

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: P321746

Luminaire Tested: **GLEON-SA2A-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5828 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

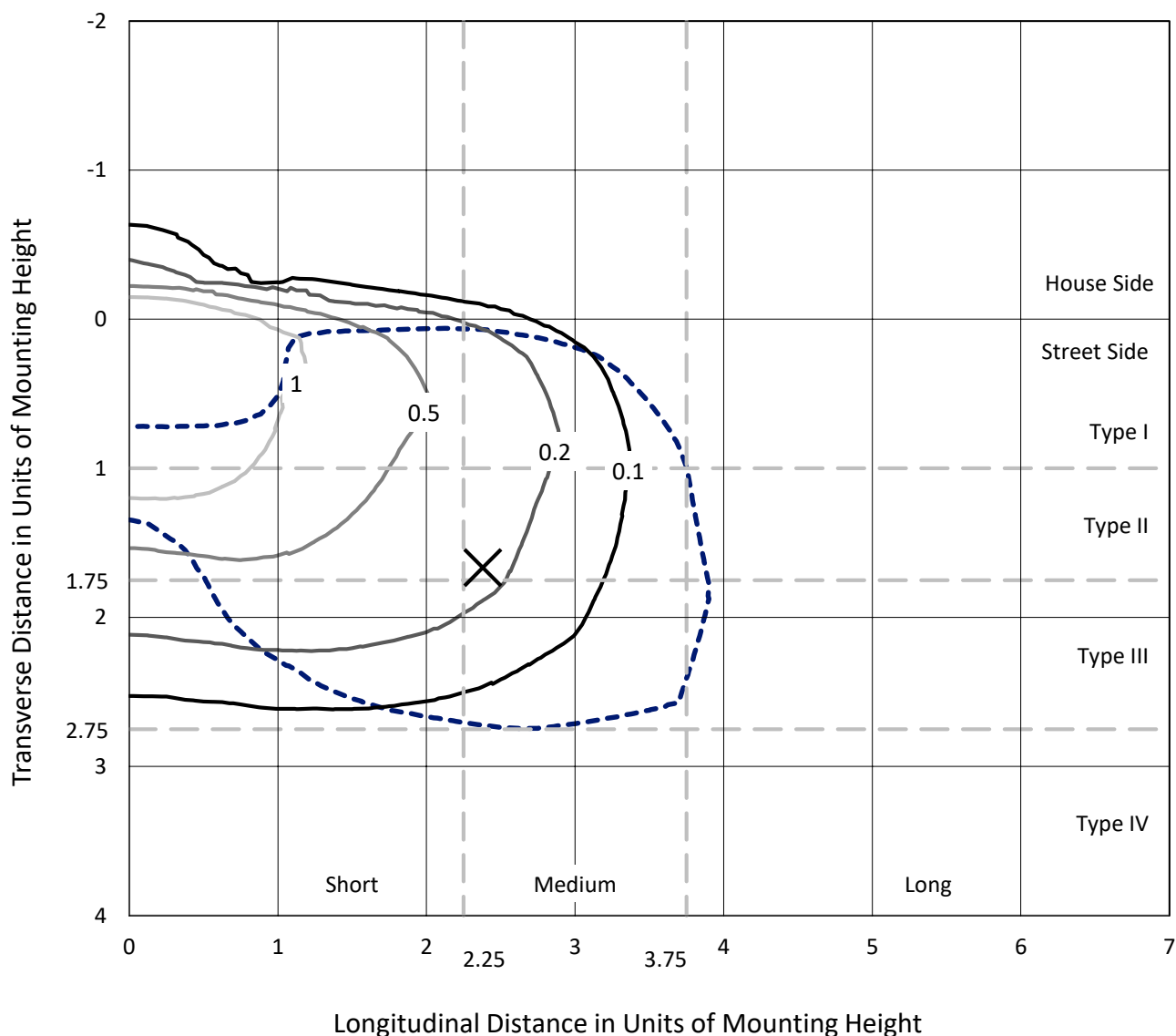
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

