

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: P458542

Luminaire Tested: **GALN-SA1B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5625 lumens
Efficiency: N/A
Efficacy: 127.8 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

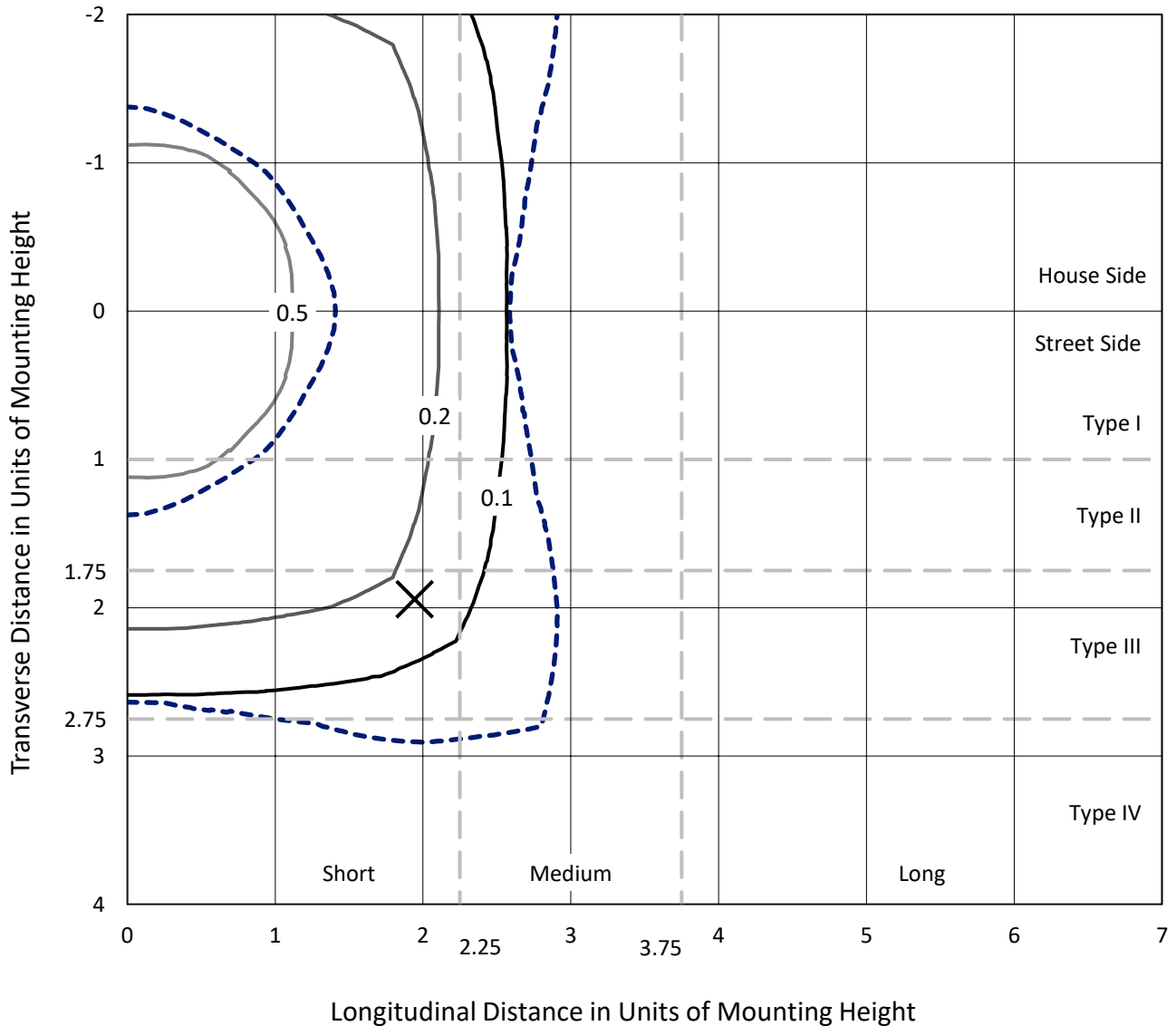
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

