

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: P318259

Luminaire Tested: **GLEON-SA5D-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30241 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

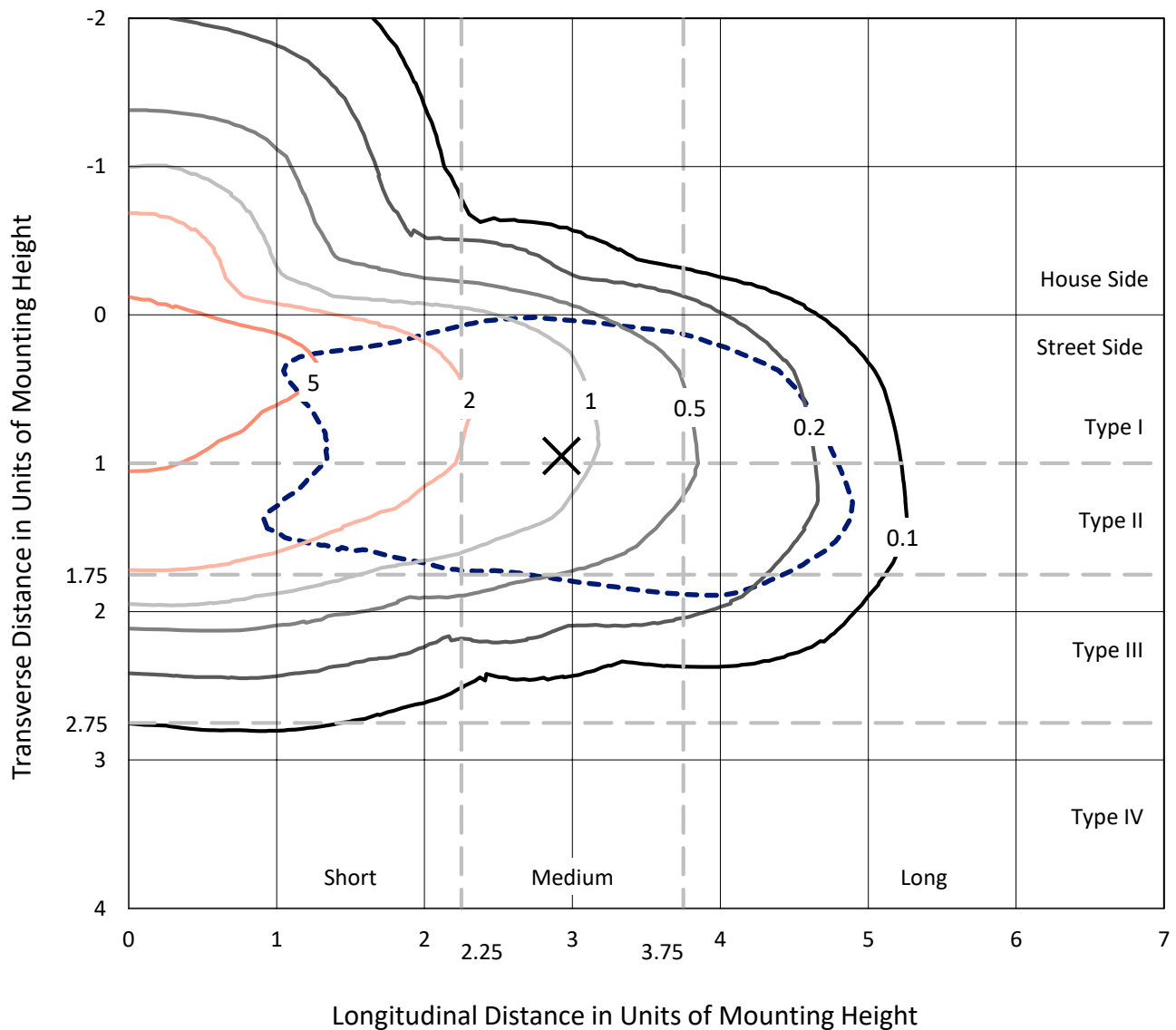
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

