

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: P320154

Luminaire Tested: **GLEON-SA0A-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320154
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-SA0A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA 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: 34830 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

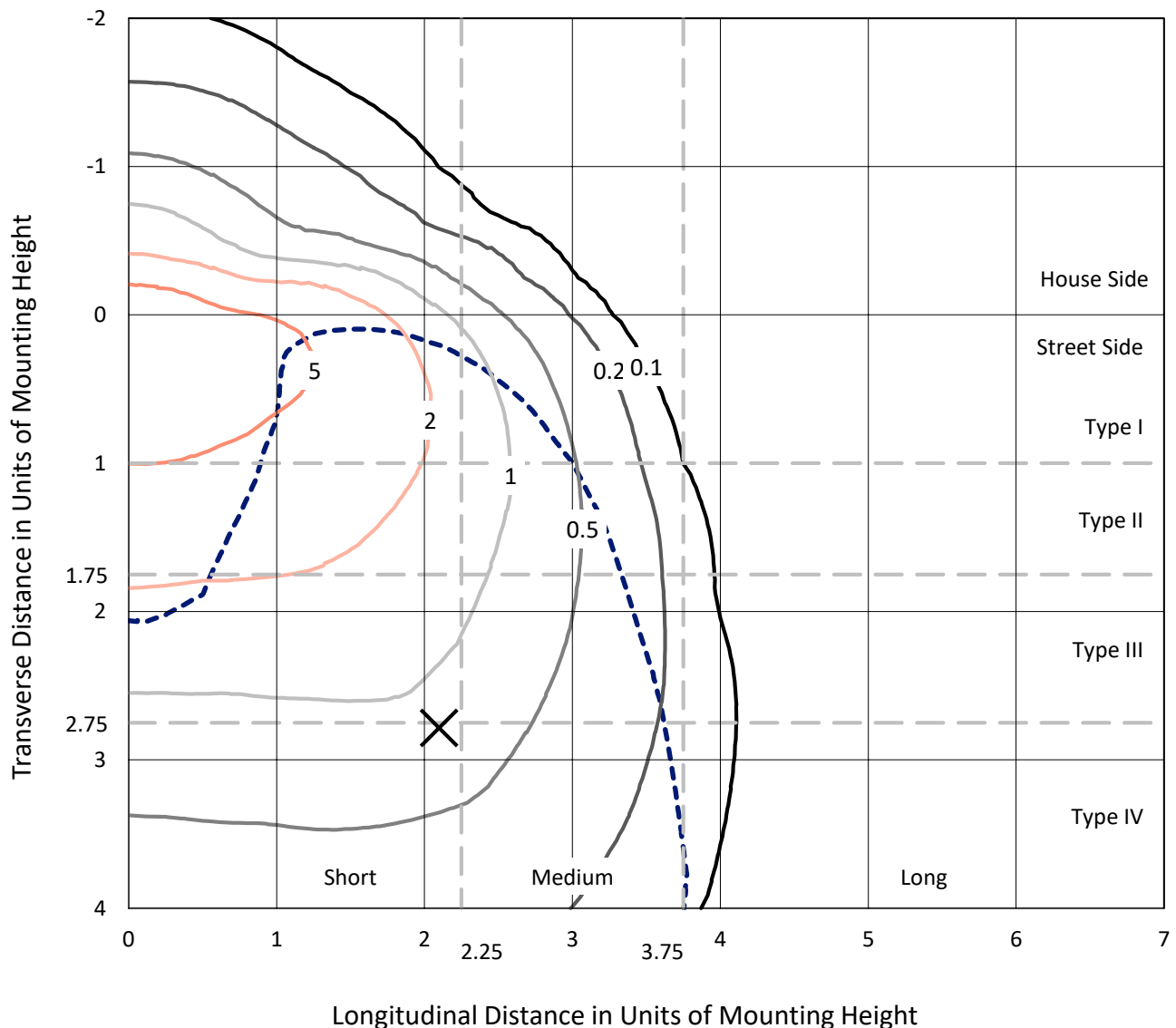
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

