

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: P458544

Luminaire Tested: **GALN-SA1B-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458544  
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-SA1B-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5614 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

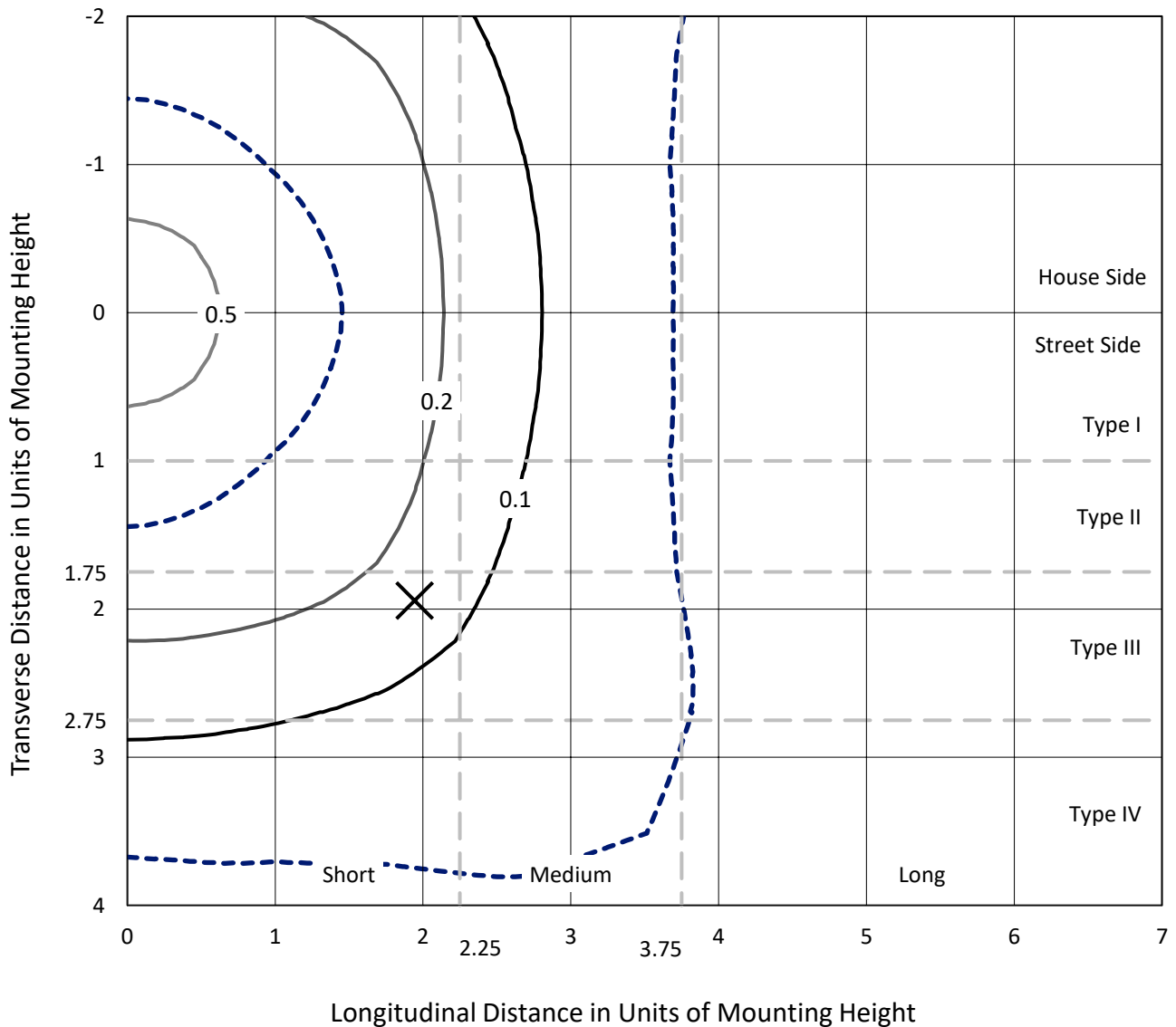
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

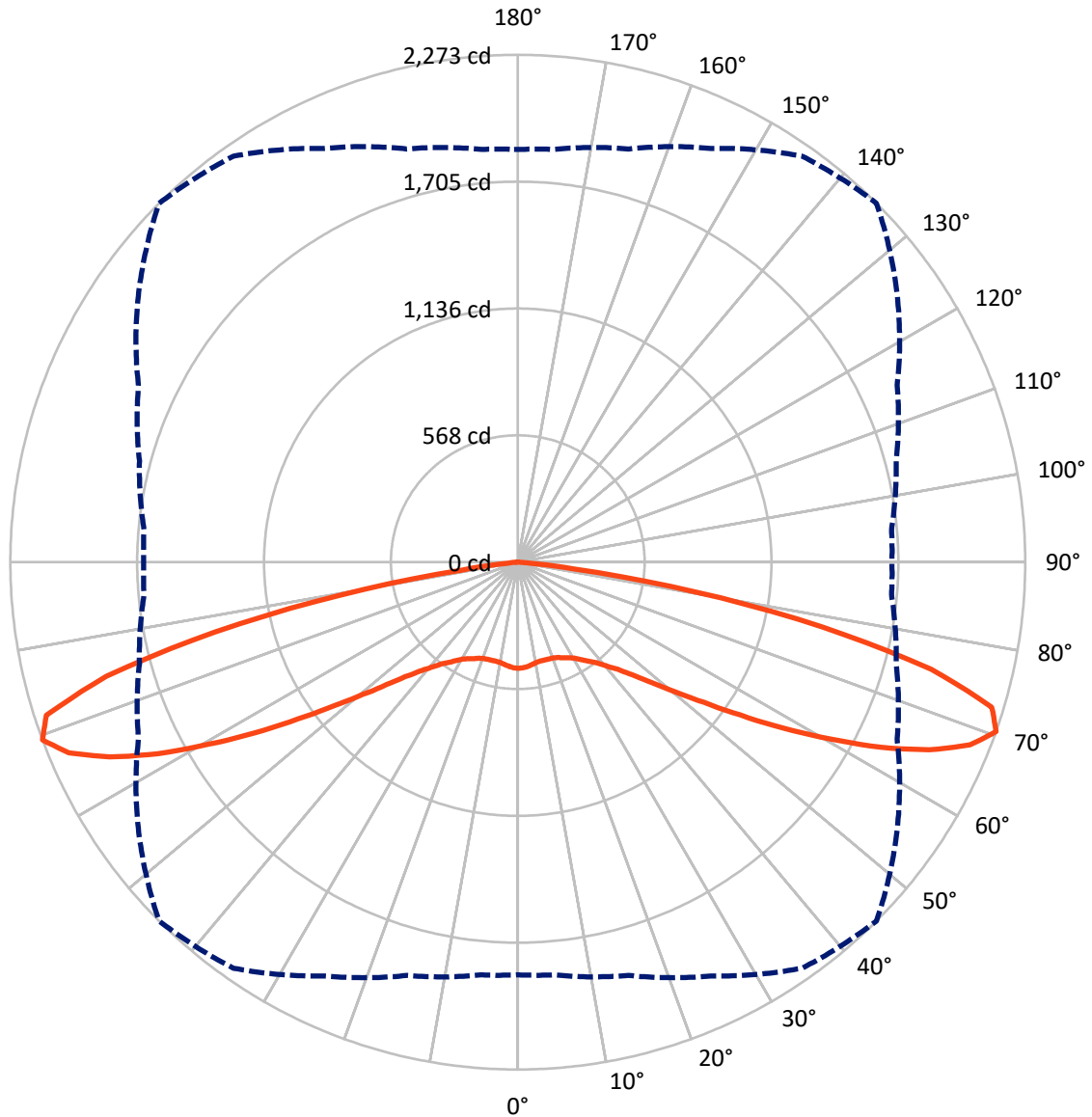
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	2807.0	0.0	2807.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2807.0	0.0	2807.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5614.0	0.0	5614.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	0.8
10°-20°	130.1	2.3
20°-30°	221.7	3.9
30°-40°	343.6	6.1
40°-50°	578.4	10.3
50°-60°	1052.4	18.7
60°-70°	1781.6	31.7
70°-80°	1379.1	24.6
80°-90°	82.6	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°	5614.0	100.0
0°-180°	5614.0	100.0

