

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: P647662

Luminaire Tested: **GALN-SA9D-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45168.9 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

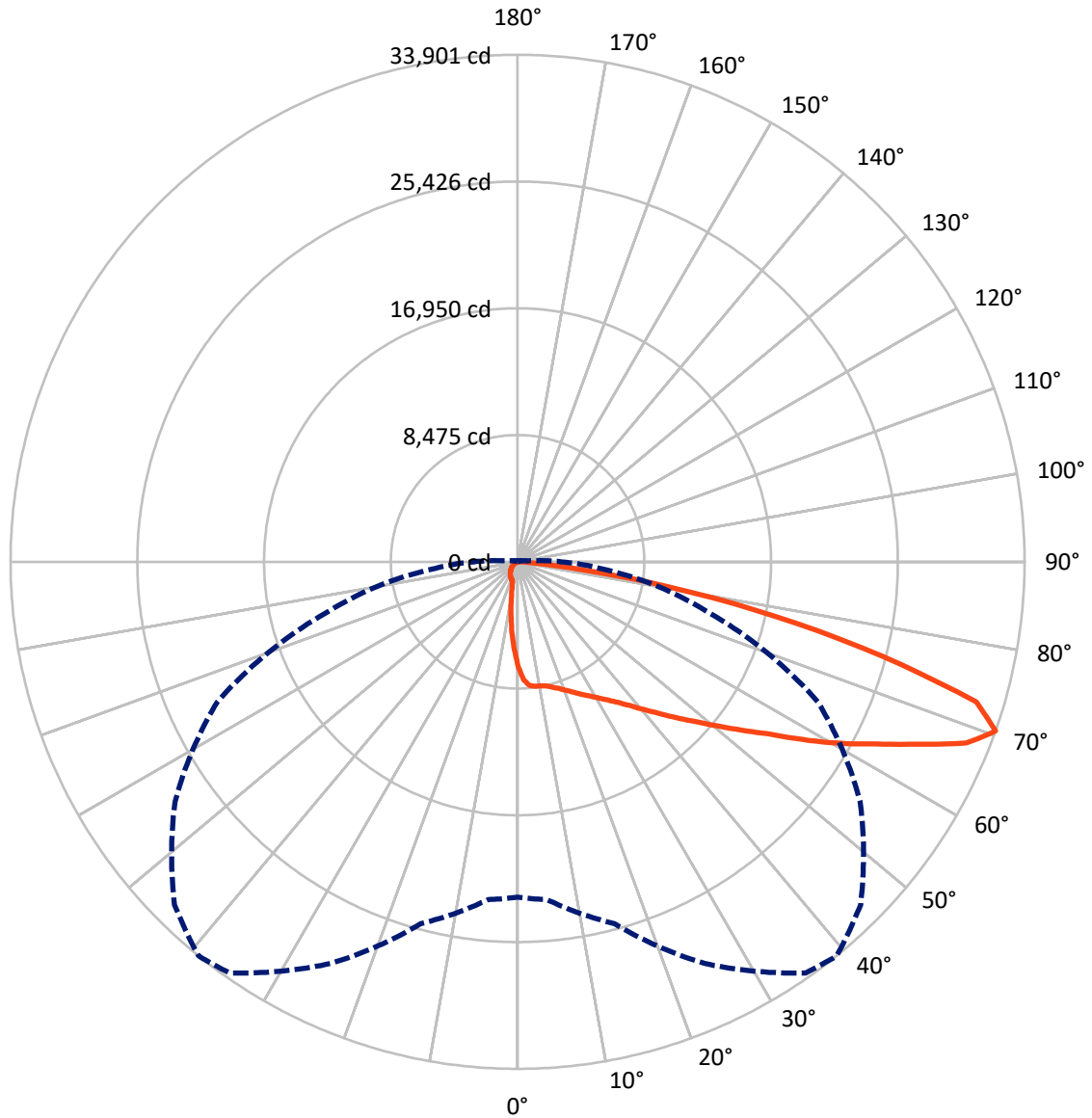
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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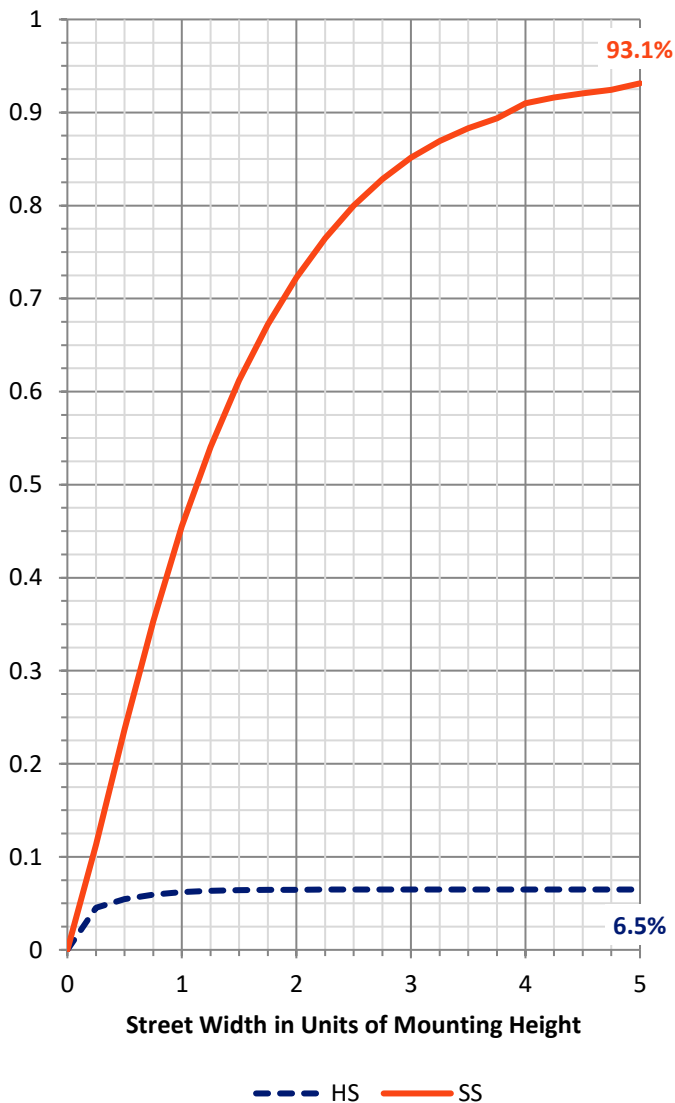
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2945.2	0.0	2945.2
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	42223.7	0.0	42223.7
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	45168.9	0.0	45168.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.1	1.3
10°-20°	1562.2	3.5
20°-30°	2617.1	5.8
30°-40°	4058.8	9.0
40°-50°	6431.9	14.2
50°-60°	9428.3	20.9
60°-70°	12084.8	26.8
70°-80°	7593.7	16.8
80°-90°	791.1	1.8
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°	45168.9	100.0
0°-180°	45168.9	100.0

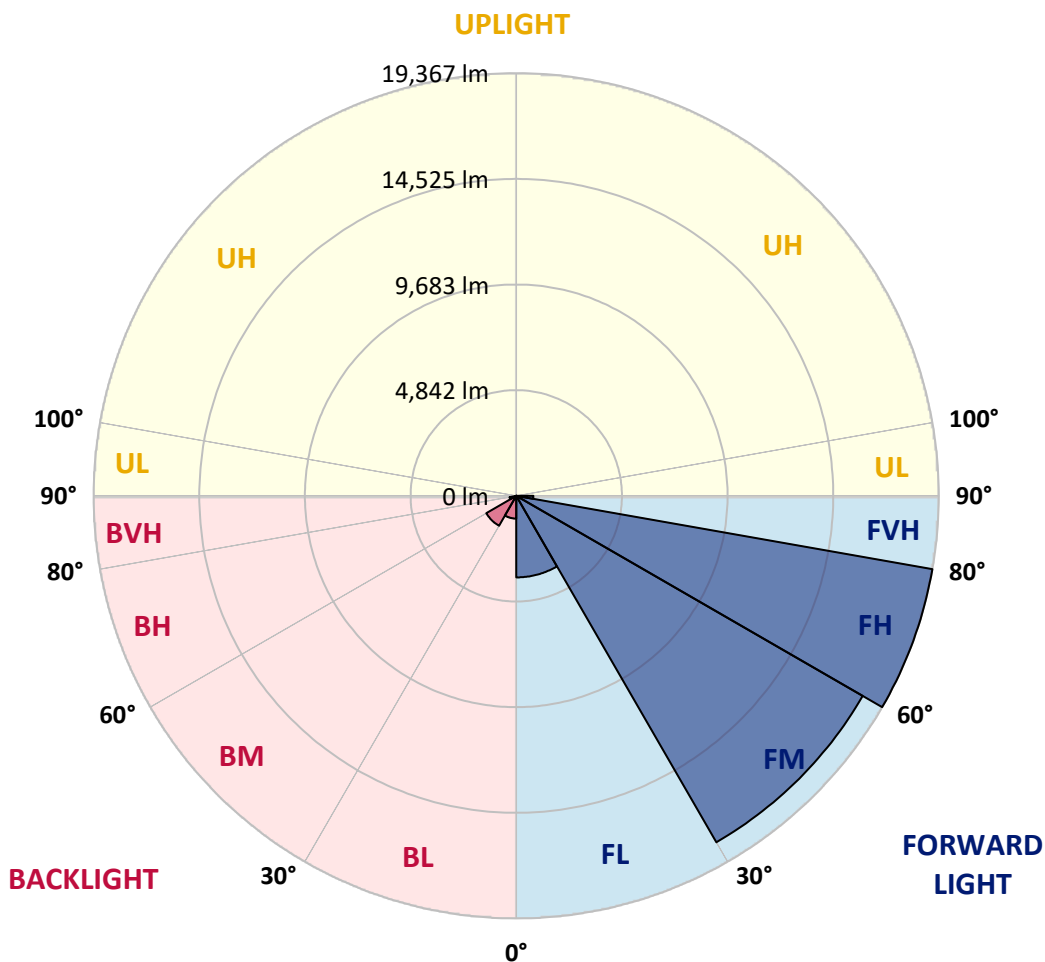


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3737.5	8.3			
FM (30°-60°)	18334.0	40.6			
FH (60°-80°)	19367.0	42.9			G5
FVH (80°-90°)	785.3	1.7			G5
BL (0°-30°)	1042.9	2.3	B3/2500		
BM (30°-60°)	1585.0	3.5	B2/2500		
BH (60°-80°)	311.5	0.7	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9
2.5°	8143.7	8116.3	8079.9	8037.4	7916.0	7894.8	7821.9	7667.1	7482.0	7330.2	7120.8
5°	8529.1	8544.3	8517.0	8441.1	8353.0	8301.4	8210.4	7970.6	7730.9	7424.2	7081.3
