

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: P458718

Luminaire Tested: **GALN-SA2D-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15167 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

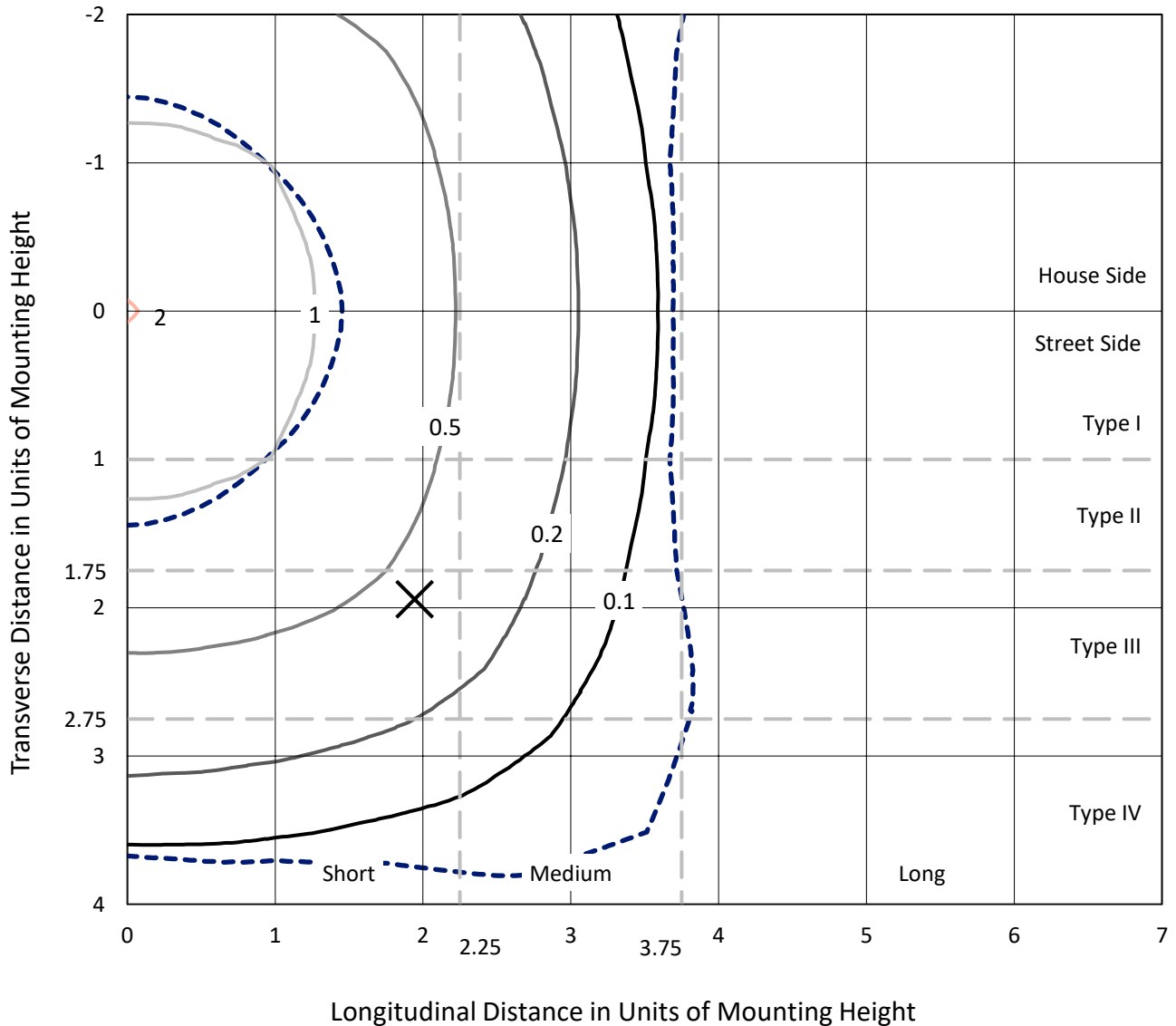
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

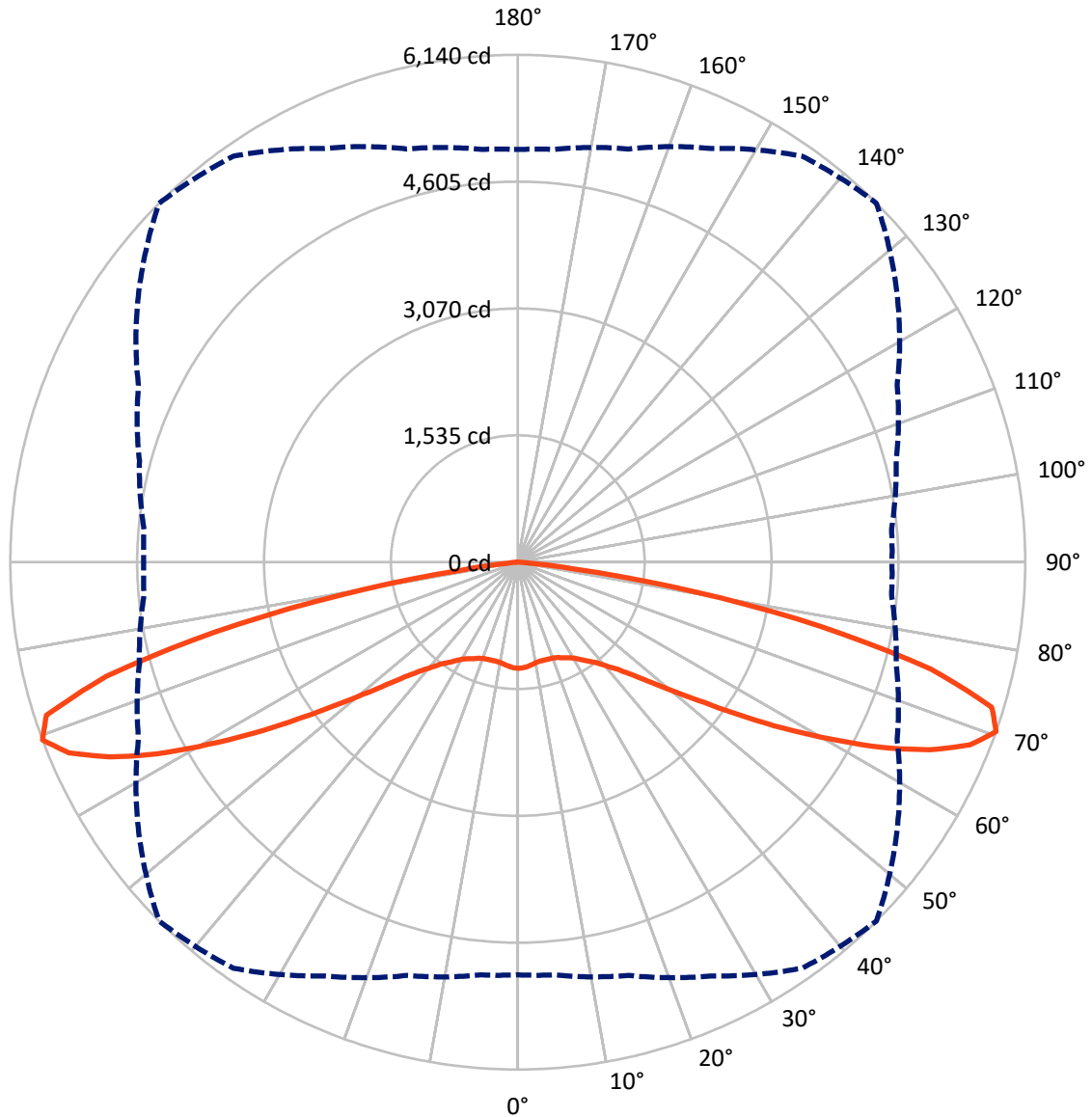
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7583.5	0.0	7583.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7583.5	0.0	7583.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15167.0	0.0	15167.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	0.8
10°-20°	351.6	2.3
20°-30°	599.0	3.9
30°-40°	928.4	6.1
40°-50°	1562.6	10.3
50°-60°	2843.1	18.7
60°-70°	4813.3	31.7
70°-80°	3725.7	24.6
80°-90°	223.2	1.5
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°	15167.0	100.0
0°-180°	15167.0	100.0



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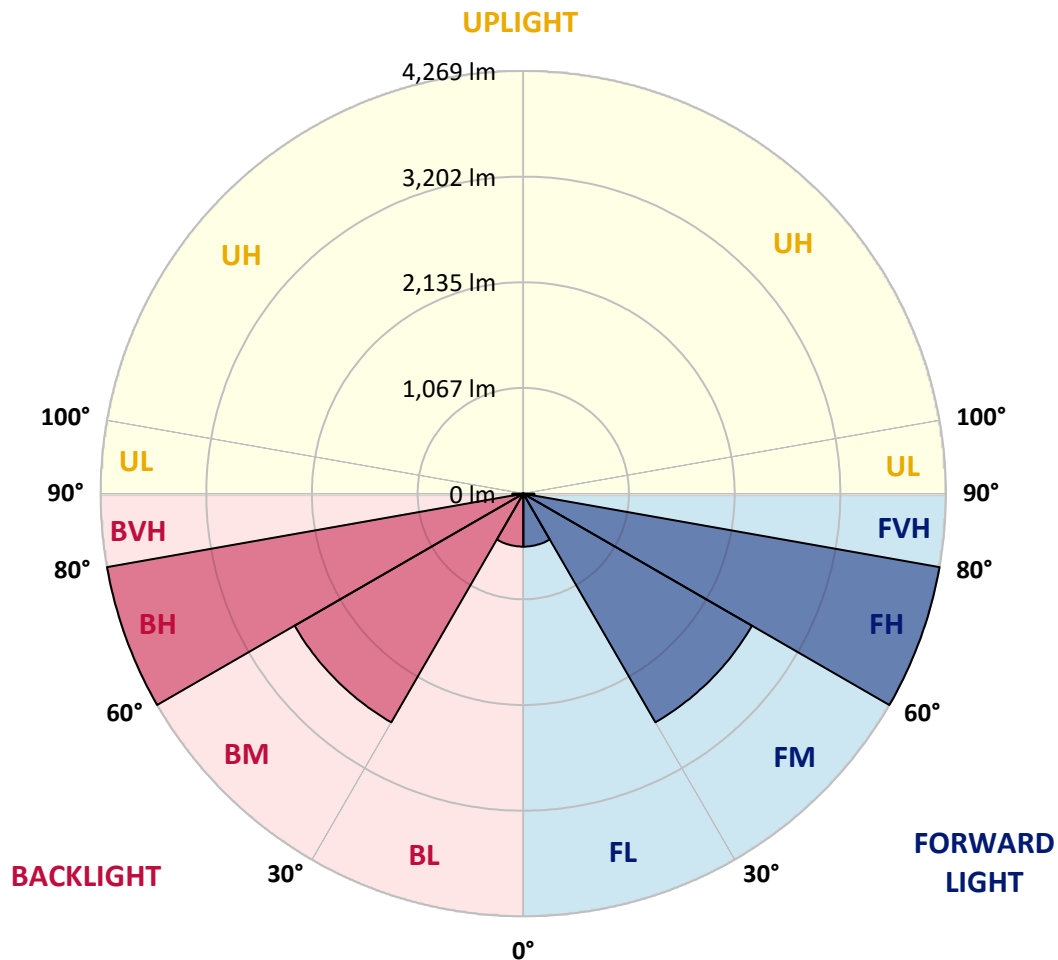
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.3	3.5			
FM (30°-60°)	2667.1	17.6			
