

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P322089

Luminaire Tested: **GLEON-SA5C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19984 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

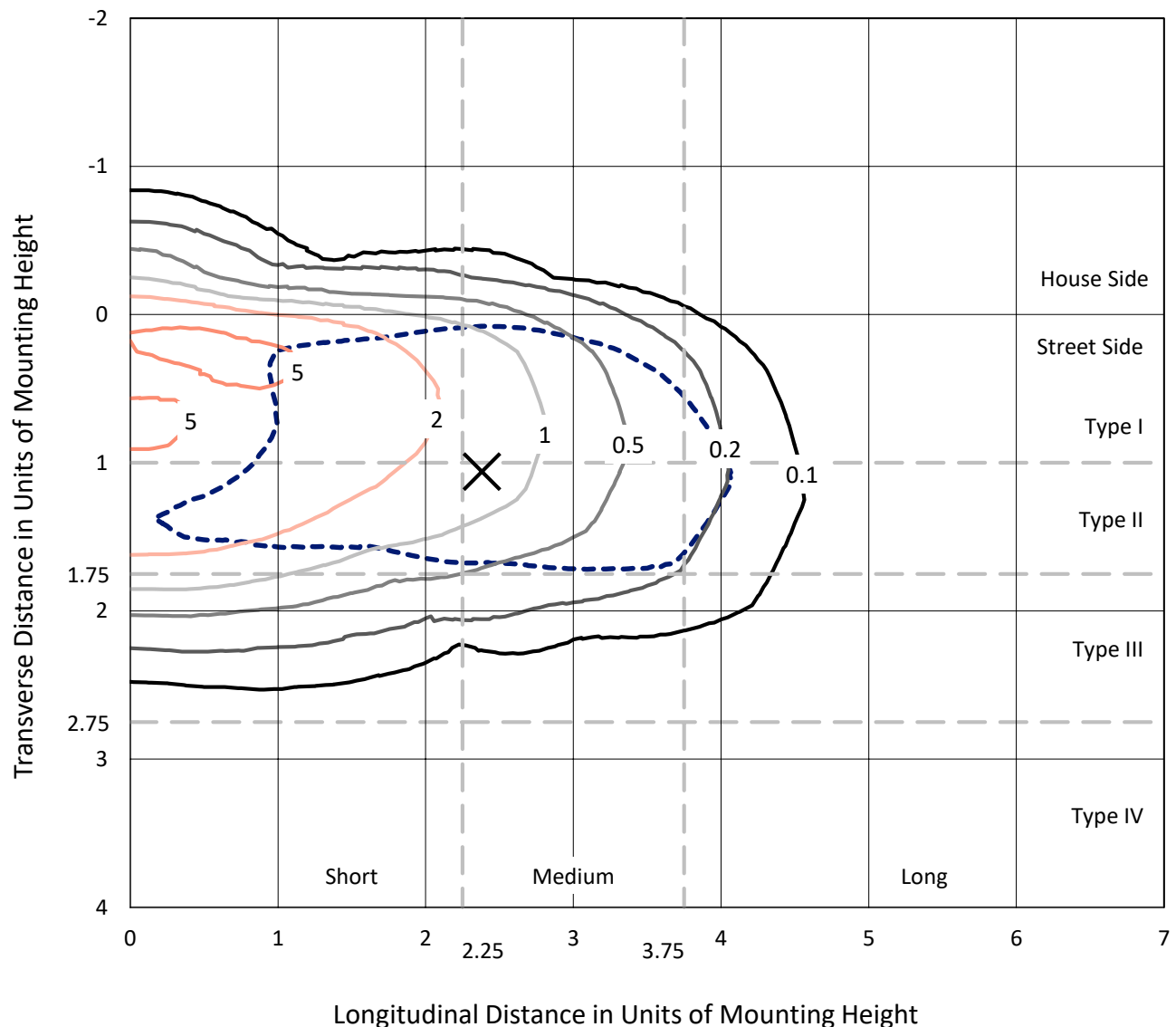
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