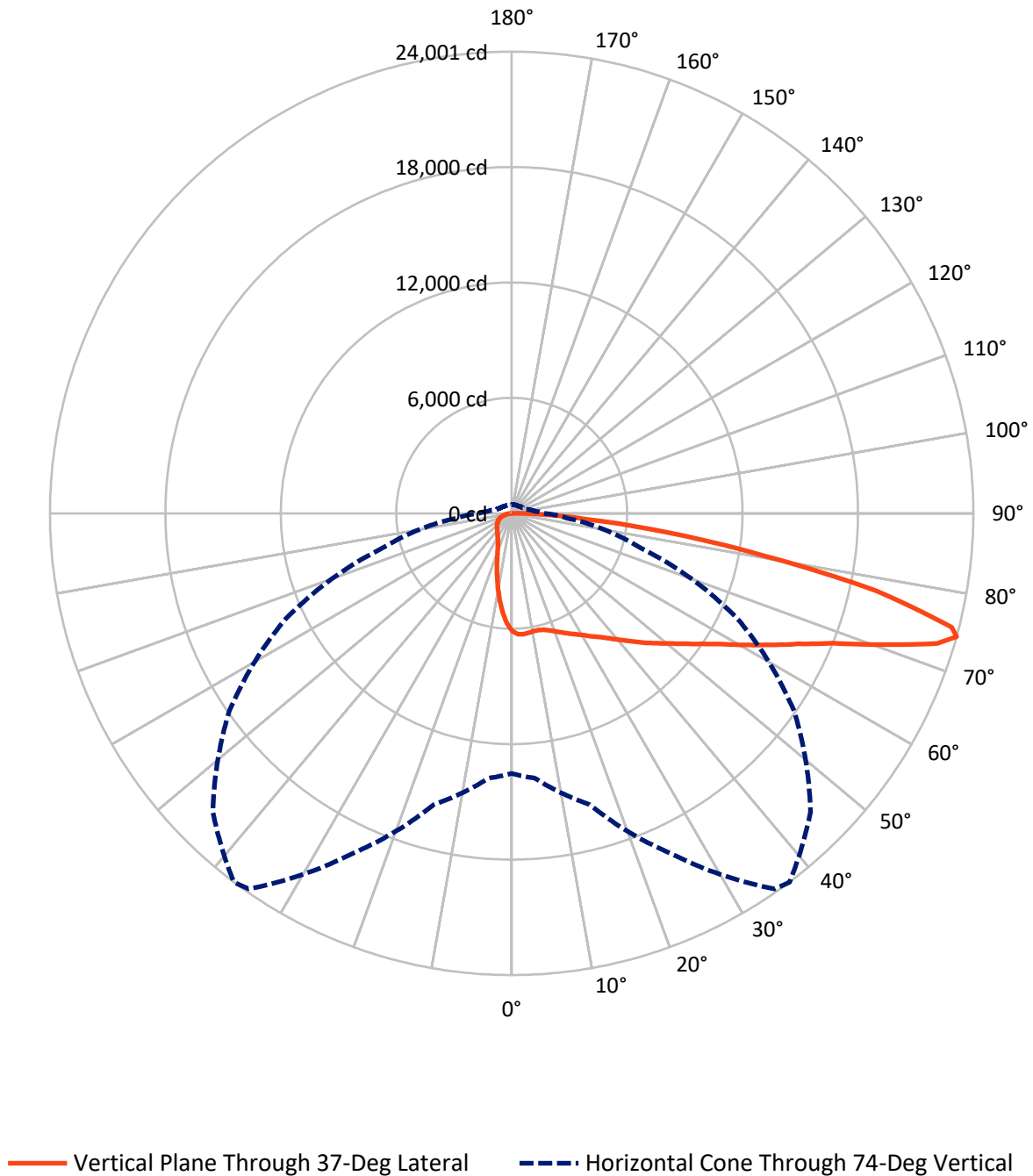
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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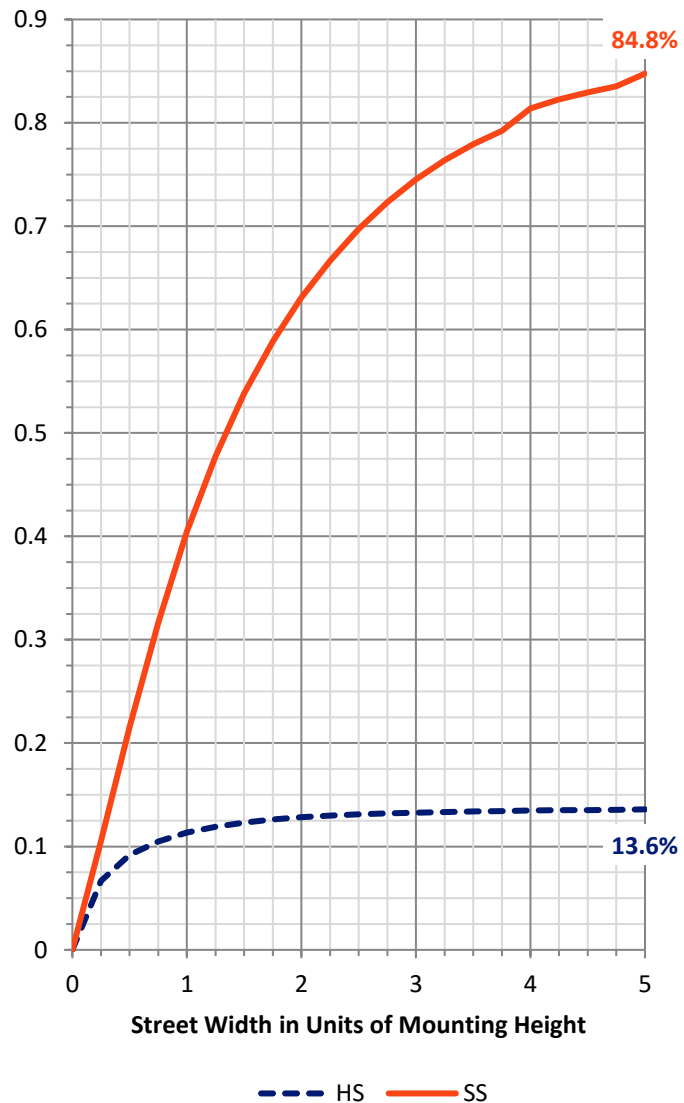
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4792.4	0.0	4792.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	30037.6	0.0	30037.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	34830.0	0.0	34830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.4	1.6
10°-20°	1385.2	4.0
20°-30°	2134.4	6.1
30°-40°	3103.7	8.9
40°-50°	4568.2	13.1
50°-60°	6415.2	18.4
60°-70°	8119.6	23.3
70°-80°	7149.6	20.5
80°-90°	1413.6	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°	34830.0	100.0
0°-180°	34830.0	100.0

