

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: P324950

Luminaire Tested: **GLEON-SA6A-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18132 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

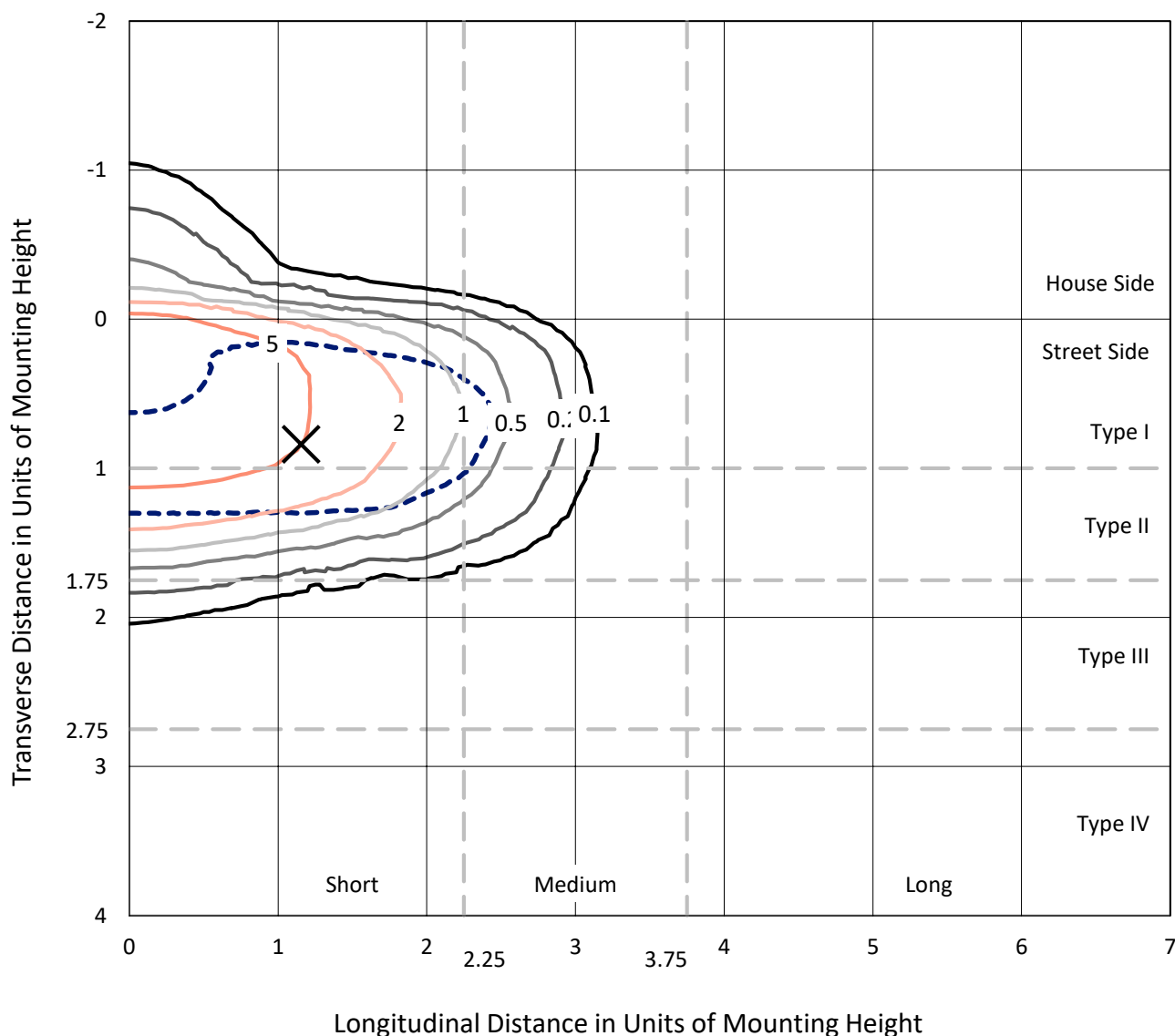
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

