

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: P458572

Luminaire Tested: **GALN-SA1C-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458572  
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-SA1C-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6916 lumens  
Efficiency: N/A  
Efficacy: 121.3 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

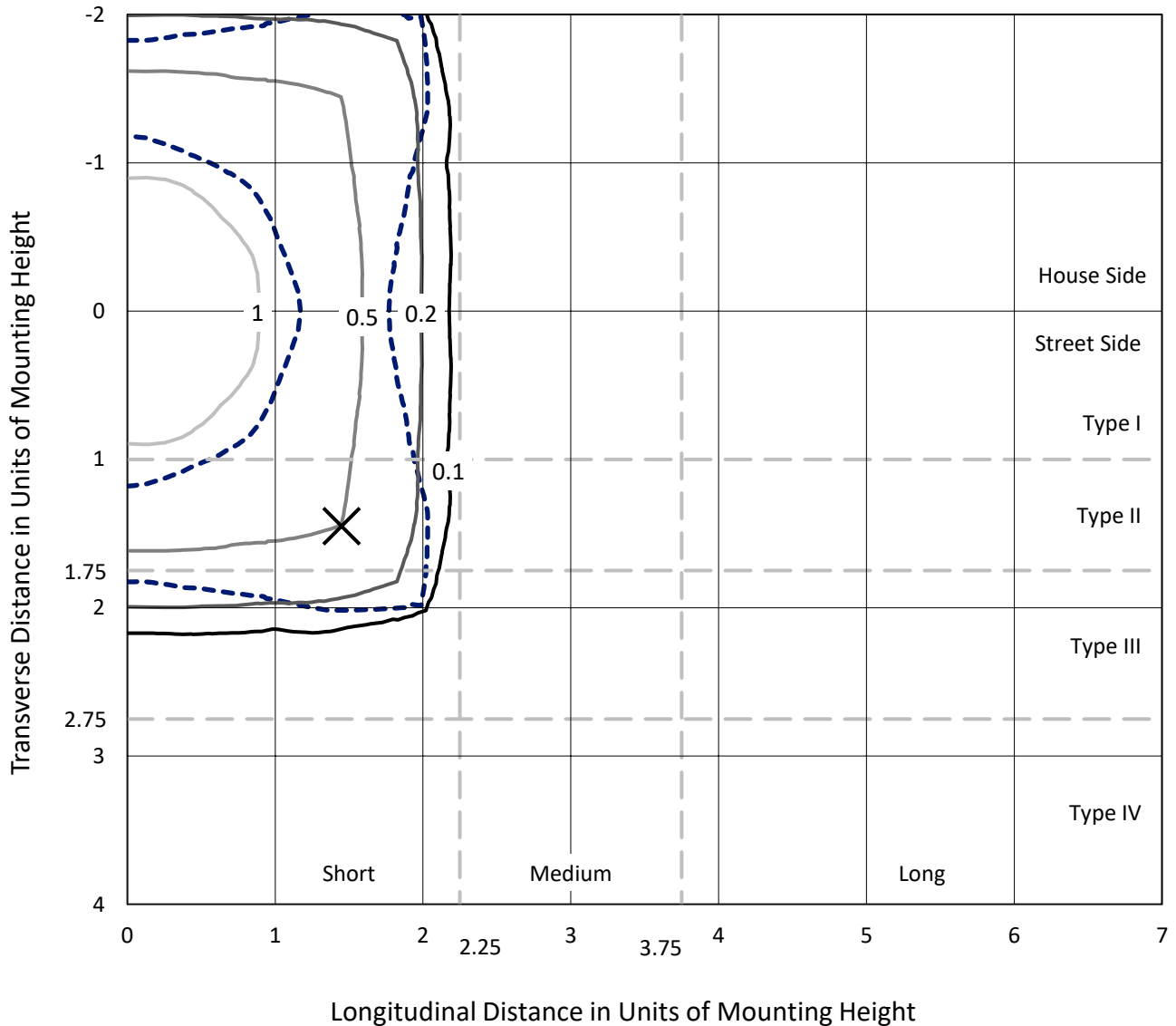
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

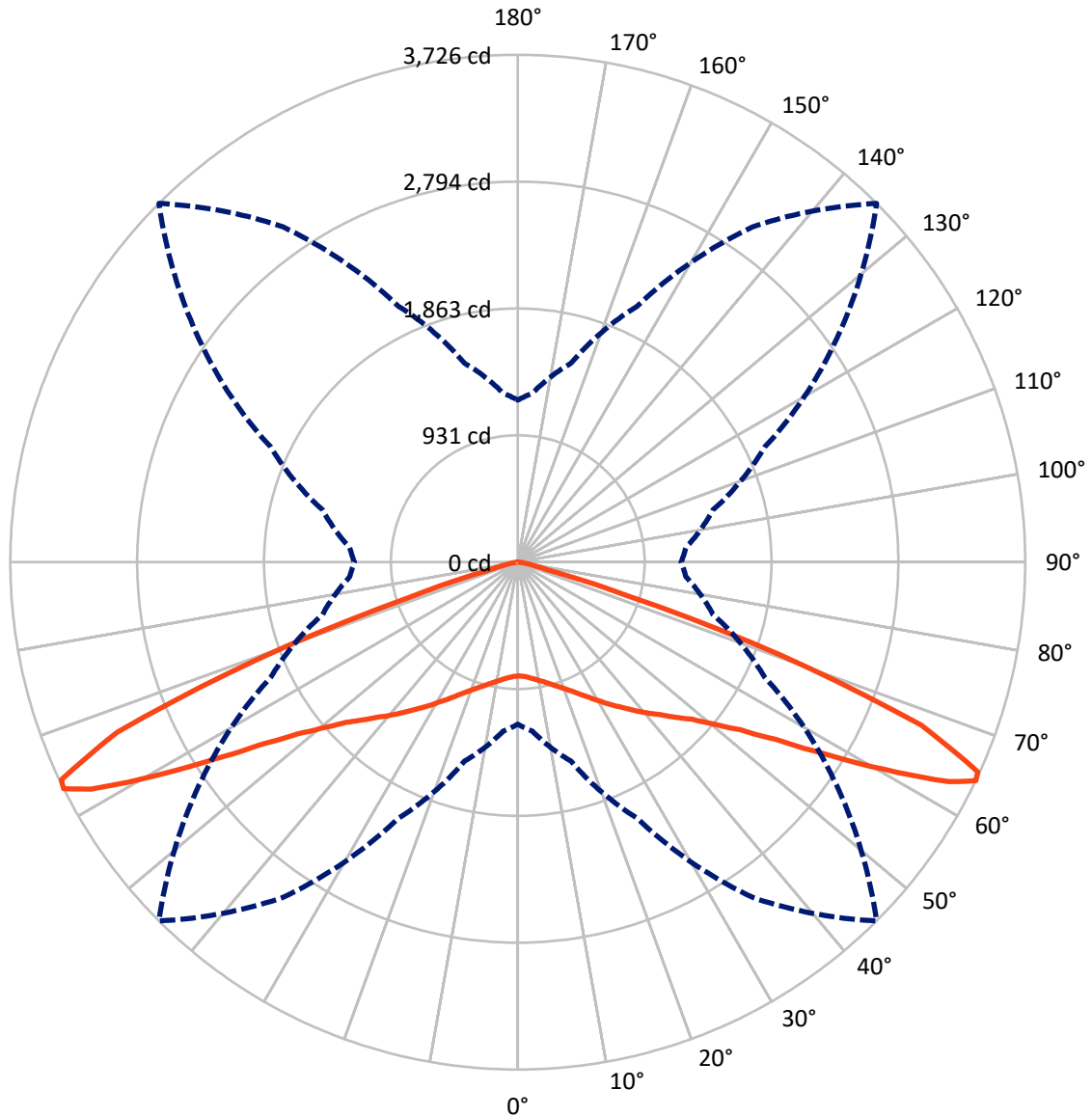
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	3458.0	0.0	3458.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3458.0	0.0	3458.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6916.0	0.0	6916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	1.2
10°-20°	264.9	3.8
20°-30°	500.6	7.2
30°-40°	829.0	12.0
40°-50°	1294.2	18.7
50°-60°	2000.9	28.9
60°-70°	1725.3	24.9
70°-80°	195.5	2.8
80°-90°	23.4	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°	6916.0	100.0
0°-180°	6916.0	100.0