Coefficient of Utilization



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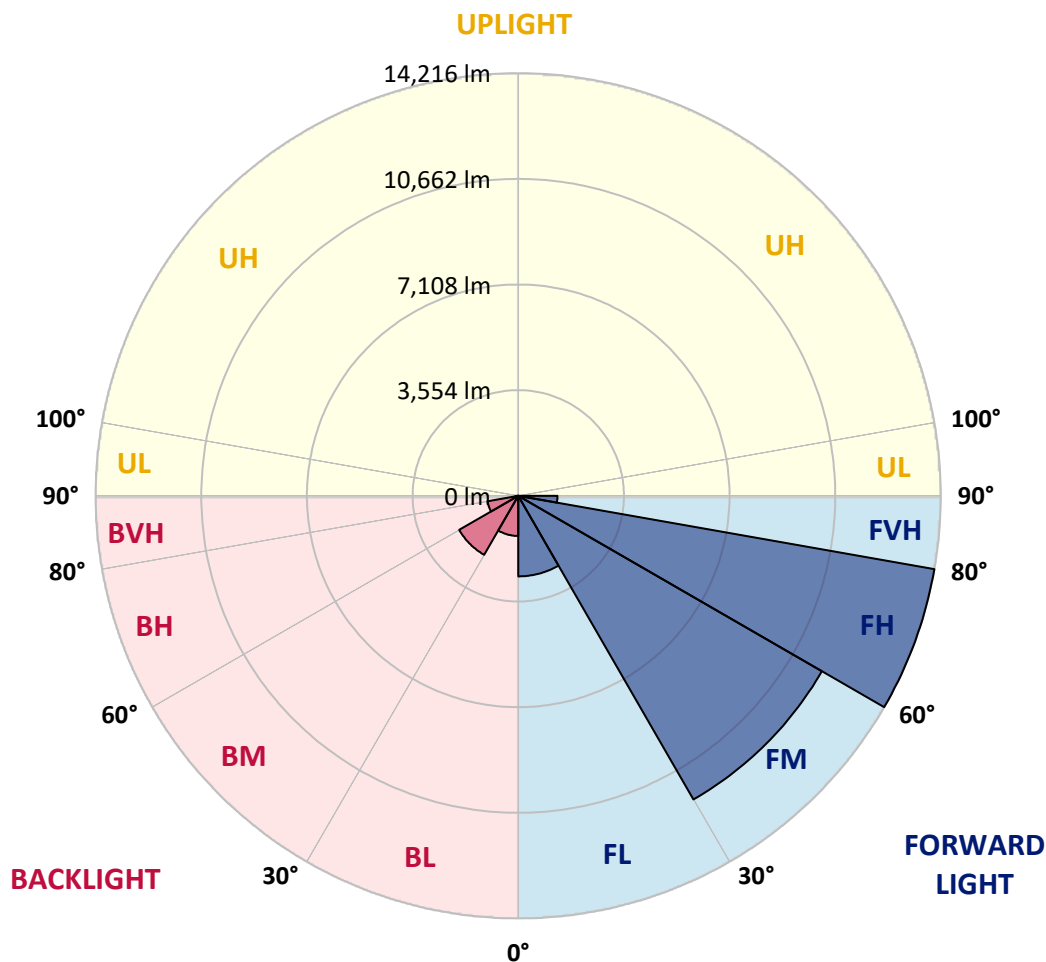
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2710.2	7.8			
FM	(30°-60°)	11793.7	33.9			
FH	(60°-80°)	14215.8	40.8			G5
FVH	(80°-90°)	1317.9	3.8			G5
BL	(0°-30°)	1349.9	3.9	B3/2500		
BM	(30°-60°)	2293.3	6.6	B2/2500		
BH	(60°-80°)	1053.4	3.0	B3/2500		G3/2500
BVH	(80°-90°)	95.7	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°	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9
2.5°	6346.7	6347.9	6346.7	6336.9	6313.6	6294.0	6278.0	6254.7	6203.2	6163.9	6105.0
5°	6406.8	6399.5	6394.6	6376.2	6339.3	6317.3	6286.6	6242.4	6157.8	6079.2	5983.5
7.5°	6378.6	6370.0	6359.0	6336.9	6295.2	6276.8	6233.8	6176.2	6074.3	5971.3	5833.9
10°	6291.5	6289.0	6284.1	6279.2	6243.7	6228.9	6189.7	6128.3	6027.7	5902.6	5741.9
12.5°	6194.6	6200.7	6220.3	6246.1	6230.2	6222.8	6198.3	6156.5	6053.5	5918.5	5724.7
15°	6133.2	6150.4	6203.2	6270.6	6284.1	6281.7	6275.5	6248.6	6139.4	5989.7	5763.9
17.5°	6112.4	6140.6	6241.2	6352.8	6392.1	6400.7	6403.1	6356.5	6235.1	6076.8	5804.4
20°	6150.4	6186.0	6333.2	6486.6	6549.1	6554.1	6543.0	6462.0	6325.9	6151.6	5826.5
22.5°	6265.7	6297.6	6481.7	6654.7	6725.8	6733.2	6700.1	6577.4	6421.5	6240.0	5857.2
25°	6487.8	6527.1	6711.1	6884.1	6920.9	6922.1	6874.3	6722.1	6546.7	6363.9	5923.4
27.5°	6777.3	6816.6	6982.2	7151.6	7131.9	7120.9	7055.9	6903.7	6709.9	6534.4	6041.2
30°	7100.0	7143.0	7300.0	7420.2	7373.6	7351.5	7298.8	7102.5	6936.8	6767.5	6221.6
32.5°	7433.7	7473.0	7610.4	7692.6	7633.7	7623.9	7544.2	7365.0	7232.5	7123.3	6513.6
35°	7776.0	7804.3	7939.2	7985.8	7907.3	7904.9	7882.8	7718.4	7634.9	7686.5	6938.1
37.5°	8125.7	8133.1	8248.4	8250.8	8227.5	8237.3	8260.7	8157.6	8180.9	8341.6	7490.2
40°	8437.3	8457.0	8540.4	8566.2	8606.6	8641.0	8757.6	8690.1	8870.4	9155.1	8177.2
42.5°	8668.0	8706.0	8839.8	8906.0	9037.3	9091.3	9255.7	9318.2	9681.4	10108.4	8994.3
45°	8863.1	8922.0	9136.7	9272.8	9494.9	9589.4	9824.9	10034.7	10597.9	11142.6	9854.4
47.5°	9074.1	9148.9	9417.6	9677.7	9979.5	10086.3	10514.5	10828.5	11575.7	12183.0	10665.4
50°	9384.5	9442.2	9704.7	10113.3	10489.9	10627.3	11219.9	11670.2	12569.5	13174.4	11368.4