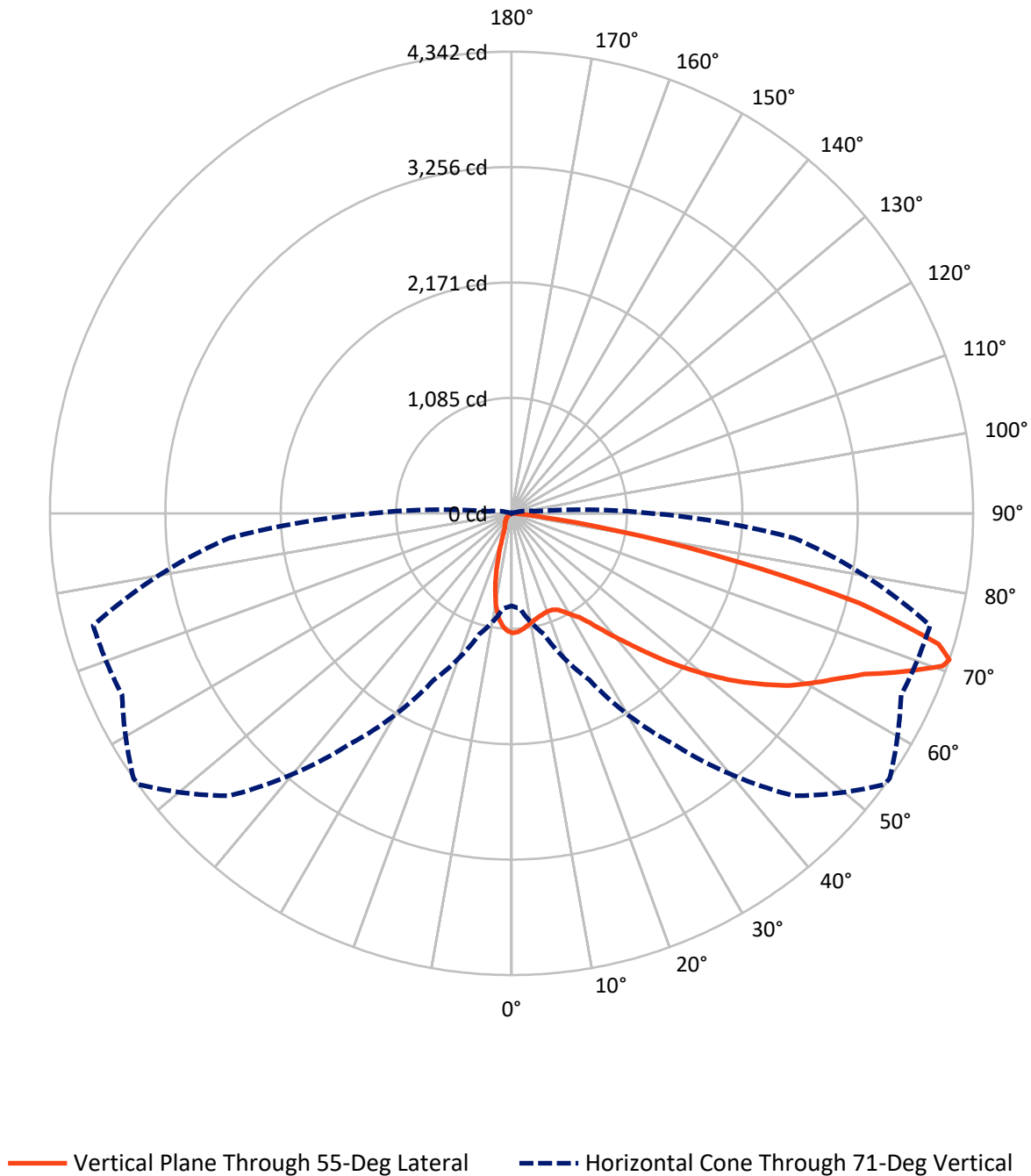
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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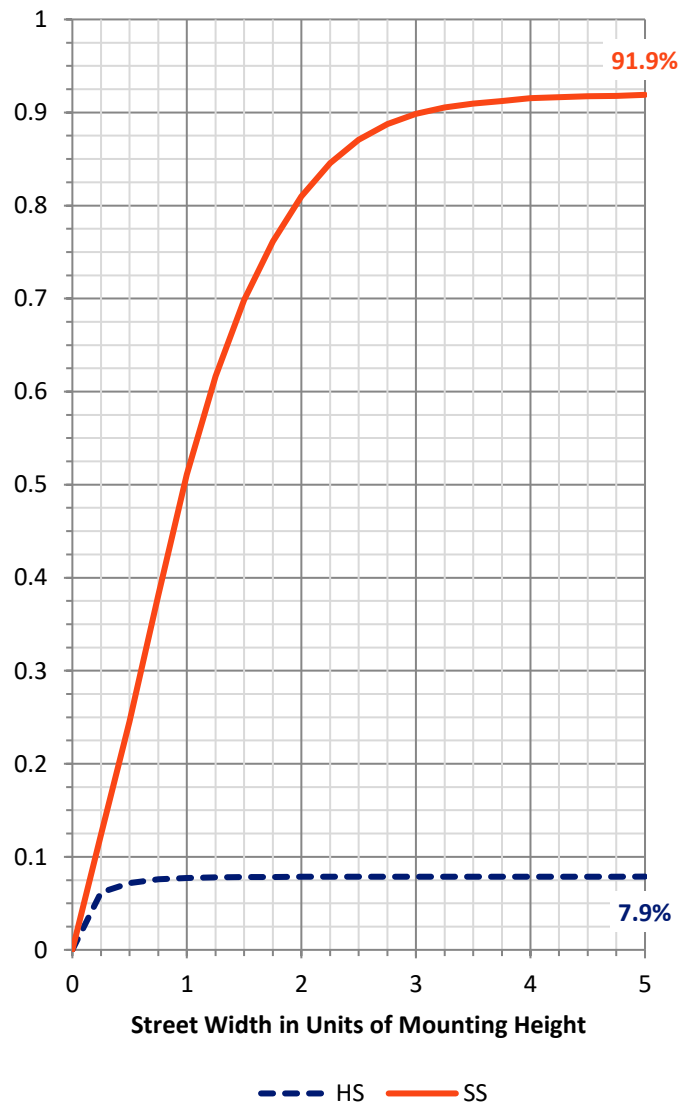
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.4	0.0	461.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	5366.6	0.0	5366.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	5828.0	0.0	5828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.6
10°-20°	216.3	3.7
20°-30°	347.7	6.0
30°-40°	590.7	10.1
40°-50°	916.9	15.7
50°-60°	1232.7	21.2
60°-70°	1508.0	25.9
70°-80°	881.7	15.1
80°-90°	38.1	0.7
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°	5828.0	100.0
0°-180°	5828.0	100.0

