

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629571

Luminaire Tested: GWS-SA1B-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1526.7 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

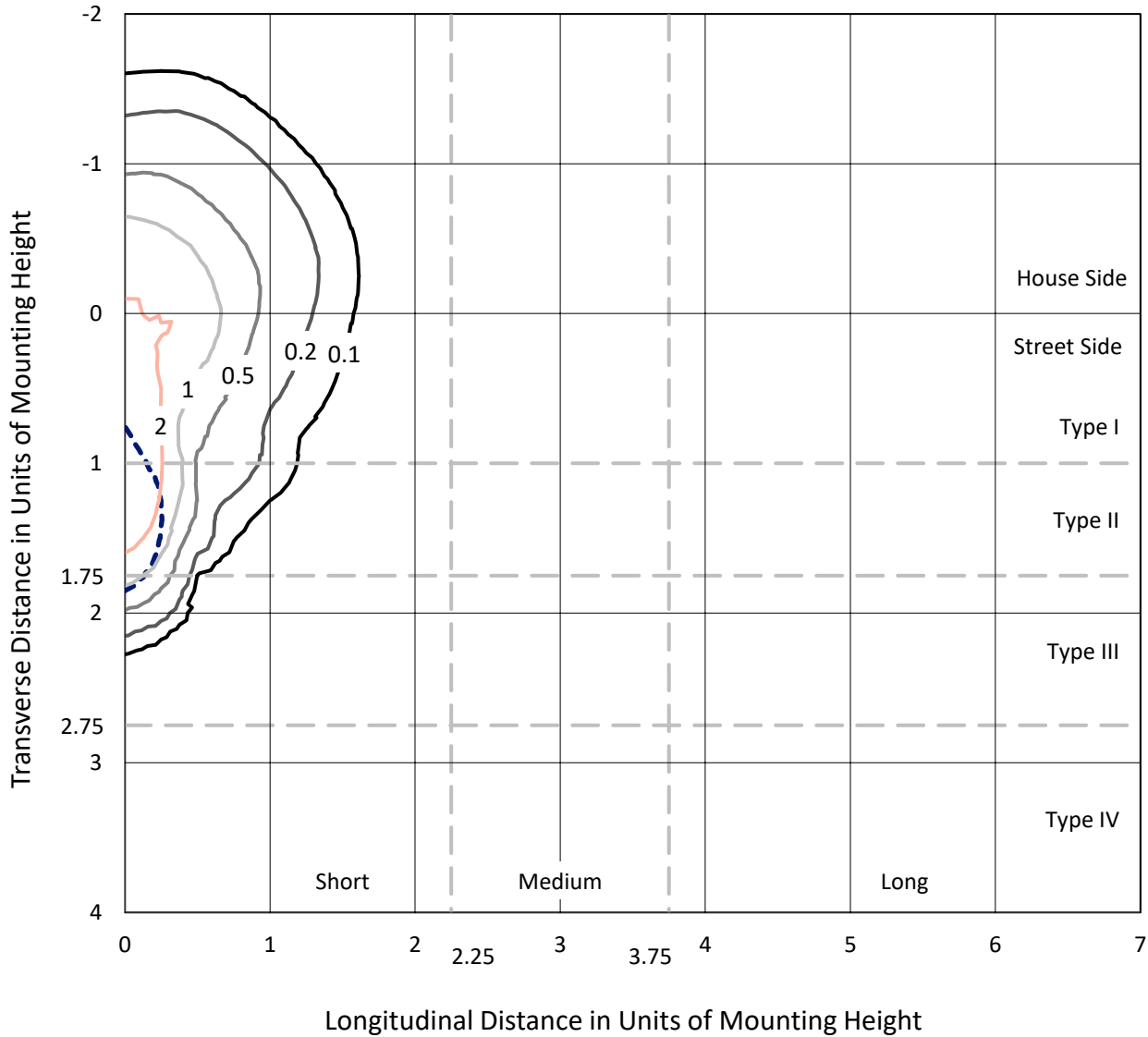
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

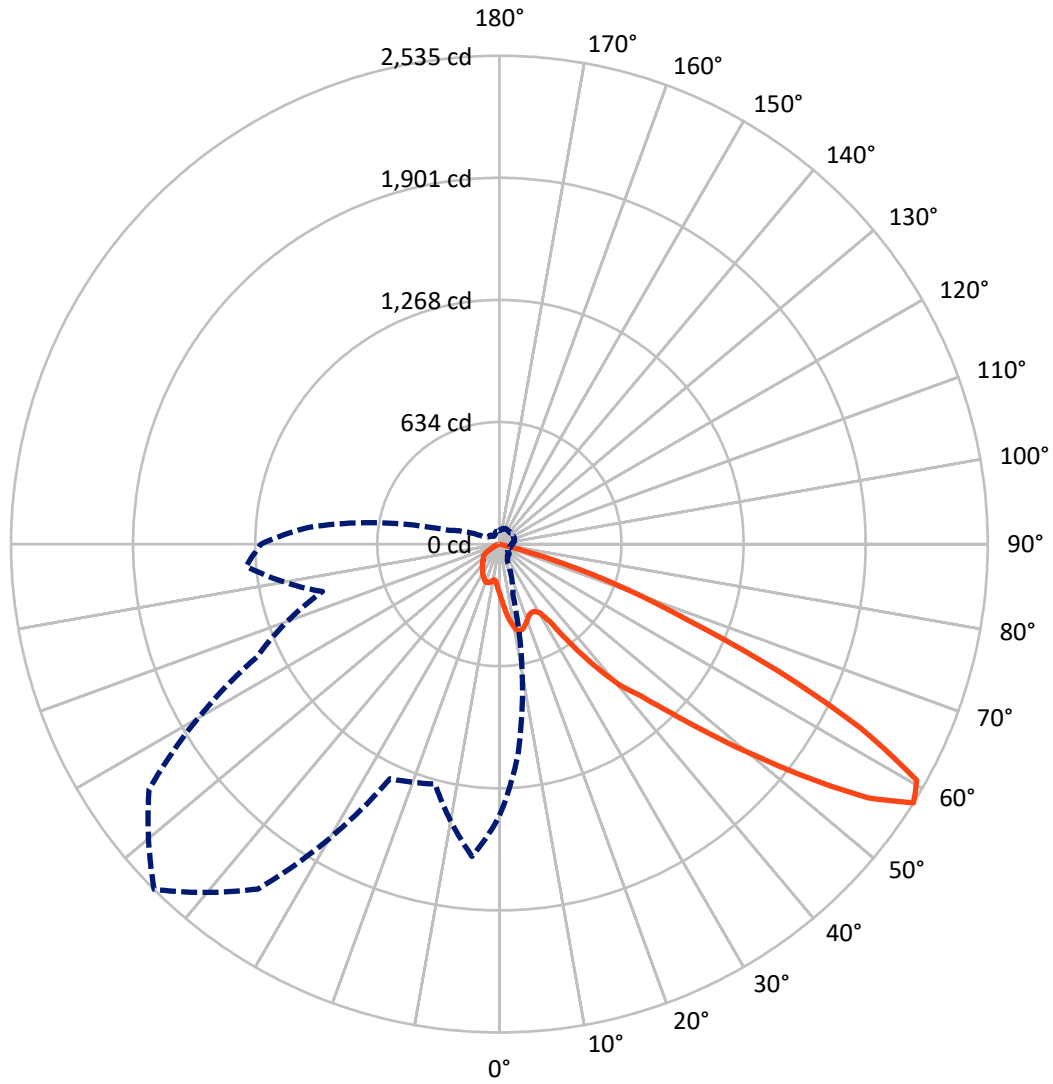
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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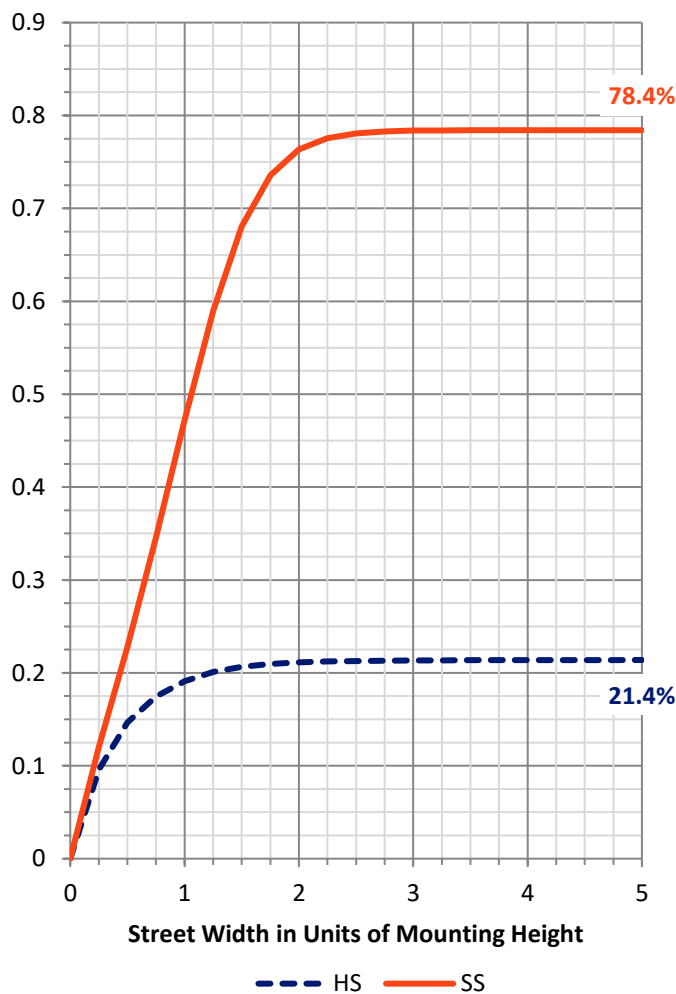
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.9	0.0	328.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	1197.8	0.0	1197.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	1526.7	0.0	1526.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	1.7
10°-20°	84.4	5.5
20°-30°	136.9	9.0
30°-40°	210.1	13.8
40°-50°	335.6	22.0
50°-60°	469.9	30.8
60°-70°	240.9	15.8
70°-80°	23.2	1.5
80°-90°	0.0	0.0
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°	1526.7	100.0
0°-180°	1526.7	100.0

Coefficient of Utilization



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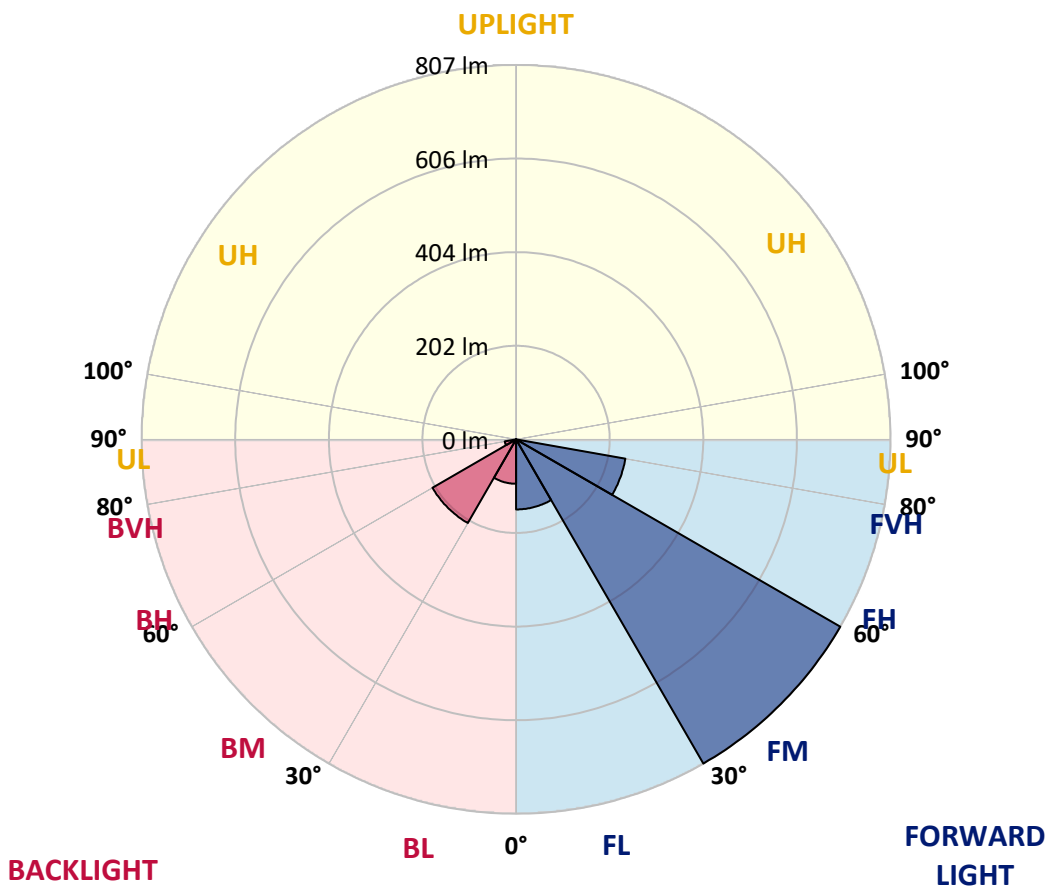
CATALOG NUMBER: GWS-SA1B-830-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.2	9.9			
FM (30°-60°)	807.4	52.9			
FH (60°-80°)	239.3	15.7			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	95.8	6.3	B0/110		
