

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: P317613

Luminaire Tested: **GLEON-SA9C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317613
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-SA9C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52348 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

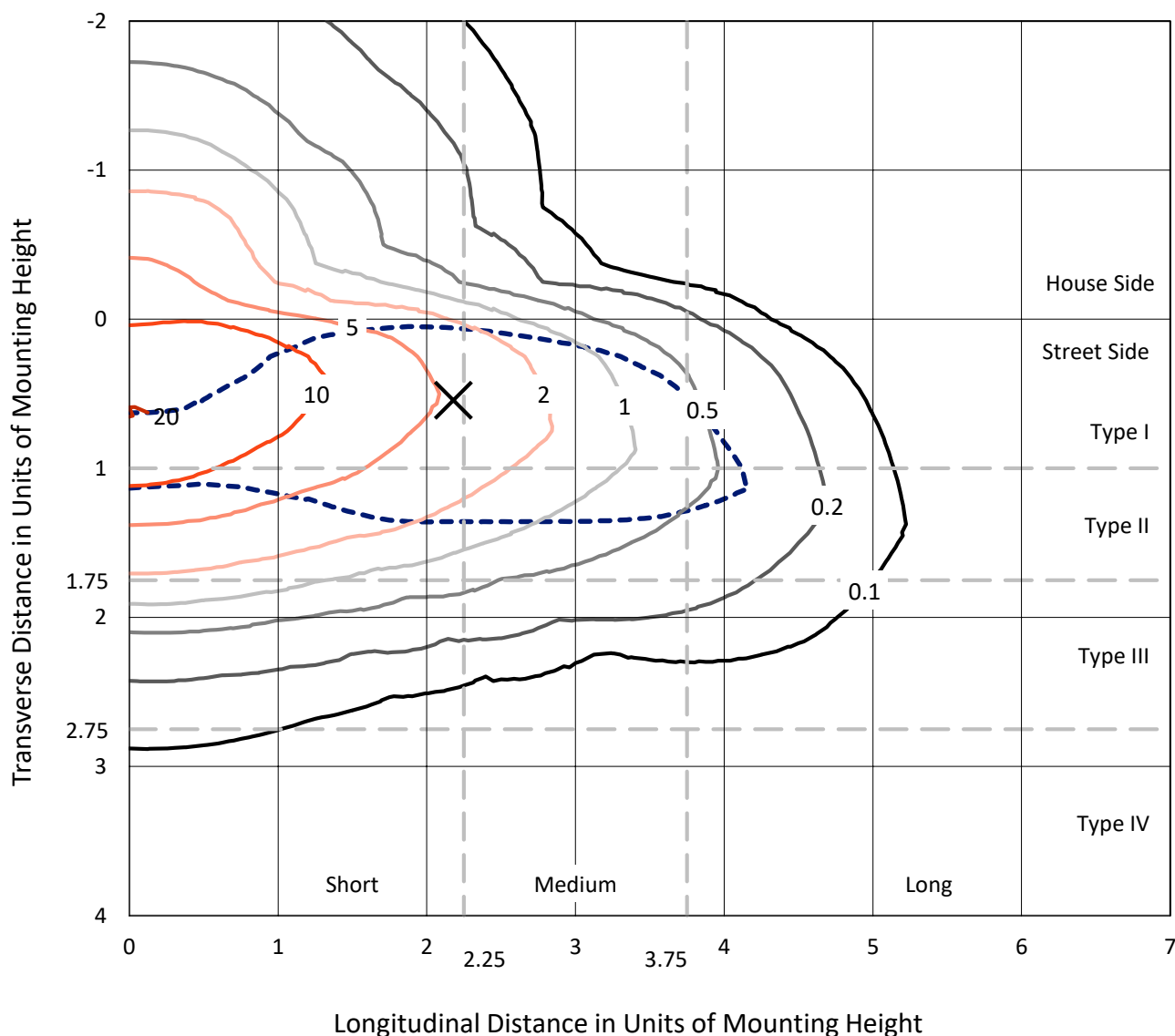
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