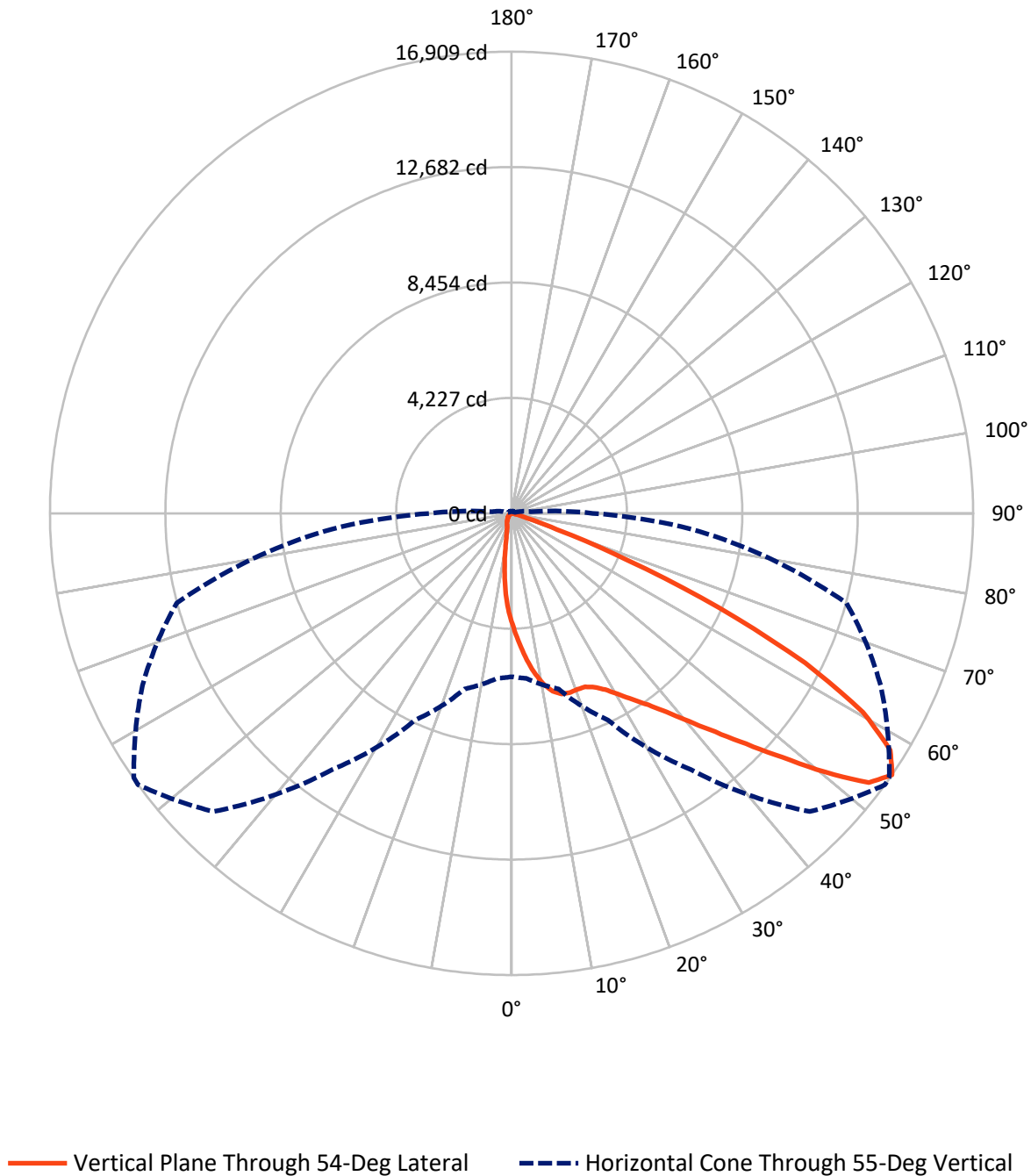
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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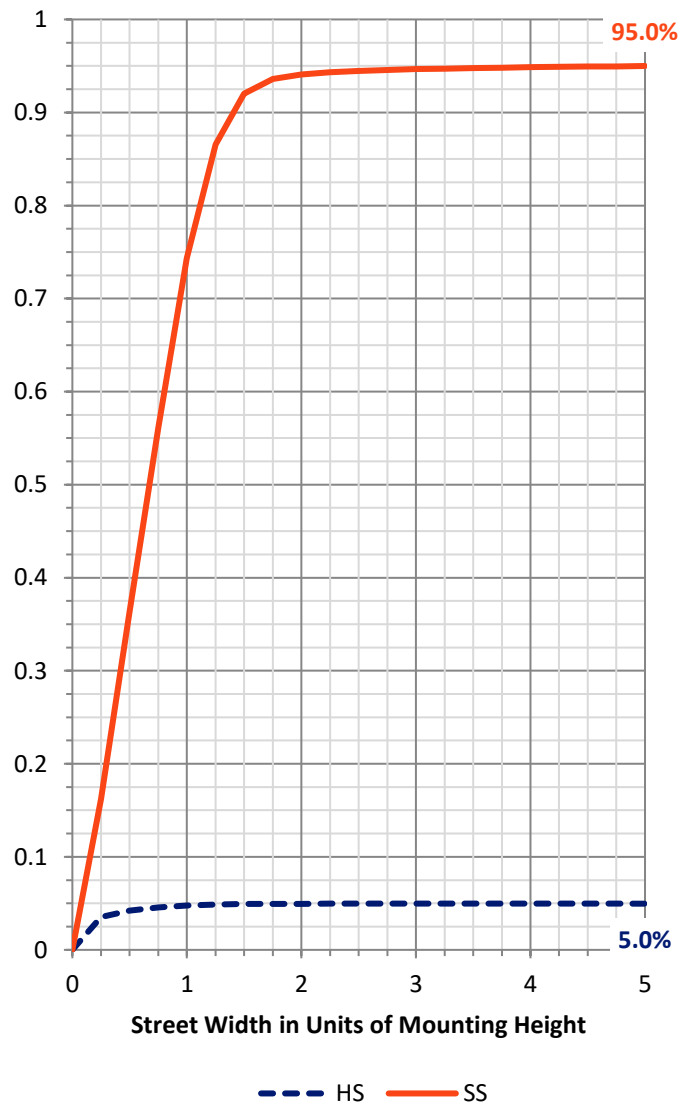
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.7	0.0	904.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17227.3	0.0	17227.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	18132.0	0.0	18132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	2.1
10°-20°	1025.6	5.7
20°-30°	1751.0	9.7
30°-40°	2810.1	15.5
40°-50°	4490.5	24.8
50°-60°	4811.7	26.5
60°-70°	2470.5	13.6
70°-80°	374.2	2.1
80°-90°	24.4	0.1
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°	18132.0	100.0
0°-180°	18132.0	100.0

