

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: P635016

Luminaire Tested: GWS-SA3C-830-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6709.4 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

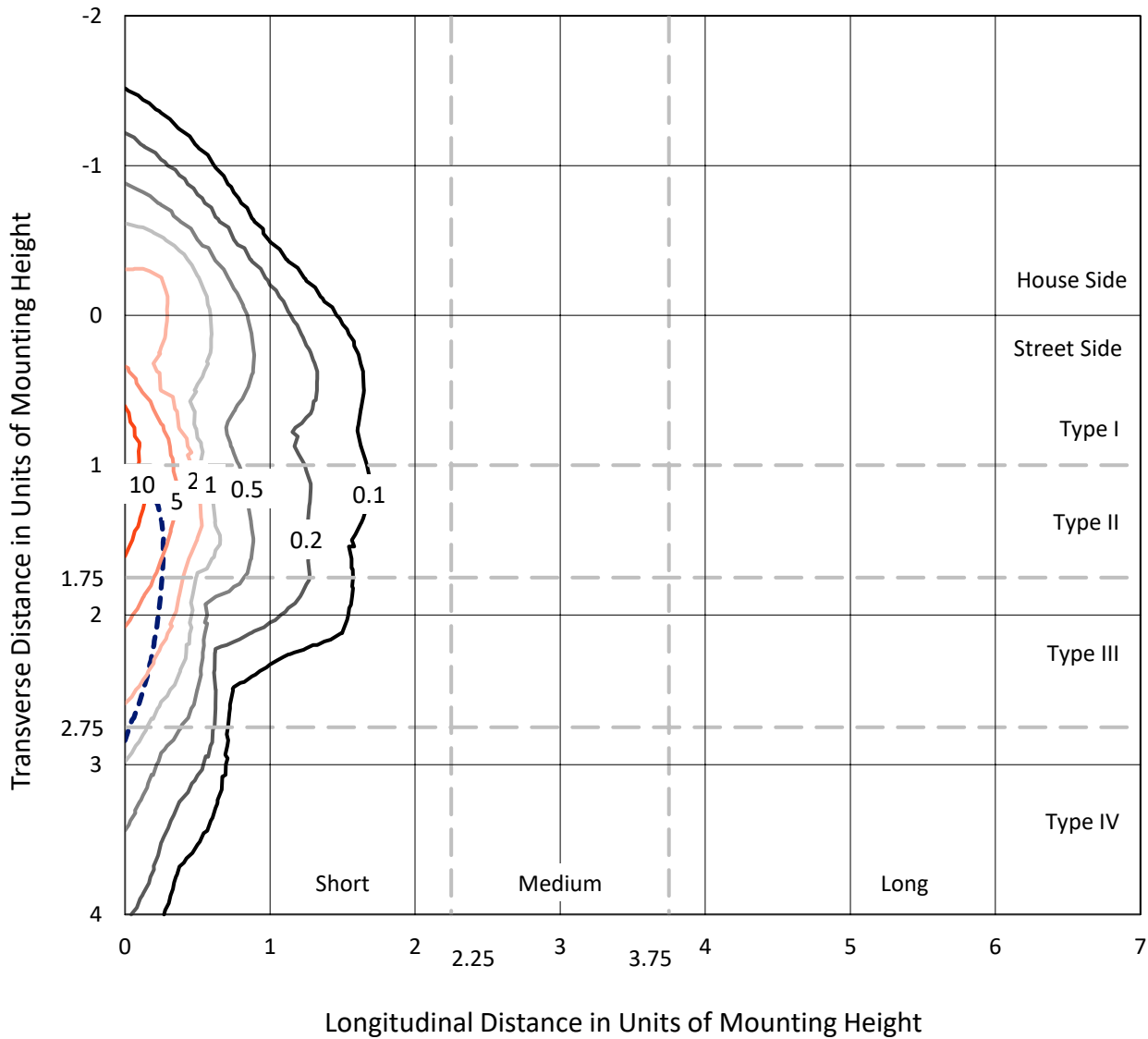
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

