

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: P646704

Luminaire Tested: **GALN-SA1C-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4916.5 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

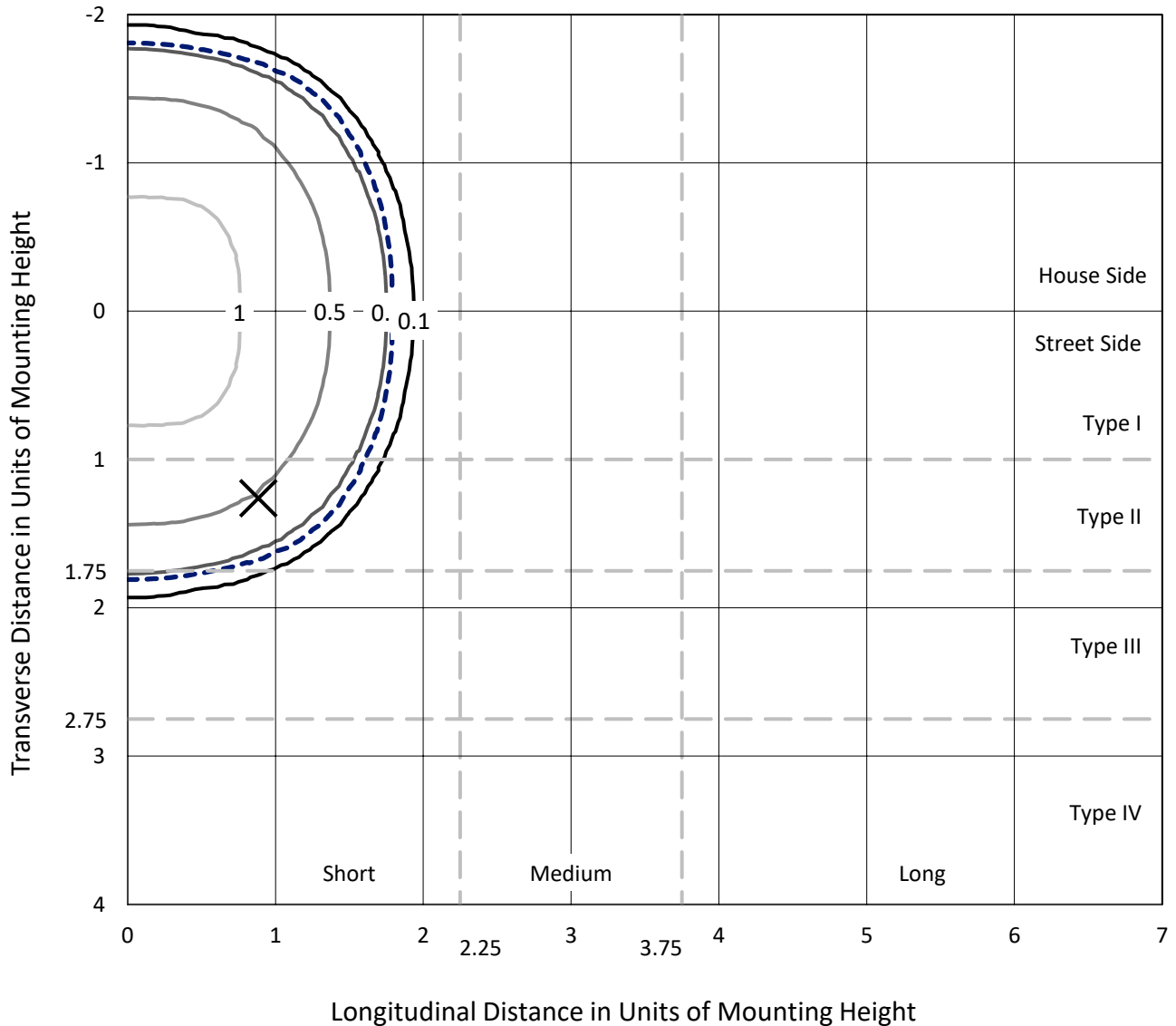
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

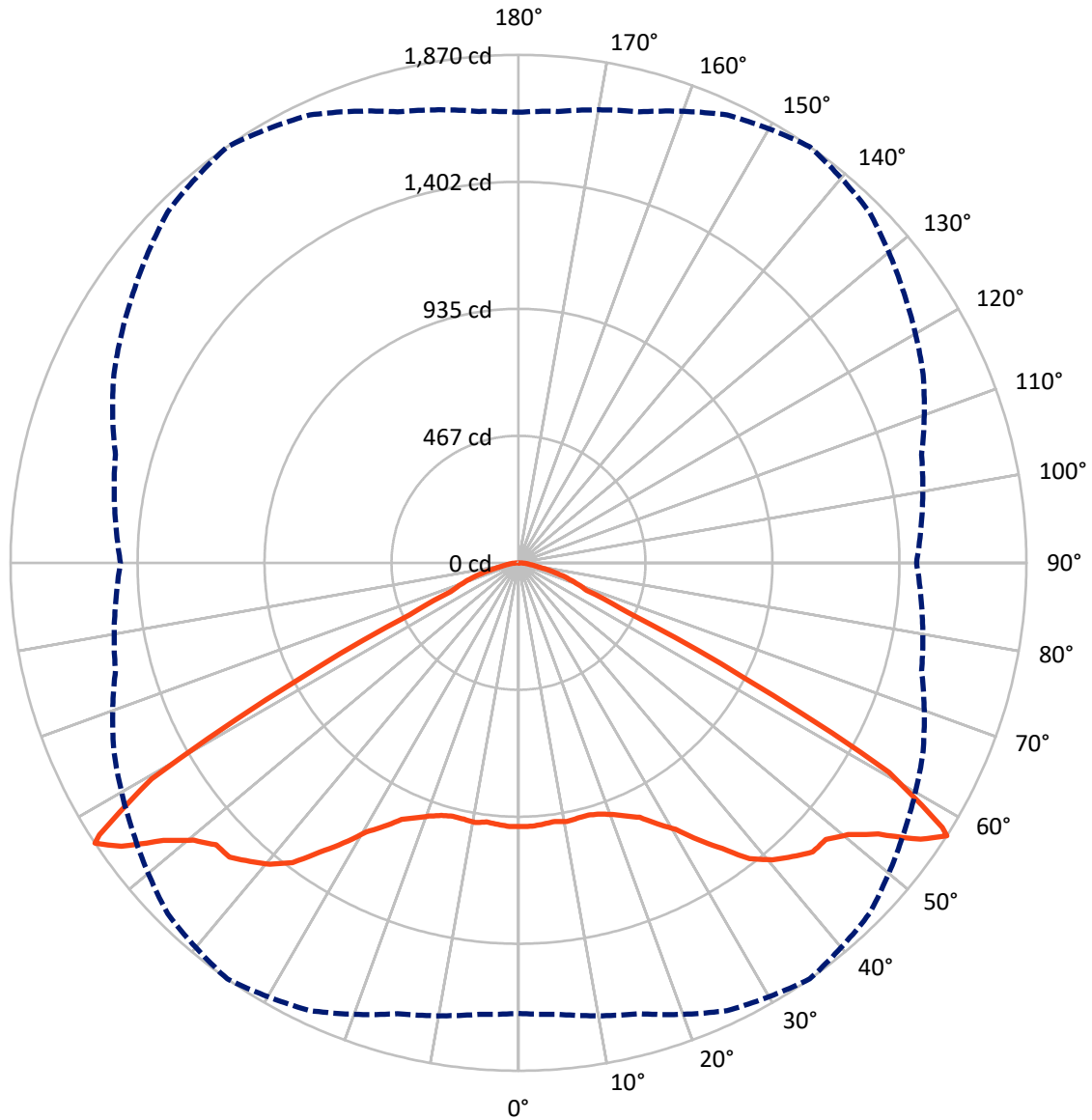
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2458.2	0.0	2458.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2458.2	0.0	2458.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4916.5	0.0	4916.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	1.9
10°-20°	272.6	5.5
20°-30°	476.1	9.7
30°-40°	780.2	15.9
40°-50°	1143.9	23.3
50°-60°	1440.9	29.3
60°-70°	541.9	11.0
70°-80°	144.1	2.9
80°-90°	24.7	0.5
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°	4916.5	100.0
0°-180°	4916.5	100.0

**Coefficient of Utilization**



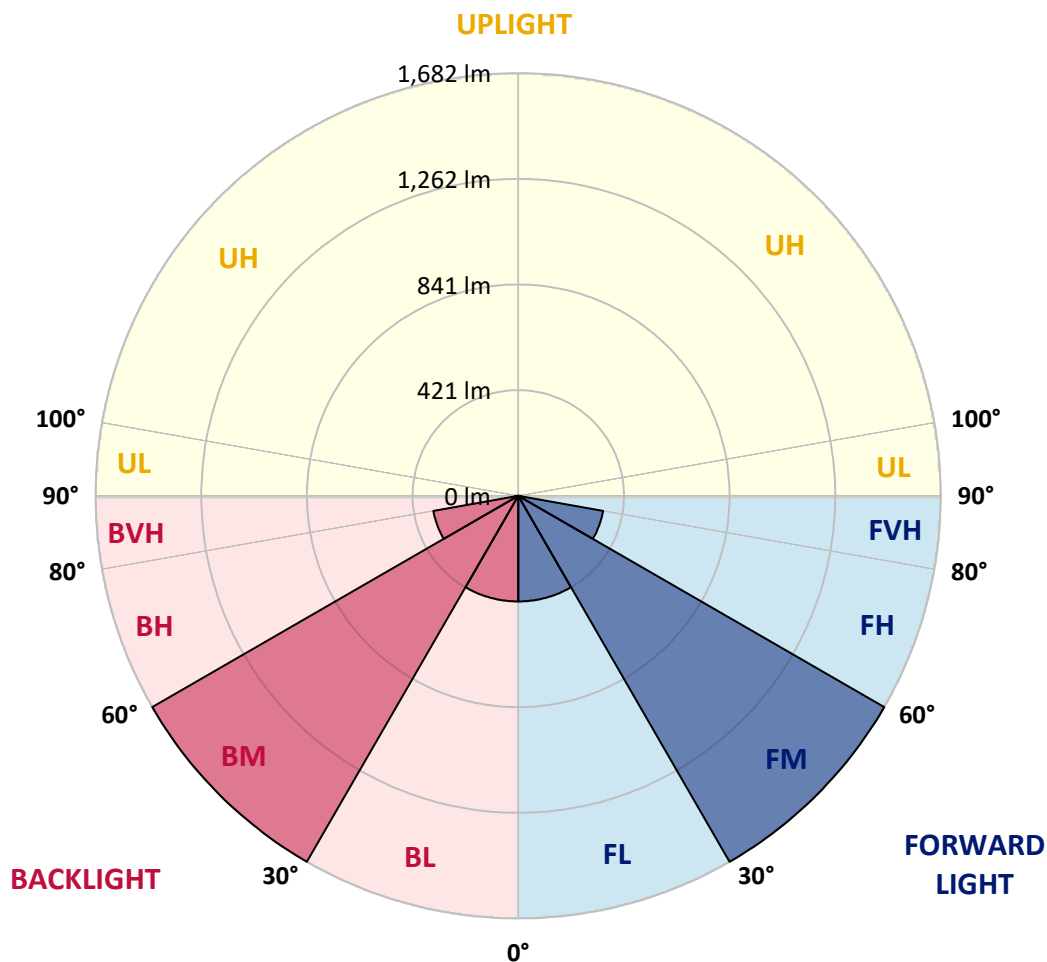
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.4	8.6			
FM (30°-60°)	1682.5	34.2			
