

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: P321760

Luminaire Tested: **GLEON-SA6B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321760
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-SA6B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 20889 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

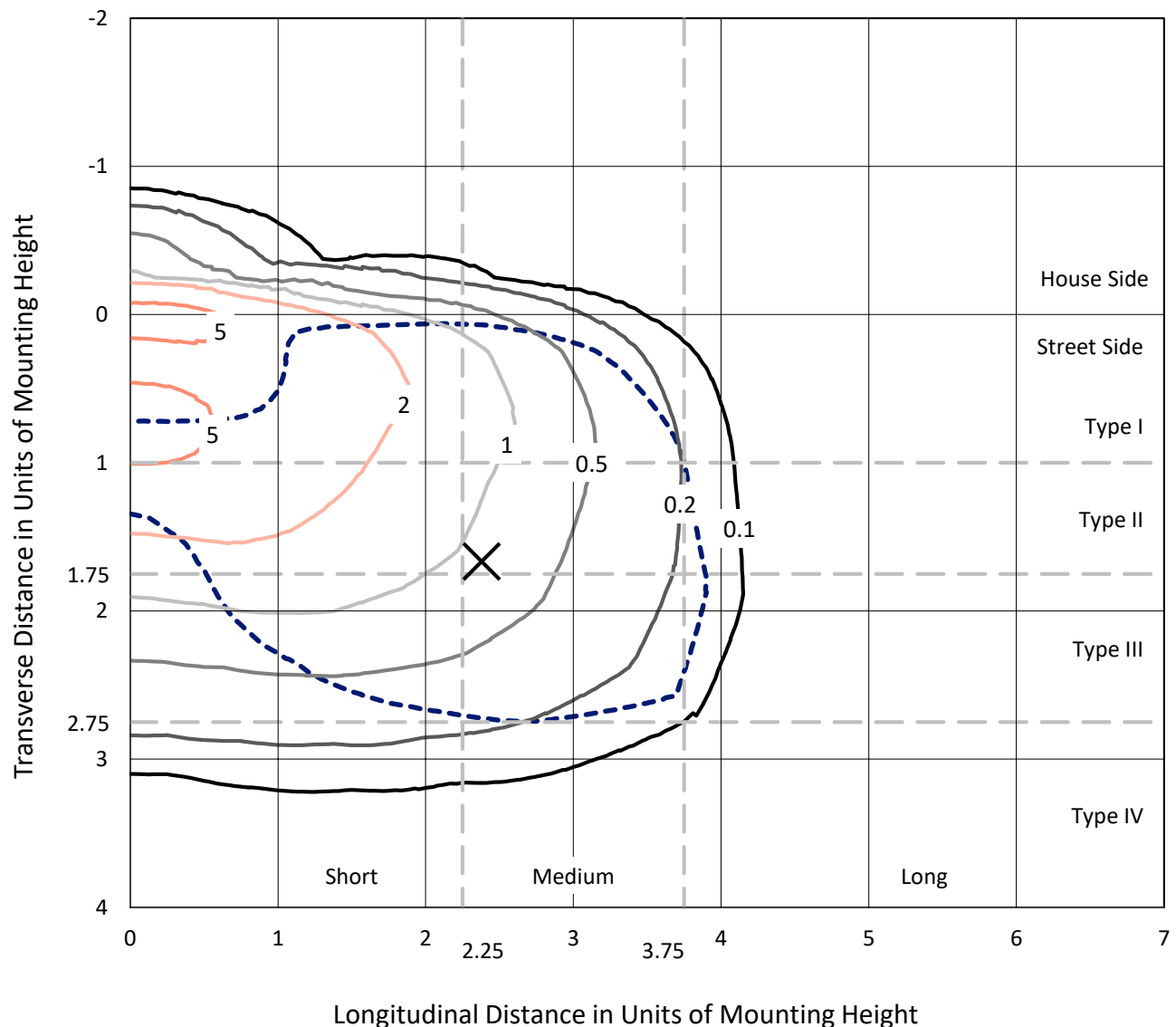
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