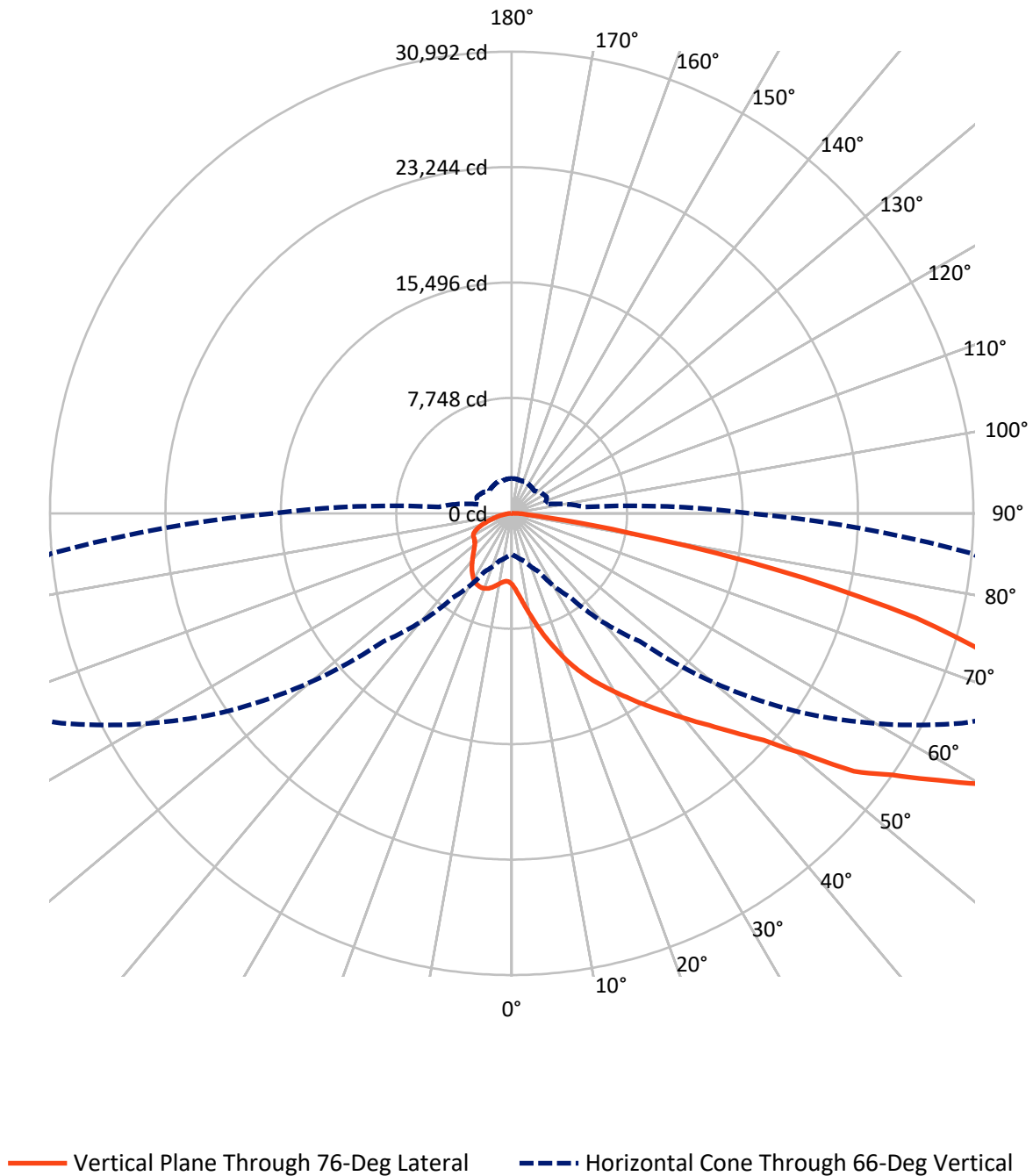
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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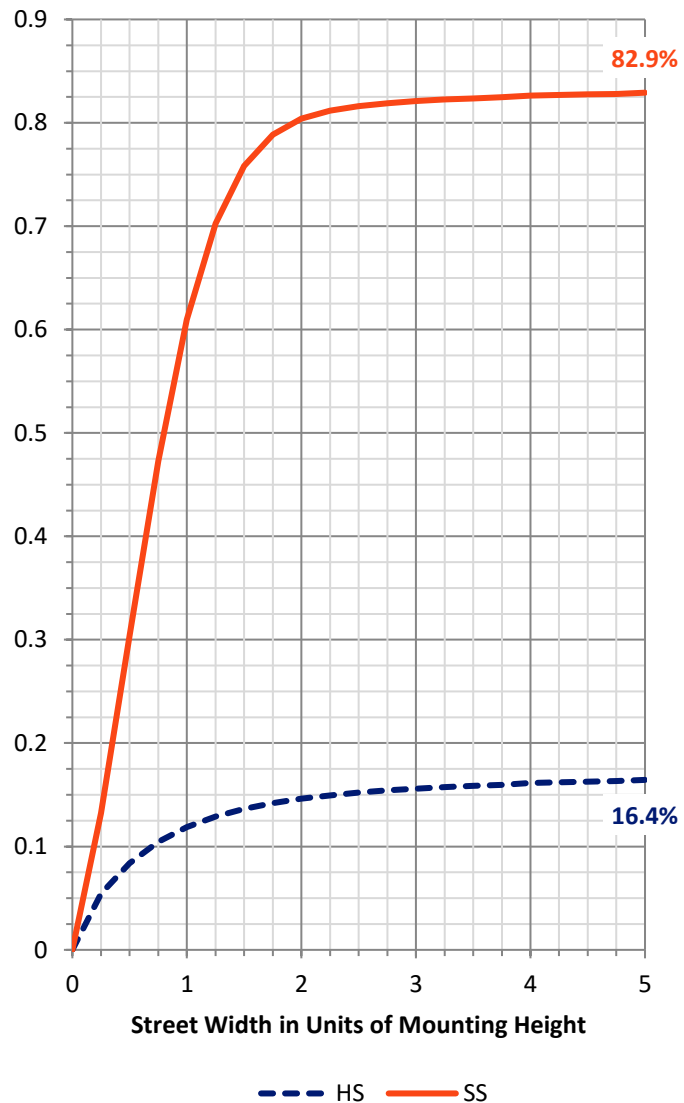
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8808.4	0.0	8808.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	43539.6	0.0	43539.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	52348.0	0.0	52348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.1	1.1
10°-20°	2282.9	4.4
20°-30°	4436.2	8.5
30°-40°	7240.8	13.8
40°-50°	9892.7	18.9
50°-60°	11523.0	22.0
60°-70°	10330.6	19.7
70°-80°	5220.6	10.0
80°-90°	843.1	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°	52348.0	100.0
0°-180°	52348.0	100.0