Coefficient of Utilization



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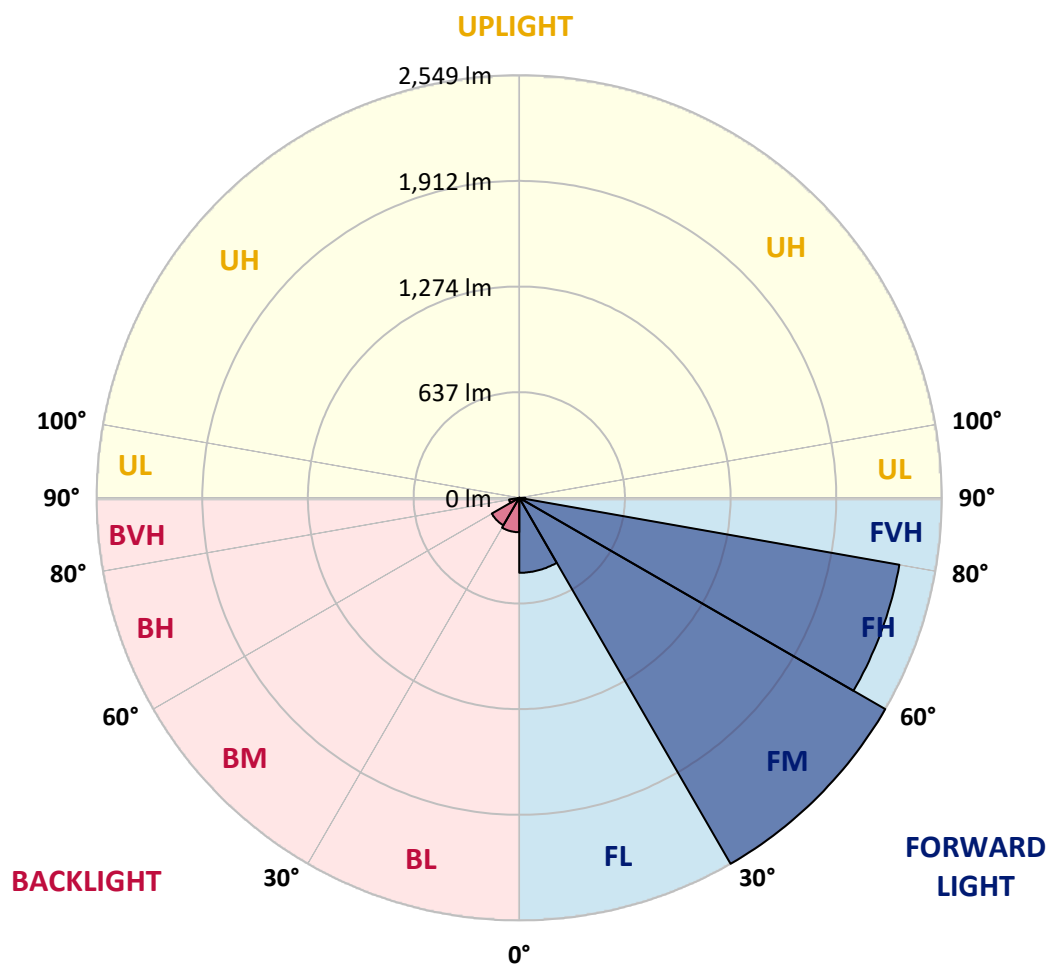
CATALOG NUMBER: GLEON-SA2A-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.2	7.8			
FM	(30°-60°)	2549.0	43.7			
FH	(60°-80°)	2327.9	39.9			G2/5000
FVH	(80°-90°)	37.5	0.6			G1/100
BL	(0°-30°)	207.7	3.6	B1/500		
BM	(30°-60°)	191.3	3.3	B0/220		
BH	(60°-80°)	61.8	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0
2.5°	1091.0	1092.3	1097.0	1099.1	1104.1	1112.4	1116.6	1116.9	1123.7	1126.3	1128.4
5°	1013.8	1021.6	1029.5	1037.9	1053.0	1073.2	1093.1	1094.9	1116.9	1133.1	1141.7
7.5°	947.3	954.4	963.8	977.1	998.6	1030.3	1063.5	1067.4	1109.0	1145.9	1165.3
10°	879.0	884.8	898.4	918.0	947.6	990.0	1034.7	1041.3	1102.0	1163.2	1197.2
12.5°	806.0	809.4	825.9	854.2	897.6	951.5	1010.4	1019.0	1097.5	1183.1	1234.9
15°	750.5	752.1	767.8	797.1	846.8	917.0	991.5	1002.0	1098.6	1206.9	1276.0
17.5°	736.4	737.2	745.5	765.7	809.7	886.1	976.6	989.4	1101.7	1230.2	1317.3
20°	793.7	788.2	779.6	776.4	795.3	867.5	967.7	982.1	1105.9	1250.9	1354.5
22.5°	951.0	934.8	898.9	851.0	822.0	868.8	970.1	984.5	1119.2	1276.3	1397.4
25°	1184.4	1161.9	1100.9	1006.7	916.2	906.5	989.7	1004.4	1145.1	1306.6	1438.5
27.5°	1450.0	1427.8	1353.2	1218.7	1064.3	981.1	1034.7	1048.3	1183.6	1333.6	1469.9
30°	1704.4	1698.1	1610.2	1457.3	1250.6	1102.0	1092.8	1104.3	1212.1	1349.8	1494.8
32.5°	1920.0	1910.1	1839.4	1690.8	1463.9	1247.2	1161.1	1164.5	1233.6	1370.7	1527.2
35°	2119.9	2107.6	2045.6	1905.1	1682.7	1424.6	1266.3	1261.3	1280.4	1412.9	1574.3
37.5°	2294.5	2305.7	2236.9	2103.2	1878.9	1609.1	1408.1	1393.2	1353.7	1481.4	1642.6
40°	2440.5	2440.5	2404.7	2293.2	2090.9	1799.9	1568.6	1548.9	1463.9	1587.1	1729.2
42.5°	2493.1	2504.4	2517.7	2454.6	2280.6	1998.3	1747.3	1726.9	1619.1	1737.1	1838.6
45°	2496.2	2514.0	2582.3	2582.1	2452.0	2195.3	1948.8	1939.1	1817.9	1929.7	1974.2
47.5°	2452.0	2474.3	2586.8	2650.6	2587.8	2378.7	2169.1	2157.1	2051.6	2165.7	2116.0
