

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: P650671

Luminaire Tested: **GALN-SA1C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650671
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-SA1C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6261.3 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

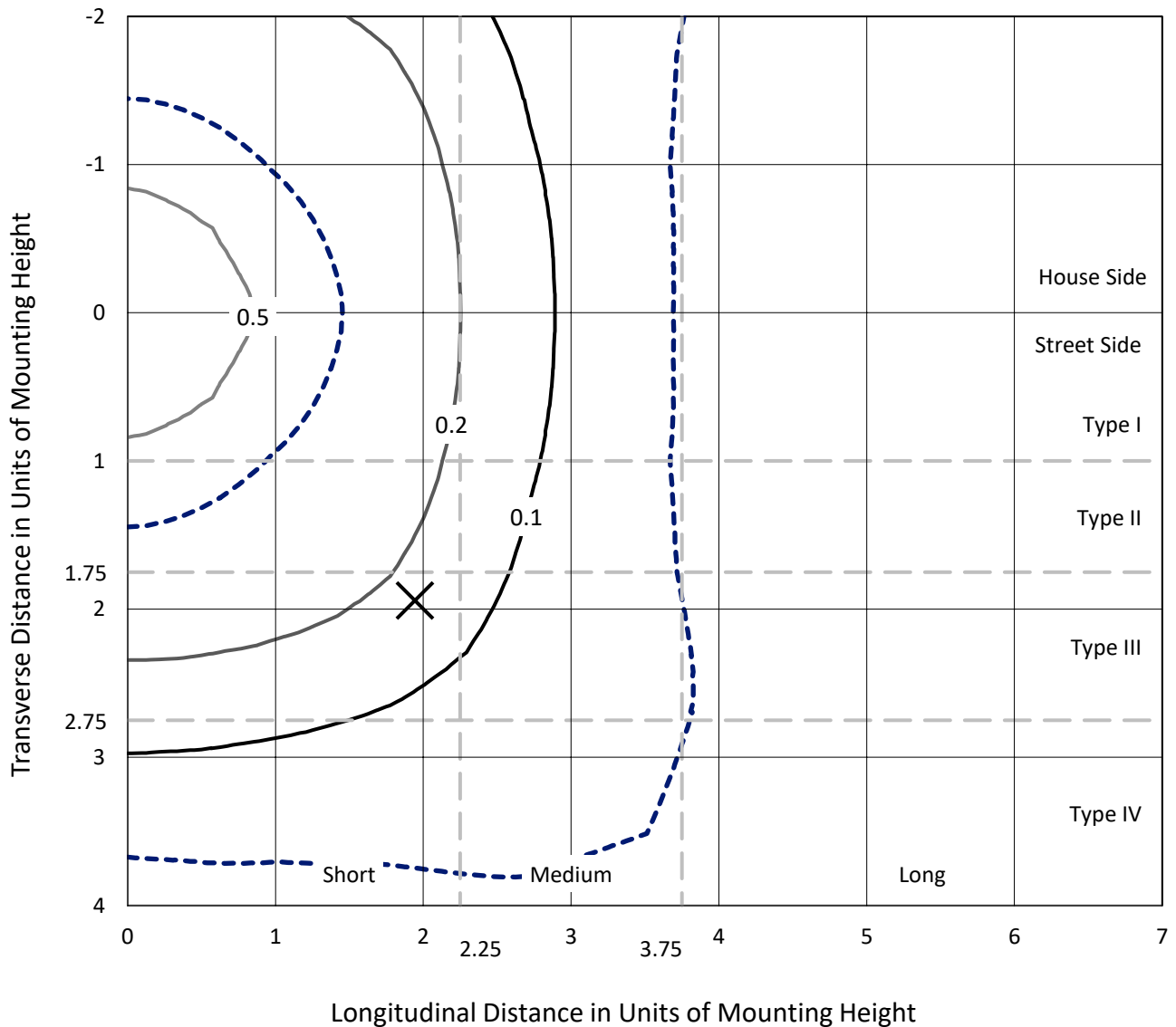
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

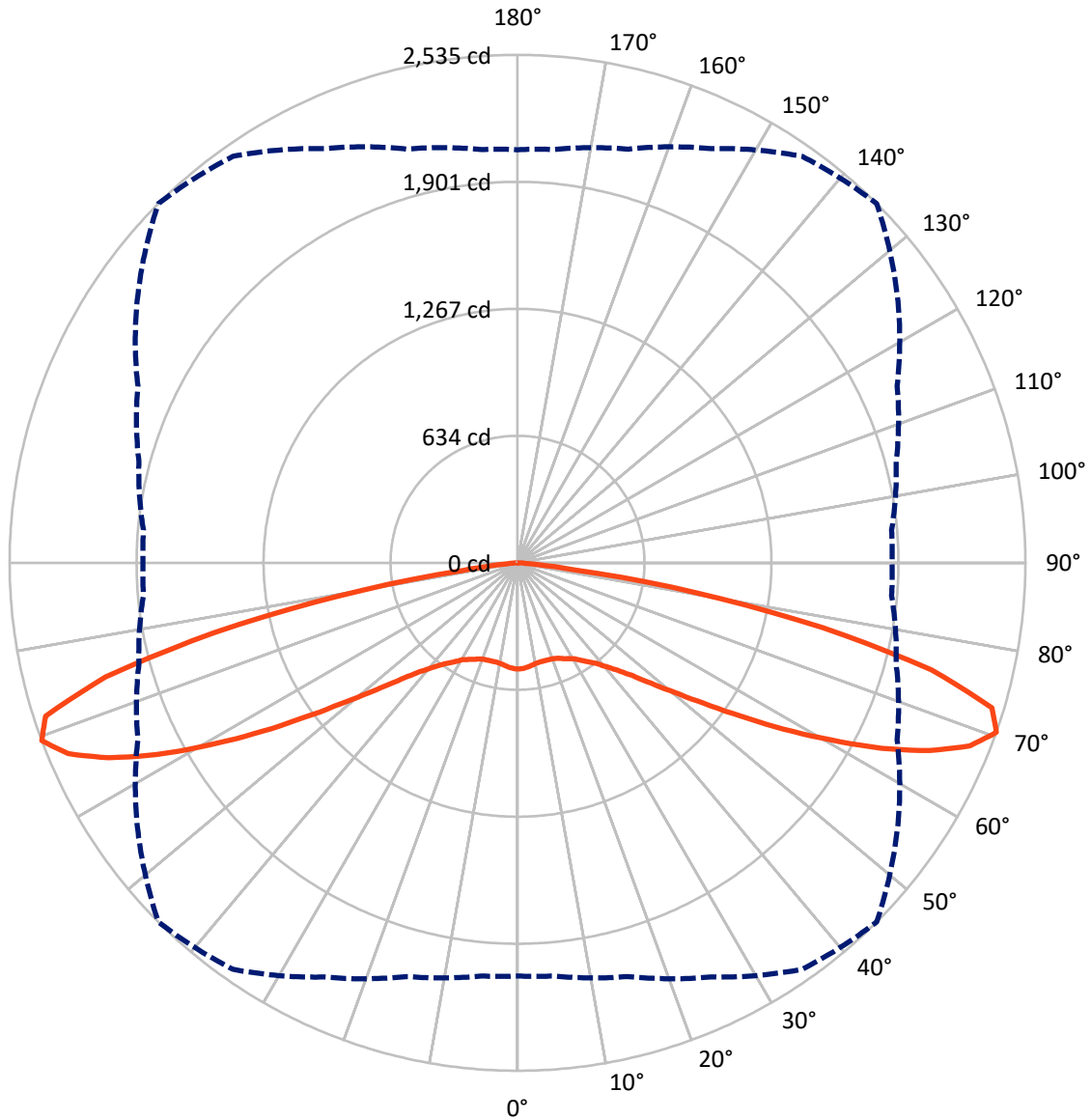
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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
House Side	Lumens	3130.6	0.0	3130.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3130.6	0.0	3130.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6261.3	0.0	6261.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	0.8
10°-20°	145.1	2.3
20°-30°	247.3	3.9
30°-40°	383.3	6.1
40°-50°	645.1	10.3
50°-60°	1173.7	18.7
60°-70°	1987.0	31.7
70°-80°	1538.0	24.6
80°-90°	92.2	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°	6261.3	100.0
