

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: P458660

Luminaire Tested: **GALN-SA2B-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458660  
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-SA2B-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11156 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

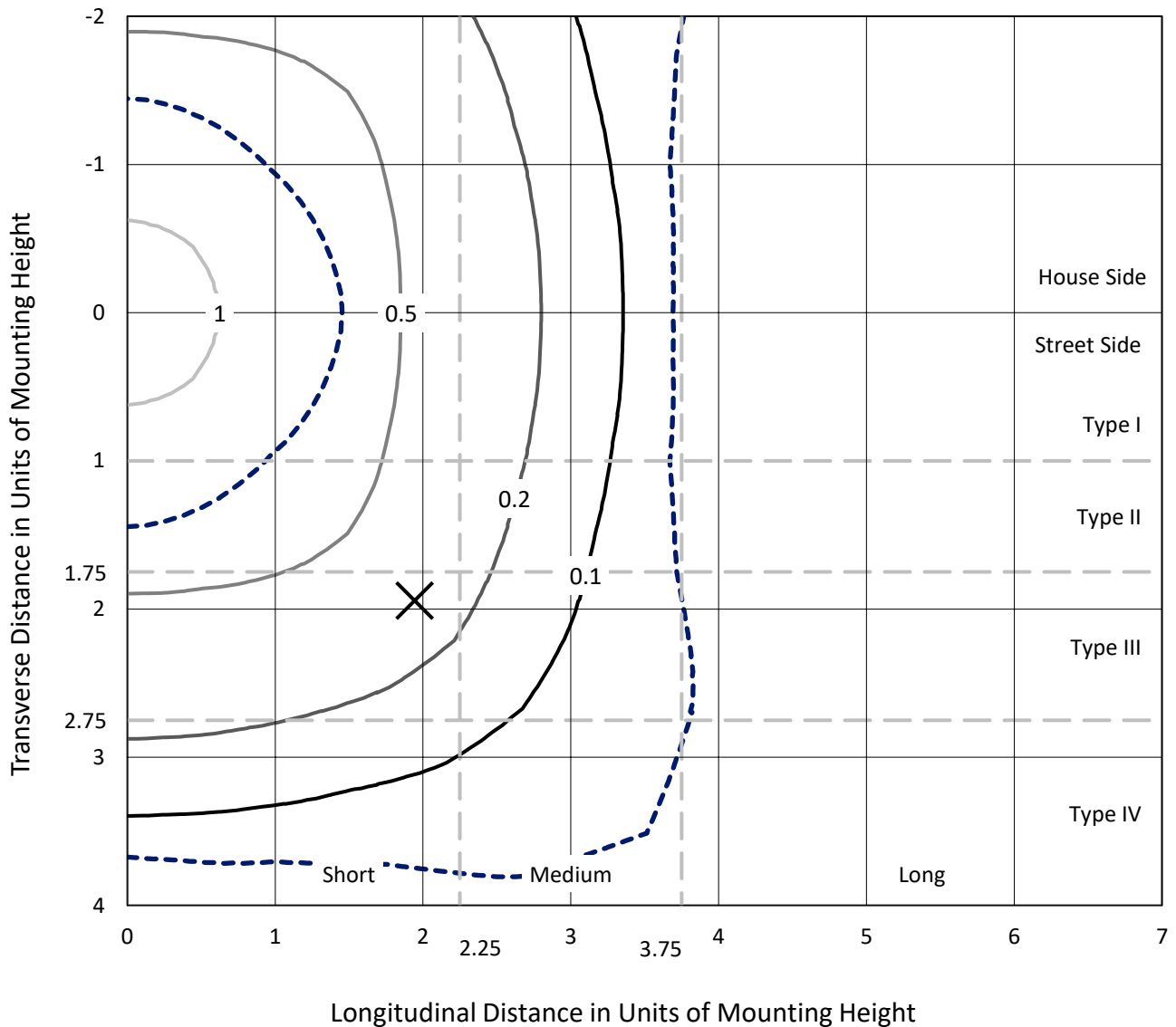
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

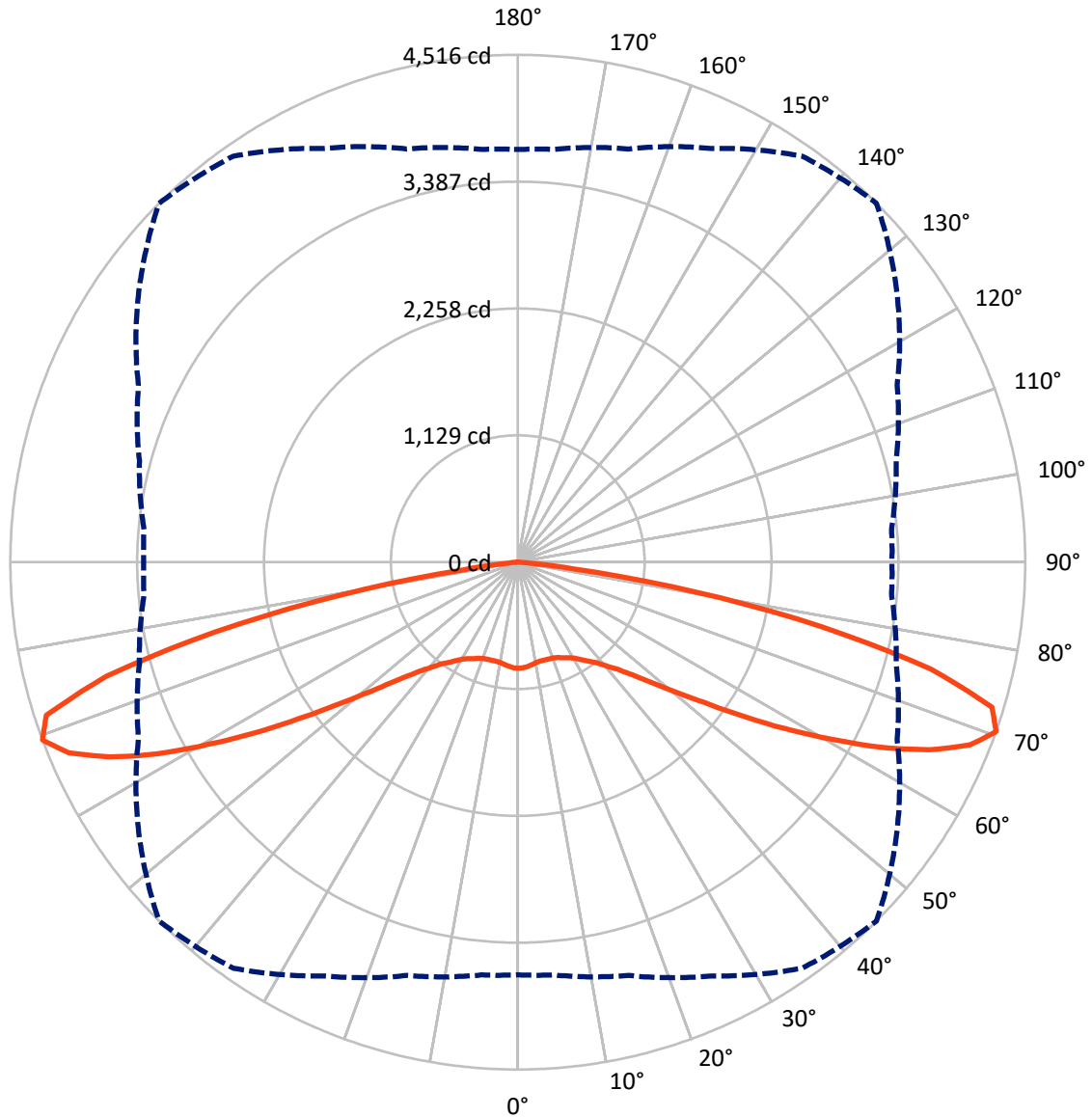
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	5578.0	0.0	5578.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5578.0	0.0	5578.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11156.0	0.0	11156.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	0.8
10°-20°	258.6	2.3
20°-30°	440.6	3.9
30°-40°	682.9	6.1
40°-50°	1149.4	10.3
50°-60°	2091.2	18.7
60°-70°	3540.4	31.7
70°-80°	2740.4	24.6
80°-90°	164.2	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°	11156.0	100.0
0°-180°	11156.0	100.0



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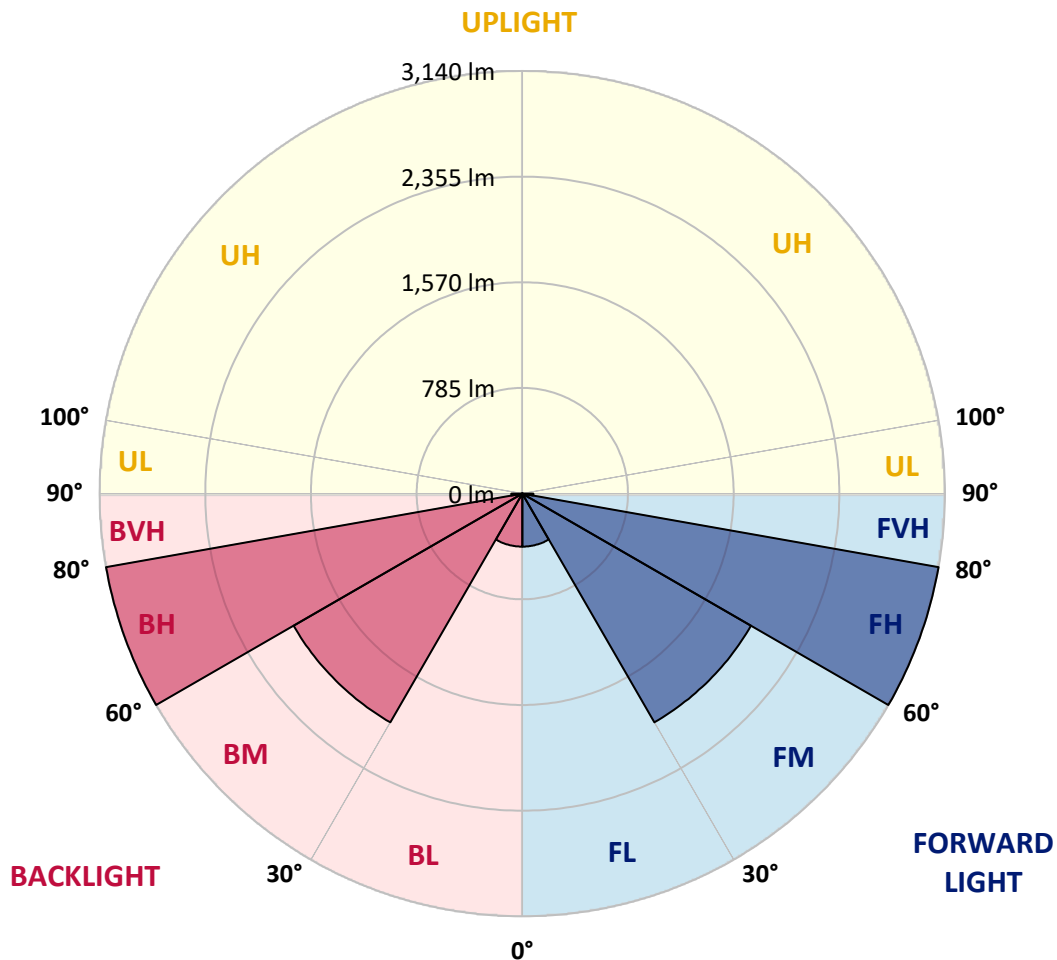