50°	2383.7	2408.3	2539.2	2677.6	2680.2	2538.4	2401.3	2383.2	2308.9	2435.5	2262.6
52.5°	2261.5	2309.1	2496.5	2683.9	2740.9	2676.3	2622.1	2614.3	2596.7	2695.4	2379.3
55°	2000.1	2052.9	2389.5	2686.0	2797.2	2798.5	2829.1	2831.2	2866.5	2938.2	2466.1
57.5°	1876.6	1906.4	2202.6	2695.9	2880.7	2937.2	3040.0	3056.3	3110.9	3168.8	2565.3
60°	1798.8	1834.2	2110.5	2682.3	3011.8	3119.1	3235.5	3241.0	3299.6	3406.7	2699.6
62.5°	1736.8	1771.6	2052.4	2630.0	3159.1	3337.8	3426.5	3427.1	3471.0	3690.1	2852.1
65°	1583.7	1613.0	1934.9	2571.1	3256.4	3554.2	3648.5	3645.1	3680.9	3988.9	3029.3
67.5°	1362.3	1384.9	1695.0	2347.9	3219.8	3751.0	3983.4	3972.2	3928.7	4247.2	3098.9
70°	1053.3	1061.4	1335.9	1956.6	2876.5	3826.7	4307.1	4301.4	4080.8	4200.9	2843.8
71°	870.6	897.3	1177.3	1726.9	2646.5	3756.8	4338.5	4341.9	4042.6	4074.7	2668.2
72.5°	505.6	528.3	853.4	1326.2	2246.9	3465.3	4175.8	4200.4	3864.1	3706.3	2279.0
75°	108.3	115.9	316.4	641.9	1236.0	2428.7	3296.0	3383.6	3149.4	2521.4	1373.6
77.5°	75.4	81.4	135.6	291.3	408.5	1200.1	2047.4	2146.4	1881.5	947.6	439.6
80°	59.7	66.5	105.7	143.9	110.4	387.0	959.1	1019.5	627.5	211.4	74.1
82.5°	33.2	39.5	82.4	77.7	42.4	73.5	268.5	303.6	125.6	42.7	17.5
85°	9.7	11.8	53.1	56.5	18.1	14.1	45.8	56.8	23.8	11.3	7.9
87.5°	0.0	0.0	25.6	21.7	5.2	2.1	4.2	4.7	4.7	4.7	5.2
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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CATALOG NUMBER: GLEON-SA2A-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0	1124.0
2.5°	1128.4	1130.2	1123.7	1115.1	1105.9	1094.6	1082.9	1073.7	1073.4	1069.0	1064.5
5°	1142.3	1141.2	1123.2	1095.7	1063.2	1029.5	997.3	960.9	948.9	934.0	929.0
7.5°	1167.9	1160.6	1122.4	1062.2	991.0	920.4	847.3	773.8	742.4	714.1	709.2
10°	1200.1	1186.2	1117.4	1011.9	881.4	751.0	640.9	540.9	496.9	463.2	461.6
12.5°	1233.6	1212.4	1103.5	936.1	737.7	554.5	427.6	329.2	292.6	269.0	271.1