Coefficient of Utilization



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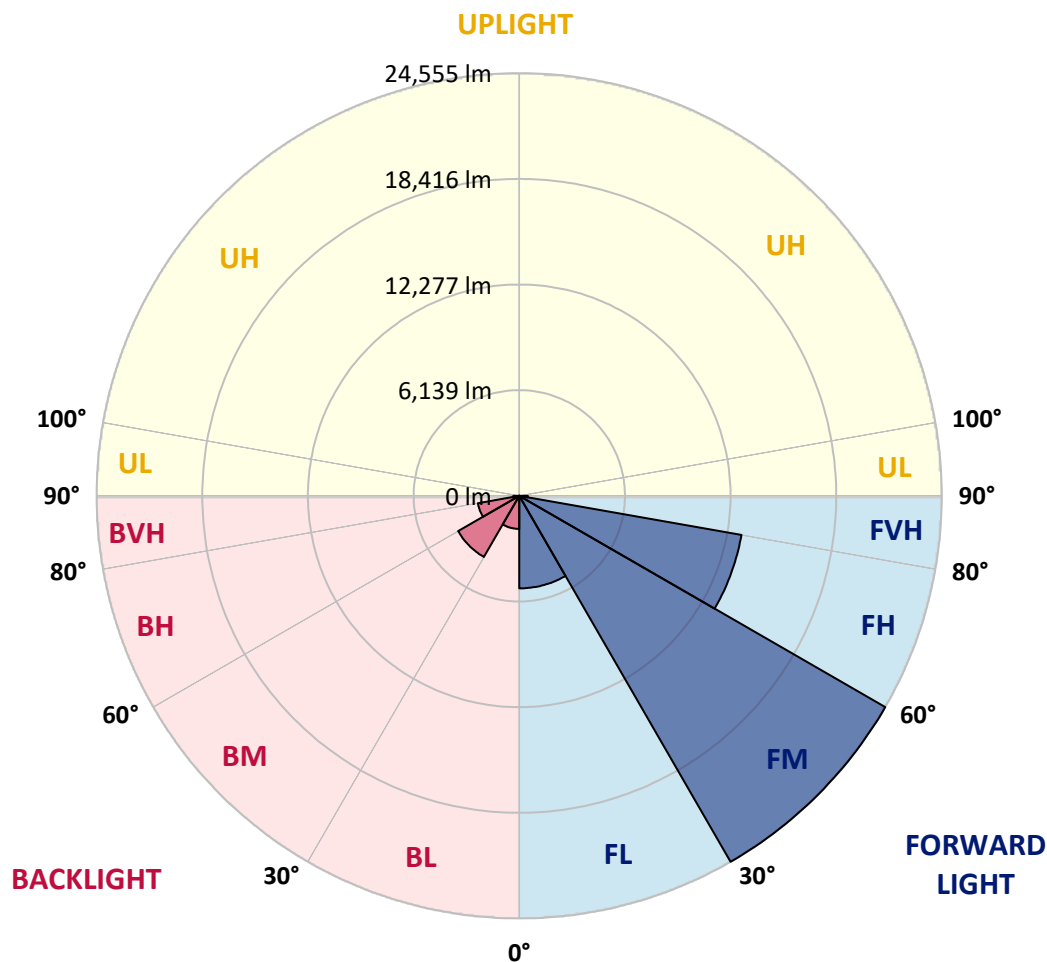
CATALOG NUMBER: GLEON-SA9C-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5376.0	10.3			
FM	(30°-60°)	24554.8	46.9			
FH	(60°-80°)	13110.9	25.0			G5
FVH	(80°-90°)	497.9	1.0			G3/500
BL	(0°-30°)	1921.1	3.7	B3/2500		
BM	(30°-60°)	4101.7	7.8	B3/5000		
BH	(60°-80°)	2440.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	345.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6
2.5°	6346.2	6250.3	6241.4	6101.0	6069.0	5800.6	5603.4	5397.2	5162.6	5116.4	4931.6
5°	8151.8	8142.9	8020.3	7791.1	7611.6	7153.1	6699.9	6220.1	5694.0	5608.7	5192.9
7.5°	9776.1	9761.9	9667.7	9420.7	9161.2	8597.9	7951.0	7215.3	6362.2	6236.0	5546.5
10°	11009.5	11004.2	10972.2	10790.9	10570.5	10030.3	9315.9	8311.8	7138.8	6966.5	5989.0
12.5°	11962.0	11972.7	11994.0	11930.1	11825.2	11364.9	10632.7	9474.0	7967.0	7796.4	6481.3
15°	12607.2	12639.1	12749.3	12840.0	12895.1	12612.5	11903.4	10662.9	8894.7	8690.3	7026.9
17.5°	12932.4	12967.9	13158.1	13431.8	13684.1	13655.7	13092.3	11796.8	9785.0	9587.8	7613.3
20°	13213.2	13239.8	13453.1	13781.9	14227.9	14425.2	14108.9	12887.9	10760.7	10526.1	8235.3
22.5°	14027.1	14060.9	14124.8	14311.4	14706.0	15068.5	14915.7	13920.5	11654.6	11436.0	8825.4
25°	15598.1	15639.0	15500.4	15342.2	15416.8	15669.2	15697.6	14862.4	12560.9	12313.9	9459.8
27.5°	17490.8	17549.4	17313.1	16906.1	16550.7	16452.9	16419.2	15633.7	13426.4	13140.3	10087.1
30°	19344.4	19445.7	19138.2	18610.4	17958.2	17499.7	17160.2	16388.9	14279.5	14005.8	10678.9
32.5°	21155.3	21114.4	20668.3	20153.0	19388.8	18814.8	17993.7	17199.3	15239.1	14924.6	11267.2
35°	22395.7	22410.0	21995.9	21384.5	20655.9	20215.2	19109.8	18073.7	16218.3	15928.7	11935.4
37.5°	23451.4	23385.6	22916.4	22346.0	21718.6	21530.3	20416.0	19036.9	17279.3	16963.0	12646.3
40°	23803.2	23726.8	23419.4	23008.9	22505.9	22489.9	21857.3	20128.1	18478.9	18166.1	13447.7
42.5°	23590.0	23492.2	23366.1	23254.1	23099.5	23170.6	23211.5	21407.6	19797.5	19447.4	14375.4
45°	22802.7	22655.2	22744.1	22987.5	23323.4	23725.0	24434.1	22824.0	21274.3	20981.1	15464.8
47.5°	21592.5	21459.2	21736.4	22257.1	23170.6	24187.1	25591.1	24387.9	23037.3	22745.8	17016.3