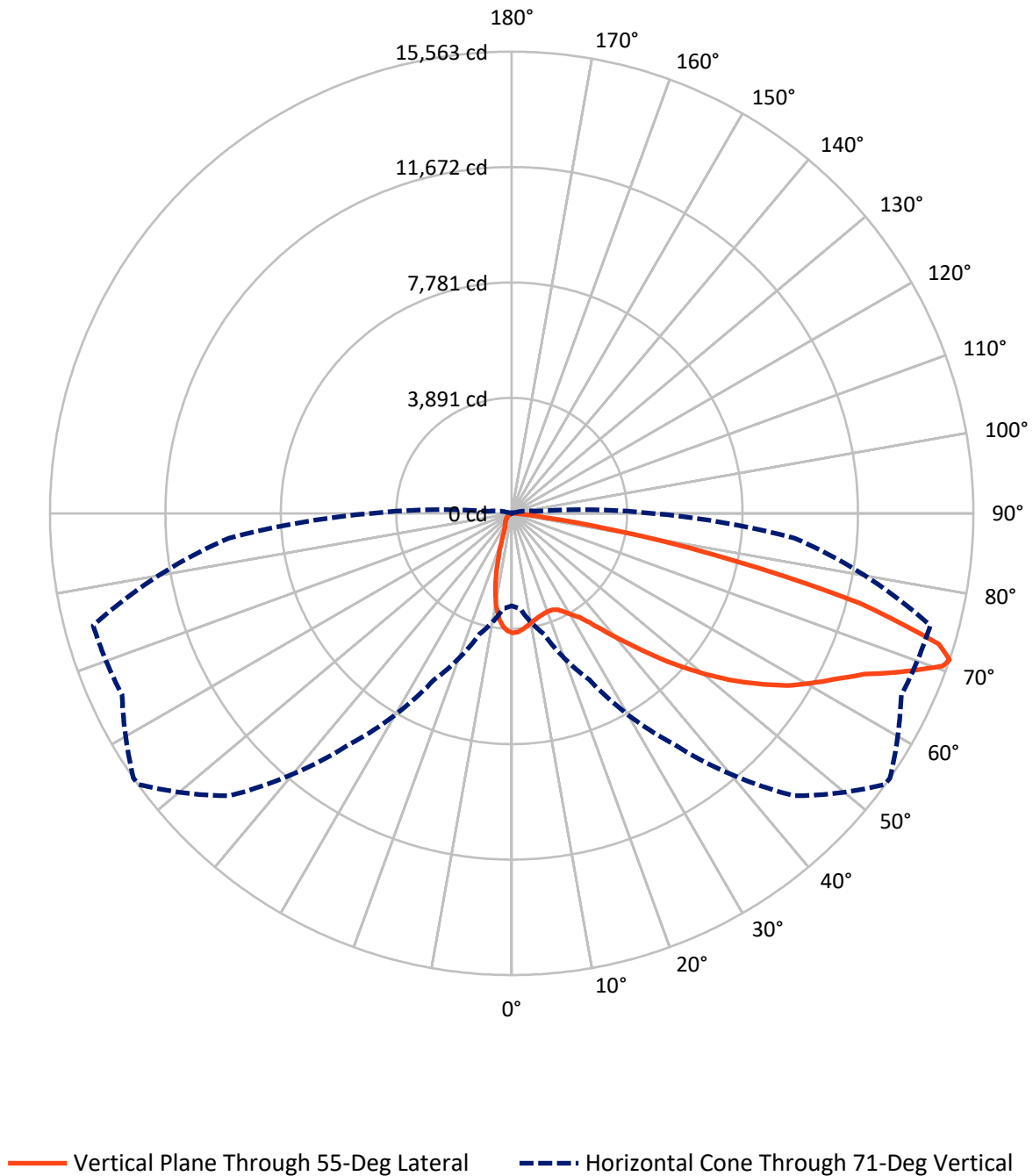
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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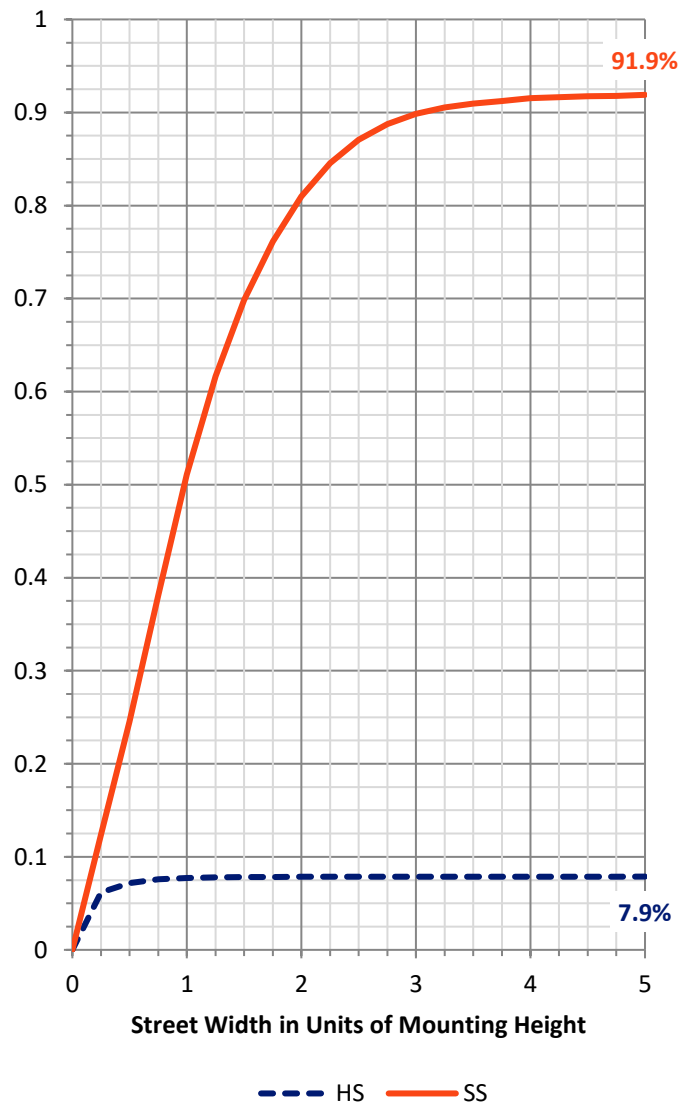
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.8	0.0	1653.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	19235.2	0.0	19235.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	20889.0	0.0	20889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	1.6
10°-20°	775.4	3.7
20°-30°	1246.2	6.0
30°-40°	2117.3	10.1
40°-50°	3286.3	15.7
50°-60°	4418.4	21.2
60°-70°	5405.1	25.9
70°-80°	3160.2	15.1
80°-90°	136.6	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°	20889.0	100.0
0°-180°	20889.0	100.0