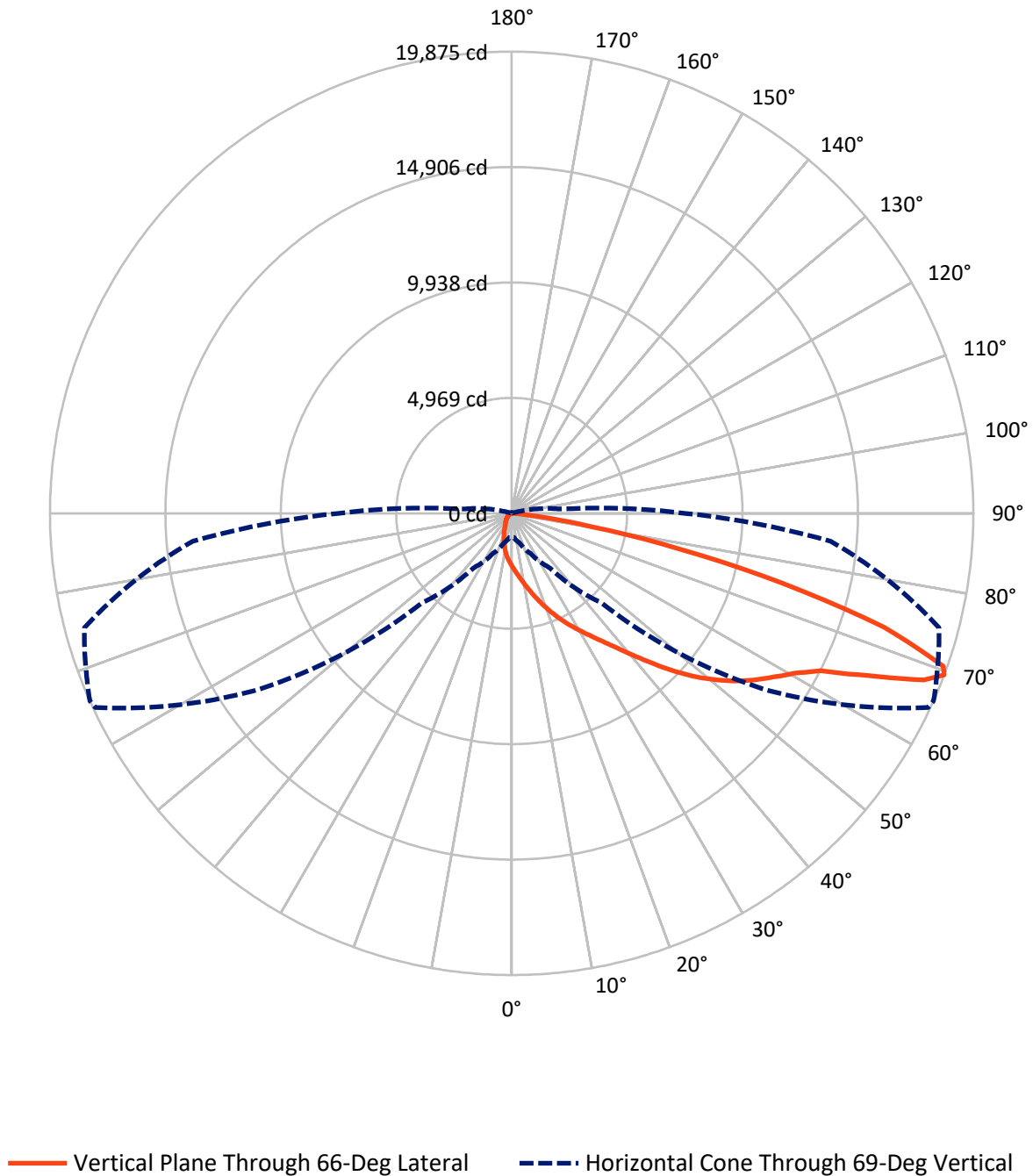
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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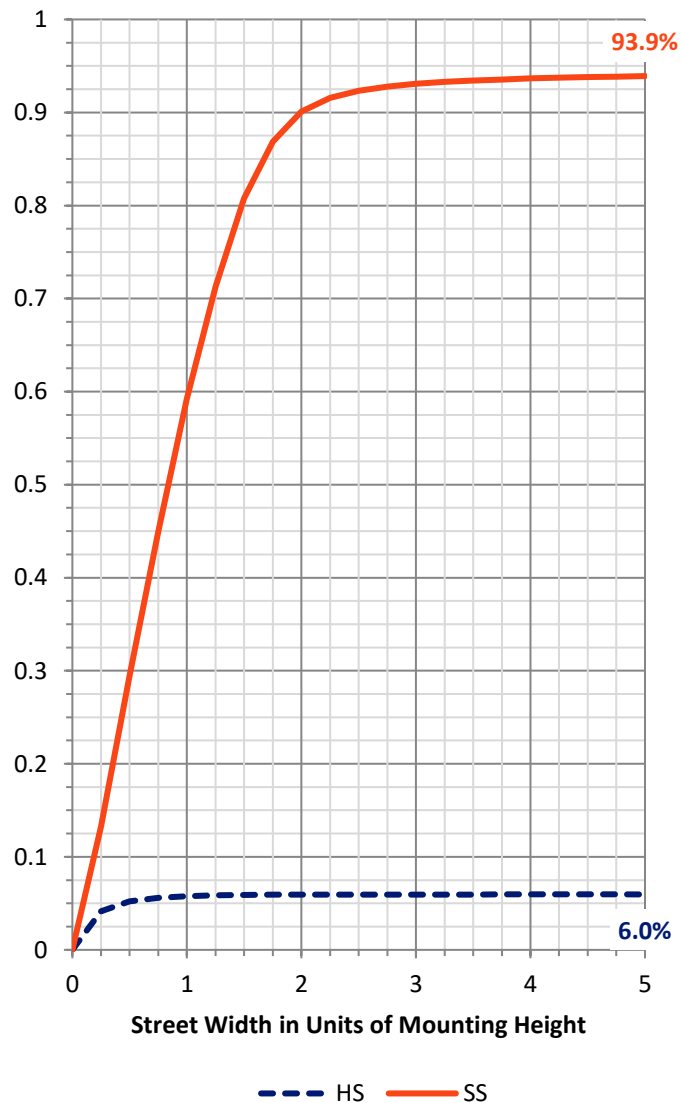
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.8	0.0	1198.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	18785.2	0.0	18785.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	19984.0	0.0	19984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.1
10°-20°	654.3	3.3
20°-30°	1139.3	5.7
30°-40°	1998.9	10.0
40°-50°	3345.9	16.7
50°-60°	4918.2	24.6
60°-70°	5049.7	25.3
70°-80°	2492.9	12.5
80°-90°	164.8	0.8
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°	19984.0	100.0
0°-180°	19984.0	100.0