FH (60°-80°)	343.0	7.0			G0/660
FVH (80°-90°)	12.4	0.3			G1/100
BL (0°-30°)	420.4	8.6	B1/500		
BM (30°-60°)	1682.5	34.2	B2/2500		
BH (60°-80°)	343.0	7.0	B1/500		G0/660
BVH (80°-90°)	12.4	0.3			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°	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0
2.5°	966.1	975.8	971.5	969.1	971.0	967.9	963.1	968.6	967.3	962.5	960.7
5°	963.7	971.0	966.1	971.0	966.1	974.6	972.2	963.1	974.0	963.7	967.3
7.5°	961.9	964.3	965.5	963.1	961.3	971.5	966.1	961.9	955.8	954.0	957.1
10°	957.6	963.7	954.6	966.7	969.1	961.9	961.9	954.0	949.2	946.1	956.4
12.5°	968.6	958.2	957.1	963.1	964.9	967.9	959.5	955.2	946.1	947.4	945.6
15°	955.8	960.0	960.7	961.9	963.7	971.0	963.1	954.0	950.4	937.6	938.9
17.5°	960.7	956.4	960.7	974.6	972.2	977.7	969.1	955.2	946.7	939.4	949.2
20°	969.1	967.3	969.1	986.1	989.2	994.0	986.7	974.0	957.6	949.2	954.0
22.5°	978.2	977.0	978.2	994.6	1012.2	1018.2	1010.9	981.3	972.8	957.1	951.6
25°	994.6	995.8	1008.5	1026.7	1038.2	1049.7	1036.4	1015.2	987.9	978.2	966.7
