

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: P317923

Luminaire Tested: **GLEON-SA9B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41508 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

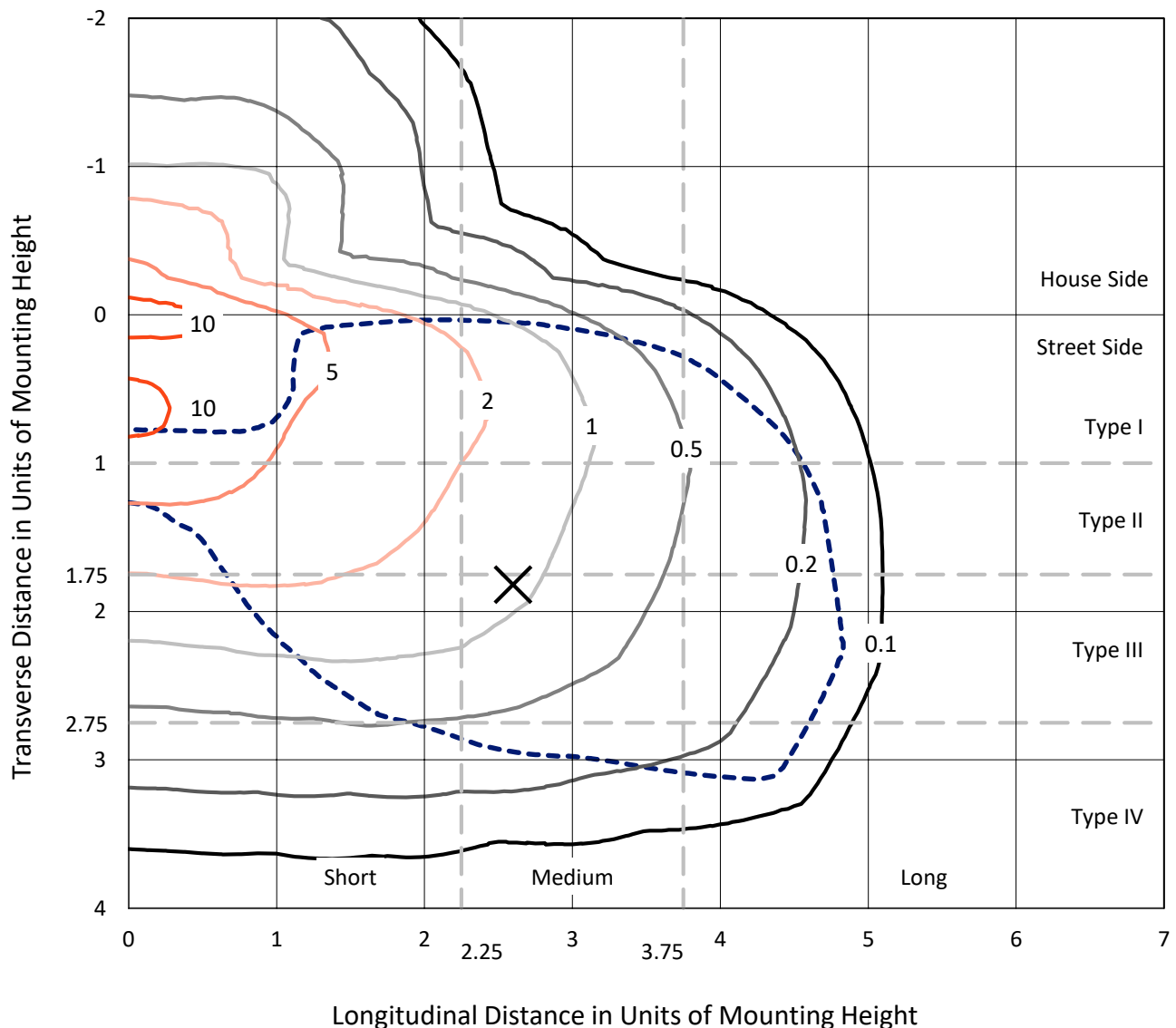
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

