8	1848.5	1813.4	1628.2	1300.5	1247.3	1248.3
62.5°	8984.1	3858.8	1278.1	1404.8	1826.2	1734.7	1788.9	1576.1	1266.4	1235.6	1247.3
65°	9090.5	3774.8	1227.0	1334.5	1665.5	1598.5	1744.2	1520.8	1240.9	1194.0	1191.9
67.5°	8947.9	3514.0	1123.8	1220.7	1481.4	1439.9	1685.7	1454.8	1200.4	1162.1	1155.7
70°	8524.4	2931.9	996.1	1070.6	1271.7	1261.1	1593.1	1378.2	1146.2	1113.2	1085.5
72.5°	7384.6	2089.1	839.7	890.7	1035.5	1069.5	1465.4	1278.1	1069.5	998.2	955.7
75°	6065.0	1546.3	689.6	700.3	786.5	879.0	1289.8	1161.1	979.1	857.8	824.8
77.5°	3714.1	946.1	549.1	553.4	564.0	701.3	1062.1	1030.2	864.1	715.2	691.7
80°	1202.6	516.1	397.0	417.2	385.2	514.0	821.6	876.9	741.8	598.1	572.5
82.5°	457.6	301.2	268.2	282.0	267.1	344.8	599.2	702.4	607.7	491.7	400.1
85°	221.4	170.3	158.6	177.7	165.0	176.7	383.1	517.2	460.8	320.3	298.0
87.5°	78.8	75.6	60.7	81.9	70.2	62.8	117.1	260.7	304.4	220.3	196.9
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



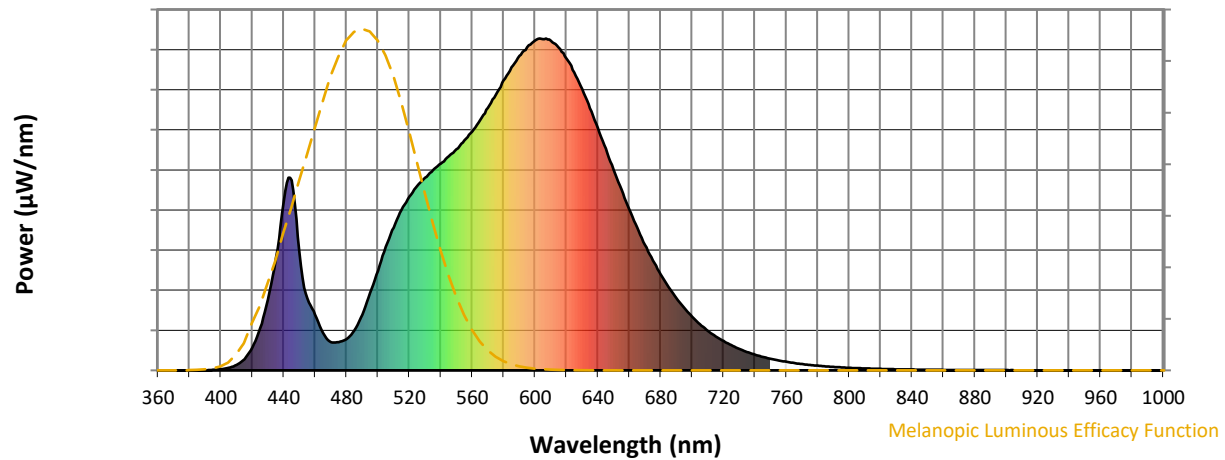
Scotopic Lumens: NR

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

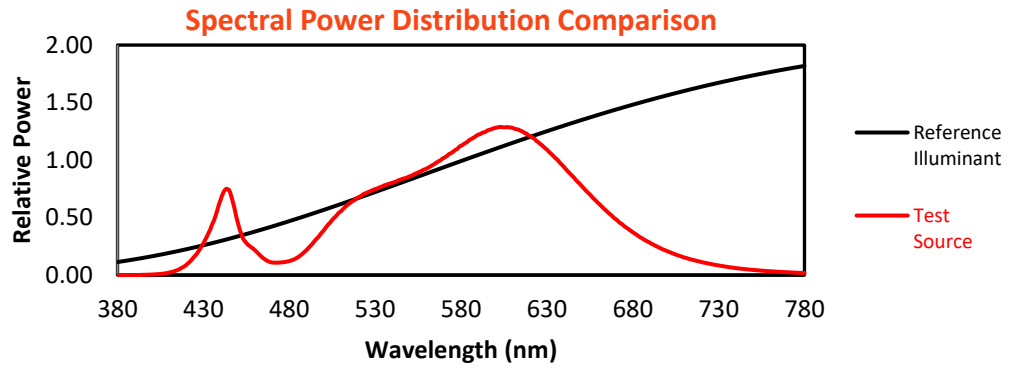
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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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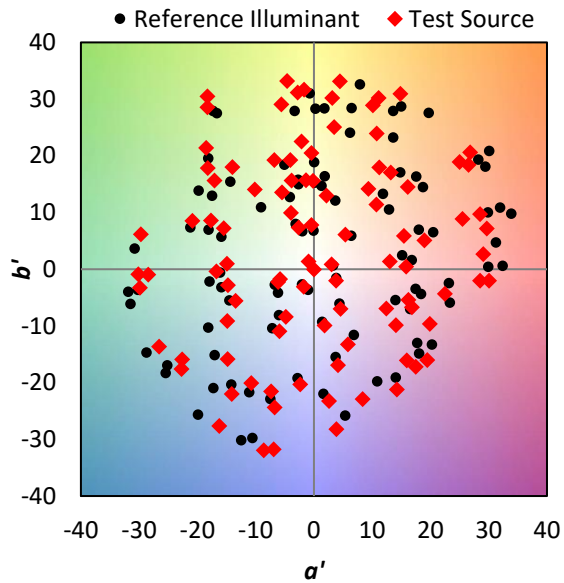
TM-30-18

