

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: P320169

Luminaire Tested: **GLEON-SA5C-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26694 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

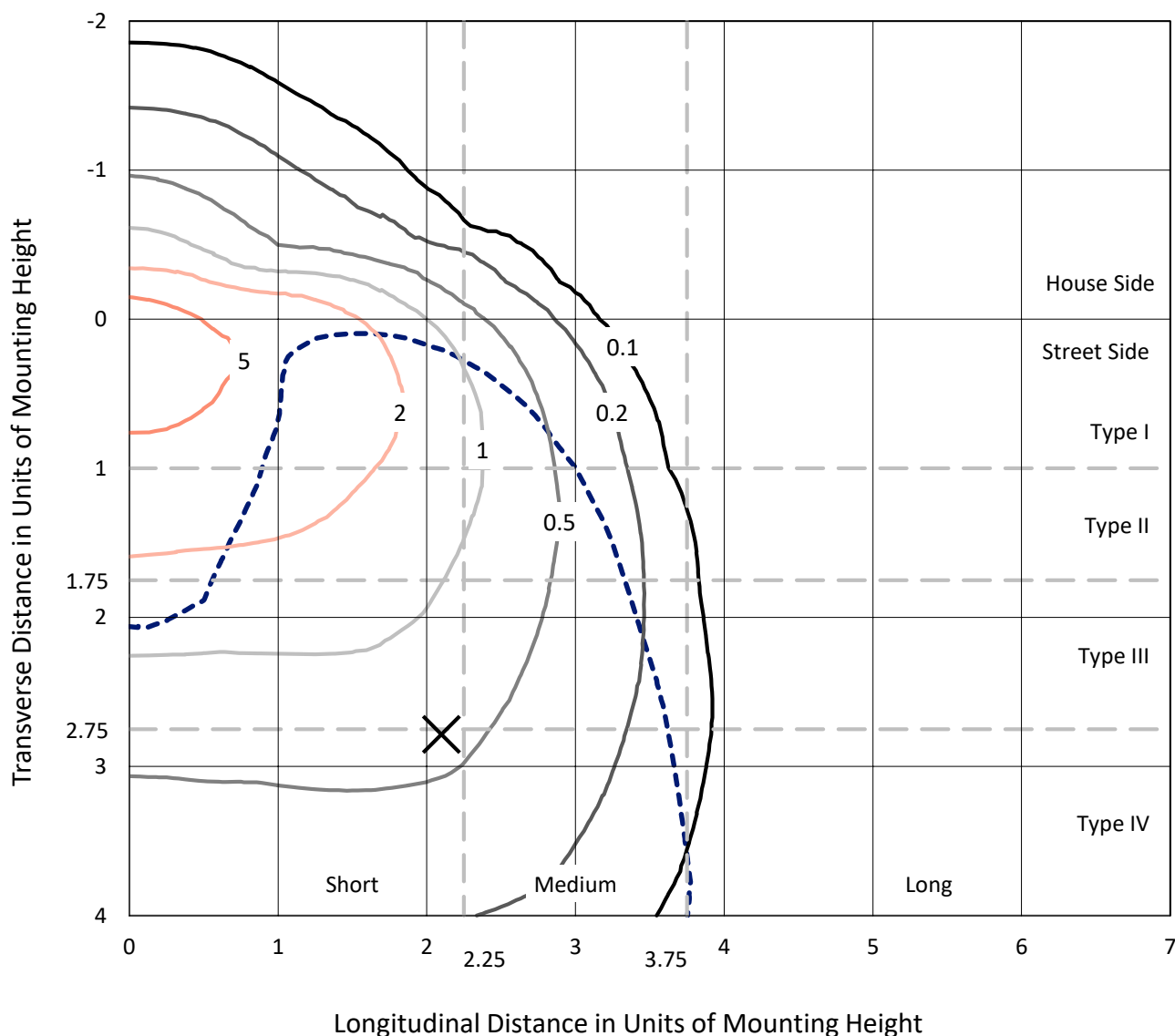
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