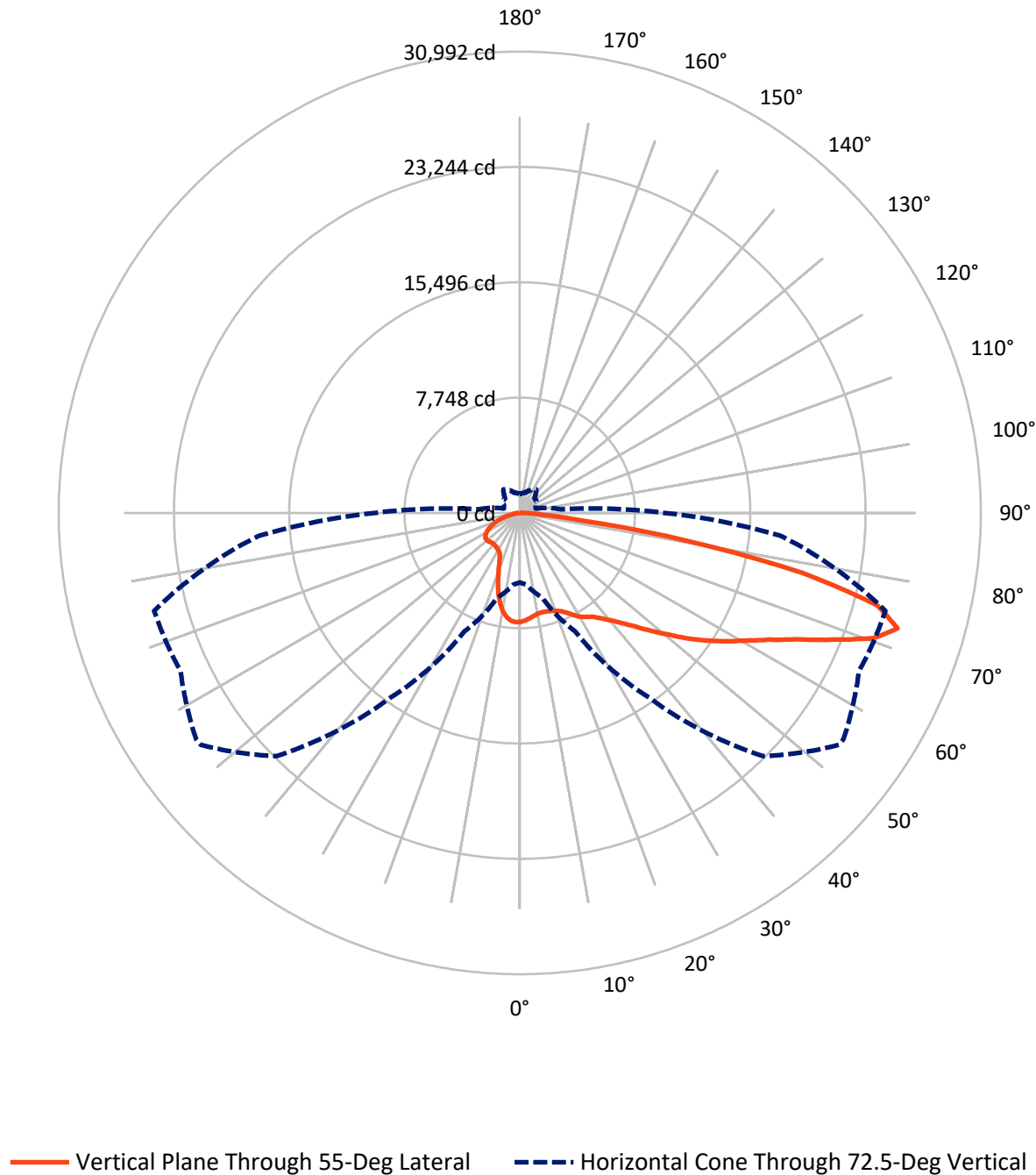
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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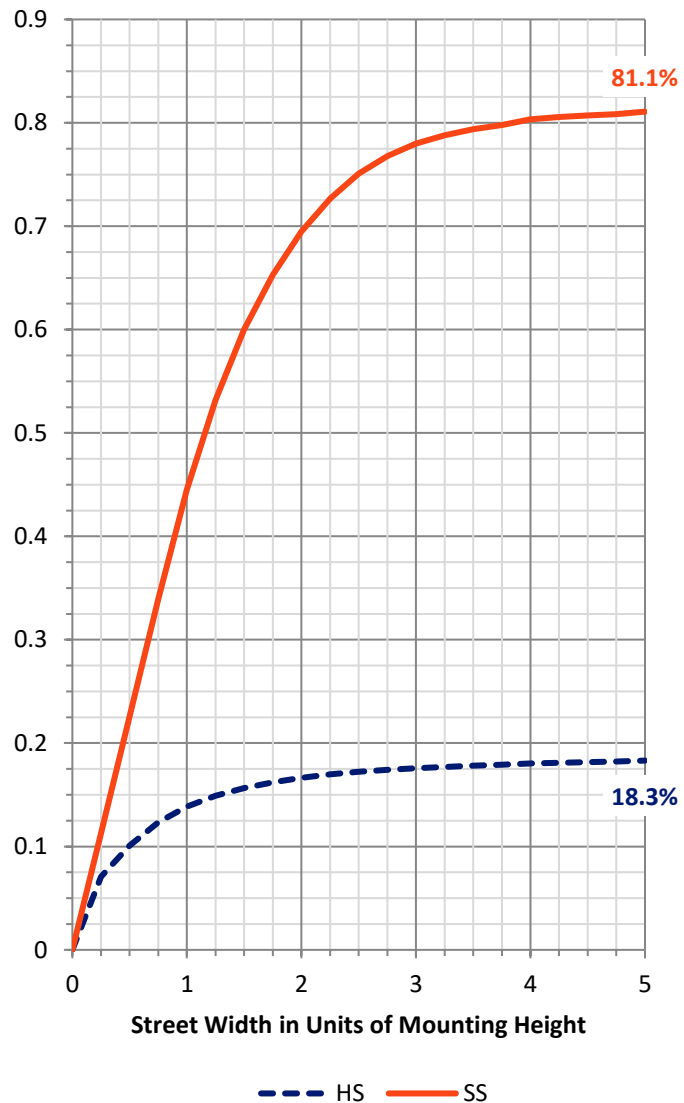
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7715.0	0.0	7715.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33793.0	0.0	33793.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	41508.0	0.0	41508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.5	1.6
10°-20°	1763.8	4.2
20°-30°	2908.0	7.0
30°-40°	4301.6	10.4
40°-50°	6004.2	14.5
50°-60°	7817.7	18.8
60°-70°	9607.7	23.1
70°-80°	7531.3	18.1
80°-90°	911.4	2.2
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°	41508.0	100.0
0°-180°	41508.0	100.0