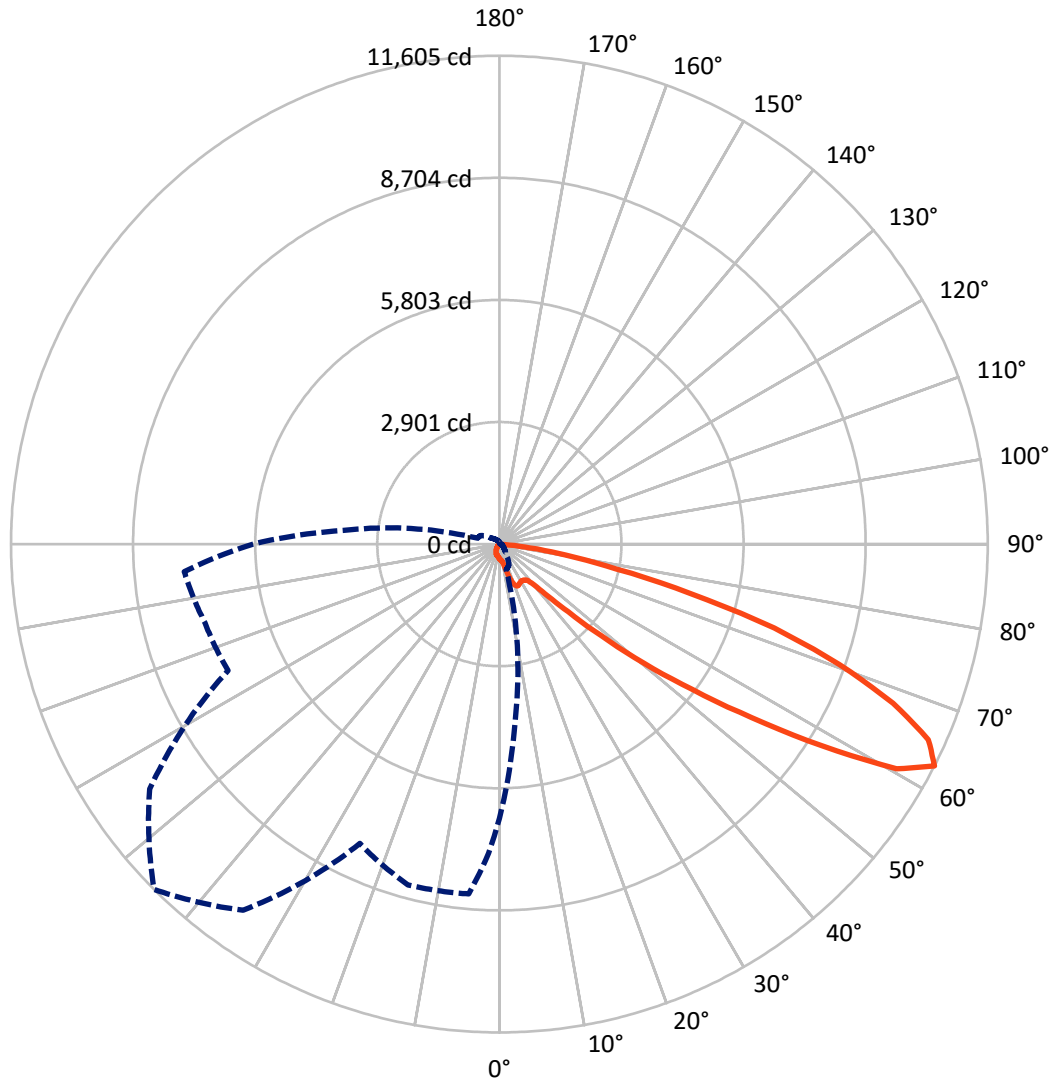
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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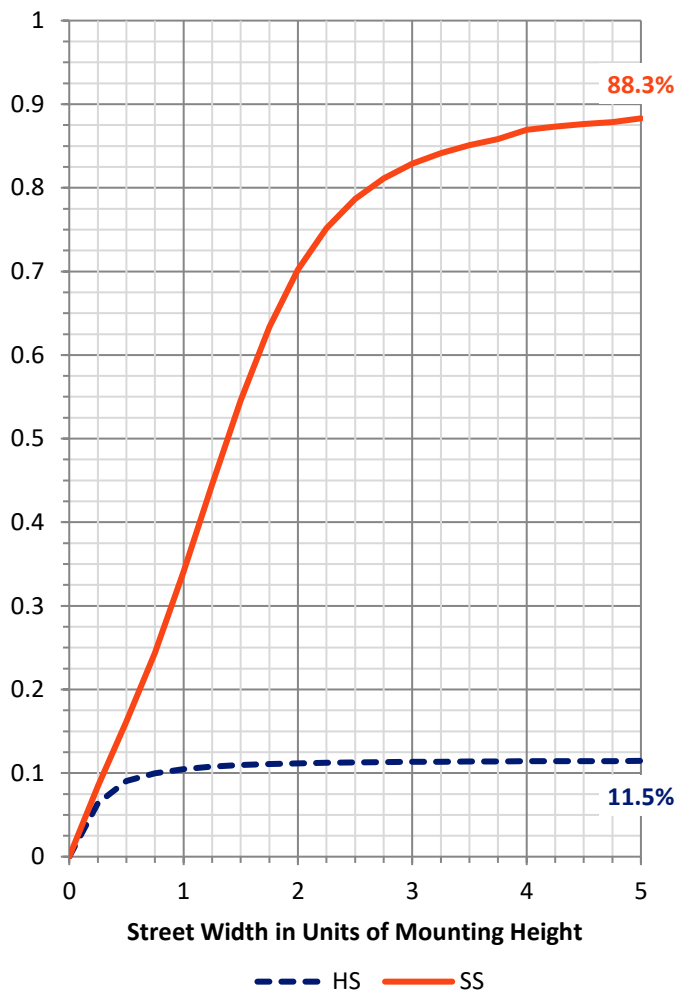
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.5	0.0	779.5
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	5929.9	0.0	5929.9
	% Fixture	88.4	0.0	88.4
Total	Lumens	6709.4	0.0	6709.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	0.4
10°-20°	103.0	1.5
20°-30°	232.7	3.5
30°-40°	400.8	6.0
40°-50°	756.1	11.3
50°-60°	1688.1	25.2
60°-70°	2257.9	33.7
70°-80°	1132.3	16.9
80°-90°	108.5	1.6
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°	6709.4	100.0
0°-180°	6709.4	100.0