Coefficient of Utilization



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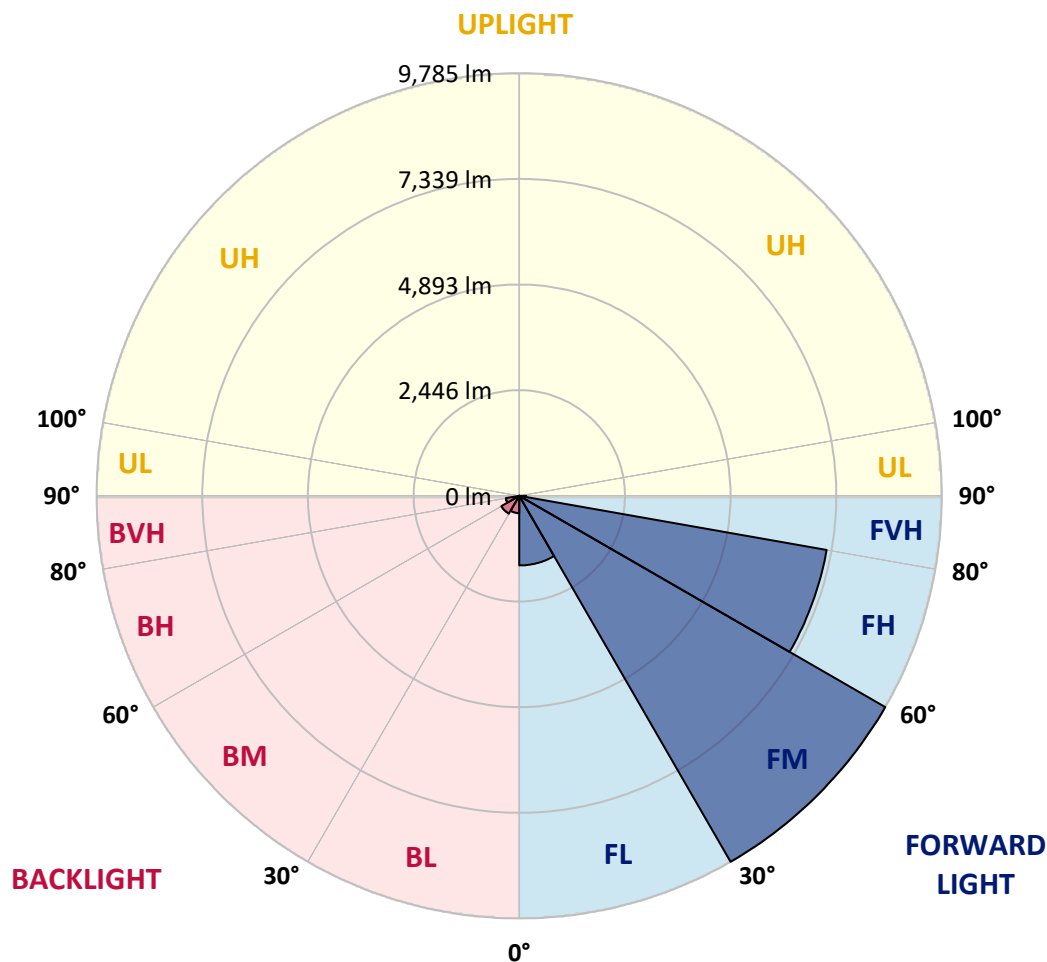
CATALOG NUMBER: GLEON-SA5C-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.5	8.1			
FM	(30°-60°)	9785.1	49.0			
FH	(60°-80°)	7226.8	36.2			G3/7500
FVH	(80°-90°)	160.8	0.8			G2/225
BL	(0°-30°)	400.9	2.0	B1/500		
BM	(30°-60°)	478.0	2.4	B1/1000		
BH	(60°-80°)	315.9	1.6	B1/500		G1/500
BVH	(80°-90°)	4.0	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2
2.5°	2676.7	2665.3	2660.6	2639.7	2603.6	2576.1	2522.9	2461.2	2449.8	2390.0	2317.0
5°	3024.1	3014.6	3008.0	2978.5	2941.5	2872.2	2775.4	2660.6	2638.7	2524.8	2378.7
7.5°	3266.1	3283.2	3283.2	3264.2	3217.7	3165.5	3046.9	2890.3	2862.7	2688.1	2461.2
10°	3407.6	3428.5	3444.6	3460.7	3454.1	3433.2	3321.2	3144.6	3111.4	2879.8	2557.1
12.5°	3420.9	3441.7	3487.3	3554.7	3620.2	3667.6	3597.4	3426.6	3388.6	3101.9	2671.0
15°	3346.8	3368.7	3438.9	3569.9	3728.4	3867.0	3889.8	3738.8	3699.9	3366.8	2813.4
17.5°	3217.7	3232.0	3332.6	3513.9	3762.6	4016.9	4154.6	4073.9	4037.8	3669.5	2971.9
20°	3121.9	3132.3	3220.6	3415.2	3741.7	4110.9	4405.2	4429.8	4391.9	3994.2	3143.7
22.5°	3286.1	3305.1	3307.9	3400.0	3684.7	4157.4	4625.4	4780.1	4751.6	4338.7	3312.6
25°	3735.0	3756.9	3684.7	3627.8	3733.1	4178.3	4814.3	5138.9	5116.1	4709.8	3482.6
27.5°	4328.3	4351.1	4258.0	4088.1	3986.6	4257.1	4982.3	5503.4	5502.4	5102.8	3665.7
30°	4911.1	4933.9	4838.9	4669.0	4435.5	4480.1	5127.5	5884.9	5890.6	5508.1	3860.3
32.5°	5522.3	5550.8	5453.1	5234.7	4990.8	4865.5	5331.6	6268.4	6300.7	5978.0	4079.6
35°	6217.2	6220.9	6083.3	5854.6	5573.6	5380.9	5659.0	6698.4	6775.3	6559.8	4357.7
37.5°	6898.7	6926.2	6813.2	6452.5	6194.4	5976.1	6146.0	7235.6	7344.8	7270.7	4721.2
40°	7403.6	7461.5	7445.4	7056.2	6811.3	6655.7	6750.6	7874.4	8013.0	8098.4	5179.7
42.5°	7720.7	7764.3	7838.4	7603.9	7381.8	7407.4	7464.4	8618.6	8789.4	9041.9	5706.5
45°	8084.2	8105.1	8166.8	8063.3	7913.3	8171.5	8221.8	9456.7	9636.1	10056.6	6291.2
47.5°	8528.4	8577.8	8594.9	8499.9	8431.6	8847.3	8951.7	10218.9	10470.4	11143.4	6910.1
50°	9094.1	9107.4	9136.8	9075.1	9006.8	9428.2	9606.7	11019.1	11247.8	12234.0	7520.4
52.5°	9647.5	9695.0	9797.5	9758.6	9731.0	9922.8	10190.4	11740.4	11995.8	13143.3	8129.8
55°	9807.0	9847.8	10201.8	10443.9	10667.9	10532.1	10748.6	12386.8	12663.1	13955.8	8716.4
57.5°	9170.1	9252.6	9865.8	10496.1	11425.3	11479.4	11515.5	13050.3	13298.1	14578.5	9326.7
60°	7560.2	7576.4	8582.5	9663.6	11300.0	12306.2	12635.5	13763.2	13971.0	15158.5	10057.5
62.5°	4808.6	4972.8	6076.7	7603.0	9975.0	12186.6	13990.0	14841.4	14917.4	15854.2	11105.4
65°	2290.4	2396.7	3192.1	4697.5	7225.2	10655.5	14925.0	16792.0	16826.2	17233.4	12505.5
67.5°	1268.1	1319.4	1698.1	2528.6	4223.9	7535.6	14547.2	19102.3	19134.6	18642.0	13733.7
69°	991.9	1035.6	1333.6	1906.0	2863.7	5416.0	13164.2	19779.1	19875.0	19045.4	13777.4
70°	841.9	884.6	1148.5	1609.8	2302.7	4184.9	11717.7	19611.1	19712.6	19007.4	13451.8
72.5°	515.4	540.1	765.0	1133.3	1543.4	2105.3	7226.1	16585.1	16756.9	17435.5	11561.1
75°	347.4	360.7	478.4	782.1	1103.9	1084.0	3754.0	11690.1	12062.2	13562.9	8538.9
77.5°	248.7	261.0	320.8	505.9	773.6	715.7	1700.0	7265.0	7344.8	8134.5	4656.7
80°	141.4	152.8	226.9	300.9	524.9	477.4	675.8	3470.2	3510.1	3488.2	1554.8
82.5°	74.0	83.5	124.3	198.4	337.0	312.3	281.0	1161.8	1167.5	971.0	340.8
85°	14.2	17.1	61.7	135.7	173.7	135.7	114.9	272.4	278.1	245.8	84.5
87.5°	0.0	0.9	24.7	30.4	34.2	35.1	37.0	53.2	57.0	76.9	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322089

