

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: P527731

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7559 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

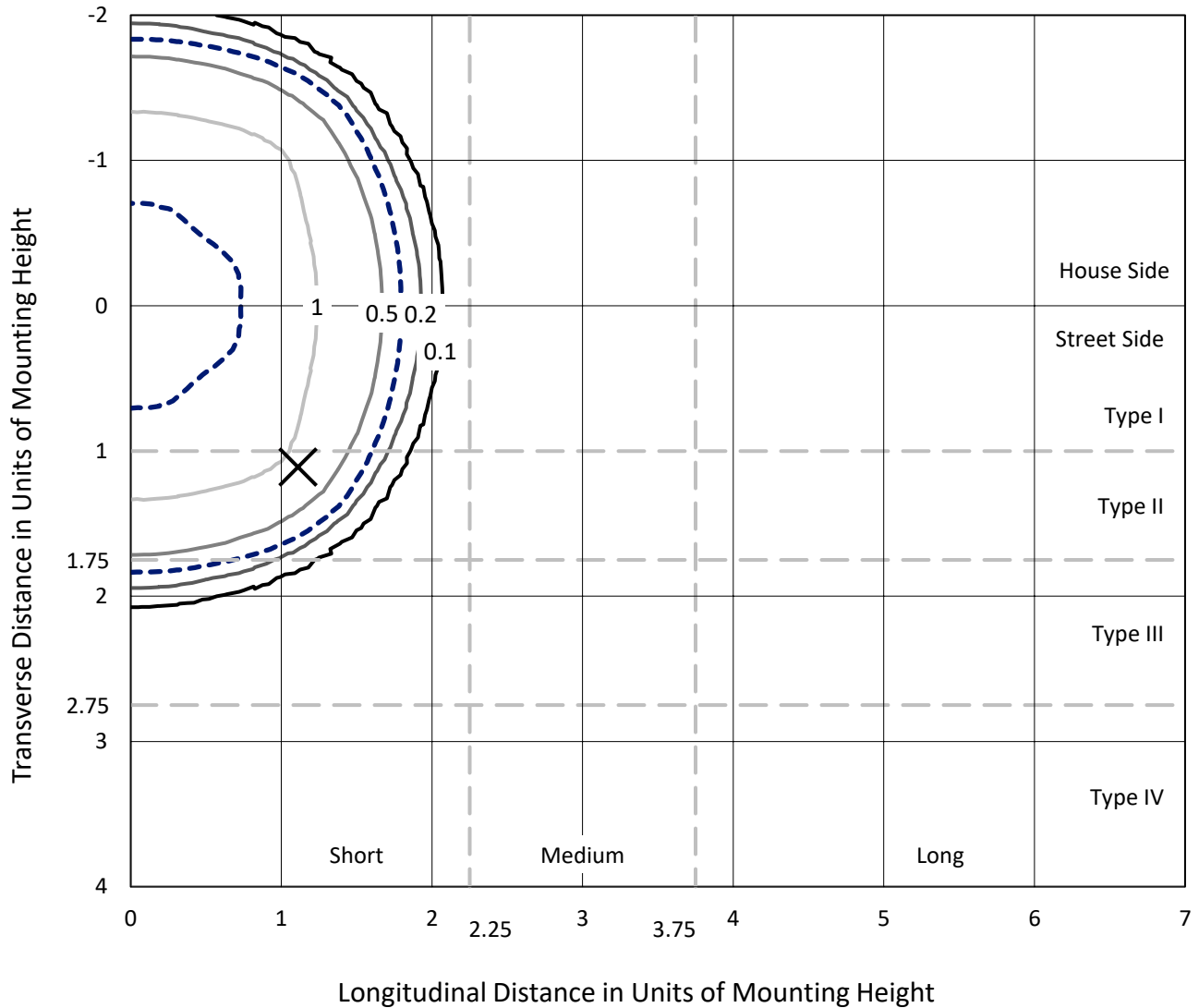
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