Coefficient of Utilization



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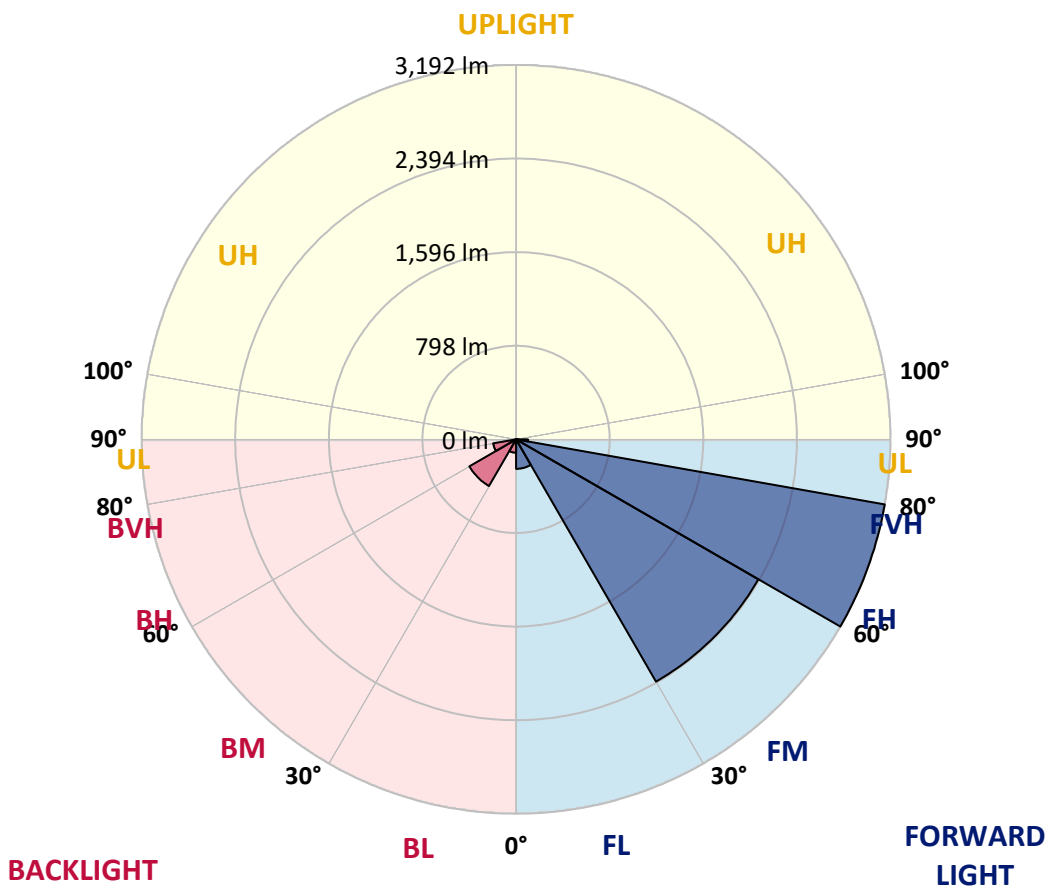
CATALOG NUMBER: GWS-SA3C-830-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.3	3.7			
FM (30°-60°)	2385.4	35.6			
FH (60°-80°)	3191.9	47.6			G2/5000
FVH (80°-90°)	101.3	1.5			G2/225
BL (0°-30°)	114.4	1.7	B1/500		
BM (30°-60°)	459.7	6.9	B1/1000		
BH (60°-80°)	198.2	3.0	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0
2.5°	344.0	343.2	341.6	336.8	332.9	330.5	325.7	325.7	324.9	323.3	320.2
5°	332.9	329.7	326.5	317.8	308.2	302.7	296.3	295.5	295.5	293.9	293.1
7.5°	315.4	312.2	308.2	293.9	285.2	279.6	274.1	273.3	270.9	270.9	270.9
10°	305.9	301.1	294.7	278.8	270.1	265.3	261.4	259.0	257.4	255.0	254.2
12.5°	326.5	317.8	304.3	275.7	263.7	257.4	252.6	251.0	246.3	243.1	240.7
15°	390.9	369.4	342.4	282.8	261.4	251.8	245.5	242.3	238.3	232.8	228.8
17.5°	496.5	465.5	420.3	305.9	259.0	247.1	239.1	233.6	228.0	221.6	216.9
20°	642.7	596.6	542.6	348.0	259.0	241.5	232.0	224.8	216.9	209.7	204.2
22.5°	828.6	782.5	690.4	419.5	262.2	234.4	223.2	213.7	204.2	197.8	191.5
25°	1036.7	971.6	885.8	506.1	270.9	224.8	212.9	203.4	194.6	186.7	179.5
27.5°	1268.7	1198.0	1083.6	629.2	290.0	215.3	201.8	193.0	185.1	177.2	167.6
30°	1482.4	1440.3	1323.5	776.9	320.9	208.9	193.0	185.1	177.2	166.8	158.1
32.5°	1739.0	1664.3	1568.2	945.4	362.3	202.6	185.9	174.8	168.4	158.9	149.4
35°	1997.2	1933.6	1807.3	1152.7	408.3	196.2	177.2	166.8	161.3	150.1	139.8
37.5°	2263.3	2249.0	2124.3	1382.3	453.6	189.1	166.8	160.5	154.9	142.2	130.3
40°	2525.5	2499.3	2384.1	1644.5	481.4	181.1	158.1	154.1	147.8	133.5	120.0
42.5°	2776.5	2756.7	2644.6	1895.5	477.5	174.0	149.4	144.6	139.8	125.5	108.8
45°	3084.8	3052.2	2910.8	2081.4	436.9	181.9	140.6	132.7	131.9	118.4	97.7
47.5°	3661.5	3554.3	3314.4	2224.4	396.4	202.6	131.1	121.5	127.1	111.2	86.6
50°	4469.4	4343.1	3996.0	2335.6	395.6	229.6	129.5	111.2	123.1	105.7	77.1
52.5°	5281.4	5058.9	4637.1	2395.2	425.0	249.5	143.8	100.9	118.4	100.1	69.9
55°	6059.1	5597.5	4905.6	2198.2	448.1	270.9	170.0	95.3	109.6	93.7	65.9
57.5°	6800.3	6030.5	5022.4	1739.0	525.1	279.6	185.9	97.7	96.9	85.8	62.8
60°	6902.0	6009.8	4786.4	1011.3	579.1	264.5	179.5	108.8	85.0	76.3	57.2
62.5°	6517.5	5610.2	4248.6	630.8	537.8	259.0	159.7	123.9	77.1	67.5	50.0
65°	5933.6	4983.4	3542.4	406.7	407.5	287.6	139.8	121.5	72.3	59.6	42.9
67.5°	5020.8	4170.7	2790.8	272.5	230.4	245.5	122.3	83.4	70.7	50.8	33.4
70°	3664.7	2968.8	1816.9	181.9	137.4	196.2	102.5	59.6	66.7	42.1	23.8
72.5°	2678.8	1994.8	1014.5	119.2	77.9	114.4	75.5	42.9	51.6	31.0	16.7
75°	1928.1	1372.8	579.1	76.3	51.6	62.8	49.3	29.4	33.4	24.6	15.1
77.5°	927.9	668.9	263.0	42.1	35.0	31.8	26.2	18.3	20.7	22.2	13.5
80°	35.0	26.2	19.9	20.7	22.2	14.3	11.9	9.5	11.9	15.1	7.1
82.5°	0.0	0.0	0.0	2.4	3.2	4.0	4.8	4.0	4.8	5.6	0.8
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°	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0
2.5°	322.5	320.9	322.5	324.1	325.7	327.3	324.9	326.5	328.1	324.1	325.7
5°	297.1	296.3	301.1	303.5	306.6	308.2	306.6	306.6	305.9	301.1	301.1
7.5°	274.9	275.7	279.6	285.2	289.2	291.6	290.0	289.2	286.8	279.6	279.6
10°	258.2	258.2	264.5	269.3	274.9	277.3	275.7	273.3	270.9	263.7	263.0
12.5°	244.7	244.7	249.5	257.4	263.7	266.9	266.1	263.0	259.0	251.8	251.0
15°	232.0	231.2	238.3	245.5	254.2	258.2	256.6	254.2	247.1	240.7	239.1
17.5°	219.3	218.5	224.8	234.4	243.9	249.5	248.7	243.1	236.7	228.8	227.2
20°	206.6	205.0	212.9	222.4	232.0	237.5	235.9	231.2	223.2	215.3	213.7
22.5°	193.8	193.0	198.6	206.6	215.3	220.1	219.3	215.3	207.3	200.2	200.2
25°	179.5	179.5	183.5	189.1	195.4	197.8	198.6	197.0	192.3	188.3	188.3
27.5°	167.6	165.2	166.8	168.4	171.6	175.6	175.6	177.2	178.0	176.4	177.2
30°	158.1	154.1	151.7	148.6	147.0	148.6	150.1	155.7	161.3	164.4	166.0
32.5°	147.0	142.2	135.8	127.1	121.5	120.0	124.7	135.1	145.4	152.5	156.5
35°	135.8	129.5	117.6	104.9	97.7	95.3	100.9	112.8	127.9	140.6	146.2
37.5°	124.7	116.0	99.3	84.2	76.3	74.7	80.2	92.9	110.4	127.9	135.1
40°	112.0	101.7	81.8	65.9	59.6	58.0	62.8	75.5	93.7	113.6	124.7
42.5°	99.3	86.6	65.9	52.4	46.1	46.1	52.4	62.0	78.6	100.1	113.6
45°	86.6	73.1	54.0	42.1	38.1	38.9	42.9	52.4	65.9	88.2	100.9
47.5°	74.7	62.8	44.5	35.0	31.8	32.6	37.3	45.3	56.4	76.3	89.8
50°	64.3	53.2	38.9	29.4	27.0	28.6	33.4	40.5	50.0	67.5	78.6
52.5°	58.0	47.7	35.7	25.4	23.8	25.4	30.2	36.5	45.3	59.6	70.7
55°	54.8	46.9	35.7	23.0	20.7	22.2	27.0	33.4	40.5	54.0	63.6
57.5°	54.0	48.5	38.1	20.7	17.5	19.1	23.8	30.2	37.3	49.3	57.2
60°	50.8	46.1	37.3	16.7	13.5	15.9	19.9	26.2	34.2	46.1	53.2
62.5°	44.5	40.5	32.6	13.5	10.3	11.9	16.7	23.0	31.0	42.1	50.0
65°	36.5	32.6	25.4	8.7	6.4	7.9	12.7	19.9	27.0	38.1	45.3
67.5°	27.0	23.0	17.5	5.6	3.2	5.6	10.3	16.7	24.6	34.2	41.3
70°	16.7	13.5	9.5	3.2	2.4	4.8	9.5	15.9	22.2	31.8	38.9
72.5°	9.5	6.4	4.0	1.6	2.4	4.8	9.5	15.9	21.4	30.2	36.5
75°	7.1	4.0	1.6	0.8	1.6	4.0	8.7	14.3	20.7	28.6	35.0
77.5°	4.8	2.4	0.8	0.0	0.8	3.2	7.9	13.5	19.1	27.0	33.4
80°	0.8	0.0	0.0	0.0	0.0	2.4	7.1	11.9	17.5	23.8	29.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	5.6	10.3	15.1	19.9	23.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.9	11.9	15.1	16.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.9	9.5	11.1