15°	1268.7	1237.0	1073.7	833.7	574.1	376.3	262.7	204.9	190.2	184.2	185.8
17.5°	1304.5	1254.0	1032.1	710.5	412.7	242.8	181.9	165.6	165.6	167.0	167.5
20°	1335.7	1263.2	970.9	572.3	279.7	176.9	159.1	156.8	158.1	160.2	160.4
22.5°	1366.5	1263.7	891.0	432.3	195.7	154.9	151.5	150.5	151.3	153.6	153.9
25°	1391.7	1257.4	791.1	307.5	156.2	146.0	144.5	143.9	144.5	147.3	147.3
27.5°	1401.9	1234.6	669.1	216.2	140.0	136.1	135.6	136.1	136.9	139.0	139.2
30°	1402.9	1194.9	536.2	156.5	126.9	122.7	123.8	125.6	124.8	124.3	124.8
32.5°	1405.5	1148.8	406.7	128.8	115.9	109.4	108.1	108.1	104.9	103.1	102.1
35°	1414.2	1094.6	294.9	115.7	104.7	97.1	92.1	86.4	80.3	77.2	76.4
37.5°	1427.8	1037.9	211.2	107.0	94.7	86.1	76.7	66.5	57.8	55.5	55.5
40°	1452.6	979.2	156.2	100.2	86.9	76.2	62.0	48.7	40.8	39.5	39.5
42.5°	1491.9	917.5	124.6	94.2	80.1	65.9	47.4	35.3	29.6	28.8	28.5
45°	1532.7	849.4	108.9	88.5	72.7	54.2	35.1	26.2	22.8	22.0	22.0
47.5°	1573.5	777.0	101.3	83.0	65.7	42.1	26.2	20.7	19.1	19.1	19.4
50°	1608.1	701.3	95.8	76.9	56.5	31.9	20.7	17.5	17.0	18.1	18.3
52.5°	1616.7	627.0	89.0	69.3	45.3	24.3	17.0	15.4	15.4	15.4	15.4
55°	1611.5	569.4	80.1	59.9	33.5	19.4	14.7	13.6	13.3	13.3	13.3
57.5°	1629.3	535.4	64.1	46.6	24.1	15.7	12.8	12.0	11.5	11.3	11.3
60°	1665.1	513.2	45.8	33.5	18.1	13.1	11.0	10.2	9.4	8.9	8.9
62.5°	1712.7	493.8	34.0	24.9	13.9	10.5	9.2	8.4	7.3	6.8	6.8
65°	1749.4	459.3	25.9	18.6	10.5	8.4	7.1	6.8	5.2	4.7	4.4
67.5°	1693.4	383.4	20.9	13.6	7.9	6.5	5.5	5.2	3.1	2.6	2.6
70°	1452.4	266.9	16.7	9.9	5.8	5.2	4.4	3.4	2.4	2.1	2.1
71°	1317.1	223.0	15.2	8.4	5.0	5.0	4.2	2.9	2.1	1.8	1.8
72.5°	1094.1	158.3	12.8	6.5	4.4	5.2	4.4	2.6	2.1	1.8	1.6
75°	635.1	66.2	8.9	4.4	3.4	6.3	5.8	2.4	1.6	1.3	1.3
77.5°	191.0	24.3	5.0	2.9	2.6	5.5	6.5	2.1	0.8	0.3	0.3
80°	34.8	10.5	3.1	1.8	1.8	3.4	5.0	1.0	0.0	0.0	0.0
82.5°	12.3	5.2	1.8	1.0	0.8	1.6	2.4	0.0	0.0	0.0	0.0
85°	7.1	3.7	1.0	0.5	0.0	0.3	0.5	0.0	0.0	0.0	0.0
87.5°	4.7	1.0	0.0	0.0	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