**Coefficient of Utilization**



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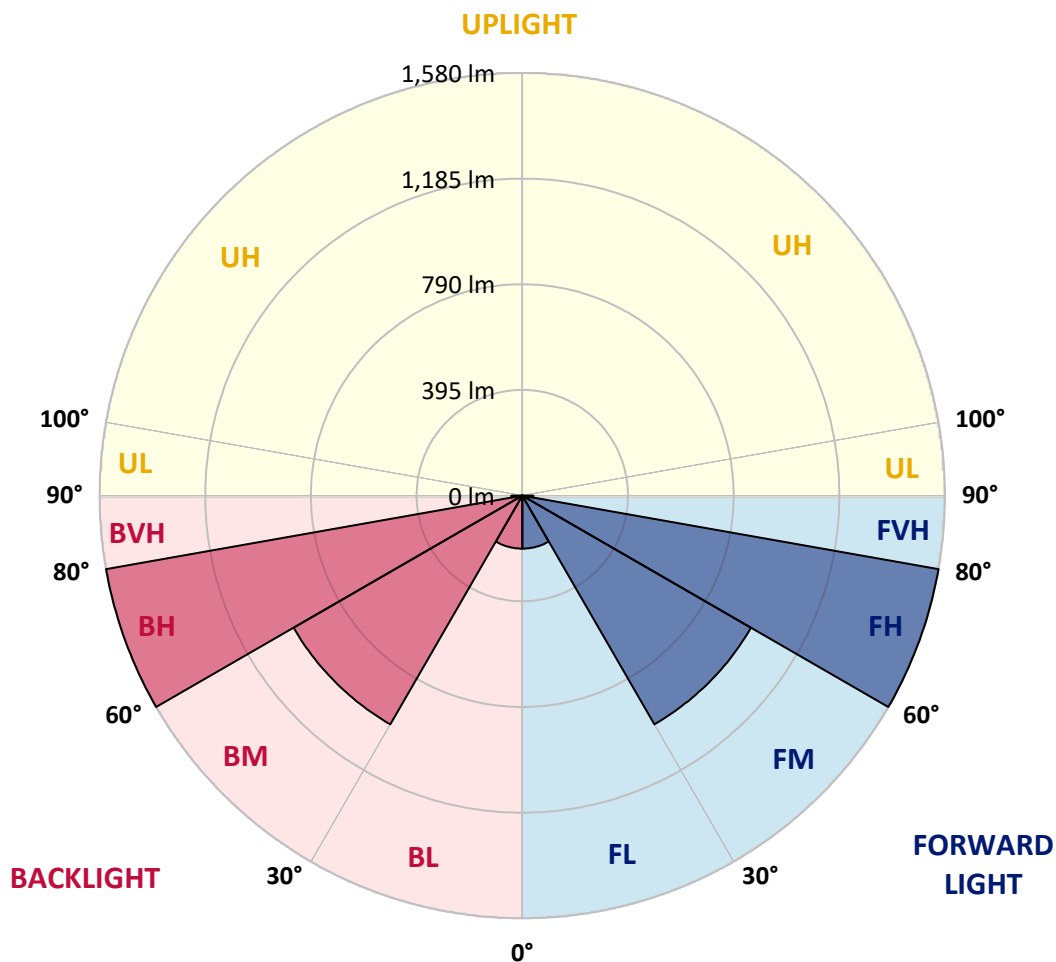
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	3.5			
FM (30°-60°)	987.2	17.6			
FH (60°-80°)	1580.3	28.2			G1/1800
FVH (80°-90°)	41.3	0.7			G1/100
BL (0°-30°)	198.1	3.5	B1/500		
BM (30°-60°)	987.2	17.6	B1/1000		
BH (60°-80°)	1580.3	28.2	B3/2500		G1/1800
BVH (80°-90°)	41.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	474.1	474.4	474.4	473.8	473.5	473.5	473.2	473.2	474.1	474.4	474.7
5°	470.0	470.0	470.0	469.7	469.1	469.1	468.5	468.5	468.8	469.7	469.1
7.5°	464.3	464.9	464.9	463.7	462.8	462.8	462.5	462.8	463.1	464.0	463.7
10°	462.5	462.8	461.4	459.3	457.8	456.9	457.2	457.8	459.3	459.9	460.2
12.5°	463.7	463.7	461.1	458.1	455.4	454.2	453.9	456.0	458.7	460.5	461.1
15°	465.2	464.6	461.4	457.5	454.8	454.5	454.2	455.7	459.6	463.1	463.4
17.5°	466.1	465.8	461.7	456.9	455.4	455.4	455.1	456.3	460.5	464.9	465.2
20°	469.1	468.2	463.4	458.4	457.2	457.8	456.9	458.4	462.8	468.2	469.4