50°	19889.9	19929.0	20325.3	21272.6	22653.4	24400.4	27016.3	26458.3	25600.0	25328.0	19132.9
52.5°	17096.3	17103.4	18219.4	19774.4	21736.4	24290.2	27807.2	29104.5	29099.2	28770.4	21148.2
55°	14501.6	14659.8	15543.0	17609.9	20250.7	23849.5	28359.9	30391.2	31397.0	31011.4	23026.6
57.5°	11967.4	12059.8	12896.8	14972.6	18130.6	22674.7	28926.8	31935.5	34045.0	33801.5	25361.8
60°	9084.8	9227.0	10092.5	12010.0	15418.6	20590.1	28980.1	33547.4	37210.1	36964.9	27968.9
62.5°	5896.6	6141.9	6952.2	8748.9	12138.0	17592.1	27743.2	34601.3	40210.0	40122.9	30282.8
65°	3389.0	3573.9	4137.2	5523.4	8374.0	13828.1	24802.0	34196.1	42056.4	42006.7	31148.2
66°	2768.8	2884.3	3316.2	4316.7	6909.6	12143.3	23092.4	33341.2	42239.5	42241.3	31048.7
67.5°	2214.3	2265.9	2459.6	3090.5	5098.7	9625.1	20037.4	31455.7	42012.0	42074.2	30407.2
70°	1832.2	1858.9	1919.3	2072.2	2783.0	5804.2	14222.6	26556.1	39728.4	39776.3	27903.1
72.5°	1643.9	1659.9	1683.0	1704.3	1963.8	3243.3	8686.7	21244.1	34832.3	34894.5	24087.6
75°	1489.3	1498.1	1494.6	1496.4	1647.4	2066.8	4489.1	15861.1	28164.4	28040.0	18452.2
77.5°	1308.0	1316.9	1299.1	1302.7	1457.3	1588.8	2233.9	11103.7	19006.7	18128.8	10396.4
80°	1105.4	1112.5	1105.4	1117.8	1268.9	1199.6	1299.1	6246.7	8404.2	7949.2	3696.5
82.5°	835.3	865.5	886.8	936.6	1045.0	853.0	869.0	2432.9	2559.1	2436.5	1133.8
85°	366.1	446.1	668.2	716.2	785.5	511.8	570.5	991.7	1041.4	1009.4	412.3
87.5°	96.0	104.9	330.6	415.9	435.4	231.0	296.8	451.4	476.3	451.4	136.8
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°	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6
2.5°	4833.9	4746.8	4590.4	4451.8	4346.9	4275.8	4204.8	4169.2	4147.9	4126.6	4130.1
5°	4988.5	4812.5	4544.2	4354.0	4247.4	4179.9	4144.3	4130.1	4121.2	4099.9	4099.9
7.5°	5221.3	4972.5	4602.8	4407.4	4323.8	4272.3	4251.0	4243.9	4233.2	4208.3	4211.9
10°	5514.5	5166.2	4725.5	4535.3	4458.9	4402.0	4371.8	4361.1	4341.6	4313.2	4316.7
12.5°	5859.3	5406.1	4887.2	4688.1	4595.7	4519.3	4469.6	4439.3	4405.6	4368.3	4370.0
15°	6236.0	5667.4	5061.3	4825.0	4698.8	4592.2	4512.2	4460.7	4407.4	4361.1	4359.4
17.5°	6618.1	5919.7	5194.6	4899.6	4729.0	4588.6	4480.2	4400.2	4334.5	4277.6	4272.3
20°	7030.4	6147.2	5269.3	4892.5	4672.1	4505.1	4361.1	4261.6	4188.8	4131.9	4123.0
22.5°	7449.8	6360.4	5281.7	4819.7	4546.0	4341.6	4190.5	4080.4	4005.7	3947.1	3925.7