CATALOG NUMBER: GLEON-SA5C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2
2.5°	2284.7	2250.5	2185.0	2109.1	2050.2	1992.3	1946.8	1899.3	1882.2	1873.7	1872.7
5°	2307.5	2235.3	2096.7	1954.4	1837.6	1727.5	1648.7	1573.7	1538.6	1522.5	1515.8
7.5°	2345.4	2229.6	2006.6	1789.2	1621.2	1483.6	1374.4	1292.8	1252.0	1234.9	1228.2
10°	2390.0	2222.0	1901.2	1614.6	1400.0	1257.7	1149.5	1068.8	1024.2	1005.2	995.7
12.5°	2442.2	2208.7	1779.7	1438.0	1211.2	1068.8	937.8	838.1	786.9	765.0	754.6
15°	2506.8	2195.5	1652.5	1271.9	1045.1	871.4	728.0	660.6	650.2	646.4	647.3
17.5°	2570.4	2174.6	1513.9	1107.7	870.4	680.6	607.5	603.7	605.6	605.6	605.6
20°	2627.3	2127.1	1363.0	967.2	704.3	574.3	559.1	552.4	547.7	543.9	539.1
22.5°	2672.0	2063.5	1217.8	827.7	575.2	525.8	502.1	481.2	464.2	452.8	447.1
25°	2702.3	1979.0	1084.9	693.9	517.3	478.4	435.7	400.6	374.0	357.8	351.2
27.5°	2725.1	1887.9	966.3	580.9	477.4	423.3	367.3	325.6	298.0	283.8	278.1
30°	2741.2	1784.5	861.9	510.7	432.8	365.4	305.6	264.8	244.9	237.3	233.5
32.5°	2756.4	1669.6	763.1	477.4	391.1	312.3	256.3	225.0	212.6	203.1	200.3
35°	2794.4	1563.3	669.2	442.3	348.4	266.7	220.2	197.4	185.1	179.4	177.5
37.5°	2884.6	1484.5	579.0	406.3	305.6	230.7	192.7	176.5	165.2	159.5	157.6
40°	3029.8	1444.7	503.1	367.3	263.9	203.1	174.6	159.5	147.1	138.6	136.7
42.5°	3243.4	1450.4	449.9	328.4	230.7	181.3	157.6	139.5	126.2	118.6	116.7
45°	3502.5	1492.1	412.9	290.5	203.1	164.2	138.6	119.6	107.3	100.6	98.7
47.5°	3783.4	1559.5	382.5	256.3	181.3	148.1	119.6	99.7	89.2	83.5	82.6
50°	4079.6	1625.0	351.2	223.1	162.3	131.9	100.6	82.6	74.0	69.3	67.4
52.5°	4379.5	1700.9	322.7	192.7	146.2	113.0	83.5	67.4	60.7	57.0	55.1
55°	4702.3	1757.9	295.2	169.0	130.0	95.9	69.3	56.0	50.3	45.6	44.6
57.5°	5081.9	1846.2	266.7	146.2	111.1	79.7	57.0	44.6	39.9	35.1	34.2
60°	5594.5	1949.6	236.3	129.1	91.1	65.5	46.5	36.1	30.4	26.6	25.6
62.5°	6270.3	2064.5	198.4	113.0	74.0	53.2	37.0	28.5	21.8	17.1	17.1
65°	7127.4	2251.5	162.3	94.9	60.7	43.7	28.5	20.9	12.3	7.6	7.6
67.5°	7627.6	2283.7	131.0	77.8	49.4	37.0	23.7	14.2	3.8	0.9	0.0
69°	7467.2	2096.7	111.1	66.4	42.7	35.1	21.8	10.4	1.9	0.0	0.0
70°	7165.4	1917.4	97.8	58.8	38.9	33.2	20.9	7.6	1.9	0.0	0.0
72.5°	5921.0	1364.9	74.0	43.7	28.5	29.4	19.0	4.7	1.9	0.0	0.0
75°	4313.1	829.6	53.2	30.4	18.0	21.8	13.3	1.9	0.9	0.0	0.0
77.5°	2399.5	391.1	33.2	17.1	11.4	13.3	6.6	0.0	0.0	0.0	0.0
80°	779.3	106.3	15.2	9.5	6.6	7.6	2.8	0.0	0.0	0.0	0.0
82.5°	144.3	30.4	8.5	4.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	31.3	12.3	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	3.8	0.9	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
 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