**Coefficient of Utilization**



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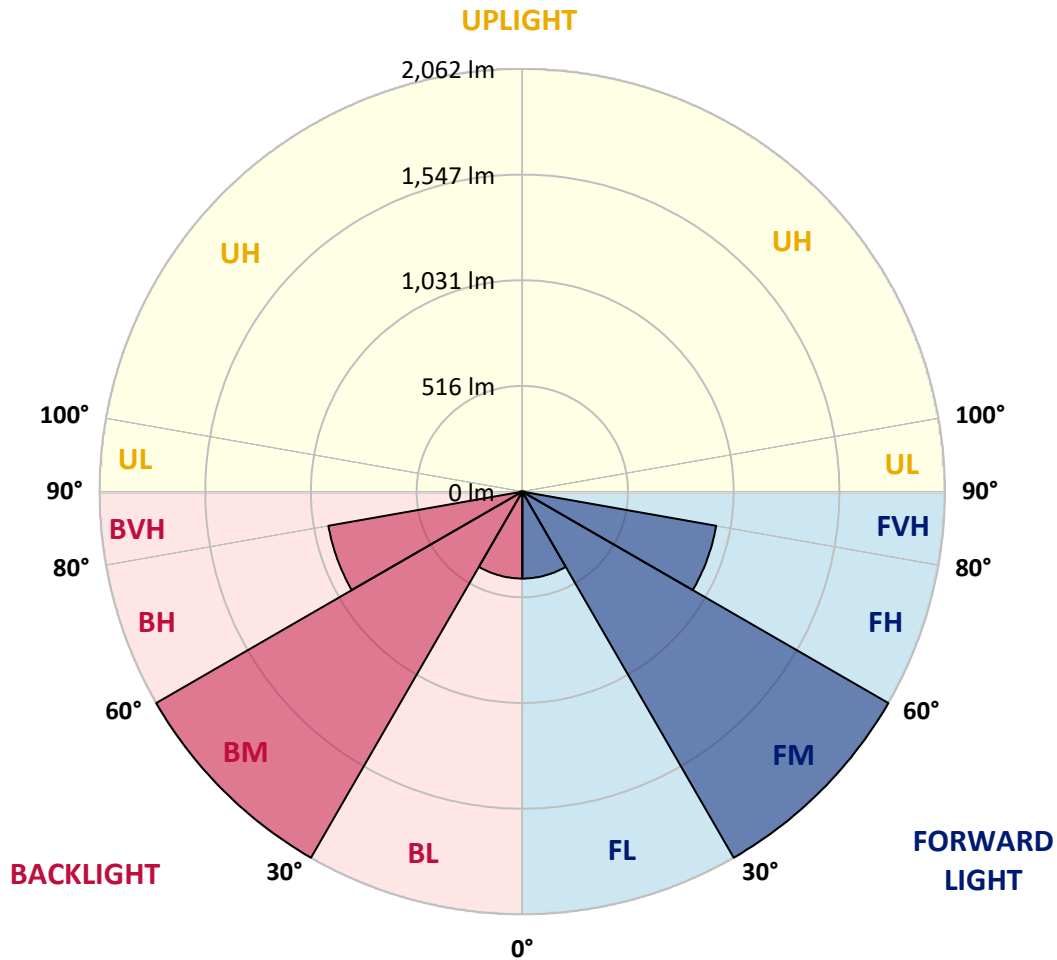
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.8	6.1			
FM	(30°-60°)	2062.1	29.8			
FH	(60°-80°)	960.4	13.9			G1/1800
FVH	(80°-90°)	11.7	0.2			G1/100
BL	(0°-30°)	423.8	6.1	B1/500		
BM	(30°-60°)	2062.1	29.8	B2/2500		
BH	(60°-80°)	960.4	13.9	B2/1000		G1/1800
BVH	(80°-90°)	11.7	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°	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9
2.5°	839.2	841.0	839.6	839.2	838.8	838.8	838.8	839.2	840.7	841.8	841.0
5°	849.8	851.3	850.6	850.2	849.8	850.2	849.5	849.1	850.2	850.2	849.8
7.5°	863.0	864.9	864.1	864.9	865.2	865.6	863.8	862.3	861.9	863.0	862.3
10°	881.0	882.4	882.8	883.2	883.9	883.5	881.3	878.8	878.4	878.0	877.7
12.5°	901.1	902.2	902.6	904.0	905.1	905.5	902.9	900.8	897.1	897.8	896.4
15°	923.8	926.0	925.7	927.9	930.8	931.5	929.0	925.3	922.0	920.2	919.1
17.5°	951.7	953.1	952.4	954.6	958.3	960.1	957.9	953.1	949.8	945.8	943.6
20°	984.6	987.2	987.9	987.9	991.2	993.1	989.8	988.3	983.2	980.2	978.4
