

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: P647206

Luminaire Tested: **GALN-SA1D-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647206  
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-SA1D-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6414.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

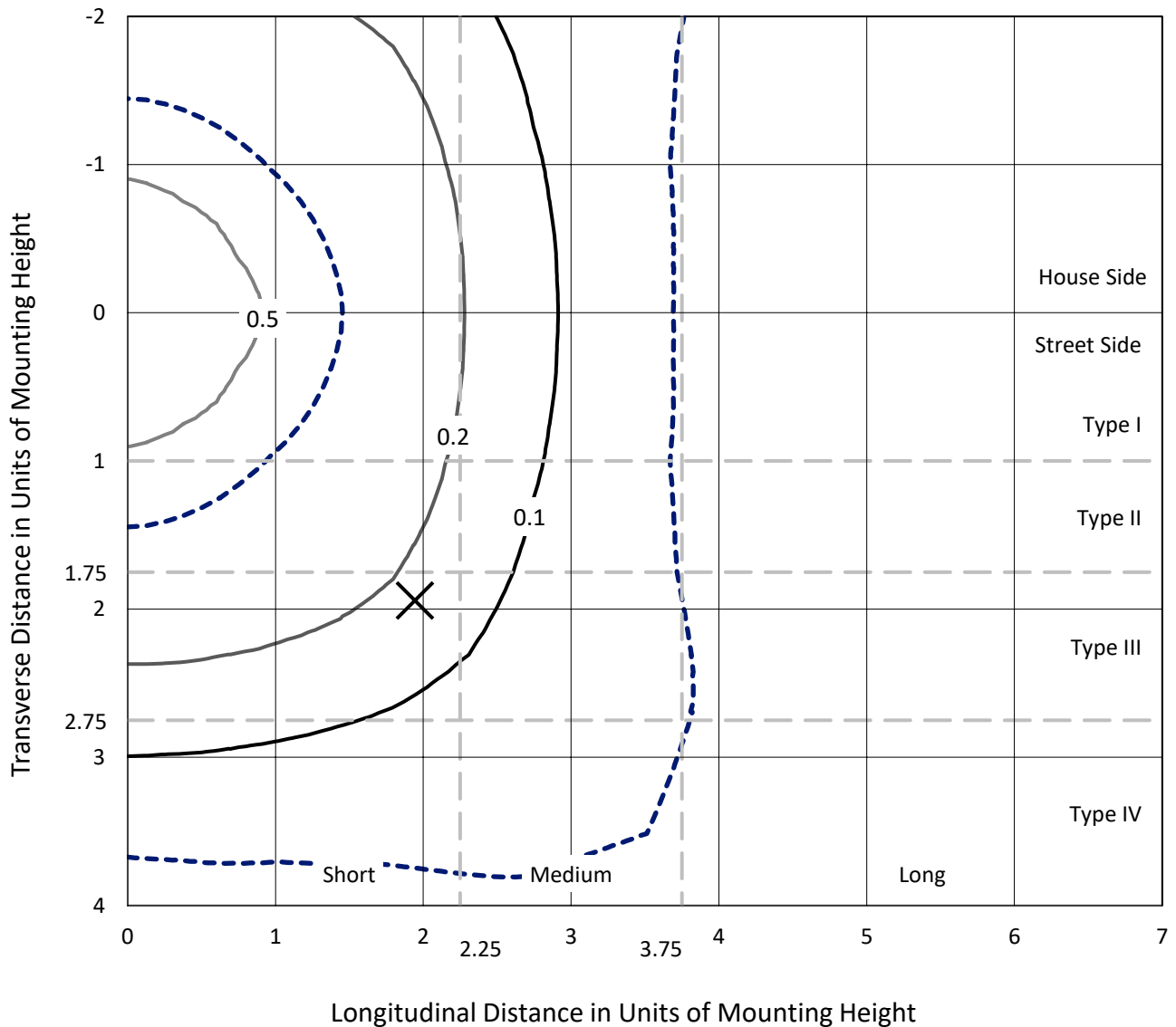
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

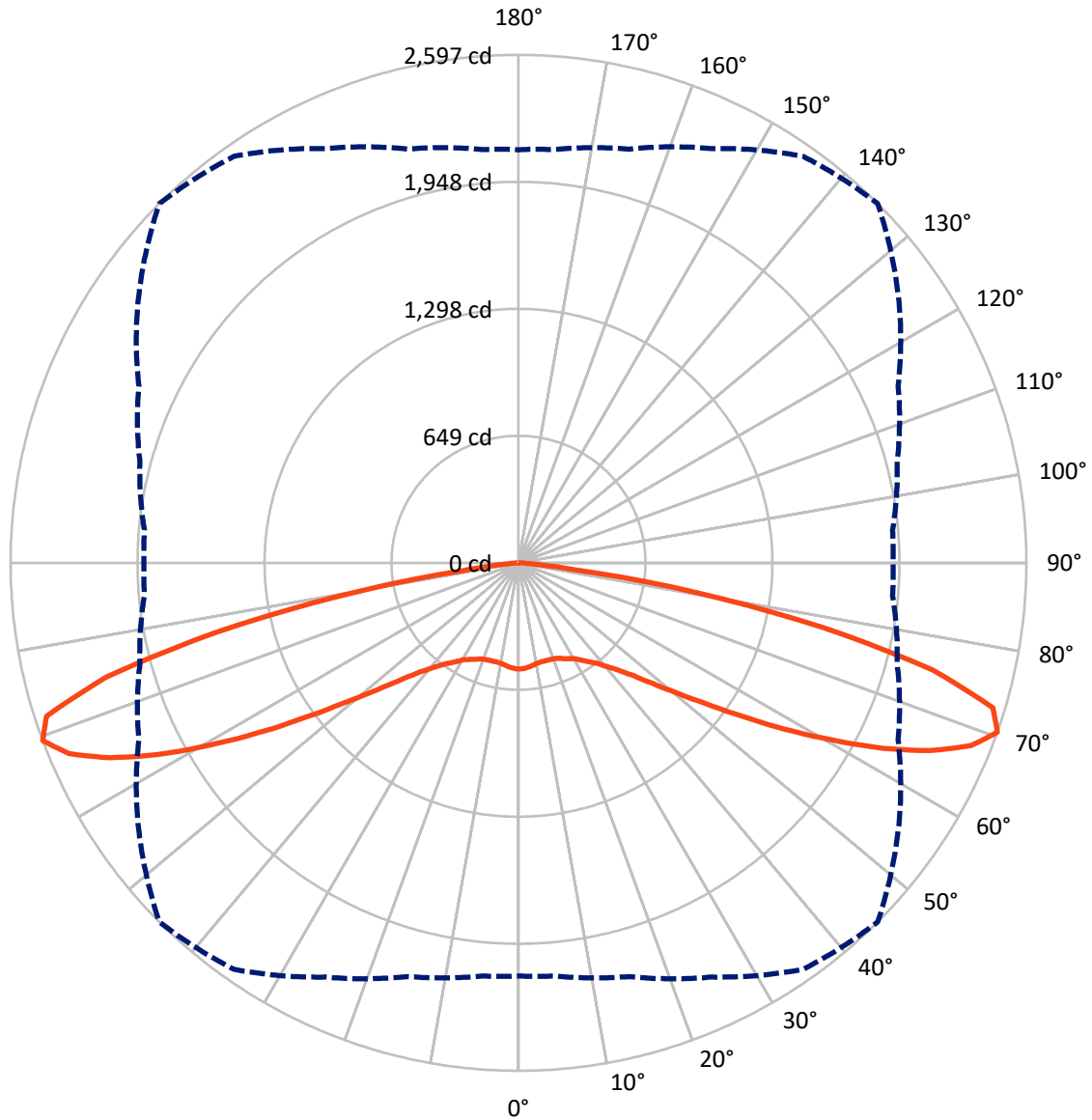
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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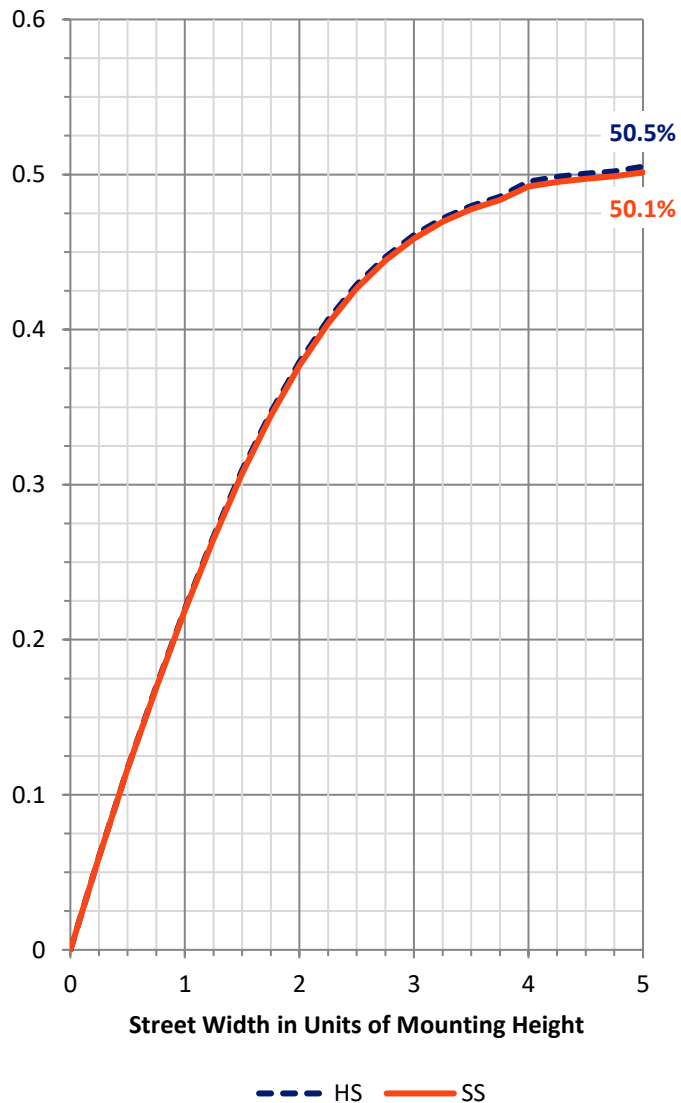
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3207.2	0.0	3207.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3207.2	0.0	3207.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6414.3	0.0	6414.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	0.8