BM (30°-60°)	208.3	13.6	B0/220		
BH (60°-80°)	24.8	1.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
2.5°	288.2	287.6	285.5	278.6	274.3	267.6	262.7	256.3	249.4	245.1	240.8
5°	318.8	317.2	311.7	295.7	283.5	270.2	259.6	248.0	235.5	227.4	219.8
7.5°	348.2	345.7	338.4	311.5	292.9	273.9	258.8	241.9	224.3	212.1	202.7
10°	377.0	371.5	359.8	326.8	301.7	278.8	261.0	241.7	221.0	205.5	195.1
12.5°	400.6	396.6	380.6	341.3	309.0	279.8	258.0	240.0	226.1	215.7	206.1
15°	421.1	416.6	401.5	354.3	315.3	275.7	245.1	229.4	231.7	235.7	227.6
17.5°	439.8	435.1	418.8	365.1	317.8	265.7	227.2	219.6	232.1	247.4	244.3
20°	459.2	453.9	433.9	373.9	317.0	250.0	209.0	211.2	228.8	246.3	248.0
22.5°	481.9	476.4	453.1	385.1	316.4	231.2	193.3	203.9	222.7	237.6	240.4
25°	511.9	505.3	479.8	401.7	318.0	214.1	182.1	196.8	212.3	225.7	227.4
27.5°	551.5	543.1	510.7	422.1	321.5	200.6	177.2	187.0	199.0	211.0	212.5
30°	603.1	592.5	546.0	439.8	319.8	191.2	173.9	177.2	184.3	194.1	194.3
32.5°	663.5	649.0	585.6	455.1	305.7	184.3	169.4	167.2	168.8	176.3	177.8
35°	734.5	715.8	629.2	469.6	280.0	170.8	161.2	153.7	153.1	156.7	160.2
37.5°	816.0	793.5	684.3	488.2	249.6	156.7	149.2	141.6	138.4	140.2	145.5
40°	891.1	866.2	741.9	510.7	218.6	144.1	135.1	127.4	123.5	124.1	130.6
42.5°	979.3	953.5	812.3	540.0	192.9	135.5	120.4	112.5	107.4	110.2	117.8