FH (60°-80°)	4269.5	28.1			G2/5000
FVH (80°-90°)	111.6	0.7			G2/225
BL (0°-30°)	535.3	3.5	B2/1000		
BM (30°-60°)	2667.1	17.6	B3/5000		
BH (60°-80°)	4269.5	28.1	B4/5000		G2/5000
BVH (80°-90°)	111.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1284.1	1284.1	1284.1	1284.1	1284.1	1284.1	1284.1	1284.1	1284.1	1284.1	1284.1
2.5°	1280.9	1281.7	1281.7	1280.1	1279.3	1279.3	1278.5	1278.5	1280.9	1281.7	1282.5
5°	1269.7	1269.7	1269.7	1268.9	1267.3	1267.3	1265.6	1265.6	1266.4	1268.9	1267.3
7.5°	1254.4	1256.0	1256.0	1252.8	1250.4	1250.4	1249.6	1250.4	1251.2	1253.6	1252.8
10°	1249.6	1250.4	1246.4	1240.8	1236.8	1234.4	1235.2	1236.8	1240.8	1242.4	1243.2
12.5°	1252.8	1252.8	1245.6	1237.6	1230.4	1227.2	1226.4	1232.0	1239.2	1244.0	1245.6
15°	1256.8	1255.2	1246.4	1236.0	1228.8	1228.0	1227.2	1231.2	1241.6	1251.2	1252.0
17.5°	1259.2	1258.4	1247.2	1234.4	1230.4	1230.4	1229.6	1232.8	1244.0	1256.0	1256.8
20°	1267.3	1264.8	1252.0	1238.4	1235.2	1236.8	1234.4	1238.4	1250.4	1264.8	1268.1
22.5°	1283.3	1280.9	1268.1	1254.4	1252.8	1252.8	1252.0	1256.0	1268.9	1284.1	1286.5