22.5°	1022.0	1023.1	1025.3	1027.5	1030.8	1030.1	1029.0	1026.8	1022.0	1019.4	1016.5
25°	1064.1	1065.2	1070.7	1075.5	1076.6	1075.8	1074.4	1073.3	1068.9	1063.0	1060.8
27.5°	1113.2	1115.4	1122.7	1127.1	1127.1	1127.5	1124.6	1128.2	1118.7	1111.7	1111.0
30°	1174.7	1176.2	1182.4	1186.8	1184.6	1182.8	1182.1	1185.7	1175.5	1163.0	1160.1
32.5°	1235.6	1240.7	1246.2	1255.7	1248.0	1244.7	1244.0	1246.5	1234.8	1220.9	1216.9
35°	1300.8	1304.4	1314.7	1322.7	1315.8	1308.1	1311.4	1319.4	1305.5	1286.8	1286.1
37.5°	1372.9	1376.2	1389.4	1397.8	1392.7	1379.5	1385.0	1394.5	1380.6	1357.5	1352.8
40°	1448.0	1455.0	1471.5	1480.3	1471.8	1454.2	1464.5	1474.8	1462.3	1435.6	1424.9
42.5°	1532.3	1543.3	1567.1	1571.5	1555.3	1531.5	1549.5	1566.0	1557.2	1526.4	1522.4
45°	1630.8	1637.4	1666.7	1676.2	1653.9	1624.2	1646.6	1676.6	1670.0	1634.5	1626.8
47.5°	1741.1	1747.3	1777.7	1792.0	1763.8	1723.8	1764.1	1803.3	1799.3	1761.2	1757.5
50°	1871.5	1872.9	1915.1	1931.2	1903.0	1868.5	1904.4	1953.2	1937.0	1888.3	1887.6
52.5°	2014.3	2016.2	2069.3	2100.4	2084.7	2045.8	2088.3	2118.0	2077.0	2013.2	2008.5
55°	2138.1	2147.3	2219.8	2302.6	2324.2	2296.0	2308.8	2294.9	2193.8	2104.4	2090.5