45°	1113.2	1084.0	915.0	565.6	172.5	133.5	107.6	96.3	93.9	98.8	107.8
47.5°	1296.0	1260.3	1056.0	581.1	155.1	135.3	98.6	83.3	83.9	89.4	98.4
50°	1477.5	1438.9	1219.1	560.7	140.8	131.6	94.1	73.1	76.9	81.8	90.0
52.5°	1602.2	1552.0	1298.5	501.7	127.8	117.8	93.7	63.5	70.8	72.5	79.4
55°	1607.1	1545.2	1257.9	395.5	110.0	99.4	89.4	55.5	64.1	64.7	70.6
57.5°	1408.7	1352.8	1099.3	271.7	97.8	72.9	71.2	48.6	52.7	57.8	61.4
60°	1071.7	1024.2	822.1	124.5	74.3	46.3	48.8	41.8	39.4	46.9	50.6
62.5°	656.4	626.0	493.1	55.1	47.4	24.7	29.6	33.3	29.6	32.5	35.5
65°	260.6	247.2	187.2	23.5	19.4	12.4	13.5	19.4	20.8	22.9	25.7
67.5°	45.3	42.9	31.4	10.4	8.0	7.6	6.5	9.0	12.7	14.1	16.3
70°	5.9	5.7	5.1	4.3	4.1	3.7	2.9	5.7	8.6	9.0	10.4
72.5°	1.4	1.2	1.2	1.0	1.2	0.4	0.4	3.1	6.1	6.3	7.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.9	4.3	5.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
2.5°	237.4	233.3	231.9	229.8	227.2	228.0	224.3	223.1	224.9	227.4	226.8
5°	215.7	211.2	208.2	203.5	202.7	200.8	199.6	198.0	200.0	202.9	203.5
7.5°	198.6	194.7	191.6	190.2	189.2	188.4	185.9	184.7	184.7	185.9	187.0
10°	191.2	188.4	187.8	188.2	189.8	189.6	187.4	185.7	183.7	182.7	183.9
12.5°	201.4	196.8	195.9	196.1	198.2	198.0	195.5	193.5	193.1	193.5	197.4
15°	218.8	211.6	206.3	205.3	206.3	205.9	204.1	202.9	203.5	209.4	215.9