Coefficient of Utilization



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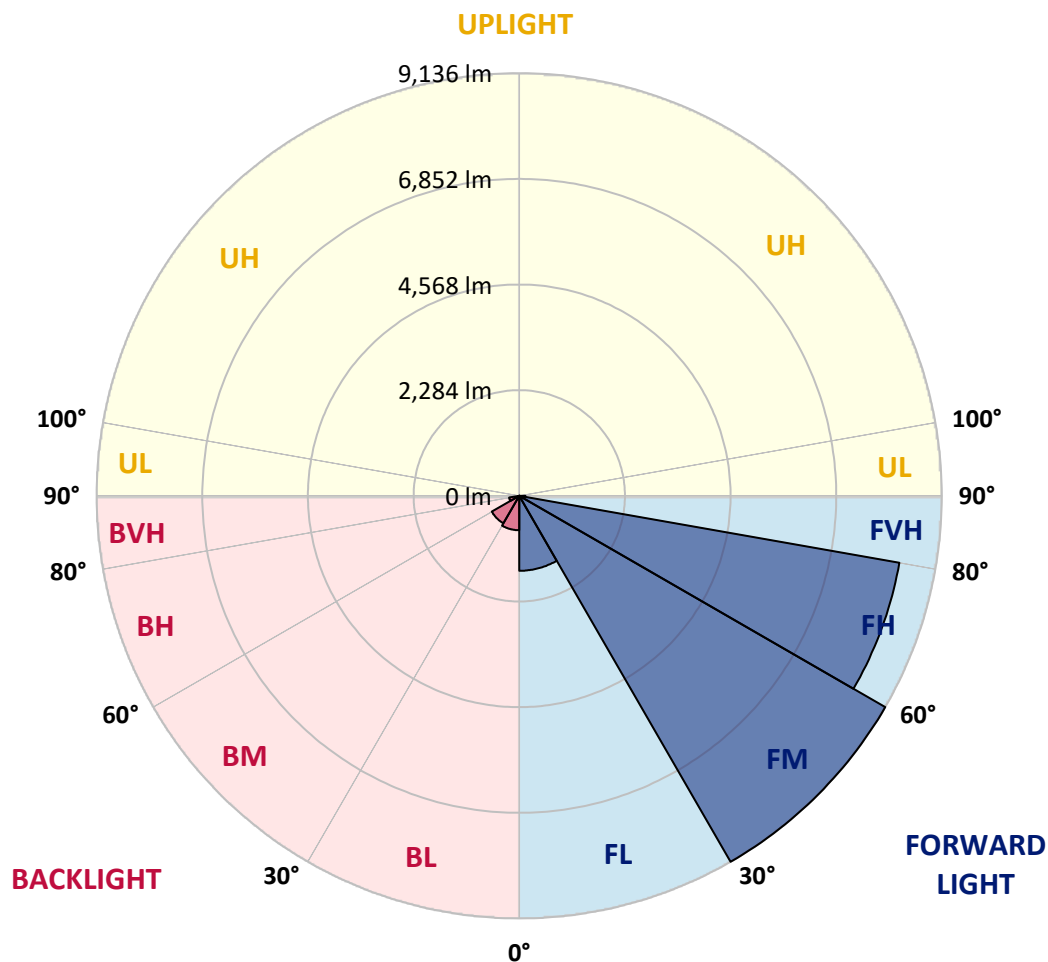
CATALOG NUMBER: GLEON-SA6B-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.7	7.8			
FM	(30°-60°)	9136.2	43.7			
FH	(60°-80°)	8343.8	39.9			G4/12000
FVH	(80°-90°)	134.5	0.6			G2/225
BL	(0°-30°)	744.4	3.6	B2/1000		
BM	(30°-60°)	685.7	3.3	B1/1000		
BH	(60°-80°)	221.6	1.1	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5
2.5°	3910.3	3915.0	3931.9	3939.4	3957.2	3987.2	4002.3	4003.2	4027.6	4037.0	4044.5
5°	3633.6	3661.8	3689.9	3719.9	3774.3	3846.6	3917.8	3924.4	4003.2	4061.3	4092.3
7.5°	3395.4	3420.7	3454.5	3502.3	3579.2	3692.7	3811.9	3825.9	3975.1	4107.3	4176.7
10°	3150.6	3171.2	3220.0	3290.3	3396.3	3548.3	3708.7	3732.1	3949.7	4169.2	4291.1
12.5°	2888.9	2901.1	2960.2	3061.5	3217.2	3410.4	3621.4	3652.4	3933.8	4240.5	4426.2
15°	2690.1	2695.7	2752.0	2857.0	3035.2	3286.6	3553.9	3591.4	3937.5	4325.9	4573.5
17.5°	2639.4	2642.2	2672.2	2744.5	2902.0	3175.9	3500.4	3546.4	3948.8	4409.3	4721.7
20°	2844.8	2825.1	2794.2	2782.9	2850.4	3109.3	3468.6	3520.1	3963.8	4483.4	4854.9
22.5°	3408.5	3350.4	3221.9	3050.2	2946.1	3114.0	3477.0	3528.6	4011.6	4574.4	5008.7
25°	4245.2	4164.5	3946.0	3608.3	3283.8	3249.1	3547.3	3599.9	4104.5	4683.2	5155.9
27.5°	5197.2	5117.5	4850.2	4368.1	3814.7	3516.4	3708.7	3757.4	4242.4	4779.8	5268.5
30°	6108.9	6086.4	5771.2	5223.5	4482.5	3949.7	3916.9	3958.2	4344.6	4838.0	5357.6
32.5°	6881.8	6846.1	6592.9	6060.1	5246.9	4470.3	4161.7	4173.9	4421.5	4913.0	5473.9
35°	7598.4	7554.3	7332.0	6828.3	6031.1	5106.2	4538.8	4520.9	4589.4	5064.0	5642.7
37.5°	8224.0	8264.3	8017.6	7538.3	6734.5	5767.5	5047.1	4993.7	4852.0	5309.8	5887.5
40°	8747.4	8747.4	8618.9	8219.3	7494.3	6451.3	5622.1	5551.8	5246.9	5688.7	6198.0
42.5°	8935.9	8976.2	9024.1	8798.0	8174.3	7162.2	6262.7	6189.6	5803.1	6226.1	6590.1
45°	8947.2	9010.9	9255.7	9254.8	8788.6	7868.5	6985.0	6950.2	6516.0	6916.5	7075.9
47.5°	8788.6	8868.4	9271.7	9500.6	9275.4	8526.0	7774.7	7731.6	7353.6	7762.5	7584.3