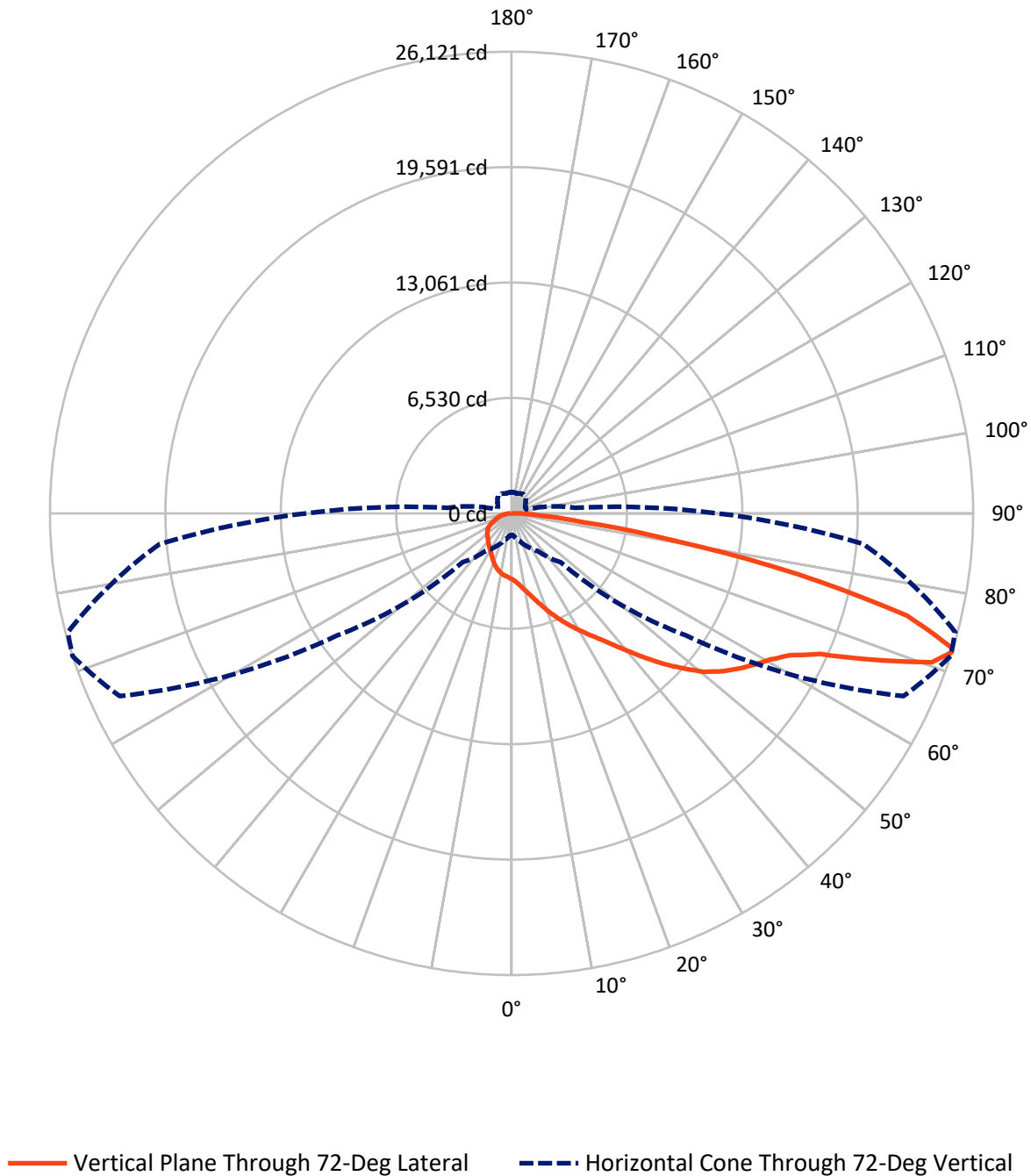
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5609.9	0.0	5609.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24631.1	0.0	24631.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	30241.0	0.0	30241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	1.2
10°-20°	1204.7	4.0
20°-30°	2111.0	7.0
30°-40°	3130.0	10.4
40°-50°	4577.8	15.1
50°-60°	6299.1	20.8
60°-70°	7012.7	23.2
70°-80°	4751.8	15.7
80°-90°	781.0	2.6
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°	30241.0	100.0
0°-180°	30241.0	100.0