22.5°	475.0	474.1	469.4	464.3	463.7	463.7	463.4	464.9	469.7	475.3	476.2
25°	482.1	481.2	476.8	473.2	473.8	475.0	474.4	474.7	478.6	483.3	484.8
27.5°	491.6	490.1	486.3	483.3	485.1	485.1	485.1	484.8	487.2	491.6	493.1
30°	503.2	502.6	498.4	498.1	499.6	498.1	498.1	498.4	498.7	502.9	504.4
32.5°	518.3	517.1	515.0	514.4	518.6	519.8	515.6	511.8	513.8	518.0	518.9
35°	543.2	541.4	538.4	535.2	538.4	544.1	535.2	532.2	537.6	543.2	543.8
37.5°	577.0	576.1	571.4	565.4	565.1	571.1	561.9	561.6	571.7	578.5	579.4
40°	619.4	620.3	614.4	608.7	605.8	610.5	603.4	606.1	615.8	623.5	623.0
42.5°	679.0	675.7	666.5	661.2	657.9	656.2	654.4	658.5	669.5	677.8	684.3
45°	748.7	747.5	735.9	729.4	722.3	719.6	719.0	726.4	739.8	749.9	750.7
47.5°	827.5	824.9	817.5	810.6	808.0	804.7	801.7	807.4	820.7	827.8	829.9
50°	908.8	909.4	909.4	908.2	910.9	911.4	903.4	905.5	912.9	912.3	911.7
52.5°	1001.6	1004.8	1020.3	1021.7	1034.5	1043.1	1028.6	1020.0	1017.3	1001.3	1002.5
55°	1110.7	1113.7	1136.8	1159.9	1194.3	1208.8	1178.3	1151.6	1132.6	1108.3	1109.5