50°	8543.8	8632.0	9101.0	9597.2	9606.5	9098.2	8606.7	8542.0	8275.6	8729.6	8109.6
52.5°	8105.8	8276.5	8948.1	9619.7	9824.1	9592.5	9398.3	9370.2	9307.3	9660.9	8527.9
55°	7168.8	7358.3	8564.5	9627.2	10025.8	10030.5	10140.2	10147.7	10274.4	10531.4	8839.3
57.5°	6726.1	6833.0	7894.8	9662.8	10325.0	10527.6	10896.2	10954.4	11150.4	11357.7	9194.8
60°	6447.5	6574.1	7564.6	9614.0	10794.9	11179.5	11596.9	11616.6	11826.7	12210.3	9675.9
62.5°	6225.2	6350.0	7356.4	9426.5	11323.0	11963.6	12281.6	12283.5	12441.0	13226.1	10222.8
65°	5676.5	5781.6	6935.2	9215.4	11671.9	12739.3	13077.0	13064.8	13193.3	14297.3	10857.8
67.5°	4883.0	4963.7	6075.1	8415.3	11540.6	13444.7	14277.6	14237.2	14081.5	15223.0	11107.3
70°	3775.3	3804.3	4788.3	7013.1	10310.0	13715.7	15437.8	15417.2	14626.5	15057.0	10192.8
71°	3120.6	3216.2	4219.9	6189.6	9485.5	13465.3	15550.4	15562.6	14489.5	14604.9	9563.4
72.5°	1812.1	1893.7	3058.7	4753.6	8053.3	12420.4	14967.0	15055.1	13849.8	13284.3	8168.7
75°	388.3	415.5	1134.0	2300.8	4430.0	8705.2	11813.5	12127.8	11288.3	9037.2	4923.3
77.5°	270.1	291.7	485.9	1043.9	1464.1	4301.5	7338.6	7693.1	6743.9	3396.3	1575.8
80°	213.9	238.2	378.9	515.9	395.8	1387.2	3437.6	3654.3	2249.2	757.9	265.4
82.5°	119.1	141.6	295.5	278.6	151.9	263.6	962.3	1088.0	450.2	152.9	62.8
85°	34.7	42.2	190.4	202.6	64.7	50.6	164.1	203.5	85.4	40.3	28.1
87.5°	0.0	0.0	91.9	77.9	18.8	7.5	15.0	16.9	16.9	16.9	18.8
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°	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5	4028.5
2.5°	4044.5	4051.0	4027.6	3996.6	3963.8	3923.5	3881.3	3848.4	3847.5	3831.5	3815.6
5°	4094.2	4090.4	4025.7	3927.2	3810.9	3689.9	3574.5	3444.2	3401.0	3347.6	3329.7
7.5°	4186.1	4159.8	4022.9	3807.2	3552.0	3298.8	3037.1	2773.5	2661.0	2559.7	2541.9
10°	4301.5	4251.8	4005.1	3627.1	3159.0	2691.9	2297.1	1938.8	1781.2	1660.2	1654.6
12.5°	4421.5	4345.5	3955.4	3355.1	2644.1	1987.5	1532.6	1179.9	1048.6	964.2	971.7
15°	4547.2	4433.7	3848.4	2988.3	2057.9	1348.8	941.7	734.4	681.9	660.3	665.9