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.7	3.5			
FM (30°-60°)	1961.7	17.6			
FH (60°-80°)	3140.4	28.1			G2/5000
FVH (80°-90°)	82.1	0.7			G1/100
BL (0°-30°)	393.7	3.5	B1/500		
BM (30°-60°)	1961.7	17.6	B2/2500		
BH (60°-80°)	3140.4	28.1	B4/5000		G2/5000
BVH (80°-90°)	82.1	0.7			G1/100
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°	944.5	944.5	944.5	944.5	944.5	944.5	944.5	944.5	944.5	944.5	944.5
2.5°	942.1	942.7	942.7	941.5	941.0	941.0	940.4	940.4	942.1	942.7	943.3
5°	933.9	933.9	933.9	933.3	932.1	932.1	930.9	930.9	931.5	933.3	932.1
7.5°	922.7	923.9	923.9	921.5	919.7	919.7	919.2	919.7	920.3	922.1	921.5
10°	919.2	919.7	916.8	912.7	909.7	908.0	908.6	909.7	912.7	913.9	914.4
12.5°	921.5	921.5	916.2	910.3	905.0	902.7	902.1	906.2	911.5	915.0	916.2
15°	924.5	923.3	916.8	909.1	903.8	903.2	902.7	905.6	913.3	920.3	920.9
17.5°	926.2	925.6	917.4	908.0	905.0	905.0	904.4	906.8	915.0	923.9	924.5
20°	932.1	930.4	920.9	910.9	908.6	909.7	908.0	910.9	919.7	930.4	932.7
22.5°	943.9	942.1	932.7	922.7	921.5	921.5	920.9	923.9	933.3	944.5	946.3