Coefficient of Utilization



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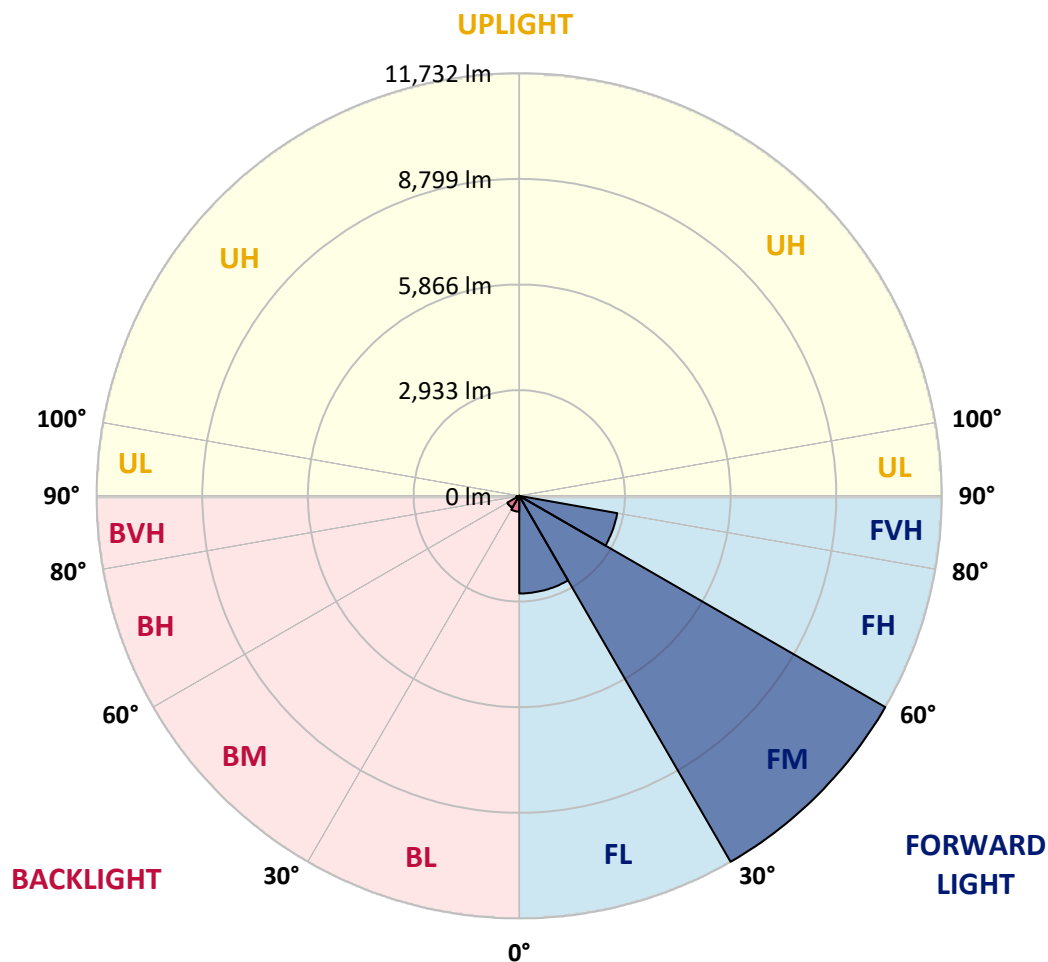
CATALOG NUMBER: GLEON-SA6A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2710.4	14.9			
FM	(30°-60°)	11732.2	64.7			
FH	(60°-80°)	2761.3	15.2			G2/5000
FVH	(80°-90°)	23.4	0.1			G1/100
BL	(0°-30°)	440.1	2.4	B1/500		
BM	(30°-60°)	380.2	2.1	B1/1000		
BH	(60°-80°)	83.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8
2.5°	5096.0	5020.1	5022.4	4988.0	4861.9	4763.2	4660.6	4636.4	4476.6	4309.1	4147.8
5°	5976.9	5921.3	5908.0	5841.5	5666.1	5480.5	5281.6	5235.4	4923.0	4580.0	4242.5
7.5°	6429.5	6430.3	6419.4	6395.1	6285.5	6105.4	5862.6	5814.1	5388.9	4874.4	4341.2
10°	6298.0	6327.7	6388.8	6469.5	6553.3	6530.5	6348.1	6304.2	5842.3	5186.1	4450.8
12.5°	5991.0	5994.9	6063.1	6195.4	6436.6	6684.0	6687.2	6672.3	6275.3	5511.8	4571.4
15°	5838.3	5853.2	5878.3	5963.6	6192.3	6588.5	6872.0	6893.1	6672.3	5857.9	4699.8
17.5°	5938.6	5959.7	5938.6	5948.7	6081.1	6437.4	6904.1	6958.1	7019.2	6200.1	4821.2
20°	6210.3	6229.9	6192.3	6150.8	6176.6	6393.5	6881.3	6954.2	7290.9	6503.9	4923.0
22.5°	6576.7	6584.6	6527.4	6459.3	6440.5	6542.3	6900.1	6975.3	7508.6	6778.8	4987.2
25°	6980.0	6987.1	6915.8	6837.5	6792.9	6834.4	7054.4	7110.8	7700.4	7041.1	5024.0
27.5°	7419.3	7425.6	7336.3	7240.0	7188.3	7189.9	7308.9	7369.2	7904.8	7340.2	5053.7
30°	7883.6	7880.5	7798.3	7664.4	7598.6	7597.0	7675.3	7736.4	8200.8	7723.9	5094.5
32.5°	8405.1	8398.9	8282.2	8116.2	8041.8	8052.8	8122.5	8157.7	8568.0	8132.6	5167.3
35°	9091.9	9073.9	8897.7	8691.7	8554.7	8550.8	8609.5	8637.7	9036.3	8627.5	5288.6
37.5°	9983.0	9966.5	9727.7	9428.6	9235.9	9163.9	9233.6	9269.6	9704.2	9262.6	5483.6
40°	10861.5	10845.1	10703.4	10429.3	10132.5	9959.5	10014.3	10052.7	10538.1	10033.1	5729.5
42.5°	11467.6	11481.7	11531.0	11553.7	11275.8	10912.4	10937.5	10977.4	11414.4	10856.8	6010.6
45°	11627.3	11657.9	11936.6	12484.0	12588.1	12304.7	12042.4	12064.3	12304.7	11680.6	6291.7
47.5°	11147.3	11203.7	11741.7	12759.6	13641.3	13841.8	13345.3	13316.4	13159.0	12347.0	6491.4
50°	10056.6	10108.3	10805.2	12310.9	13960.8	15309.2	14906.7	14821.4	13908.3	12745.5	6561.9
52.5°	8478.0	8540.6	9106.7	10898.3	13358.6	15963.8	16385.1	16313.8	14458.0	12776.8	6573.6
55°	5987.1	6063.1	6662.1	8352.7	11450.4	15443.1	16908.9	16887.8	14914.5	12693.8	6598.7
57.5°	3364.7	3419.5	4065.5	5354.4	8386.3	13451.0	16361.6	16501.8	15190.2	12549.8	6636.3
60°	1494.0	1508.9	1843.3	2665.5	4909.7	10279.7	14794.7	15031.2	14953.7	12357.1	6699.7
62.5°	828.5	815.9	815.9	1108.0	2133.8	6363.8	12064.3	12455.0	13944.4	12129.3	6702.8
65°	649.1	637.4	603.7	608.4	812.8	2824.4	8354.2	9048.8	12027.5	11461.3	6477.3
67.5°	550.5	540.3	506.6	493.3	505.1	931.8	4590.2	5311.4	9126.3	9725.3	5610.5
70°	465.1	458.1	440.9	424.4	394.7	460.4	1756.4	2246.5	5623.8	6469.5	3829.8
72.5°	374.3	371.2	377.4	363.3	327.3	307.0	600.6	727.4	2526.1	2887.1	1577.8