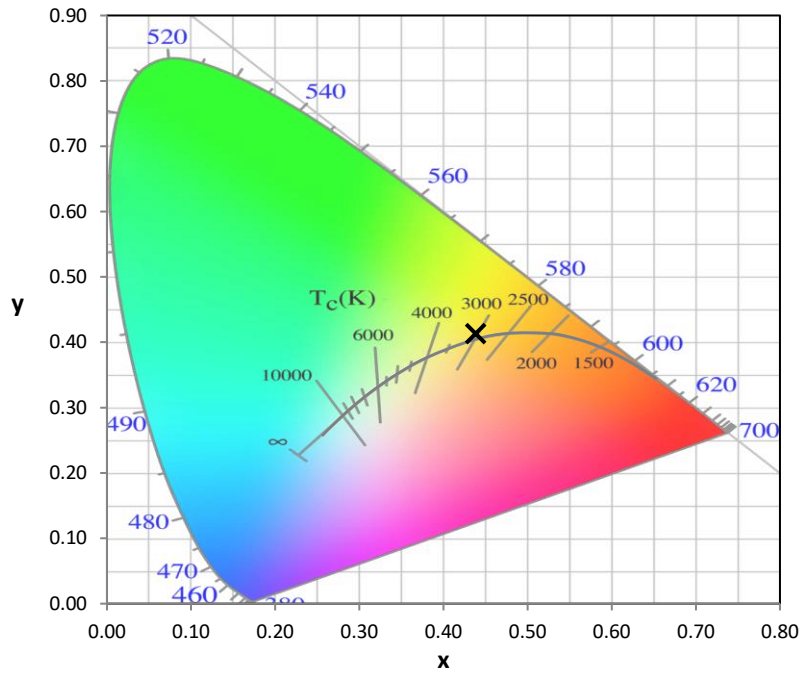
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

