

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: P324000

Luminaire Tested: **GLEON-SA6B-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22044 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

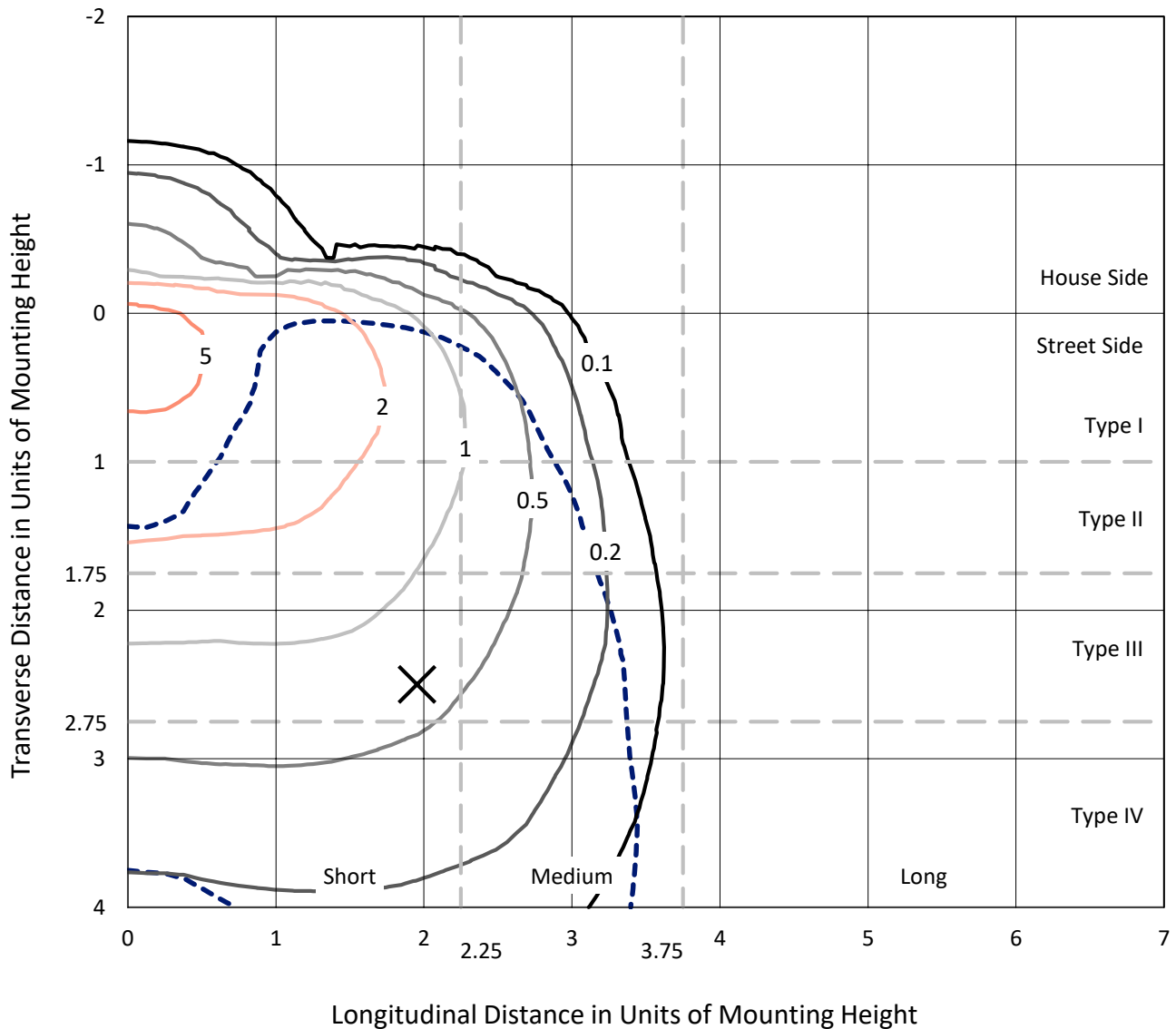
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