17.5°	234.3	223.3	213.7	210.0	209.8	209.2	207.4	207.0	210.0	221.0	230.6
20°	238.8	228.0	214.3	209.6	208.6	208.0	205.9	206.5	210.4	223.7	231.9
22.5°	232.9	222.5	208.2	203.5	202.7	202.5	200.4	201.2	204.5	216.1	222.9
25°	221.7	212.9	198.0	193.9	193.9	193.5	191.6	192.1	194.1	204.3	210.8
27.5°	208.0	199.6	187.2	183.1	183.7	184.3	182.1	181.4	183.1	192.7	196.5
30°	192.3	186.3	176.5	172.9	172.7	175.1	172.1	171.2	173.5	181.0	181.9
32.5°	177.0	174.1	167.2	164.3	164.5	164.9	163.3	163.3	165.3	169.4	169.2
35°	162.1	160.2	159.0	157.0	156.7	155.9	155.9	156.3	158.6	160.0	157.4
37.5°	147.8	149.6	151.0	149.0	147.4	147.4	147.4	149.2	151.2	150.6	146.1
40°	135.1	139.0	143.5	141.2	137.4	137.2	138.0	141.0	144.1	140.4	136.3
42.5°	124.3	129.2	135.5	134.3	130.0	129.4	130.0	133.9	136.3	131.6	127.2
45°	113.7	119.8	127.4	127.4	122.7	122.1	122.3	127.4	128.8	123.3	117.6
47.5°	104.7	111.4	119.4	119.4	115.5	114.3	115.3	120.6	121.6	113.9	108.6
50°	96.1	103.5	112.3	111.6	109.0	108.0	109.8	115.5	114.3	105.7	100.2
52.5°	85.3	93.1	105.1	105.7	104.3	104.5	106.7	110.4	106.9	96.5	91.8
55°	75.5	83.5	95.5	98.8	98.8	98.6	99.6	102.5	99.6	87.1	81.4
57.5°	64.9	71.6	81.6	82.5	83.1	80.8	82.3	86.1	84.7	74.1	70.8
60°	53.3	59.0	64.7	65.3	62.7	58.0	60.6	65.1	66.1	58.2	54.5
62.5°	37.8	43.3	50.0	50.0	47.4	42.7	46.1	50.0	48.6	40.4	38.2
