

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: P651163

Luminaire Tested: **GALN-SA1D-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6870.1 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

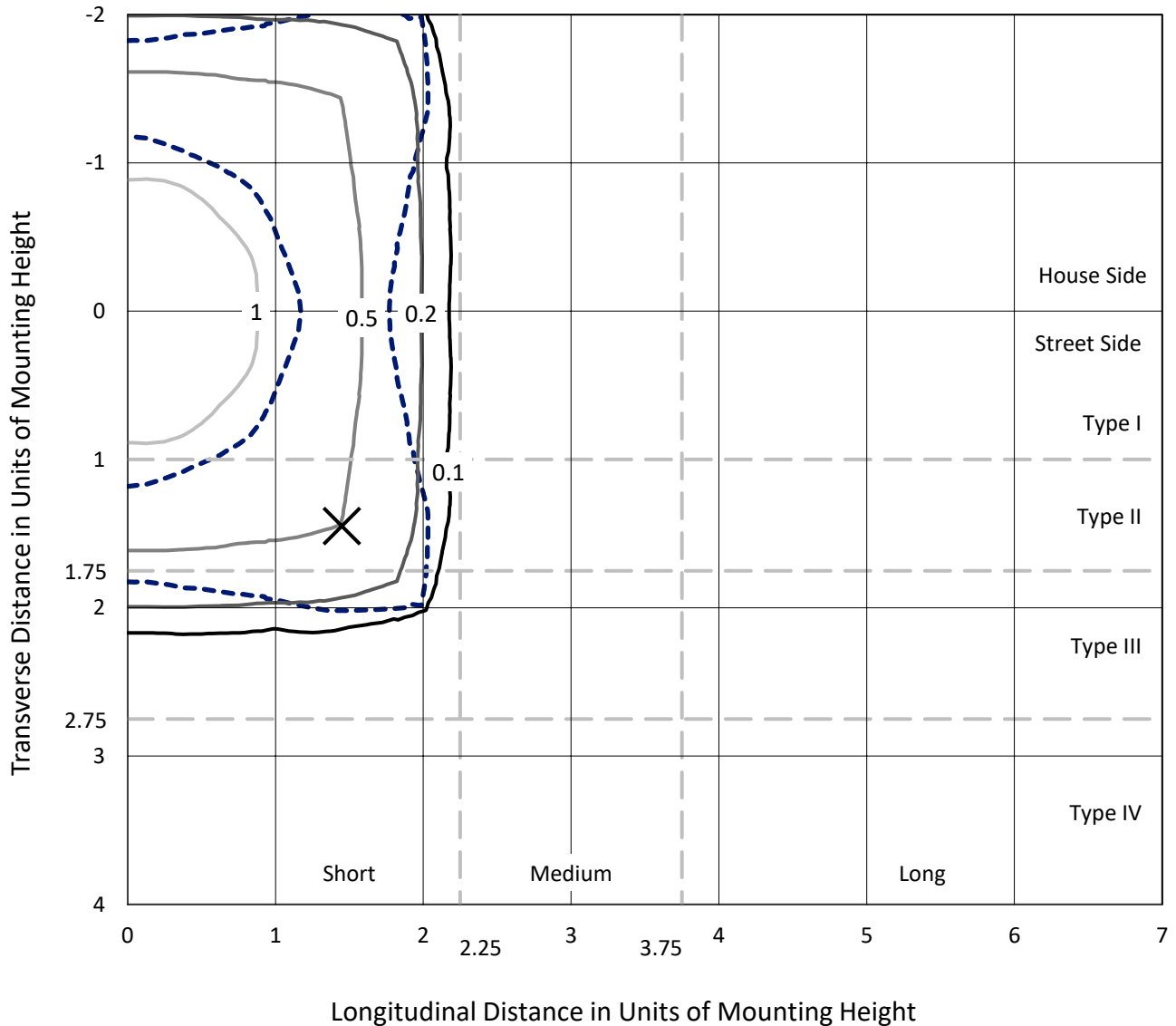
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

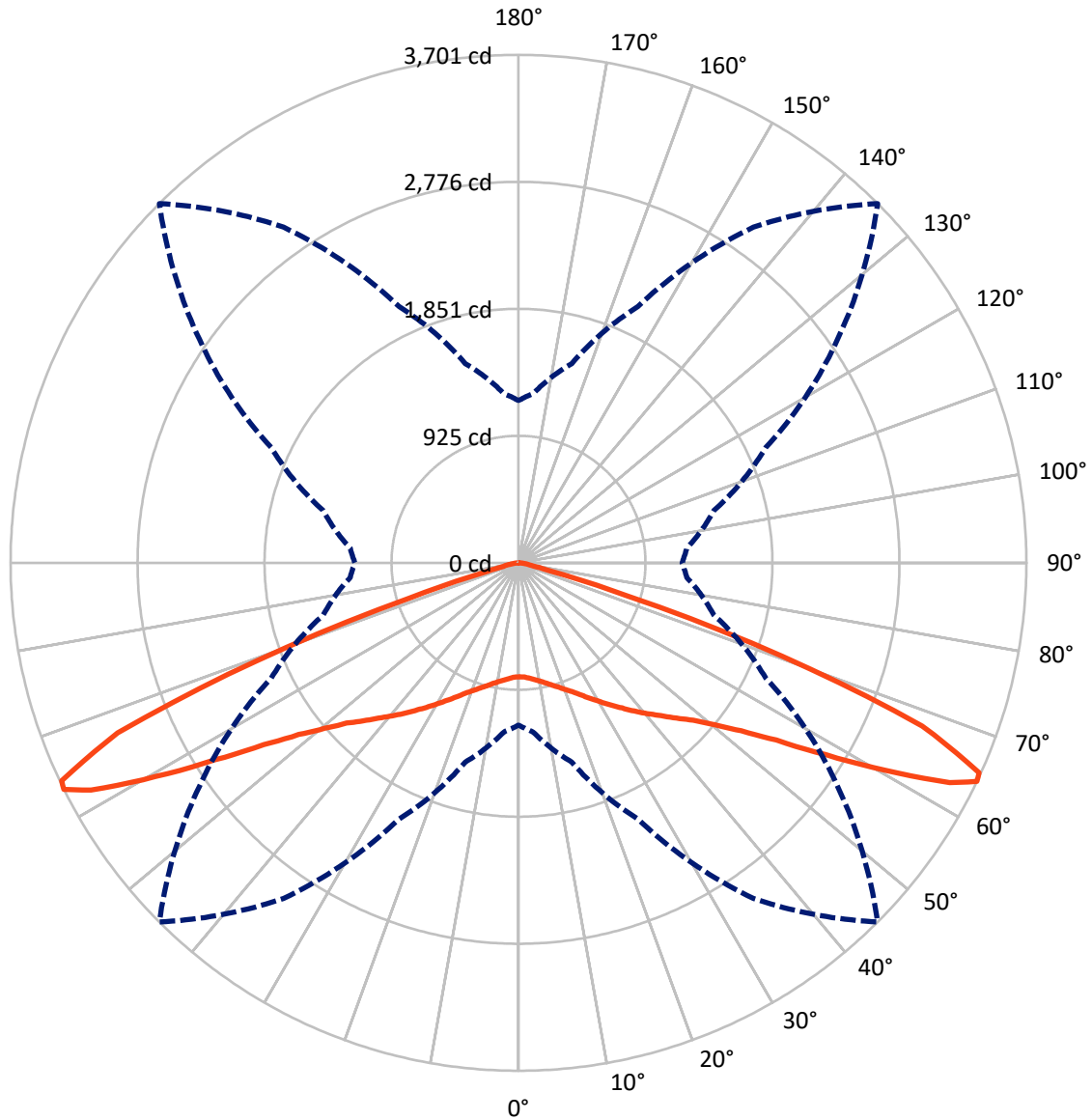
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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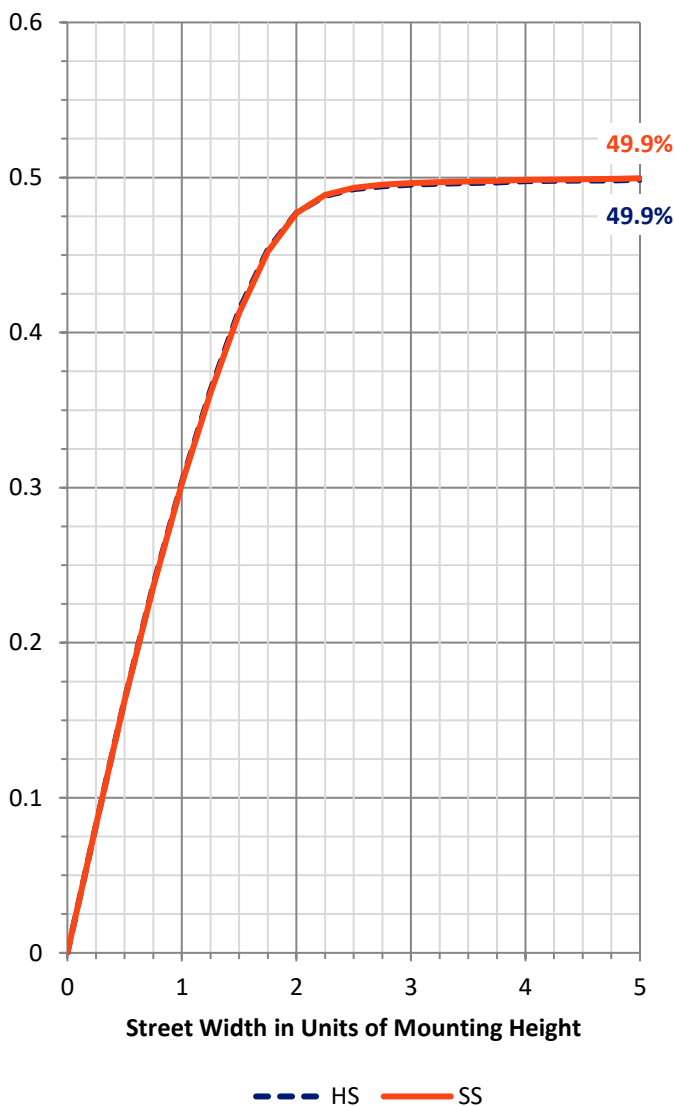
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3435.1	0.0	3435.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3435.1	0.0	3435.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6870.1	0.0	6870.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	1.2
10°-20°	263.1	3.8
20°-30°	497.3	7.2
30°-40°	823.5	12.0
40°-50°	1285.7	18.7