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°	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0
2.5°	324.9	329.7	329.7	332.9	336.8	344.0	348.0	353.5	357.5	361.5	363.1
5°	300.3	301.1	301.9	303.5	308.2	316.2	323.3	332.1	342.4	350.3	355.1
7.5°	279.6	279.6	279.6	282.0	286.8	292.3	299.5	311.4	323.3	332.9	340.8
10°	262.2	264.5	265.3	269.3	274.9	282.0	290.0	300.3	313.8	326.5	340.8
12.5°	251.0	253.4	257.4	261.4	266.9	274.9	283.6	297.1	324.9	351.1	381.3
15°	240.7	243.9	248.7	254.2	260.6	269.3	278.8	306.6	371.8	421.0	468.7
17.5°	229.6	234.4	240.7	246.3	254.2	263.7	275.7	329.7	457.6	539.4	620.4
20°	215.3	221.6	228.8	237.5	247.1	258.2	275.7	377.4	581.5	699.1	806.3
22.5°	201.8	208.1	216.9	228.0	239.1	250.2	279.6	449.6	741.2	889.8	1025.6
25°	190.7	198.6	207.3	216.9	229.6	242.3	289.2	551.3	933.5	1124.9	1221.0
27.5°	180.3	189.9	198.6	206.6	217.7	232.0	310.6	687.2	1160.7	1355.3	1430.8
30°	170.0	181.1	189.9	197.8	208.9	224.0	343.2	860.4	1413.3	1602.4	1610.3
32.5°	161.3	171.6	181.9	189.9	200.2	217.7	388.5	1062.9	1672.3	1855.0	1780.3
35°	151.7	163.7	173.2	181.9	193.0	212.1	440.9	1281.4	1933.6	2087.0	1949.5
37.5°	142.2	155.7	167.6	174.0	185.1	206.6	479.0	1509.4	2200.6	2313.4	2098.1
40°	133.5	148.6	162.1	168.4	174.0	199.4	484.6	1743.0	2471.5	2536.6	2237.9
42.5°	123.9	140.6	152.5	161.3	166.0	194.6	451.2	1940.0	2698.7	2759.0	2420.6
45°	113.6	133.5	143.0	149.4	158.9	197.8	408.3	2092.5	2958.4	3062.5	2721.7
47.5°	103.3	125.5	133.5	138.2	150.9	216.9	392.4	2194.2	3386.6	3602.7	3229.3
50°	93.7	118.4	127.1	126.3	149.4	241.5	409.9	2271.3	4030.1	4284.3	3925.3
52.5°	83.4	110.4	120.8	117.6	161.3	260.6	444.9	2332.4	4525.1	5083.5	4860.3
55°	74.7	101.7	111.2	110.4	183.5	274.9	471.9	2009.9	4730.0	5826.3	5913.7
57.5°	68.3	92.2	100.1	113.6	197.8	274.9	545.8	1426.8	4734.0	6372.9	7311.9
60°	62.8	83.4	89.0	124.7	192.3	260.6	540.2	873.9	4363.0	6335.6	8055.5
62.5°	58.0	75.5	82.6	127.9	170.0	258.2	487.8	541.8	3721.1	5853.3	7516.1
65°	54.0	69.1	79.4	117.6	154.1	276.5	328.9	389.3	3018.0	5303.6	6897.2
67.5°	50.0	63.6	84.2	96.1	139.8	247.1	237.5	276.5	2369.0	4700.6	6329.2
70°	46.9	60.4	89.0	78.6	122.3	193.0	168.4	209.7	1813.7	3922.1	5529.2
72.5°	44.5	56.4	74.7	62.0	99.3	149.4	117.6	152.5	1185.3	3061.7	4507.6
75°	42.1	51.6	54.8	50.0	73.9	97.7	89.0	102.5	706.2	2237.9	3420.0
77.5°	41.3	48.5	44.5	40.5	50.0	58.0	67.5	69.1	344.8	1119.3	1792.2
80°	36.5	43.7	38.1	33.4	34.2	38.1	50.0	46.1	78.6	284.4	478.2
82.5°	28.6	34.2	31.8	27.8	27.8	27.8	33.4	31.0	25.4	127.9	216.1
85°	19.9	23.8	23.8	22.2	21.4	21.4	20.7	19.9	7.1	7.9	11.9
87.5°	13.5	16.7	17.5	16.7	14.3	12.7	11.1	9.5	3.2	0.0	1.6
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°	358°	360°
0°	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0
2.5°	368.6	371.0	371.0	367.8	365.4	359.1	352.7	346.4	344.8	344.0
5°	368.6	378.1	382.9	382.1	376.6	366.2	352.7	338.4	334.5	332.9
7.5°	363.1	381.3	395.6	398.0	387.7	369.4	344.8	323.3	317.8	315.4
10°	375.8	411.5	440.1	444.1	432.2	396.4	356.7	320.2	311.4	305.9
12.5°	444.1	502.9	537.8	554.5	531.5	486.2	420.3	355.1	335.2	326.5
15°	582.3	665.7	732.5	732.5	711.0	630.8	547.4	441.7	414.7	390.9
17.5°	759.5	864.3	923.1	916.8	884.2	827.8	727.7	576.0	521.1	496.5
20°	961.3	1024.0	1037.5	1033.5	1019.3	986.7	917.6	754.7	680.8	642.7
22.5°	1136.0	1119.3	1099.5	1083.6	1079.6	1089.2	1079.6	954.1	896.1	828.6
25°	1254.4	1159.9	1100.3	1071.7	1085.2	1140.0	1199.6	1152.7	1106.6	1036.7
27.5°	1318.7	1155.1	1069.3	1039.9	1062.9	1140.8	1270.3	1349.7	1302.1	1268.7
30°	1353.7	1151.1	1049.4	1020.8	1055.8	1153.5	1319.5	1534.0	1535.6	1482.4
32.5°	1403.8	1176.5	1053.4	1027.2	1074.1	1191.6	1381.5	1721.5	1767.6	1739.0
35°	1460.2	1215.5	1071.7	1047.8	1105.8	1242.5	1450.6	1910.6	2006.7	1997.2
37.5°	1513.4	1259.2	1114.6	1091.5	1154.3	1286.2	1517.4	2096.5	2230.0	2263.3
40°	1569.0	1320.3	1246.5	1268.7	1303.7	1355.3	1576.9	2257.8	2475.4	2525.5
42.5°	1700.1	1532.5	1645.3	1687.4	1692.1	1585.7	1707.2	2464.3	2716.9	2776.5
45°	1992.4	1909.8	2233.1	2292.7	2261.7	1939.2	2021.0	2762.2	3054.6	3084.8
47.5°	2361.8	2400.0	3037.9	3243.6	3057.8	2356.3	2401.6	3389.0	3672.6	3661.5
50°	2792.4	2972.7	3951.5	4436.9	3992.0	2898.1	2840.1	4159.6	4503.6	4469.4
52.5°	3301.6	3638.5	5049.4	5738.9	5317.9	3507.4	3483.6	5180.5	5390.2	5281.4
55°	3942.7	4281.2	6312.5	7276.2	6677.2	4251.0	4332.8	6364.2	6404.7	6059.1
57.5°	4899.2	5119.3	7801.3	9039.0	8096.0	5261.5	5854.9	7939.5	7454.9	6800.3
60°	6635.9	6197.3	9240.0	10842.3	9605.4	6682.7	7862.4	8873.0	7804.5	6902.0
62.5°	7240.4	7112.5	10140.9	11605.0	10620.7	7849.7	8384.4	8343.9	7351.6	6517.5
65°	6324.4	6884.5	9979.6	11202.2	10490.4	7657.5	7524.0	7760.0	6841.6	5933.6
67.5°	5842.2	6349.1	9368.7	10090.8	9768.3	7005.3	6706.6	6642.2	5743.7	5020.8
70°	5356.0	5858.1	8482.9	8572.7	8422.5	5942.3	5549.9	5118.5	4293.1	3664.7
72.5°	4771.3	5047.8	7253.9	6828.1	6658.1	4667.3	4584.6	3854.6	3218.2	2678.8
75°	4161.2	4081.0	5655.5	4686.3	4813.4	3631.3	3872.0	2830.5	2357.9	1928.1
77.5°	3026.8	2967.2	3787.8	2846.4	3152.3	2378.5	2137.0	1129.7	1075.7	927.9
80°	1689.0	2036.1	2045.7	1595.2	1990.0	1550.7	534.6	37.3	23.8	35.0
82.5°	784.9	875.5	1109.0	739.6	1135.2	768.2	110.4	0.0	0.0	0.0
85°	254.2	371.8	311.4	108.8	274.9	259.8	18.3	0.0	0.0	0.0
87.5°	15.1	31.0	7.9	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