25°	7833.7	6525.7	5230.2	4679.3	4370.0	4149.7	4002.2	3890.2	3829.8	3760.5	3739.1
27.5°	8183.8	6641.2	5127.1	4499.8	4172.8	3956.0	3817.3	3721.4	3655.6	3602.3	3584.5
30°	8498.4	6703.4	4958.3	4286.5	3970.2	3772.9	3655.6	3589.9	3533.0	3465.5	3453.0
32.5°	8796.9	6703.4	4741.5	4053.7	3769.4	3611.2	3541.9	3501.0	3437.0	3371.3	3353.5
35°	9095.5	6662.6	4485.5	3810.2	3584.5	3495.7	3492.1	3444.1	3346.4	3257.5	3234.4
37.5°	9410.0	6579.0	4197.6	3582.7	3433.5	3444.1	3474.3	3367.7	3229.1	3102.9	3069.2
40°	9765.5	6463.5	3899.1	3385.5	3307.3	3421.0	3426.4	3257.5	2987.4	2871.9	2841.7
42.5°	10183.1	6348.0	3621.8	3211.3	3207.8	3351.7	3335.7	3019.4	2857.7	2799.0	2783.0
45°	10732.3	6282.3	3358.8	3046.0	3129.6	3239.8	3181.1	2887.9	2820.3	2786.6	2772.4
47.5°	11597.7	6316.0	3117.1	2914.5	3051.4	3127.8	2893.2	2834.6	2786.6	2745.7	2731.5
50°	12681.8	6296.5	2921.6	2823.9	2962.5	3010.5	2763.5	2765.3	2740.4	2694.2	2672.8
52.5°	13497.5	6143.6	2795.5	2772.4	2884.3	2802.6	2681.7	2697.7	2685.3	2617.8	2594.6
55°	14284.8	6012.1	2731.5	2752.8	2827.5	2543.1	2585.8	2624.9	2612.4	2546.7	2536.0
57.5°	15264.0	5987.2	2692.4	2758.1	2779.5	2413.4	2493.4	2544.9	2536.0	2507.6	2502.2
60°	16463.6	5994.4	2656.9	2767.0	2726.2	2317.4	2406.3	2472.0	2477.4	2472.0	2468.5
62.5°	17122.9	5800.6	2568.0	2742.2	2632.0	2233.9	2315.6	2411.6	2413.4	2424.0	2422.3
65°	16563.1	5221.3	2402.7	2655.1	2473.8	2164.6	2237.4	2342.3	2315.6	2363.6	2363.6
66°	16019.3	4887.2	2321.0	2598.2	2406.3	2137.9	2212.6	2306.8	2273.0	2338.7	2338.7
67.5°	14908.6	4323.8	2173.5	2477.4	2310.3	2100.6	2184.1	2248.1	2201.9	2299.6	2292.5
70°	12879.1	3344.6	1876.7	2203.7	2152.1	2045.5	2145.0	2130.8	2063.3	2212.6	2184.1
72.5°	10858.4	2541.3	1507.0	1844.7	1912.2	1976.2	2089.9	1981.5	1896.2	2001.1	1938.9
75°	8425.5	1910.4	1190.7	1434.2	1615.4	1867.8	2024.2	1809.1	1686.5	1675.9	1642.1
77.5°	4554.9	1311.5	943.7	1094.7	1283.1	1732.7	1979.8	1624.3	1439.5	1396.8	1370.2
80°	1803.8	853.0	686.0	829.9	897.5	1537.2	1873.1	1409.3	1187.1	1144.5	1103.6
82.5°	744.6	504.7	442.5	556.3	584.7	1315.1	1681.2	1155.2	917.0	1268.9	1347.1
85°	319.9	277.2	263.0	287.9	330.6	922.3	1338.2	881.5	989.9	883.2	702.0
87.5°	96.0	117.3	112.0	110.2	120.8	220.4	712.6	490.5	726.9	275.5	206.2
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