7.5°	8617.1	8647.5	8614.1	8541.3	8456.2	8401.7	8328.8	8122.4	7843.2	7494.1	7023.6
10°	8608.1	8644.5	8623.2	8556.5	8486.6	8435.0	8356.1	8192.2	7967.6	7600.3	7041.8
12.5°	8592.9	8641.4	8638.4	8605.0	8547.3	8507.8	8459.3	8313.6	8104.2	7755.1	7142.0
15°	8550.4	8611.0	8665.7	8693.0	8696.1	8696.1	8635.3	8480.5	8280.2	7958.5	7272.5
17.5°	8568.6	8638.4	8775.0	8853.9	8908.5	8902.5	8838.7	8671.8	8450.2	8167.9	7409.1
20°	8680.9	8775.0	8966.2	9124.1	9178.6	9160.5	9075.4	8881.2	8629.3	8347.0	7542.6
22.5°	8957.1	9042.1	9281.8	9467.0	9506.5	9457.9	9336.5	9072.5	8844.8	8541.3	7703.5
25°	9369.8	9470.1	9691.7	9831.3	9831.3	9803.9	9634.0	9324.4	9087.6	8811.4	7912.9
27.5°	9870.7	9955.7	10174.2	10298.6	10225.8	10146.9	9976.9	9603.6	9376.0	9151.3	8164.9
30°	10377.6	10432.2	10662.9	10717.5	10641.7	10541.5	10359.4	9986.1	9785.7	9612.7	8529.1
32.5°	10857.2	10975.5	11166.8	11154.6	11051.4	11002.9	10835.9	10438.3	10326.0	10307.8	9039.0
35°	11336.7	11427.8	11597.8	11640.2	11549.2	11540.1	11418.7	11124.2	11127.3	11245.7	9834.2
37.5°	11749.5	11831.5	12031.8	12125.9	12144.1	12189.7	12141.1	11946.9	12223.0	12547.8	10887.5
40°	12095.5	12210.9	12465.8	12629.8	12817.9	12984.9	12994.0	13036.5	13591.9	14150.5	12262.5
42.5°	12365.7	12526.6	12896.9	13200.4	13631.4	13843.9	14013.8	14247.5	15182.4	16017.1	13883.3
45°	12717.8	12903.0	13364.3	13840.9	14514.7	14863.7	15100.5	15725.8	17052.2	18190.4	15546.7