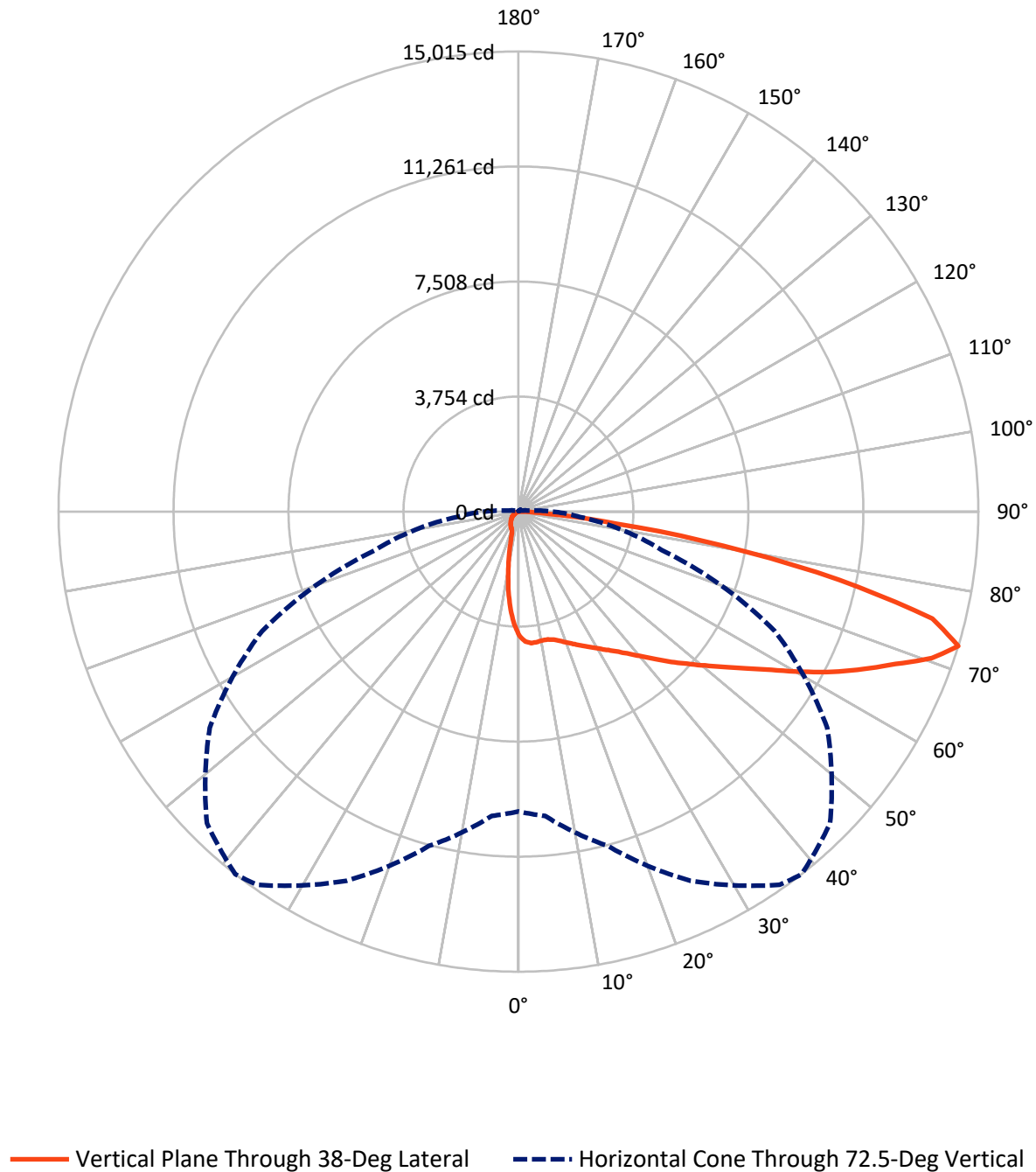
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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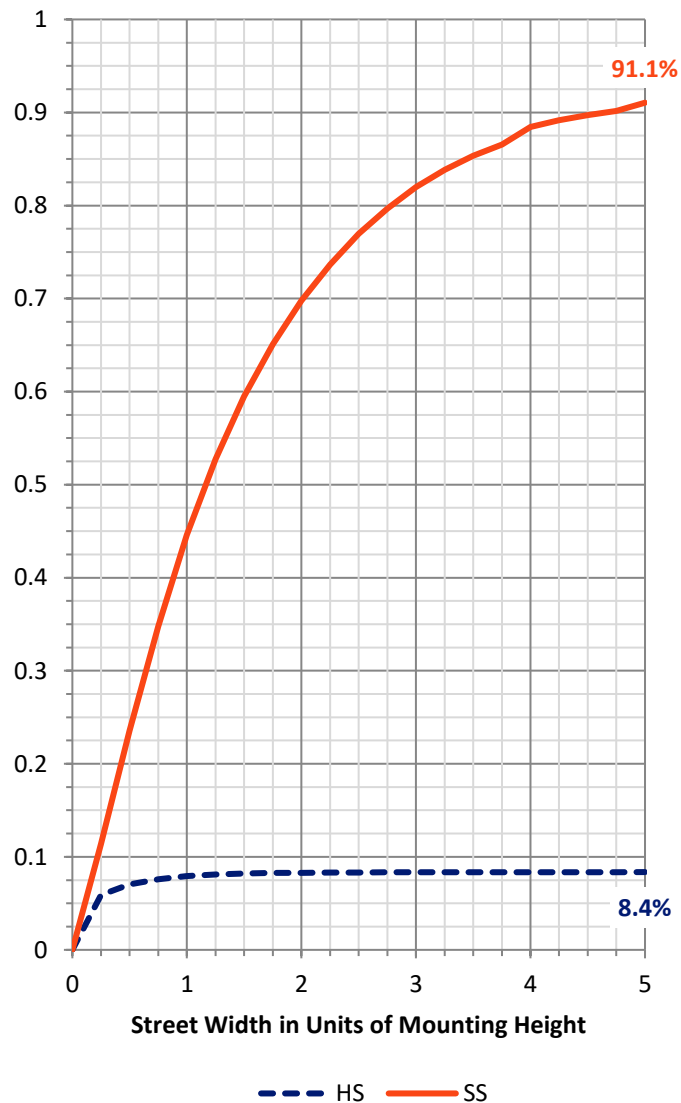
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1855.1	0.0	1855.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20188.9	0.0	20188.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	22044.0	0.0	22044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.6
10°-20°	844.7	3.8
20°-30°	1343.5	6.1
30°-40°	2019.9	9.2
40°-50°	3081.4	14.0
50°-60°	4355.1	19.8
60°-70°	5462.8	24.8
70°-80°	4084.6	18.5
80°-90°	506.5	2.3
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°	22044.0	100.0
0°-180°	22044.0	100.0