75°	322.6	321.0	324.2	310.1	269.4	213.8	305.4	333.6	712.6	706.3	319.5
77.5°	209.9	212.2	268.6	262.3	231.8	142.5	158.2	170.7	216.1	162.1	97.1
80°	133.9	132.3	136.2	217.7	208.3	108.8	79.1	83.0	104.1	79.9	47.0
82.5°	81.4	79.9	89.3	101.8	104.9	76.0	48.5	49.3	65.0	51.7	25.1
85°	7.0	9.4	54.0	50.1	36.0	23.5	23.5	25.1	34.5	30.5	14.1
87.5°	0.0	0.0	9.4	14.1	7.8	8.6	8.6	9.4	13.3	13.3	7.0
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-SA6A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8
2.5°	4064.0	3982.5	3818.1	3659.9	3526.0	3396.8	3249.6	3104.0	3035.8	3008.4	2980.2
5°	4071.0	3903.4	3564.4	3223.0	2869.1	2550.4	2278.6	1999.9	1860.5	1799.4	1771.2
7.5°	4080.4	3825.1	3277.0	2703.8	2133.8	1701.5	1324.1	1081.4	976.4	960.0	919.3
10°	4082.0	3730.4	2943.4	2130.6	1430.6	1025.8	789.3	664.0	617.8	610.0	596.7
12.5°	4085.1	3618.4	2573.1	1577.8	953.7	685.9	570.8	529.3	516.8	516.0	516.0
15°	4094.5	3501.0	2188.6	1137.0	685.2	543.4	501.1	484.7	480.0	482.4	481.6
17.5°	4094.5	3362.4	1811.2	847.2	553.6	488.6	465.1	454.2	452.6	454.9	455.7
20°	4064.8	3194.0	1465.1	659.3	491.0	453.4	432.2	422.1	418.1	419.7	420.5
22.5°	3993.5	2987.3	1183.2	545.8	449.5	421.3	398.6	382.9	376.6	377.4	377.4
25°	3882.3	2742.2	925.6	472.2	415.8	386.8	360.2	342.2	338.3	337.5	339.1
27.5°	3739.8	2471.3	736.8	415.8	375.9	348.5	321.8	307.0	303.8	304.6	305.4
30°	3599.6	2190.2	581.0	368.0	331.2	305.4	285.0	278.0	278.0	280.3	281.1
32.5°	3471.2	1920.0	459.6	326.5	291.3	267.8	256.1	255.3	259.2	260.8	261.5
35°	3360.8	1670.2	380.6	294.4	260.0	239.6	235.7	238.8	243.5	246.7	247.4
37.5°	3282.5	1447.1	332.8	267.8	235.7	219.3	218.5	224.7	231.0	238.0	239.6
40°	3249.6	1258.3	299.9	244.3	216.1	203.6	201.2	209.9	221.6	231.8	233.3
42.5°	3222.2	1104.1	271.7	221.6	200.5	182.4	181.7	192.6	206.7	216.9	219.3
45°	3198.7	980.4	245.9	197.3	180.1	156.6	159.0	173.1	184.0	195.0	197.3
47.5°	3150.2	878.6	217.7	171.5	148.8	133.9	138.6	151.1	159.7	176.2	178.5
50°	3063.2	795.6	188.7	140.2	121.4	115.9	122.9	131.6	142.5	156.6	158.2
52.5°	3004.5	732.9	163.7	117.5	100.2	101.8	108.8	112.0	118.2	123.7	122.2
55°	2970.8	698.5	143.3	101.8	85.4	90.0	91.6	87.7	84.6	79.1	76.7
57.5°	2966.9	667.1	127.6	88.5	75.2	77.5	72.0	58.7	47.8	41.5	39.9
60°	2960.7	628.8	115.1	74.4	66.6	63.4	51.7	32.1	22.7	21.1	21.1
62.5°	2892.5	569.3	105.7	62.6	56.4	47.8	29.8	14.9	12.5	13.3	13.3
65°	2675.6	486.3	96.3	50.9	44.6	34.5	14.9	8.6	4.7	5.5	5.5
67.5°	2274.7	387.6	86.1	39.2	33.7	21.9	8.6	3.9	0.0	0.0	0.0
70°	1523.0	240.4	72.8	27.4	21.9	13.3	6.3	0.8	0.0	0.0	0.0
72.5°	584.1	130.0	58.7	16.4	14.1	9.4	3.9	0.0	0.0	0.0	0.0
75°	131.6	85.4	40.7	11.7	10.2	6.3	1.6	0.0	0.0	0.0	0.0
77.5°	50.1	61.9	23.5	7.8	7.0	3.9	0.0	0.0	0.0	0.0	0.0
80°	24.3	36.8	11.0	4.7	3.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	12.5	14.1	4.7	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	7.0	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.3	0.8	0.8	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

