

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: P635020

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6877 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

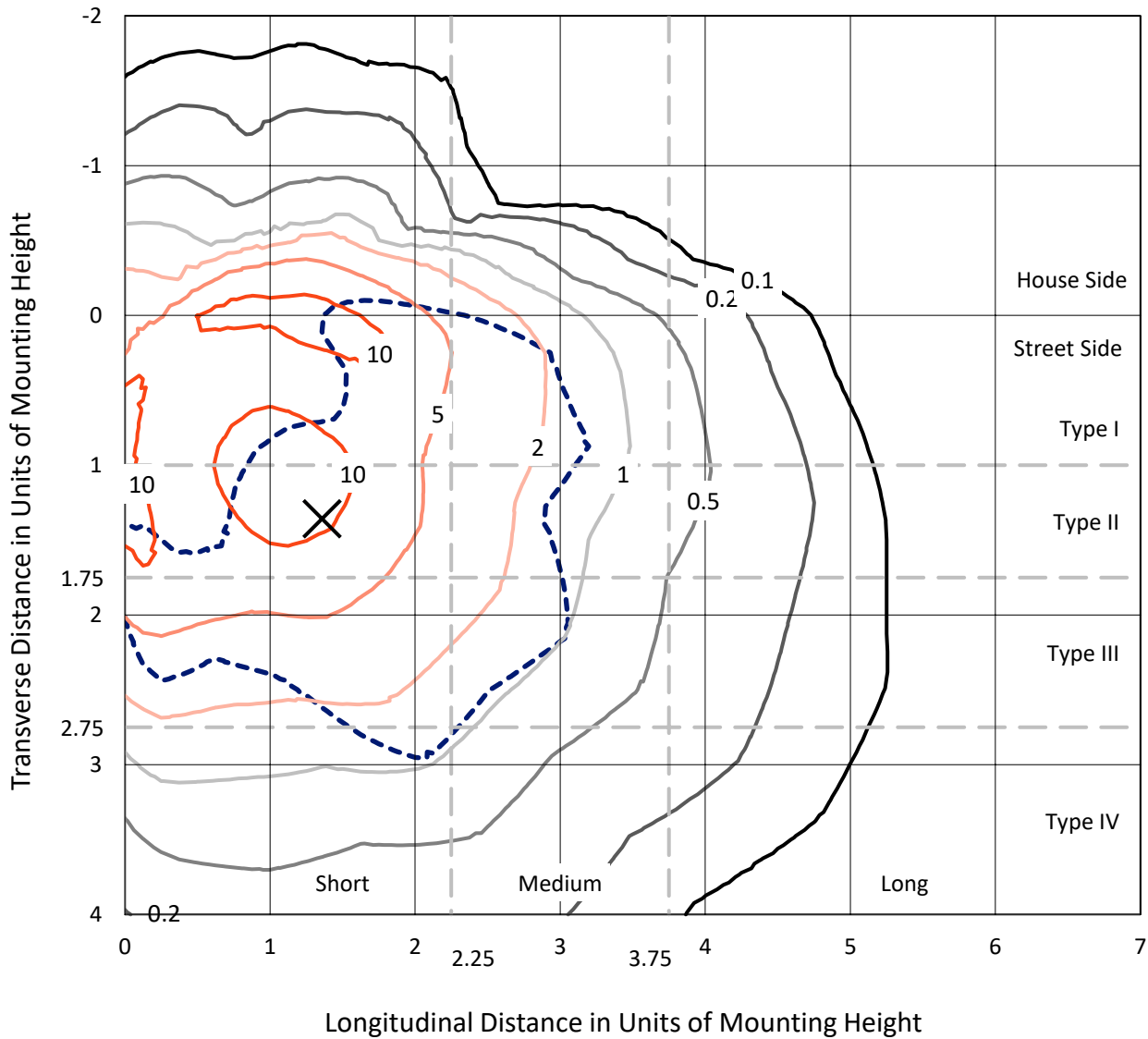
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

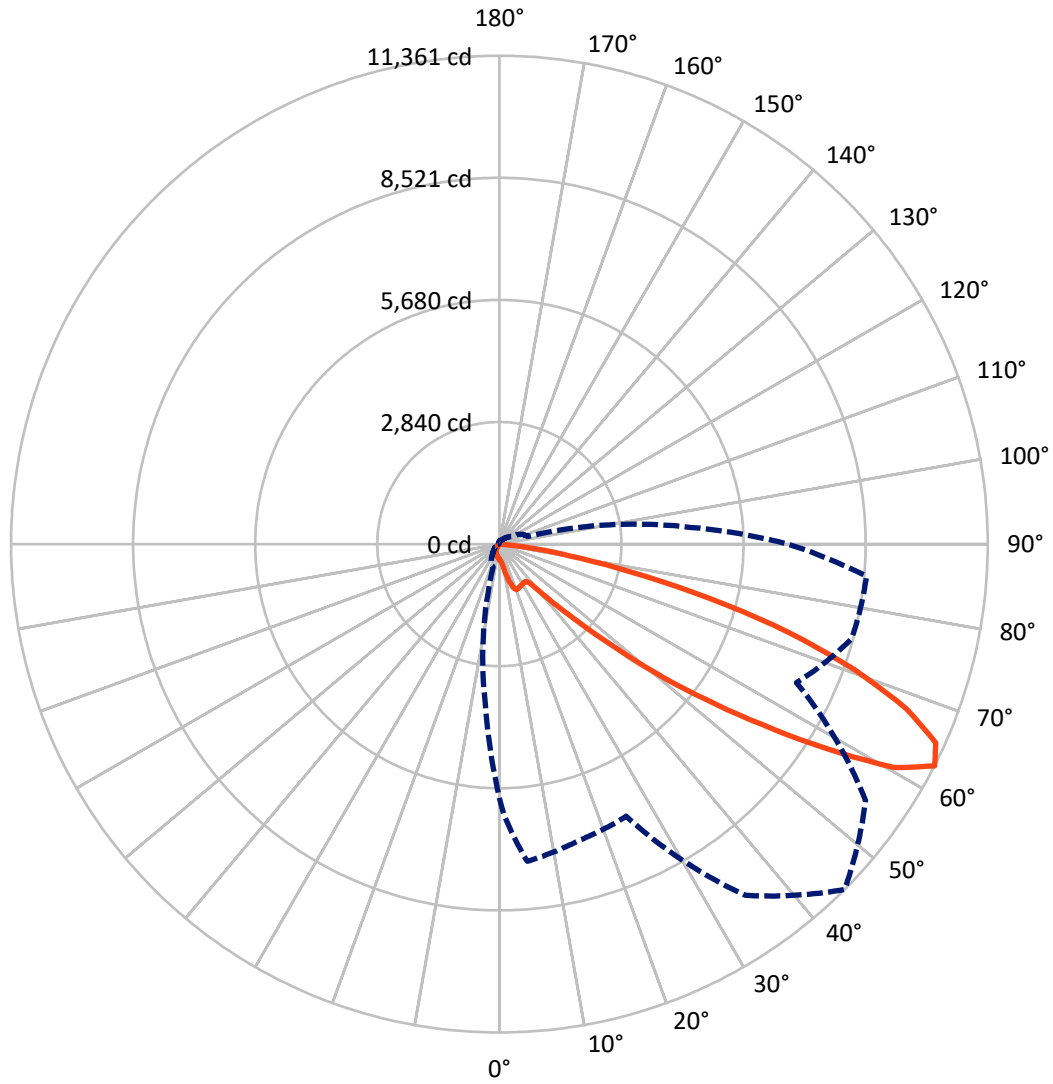
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	848.6	0.0	848.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6028.4	0.0	6028.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	6877.0	0.0	6877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	0.5
10°-20°	119.9	1.7
20°-30°	260.6	3.8
30°-40°	427.8	6.2
40°-50°	786.4	11.4
50°-60°	1688.9	24.6
60°-70°	2268.4	33.0
70°-80°	1181.2	17.2
80°-90°	112.0	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°	6877.0	100.0
0°-180°	6877.0	100.0

Coefficient of Utilization



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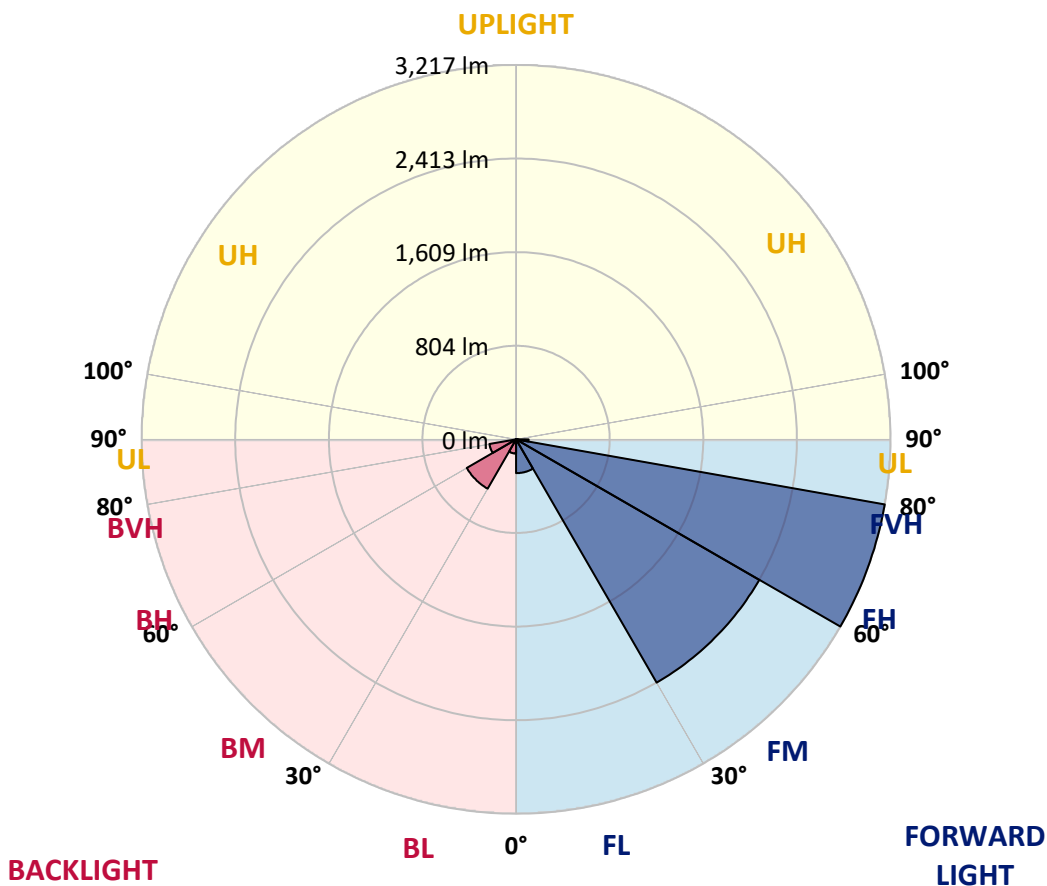
CATALOG NUMBER: GWS-SA3C-830-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.5	4.2			
FM (30°-60°)	2413.7	35.1			
FH (60°-80°)	3217.1	46.8			G2/5000
FVH (80°-90°)	107.0	1.6			G2/225
BL (0°-30°)	121.7	1.8	B1/500		
BM (30°-60°)	489.4	7.1	B1/1000		
BH (60°-80°)	232.5	3.4	B1/500		G1/500
BVH (80°-90°)	5.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	364.6	366.2	367.8	373.3	377.3	380.5	381.3	378.9	373.3	367.8	359.8
5°	353.5	355.1	360.6	375.7	390.8	402.7	406.7	404.3	390.8	373.3	355.1
7.5°	352.7	355.9	369.4	401.1	433.7	458.3	464.7	459.1	433.7	398.8	361.4
10°	381.3	386.9	406.7	463.9	523.5	567.2	584.6	560.8	520.3	456.8	395.6
12.5°	456.0	465.5	503.6	587.0	679.2	737.2	761.0	731.6	668.1	575.9	479.0