Coefficient of Utilization



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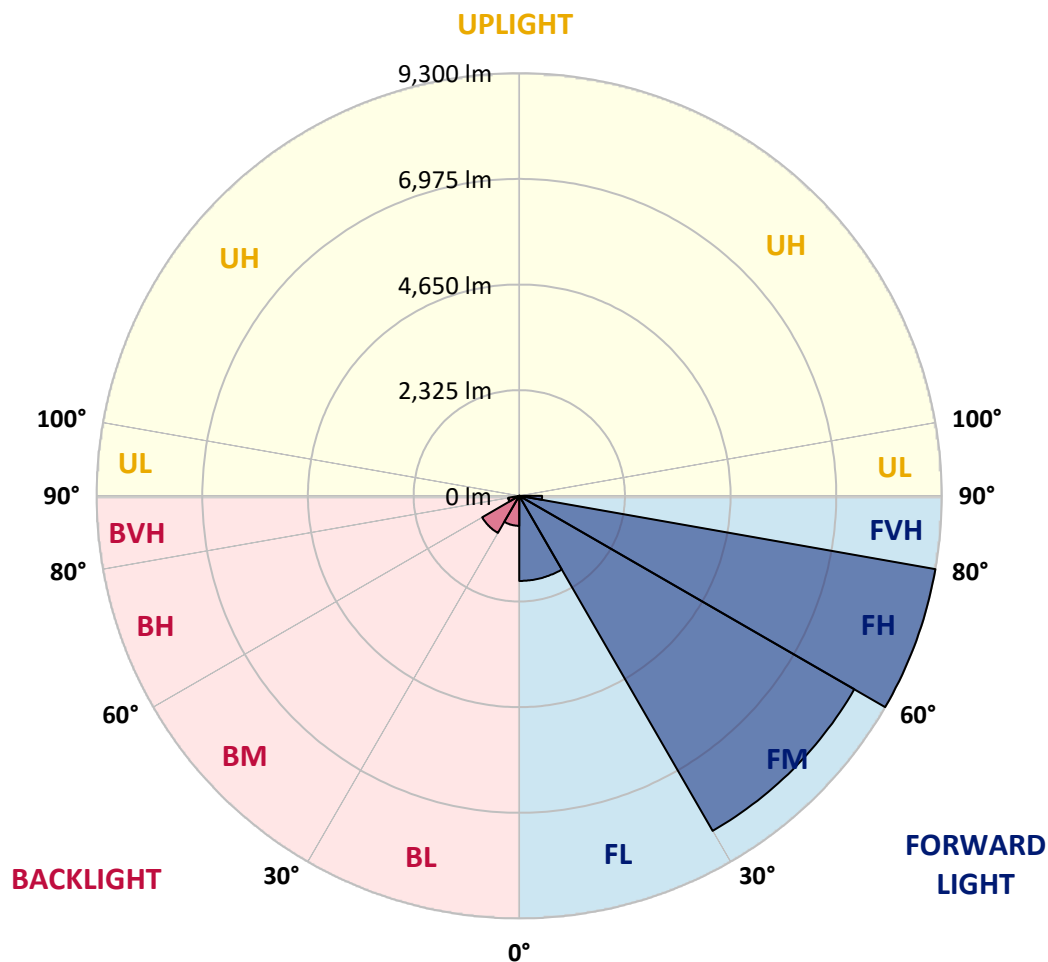
CATALOG NUMBER: GLEON-SA6B-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1873.2	8.5			
FM	(30°-60°)	8514.4	38.6			
FH	(60°-80°)	9299.6	42.2			G4/12000
FVH	(80°-90°)	501.7	2.3			G4/750
BL	(0°-30°)	660.5	3.0	B2/1000		
BM	(30°-60°)	942.0	4.3	B1/1000		
BH	(60°-80°)	247.8	1.1	B1/500		G1/500
BVH	(80°-90°)	4.7	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 IV Short