47.5°	13300.6	13397.7	13868.2	14563.3	15449.5	15947.3	16408.7	17355.7	19058.5	20078.3	16930.7
50°	14050.3	14114.0	14469.1	15434.3	16581.7	17237.3	18078.1	19192.0	21140.7	21644.5	17713.8
52.5°	14878.9	14900.2	15167.3	16393.5	17850.4	18676.0	19617.0	20991.9	22837.4	22761.5	18232.9
55°	15841.1	15810.7	16038.3	17434.6	19352.9	20296.8	21392.6	22834.3	24309.5	23553.7	18530.3
57.5°	16942.9	16861.0	17082.5	18815.6	21277.2	22406.4	23520.3	24424.8	25450.8	24218.4	18673.0
60°	18096.3	17932.4	18196.5	20366.7	23544.6	24616.0	25541.8	25784.7	26652.7	24746.6	18427.1
62.5°	19016.0	19019.0	19510.7	22017.9	25875.7	26813.6	27305.3	27523.9	27687.7	24631.2	17134.1
65°	20451.6	20500.2	21286.3	24309.5	28574.0	29387.5	29724.4	29014.1	27733.3	23198.6	15191.5
67.5°	21932.8	22087.6	23526.4	27466.2	31691.3	32346.9	31912.8	29302.5	26494.9	19929.6	11518.9
70°	22415.5	22670.4	25041.0	29639.4	33561.0	33900.9	32431.9	27957.9	22148.4	13324.9	5797.3
72.5°	20539.7	20952.5	24169.9	28847.2	32368.1	32073.7	29017.2	23447.5	14080.6	5059.8	1769.6
75°	14484.3	14666.5	20087.4	23930.0	26033.5	25198.8	22072.5	15115.7	5791.3	1420.5	607.1
77.5°	7478.9	7390.9	11946.9	15877.5	18566.7	17701.7	14453.9	7824.9	2194.5	591.9	376.4
80°	3866.9	3930.7	5169.1	8319.7	11333.7	10429.2	7706.5	3627.2	1168.5	327.8	288.4
82.5°	2167.2	2033.6	2971.6	3633.2	5299.6	4155.3	2956.4	2567.8	509.9	197.3	273.2