0°-180°	6261.3	100.0

Coefficient of Utilization



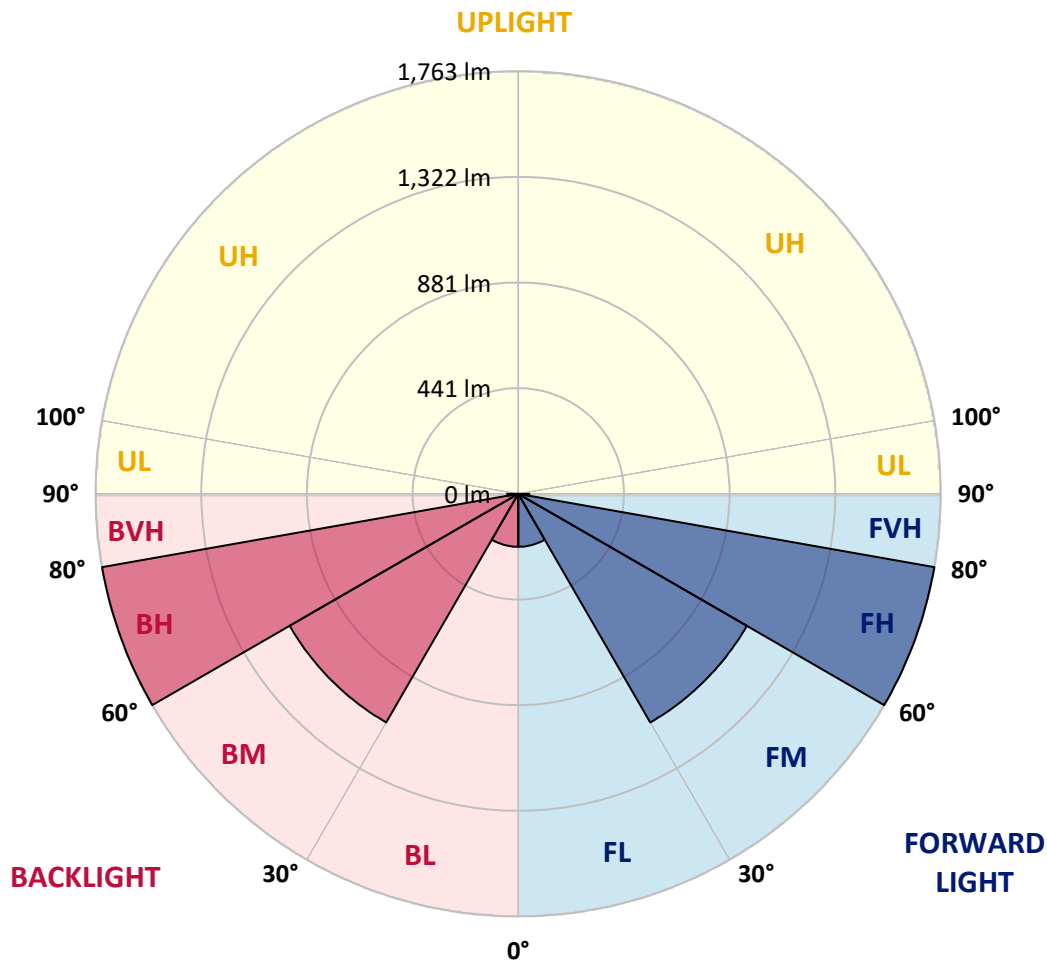
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.0	3.5			
FM (30°-60°)	1101.0	17.6			
FH (60°-80°)	1762.5	28.1			G1/1800
FVH (80°-90°)	46.1	0.7			G1/100
BL (0°-30°)	221.0	3.5	B1/500		
BM (30°-60°)	1101.0	17.6	B2/2500		
BH (60°-80°)	1762.5	28.1	B3/2500		G1/1800
BVH (80°-90°)	46.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
2.5°	528.7	529.1	529.1	528.4	528.1	528.1	527.8	527.8	528.7	529.1	529.4
5°	524.1	524.1	524.1	523.8	523.2	523.2	522.5	522.5	522.8	523.8	523.2
7.5°	517.9	518.5	518.5	517.2	516.2	516.2	515.9	516.2	516.5	517.6	517.2
10°	515.9	516.2	514.5	512.3	510.6	510.6	509.9	510.6	512.3	512.9	513.3
12.5°	517.2	517.2	514.2	510.9	508.0	506.6	506.3	508.6	511.6	513.6	514.2
15°	518.8	518.2	514.5	510.2	507.3	507.0	506.6	508.3	512.6	516.5	516.9
17.5°	519.8	519.5	514.9	509.6	508.0	508.0	507.6	508.9	513.6	518.5	518.8
20°	523.2	522.2	516.9	511.2	509.9	510.6	509.6	511.2	516.2	522.2	523.4