10°-20°	148.7	2.3
20°-30°	253.3	3.9
30°-40°	392.6	6.1
40°-50°	660.9	10.3
50°-60°	1202.4	18.7
60°-70°	2035.6	31.7
70°-80°	1575.7	24.6
80°-90°	94.4	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°	6414.3	100.0
0°-180°	6414.3	100.0

**Coefficient of Utilization**

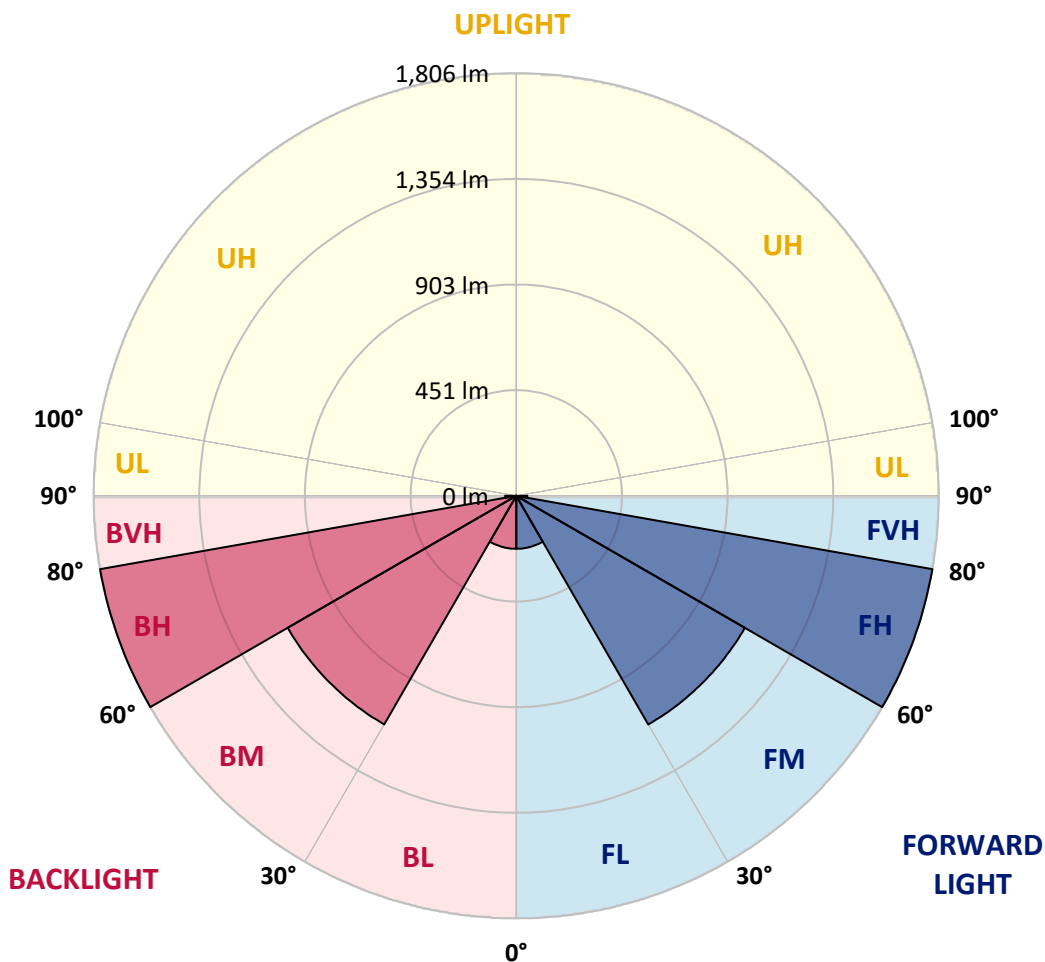


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.4	3.5			
FM (30°-60°)	1127.9	17.6			
FH (60°-80°)	1805.6	28.1			G2/5000
FVH (80°-90°)	47.2	0.7			G1/100
BL (0°-30°)	226.4	3.5	B1/500		
BM (30°-60°)	1127.9	17.6	B2/2500		
BH (60°-80°)	1805.6	28.1	B3/2500		G2/5000
BVH (80°-90°)	47.2	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-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1
2.5°	541.7	542.1	542.1	541.4	541.1	541.1	540.7	540.7	541.7	542.1	542.4