85°	394.6	412.8	1630.0	1963.8	1839.3	1168.5	953.1	1714.9	148.7	109.3	191.2
87.5°	6.1	6.1	315.7	564.5	358.1	163.9	300.5	245.9	30.4	42.5	33.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9	7047.9
2.5°	7014.5	6899.2	6683.7	6471.2	6201.0	5979.5	5830.8	5676.0	5518.1	5530.3	5566.7
5°	6893.1	6692.8	6267.8	5818.6	5387.6	4999.1	4616.6	4273.7	4134.0	4006.5	4012.6
7.5°	6771.7	6489.4	5867.2	5163.0	4510.4	3848.8	3369.2	2974.5	2765.2	2607.3	2561.7
10°	6717.0	6343.7	5499.9	4531.7	3605.9	2883.5	2267.3	1945.6	1696.7	1617.8	1639.1
12.5°	6741.3	6270.9	5169.1	3961.0	2859.2	2009.3	1578.4	1414.4	1359.8	1350.7	1344.6
15°	6786.9	6219.3	4844.3	3329.7	2100.4	1493.3	1326.4	1296.1	1290.0	1283.9	1286.9
17.5°	6847.6	6173.7	4498.3	2737.8	1611.7	1305.2	1256.6	1241.4	1238.4	1238.4	1238.4
20°	6908.3	6122.1	4112.8	2209.7	1344.6	1232.3	1202.0	1192.9	1189.8	1189.8	1186.8
22.5°	6978.1	6076.6	3721.2	1736.1	1238.4	1180.7	1153.4	1147.3	1144.3	1141.3	1141.3
25°	7078.2	6018.9	3305.4	1420.5	1171.6	1132.1	1104.8	1098.8	1095.7	1083.6	1086.6
27.5°	7211.8	5976.5	2877.4	1226.3	1110.9	1071.5	1053.2	1044.1	1038.1	1028.9	1032.0
30°	7393.9	5940.0	2422.1	1120.0	1041.1	1007.7	989.5	983.4	977.3	968.3	968.3
32.5°	7709.6	5955.2	1942.5	1035.0	977.3	937.9	919.7	913.6	907.6	898.4	898.4
35°	8183.1	6043.2	1554.0	962.2	901.5	862.0	843.8	843.8	834.7	822.5	819.5
37.5°	8957.1	6267.8	1247.5	892.4	828.6	792.2	770.9	764.9	755.8	737.6	734.5