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CATALOG NUMBER: GLEON-SA6B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8
2.5°	4302.8	4303.7	4293.7	4277.2	4256.1	4245.2	4226.8	4197.6	4166.4	4110.6	4050.2
5°	4390.7	4390.7	4377.9	4355.9	4322.1	4312.0	4277.2	4230.5	4166.4	4075.8	3974.2
7.5°	4381.6	4383.4	4366.0	4343.1	4309.2	4300.1	4258.0	4205.8	4126.1	4016.3	3886.3
10°	4334.0	4338.5	4324.8	4313.8	4282.7	4272.6	4233.3	4181.1	4101.4	3984.2	3835.0
12.5°	4285.4	4290.0	4294.6	4304.7	4285.4	4281.8	4250.7	4206.7	4130.7	4009.0	3840.5
15°	4254.3	4263.5	4296.4	4335.8	4340.4	4336.7	4316.6	4275.4	4198.5	4072.1	3879.9
17.5°	4254.3	4269.0	4337.6	4412.7	4439.2	4442.0	4424.6	4366.9	4275.4	4139.9	3916.5
20°	4290.0	4310.2	4417.3	4523.5	4567.4	4567.4	4533.5	4453.0	4345.9	4201.2	3941.2
22.5°	4381.6	4408.1	4542.7	4665.4	4712.1	4702.0	4656.2	4539.0	4419.1	4270.8	3972.3
25°	4561.9	4582.1	4722.1	4845.7	4874.1	4851.2	4793.5	4643.4	4512.5	4365.1	4029.1
27.5°	4794.5	4797.2	4941.9	5046.2	5028.8	5013.3	4940.9	4774.3	4647.1	4499.7	4127.1
30°	5049.9	5049.9	5177.1	5256.8	5203.7	5190.9	5118.5	4932.7	4819.2	4682.8	4266.2
32.5°	5297.1	5308.0	5411.5	5461.9	5402.3	5389.5	5319.0	5133.2	5048.0	4962.0	4483.2
35°	5536.0	5544.2	5642.2	5669.7	5612.9	5616.6	5566.2	5408.8	5376.7	5365.7	4810.0
37.5°	5767.6	5769.5	5869.2	5886.6	5858.3	5889.4	5894.0	5754.8	5814.3	5903.1	5270.5
40°	5979.1	5980.9	6079.8	6124.7	6173.2	6213.5	6249.2	6175.0	6371.9	6577.8	5818.9
42.5°	6148.5	6167.7	6293.1	6378.3	6506.4	6583.3	6680.4	6676.7	7035.6	7345.0	6481.7
45°	6297.7	6330.7	6505.5	6654.7	6874.5	6997.1	7149.1	7268.1	7782.6	8199.2	7152.8
47.5°	6494.5	6525.7	6725.2	6969.7	7262.6	7423.8	7675.5	7932.8	8603.8	9037.8	7808.3
50°	6771.9	6758.2	6955.0	7305.7	7681.9	7893.4	8252.3	8637.7	9418.6	9768.3	8193.7
52.5°	7067.6	7062.1	7207.7	7670.9	8176.3	8423.5	8897.7	9366.4	10197.7	10271.9	8370.4
55°	7433.8	7394.5	7517.1	8087.5	8763.1	9028.6	9587.1	10087.9	10818.4	10555.7	8459.2
57.5°	7817.4	7752.4	7869.6	8551.7	9425.0	9739.1	10350.6	10791.0	11231.3	10749.8	8458.3
60°	8213.8	8136.9	8276.1	9132.1	10247.2	10610.6	11178.2	11266.1	11616.7	10847.7	8396.0
62.5°	8545.2	8499.5	8706.4	9752.8	11165.4	11522.4	11803.5	11698.2	11941.7	10923.7	8250.5
65°	8895.9	8898.6	9232.8	10476.9	12141.3	12382.1	12405.9	12258.5	12213.6	10908.1	7757.9
67.5°	9370.1	9414.1	9971.6	11460.2	13090.7	13276.5	13274.7	12865.5	12412.3	10289.3	6665.7
70°	9871.8	9975.3	10823.0	12585.3	14127.0	14315.6	14218.6	13251.8	11687.2	8320.0	4717.6
72.5°	9787.6	9967.0	11296.3	13294.8	14871.3	15015.1	14384.3	12302.4	9237.4	4835.7	2008.6
75°	7551.0	7758.8	10357.9	12591.7	14090.4	13961.3	12359.2	9573.3	5048.0	1349.4	452.3
77.5°	3988.8	4099.6	6842.4	9592.6	10986.9	10716.8	8706.4	5310.8	1538.9	334.2	203.2
80°	2089.2	2114.8	2981.8	5442.6	6781.1	6782.9	5159.7	2332.7	634.4	171.2	136.4
82.5°	1118.7	1140.7	1575.6	2514.9	3553.0	3220.7	1975.6	1283.5	368.9	97.0	130.9