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Photopic Flux vs. Wavelength

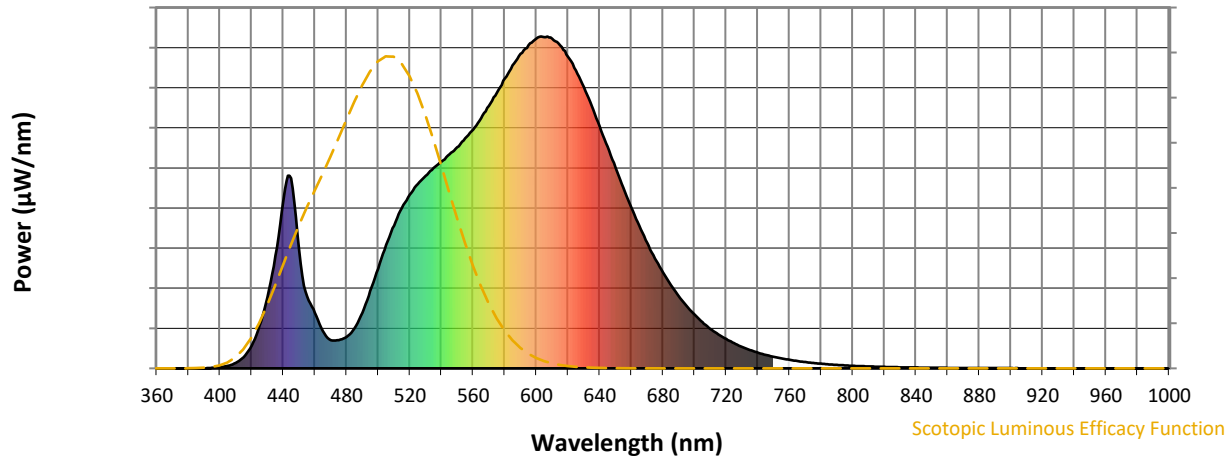


Photopic Lumens: NR

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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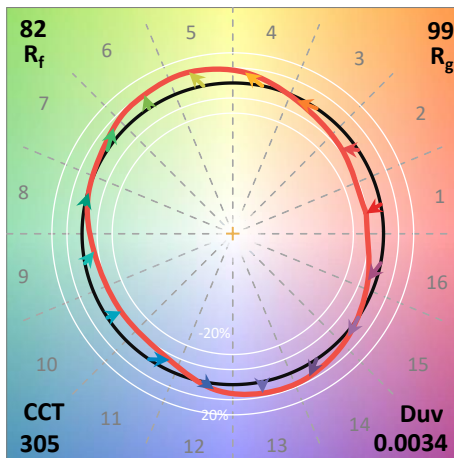
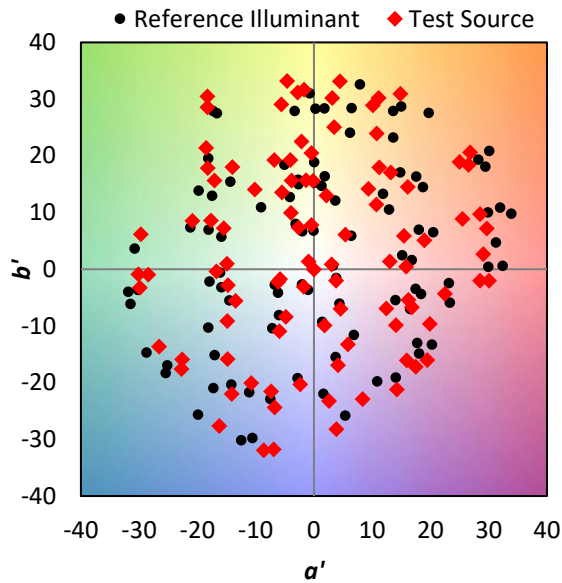
TM-30-18