5°	537.0	537.0	537.0	536.6	536.0	536.0	535.3	535.3	535.6	536.6	536.0
7.5°	530.5	531.2	531.2	529.9	528.8	528.8	528.4	528.8	529.2	530.2	529.9
10°	528.4	528.8	527.1	524.8	523.0	522.0	522.4	523.0	524.8	525.5	525.8
12.5°	529.9	529.9	526.8	523.4	520.4	519.0	518.7	521.0	524.1	526.1	526.8
15°	531.5	530.9	527.1	522.7	519.7	519.4	519.0	520.7	525.1	529.2	529.5
17.5°	532.5	532.2	527.5	522.0	520.4	520.4	520.0	521.4	526.1	531.2	531.5
20°	536.0	534.9	529.5	523.7	522.4	523.0	522.0	523.7	528.8	534.9	536.3
22.5°	542.7	541.7	536.3	530.5	529.9	529.9	529.5	531.2	536.6	543.1	544.1
25°	550.8	549.8	544.7	540.7	541.4	542.7	542.1	542.4	546.8	552.2	553.9
27.5°	561.6	560.0	555.6	552.2	554.2	554.2	554.2	553.9	556.6	561.6	563.4
30°	574.9	574.3	569.5	569.2	570.8	569.2	569.2	569.5	569.8	574.6	576.3
32.5°	592.2	590.9	588.4	587.8	592.5	593.9	589.1	584.7	587.1	591.9	592.9