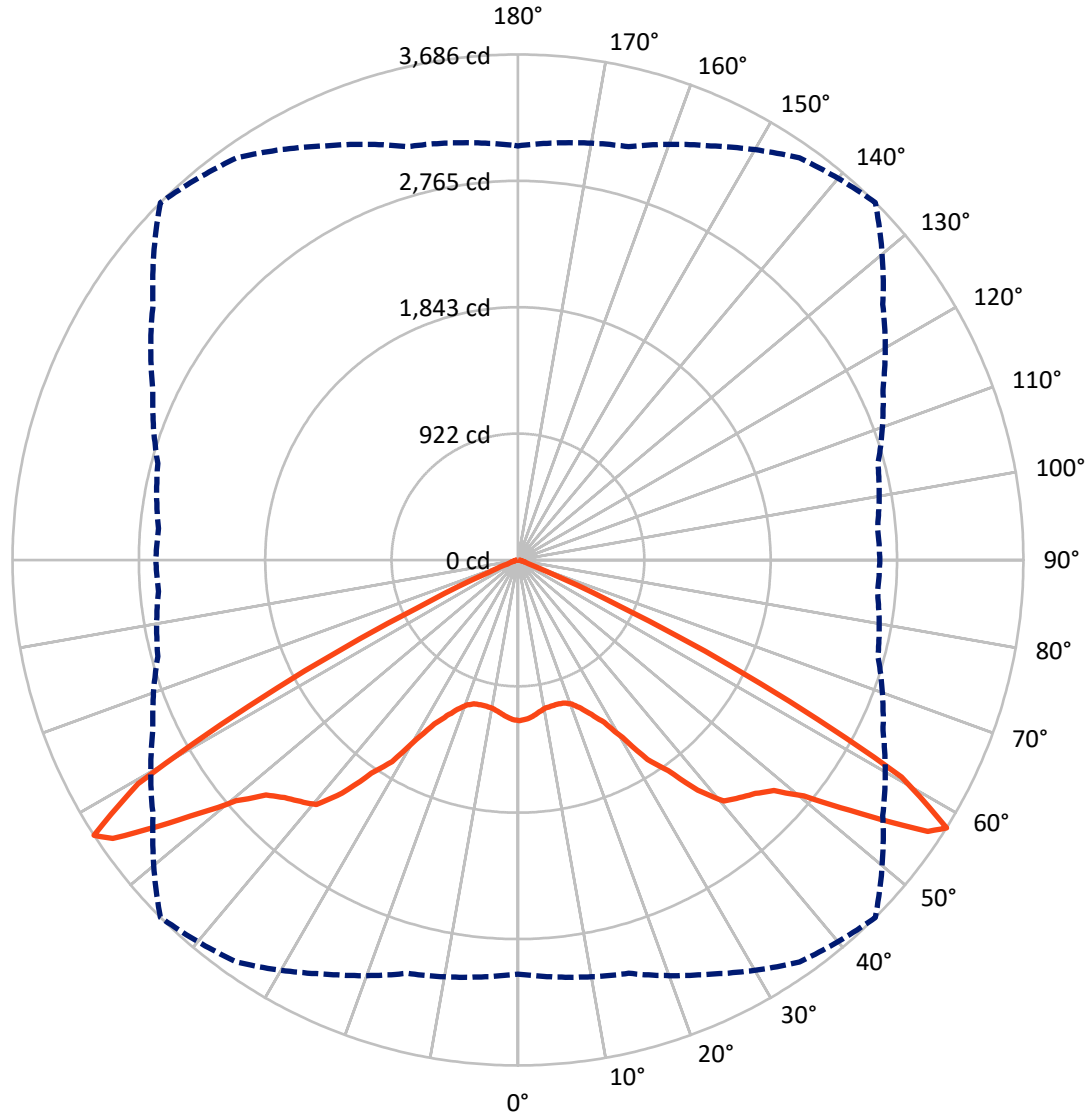
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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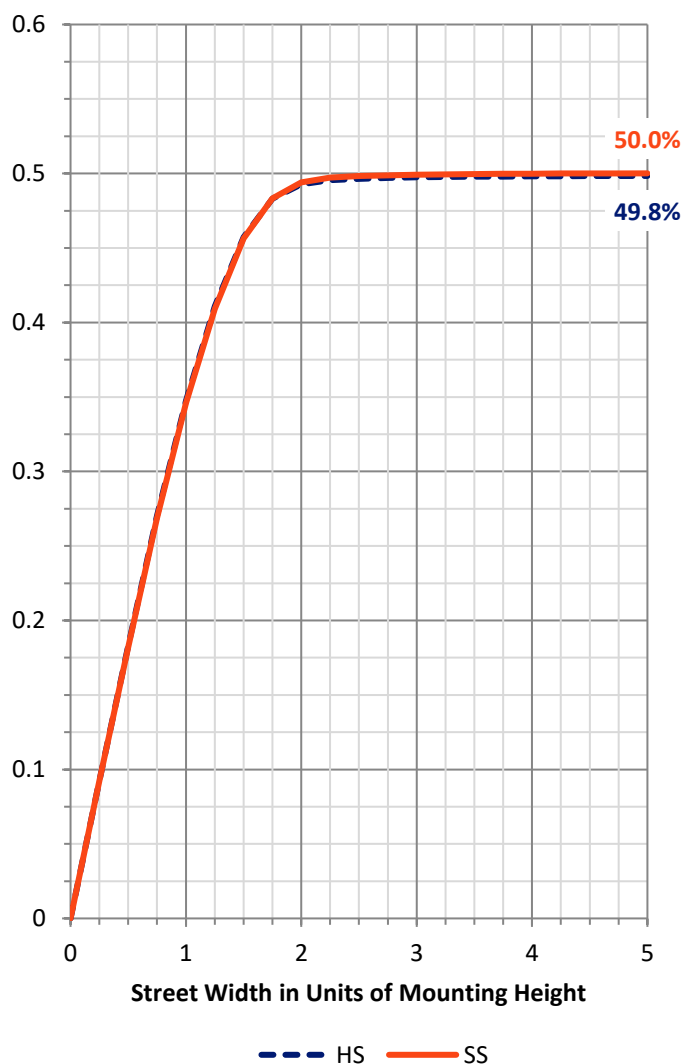
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3779.5	0.0	3779.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3779.5	0.0	3779.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7559.0	0.0	7559.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	1.4
10°-20°	311.4	4.1
20°-30°	574.9	7.6
30°-40°	1130.5	15.0
40°-50°	1841.3	24.4
50°-60°	2626.0	34.7
60°-70°	909.2	12.0
70°-80°	48.8	0.6
80°-90°	9.2	0.1
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°	7559.0	100.0
0°-180°	7559.0	100.0