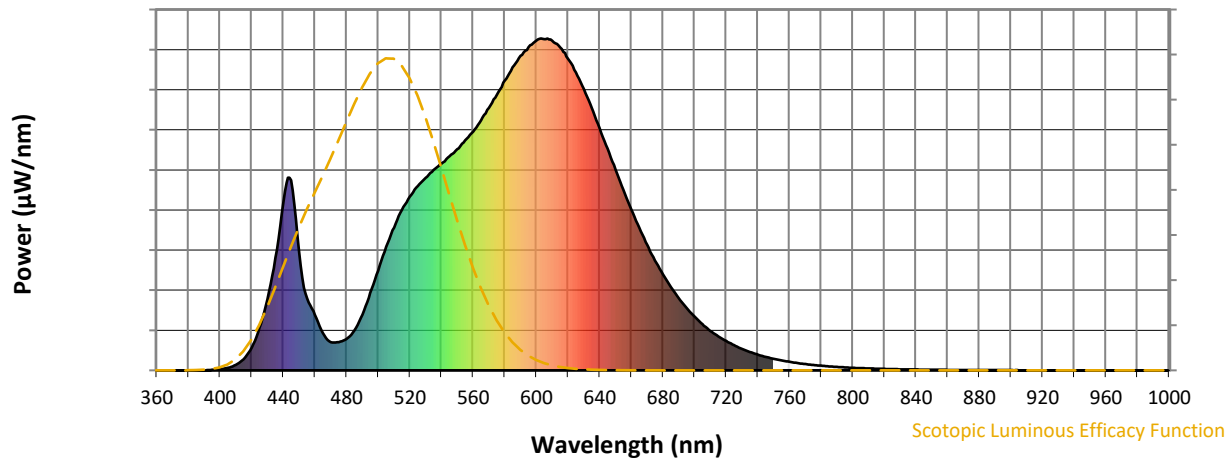


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



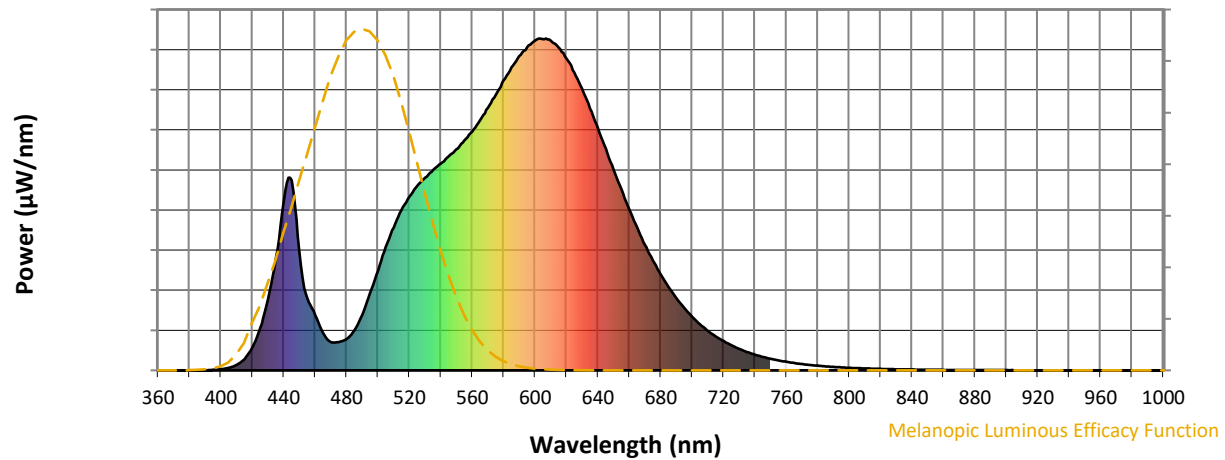
Scotopic Lumens: NR

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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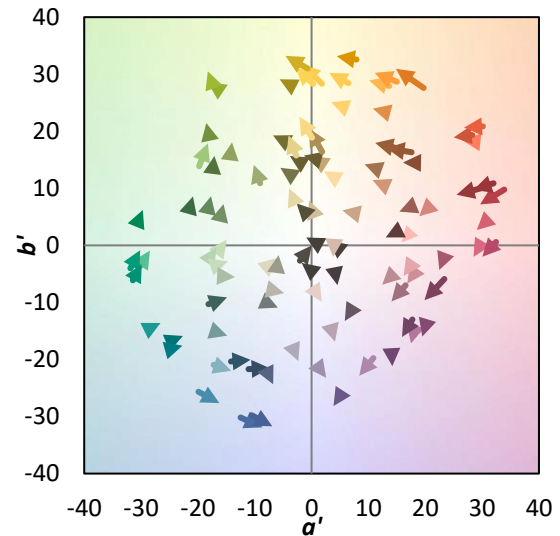