15°	573.5	587.8	645.0	769.7	878.6	930.2	938.1	921.5	847.6	745.9	615.6
17.5°	739.5	760.2	849.2	976.3	1054.9	1073.2	1070.8	1053.3	999.3	929.4	806.3
20°	938.1	962.8	1050.1	1155.0	1162.9	1141.5	1129.6	1119.2	1101.0	1089.1	992.9
22.5°	1138.3	1168.5	1259.8	1286.1	1214.6	1152.6	1123.2	1131.2	1158.2	1217.0	1178.0
25°	1337.7	1366.3	1452.1	1381.4	1238.4	1135.1	1097.8	1116.9	1181.2	1308.3	1358.3
27.5°	1570.4	1591.9	1642.7	1446.5	1242.4	1120.8	1084.3	1113.7	1192.3	1365.5	1556.1
30°	1812.7	1825.4	1800.8	1464.0	1228.9	1099.4	1070.8	1113.7	1211.4	1403.6	1704.7
32.5°	1990.7	1993.0	1912.8	1465.6	1221.7	1081.9	1058.1	1108.9	1229.7	1435.4	1848.5
35°	2174.2	2162.2	2020.0	1489.4	1240.8	1088.3	1067.6	1122.4	1258.3	1472.7	1974.8
37.5°	2360.0	2338.6	2140.0	1528.3	1290.0	1157.4	1144.7	1191.5	1304.3	1524.4	2113.8
40°	2550.7	2521.3	2264.7	1587.1	1399.7	1392.5	1436.2	1430.6	1430.6	1590.3	2256.8
42.5°	2783.4	2749.3	2449.0	1753.1	1655.4	1815.1	1934.3	1860.4	1723.8	1742.0	2442.6
45°	3090.8	3061.4	2768.3	2070.9	2056.6	2423.6	2584.0	2437.9	2097.9	2092.3	2753.2
47.5°	3582.5	3577.0	3277.5	2439.5	2547.5	3198.1	3507.9	3226.7	2524.5	2463.3	3341.1
50°	4273.6	4257.0	3912.2	2871.6	3131.4	4157.7	4710.5	4241.9	3040.0	2896.2	4128.3
52.5°	5052.1	5069.6	4801.1	3343.4	3751.7	5225.3	5995.0	5404.8	3600.0	3446.7	5118.8
55°	5785.3	5885.4	5814.7	3895.5	4357.8	6404.1	7405.8	6680.5	4293.5	4167.2	6229.3
57.5°	6358.8	6640.8	7136.5	4697.8	5070.4	7783.1	8981.0	8063.5	5102.9	5337.3	7741.0
60°	6390.6	6763.9	7915.0	6376.3	5987.1	8965.9	10553.8	9414.7	6375.5	7324.0	8925.4
62.5°	5911.6	6312.0	7408.2	7138.9	6985.6	9972.3	11360.9	10399.7	7627.4	8487.7	8574.3