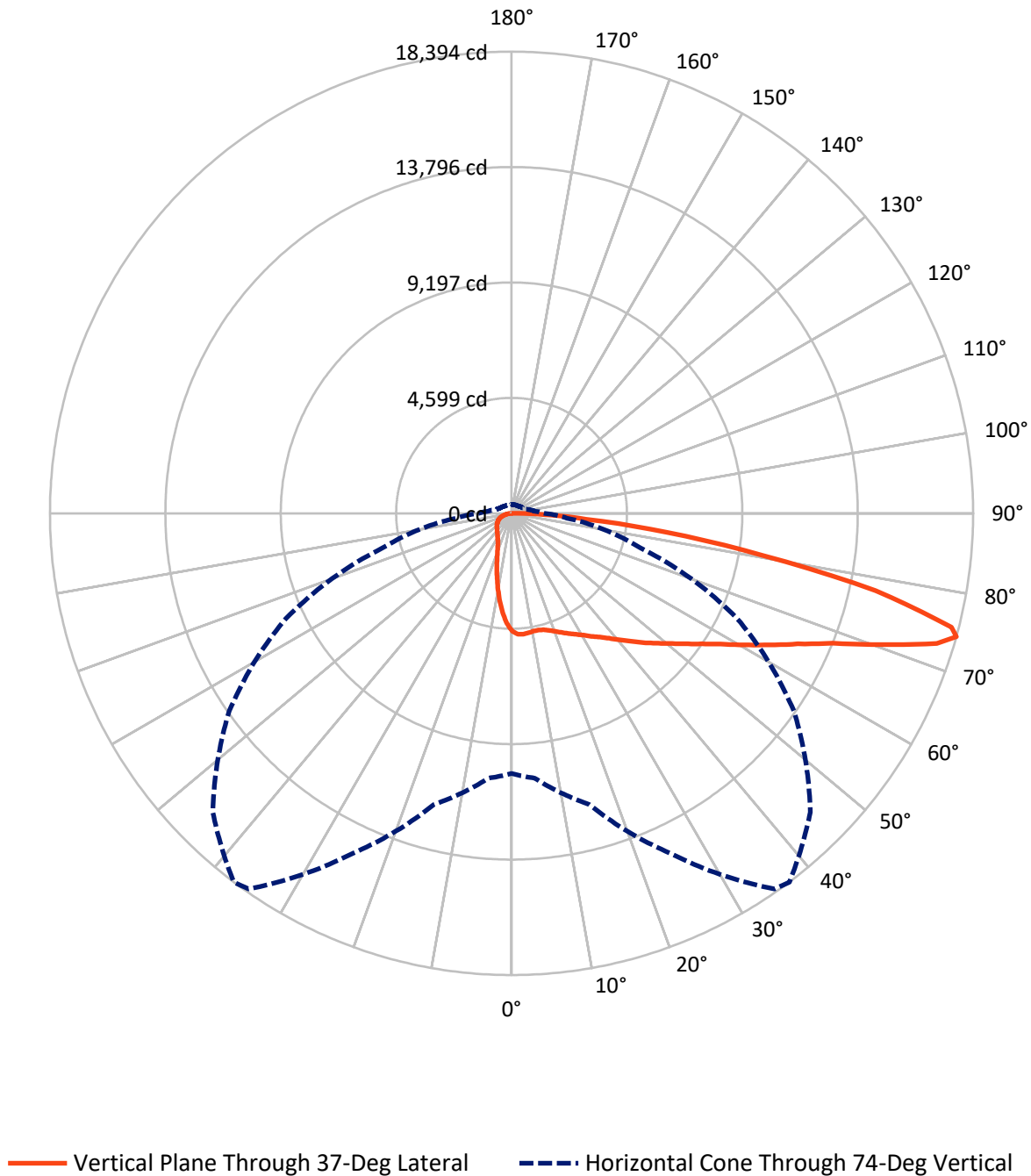
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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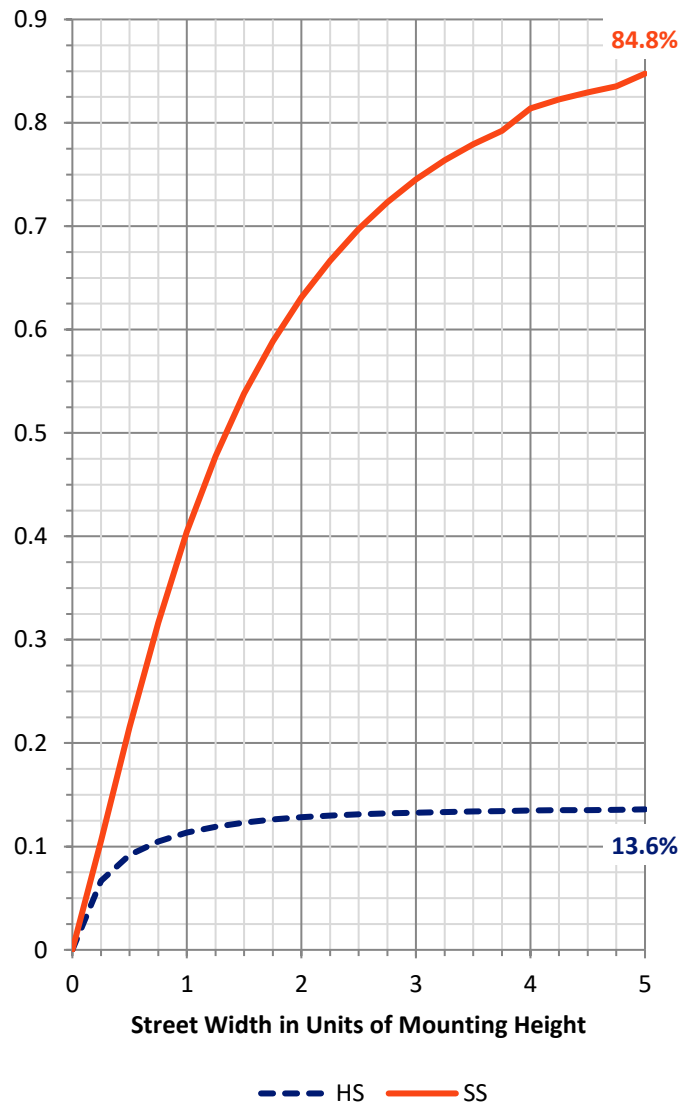
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.9	0.0	3672.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	23021.1	0.0	23021.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	26694.0	0.0	26694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.2	1.6
10°-20°	1061.7	4.0
20°-30°	1635.8	6.1
30°-40°	2378.7	8.9
40°-50°	3501.1	13.1
50°-60°	4916.6	18.4
60°-70°	6222.9	23.3
70°-80°	5479.5	20.5
80°-90°	1083.4	4.1
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°	26694.0	100.0
0°-180°	26694.0	100.0