52.5°	9817.6	9795.5	10017.6	10590.5	11096.0	11265.3	11973.2	12565.8	13576.8	14071.2	11962.2
55°	10253.1	10216.3	10372.1	11089.9	11802.7	11980.6	12802.6	13465.1	14535.0	14878.5	12417.4
57.5°	10737.8	10667.8	10799.1	11653.0	12607.5	12819.8	13731.4	14420.9	15477.2	15531.2	12706.9
60°	11237.1	11142.6	11289.9	12351.1	13629.5	13879.8	14818.4	15353.3	16365.5	16053.9	12800.2
62.5°	11673.9	11607.6	11834.6	13130.2	14781.6	15056.4	15885.8	16344.6	17241.5	16271.0	12464.0
65°	12055.4	12066.5	12459.1	14006.2	16066.1	16359.4	17110.2	17566.6	17931.0	16142.2	11677.6
67.5°	12510.6	12573.2	13243.1	15159.5	17683.2	18004.6	18891.7	18899.0	18316.3	15386.4	10129.2
70°	13174.4	13303.2	14321.5	16759.3	19982.4	20424.1	21108.7	19681.8	17775.2	13337.5	7969.9
72.5°	13763.3	14003.7	15468.6	18589.9	22784.6	23119.5	22405.5	19230.3	15514.0	9995.5	4965.2
74°	13524.0	13822.2	15677.2	19491.6	23839.7	24000.5	21967.5	17912.6	12935.1	6922.1	2885.6
75°	13008.7	13332.6	15372.9	19483.0	23706.0	23616.4	20909.9	16407.2	10653.1	4721.1	1920.1
77.5°	10498.5	10840.8	12953.5	16698.0	19437.6	19353.0	16062.5	11006.4	4665.9	1548.3	975.4
80°	6103.8	6365.1	8041.0	10604.0	13106.9	13260.2	10563.5	5446.2	1835.4	869.9	661.3
82.5°	2711.4	2891.8	3884.3	5413.0	7909.8	8107.3	5532.1	2853.7	1133.6	528.8	397.5
85°	1779.0	1912.7	2358.1	2577.7	3766.6	3901.5	2707.7	2221.9	748.4	290.8	292.0
87.5°	1279.6	1408.5	1752.0	1529.9	1728.7	1636.7	1473.5	2056.3	300.6	165.6	98.2
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°	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9	6136.9
2.5°	6079.2	6059.6	6015.4	5932.0	5885.4	5846.1	5781.1	5743.1	5725.9	5724.7	5732.0
5°	5928.3	5882.9	5768.8	5629.0	5517.3	5415.5	5289.1	5213.1	5159.1	5127.2	5135.8
7.5°	5752.9	5681.7	5502.6	5279.3	5100.2	4902.7	4707.6	4591.0	4500.2	4432.8	4445.0
10°	5632.7	5534.5	5273.2	4951.7	4653.6	4366.5	4097.8	3937.1	3809.5	3711.3	3718.7
12.5°	5592.2	5459.7	5097.7	4668.3	4250.0	3857.3	3506.5	3259.9	3128.6	3016.9	3025.5
15°	5598.3	5420.4	4950.5	4413.1	3886.8	3392.4	2966.6	2678.3	2500.4	2423.1	2424.3
17.5°	5603.2	5375.0	4795.9	4139.5	3527.3	2958.0	2495.5	2203.5	2035.4	1964.3	1965.5
20°	5587.3	5301.4	4604.5	3825.4	3151.9	2559.3	2111.5	1863.6	1736.1	1680.8	1680.8