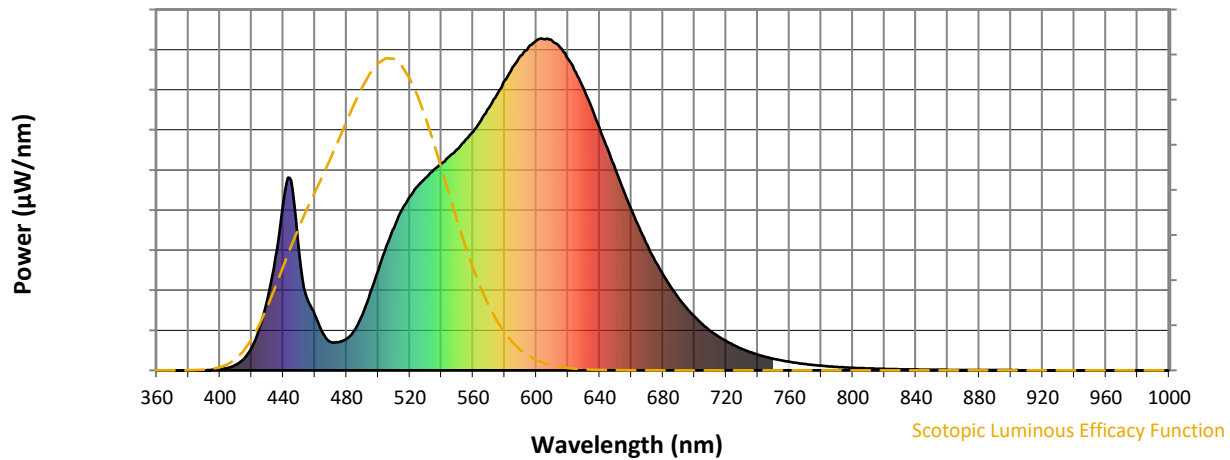


Photopic Lumens: NR

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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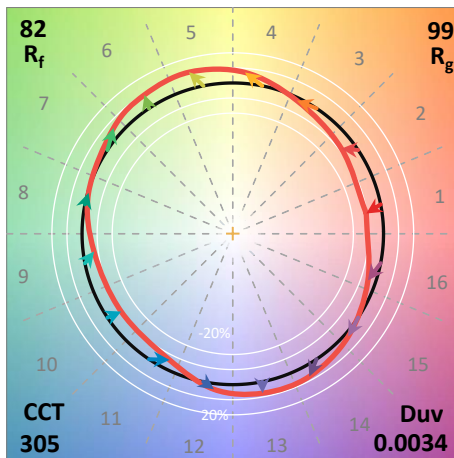
TM-30-18