17.5°	4675.7	4494.7	3699.3	2546.5	1479.2	870.4	651.9	593.7	593.7	598.4	600.3
20°	4787.3	4527.5	3479.8	2051.3	1002.7	634.1	570.3	561.8	566.5	574.0	575.0
22.5°	4898.0	4529.4	3193.7	1549.5	701.6	555.3	543.1	539.3	542.1	550.6	551.5
25°	4988.0	4506.9	2835.4	1102.1	560.0	523.4	517.8	515.9	517.8	528.1	528.1
27.5°	5024.6	4425.3	2398.4	774.8	501.8	487.7	485.9	487.7	490.6	498.1	499.0
30°	5028.4	4282.7	1921.9	560.9	454.9	439.9	443.7	450.2	447.4	445.5	447.4
32.5°	5037.8	4117.6	1457.6	461.5	415.5	392.1	387.4	387.4	376.1	369.6	365.8
35°	5068.7	3923.5	1057.1	414.6	375.2	348.0	330.2	309.5	288.0	276.7	273.9
37.5°	5117.5	3719.9	756.9	383.6	339.5	308.6	274.8	238.2	207.3	198.8	198.8
40°	5206.6	3509.8	560.0	359.2	311.4	272.9	222.3	174.5	146.3	141.6	141.6
42.5°	5347.3	3288.5	446.5	337.7	287.0	236.4	169.8	126.6	106.0	103.2	102.2
45°	5493.6	3044.6	390.2	317.0	260.8	194.2	125.7	93.8	81.6	78.8	78.8
47.5°	5639.9	2784.8	363.0	297.3	235.4	151.0	93.8	74.1	68.5	68.5	69.4
50°	5763.7	2513.7	343.3	275.8	202.6	114.4	74.1	62.8	61.0	64.7	65.7
52.5°	5794.7	2247.3	318.9	248.6	162.3	87.2	61.0	55.3	55.3	55.3	55.3
55°	5775.9	2041.0	287.0	214.8	120.1	69.4	52.5	48.8	47.8	47.8	47.8
57.5°	5839.7	1919.1	229.8	167.0	86.3	56.3	46.0	43.1	41.3	40.3	40.3
60°	5968.2	1839.3	164.1	120.1	64.7	46.9	39.4	36.6	33.8	31.9	31.9
62.5°	6138.9	1769.9	121.9	89.1	49.7	37.5	32.8	30.0	26.3	24.4	24.4
65°	6270.2	1646.1	92.9	66.6	37.5	30.0	25.3	24.4	18.8	16.9	15.9
67.5°	6069.5	1374.1	75.0	48.8	28.1	23.4	19.7	18.8	11.3	9.4	9.4
70°	5205.7	956.7	60.0	35.6	20.6	18.8	15.9	12.2	8.4	7.5	7.5
71°	4720.7	799.1	54.4	30.0	17.8	17.8	15.0	10.3	7.5	6.6	6.6
72.5°	3921.6	567.5	46.0	23.4	15.9	18.8	15.9	9.4	7.5	6.6	5.6
75°	2276.4	237.3	31.9	15.9	12.2	22.5	20.6	8.4	5.6	4.7	4.7
77.5°	684.7	87.2	17.8	10.3	9.4	19.7	23.4	7.5	2.8	0.9	0.9
80°	124.7	37.5	11.3	6.6	6.6	12.2	17.8	3.8	0.0	0.0	0.0
82.5°	44.1	18.8	6.6	3.8	2.8	5.6	8.4	0.0	0.0	0.0	0.0
85°	25.3	13.1	3.8	1.9	0.0	0.9	1.9	0.0	0.0	0.0	0.0
87.5°	16.9	3.8	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