40°	9870.7	6616.9	1050.2	822.5	761.9	725.4	707.2	689.0	664.7	646.5	643.5
42.5°	11018.1	6975.0	910.6	752.8	698.1	664.7	643.5	613.1	576.7	552.4	549.4
45°	12213.9	7302.9	816.5	689.0	637.4	610.1	585.8	537.2	491.7	461.3	458.3
47.5°	13106.3	7363.6	740.6	628.3	585.8	558.5	525.1	464.4	403.7	376.4	367.3
50°	13528.2	7069.2	661.7	567.6	534.2	503.9	461.3	391.6	324.8	291.4	285.3
52.5°	13676.9	6559.2	598.0	512.9	482.6	446.2	394.6	315.7	254.9	221.6	218.5
55°	13616.2	5915.7	540.3	461.3	421.9	379.4	327.8	251.9	188.2	160.9	154.8
57.5°	13297.5	5096.2	482.6	409.7	361.2	318.7	261.1	188.2	127.5	103.2	100.1
60°	12438.6	3979.2	424.9	352.1	306.5	261.1	206.4	133.6	78.9	57.7	57.7
62.5°	10987.7	2953.3	370.3	294.4	258.0	209.5	145.7	85.0	42.5	30.4	27.3
65°	9181.7	2179.3	309.6	248.9	215.5	163.9	103.2	51.6	21.2	9.1	6.1
67.5°	6407.4	1344.6	258.0	203.3	176.0	118.4	63.7	21.2	9.1	0.0	0.0
70°	2910.8	640.4	197.3	154.8	133.6	85.0	33.4	12.1	6.1	0.0	0.0
72.5°	904.5	336.9	139.6	112.3	91.1	54.7	18.2	9.1	6.1	0.0	0.0
75°	418.9	215.5	88.0	60.7	51.6	27.3	12.1	6.1	3.1	0.0	0.0
77.5°	312.7	166.9	51.6	33.4	27.3	18.2	9.1	6.1	3.1	0.0	0.0
80°	273.2	85.0	30.4	21.2	15.2	12.1	6.1	3.1	0.0	0.0	0.0
82.5°	245.9	42.5	18.2	12.1	9.1	6.1	3.1	3.1	0.0	0.0	0.0
85°	133.6	24.3	12.1	9.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0
87.5°	24.3	12.1	9.1	6.1	6.1	3.1	3.1	3.1	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

(END OF REPORT)