27.5°	1030.9	1034.0	1041.2	1067.9	1087.9	1098.2	1079.4	1050.3	1033.3	1013.4	1010.3
30°	1075.8	1075.8	1088.4	1111.5	1138.7	1154.5	1131.5	1097.0	1076.4	1065.4	1058.8
32.5°	1135.1	1128.5	1133.3	1173.9	1216.3	1229.6	1198.7	1156.3	1123.6	1109.0	1104.2
35°	1186.0	1190.2	1201.1	1244.7	1292.0	1322.9	1274.4	1219.3	1186.0	1172.7	1170.3
37.5°	1252.0	1259.3	1264.7	1324.7	1381.6	1393.1	1346.5	1302.3	1261.7	1250.8	1244.7
40°	1345.3	1340.4	1342.3	1386.5	1438.0	1445.3	1399.2	1367.7	1334.4	1327.7	1327.7
42.5°	1422.2	1416.8	1422.9	1439.2	1478.5	1473.1	1447.7	1424.7	1410.7	1403.4	1410.7
45°	1468.8	1467.7	1478.5	1490.7	1518.6	1500.4	1480.3	1484.0	1470.7	1458.6	1457.9
47.5°	1519.7	1511.9	1525.2	1543.4	1522.2	1513.7	1512.4	1520.4	1516.1	1494.9	1488.2
50°	1544.5	1541.6	1562.7	1583.9	1572.4	1553.1	1557.3	1570.0	1515.5	1487.1	1470.7
52.5°	1611.2	1611.8	1652.4	1663.9	1659.0	1630.6	1639.7	1605.2	1540.9	1500.9	1502.8
55°	1716.0	1711.8	1757.2	1791.1	1796.6	1760.2	1716.6	1668.2	1587.6	1547.0	1534.9