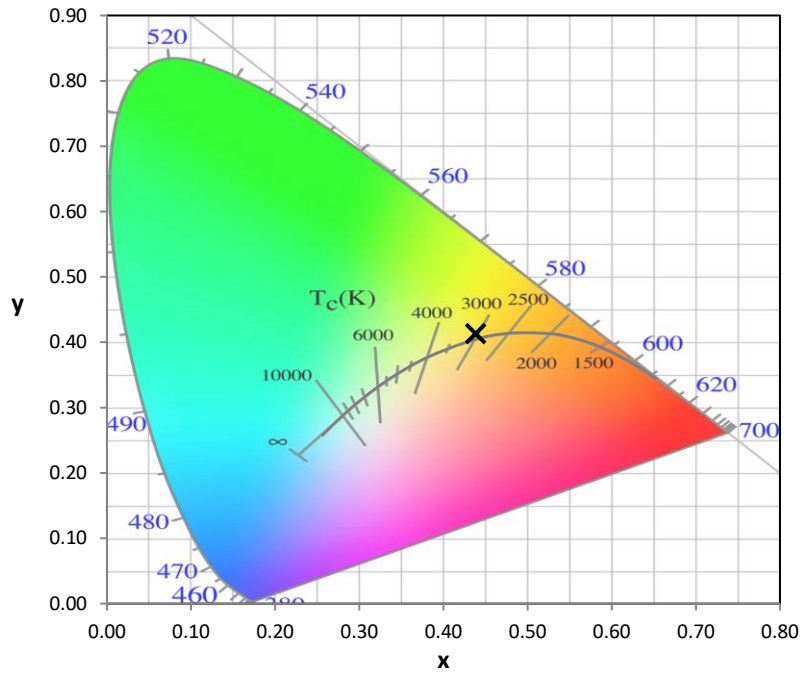
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