Coefficient of Utilization



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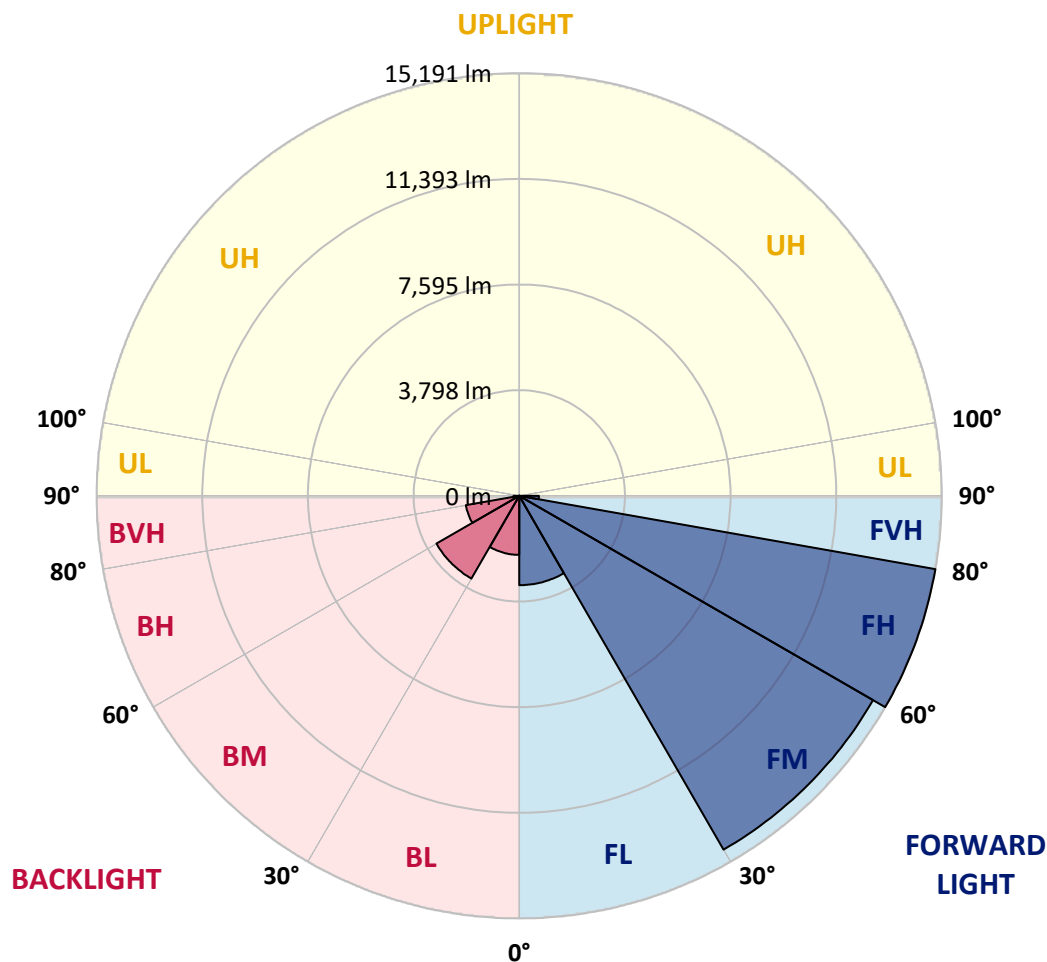
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3211.5	7.7			
FM	(30°-60°)	14686.4	35.4			
FH	(60°-80°)	15190.5	36.6			G5
FVH	(80°-90°)	704.6	1.7			G4/750
BL	(0°-30°)	2122.7	5.1	B3/2500		
BM	(30°-60°)	3437.1	8.3	B3/5000		
BH	(60°-80°)	1948.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	206.7	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1
2.5°	7082.8	7066.0	7087.0	7116.4	7148.7	7192.1	7217.4	7228.6	7272.0	7288.9	7325.3
5°	6754.7	6746.3	6781.4	6831.8	6903.3	7004.3	7085.6	7101.0	7216.0	7297.3	7371.6
7.5°	6516.4	6516.4	6557.0	6617.3	6697.2	6833.2	6948.2	6969.2	7164.1	7339.3	7476.7
10°	6327.1	6334.1	6381.8	6453.3	6547.2	6691.6	6844.4	6868.3	7150.1	7437.5	7656.2
12.5°	6200.9	6217.8	6261.2	6325.7	6442.1	6617.3	6810.8	6843.0	7179.5	7577.7	7872.1
15°	6280.9	6308.9	6313.1	6339.7	6404.2	6594.9	6830.4	6864.1	7242.6	7720.7	8117.4
17.5°	6631.3	6641.2	6597.7	6541.6	6510.8	6632.7	6889.3	6924.4	7318.3	7862.3	8353.0
20°	7164.1	7158.5	7064.6	6913.1	6756.1	6775.7	6986.0	7022.5	7420.7	7987.1	8588.5
22.5°	7837.0	7817.4	7673.0	7394.0	7126.2	7014.1	7155.7	7186.5	7574.9	8165.1	8840.9
25°	8653.0	8609.5	8418.9	8044.5	7650.6	7361.8	7410.8	7440.3	7799.2	8364.2	9072.2
27.5°	9513.8	9470.3	9227.8	8775.0	8250.6	7800.6	7762.7	7788.0	8054.4	8511.4	9243.2
30°	10413.9	10367.6	10146.1	9638.6	8887.1	8254.8	8090.8	8100.6	8233.8	8591.3	9383.4
32.5°	11318.2	11274.7	11026.5	10437.7	9578.3	8742.7	8327.7	8315.1	8341.8	8674.0	9541.8
35°	12235.0	12251.9	11961.7	11309.7	10343.8	9285.3	8608.1	8581.5	8522.6	8843.7	9766.2
37.5°	13216.4	13205.2	12829.5	12148.1	11144.3	9874.1	9010.5	9006.3	8803.0	9164.7	10118.1
40°	13872.6	13879.6	13651.0	13006.1	11953.2	10526.0	9526.4	9516.6	9250.2	9645.6	10579.3
42.5°	14129.1	14175.4	14234.3	13824.9	12800.0	11281.7	10141.9	10127.9	9874.1	10335.4	11121.9
45°	14147.3	14239.9	14604.4	14552.5	13658.0	12146.7	10928.4	10889.1	10706.9	11252.3	11769.6
47.5°	13990.3	14085.7	14691.3	14985.7	14424.9	13059.4	11848.1	11817.3	11660.2	12399.1	12470.6
50°	13646.8	13738.0	14511.9	15197.4	15055.8	13937.0	12908.0	12826.7	12742.6	13723.9	13272.5