Coefficient of Utilization



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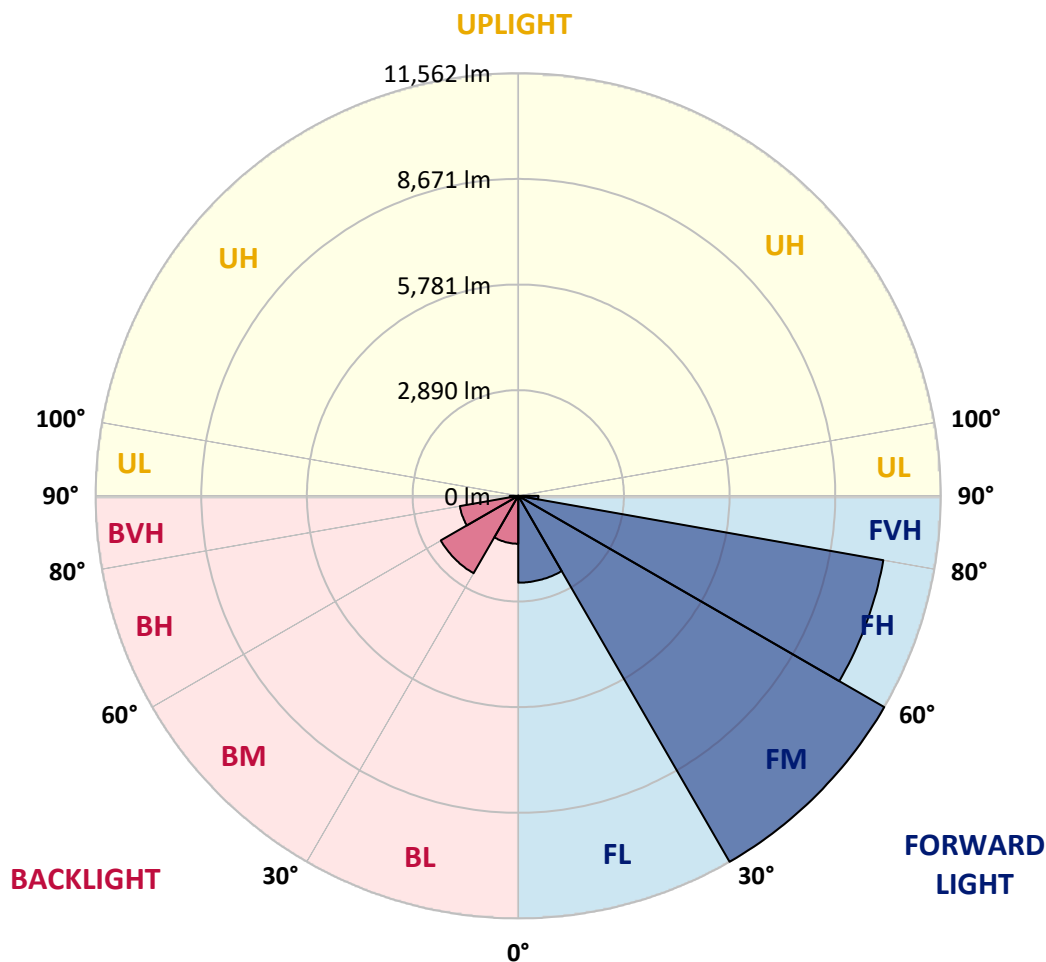
CATALOG NUMBER: GLEON-SA5D-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2377.1	7.9			
FM	(30°-60°)	11561.5	38.2			
FH	(60°-80°)	10141.6	33.5			G4/12000
FVH	(80°-90°)	550.9	1.8			G4/750
BL	(0°-30°)	1311.4	4.3	B3/2500		
BM	(30°-60°)	2445.4	8.1	B2/2500		
BH	(60°-80°)	1623.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	230.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	4109.9	4103.6	4081.8	4081.8	4040.1	4004.7	3938.1	3893.3	3840.2	3821.4	3759.0
5°	4507.6	4509.7	4482.6	4463.9	4402.5	4327.5	4214.0	4110.9	4007.8	3966.2	3838.1
7.5°	4841.9	4837.7	4830.4	4814.8	4757.5	4680.5	4527.4	4374.3	4222.3	4159.8	3939.1
10°	5056.4	5065.7	5072.0	5079.3	5055.3	5000.1	4855.4	4669.0	4470.1	4384.8	4059.9
12.5°	5164.7	5181.3	5210.5	5260.5	5300.0	5293.8	5188.6	4990.8	4754.4	4647.2	4210.9
15°	5228.2	5250.0	5295.9	5385.4	5496.8	5560.3	5532.2	5353.1	5089.7	4957.5	4395.2
17.5°	5267.7	5285.4	5356.3	5476.0	5641.6	5810.2	5884.2	5734.2	5468.7	5317.7	4606.5
20°	5294.8	5308.4	5396.9	5537.4	5751.9	6020.6	6226.8	6189.3	5886.3	5690.5	4827.3
22.5°	5355.2	5366.7	5451.0	5592.6	5830.0	6176.8	6556.8	6613.1	6326.7	6104.9	5063.7
25°	5523.9	5523.9	5594.7	5693.6	5916.5	6312.1	6835.9	7084.8	6776.5	6518.3	5282.3
27.5°	5845.6	5842.5	5868.6	5902.9	6071.6	6449.6	7084.8	7501.3	7243.0	6960.8	5494.7
30°	6226.8	6247.6	6250.7	6234.0	6313.2	6621.4	7314.9	7940.7	7712.6	7408.6	5712.4
32.5°	6717.2	6730.7	6715.1	6659.9	6648.5	6865.0	7540.8	8400.9	8220.8	7876.1	5911.2
35°	7339.9	7313.8	7264.9	7152.4	7045.2	7191.0	7799.1	8861.1	8791.4	8441.5	6185.1
37.5°	8007.3	8008.4	7948.0	7692.8	7545.0	7607.5	8155.2	9382.8	9481.7	9114.2	6536.0
40°	8542.5	8570.6	8608.1	8272.8	8081.2	8167.7	8608.1	9987.8	10298.1	9911.8	6993.1
42.5°	8916.3	8948.6	9054.8	8844.5	8645.6	8806.0	9141.2	10633.4	11214.4	10832.3	7528.3
45°	9312.0	9329.7	9404.7	9314.1	9187.1	9548.4	9742.1	11301.9	12183.8	11813.1	8127.1
47.5°	9728.5	9747.3	9824.3	9763.9	9697.3	10241.9	10368.9	11931.8	13112.6	12890.8	8766.4
50°	10242.9	10255.4	10328.3	10219.0	10239.8	10764.6	10929.1	12509.7	14086.2	13859.2	9407.8
52.5°	10944.7	10947.8	11048.8	10949.9	10852.0	11147.8	11411.2	13054.3	14849.4	14742.2	10049.2
55°	11494.5	11527.8	11858.9	11838.1	11781.9	11495.5	11814.2	13572.9	15530.4	15581.5	10730.2
57.5°	11143.6	11273.8	11944.3	12417.1	12877.3	12360.8	12358.7	14157.0	16163.5	16405.1	11478.9
60°	9759.8	9936.8	10924.9	11973.5	13413.5	13866.5	13489.6	14870.3	16802.9	17221.4	12417.1
62.5°	6970.2	7261.8	8600.8	10275.2	12678.4	14864.0	15790.8	16002.1	17672.3	18166.9	13636.4
65°	3523.6	3744.4	4866.9	6883.8	10129.4	14212.2	18291.9	18480.3	19183.2	19622.6	15513.8
67.5°	2140.8	2224.1	2771.8	3828.7	6210.1	11070.7	19108.2	22611.0	22107.1	22340.3	18190.9
70°	1577.5	1638.9	1980.5	2542.8	3571.5	6496.4	16602.9	25558.8	25227.7	25201.7	20169.3
72°	1228.7	1273.5	1575.4	2054.4	2611.5	3897.4	12033.9	24470.7	26121.1	25989.9	19988.1
72.5°	1165.2	1204.7	1479.6	1933.6	2467.8	3533.0	10819.8	23736.6	26056.6	25997.2	19753.8
75°	917.4	945.5	1095.4	1495.3	1931.5	2004.4	5929.0	18394.9	23115.0	24076.1	17767.1
77.5°	759.1	763.2	842.4	1088.1	1505.7	1417.2	2912.4	12762.8	16551.9	17608.8	12585.7
80°	618.5	623.7	661.2	763.2	1139.1	1048.6	1382.8	7338.8	9267.2	9278.7	5985.2