65°	5363.5	5767.8	6842.6	6273.8	6869.6	9929.4	11155.9	10422.7	7741.0	7696.5	7945.9
67.5°	4535.0	4898.0	5871.1	5553.3	6331.8	9450.4	10209.1	9765.8	7131.7	7198.5	7309.7
70°	3310.1	3659.6	4562.8	4578.7	5529.5	8587.0	8772.1	8710.9	6567.7	6638.4	6320.7
72.5°	2391.0	2685.7	3465.0	3754.9	4414.2	7200.8	7072.9	7308.9	5635.2	5912.4	5076.7
75°	1719.0	1939.8	2541.9	3266.4	3499.1	5347.6	5063.2	5660.6	4521.5	5091.0	3816.9
77.5°	697.4	775.3	1000.1	2200.4	2299.7	3597.6	3099.6	4111.6	3223.5	3345.0	1850.1
80°	28.6	31.8	41.3	1135.9	1576.8	2024.0	1658.6	2198.0	2128.9	1347.2	436.9
82.5°	3.2	3.2	7.1	327.3	690.3	1116.9	781.6	1266.2	1077.9	571.1	198.6
85°	0.8	0.8	1.6	37.3	162.0	178.7	105.6	388.4	501.2	233.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.1	7.9	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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	359.8	355.9	351.1	346.3	344.0	337.6	335.2	333.6	332.0	332.8	332.8
5°	347.9	339.2	328.9	318.5	313.0	306.6	303.4	301.9	302.6	305.8	305.8
7.5°	346.3	329.7	307.4	293.9	287.6	282.8	279.6	278.0	278.8	282.8	284.4
10°	372.6	343.2	303.4	280.4	273.3	268.5	265.3	262.9	261.3	264.5	265.3
12.5°	429.0	388.4	322.5	278.8	266.1	259.8	257.4	252.6	250.2	251.8	252.6
15°	545.7	475.8	360.6	285.2	259.8	252.6	248.6	244.7	240.7	239.9	240.7
17.5°	698.2	598.1	418.6	300.3	255.0	246.3	240.7	235.1	229.6	228.8	228.0
20°	887.3	748.3	499.6	324.1	251.0	240.7	232.7	224.8	217.7	215.3	215.3
22.5°	1059.7	929.4	603.7	353.5	245.5	232.7	223.2	213.7	205.7	201.8	201.0
25°	1270.2	1121.6	728.4	387.6	237.5	222.4	212.1	202.6	194.6	189.9	188.3
27.5°	1482.3	1324.2	869.8	432.1	228.0	212.1	202.6	193.8	185.1	179.5	177.9