52.5°	13003.3	13178.6	14272.1	15247.9	15433.0	14716.5	14022.6	13969.3	14015.6	15121.7	14075.8
55°	11479.4	11675.7	13653.8	15205.8	15711.9	15371.3	15137.1	15134.3	15374.1	16588.2	14938.1
57.5°	10625.6	10764.4	12394.9	15134.3	16042.8	16021.8	16240.5	16267.1	16734.0	18185.0	15840.9
60°	10143.3	10289.1	11757.0	14869.4	16555.9	16863.0	17366.3	17419.6	18116.3	19952.9	16927.5
62.5°	9704.5	9864.3	11361.6	14329.6	17160.2	18065.9	18715.0	18762.6	19580.0	21769.9	17977.5
65°	8954.4	9135.3	10782.6	13974.9	17709.8	19634.7	20429.6	20461.8	21261.0	23673.8	18780.9
67.5°	7894.5	8060.0	9690.5	13191.2	18116.3	21540.0	22709.2	22727.4	22927.9	25018.3	19191.6
70°	6656.6	6719.7	8134.3	11573.3	17635.5	23321.9	25207.5	25211.7	24447.7	25879.1	19124.4
72.5°	4677.0	4825.6	5905.1	8760.9	15155.4	23104.6	26504.4	26552.0	25154.3	25444.5	17596.2
75°	2868.4	3025.5	3704.0	5309.3	9614.8	18171.0	24488.3	24819.2	23829.4	22686.8	14374.5
77.5°	1917.9	1976.8	2417.0	3095.6	4355.9	10454.5	18827.1	19449.6	19795.9	16544.7	9192.8
80°	1069.7	1181.9	1602.5	1923.5	1937.5	4154.1	11288.7	11434.5	11013.9	6587.9	2836.2
82.5°	566.4	628.1	1069.7	1130.0	1057.1	1390.8	4207.3	4211.5	3519.0	1766.5	842.6
85°	438.8	490.7	733.2	689.8	539.8	616.9	1388.0	1463.7	1197.3	723.4	274.8
87.5°	218.7	272.0	497.7	437.4	211.7	176.6	496.3	529.9	472.5	283.2	99.5
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-SA9B-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1	7321.1
2.5°	7339.3	7352.0	7367.4	7350.6	7345.0	7322.5	7284.7	7276.3	7256.6	7258.0	7269.2
5°	7403.8	7424.9	7416.5	7352.0	7274.9	7166.9	7054.7	6959.4	6896.3	6892.1	6887.9
7.5°	7527.2	7541.2	7475.3	7291.7	7075.8	6826.2	6590.7	6384.6	6259.8	6229.0	6222.0
10°	7720.7	7717.9	7537.0	7166.9	6736.5	6290.7	5912.1	5626.1	5459.3	5410.2	5397.6
12.5°	7936.6	7904.3	7558.1	6939.8	6257.0	5638.7	5159.3	4841.0	4667.2	4611.1	4597.1
15°	8159.5	8079.6	7506.2	6600.5	5668.2	4936.4	4433.0	4138.6	4044.7	4013.9	4008.2
17.5°	8367.0	8212.8	7357.6	6140.7	4996.6	4236.8	3844.2	3726.5	3748.9	3789.5	3790.9
20°	8570.3	8302.5	7119.2	5560.2	4288.6	3660.6	3527.4	3614.3	3720.8	3803.6	3814.8
22.5°	8770.8	8365.6	6812.2	4890.1	3655.0	3336.7	3430.6	3589.1	3711.0	3800.8	3816.2