22.5°	529.7	528.7	523.4	517.9	517.2	517.2	516.9	518.5	523.8	530.1	531.1
25°	537.7	536.7	531.8	527.8	528.4	529.7	529.1	529.4	533.7	539.0	540.7
27.5°	548.2	546.6	542.4	539.0	541.0	541.0	541.0	540.7	543.3	548.2	549.9
30°	561.2	560.5	555.9	555.6	557.2	555.6	555.6	555.9	556.2	560.9	562.5
32.5°	578.0	576.8	574.4	573.7	578.4	579.7	575.1	570.8	573.1	577.7	578.7
35°	605.9	603.8	600.6	596.9	600.6	606.8	596.9	593.6	599.5	605.9	606.4
37.5°	643.5	642.5	637.2	630.6	630.3	636.9	626.6	626.3	637.6	645.1	646.1
40°	690.8	691.8	685.2	678.9	675.6	680.9	673.0	675.9	686.8	695.4	694.8
42.5°	757.2	753.6	743.4	737.5	733.8	731.8	729.8	734.4	746.7	756.0	763.2
45°	834.9	833.7	820.7	813.5	805.6	802.6	801.9	810.2	825.1	836.3	837.3
47.5°	922.9	920.0	911.7	904.1	901.1	897.5	894.2	900.5	915.3	923.2	925.6
50°	1013.6	1014.2	1014.2	1012.9	1015.8	1016.5	1007.6	1010.0	1018.2	1017.5	1016.9
52.5°	1117.1	1120.7	1137.9	1139.6	1153.8	1163.4	1147.1	1137.5	1134.6	1116.8	1118.0
55°	1238.8	1242.1	1267.9	1293.6	1332.0	1348.2	1314.1	1284.4	1263.2	1236.1	1237.4