57.5°	2188.7	2206.6	2316.9	2471.5	2612.1	2653.9	2555.0	2422.4	2240.3	2114.0	2100.4
60°	2065.2	2084.7	2255.7	2549.1	2908.1	3089.4	2811.4	2444.0	2134.5	1956.8	1935.6
62.5°	1653.9	1659.4	1911.0	2366.3	3080.7	3550.3	2919.5	2259.8	1826.4	1585.0	1576.6
64°	1190.1	1246.5	1513.2	2074.8	3005.2	3725.7	2857.2	2001.5	1483.5	1239.2	1199.7
65°	890.1	905.5	1219.8	1771.8	2872.2	3712.5	2736.3	1754.6	1228.6	948.4	904.4
67.5°	336.3	338.1	450.2	883.2	2044.7	3194.2	2088.3	954.6	517.6	374.4	360.8
70°	139.6	142.1	165.2	297.1	878.8	2051.0	1007.0	344.3	189.4	153.5	151.3
72.5°	102.2	103.7	110.6	131.9	270.3	842.1	331.1	146.2	111.0	99.3	98.2
75°	80.2	81.0	86.1	97.1	126.0	233.3	137.7	100.4	84.6	76.2	75.5
77.5°	61.2	63.0	66.7	74.0	84.6	110.6	91.2	75.1	65.2	58.2	57.1
80°	42.1	44.3	51.3	54.2	56.8	71.8	62.3	56.8	50.9	42.5	39.9
82.5°	26.0	27.5	34.4	37.0	35.9	40.3	39.9	40.7	36.3	26.4	24.5
85°	13.6	14.3	18.7	19.4	17.9	16.5	20.5	23.8	22.3	15.0	14.7
87.5°	2.9	3.3	4.0	3.7	4.0	4.0	5.1	7.7	8.1	5.1	4.8
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)