Summary

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

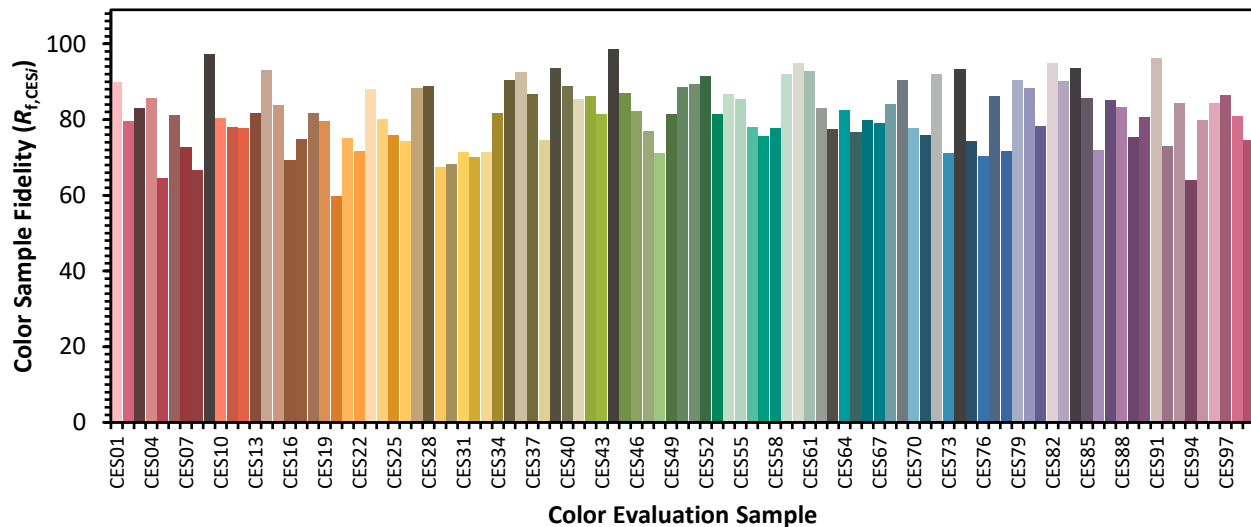


Color Vector Graphics

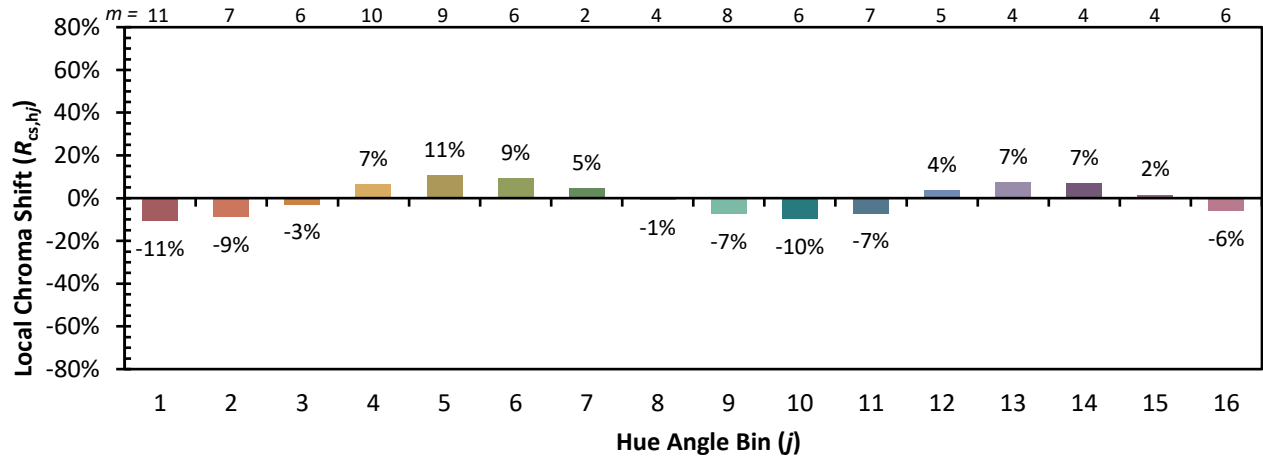


Individual Sample Fidelity Index ($R_{f,i}$)