57.5°	1390.5	1392.2	1416.7	1466.3	1527.1	1565.1	1505.3	1446.4	1403.5	1377.6	1367.4
60°	1553.9	1555.5	1591.3	1651.8	1746.3	1792.7	1718.6	1622.4	1568.1	1528.8	1531.4
62.5°	1750.0	1756.6	1788.7	1872.0	1986.8	2038.7	1940.4	1811.9	1738.4	1689.5	1691.5
65°	1960.0	1971.2	2006.3	2097.9	2203.7	2259.6	2139.3	1990.7	1899.5	1839.6	1845.9
67.5°	2096.2	2106.1	2156.7	2257.9	2389.9	2436.2	2280.7	2107.8	1993.7	1922.3	1909.1
70°	2061.5	2069.8	2137.2	2280.7	2476.2	2534.7	2314.5	2090.6	1956.3	1874.0	1868.7
72.5°	1819.8	1802.6	1901.1	2107.1	2377.7	2475.8	2208.3	1909.4	1740.4	1655.8	1645.8
75°	1206.0	1243.4	1388.9	1631.6	2011.6	2133.3	1884.9	1533.1	1320.5	1250.0	1239.0
77.5°	403.1	431.9	561.2	924.9	1371.3	1554.3	1373.4	1002.6	709.3	571.5	574.1
80°	106.8	105.5	136.6	254.3	592.6	900.1	689.8	339.6	185.9	134.6	127.7
82.5°	38.3	43.0	55.3	70.5	157.1	279.8	197.4	95.2	69.8	51.6	50.0
85°	16.9	16.6	23.8	28.1	39.4	52.2	46.3	40.4	35.4	23.5	21.9
87.5°	3.6	3.6	5.6	4.3	7.0	7.0	8.6	10.3	10.6	7.0	5.6
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)