50°-60°	1987.6	28.9
60°-70°	1713.9	24.9
70°-80°	194.2	2.8
80°-90°	23.3	0.3
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°	6870.1	100.0
0°-180°	6870.1	100.0

**Coefficient of Utilization**



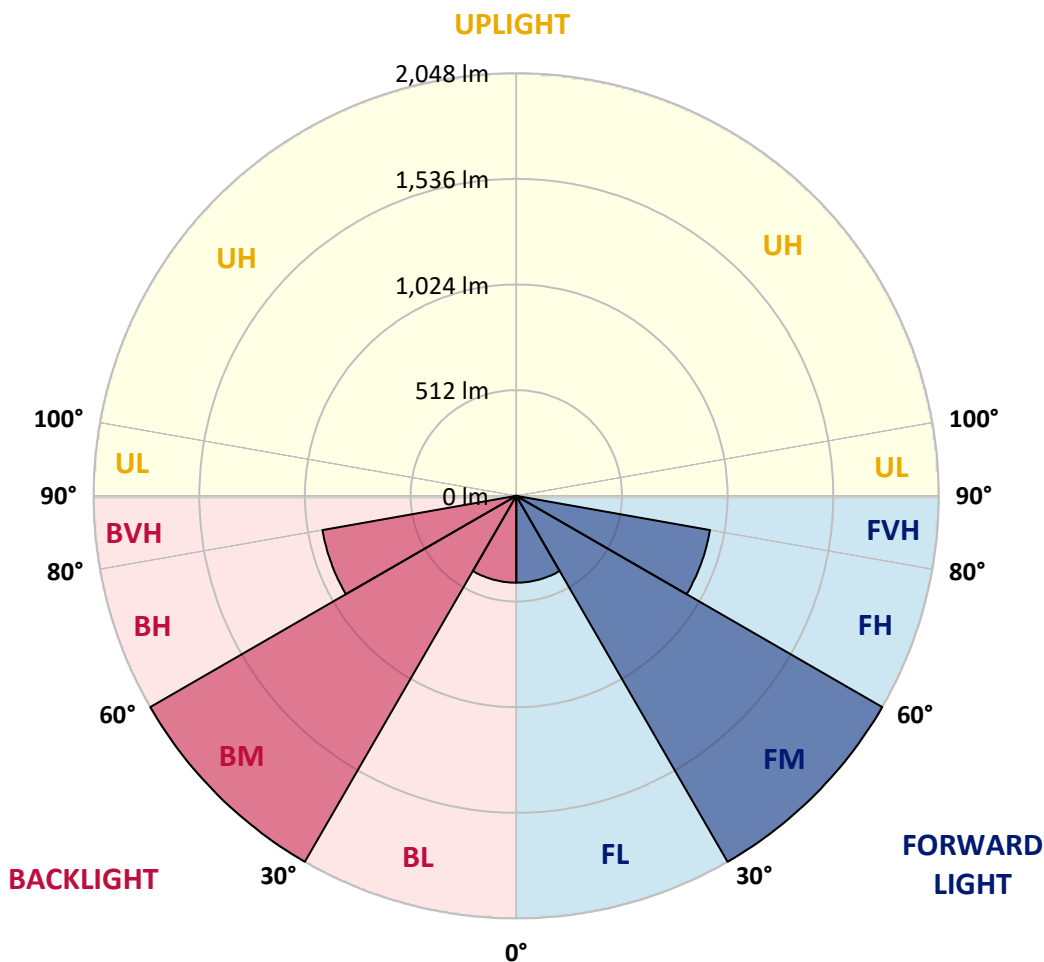
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.0	6.1			
FM (30°-60°)	2048.4	29.8			
FH (60°-80°)	954.1	13.9			G1/1800
FVH (80°-90°)	11.6	0.2			G1/100
BL (0°-30°)	421.0	6.1	B1/500		
BM (30°-60°)	2048.4	29.8	B2/2500		
BH (60°-80°)	954.1	13.9	B2/1000		G1/1800
BVH (80°-90°)	11.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4
2.5°	833.7	835.4	834.0	833.7	833.3	833.3	833.3	833.7	835.1	836.2	835.4
5°	844.2	845.6	845.0	844.5	844.2	844.5	843.9	843.4	844.5	844.5	844.2
7.5°	857.3	859.1	858.4	859.1	859.5	859.8	858.0	856.6	856.2	857.3	856.6
10°	875.1	876.6	876.9	877.3	878.0	877.7	875.5	873.0	872.6	872.2	871.9