57°	1658.5	1668.2	1718.5	1819.0	1869.9	1826.8	1731.8	1643.3	1536.1	1487.1	1465.2
57.5°	1581.5	1597.2	1684.5	1785.6	1839.0	1835.4	1713.0	1597.2	1501.6	1425.2	1427.1
60°	1158.8	1161.7	1240.5	1401.0	1567.6	1571.2	1422.2	1269.0	1162.4	1079.4	1090.9
62.5°	611.1	625.1	656.6	785.6	929.8	964.9	874.7	795.9	703.8	640.9	646.9
65°	323.5	321.7	336.8	373.1	444.0	462.1	450.1	387.7	355.6	345.2	345.9
67.5°	262.9	265.9	264.1	265.9	270.8	278.6	276.8	279.2	281.0	284.1	283.4
70°	222.9	222.9	224.1	224.7	224.7	228.3	232.6	240.5	241.1	244.1	245.3
72.5°	175.6	174.5	176.3	180.5	181.1	184.2	190.2	195.0	196.8	196.8	193.2
75°	119.3	120.5	122.9	126.6	130.2	135.7	140.5	143.5	144.8	143.0	141.1
77.5°	67.3	68.4	70.2	75.7	79.9	84.8	90.3	93.3	96.3	96.9	93.3
80°	40.0	40.0	43.0	47.2	52.1	56.9	61.8	65.4	66.6	66.6	64.8
82.5°	24.2	24.8	27.2	31.5	35.7	38.8	43.0	46.0	48.5	47.8	46.7
85°	12.7	12.7	15.1	18.8	21.8	24.8	24.8	23.0	21.8	18.8	17.5
87.5°	4.2	3.6	4.9	4.9	4.2	4.9	4.9	5.5	5.5	5.5	5.5
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)