**Coefficient of Utilization**

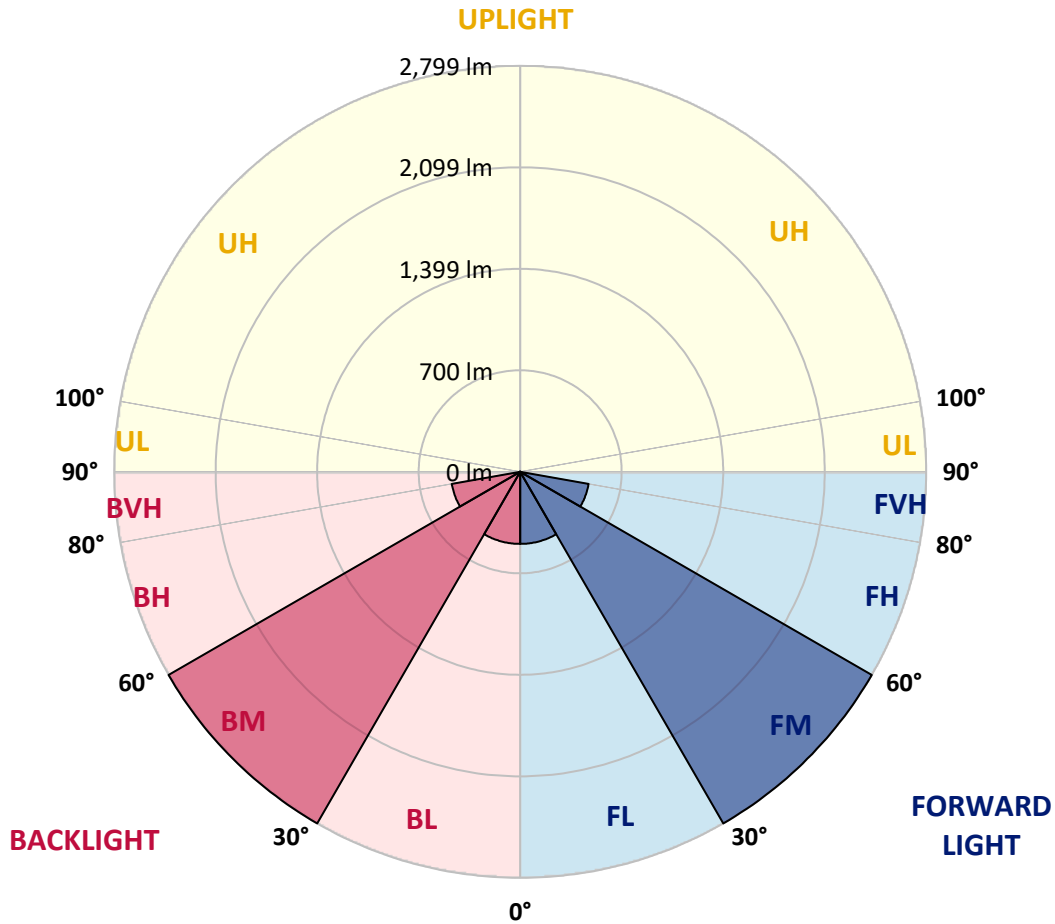


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.0	6.6			
FM (30°-60°)	2798.9	37.0			
FH (60°-80°)	479.0	6.3			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	497.0	6.6	B1/500		
BM (30°-60°)	2798.9	37.0	B3/5000		
BH (60°-80°)	479.0	6.3	B1/500		G0/660
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5
2.5°	1169.3	1175.6	1167.8	1164.6	1163.0	1163.0	1158.3	1158.3	1156.7	1158.3	1152.0
5°	1150.4	1156.7	1156.7	1155.1	1145.7	1144.1	1139.4	1136.2	1137.8	1131.5	1136.2
7.5°	1131.5	1136.2	1129.9	1128.4	1125.2	1118.9	1117.3	1103.1	1104.7	1104.7	1107.9
10°	1128.4	1126.8	1117.3	1109.4	1100.0	1098.4	1093.7	1090.5	1090.5	1089.0	1093.7
12.5°	1128.4	1120.5	1118.9	1101.6	1085.8	1092.1	1079.5	1071.6	1082.7	1085.8	1092.1
15°	1126.8	1134.7	1107.9	1100.0	1089.0	1090.5	1079.5	1071.6	1077.9	1081.1	1085.8
17.5°	1136.2	1131.5	1123.6	1107.9	1103.1	1096.8	1082.7	1076.3	1076.3	1084.2	1085.8
20°	1161.4	1148.8	1133.1	1125.2	1129.9	1122.1	1104.7	1081.1	1087.4	1093.7	1098.4
22.5°	1185.1	1175.6	1164.6	1159.9	1186.7	1174.1	1144.1	1117.3	1107.9	1118.9	1126.8
25°	1230.8	1230.8	1210.3	1216.6	1246.5	1248.1	1213.5	1166.2	1159.9	1164.6	1167.8
27.5°	1323.8	1328.5	1311.2	1317.5	1330.1	1341.1	1311.2	1271.8	1257.6	1256.0	1260.7
30°	1424.6	1434.1	1432.5	1459.3	1495.5	1501.8	1457.7	1393.1	1350.6	1342.7	1349.0
32.5°	1557.0	1561.7	1558.6	1590.1	1687.8	1733.5	1618.5	1527.1	1470.3	1484.5	1470.3
35°	1806.0	1801.3	1766.6	1772.9	1853.3	1886.4	1776.1	1717.7	1691.0	1719.3	1713.0