82.5°	492.5	493.6	535.2	558.1	818.4	749.7	792.4	3445.5	4049.5	3895.4	2151.2
85°	346.7	339.5	522.7	458.2	535.2	481.1	437.3	1364.1	1674.4	1601.5	673.7
87.5°	115.6	119.7	232.2	296.8	312.4	272.8	194.7	522.7	632.0	626.8	213.5
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-SA5D-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3739.2	3705.9	3656.9	3602.8	3560.1	3516.3	3484.1	3467.4	3448.7	3433.0	3451.8
5°	3778.7	3716.3	3612.1	3510.1	3435.1	3368.5	3320.6	3295.6	3272.7	3257.1	3259.2
7.5°	3843.3	3742.3	3567.4	3418.5	3314.3	3242.5	3193.6	3176.9	3162.3	3158.2	3163.4
10°	3912.0	3763.1	3508.0	3310.2	3191.5	3132.1	3110.3	3121.7	3132.1	3141.5	3151.9
12.5°	3990.1	3781.9	3421.6	3183.1	3082.1	3059.2	3081.1	3131.1	3167.5	3189.4	3202.9
15°	4092.2	3798.5	3321.6	3056.1	2988.4	3014.5	3088.4	3174.8	3238.3	3278.9	3285.2
17.5°	4185.9	3797.5	3193.6	2928.0	2912.4	2988.4	3099.8	3221.7	3307.1	3364.3	3375.8
20°	4282.7	3769.4	3044.7	2803.1	2835.4	2960.3	3105.0	3251.9	3354.9	3421.6	3437.2
22.5°	4373.3	3720.4	2881.2	2689.6	2770.8	2922.8	3085.3	3234.2	3337.2	3391.4	3408.1
25°	4434.7	3635.0	2715.6	2593.8	2713.5	2877.0	3020.7	3140.4	3217.5	3244.6	3248.7
27.5°	4466.0	3523.6	2559.4	2510.5	2654.2	2802.0	2901.0	2960.3	2982.2	2980.1	2975.9
30°	4470.1	3376.8	2425.1	2442.8	2585.5	2691.7	2738.5	2727.1	2699.0	2651.1	2655.2
32.5°	4456.6	3211.3	2312.6	2378.2	2498.0	2557.3	2559.4	2504.2	2429.3	2353.3	2332.4
35°	4460.8	3048.8	2213.7	2305.4	2391.8	2417.8	2393.9	2312.6	2210.6	2112.7	2091.9
37.5°	4506.6	2907.2	2128.3	2221.0	2274.1	2280.4	2246.0	2160.6	2085.6	1989.9	1981.5
40°	4615.9	2806.2	2047.1	2126.3	2156.5	2159.6	2110.6	2050.2	2056.5	2005.5	2004.4
42.5°	4812.7	2762.5	1975.3	2027.3	2046.1	2052.3	2014.8	1976.3	2030.5	1997.1	1985.7
45°	5066.8	2772.9	1914.9	1930.5	1964.9	1994.0	1971.1	1924.3	1945.1	1800.3	1752.4
47.5°	5360.4	2839.5	1867.0	1847.2	1906.6	1961.7	1926.3	1855.5	1781.6	1637.9	1610.8
50°	5704.0	2942.6	1823.3	1764.9	1843.0	1918.0	1882.6	1781.6	1670.2	1600.4	1591.0
52.5°	6062.2	3068.6	1779.5	1674.4	1762.9	1884.7	1867.0	1764.9	1627.5	1558.8	1546.3
55°	6468.3	3195.6	1724.3	1569.2	1676.4	1869.1	1859.7	1704.5	1595.2	1556.7	1547.3
57.5°	6973.3	3340.4	1651.4	1459.9	1595.2	1812.8	1783.7	1668.1	1561.9	1532.7	1529.6
60°	7631.4	3553.8	1546.3	1343.2	1496.3	1726.4	1720.2	1615.0	1508.8	1488.0	1483.8
62.5°	8618.5	3906.8	1401.5	1226.6	1385.9	1579.6	1636.9	1543.2	1452.6	1451.5	1453.6
65°	10149.2	4437.9	1244.3	1124.6	1274.5	1455.7	1540.0	1469.2	1395.3	1416.1	1419.2
67.5°	11923.5	4878.3	1090.2	1024.6	1161.0	1338.0	1452.6	1395.3	1319.3	1373.4	1374.5
70°	12513.9	4484.7	954.8	925.7	1043.3	1224.5	1357.8	1314.1	1237.0	1291.2	1286.0
72°	11645.5	3620.5	867.4	850.7	954.8	1130.8	1273.5	1238.1	1162.0	1198.5	1185.0
72.5°	11371.6	3451.8	845.5	832.0	930.9	1106.9	1251.6	1219.3	1143.3	1174.5	1162.0
75°	10144.0	2997.8	726.8	729.9	812.2	990.2	1128.7	1118.3	1040.2	1043.3	1039.2
77.5°	7357.6	2198.1	612.3	633.1	691.4	870.5	1004.8	998.6	913.2	897.6	894.4
80°	3414.3	1121.4	498.8	508.1	568.5	727.8	857.0	848.6	779.9	760.1	748.7
82.5°	1169.3	533.1	374.9	381.1	440.5	586.2	743.5	738.3	681.0	642.5	618.5
85°	417.5	265.5	262.4	256.2	314.5	461.3	647.7	619.6	535.2	456.1	454.0
87.5°	135.4	113.5	135.4	134.3	183.3	312.4	470.7	400.9	388.4	322.8	316.5
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