30°	1688.0	1542.6	1028.7	487.7	220.8	201.8	193.8	185.1	177.1	168.4	166.0
32.5°	1908.8	1765.9	1206.6	549.7	215.3	194.6	185.9	177.9	167.6	159.7	155.7
35°	2121.7	1996.2	1402.8	610.1	209.7	188.3	178.7	170.8	159.7	150.9	145.4
37.5°	2336.2	2230.6	1607.8	646.6	201.8	179.5	170.8	164.4	151.7	141.4	135.0
40°	2563.4	2472.8	1829.4	631.5	194.6	170.0	165.2	158.1	143.8	131.9	123.9
42.5°	2812.8	2704.0	2055.0	573.5	188.3	162.0	157.3	150.1	136.6	122.3	112.0
45°	3126.6	2957.4	2240.1	486.1	191.4	154.1	144.6	143.0	130.3	112.0	99.3
47.5°	3666.0	3346.6	2383.9	429.7	212.9	145.4	134.2	138.2	124.7	101.7	87.4
50°	4491.3	3991.6	2518.1	425.8	245.5	141.4	124.7	135.0	119.2	91.4	77.1
52.5°	5277.7	4647.0	2603.9	460.7	274.1	151.7	115.2	131.1	115.2	84.2	69.9
55°	6030.0	5025.1	2450.6	486.1	301.1	182.7	108.0	124.7	110.4	80.2	67.5
57.5°	6841.0	5193.5	1929.5	537.8	320.1	208.9	109.6	115.2	104.1	77.8	66.7
60°	7083.3	4978.2	1164.5	605.3	309.8	216.9	121.5	102.5	95.3	73.1	64.3
62.5°	6706.7	4467.5	687.1	551.3	301.1	204.9	139.0	94.5	86.6	66.7	59.6
65°	6143.5	3774.0	448.0	465.5	319.3	182.7	147.8	90.6	78.6	60.4	52.4
67.5°	5500.1	3040.0	313.8	274.8	294.7	164.4	124.7	89.8	70.7	50.8	42.9
70°	4632.7	2276.6	220.8	181.9	245.5	146.2	96.9	87.4	62.0	41.3	33.4
72.5°	3579.4	1425.1	164.4	117.6	174.8	119.2	77.1	73.9	50.0	34.2	25.4
75°	2639.6	812.6	116.0	85.0	115.2	90.6	57.2	52.4	42.9	32.6	23.0
77.5°	1378.2	406.7	72.3	65.1	65.9	56.4	41.3	38.1	39.7	32.6	21.4
80°	264.5	81.0	43.7	47.7	35.7	35.7	30.2	31.8	35.0	26.2	18.3
82.5°	110.4	17.5	23.8	27.0	22.2	24.6	24.6	25.4	24.6	19.1	13.5
85°	0.0	0.0	10.3	11.1	15.1	15.1	12.7	12.7	12.7	11.1	7.9
87.5°	0.0	0.0	0.0	0.0	0.8	2.4	4.8	5.6	6.4	4.8	3.2