12.5°	895.2	896.3	896.6	898.0	899.1	899.5	896.9	894.7	891.1	891.9	890.5
15°	917.7	919.9	919.5	921.7	924.6	925.4	922.8	919.1	915.8	914.1	913.0
17.5°	945.4	946.8	946.1	948.2	951.9	953.7	951.5	946.8	943.5	939.6	937.4
20°	978.1	980.7	981.4	981.4	984.6	986.5	983.2	981.8	976.7	973.7	971.9
22.5°	1015.3	1016.3	1018.5	1020.6	1023.9	1023.2	1022.2	1020.0	1015.3	1012.6	1009.8
25°	1057.1	1058.1	1063.6	1068.3	1069.4	1068.7	1067.2	1066.1	1061.8	1056.0	1053.8
27.5°	1105.8	1108.0	1115.3	1119.6	1119.6	1120.0	1117.1	1120.7	1111.3	1104.4	1103.6
30°	1167.0	1168.4	1174.6	1179.0	1176.8	1175.0	1174.2	1177.9	1167.6	1155.3	1152.4
32.5°	1227.4	1232.5	1238.0	1247.4	1239.7	1236.4	1235.8	1238.3	1226.6	1212.8	1208.8
35°	1292.1	1295.8	1306.0	1314.0	1307.1	1299.4	1302.7	1310.7	1296.8	1278.3	1277.6