85°	269.2	273.7	893.5	1148.9	1397.0	997.9	586.8	1077.5	99.8	56.8	106.2
87.5°	103.5	105.3	331.4	497.1	356.1	230.7	274.6	401.9	12.8	22.0	16.5
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-SA6B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8	4053.8
2.5°	4013.5	3989.7	3931.1	3857.0	3791.1	3743.5	3672.1	3625.4	3594.2	3593.3	3581.4
5°	3911.9	3863.4	3737.1	3586.9	3450.5	3327.8	3183.2	3068.7	2983.6	2969.9	2940.6
7.5°	3803.0	3723.3	3529.2	3294.9	3066.0	2833.5	2563.4	2395.9	2252.1	2183.5	2176.1
10°	3736.1	3624.5	3348.9	3010.2	2651.3	2273.2	1919.8	1675.4	1498.7	1448.3	1410.8
12.5°	3722.4	3575.0	3209.7	2742.8	2230.1	1730.3	1339.4	1079.4	938.4	893.5	881.6
15°	3736.1	3552.1	3092.5	2478.2	1803.5	1227.7	899.0	748.0	694.9	682.0	681.1
17.5°	3744.4	3524.7	2959.8	2184.4	1389.7	877.0	688.5	644.5	636.3	635.4	637.2
20°	3743.5	3482.5	2801.4	1856.6	1033.6	689.4	622.5	613.4	611.6	612.5	611.6
22.5°	3737.1	3433.1	2627.5	1518.8	780.9	616.1	594.2	588.7	587.7	587.7	587.7
25°	3749.0	3393.7	2436.1	1195.6	643.6	582.3	568.5	563.9	563.0	563.0	561.2
27.5°	3792.0	3371.8	2226.5	920.1	581.3	552.0	541.1	540.1	537.4	536.5	538.3
30°	3861.6	3371.8	1996.7	715.9	543.8	520.9	512.7	510.8	509.9	509.0	509.9
32.5°	3984.2	3397.4	1745.9	595.1	508.1	486.1	480.6	483.4	480.6	480.6	480.6
35°	4205.8	3474.3	1483.1	519.1	470.6	452.3	446.8	450.4	448.6	448.6	447.7
37.5°	4529.0	3617.1	1218.5	473.3	437.6	418.4	411.1	416.6	414.7	414.7	413.8
40°	4922.6	3824.9	966.8	438.5	405.6	385.4	379.0	381.8	377.2	377.2	379.0
42.5°	5408.8	4088.6	747.0	404.6	373.5	354.3	350.6	347.9	339.6	335.1	336.0
45°	5948.9	4363.3	582.3	371.7	343.3	327.7	322.3	314.9	301.2	292.0	293.0
47.5°	6431.4	4574.7	473.3	339.6	315.8	303.9	295.7	282.0	261.8	250.8	251.8
50°	6685.0	4606.8	402.8	307.6	290.2	278.3	266.4	245.4	221.6	209.6	208.7
52.5°	6750.0	4456.6	350.6	278.3	264.6	250.8	235.3	206.9	180.4	167.5	165.7
55°	6773.8	4227.8	303.9	250.8	237.1	221.6	201.4	169.4	144.6	131.8	130.9
57.5°	6695.0	3886.3	267.3	226.1	209.6	190.4	165.7	135.5	111.7	101.6	101.6
60°	6520.2	3424.0	238.9	199.6	181.3	159.3	133.7	105.3	83.3	75.1	75.1
62.5°	6171.4	2825.2	212.4	172.1	154.7	131.8	108.0	79.6	58.6	54.0	54.9
65°	5513.1	2143.2	185.8	147.4	131.8	108.9	84.2	56.8	39.4	39.4	41.2
67.5°	4496.0	1488.6	158.4	125.4	113.5	88.8	64.1	39.4	27.5	31.1	34.8
70°	2976.3	834.9	135.5	103.5	97.0	70.5	47.6	26.5	22.0	29.3	35.7
72.5°	1123.3	325.0	113.5	83.3	84.2	54.0	33.9	20.1	20.1	32.0	42.1
75°	313.1	159.3	81.5	61.3	65.9	39.4	24.7	17.4	19.2	36.6	49.4
77.5°	184.0	117.2	53.1	35.7	44.9	27.5	16.5	13.7	16.5	31.1	47.6
80°	148.3	62.3	31.1	18.3	24.7	15.6	11.0	8.2	4.6	11.9	24.7
82.5°	148.3	37.5	14.6	12.8	12.8	8.2	5.5	3.7	0.9	0.0	6.4
85°	99.8	15.6	9.2	8.2	6.4	2.7	1.8	0.9	0.0	0.0	0.0
87.5°	16.5	6.4	3.7	1.8	0.9	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
 Rf: 81.5
 Rg: 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