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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	332.0	330.5	332.8	334.4	336.0	336.0	334.4	332.8	330.5	332.8	330.5
5°	306.6	309.0	313.0	314.6	316.2	313.0	311.4	306.6	302.6	303.4	301.9
7.5°	286.8	289.1	293.9	297.1	297.1	295.5	290.7	286.0	279.6	279.6	278.8
10°	268.5	271.7	277.2	281.2	282.8	281.2	276.4	270.1	264.5	264.5	262.1
12.5°	253.4	257.4	263.7	269.3	270.9	269.3	264.5	258.2	251.8	251.8	250.2
15°	240.7	245.5	252.6	259.0	261.3	259.0	253.4	245.5	239.1	239.9	237.5
17.5°	228.8	232.7	242.3	249.4	251.8	249.4	242.3	232.0	225.6	227.2	225.6
20°	215.3	220.0	229.6	237.5	239.9	237.5	229.6	218.4	212.1	212.1	212.9
22.5°	201.0	205.7	215.3	220.8	224.0	221.6	213.7	203.4	197.0	197.0	197.8
25°	188.3	190.6	197.8	203.4	204.1	201.8	195.4	187.5	182.7	185.1	185.9
27.5°	176.3	176.3	179.5	182.7	181.9	179.5	177.1	170.8	170.0	172.4	174.8
30°	163.6	159.7	158.1	155.7	154.9	154.1	156.5	156.5	158.1	161.3	163.6
32.5°	152.5	144.6	137.4	130.3	126.3	129.5	135.8	141.4	147.0	151.7	154.1
35°	139.8	127.1	115.2	105.6	99.3	104.1	114.4	124.7	134.2	140.6	144.6
37.5°	127.1	108.8	94.5	82.6	77.8	81.8	92.9	107.2	121.5	129.5	135.0
40°	113.6	90.6	73.9	64.3	59.6	63.5	74.7	89.0	108.0	118.4	125.5
42.5°	100.1	74.7	59.6	50.0	47.7	50.0	58.8	73.1	93.7	106.4	116.0
45°	86.6	62.0	47.7	40.5	38.1	40.5	47.7	59.6	80.2	94.5	105.6
47.5°	74.7	52.4	39.7	33.4	31.8	34.2	39.7	50.0	67.5	81.8	94.5
50°	65.1	46.1	34.2	28.6	27.0	29.4	34.2	42.1	57.2	69.9	83.4
52.5°	58.8	42.9	30.2	24.6	23.8	25.4	29.4	35.7	48.5	59.6	72.3
55°	57.2	42.9	27.8	22.2	21.4	23.0	26.2	31.0	42.1	51.6	62.8
57.5°	58.8	46.1	26.2	19.1	18.3	19.9	23.0	27.0	36.5	44.5	54.8