25°	958.0	956.3	947.4	940.4	941.5	943.9	942.7	943.3	951.0	960.4	963.3
27.5°	976.9	974.0	966.3	960.4	963.9	963.9	963.9	963.3	968.1	976.9	979.8
30°	999.9	998.7	990.4	989.9	992.8	989.9	989.9	990.4	991.0	999.3	1002.2
32.5°	1029.9	1027.6	1023.4	1022.3	1030.5	1032.9	1024.6	1017.0	1021.1	1029.3	1031.1
35°	1079.4	1075.9	1070.0	1063.5	1070.0	1081.2	1063.5	1057.6	1068.2	1079.4	1080.6
37.5°	1146.6	1144.8	1135.4	1123.6	1123.0	1134.8	1116.5	1116.0	1136.0	1149.5	1151.3
40°	1230.8	1232.6	1220.8	1209.6	1203.7	1213.2	1199.0	1204.3	1223.8	1239.1	1237.9
42.5°	1349.3	1342.8	1324.5	1313.9	1307.4	1303.9	1300.4	1308.6	1330.4	1346.9	1359.9
45°	1487.7	1485.4	1462.4	1449.4	1435.3	1430.0	1428.8	1443.5	1470.1	1490.1	1491.9
47.5°	1644.5	1639.2	1624.4	1610.9	1605.6	1599.1	1593.2	1604.4	1630.9	1645.1	1649.2
50°	1805.9	1807.1	1807.1	1804.7	1810.0	1811.2	1795.3	1799.4	1814.2	1813.0	1811.8
52.5°	1990.3	1996.8	2027.4	2030.4	2055.7	2072.8	2043.9	2026.9	2021.6	1989.7	1992.1
55°	2207.2	2213.0	2259.0	2305.0	2373.3	2402.2	2341.5	2288.5	2250.8	2202.4	2204.8