25°	8939.0	8381.0	6388.8	4175.1	3214.7	3214.7	3384.4	3534.4	3655.0	3743.3	3758.7
27.5°	9000.7	8277.3	5791.6	3513.4	2993.2	3158.7	3319.9	3444.7	3547.0	3640.9	3657.8
30°	9024.5	8085.2	5101.8	2982.0	2902.1	3098.4	3233.0	3339.5	3436.2	3524.6	3540.0
32.5°	9028.7	7853.9	4370.0	2680.6	2839.0	3035.3	3125.0	3218.9	3322.7	3357.7	3363.3
35°	9055.4	7580.5	3598.9	2526.4	2780.1	2976.4	3047.9	3115.2	2947.0	2959.6	2970.8
37.5°	9132.5	7309.9	2954.0	2439.4	2742.3	2945.6	3031.1	2787.1	2655.3	2624.5	2620.3
40°	9276.9	7021.1	2475.9	2369.3	2728.2	2961.0	2923.1	2602.1	2374.9	2205.3	2180.1
42.5°	9477.4	6709.9	2170.3	2323.1	2738.1	3035.3	2773.1	2424.0	2046.9	1937.5	1923.5
45°	9703.1	6383.2	2004.8	2290.8	2771.7	3092.8	2742.3	2187.1	1894.1	1811.4	1804.3
47.5°	9921.8	5983.6	1919.3	2276.8	2818.0	3046.5	2611.9	2114.2	1821.2	1777.7	1781.9
50°	10172.7	5623.3	1867.4	2261.4	2858.6	3017.1	2464.7	2076.3	1793.1	1846.4	1902.5
52.5°	10384.4	5250.4	1821.2	2230.5	2874.1	2965.2	2426.8	2083.3	1793.1	1895.5	1948.7
55°	10635.4	4968.6	1767.9	2166.1	2844.6	2818.0	2400.2	2125.4	1814.2	1749.7	1755.3
57.5°	10959.2	4876.1	1709.0	2065.1	2746.5	2603.5	2387.6	2166.1	1801.5	1760.9	1774.9
60°	11407.9	4974.2	1685.2	1933.3	2593.7	2435.2	2389.0	2145.0	1713.2	1643.1	1644.5
62.5°	11835.5	5083.6	1683.8	1850.6	2405.8	2285.2	2356.7	2076.3	1668.4	1627.7	1643.1
65°	11975.7	4972.8	1616.5	1758.1	2194.1	2105.8	2297.8	2003.4	1634.7	1573.0	1570.2
67.5°	11787.8	4629.3	1480.5	1608.1	1951.6	1896.9	2220.7	1916.5	1581.4	1531.0	1522.5
70°	11229.8	3862.4	1312.2	1410.4	1675.4	1661.3	2098.8	1815.6	1509.9	1466.5	1430.0
72.5°	9728.3	2752.1	1106.2	1173.5	1364.1	1409.0	1930.5	1683.8	1409.0	1315.1	1259.0
75°	7989.9	2037.1	908.5	922.5	1036.1	1158.0	1699.2	1529.6	1289.8	1130.0	1086.5
77.5°	4892.9	1246.4	723.4	729.0	743.0	923.9	1399.2	1357.1	1138.4	942.1	911.3
80°	1584.2	680.0	522.9	549.6	507.5	677.2	1082.3	1155.2	977.2	787.9	754.3
82.5°	602.8	396.8	353.3	371.5	351.9	454.2	789.3	925.3	800.5	647.7	527.1
85°	291.6	224.3	208.9	234.1	217.3	232.7	504.7	681.4	607.1	422.0	392.6
87.5°	103.7	99.5	79.9	108.0	92.5	82.7	154.2	343.5	401.0	290.2	259.4
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