Summary

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



Color Vector Graphics

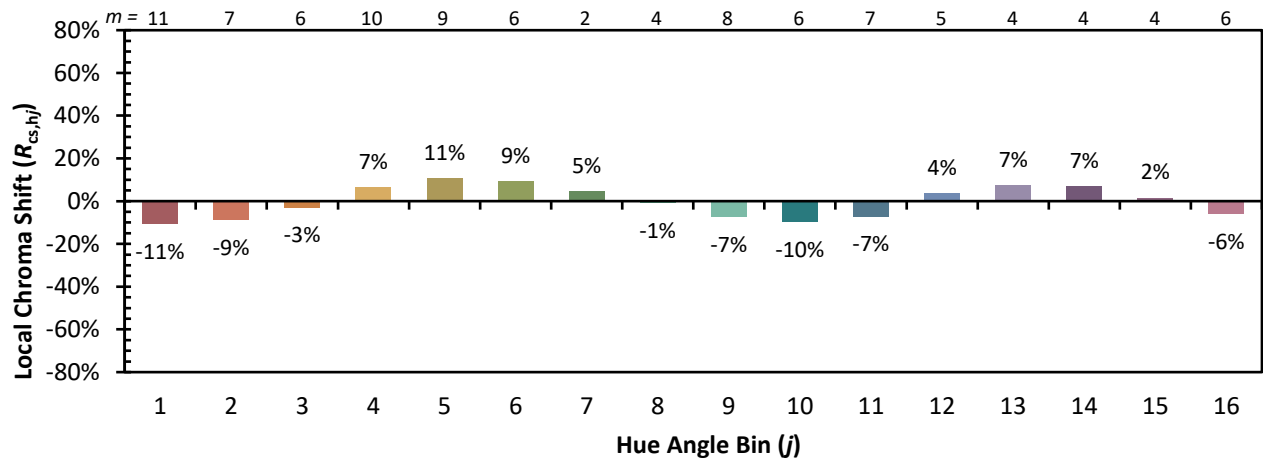


Individual Sample Fidelity Index ($R_{f,i}$)

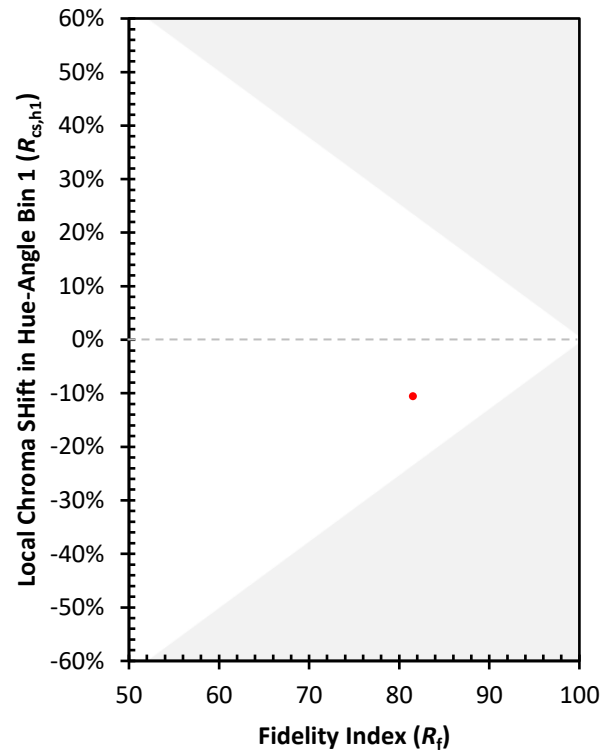
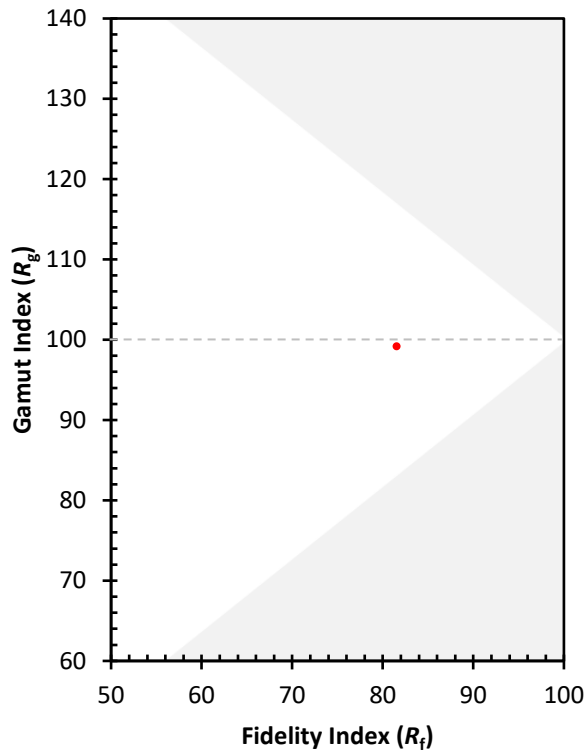
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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