65°	28.2	33.3	38.4	40.6	38.4	35.1	37.8	40.6	38.4	31.6	28.4
67.5°	18.2	21.6	24.7	26.5	26.9	26.5	27.8	26.9	24.3	19.8	18.0
70°	11.0	12.9	14.5	16.1	17.3	18.0	18.6	16.7	14.1	11.6	11.0
72.5°	8.0	9.6	11.0	12.2	13.7	14.1	14.1	12.9	10.4	8.2	7.6
75°	5.5	6.9	8.2	9.0	10.2	10.6	10.6	9.6	7.8	5.9	5.3
77.5°	0.2	1.4	1.4	1.2	1.6	2.0	2.0	2.4	2.2	1.6	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
2.5°	228.0	235.3	237.4	244.9	251.7	258.4	266.6	271.5	278.8	283.9	286.8
5°	205.5	211.6	219.0	230.2	241.9	254.7	270.2	283.7	300.6	313.1	317.2
7.5°	189.2	197.2	205.7	219.8	235.7	252.9	274.7	296.8	322.7	339.6	350.4
10°	186.1	194.3	205.7	219.6	236.3	255.9	282.7	311.2	343.7	364.3	376.6
12.5°	200.8	209.6	214.5	220.8	233.5	255.3	289.6	325.9	364.1	386.6	399.6
15°	222.5	230.2	222.3	214.3	222.5	248.8	293.5	338.2	382.1	408.0	421.5
17.5°	237.4	238.0	220.6	203.7	205.9	237.0	294.9	350.4	401.3	428.4	442.5
20°	235.9	231.0	213.5	194.7	187.8	221.7	293.3	361.3	420.6	449.0	462.9
22.5°	224.9	219.2	204.3	185.9	172.5	203.5	290.4	371.1	438.4	470.7	483.7
25°	211.6	205.5	193.3	177.2	162.7	185.9	288.2	384.5	460.9	498.8	509.0
27.5°	196.1	190.8	180.4	168.8	158.6	172.7	287.6	402.3	488.0	533.1	540.2
30°	181.0	176.1	168.0	161.2	157.0	164.9	285.5	421.3	520.5	572.5	580.3
32.5°	166.5	161.6	156.5	155.5	155.7	162.1	278.6	440.0	559.0	629.6	635.4