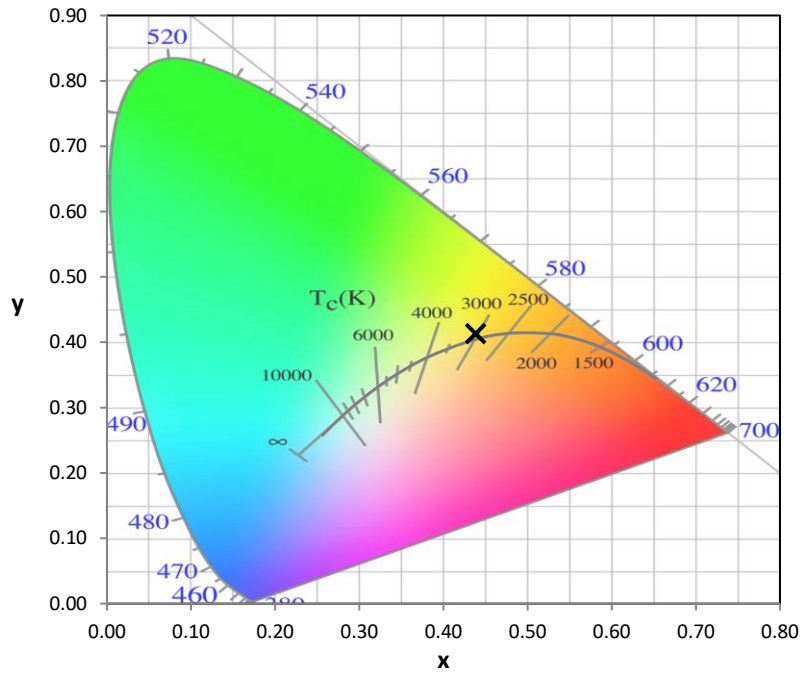
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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