25°	1302.5	1300.1	1288.1	1278.5	1280.1	1283.3	1281.7	1282.5	1292.9	1305.7	1309.7
27.5°	1328.1	1324.1	1313.7	1305.7	1310.5	1310.5	1310.5	1309.7	1316.1	1328.1	1332.1
30°	1359.4	1357.8	1346.6	1345.8	1349.8	1345.8	1345.8	1346.6	1347.4	1358.6	1362.6
32.5°	1400.2	1397.0	1391.4	1389.8	1401.0	1404.2	1393.0	1382.6	1388.2	1399.4	1401.8
35°	1467.5	1462.7	1454.7	1445.9	1454.7	1469.9	1445.9	1437.9	1452.3	1467.5	1469.1
37.5°	1558.8	1556.4	1543.6	1527.6	1526.8	1542.8	1518.0	1517.2	1544.4	1562.8	1565.2
40°	1673.4	1675.8	1659.8	1644.5	1636.5	1649.3	1630.1	1637.3	1663.8	1684.6	1683.0
42.5°	1834.4	1825.6	1800.7	1786.3	1777.5	1772.7	1767.9	1779.1	1808.8	1831.2	1848.8
45°	2022.6	2019.4	1988.2	1970.6	1951.3	1944.1	1942.5	1962.6	1998.6	2025.8	2028.2
47.5°	2235.7	2228.5	2208.5	2190.1	2182.8	2174.0	2166.0	2181.2	2217.3	2236.5	2242.1
50°	2455.2	2456.8	2456.8	2453.6	2460.8	2462.4	2440.8	2446.4	2466.4	2464.8	2463.2
52.5°	2705.9	2714.7	2756.4	2760.4	2794.8	2818.1	2778.8	2755.6	2748.4	2705.1	2708.3
55°	3000.7	3008.7	3071.2	3133.7	3226.6	3265.9	3183.3	3111.3	3060.0	2994.3	2997.5