37.5°	2020.3	2003.0	1974.6	2015.6	2099.1	2129.1	2014.0	1911.6	1862.7	1910.0	1930.5
40°	2201.6	2157.4	2118.0	2159.0	2270.9	2311.9	2143.2	2059.7	2040.8	2075.5	2119.6
42.5°	2354.4	2326.0	2274.0	2277.2	2351.3	2370.2	2234.6	2185.8	2166.9	2222.0	2244.1
45°	2463.2	2436.4	2387.5	2384.4	2441.1	2428.5	2307.1	2274.0	2285.1	2321.3	2332.4
47.5°	2518.3	2532.5	2504.1	2512.0	2541.9	2512.0	2415.9	2415.9	2390.7	2412.7	2401.7
50°	2677.5	2633.4	2669.6	2669.6	2701.1	2704.3	2608.1	2573.5	2505.7	2467.9	2467.9
52.5°	2863.4	2866.6	2880.8	2932.8	2986.4	3032.1	2895.0	2746.8	2633.4	2584.5	2578.2
55°	3016.3	3047.8	3104.6	3202.3	3356.7	3419.7	3183.3	2918.6	2779.9	2704.3	2688.5
56°	3099.8	3069.9	3167.6	3301.5	3503.3	3585.2	3230.6	2953.3	2800.4	2715.3	2713.7
57.5°	3019.5	3052.5	3120.3	3331.5	3578.9	3686.1	3248.0	2937.5	2718.5	2631.8	2639.7
60°	2384.4	2415.9	2507.3	2743.7	3131.3	3214.9	2748.4	2422.2	2226.8	2102.3	2103.8
62.5°	1349.0	1372.6	1443.5	1662.6	1903.7	1984.1	1713.0	1495.5	1360.0	1290.7	1268.6
65°	496.4	487.0	498.0	609.9	758.0	825.8	712.3	602.0	531.1	505.9	496.4
67.5°	186.0	171.8	160.7	171.8	215.9	228.5	209.6	174.9	163.9	168.6	171.8
70°	115.0	108.7	86.7	81.9	80.4	78.8	83.5	88.3	100.9	118.2	121.3
72.5°	80.4	75.6	61.5	58.3	55.2	53.6	61.5	67.8	78.8	91.4	93.0
75°	31.5	33.1	31.5	34.7	36.2	37.8	44.1	48.9	53.6	53.6	52.0
77.5°	6.3	6.3	9.5	12.6	15.8	20.5	29.9	34.7	36.2	34.7	29.9
80°	0.0	0.0	3.2	6.3	12.6	17.3	26.8	29.9	33.1	29.9	23.6
82.5°	0.0	0.0	3.2	7.9	12.6	15.8	25.2	31.5	36.2	33.1	25.2
85°	0.0	0.0	3.2	6.3	9.5	11.0	11.0	7.9	7.9	4.7	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)