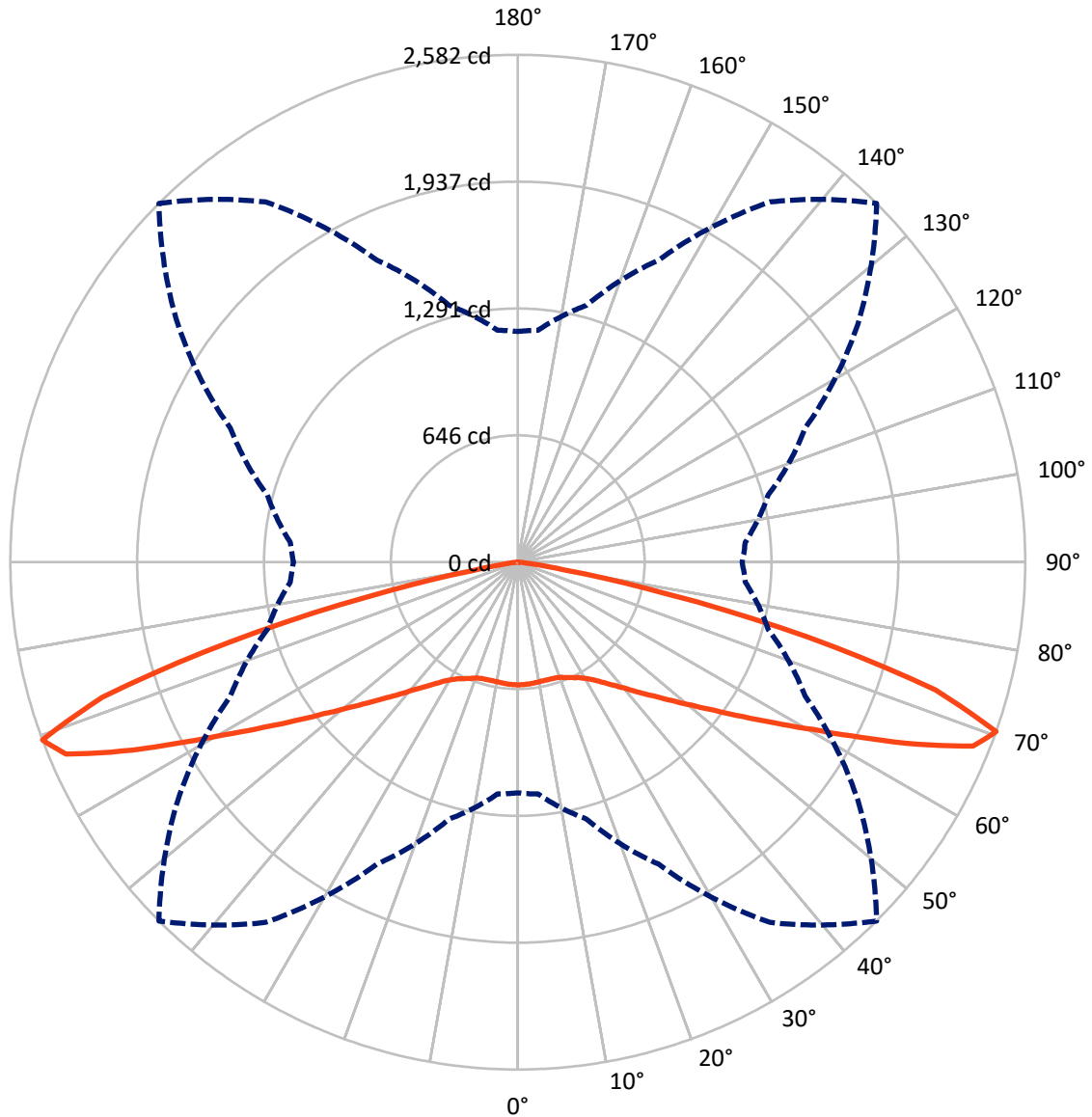
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	2812.5	0.0	2812.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2812.5	0.0	2812.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5625.0	0.0	5625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.1
10°-20°	173.8	3.1
20°-30°	297.3	5.3
30°-40°	471.8	8.4
40°-50°	761.2	13.5
50°-60°	1238.5	22.0
60°-70°	1795.4	31.9
70°-80°	796.4	14.2
80°-90°	31.4	0.6
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°	5625.0	100.0
0°-180°	5625.0	100.0