22.5°	5566.4	5214.3	4388.6	3510.1	2781.4	2213.3	1836.7	1647.7	1574.1	1537.3	1536.1
25°	5576.2	5149.3	4167.8	3186.2	2440.3	1937.3	1653.8	1528.7	1479.6	1456.3	1455.1
27.5°	5629.0	5118.6	3964.1	2863.6	2142.2	1729.9	1531.2	1442.8	1410.9	1396.2	1396.2
30°	5724.7	5118.6	3751.8	2588.7	1894.3	1576.6	1436.7	1376.6	1354.5	1344.7	1344.7
32.5°	5891.5	5146.8	3546.9	2316.4	1696.8	1456.3	1358.2	1317.7	1300.5	1295.6	1295.6
35°	6178.6	5242.5	3347.0	2058.7	1537.3	1358.2	1283.3	1260.0	1247.7	1246.5	1250.2
37.5°	6582.3	5437.6	3159.2	1868.6	1424.4	1278.4	1220.8	1202.4	1195.0	1201.1	1206.0
40°	7090.2	5702.6	2988.7	1696.8	1338.5	1214.6	1163.1	1150.8	1147.1	1155.7	1163.1
42.5°	7703.7	6060.8	2848.8	1572.9	1272.3	1160.6	1114.0	1099.3	1095.6	1105.4	1115.2
45°	8367.4	6446.1	2750.7	1480.9	1220.8	1120.2	1071.1	1055.1	1047.8	1052.7	1063.7
47.5°	8971.0	6810.5	2711.4	1415.8	1171.7	1085.8	1033.0	1013.4	1001.1	998.7	1007.3
50°	9480.2	7081.6	2729.8	1376.6	1132.4	1047.8	996.2	974.2	955.7	944.7	950.8
52.5°	9850.7	7252.2	2747.0	1359.4	1101.7	1006.1	955.7	934.9	910.4	892.0	892.0
55°	10119.4	7291.4	2709.0	1345.9	1078.4	960.7	910.4	890.7	866.2	845.3	842.9
57.5°	10224.9	7181.0	2567.9	1326.3	1062.5	917.7	862.5	847.8	826.9	802.4	801.2
60°	10082.6	6839.9	2295.5	1284.6	1041.6	882.1	814.7	804.8	795.0	771.7	770.5
62.5°	9510.9	6091.5	1943.4	1199.9	999.9	844.1	770.5	775.4	776.6	760.7	758.2
65°	8474.1	5063.4	1599.9	1089.5	937.3	798.7	725.1	748.4	761.9	759.4	755.8
67.5°	6967.5	3940.8	1355.7	972.9	855.1	736.1	676.0	703.0	714.1	722.6	720.2
70°	5171.3	2778.9	1121.4	850.2	755.8	662.5	612.2	625.7	618.4	628.2	631.8
72.5°	2883.2	1667.3	914.0	727.5	652.7	576.6	541.1	538.6	522.7	522.7	522.7
74°	1729.9	1223.2	803.6	651.5	590.1	520.2	489.5	478.5	463.8	465.0	463.8
75°	1391.3	1051.4	737.4	601.2	546.0	487.1	456.4	441.7	430.6	430.6	429.4
77.5°	878.5	798.7	593.8	478.5	436.8	401.2	380.3	360.7	360.7	359.5	358.3
80°	663.7	635.5	462.5	361.9	334.9	307.9	294.5	285.9	285.9	289.5	288.3
82.5°	455.2	478.5	325.1	252.7	239.2	219.6	217.2	218.4	214.7	209.8	208.6
85°	332.5	359.5	219.6	159.5	146.0	133.7	143.5	148.5	142.3	131.3	126.4
87.5°	127.6	235.6	117.8	66.3	61.3	52.8	61.3	63.8	68.7	54.0	55.2
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