57.5°	3368.4	3372.4	3431.7	3551.8	3699.2	3791.3	3646.3	3503.8	3399.6	3337.1	3312.3
60°	3764.1	3768.1	3854.6	4001.2	4230.3	4342.5	4163.0	3929.9	3798.5	3703.2	3709.6
62.5°	4239.1	4255.1	4332.8	4534.7	4812.7	4938.4	4700.5	4388.9	4211.1	4092.5	4097.3
65°	4747.8	4775.0	4859.9	5081.8	5338.2	5473.5	5181.9	4822.3	4601.2	4456.2	4471.4
67.5°	5077.8	5101.8	5224.4	5469.5	5789.1	5901.3	5524.8	5105.8	4829.5	4656.5	4624.4
70°	4993.7	5013.7	5177.1	5524.8	5998.2	6140.0	5606.5	5064.2	4739.0	4539.5	4526.7
72.5°	4408.1	4366.5	4605.2	5104.2	5759.5	5997.4	5349.4	4625.2	4215.9	4010.8	3986.8
75°	2921.4	3011.9	3364.4	3952.3	4872.7	5167.5	4565.9	3713.6	3198.6	3027.9	3001.5
77.5°	976.5	1046.2	1359.4	2240.5	3321.9	3764.9	3326.7	2428.8	1718.2	1384.2	1390.6
80°	258.7	255.5	330.8	616.0	1435.5	2180.4	1671.0	822.7	450.2	326.0	309.2
82.5°	92.9	104.1	133.8	170.6	380.5	677.7	478.2	230.7	169.0	125.0	121.0
85°	40.9	40.1	57.7	68.1	95.3	126.6	112.1	97.7	85.7	56.9	52.9
87.5°	8.8	8.8	13.6	10.4	16.8	16.8	20.8	24.8	25.6	16.8	13.6
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)