Summary

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



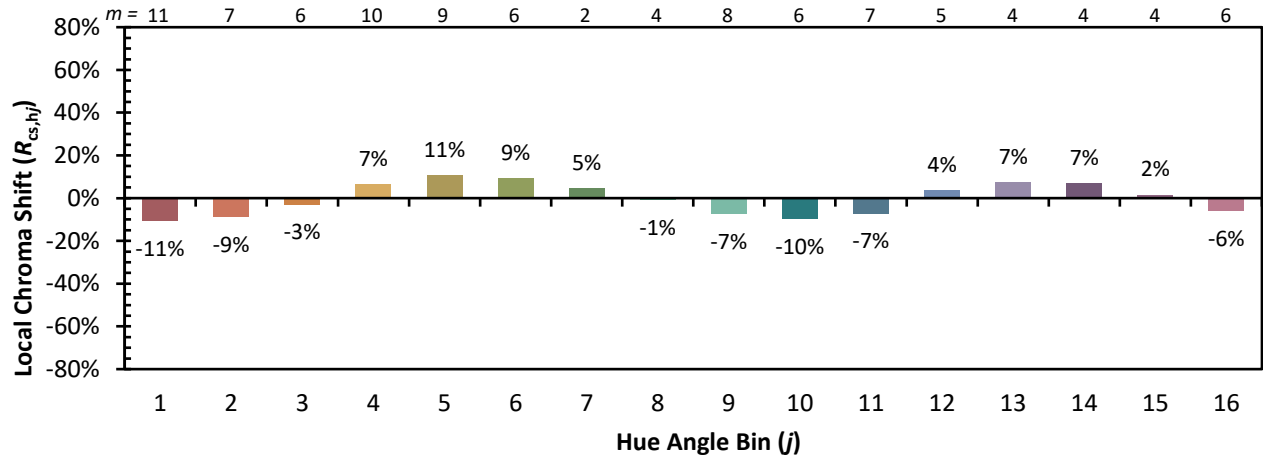
Color Vector Graphics



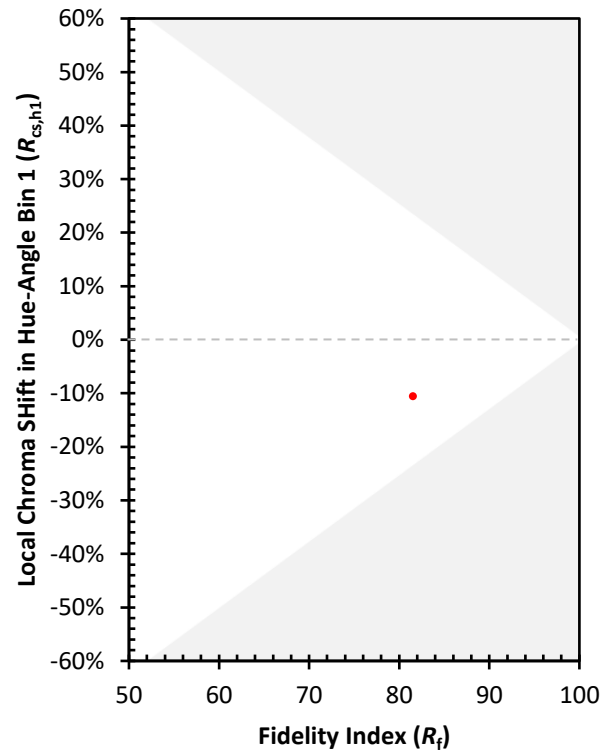
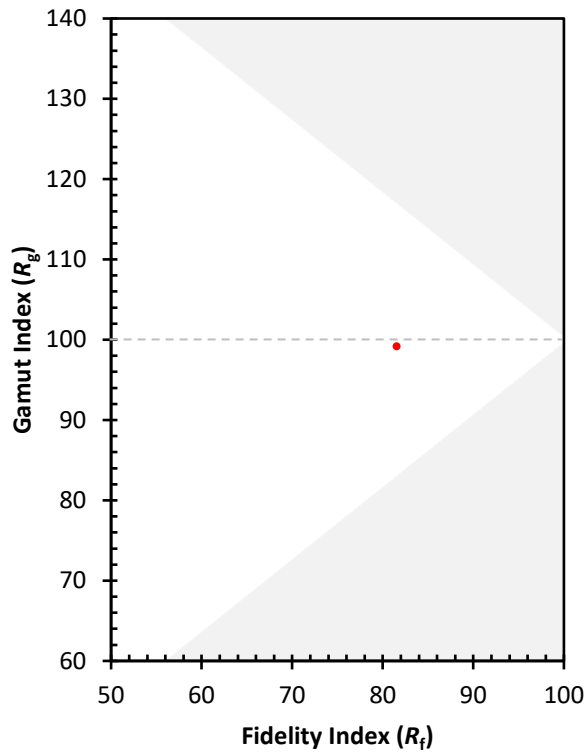
Individual Sample Fidelity Index ($R_{f,i}$)

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)