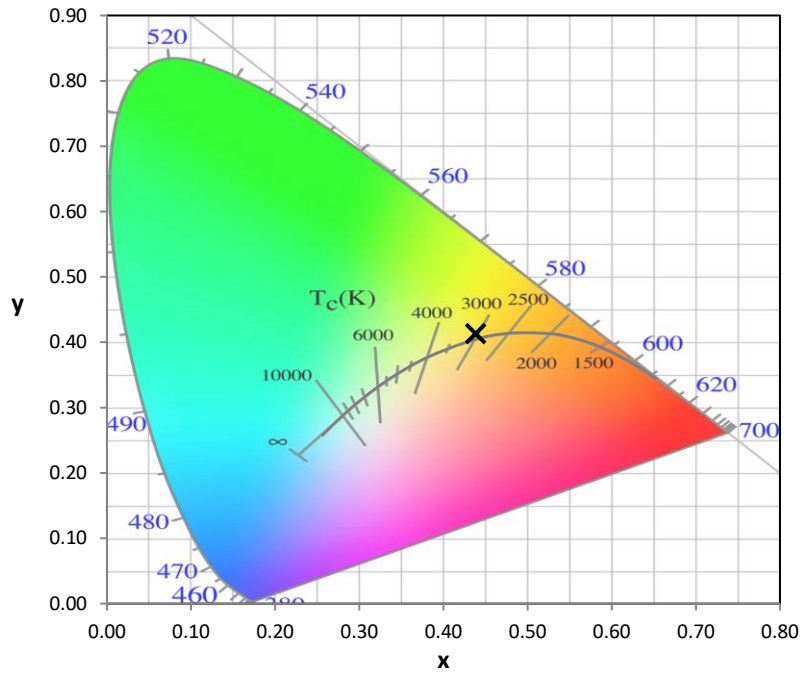
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