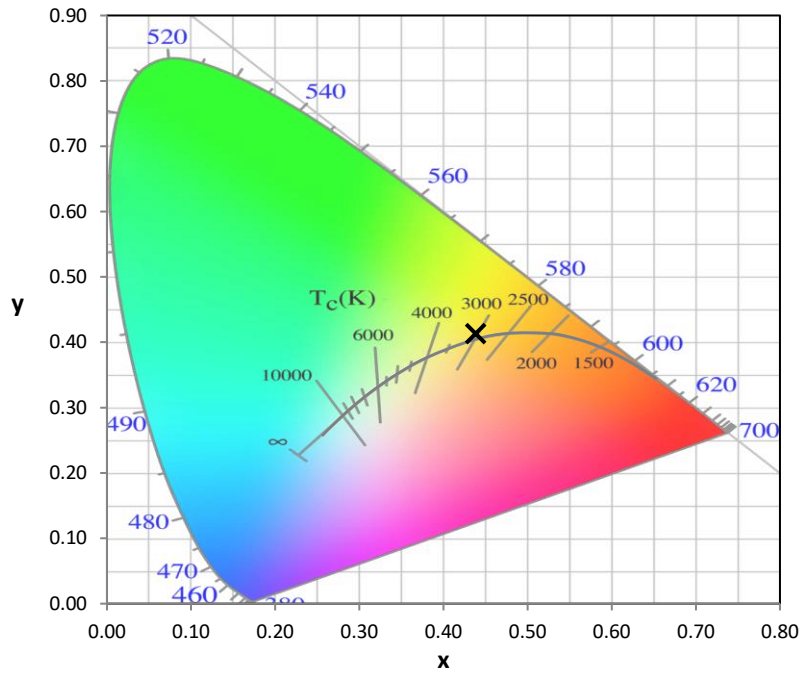
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