37.5°	1363.8	1367.1	1380.2	1388.6	1383.4	1370.3	1375.8	1385.3	1371.4	1348.5	1343.8
40°	1438.4	1445.3	1461.7	1470.4	1462.1	1444.6	1454.8	1464.9	1452.6	1426.0	1415.5
42.5°	1522.1	1533.1	1556.7	1561.1	1545.0	1521.4	1539.2	1555.6	1546.9	1516.3	1512.3
45°	1620.0	1626.6	1655.7	1665.1	1642.9	1613.5	1635.7	1665.4	1659.0	1623.6	1616.0
47.5°	1729.5	1735.7	1765.9	1780.1	1752.1	1712.4	1752.5	1791.4	1787.4	1749.5	1745.9
50°	1859.0	1860.5	1902.3	1918.4	1890.3	1856.2	1891.8	1940.2	1924.2	1875.8	1875.1
52.5°	2001.0	2002.8	2055.6	2086.5	2070.8	2032.3	2074.5	2103.9	2063.2	1999.9	1995.1
55°	2123.9	2133.0	2205.1	2287.4	2308.8	2280.8	2293.5	2279.7	2179.3	2090.5	2076.7
57.5°	2174.2	2192.0	2301.6	2455.0	2594.8	2636.3	2538.1	2406.4	2225.5	2100.0	2086.5
60°	2051.5	2070.8	2240.8	2532.3	2888.8	3069.0	2792.8	2427.8	2120.3	1943.8	1922.7