Coefficient of Utilization



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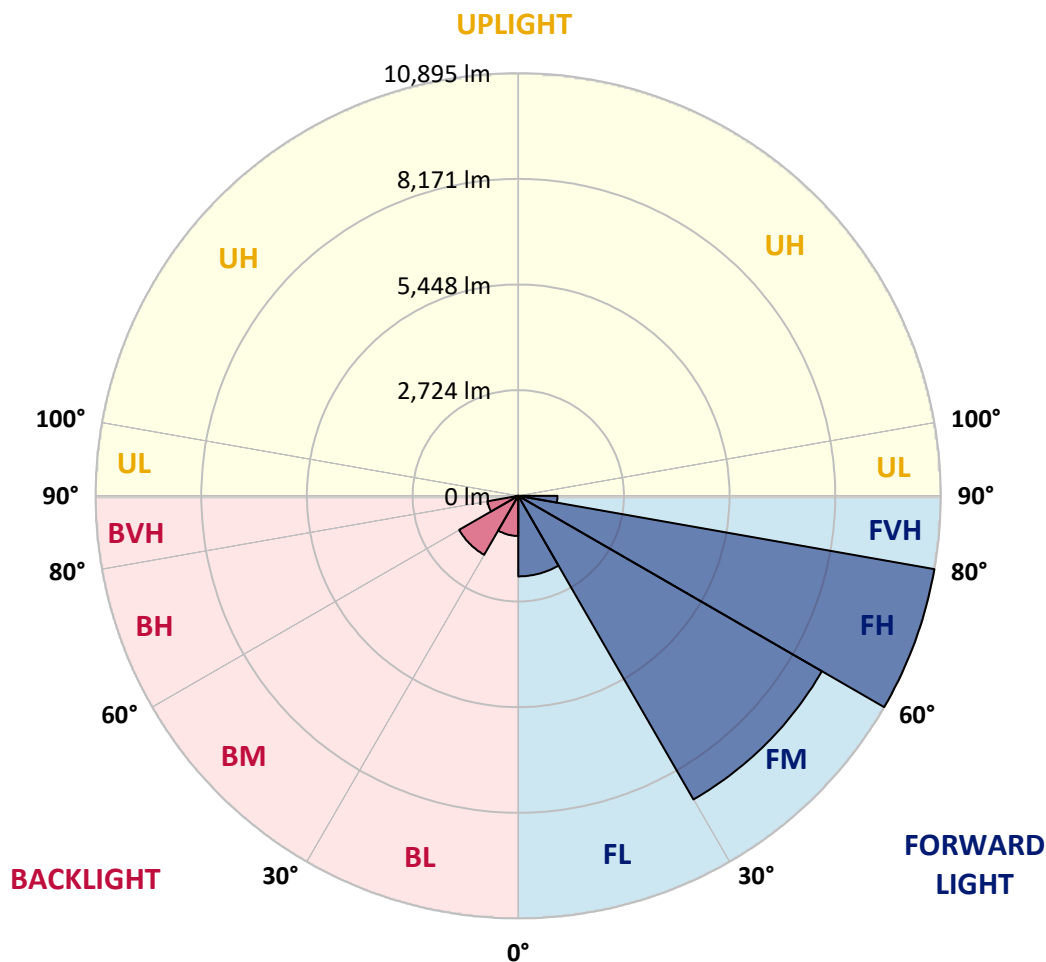
CATALOG NUMBER: GLEON-SA5C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2077.1	7.8			
FM	(30°-60°)	9038.8	33.9			
FH	(60°-80°)	10895.1	40.8			G4/12000
FVH	(80°-90°)	1010.1	3.8			G5
BL	(0°-30°)	1034.6	3.9	B3/2500		
BM	(30°-60°)	1757.6	6.6	B2/2500		
BH	(60°-80°)	807.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	73.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4
2.5°	4864.2	4865.1	4864.2	4856.6	4838.8	4823.7	4811.5	4793.6	4754.2	4724.1	4678.9
5°	4910.2	4904.6	4900.8	4886.7	4858.5	4841.6	4818.1	4784.2	4719.4	4659.2	4585.8
7.5°	4888.6	4882.0	4873.6	4856.6	4824.7	4810.6	4777.7	4733.5	4655.4	4576.4	4471.1
10°	4821.9	4820.0	4816.2	4812.5	4785.2	4773.9	4743.8	4696.8	4619.7	4523.8	4400.6
12.5°	4747.6	4752.3	4767.3	4787.1	4774.8	4769.2	4750.4	4718.4	4639.4	4536.0	4387.4
15°	4700.6	4713.7	4754.2	4805.9	4816.2	4814.3	4809.6	4788.9	4705.3	4590.5	4417.5
17.5°	4684.6	4706.2	4783.3	4868.9	4899.0	4905.5	4907.4	4871.7	4778.6	4657.3	4448.6
20°	4713.7	4741.0	4853.8	4971.4	5019.3	5023.1	5014.6	4952.6	4848.2	4714.7	4465.5
22.5°	4802.1	4826.6	4967.6	5100.2	5154.7	5160.4	5135.0	5040.9	4921.5	4782.4	4489.0
25°	4972.3	5002.4	5143.4	5276.0	5304.2	5305.2	5268.5	5151.9	5017.4	4877.3	4539.8
27.5°	5194.2	5224.3	5351.2	5481.0	5466.0	5457.5	5407.7	5291.1	5142.5	5008.0	4630.0
30°	5441.5	5474.4	5594.8	5686.9	5651.2	5634.3	5593.8	5443.4	5316.5	5186.7	4768.3
32.5°	5697.3	5727.4	5832.7	5895.7	5850.5	5843.0	5781.9	5644.6	5543.1	5459.4	4992.1
35°	5959.6	5981.2	6084.7	6120.4	6060.2	6058.4	6041.4	5915.4	5851.5	5891.0	5317.4
37.5°	6227.6	6233.2	6321.6	6323.5	6305.7	6313.2	6331.0	6252.1	6269.9	6393.1	5740.5
40°	6466.4	6481.5	6545.4	6565.2	6596.2	6622.5	6711.9	6660.1	6798.4	7016.5	6267.1
42.5°	6643.2	6672.4	6774.9	6825.6	6926.2	6967.6	7093.6	7141.6	7419.9	7747.1	6893.3
45°	6792.7	6837.9	7002.4	7106.8	7277.0	7349.4	7529.9	7690.7	8122.3	8539.8	7552.5
47.5°	6954.5	7011.8	7217.7	7417.1	7648.4	7730.2	8058.4	8299.1	8871.7	9337.2	8174.0
50°	7192.4	7236.5	7437.8	7750.9	8039.6	8144.9	8599.0	8944.1	9633.4	10096.9	8712.8