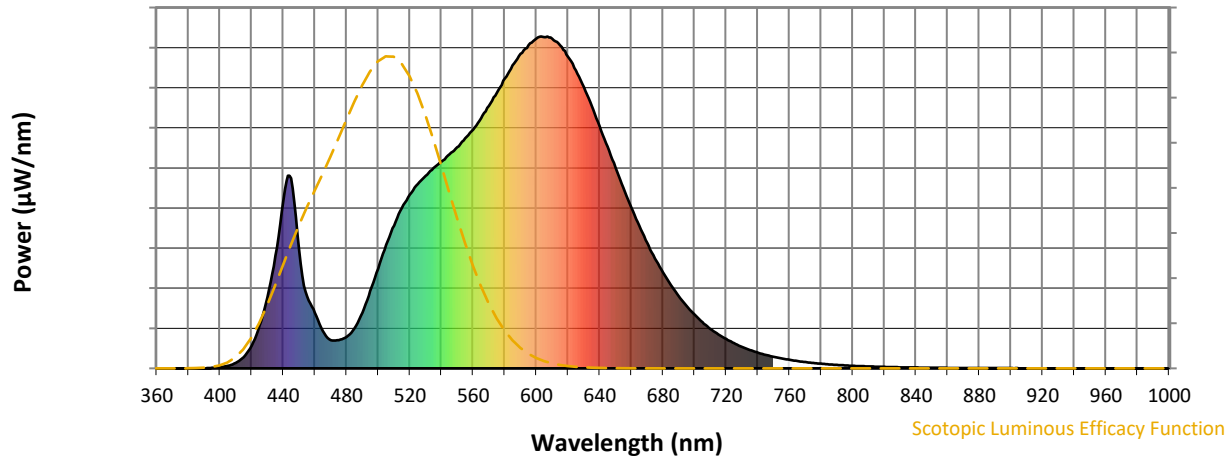


Photopic Lumens: NR

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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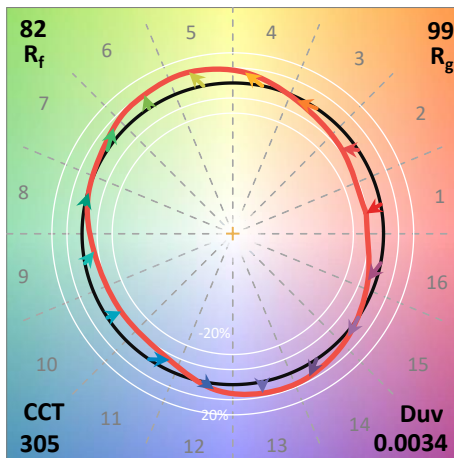
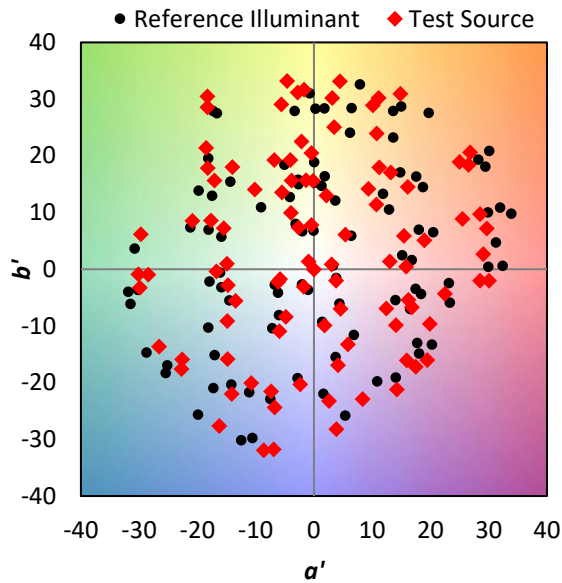
TM-30-18