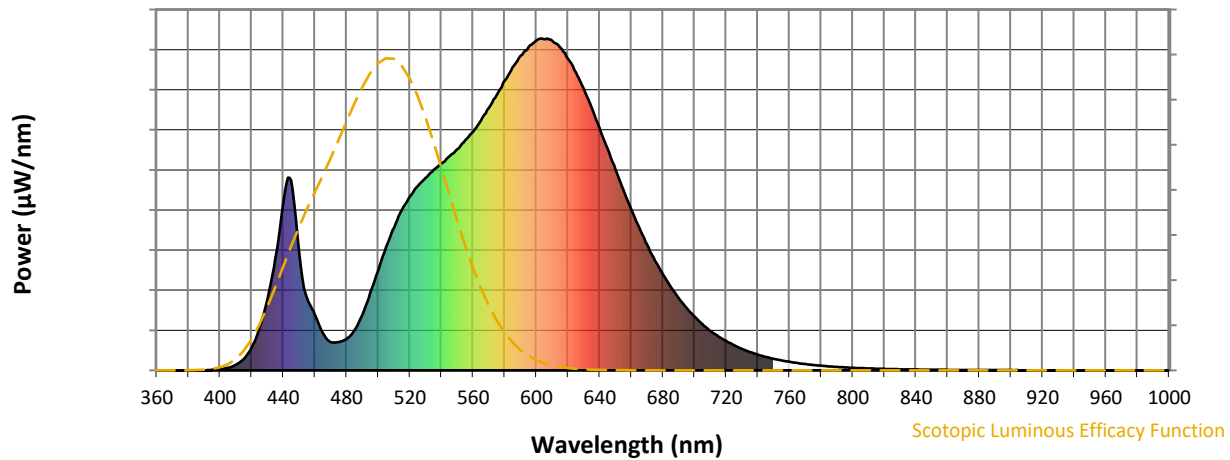


Photopic Lumens: NR

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



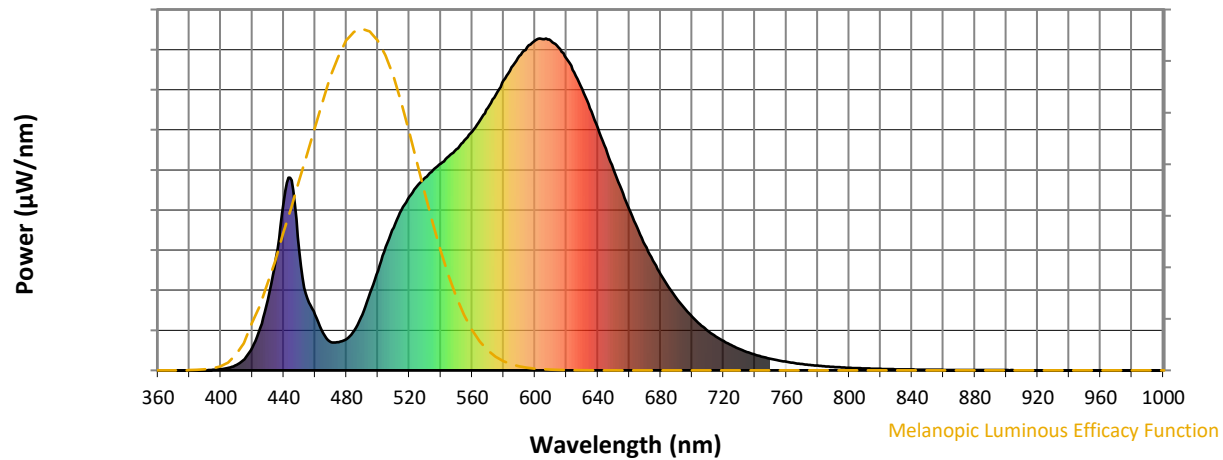
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power 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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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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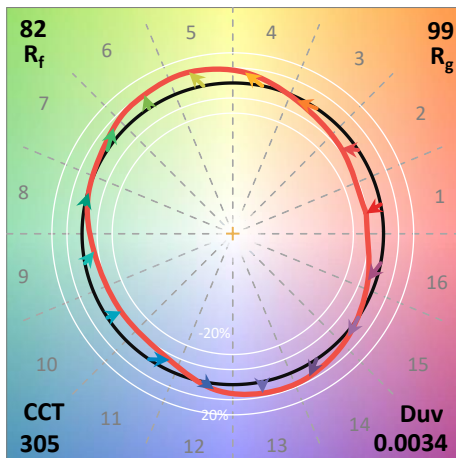
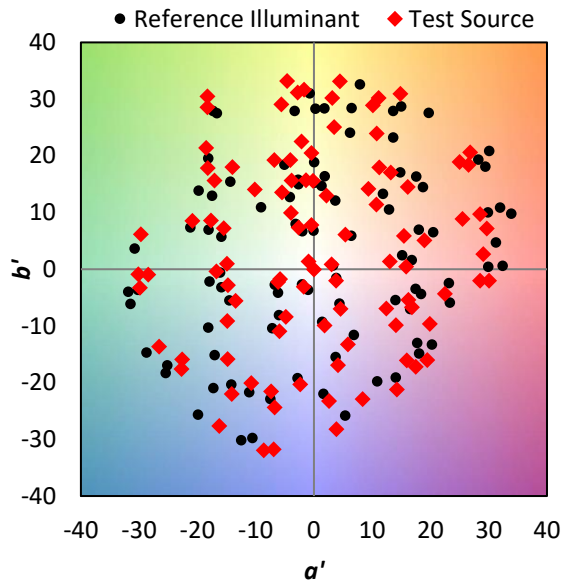
TM-30-18