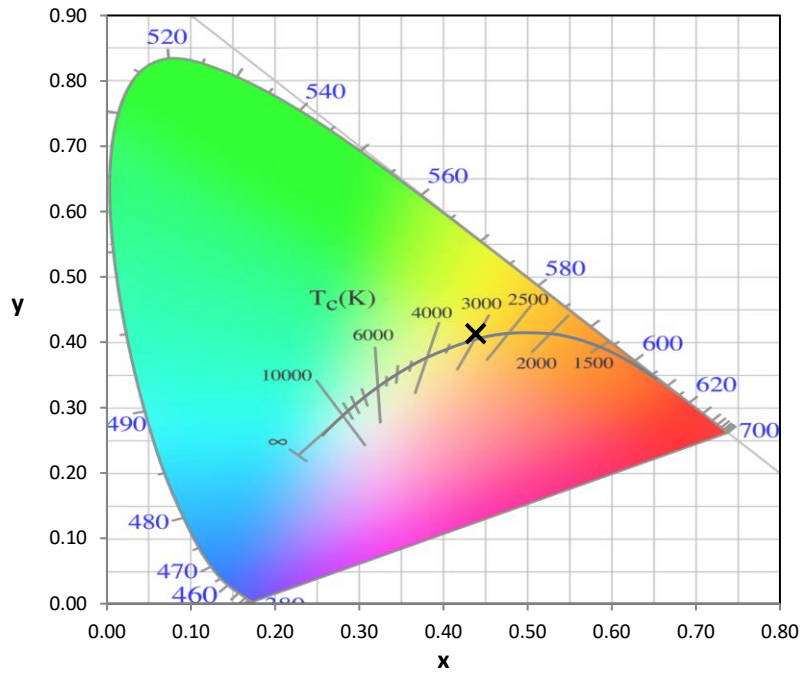
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