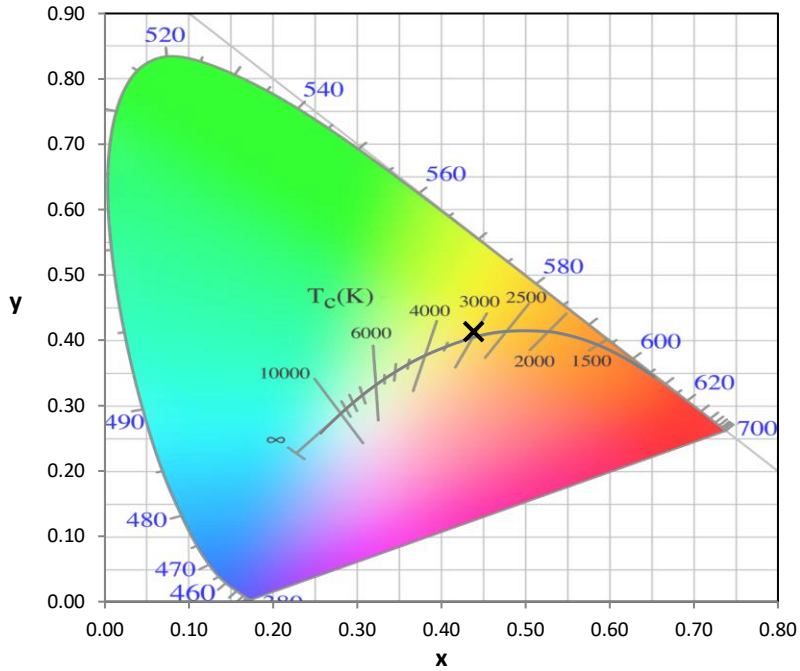
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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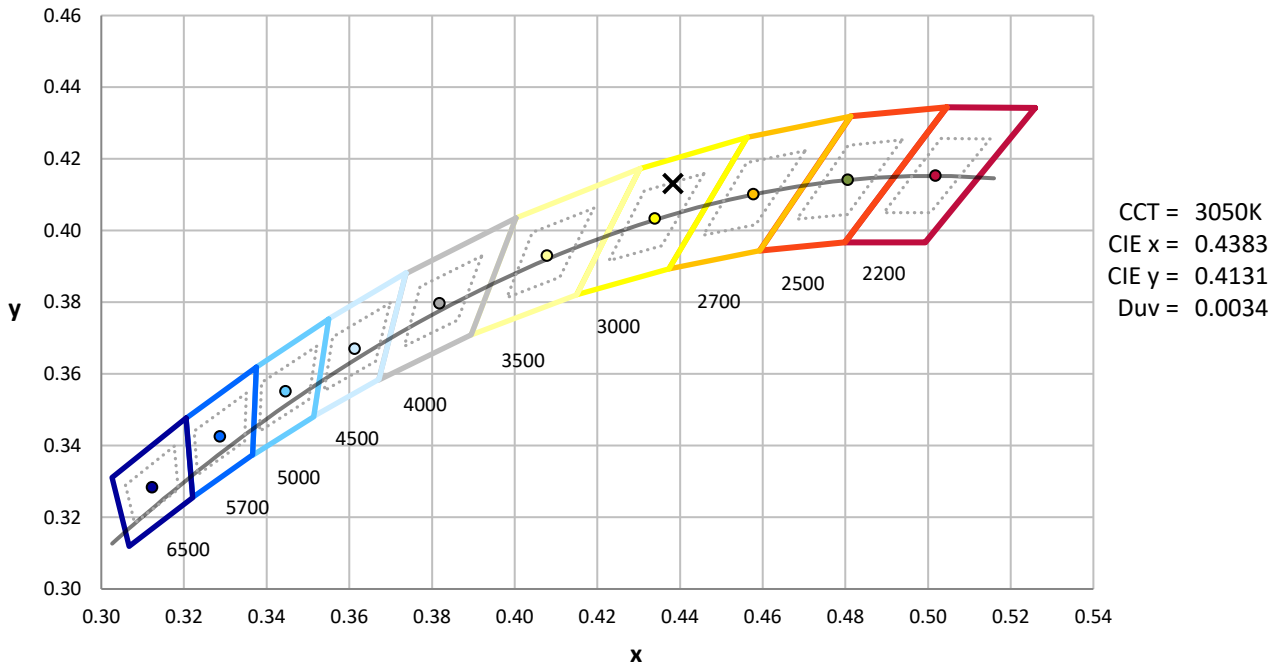
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