52.5°	7524.3	7507.4	7677.5	8116.7	8504.1	8633.8	9176.4	9630.6	10405.4	10784.3	9167.9
55°	7858.1	7829.9	7949.3	8499.4	9045.7	9182.0	9812.0	10319.8	11139.7	11403.0	9516.8
57.5°	8229.5	8175.9	8276.5	8931.0	9662.5	9825.2	10523.8	11052.3	11861.9	11903.3	9738.7
60°	8612.2	8539.8	8652.6	9466.0	10445.8	10637.6	11356.9	11766.9	12542.7	12303.8	9810.1
62.5°	8947.0	8896.2	9070.1	10063.1	11328.7	11539.4	12175.0	12526.7	13214.0	12470.3	9552.5
65°	9239.4	9247.8	9548.7	10734.5	12313.2	12538.0	13113.4	13463.2	13742.5	12371.5	8949.8
67.5°	9588.2	9636.2	10149.6	11618.3	13552.5	13798.9	14478.7	14484.4	14037.7	11792.3	7763.1
70°	10096.9	10195.7	10976.1	12844.5	15314.7	15653.2	16177.9	15084.3	13623.1	10222.0	6108.2
72.5°	10548.3	10732.6	11855.3	14247.4	17462.3	17719.0	17171.8	14738.3	11890.1	7660.6	3805.4
74°	10364.9	10593.4	12015.2	14938.5	18271.0	18394.1	16836.1	13728.4	9913.6	5305.2	2211.6
75°	9970.0	10218.2	11782.0	14932.0	18168.5	18099.8	16025.5	12574.6	8164.6	3618.3	1471.6
77.5°	8046.1	8308.5	9927.7	12797.5	14897.2	14832.3	12310.4	8435.4	3576.0	1186.7	747.5
80°	4678.0	4878.3	6162.7	8127.0	10045.2	10162.8	8096.0	4174.0	1406.7	666.7	506.8
82.5°	2078.1	2216.3	2977.0	4148.6	6062.1	6213.5	4239.8	2187.1	868.8	405.3	304.7
85°	1363.4	1465.9	1807.3	1975.6	2886.7	2990.2	2075.2	1702.9	573.6	222.9	223.8
87.5°	980.7	1079.5	1342.7	1172.6	1324.9	1254.4	1129.3	1575.9	230.4	126.9	75.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4	4703.4
2.5°	4659.2	4644.1	4610.3	4546.3	4510.6	4480.5	4430.7	4401.5	4388.4	4387.4	4393.1
5°	4543.5	4508.7	4421.3	4314.1	4228.5	4150.5	4053.6	3995.3	3954.0	3929.5	3936.1
7.5°	4409.1	4354.5	4217.2	4046.1	3908.8	3757.4	3607.9	3518.6	3449.0	3397.3	3406.7
10°	4316.9	4241.7	4041.4	3795.0	3566.6	3346.5	3140.6	3017.4	2919.6	2844.4	2850.0
12.5°	4285.9	4184.3	3906.9	3577.8	3257.2	2956.3	2687.4	2498.4	2397.8	2312.2	2318.8
15°	4290.6	4154.2	3794.1	3382.3	2978.9	2599.9	2273.6	2052.7	1916.3	1857.1	1858.0
17.5°	4294.3	4119.5	3675.6	3172.6	2703.4	2267.1	1912.6	1688.8	1560.0	1505.4	1506.4
20°	4282.1	4063.0	3528.9	2931.9	2415.6	1961.5	1618.3	1428.3	1330.5	1288.2	1288.2