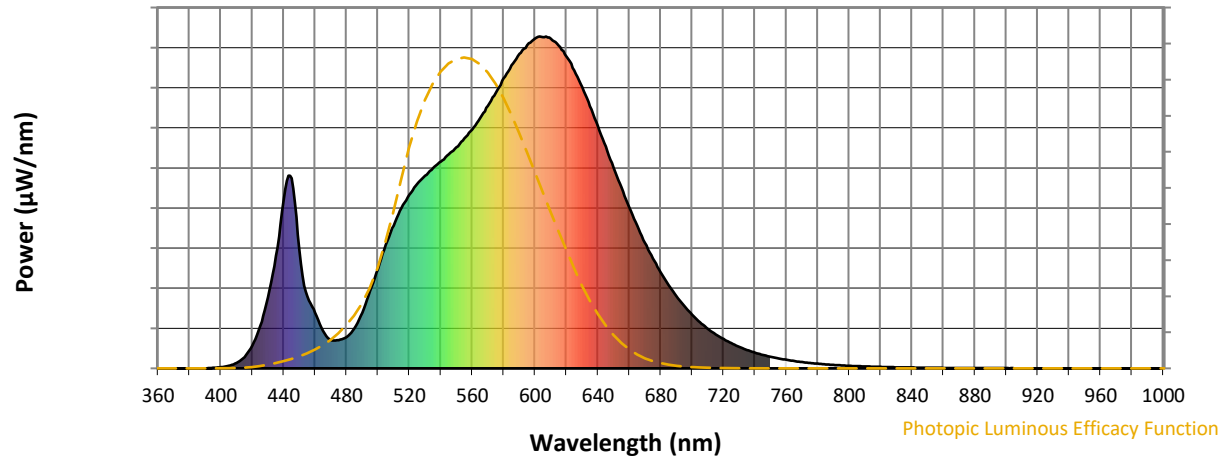
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

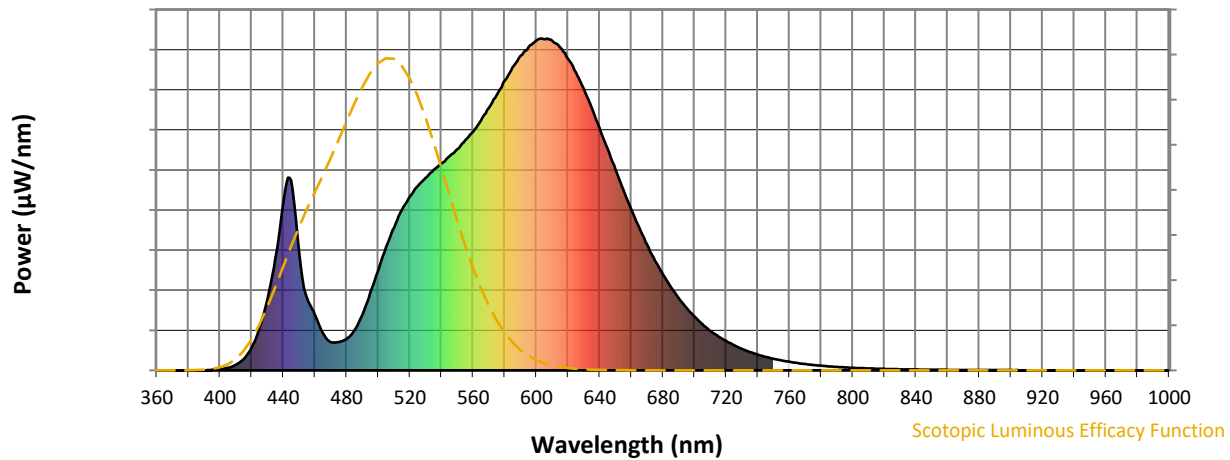


Photopic Lumens: NR

λ (nm)	Power 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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Scotopic Flux vs. Wavelength