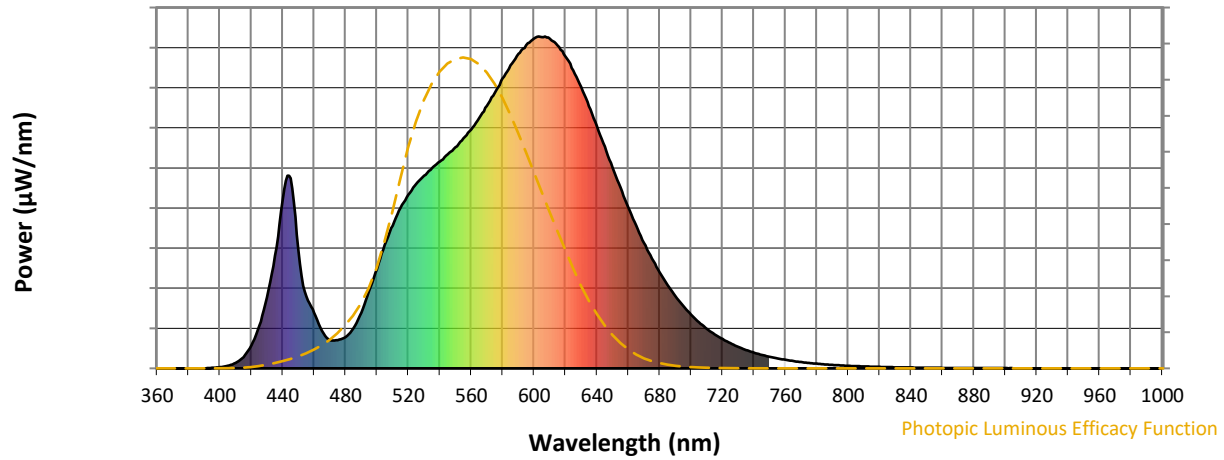


CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

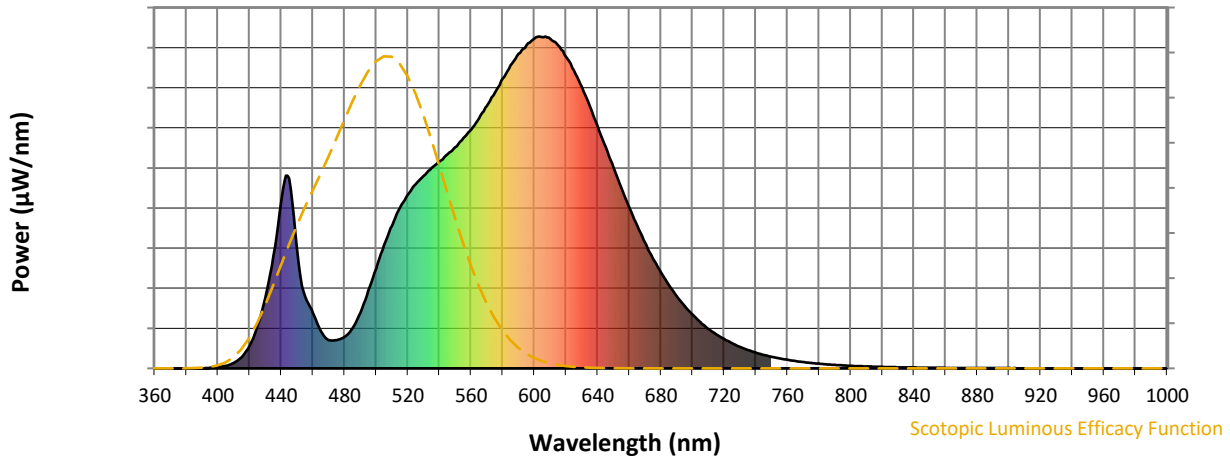


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



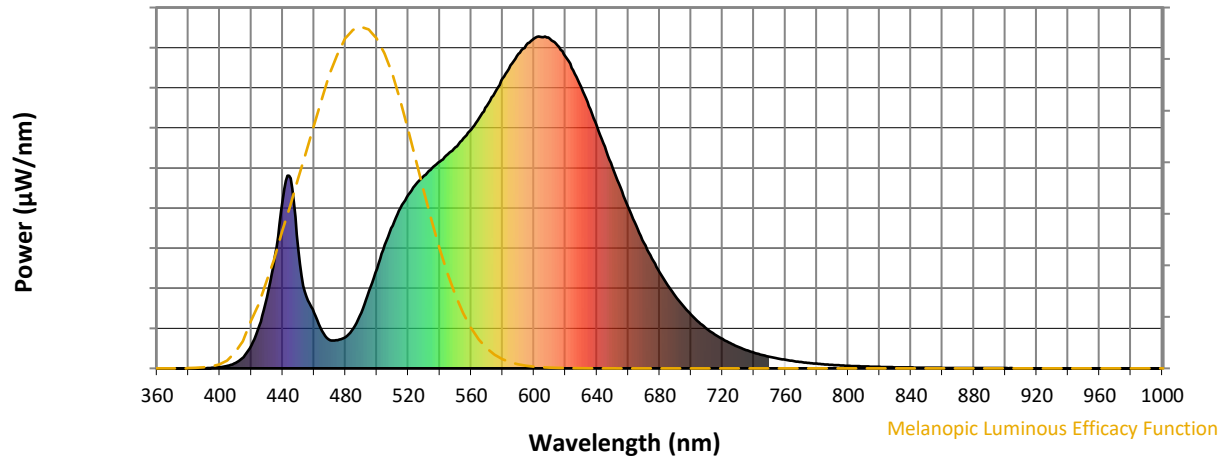
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