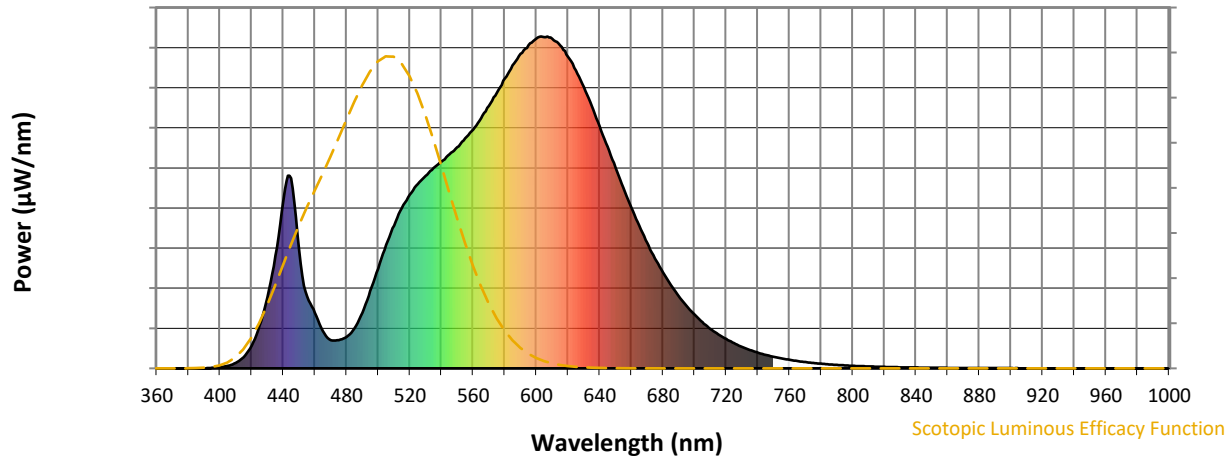


Photopic Lumens: NR

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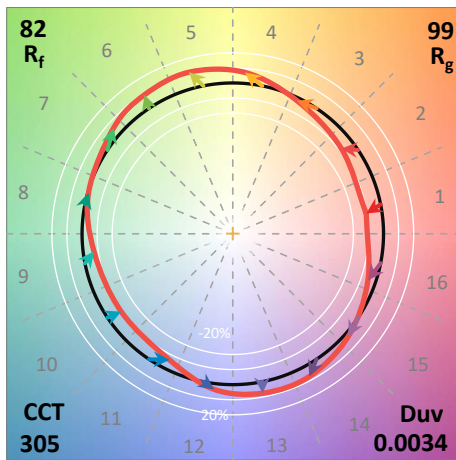
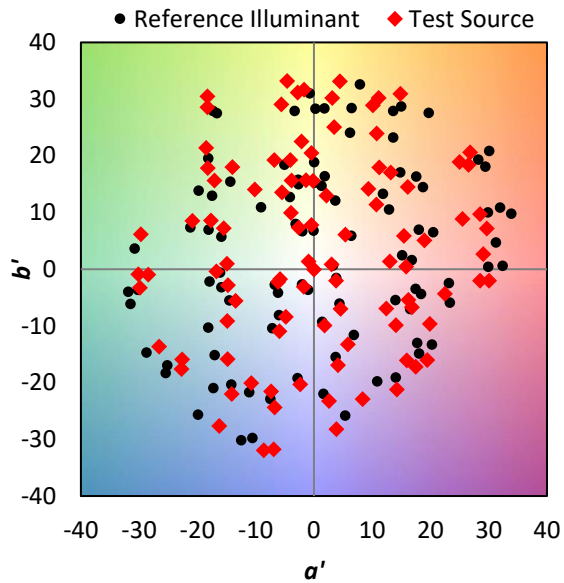
TM-30-18