22.5°	4266.1	3996.3	3363.5	2690.2	2131.7	1696.3	1407.6	1262.8	1206.4	1178.2	1177.3
25°	4273.7	3946.4	3194.2	2442.0	1870.3	1484.7	1267.5	1171.6	1134.0	1116.1	1115.2
27.5°	4314.1	3922.9	3038.1	2194.7	1641.8	1325.8	1173.5	1105.8	1081.3	1070.1	1070.1
30°	4387.4	3922.9	2875.4	1984.0	1451.8	1208.3	1101.1	1055.0	1038.1	1030.6	1030.6
32.5°	4515.3	3944.6	2718.4	1775.3	1300.4	1116.1	1040.9	1009.9	996.7	993.0	993.0
35°	4735.3	4017.9	2565.1	1577.8	1178.2	1040.9	983.6	965.7	956.3	955.3	958.2
37.5°	5044.7	4167.4	2421.3	1432.1	1091.7	979.8	935.6	921.5	915.9	920.6	924.3
40°	5434.0	4370.5	2290.6	1300.4	1025.9	930.9	891.4	882.0	879.2	885.8	891.4
42.5°	5904.1	4645.1	2183.4	1205.5	975.1	889.5	853.8	842.5	839.7	847.2	854.7
45°	6412.8	4940.3	2108.2	1134.9	935.6	858.5	820.9	808.7	803.0	806.8	815.2
47.5°	6875.5	5219.6	2078.1	1085.1	898.0	832.2	791.7	776.7	767.3	765.4	772.0
50°	7265.7	5427.4	2092.2	1055.0	867.9	803.0	763.5	746.6	732.5	724.0	728.7
52.5°	7549.7	5558.1	2105.3	1041.9	844.4	771.0	732.5	716.5	697.7	683.6	683.6
55°	7755.6	5588.2	2076.2	1031.5	826.5	736.3	697.7	682.7	663.9	647.9	646.0
57.5°	7836.5	5503.6	1968.0	1016.5	814.3	703.3	661.0	649.7	633.8	615.0	614.0
60°	7727.4	5242.2	1759.3	984.5	798.3	676.1	624.4	616.8	609.3	591.4	590.5
62.5°	7289.2	4668.6	1489.4	919.6	766.3	646.9	590.5	594.3	595.2	583.0	581.1
65°	6494.7	3880.6	1226.2	835.0	718.4	612.1	555.7	573.6	583.9	582.0	579.2
67.5°	5340.0	3020.2	1039.0	745.7	655.4	564.2	518.1	538.8	547.3	553.8	552.0
70°	3963.4	2129.8	859.4	651.6	579.2	507.8	469.2	479.6	473.9	481.4	484.3
72.5°	2209.7	1277.9	700.5	557.6	500.2	441.9	414.7	412.8	400.6	400.6	400.6
74°	1325.8	937.5	615.9	499.3	452.3	398.7	375.2	366.7	355.4	356.4	355.4
75°	1066.3	805.8	565.1	460.7	418.4	373.3	349.8	338.5	330.0	330.0	329.1
77.5°	673.3	612.1	455.1	366.7	334.7	307.5	291.5	276.4	276.4	275.5	274.6
80°	508.7	487.1	354.5	277.4	256.7	236.0	225.7	219.1	219.1	221.9	221.0
82.5°	348.9	366.7	249.2	193.7	183.4	168.3	166.4	167.4	164.6	160.8	159.9
85°	254.8	275.5	168.3	122.2	111.9	102.5	110.0	113.8	109.1	100.6	96.9
87.5°	97.8	180.5	90.3	50.8	47.0	40.4	47.0	48.9	52.7	41.4	42.3
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