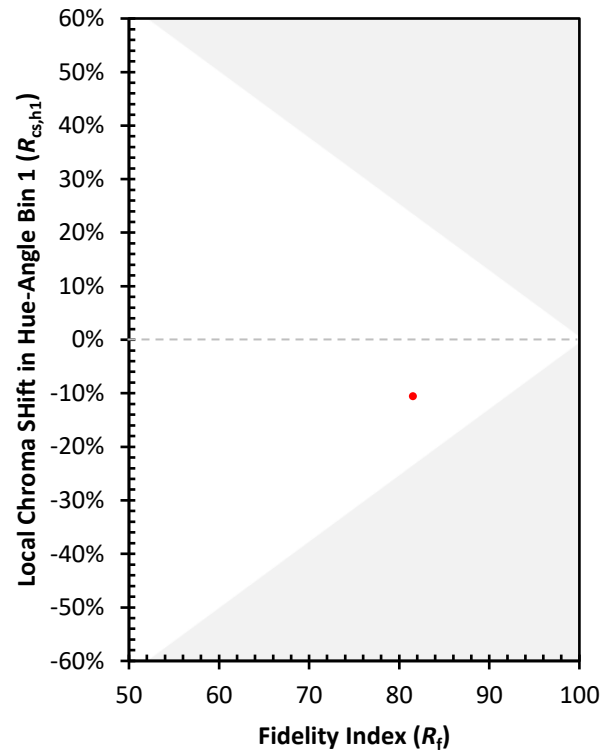
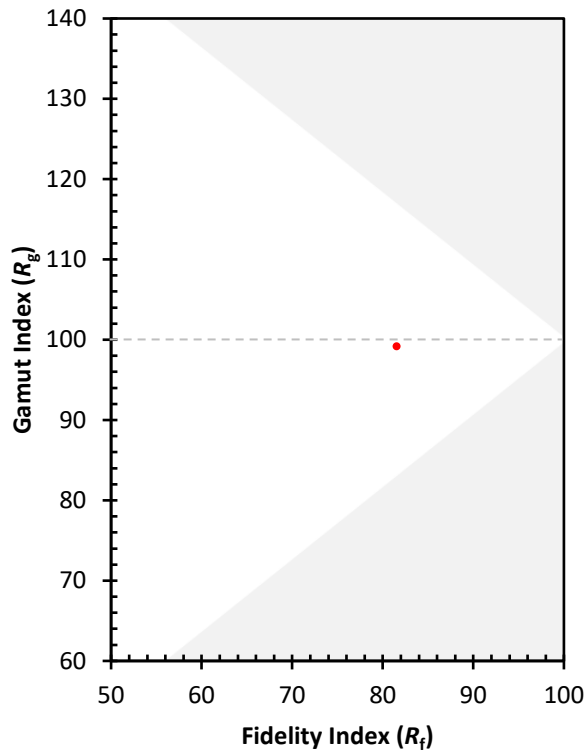
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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