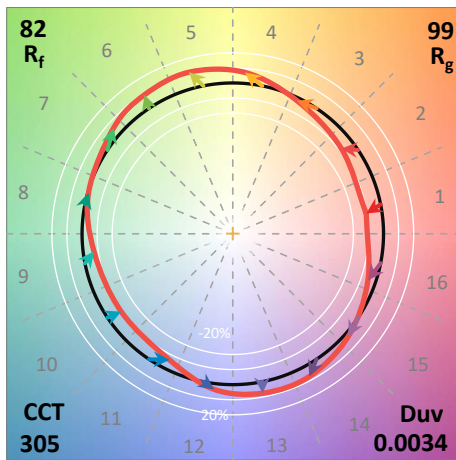
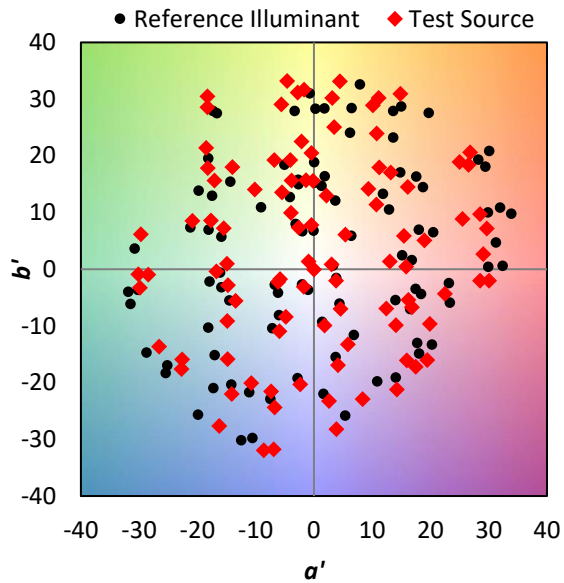
TM-30-18

Summary

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



Color Vector Graphics

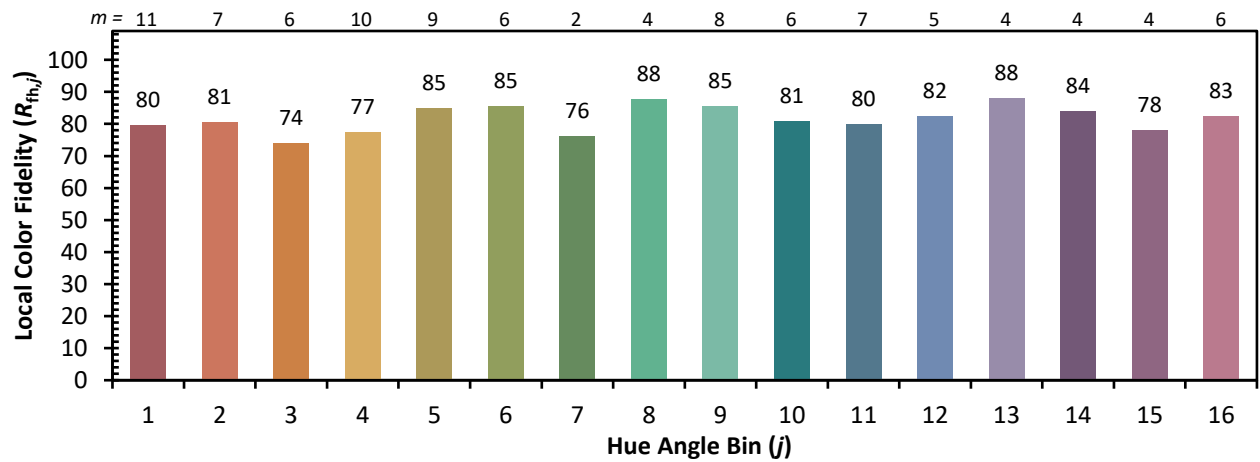
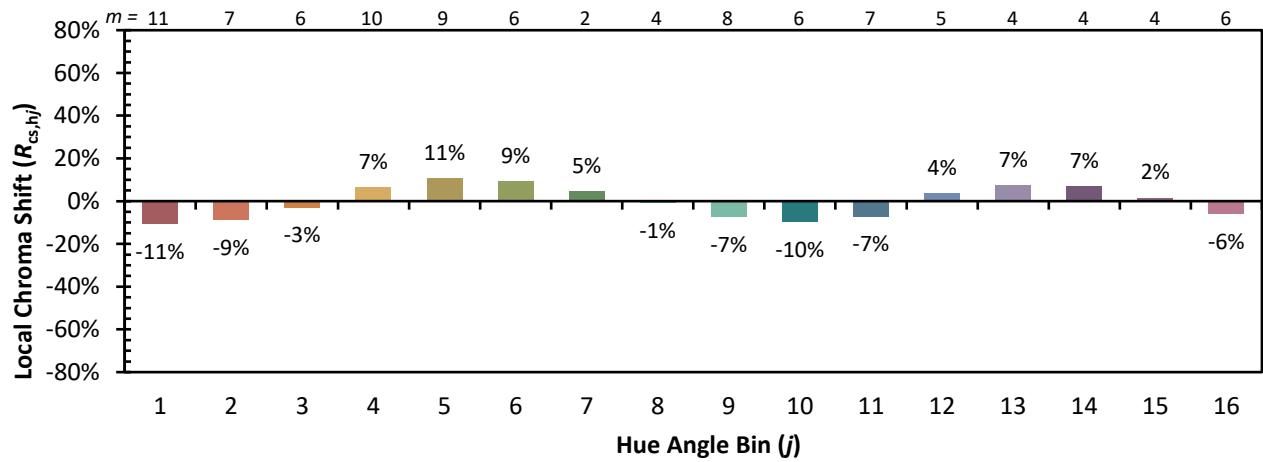