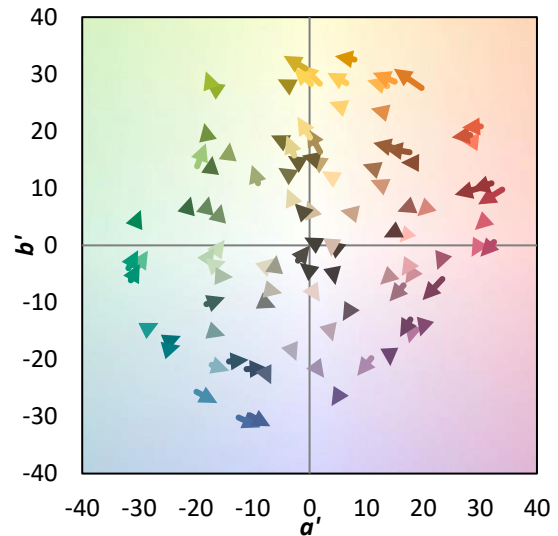
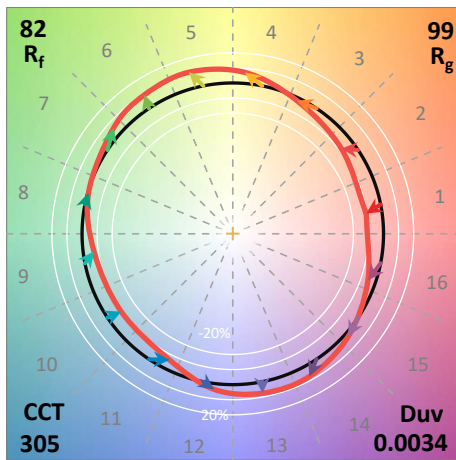
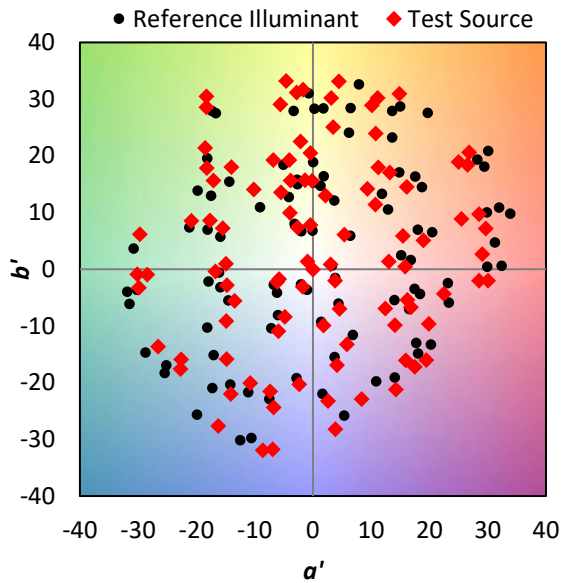
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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