57.5°	1246.8	1248.3	1270.2	1314.7	1369.2	1403.3	1349.7	1296.9	1258.4	1235.2	1226.0
60°	1393.3	1394.7	1426.8	1481.0	1565.8	1607.3	1540.9	1454.6	1406.0	1370.7	1373.1
62.5°	1569.1	1575.0	1603.8	1678.5	1781.4	1827.9	1739.9	1624.5	1558.7	1514.8	1516.6
65°	1757.4	1767.5	1798.9	1881.0	1975.9	2026.0	1918.1	1784.9	1703.1	1649.4	1655.1
67.5°	1879.5	1888.4	1933.8	2024.5	2142.8	2184.3	2045.0	1889.9	1787.6	1723.6	1711.7
70°	1848.4	1855.8	1916.3	2045.0	2220.2	2272.7	2075.2	1874.5	1754.1	1680.3	1675.5
72.5°	1631.7	1616.2	1704.6	1889.3	2131.9	2219.9	1980.0	1712.0	1560.5	1484.6	1475.7
75°	1081.3	1114.9	1245.3	1462.9	1803.6	1912.7	1690.1	1374.6	1183.9	1120.8	1111.0
77.5°	361.4	387.2	503.2	829.3	1229.6	1393.6	1231.4	899.0	636.0	512.4	514.7
80°	95.8	94.6	122.5	228.0	531.3	807.1	618.5	304.5	166.6	120.7	114.5
82.5°	34.4	38.5	49.5	63.2	140.8	250.8	177.0	85.4	62.6	46.3	44.8
85°	15.1	14.8	21.3	25.2	35.3	46.8	41.5	36.2	31.7	21.1	19.6
87.5°	3.3	3.3	5.0	3.9	6.2	6.2	7.7	9.2	9.5	6.2	5.0
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)