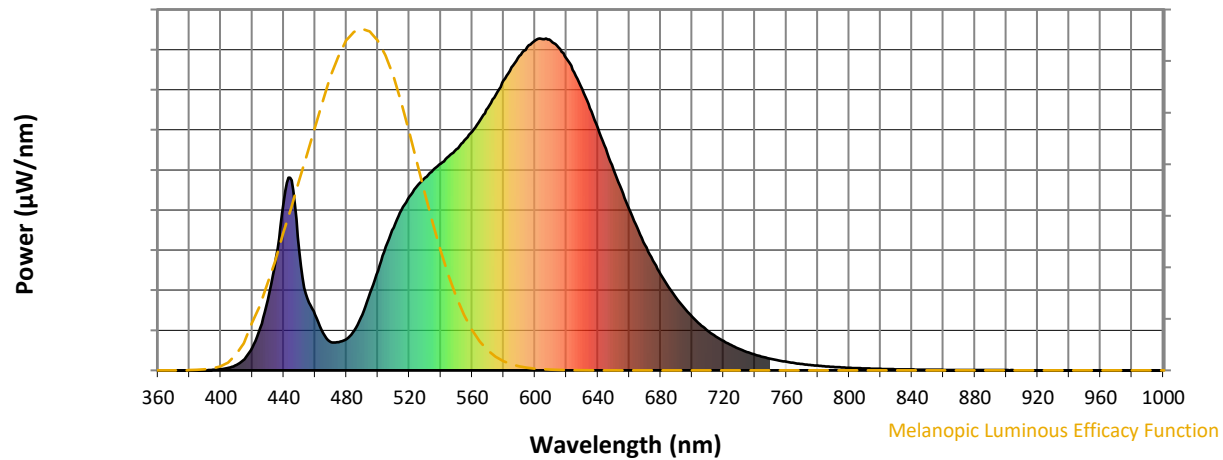
Scotopic Lumens: NR

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 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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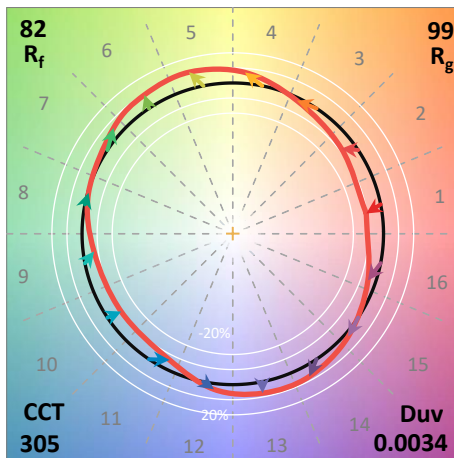
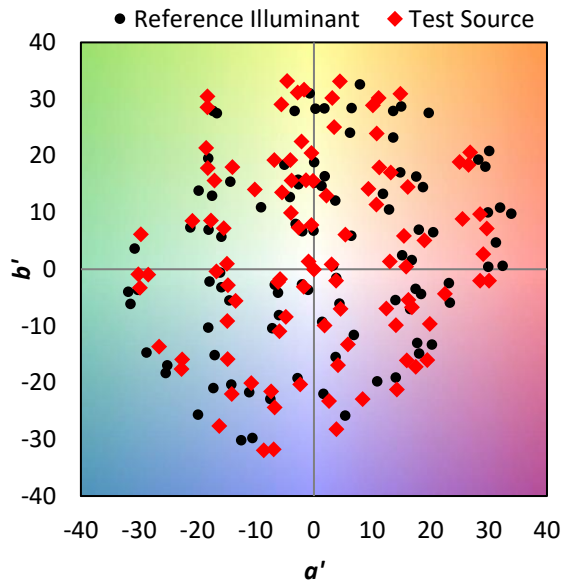
TM-30-18

Summary

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



Color Vector Graphics

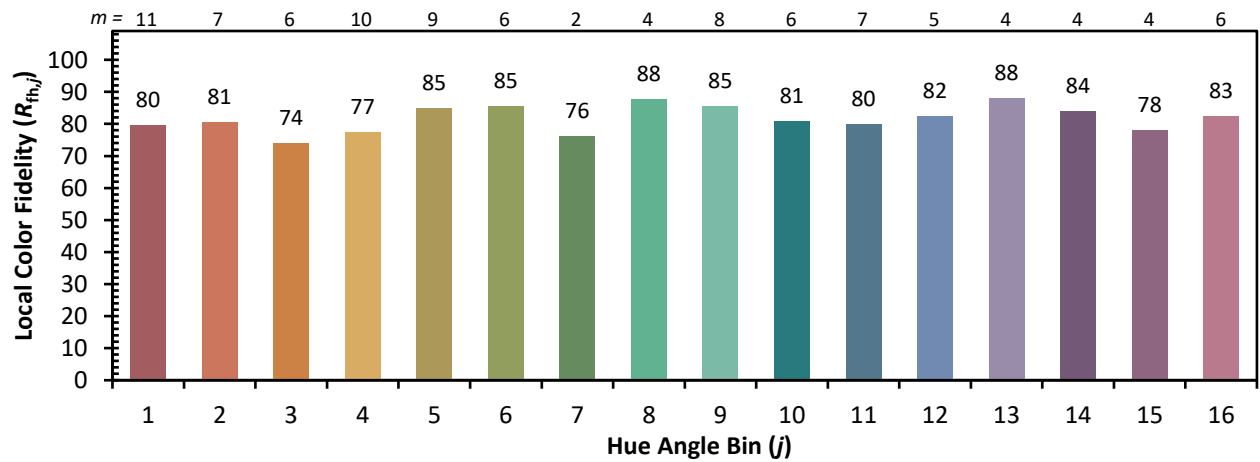
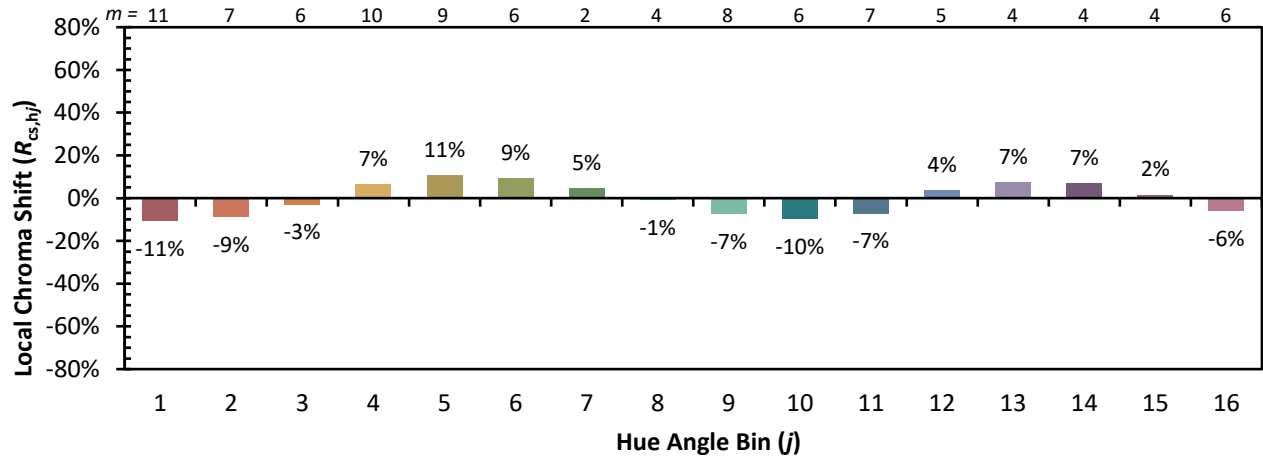