35°	154.1	148.4	146.3	148.8	153.3	157.2	259.0	455.5	600.5	691.9	696.6
37.5°	142.3	136.5	136.3	142.3	147.2	149.6	235.9	470.9	656.4	755.2	761.1
40°	131.4	125.7	127.8	134.9	138.8	140.0	208.0	494.1	715.6	821.9	818.6
42.5°	122.3	116.3	117.6	126.7	130.2	133.5	182.3	513.5	772.5	885.2	884.2
45°	113.3	108.8	108.0	118.0	121.0	134.1	163.5	528.4	845.8	965.8	967.4
47.5°	104.5	101.0	101.2	105.5	113.1	137.2	147.6	538.2	952.1	1093.6	1065.2
50°	96.5	93.9	96.1	91.2	108.0	133.3	133.9	536.2	1070.9	1216.0	1159.1
52.5°	87.8	87.1	88.2	76.3	99.8	117.6	121.0	509.0	1126.6	1299.7	1267.2
55°	78.8	78.6	70.4	61.0	83.5	93.9	103.7	424.7	1124.8	1344.2	1383.6
57.5°	68.2	66.5	53.5	49.8	64.9	65.3	94.5	278.2	996.8	1237.7	1319.3
60°	51.6	50.4	39.2	40.4	45.3	41.8	75.3	138.6	745.0	964.2	1056.2
62.5°	35.7	34.1	29.2	31.2	29.2	23.9	46.1	68.6	451.3	608.8	692.3
65°	26.1	24.3	20.0	17.1	13.7	13.7	17.6	26.3	174.7	258.8	312.1
67.5°	16.1	15.3	11.8	8.6	8.4	9.0	9.2	13.1	28.2	44.9	54.9
70°	10.4	9.6	8.0	5.5	5.1	5.3	5.5	6.1	7.1	7.8	9.4
72.5°	7.1	6.7	5.7	3.1	2.4	2.7	2.9	2.9	3.5	3.3	3.9
75°	5.1	4.7	4.1	1.4	0.8	1.0	1.2	1.0	1.2	0.8	1.0
77.5°	1.4	1.4	1.0	0.2	0.0	0.2	0.4	0.4	0.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
2.5°	294.1	298.8	300.6	298.0	300.2	296.6	295.1	289.6	289.2	288.2