62.5°	1642.9	1648.4	1898.4	2350.7	3060.2	3526.7	2900.1	2244.8	1814.3	1574.5	1566.1
64°	1182.3	1238.3	1503.2	2061.0	2985.3	3701.0	2838.3	1988.2	1473.7	1231.0	1191.7
65°	884.2	899.5	1211.7	1760.0	2853.2	3687.9	2718.2	1743.0	1220.5	942.1	898.4
67.5°	334.0	335.9	447.2	877.3	2031.2	3173.0	2074.5	948.2	514.2	371.9	358.4
70°	138.6	141.2	164.1	295.1	873.0	2037.3	1000.3	342.0	188.1	152.5	150.3
72.5°	101.5	102.9	109.9	131.0	268.5	836.5	328.9	145.2	110.3	98.6	97.6
75°	79.7	80.4	85.5	96.5	125.1	231.8	136.8	99.7	84.0	75.7	74.9
77.5°	60.8	62.6	66.2	73.5	84.0	109.9	90.6	74.6	64.8	57.9	56.8
80°	41.9	44.1	51.0	53.8	56.4	71.3	61.9	56.4	50.5	42.2	39.7
82.5°	25.8	27.3	34.2	36.8	35.7	40.0	39.7	40.4	36.0	26.2	24.4
85°	13.5	14.2	18.6	19.3	17.8	16.4	20.4	23.6	22.2	14.9	14.5
87.5°	2.9	3.3	4.0	3.6	4.0	4.0	5.1	7.7	8.0	5.1	4.7
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)