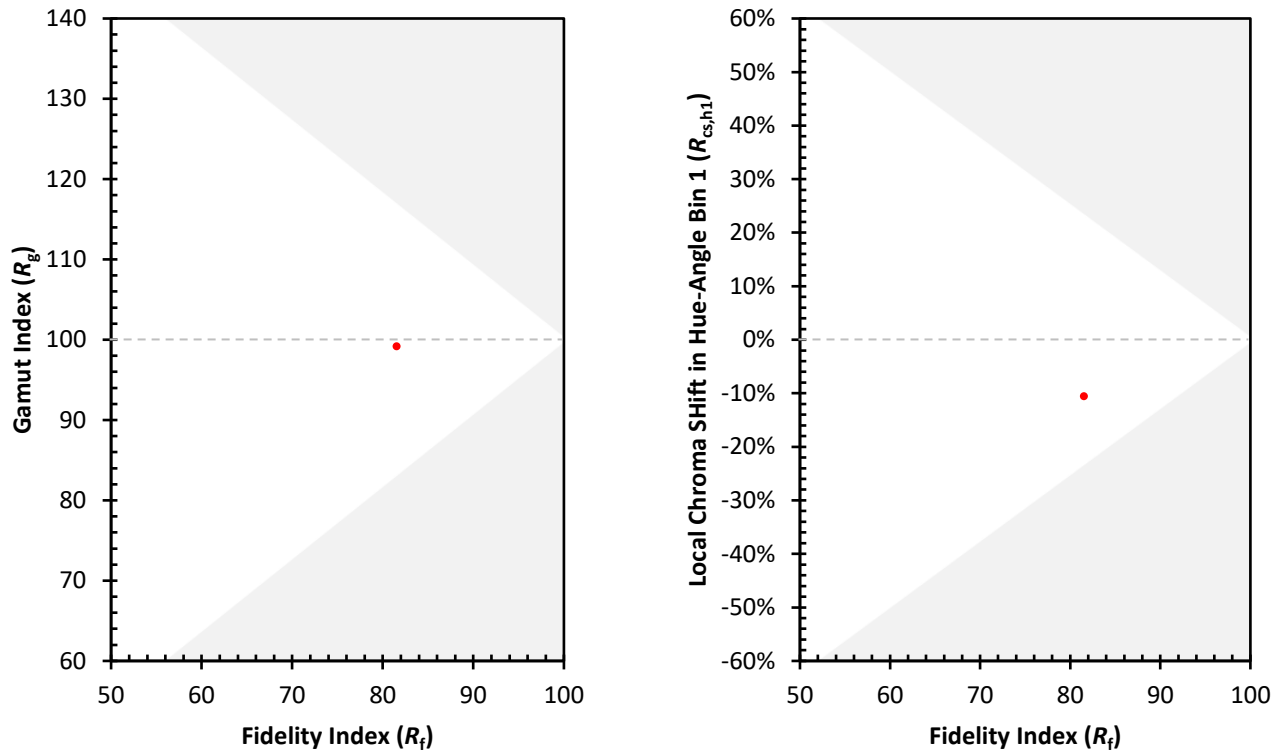
Individual Sample Fidelity Index ($R_{f,i}$)

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)