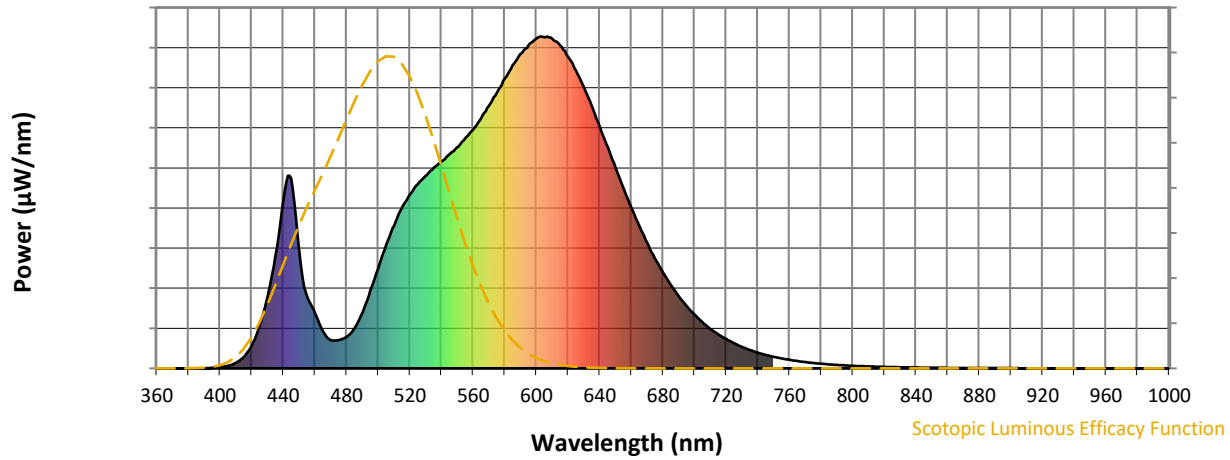


Photopic Lumens: NR

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



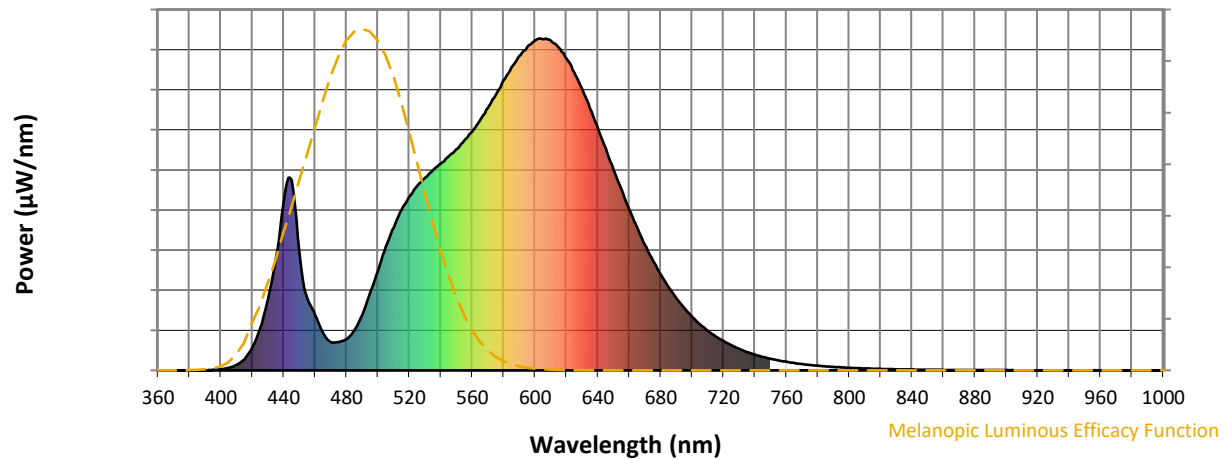
Scotopic Lumens: NR

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

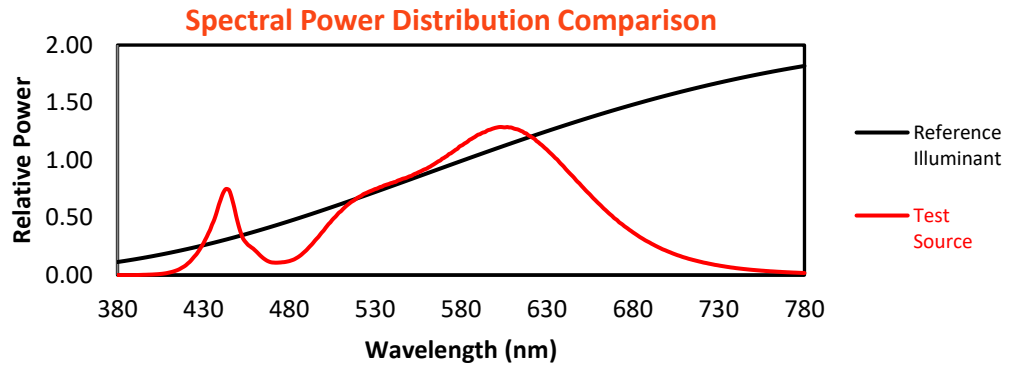
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	