Summary

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



Color Vector Graphics

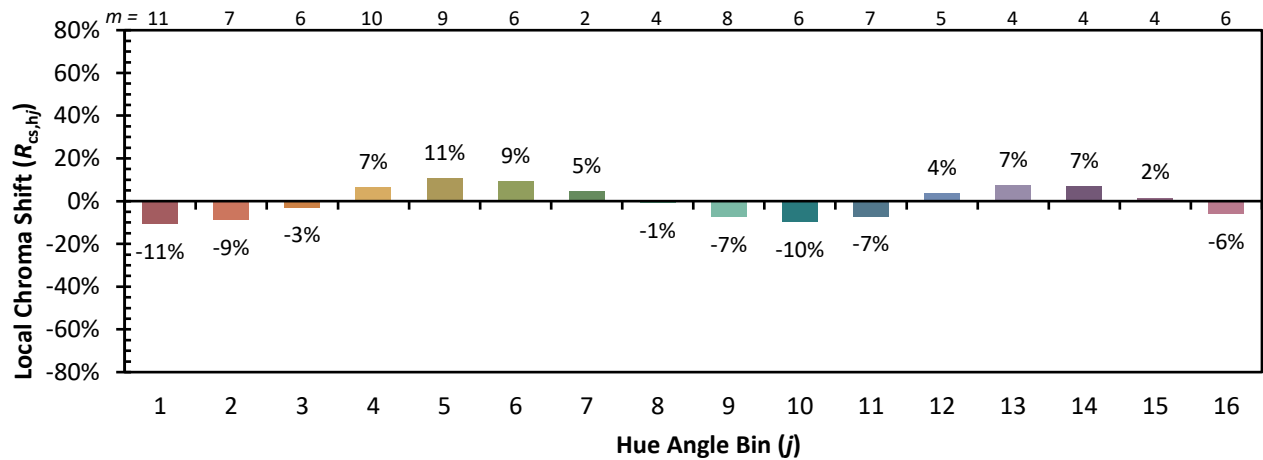


Individual Sample Fidelity Index ($R_{f,i}$)

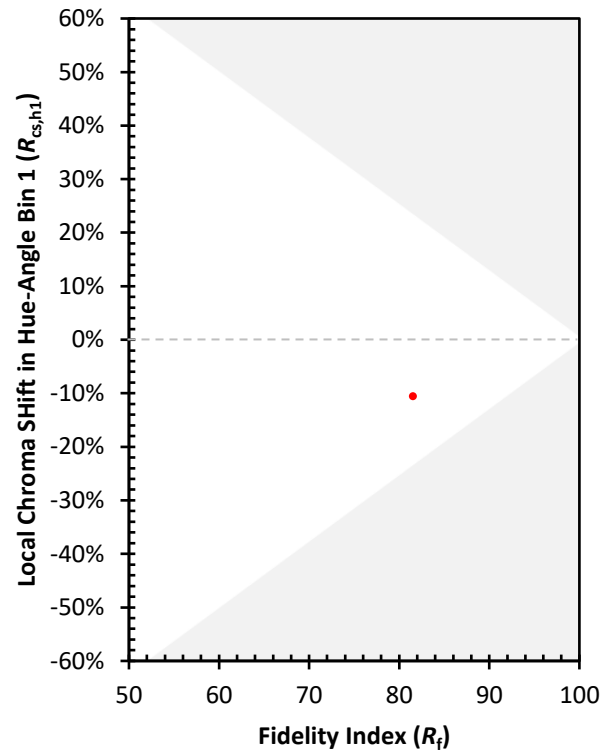
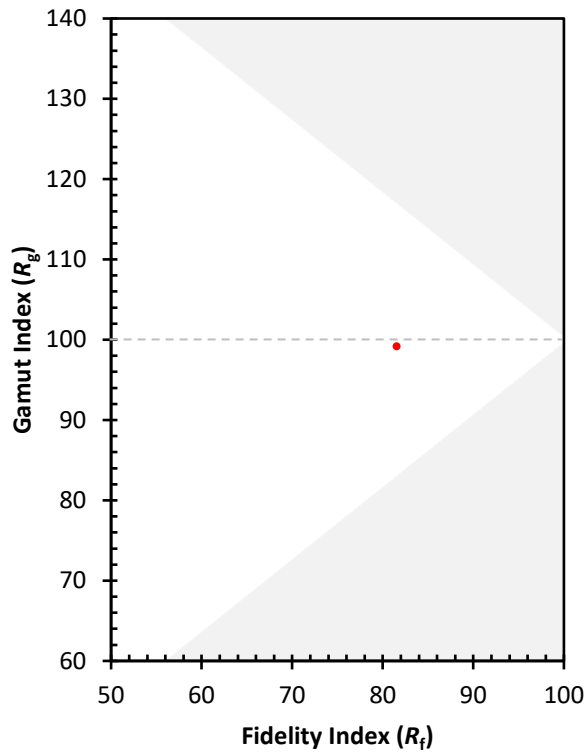
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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