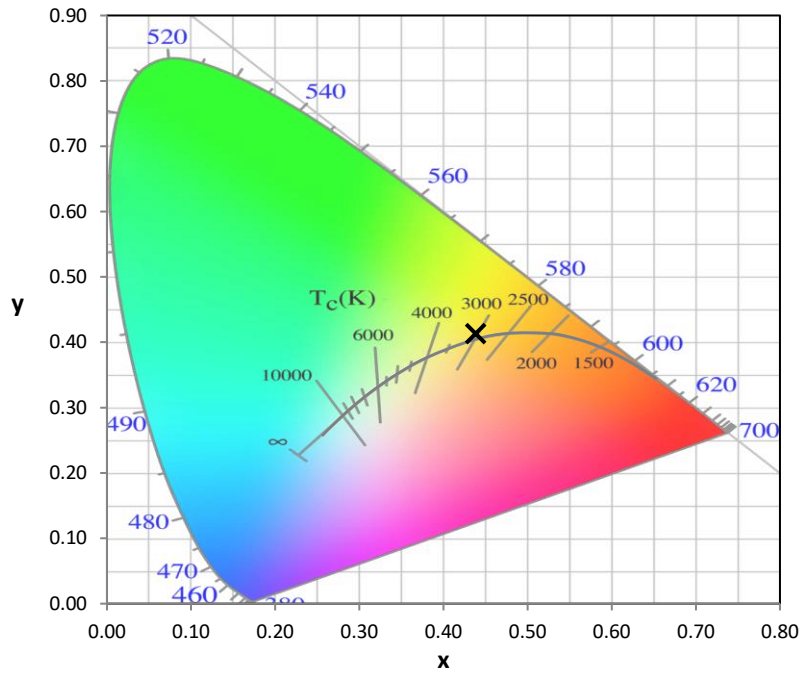
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