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

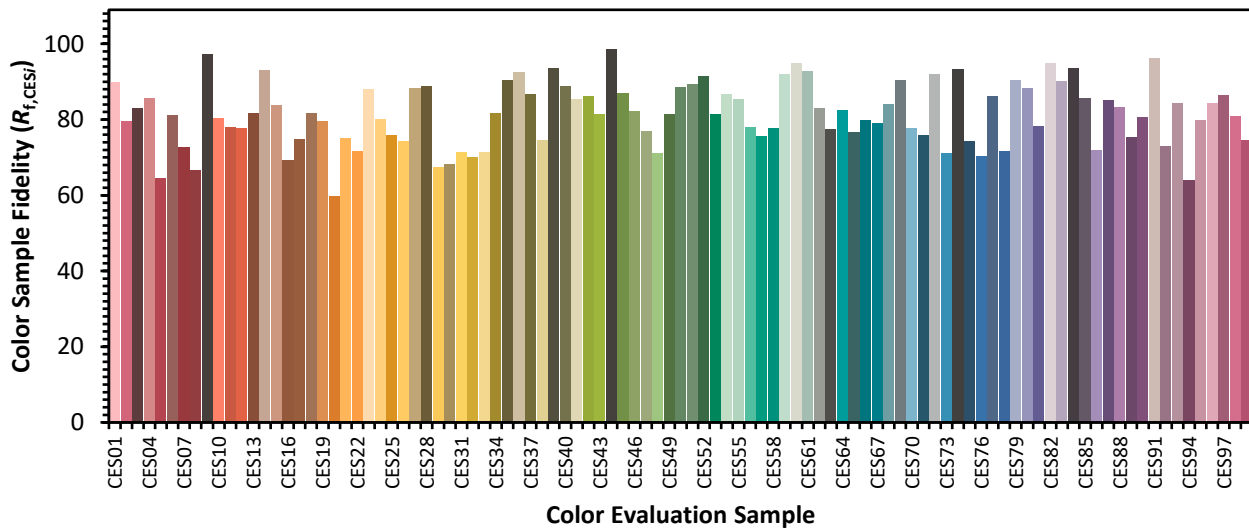


Color Vector Graphics

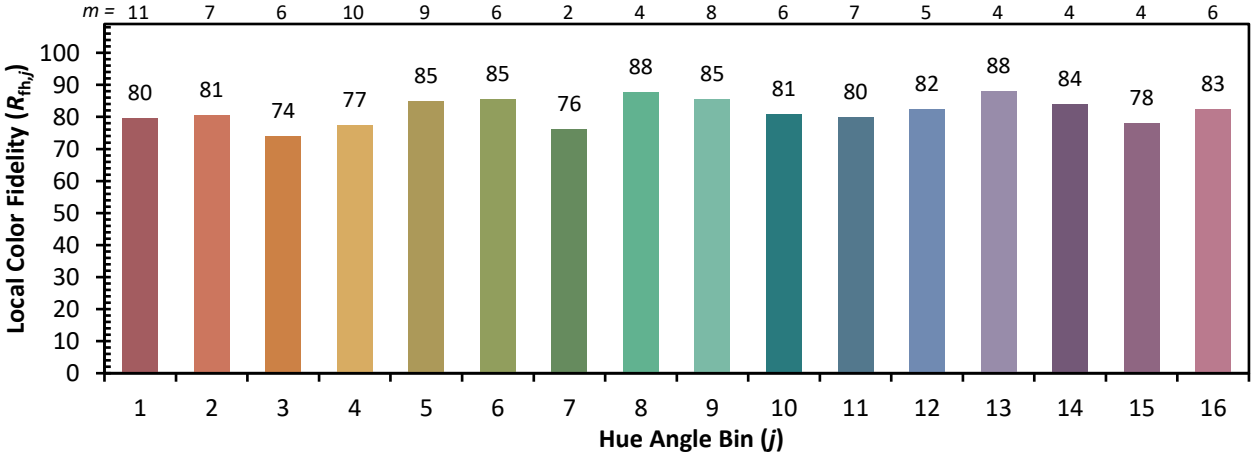
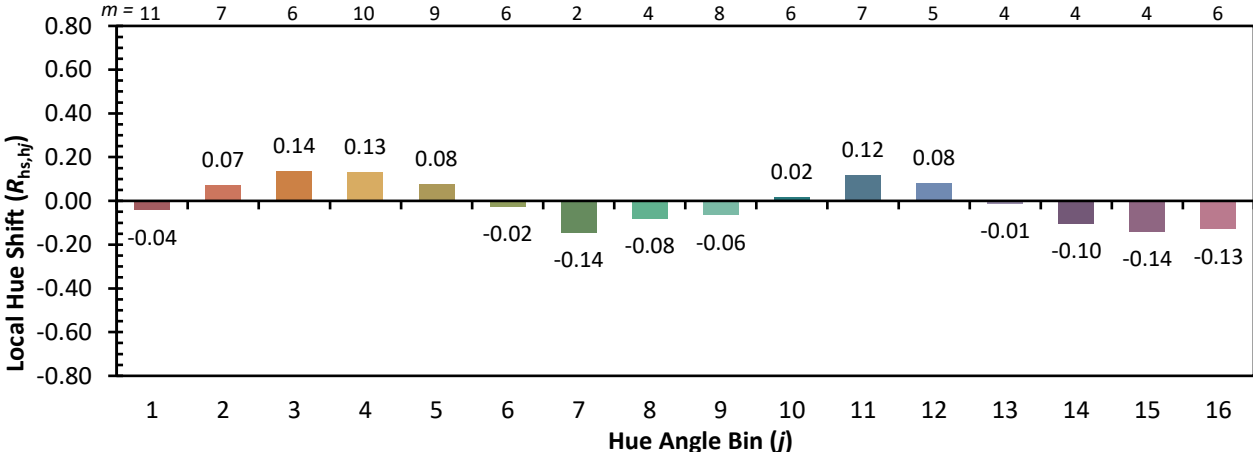
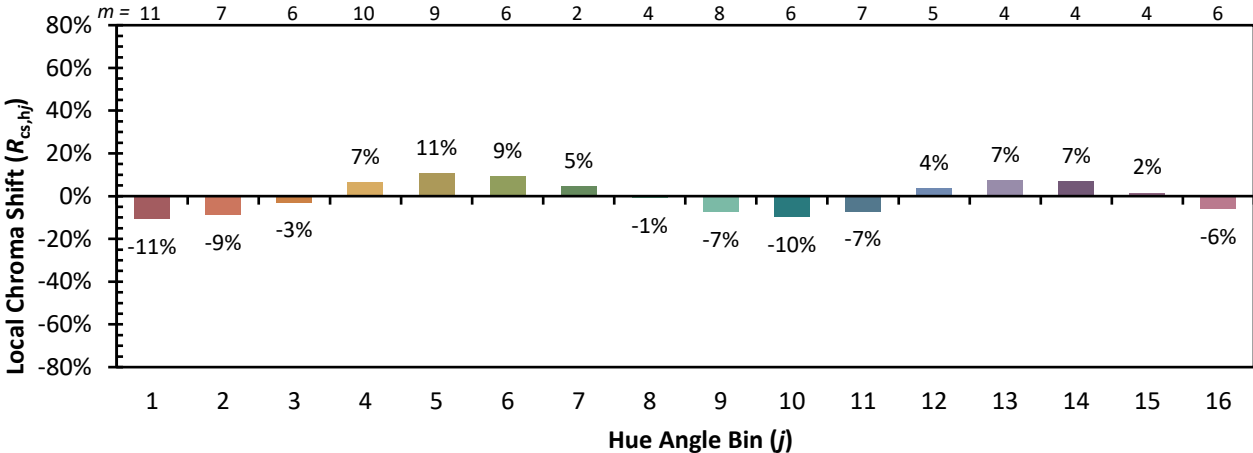


Individual Sample Fidelity Index ($R_{f,i}$)

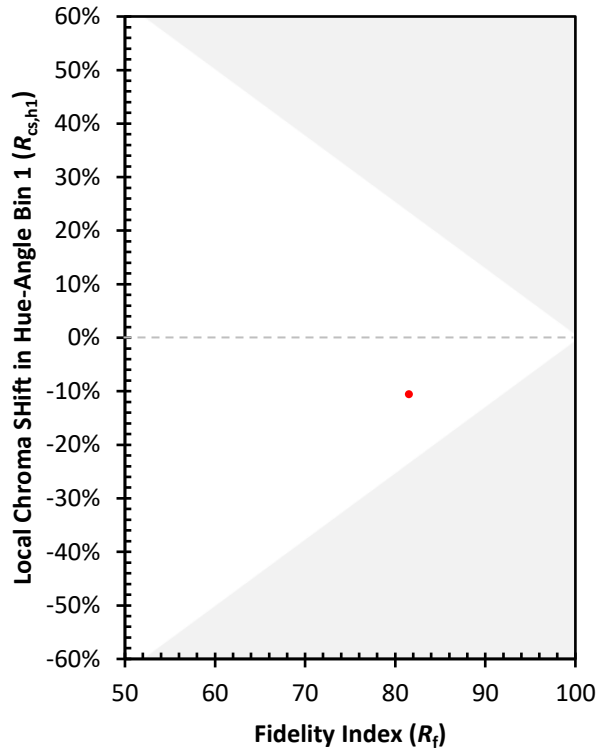
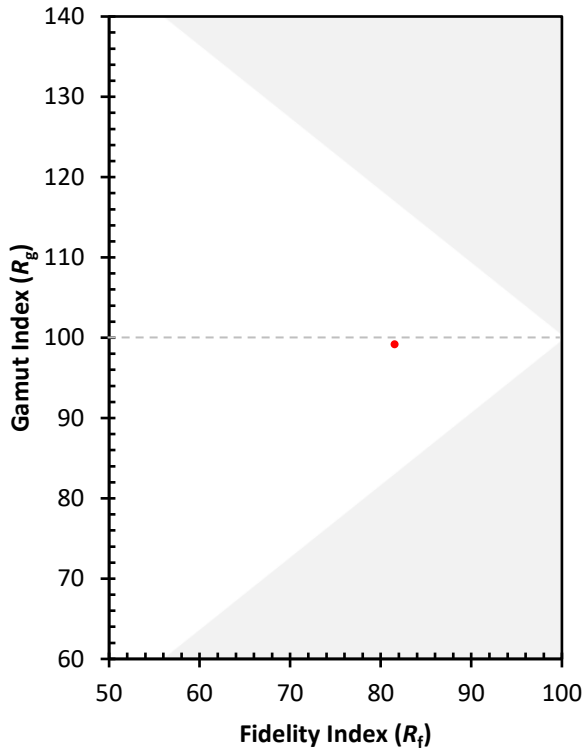
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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