5°	333.7	344.3	350.6	354.5	350.0	345.1	337.8	325.1	321.3	318.8
7.5°	372.7	389.2	400.0	405.1	403.9	393.9	380.6	359.4	351.9	348.2
10°	406.6	426.8	439.8	446.2	443.5	434.7	415.7	389.2	379.2	377.0
12.5°	430.2	448.8	457.8	463.3	463.5	460.0	442.1	415.3	403.5	400.6
15°	445.1	453.1	453.3	456.6	462.3	470.0	461.7	438.0	425.3	421.1
17.5°	454.5	445.8	436.8	437.6	447.0	467.6	476.2	458.0	444.5	439.8
20°	461.3	433.5	416.8	417.0	426.6	457.8	486.2	477.4	463.5	459.2
22.5°	465.5	422.7	398.8	398.2	408.4	446.2	495.3	500.4	486.8	481.9
25°	474.3	417.6	388.0	391.5	400.4	442.5	507.8	531.1	518.4	511.9
27.5°	490.0	422.7	387.0	394.9	405.1	453.3	529.4	571.9	558.8	551.5
30°	517.2	441.9	402.7	413.7	426.0	481.7	565.8	628.8	610.0	603.1
32.5°	560.9	481.7	451.3	474.9	486.8	528.2	620.3	692.7	677.4	663.5
35°	621.1	572.5	569.0	624.1	621.3	616.4	687.2	771.1	748.0	734.5
37.5°	703.9	718.6	744.3	799.0	797.2	759.9	775.2	845.2	833.3	816.0
40°	807.4	838.6	882.3	960.7	936.2	889.3	883.1	921.1	911.5	891.1
42.5°	868.4	922.3	1005.6	1076.0	1056.4	974.4	967.4	1022.5	1001.5	979.3
45°	896.8	990.5	1153.8	1249.1	1189.7	1030.9	1028.2	1154.8	1143.0	1113.2
47.5°	909.9	1059.3	1327.3	1471.5	1360.5	1080.5	1070.9	1346.6	1331.1	1296.0
50°	924.4	1154.2	1536.2	1729.3	1566.9	1136.6	1143.6	1525.4	1518.9	1477.5
52.5°	956.2	1254.6	1793.6	2024.0	1817.1	1224.6	1268.3	1694.0	1649.9	1602.2