Summary

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



Color Vector Graphics

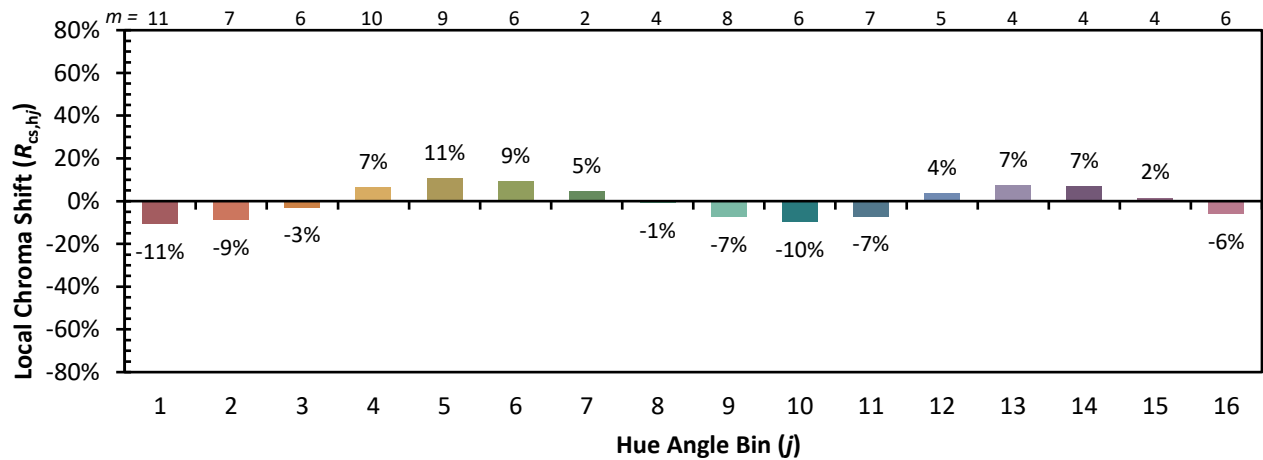


Individual Sample Fidelity Index ($R_{f,i}$)

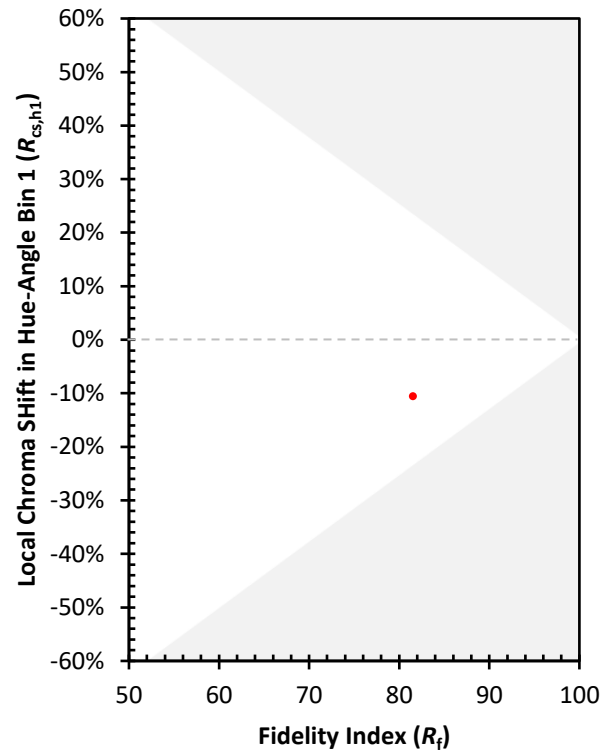
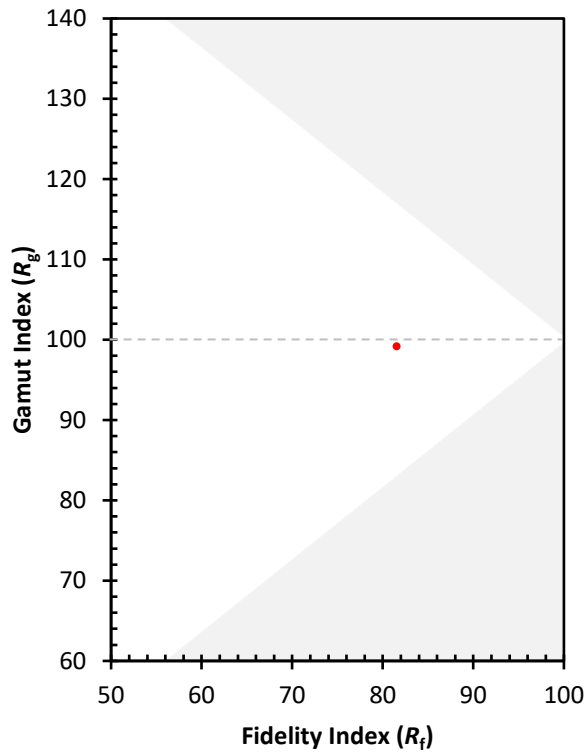
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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