57.5°	2477.6	2480.5	2524.1	2612.5	2720.9	2788.7	2682.1	2577.2	2500.6	2454.6	2436.4
60°	2768.7	2771.6	2835.2	2943.1	3111.6	3194.1	3062.1	2890.6	2794.0	2723.9	2728.6
62.5°	3118.1	3129.8	3187.0	3335.5	3539.9	3632.4	3457.4	3228.2	3097.4	3010.2	3013.8
65°	3492.2	3512.2	3574.7	3737.9	3926.4	4026.0	3811.6	3547.0	3384.4	3277.7	3288.9
67.5°	3735.0	3752.6	3842.8	4023.1	4258.2	4340.7	4063.7	3755.6	3552.3	3425.0	3401.5
70°	3673.1	3687.8	3808.0	4063.7	4412.0	4516.2	4123.8	3724.9	3485.7	3339.0	3329.6
72.5°	3242.4	3211.7	3387.3	3754.4	4236.4	4411.4	3934.7	3402.1	3101.0	2950.1	2932.5
75°	2148.8	2215.4	2474.7	2907.1	3584.1	3800.9	3358.5	2731.5	2352.7	2227.2	2207.7
77.5°	718.2	769.5	999.9	1648.0	2443.4	2769.3	2447.0	1786.5	1263.8	1018.1	1022.9
80°	190.3	188.0	243.3	453.1	1055.9	1603.8	1229.1	605.1	331.1	239.8	227.4
82.5°	68.3	76.6	98.4	125.5	279.9	498.5	351.8	169.7	124.3	91.9	89.0
85°	30.0	29.5	42.4	50.1	70.1	93.1	82.5	71.9	63.0	41.8	38.9
87.5°	6.5	6.5	10.0	7.7	12.4	12.4	15.3	18.3	18.9	12.4	10.0
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)