55°	1004.0	1364.0	2061.4	2325.1	2072.4	1342.8	1403.2	1783.6	1659.9	1607.1
57.5°	951.1	1391.3	2220.0	2535.3	2185.7	1343.2	1289.1	1628.3	1459.9	1408.7
60°	754.8	1294.4	2159.0	2489.8	2089.2	1192.8	987.0	1271.3	1106.0	1071.7
62.5°	510.2	1085.6	1900.6	2105.7	1788.1	938.2	641.5	826.8	684.7	656.4
65°	279.6	809.9	1535.6	1593.0	1399.5	655.4	330.0	358.8	273.3	260.6
67.5°	77.1	563.7	1129.9	1056.8	981.9	426.8	85.3	64.1	45.7	45.3
70°	19.4	372.9	677.0	697.8	602.1	273.3	16.3	7.8	6.1	5.9
72.5°	8.2	160.4	321.3	369.2	308.2	126.5	5.9	2.2	1.8	1.4
75°	1.0	12.9	27.3	41.4	28.4	13.7	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

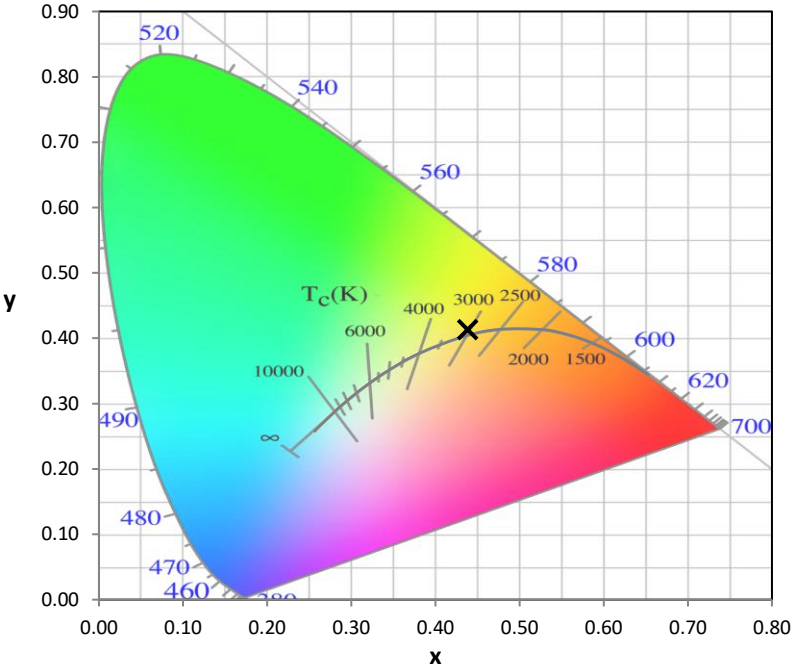
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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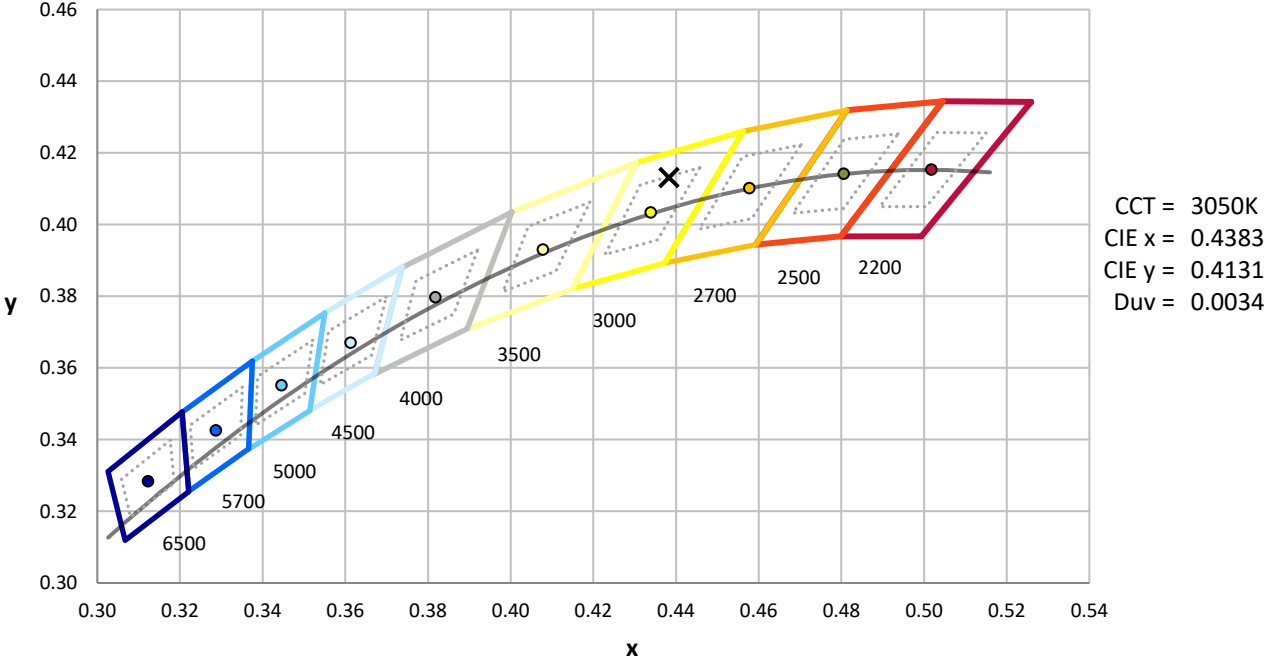
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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			

Summary

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



Color Vector Graphics

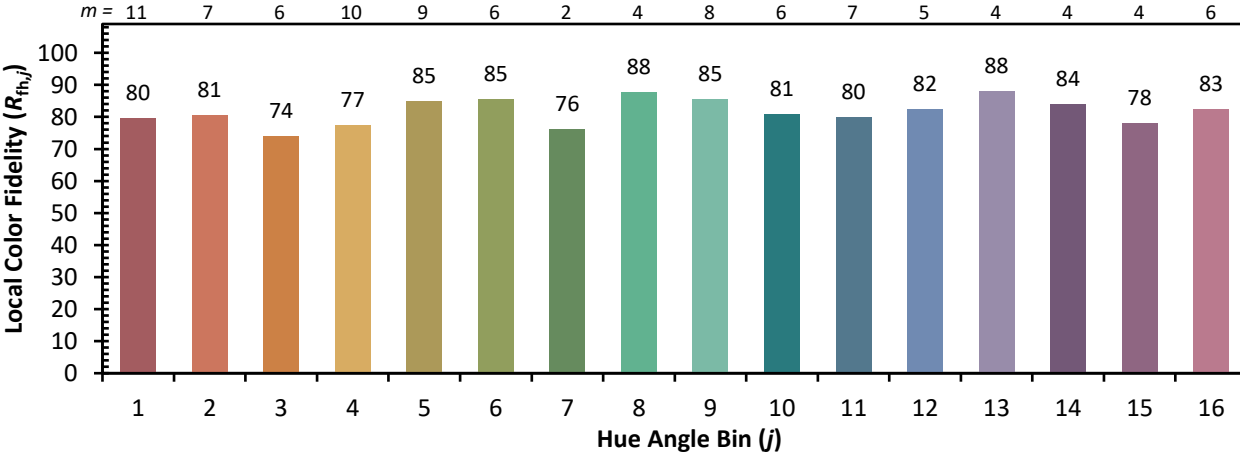


Individual Sample Fidelity Index ($R_{f,i}$)

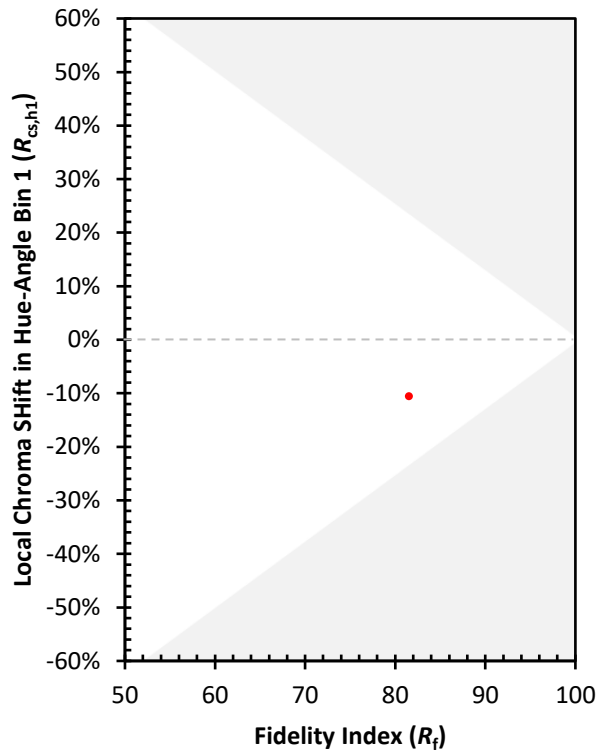
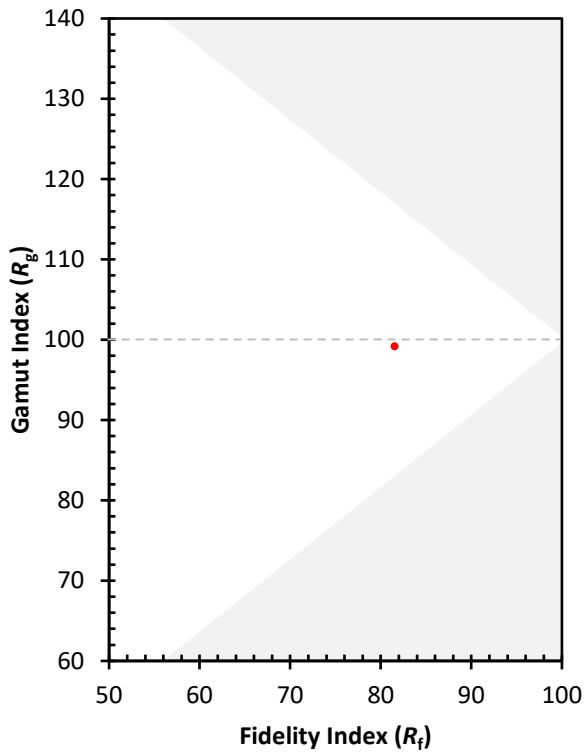
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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