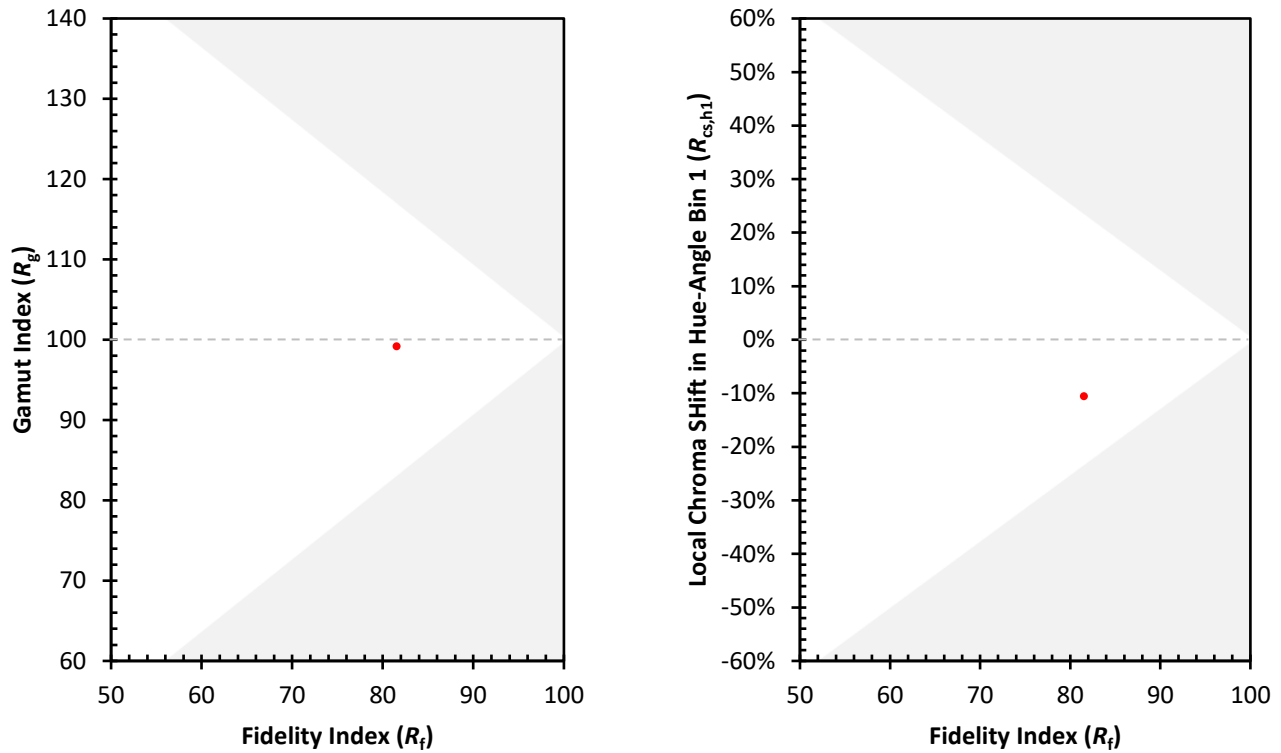
Individual Sample Fidelity Index ($R_{f,i}$)

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)