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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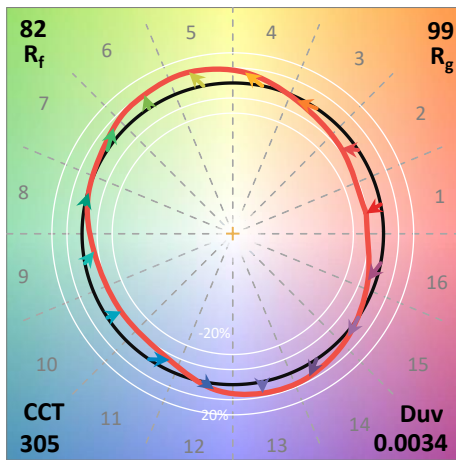
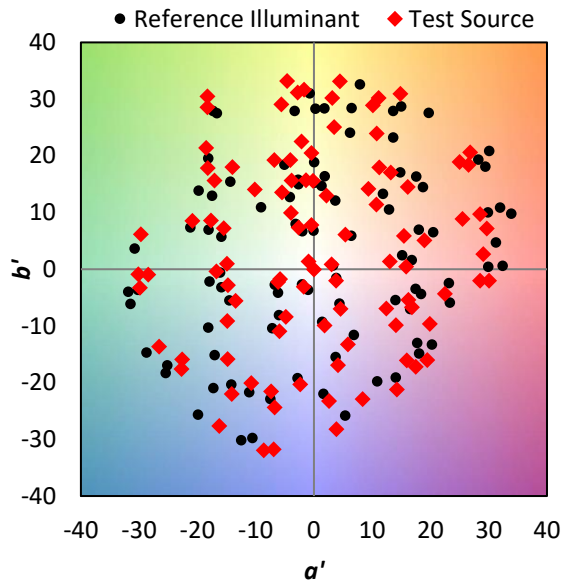
TM-30-18

Summary

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



Color Vector Graphics

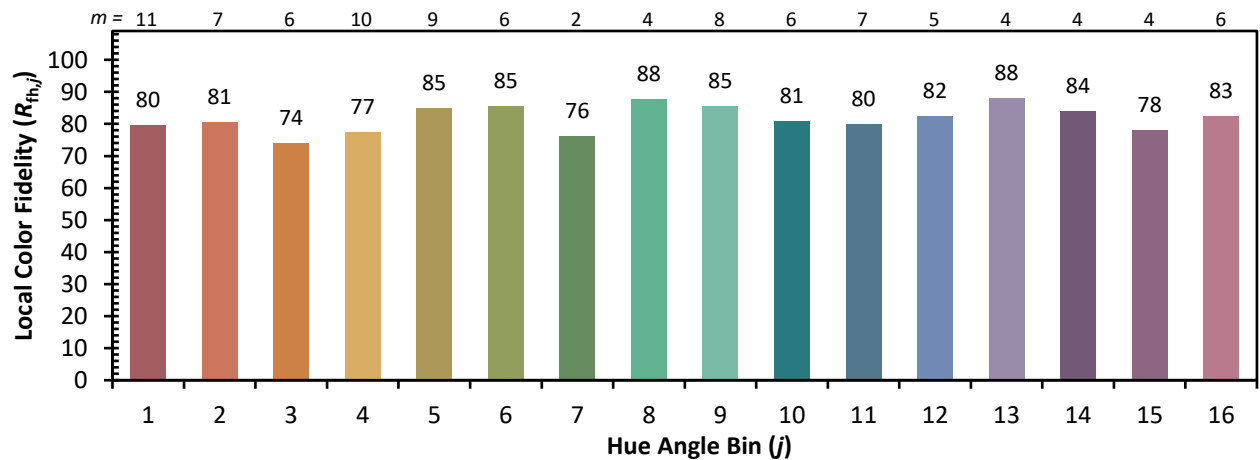
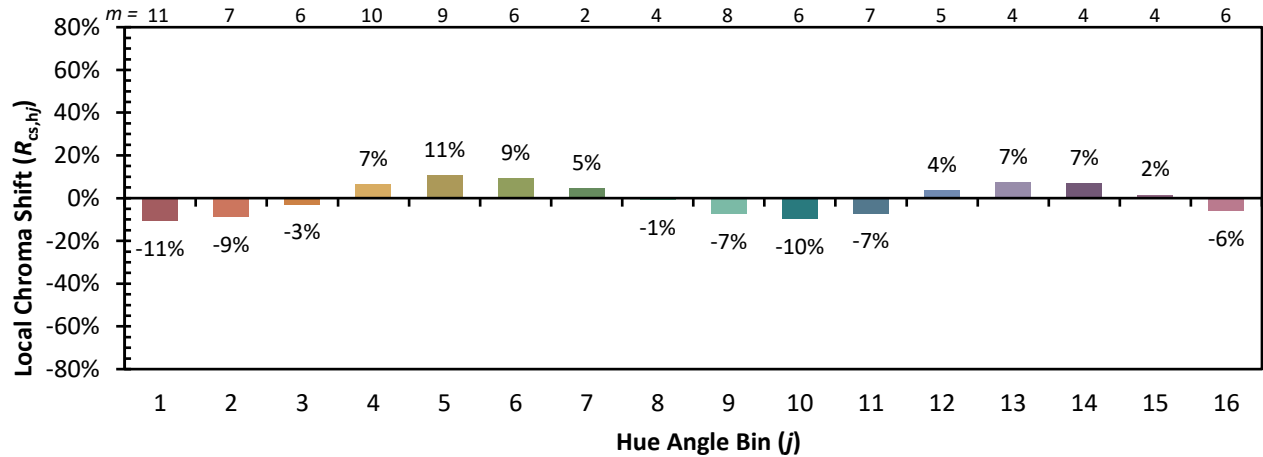