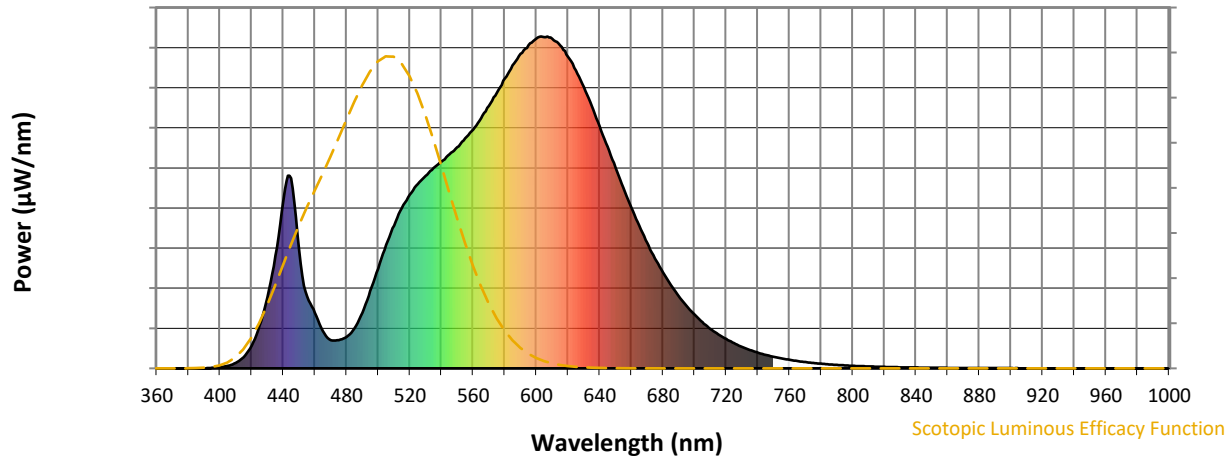


Photopic Lumens: NR

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



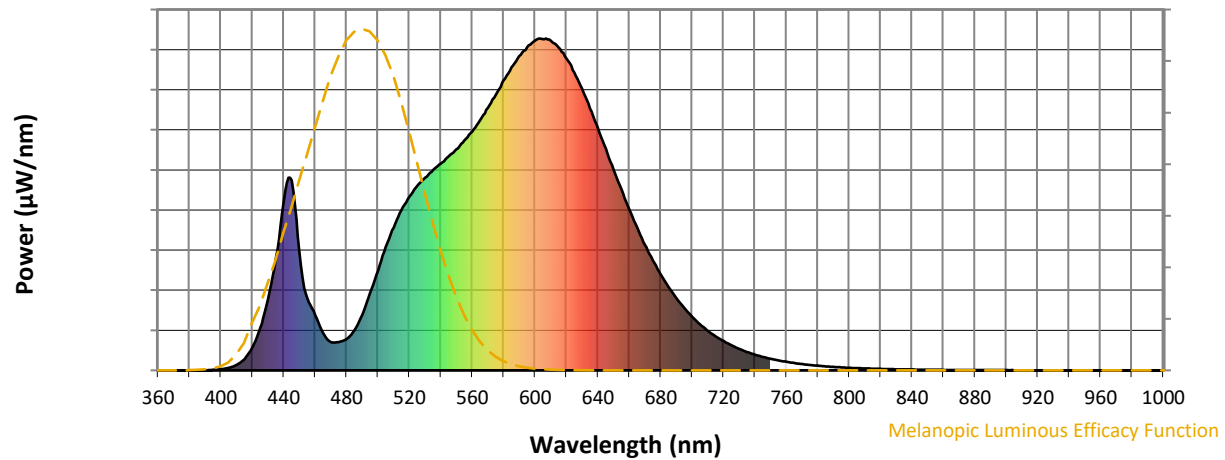
Scotopic Lumens: NR

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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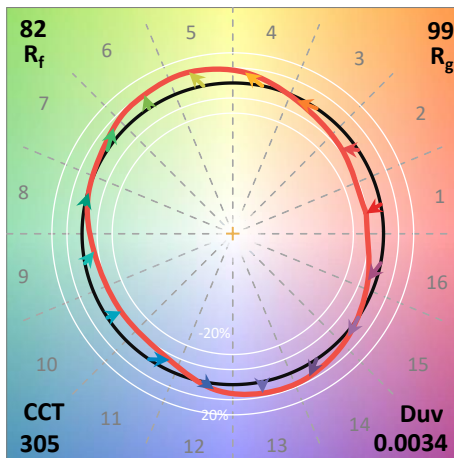
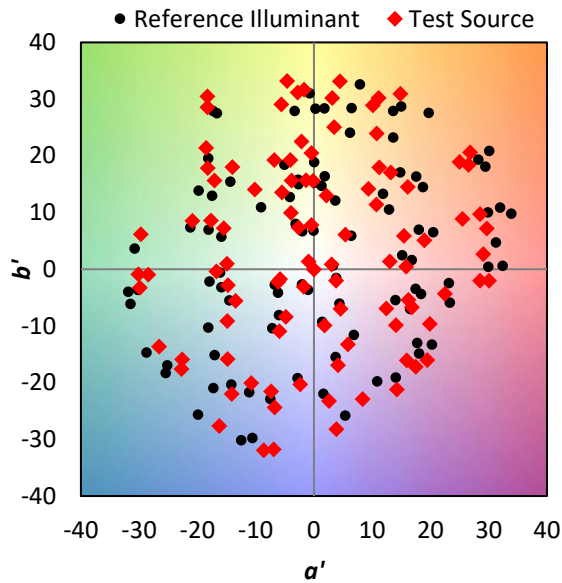
TM-30-18