60°	58.8	46.9	23.0	15.1	14.3	15.9	19.1	23.8	32.6	38.9	47.7
62.5°	53.2	42.9	19.1	11.9	10.3	11.9	15.9	19.9	28.6	35.0	42.1
65°	46.1	36.5	15.9	8.7	7.1	8.7	12.7	16.7	24.6	30.2	38.1
67.5°	37.3	27.8	11.9	6.4	4.8	6.4	9.5	13.5	20.7	26.2	34.2
70°	27.8	19.9	9.5	5.6	4.8	5.6	8.7	12.7	18.3	23.8	31.8
72.5°	20.7	13.5	7.9	5.6	4.0	5.6	7.9	11.9	17.5	23.0	30.2
75°	17.5	11.1	7.1	4.8	4.0	4.8	7.1	11.1	15.9	21.4	28.6
77.5°	16.7	10.3	6.4	4.0	3.2	4.0	6.4	9.5	14.3	19.9	27.8
80°	14.3	8.7	5.6	3.2	2.4	3.2	5.6	7.9	11.1	15.1	21.4
82.5°	11.1	7.1	4.0	1.6	0.8	1.6	4.0	4.8	7.1	8.7	12.7
85°	7.1	4.0	1.6	0.0	0.0	0.0	1.6	3.2	3.2	4.0	6.4
87.5°	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4
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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	335.2	336.0	337.6	340.0	345.5	350.3	355.1	361.4	364.6	364.6
5°	303.4	304.2	305.0	308.2	316.2	322.5	332.8	345.5	351.9	353.5
7.5°	278.8	280.4	282.0	284.4	292.3	301.1	314.6	338.4	350.3	352.7
10°	264.5	266.9	270.1	274.8	282.0	291.5	314.6	357.5	377.3	381.3
12.5°	253.4	257.4	260.5	266.1	274.8	289.9	336.0	411.5	446.4	456.0
15°	242.3	247.0	251.8	257.4	266.9	295.5	377.3	508.4	566.4	573.5
17.5°	231.2	236.7	243.1	249.4	261.3	309.0	442.5	642.6	723.7	739.5
20°	218.4	225.6	234.3	242.3	255.8	330.5	533.0	802.3	904.0	938.1
22.5°	204.9	213.7	224.0	234.3	249.4	356.7	642.6	973.9	1116.1	1138.3
25°	193.8	202.6	212.1	222.4	239.1	388.4	775.3	1186.8	1316.2	1337.7
27.5°	183.5	192.2	201.0	210.5	228.8	429.7	935.0	1413.2	1548.2	1570.4
30°	172.4	182.7	191.4	201.0	219.2	480.6	1119.2	1664.2	1792.1	1812.7
32.5°	162.8	173.2	181.9	191.4	212.1	536.2	1313.1	1886.6	1990.7	1990.7
35°	154.9	166.0	172.4	185.1	206.5	571.9	1496.6	2098.7	2177.3	2174.2