35°	620.6	618.6	615.2	611.5	615.2	621.6	611.5	608.1	614.2	620.6	621.3
37.5°	659.3	658.3	652.8	646.1	645.7	652.5	642.0	641.7	653.2	660.9	661.9
40°	707.7	708.7	702.0	695.5	692.1	697.5	689.4	692.5	703.6	712.5	711.7
42.5°	775.8	772.0	761.5	755.4	751.8	749.7	747.7	752.4	764.9	774.5	781.9
45°	855.4	854.0	840.9	833.3	825.3	822.2	821.5	830.0	845.2	856.8	857.8
47.5°	945.6	942.5	934.0	926.2	923.2	919.4	916.0	922.5	937.7	945.9	948.2
50°	1038.3	1039.0	1039.0	1037.6	1040.7	1041.4	1032.2	1034.6	1043.1	1042.4	1041.7
52.5°	1144.4	1148.1	1165.7	1167.4	1181.9	1191.8	1175.2	1165.3	1162.4	1144.0	1145.4
55°	1269.0	1272.5	1298.8	1325.3	1364.6	1381.2	1346.3	1315.8	1294.1	1266.3	1267.7
57.5°	1424.5	1426.2	1451.3	1502.1	1564.4	1603.4	1542.1	1481.8	1437.7	1411.4	1400.8
60°	1591.9	1593.6	1630.2	1692.1	1789.1	1836.4	1760.6	1662.0	1606.5	1566.2	1568.8