Summary

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



Color Vector Graphics

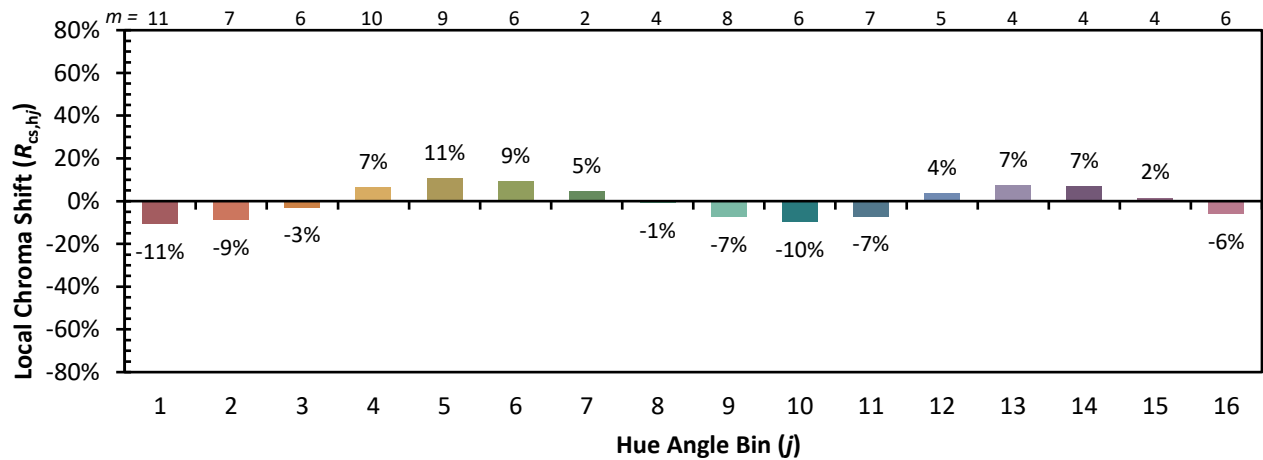


Individual Sample Fidelity Index ($R_{f,i}$)

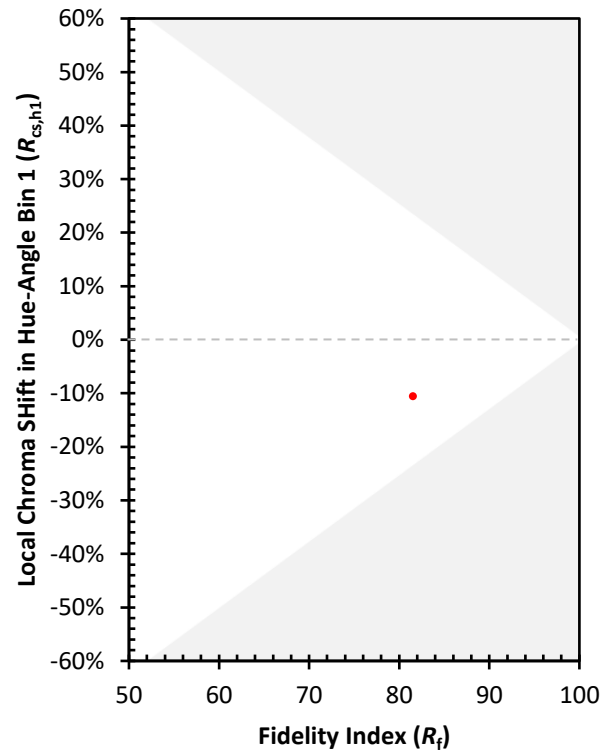
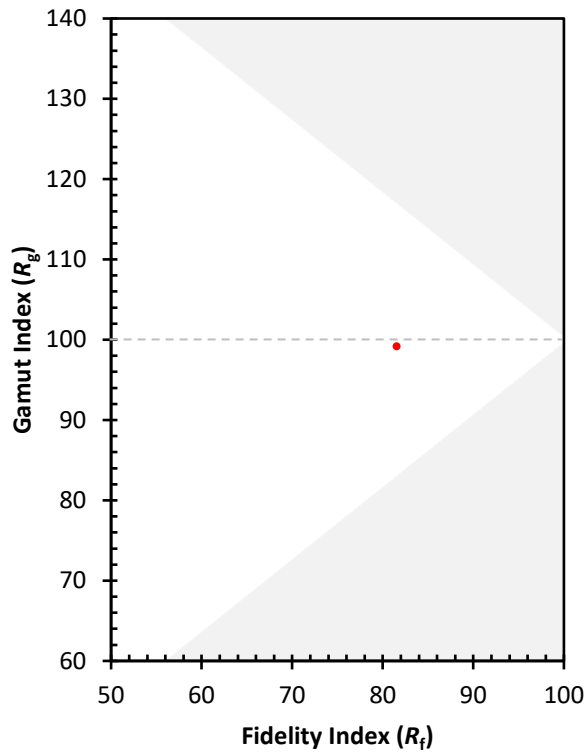
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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