Summary

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



Color Vector Graphics

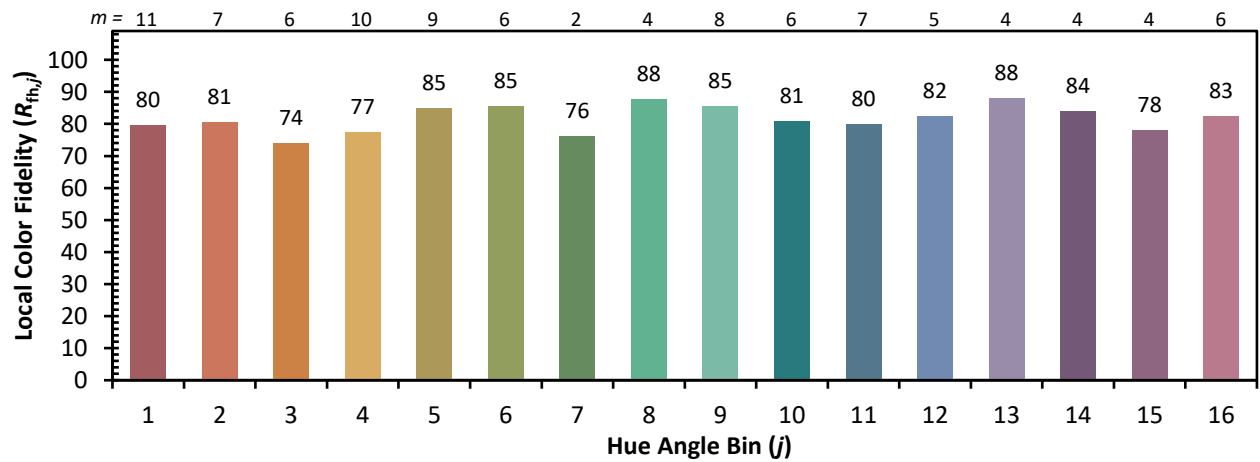
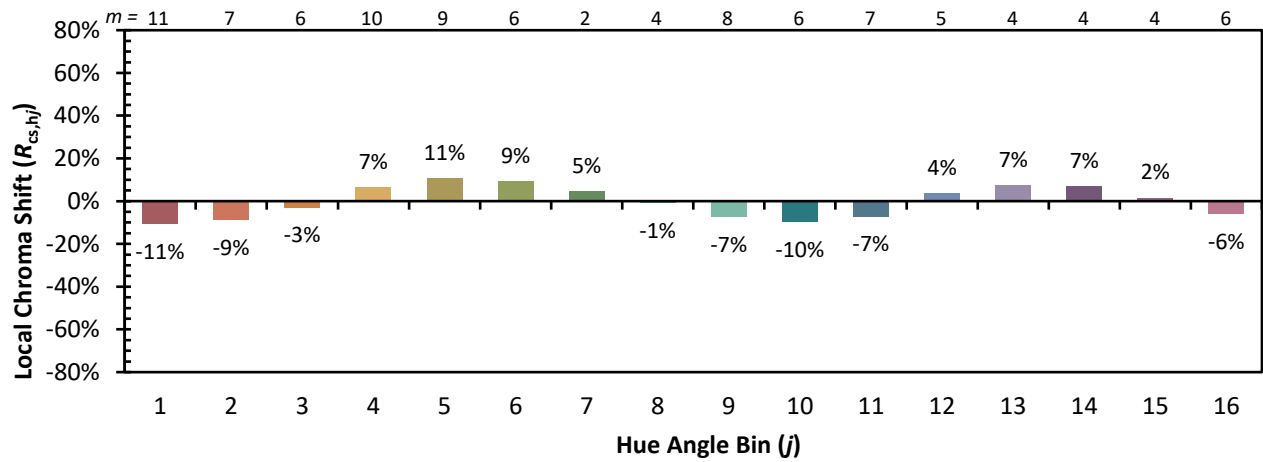


Individual Sample Fidelity Index ($R_{f,i}$)

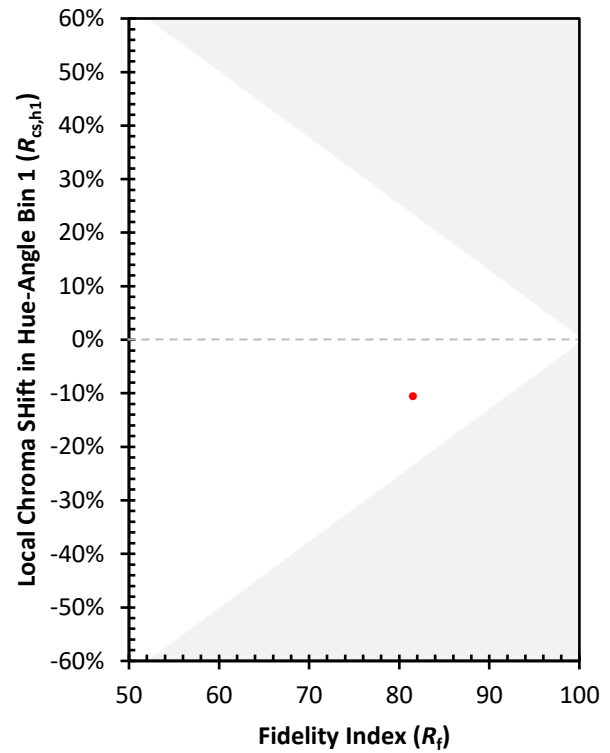
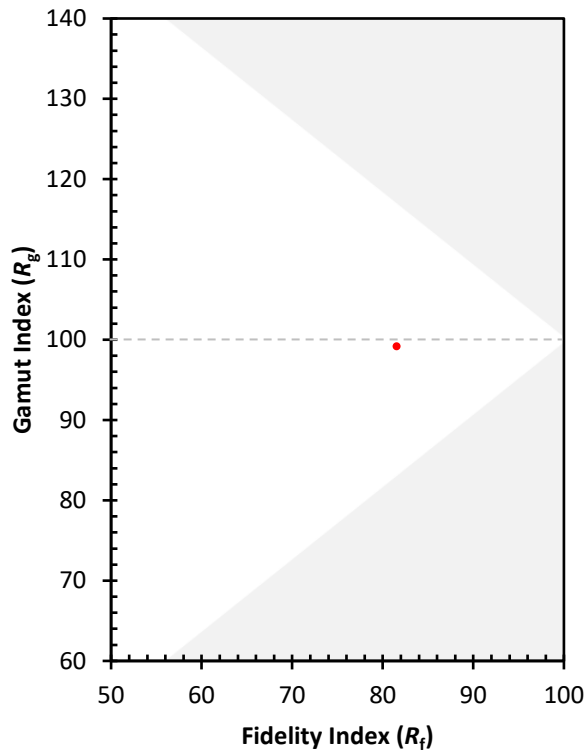
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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