Individual Sample Fidelity Index ($R_{f,i}$)

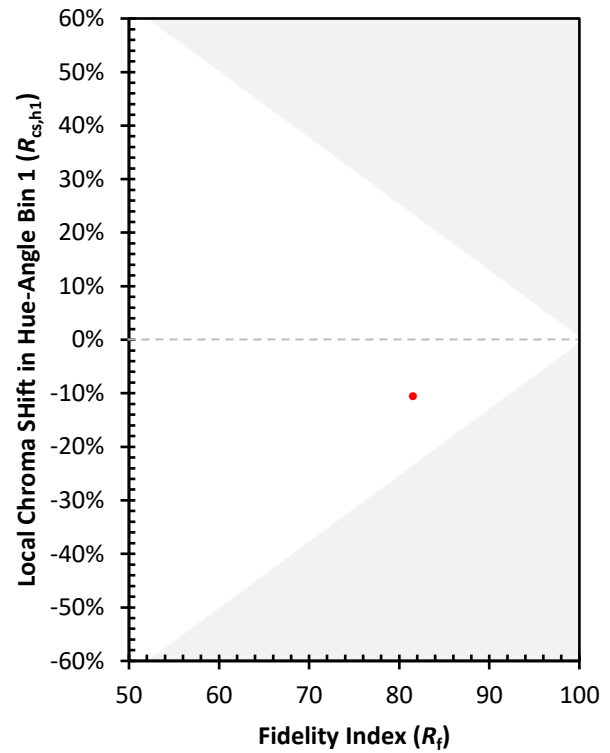
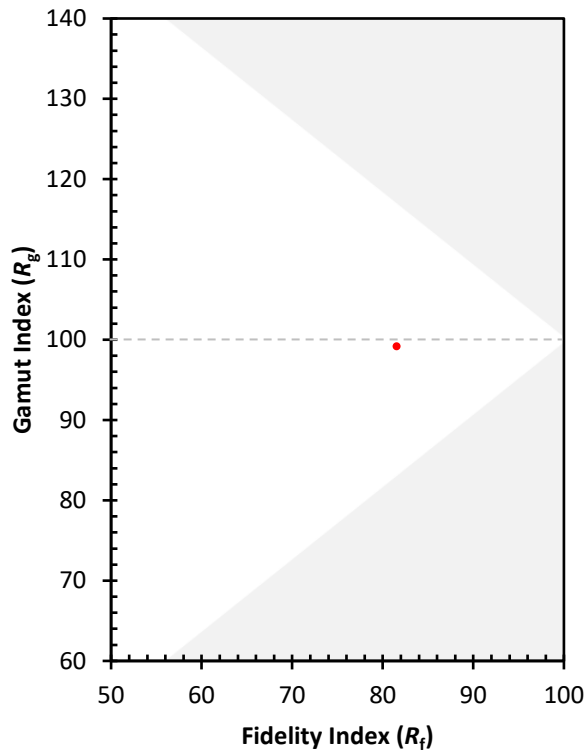
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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