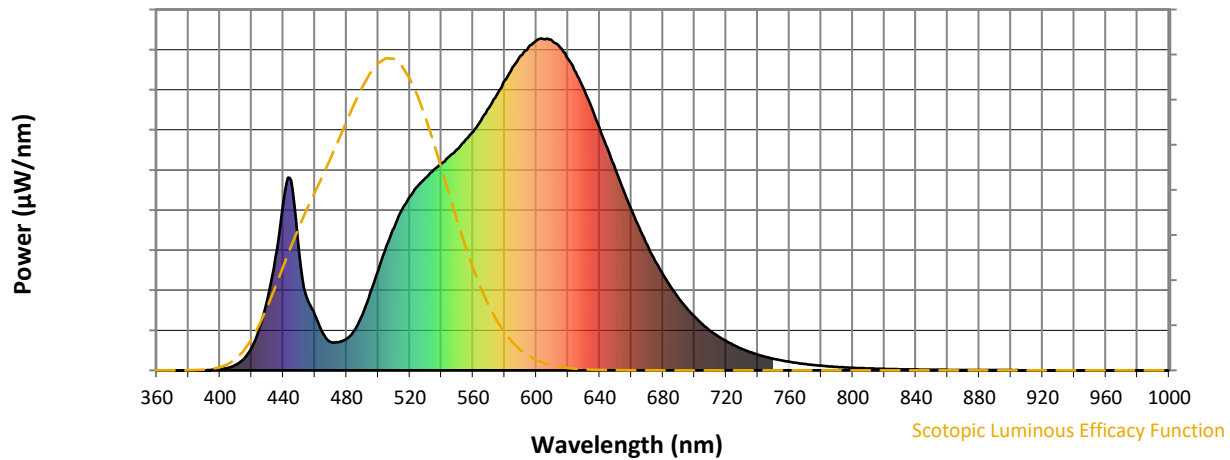


Photopic Lumens: NR

λ (nm)	Power 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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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

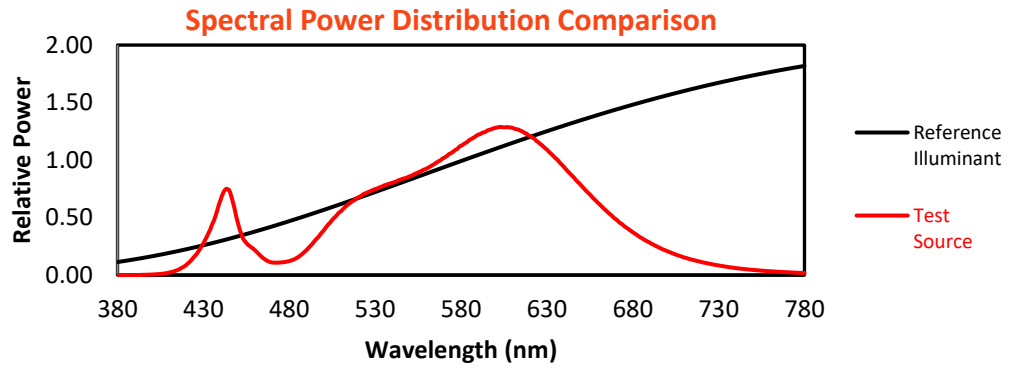
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168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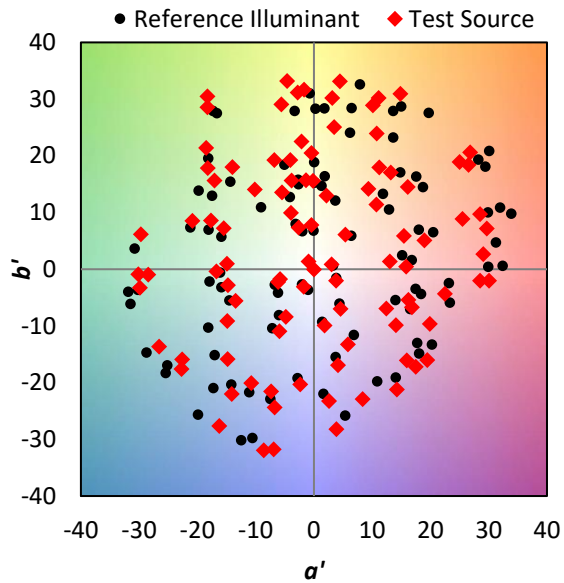
TM-30-18