62.5°	1792.8	1799.6	1832.5	1917.8	2035.3	2088.5	1987.9	1856.1	1780.9	1730.8	1732.9
65°	2007.9	2019.4	2055.3	2149.2	2257.5	2314.9	2191.5	2039.4	1945.9	1884.6	1891.0
67.5°	2147.5	2157.6	2209.5	2313.1	2448.3	2495.7	2336.6	2159.4	2042.5	1969.2	1955.7
70°	2111.9	2120.4	2189.5	2336.6	2536.8	2596.7	2371.1	2141.7	2004.2	1919.8	1914.4
72.5°	1864.2	1846.6	1947.6	2158.7	2435.8	2536.4	2262.3	1956.1	1783.0	1696.2	1686.0
75°	1235.5	1273.8	1422.9	1671.5	2060.8	2185.4	1931.0	1570.5	1352.7	1280.6	1269.4
77.5°	413.0	442.5	574.9	947.5	1404.9	1592.2	1406.9	1027.1	726.7	585.4	588.1
80°	109.4	108.1	139.9	260.5	607.1	922.1	706.7	347.9	190.4	137.9	130.8
82.5°	39.3	44.0	56.6	72.2	160.9	286.6	202.2	97.6	71.5	52.9	51.1
85°	17.3	16.9	24.4	28.8	40.3	53.6	47.4	41.3	36.3	24.0	22.4
87.5°	3.8	3.8	5.8	4.4	7.1	7.1	8.8	10.5	10.8	7.1	5.8
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)