37.5°	146.2	159.7	164.4	173.2	199.4	575.9	1668.9	2322.7	2380.7	2360.0
40°	137.4	151.7	158.9	163.6	191.4	543.3	1858.0	2528.4	2577.7	2550.7
42.5°	129.5	140.6	150.9	156.5	186.7	486.1	2009.7	2748.5	2807.3	2783.4
45°	121.5	131.1	137.4	147.8	189.9	446.4	2140.0	3005.0	3108.3	3090.8
47.5°	113.6	121.5	125.5	141.4	211.3	428.2	2219.4	3402.2	3596.8	3582.5
50°	104.9	114.4	114.4	139.8	243.1	434.5	2288.5	3977.3	4278.4	4273.6
52.5°	96.1	106.4	104.9	151.7	267.7	463.9	2367.2	4484.9	5008.4	5052.1
55°	87.4	96.9	98.5	175.6	282.0	489.3	2062.9	4698.6	5632.0	5785.3
57.5°	77.8	83.4	102.5	193.8	277.2	563.2	1413.2	4737.5	6030.0	6358.8
60°	67.5	72.3	116.0	189.9	262.1	520.3	889.7	4388.0	5973.6	6390.6
62.5°	58.8	66.7	122.3	167.6	266.9	451.2	567.2	3739.8	5435.8	5911.6
65°	51.6	64.3	111.2	151.7	270.1	305.8	382.9	3042.4	4910.7	5363.5
67.5°	46.1	71.5	91.4	135.0	232.0	215.3	262.9	2364.0	4129.1	4535.0
70°	42.1	73.1	74.7	116.0	179.5	138.2	173.2	1591.1	2846.2	3310.1
72.5°	38.1	54.0	56.4	92.9	116.0	84.2	112.0	910.3	2074.9	2391.0
75°	36.5	36.5	38.9	60.4	64.3	61.2	72.3	543.3	1487.8	1719.0
77.5°	34.2	27.8	24.6	38.9	35.0	43.7	42.9	241.5	645.0	697.4
80°	27.0	19.9	16.7	24.6	23.8	29.4	25.4	19.9	29.4	28.6
82.5°	16.7	12.7	11.9	15.1	13.5	15.1	11.9	3.2	3.2	3.2
85°	7.9	7.1	6.4	6.4	7.1	6.4	4.8	1.6	0.8	0.8
87.5°	4.0	4.0	3.2	2.4	3.2	3.2	2.4	0.8	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			

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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

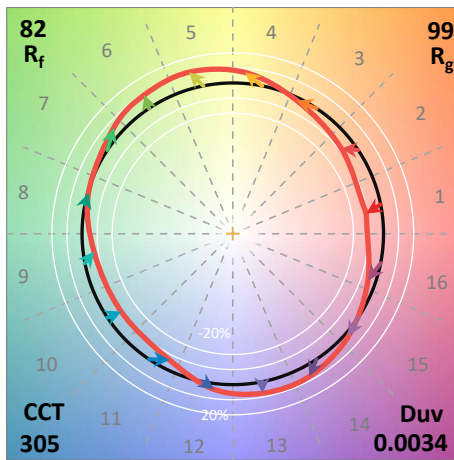
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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