Summary

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



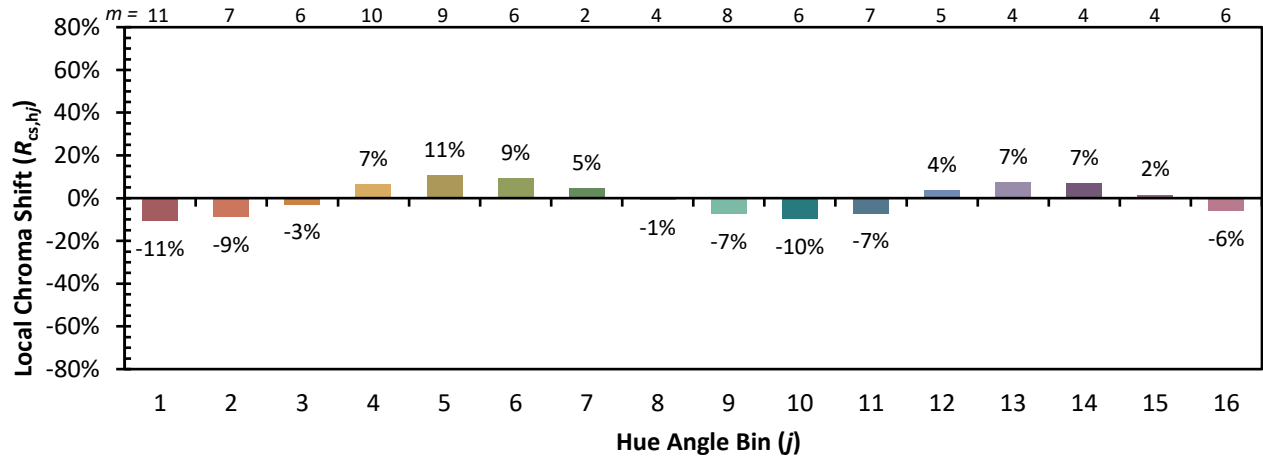
Color Vector Graphics



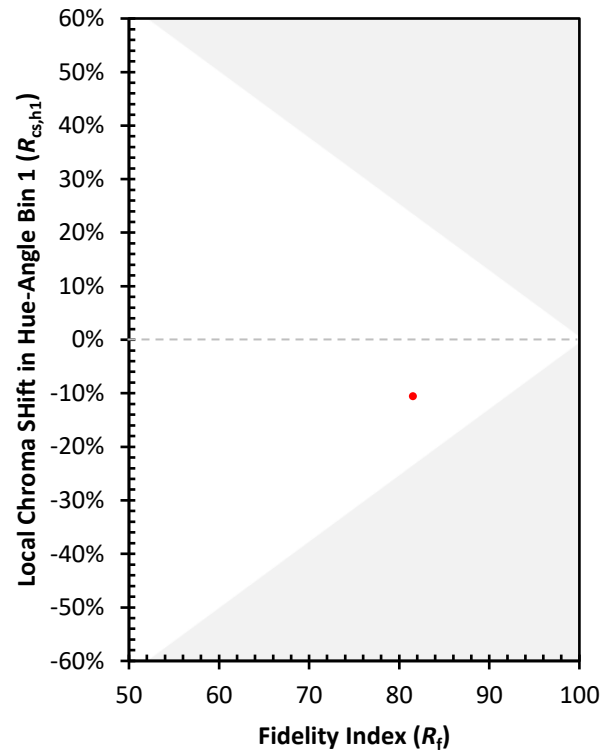
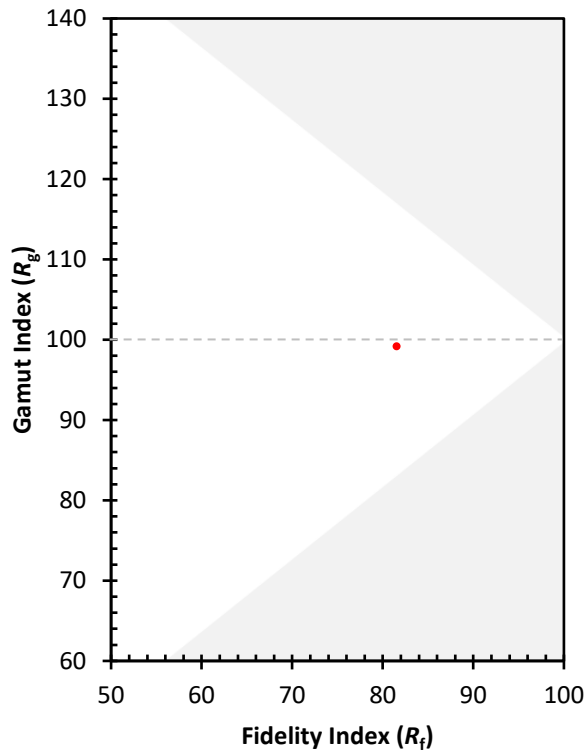
Individual Sample Fidelity Index ($R_{f,i}$)

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)