Coefficient of Utilization



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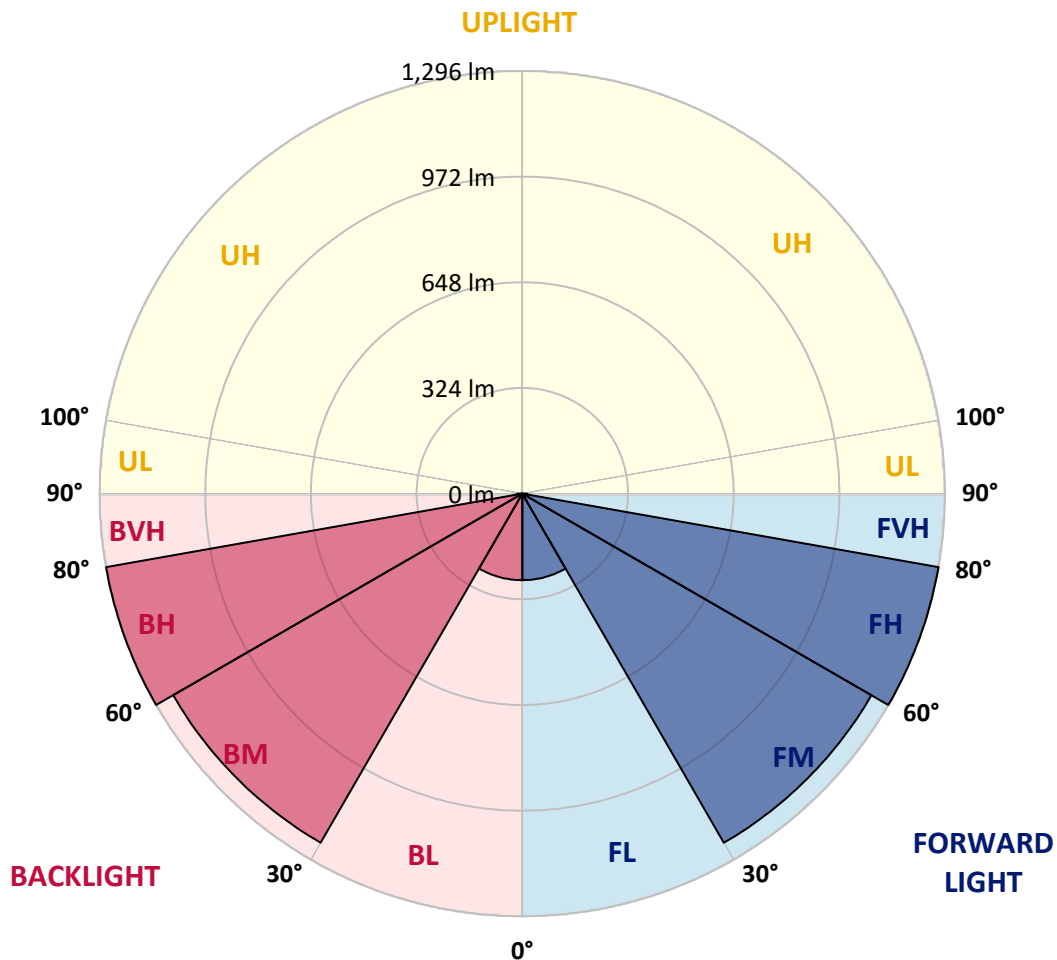
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.2	4.7			
FM (30°-60°)	1235.8	22.0			
FH (60°-80°)	1295.9	23.0			G1/1800
FVH (80°-90°)	15.7	0.3			G1/100
BL (0°-30°)	265.2	4.7	B1/500		
BM (30°-60°)	1235.8	22.0	B2/2500		
BH (60°-80°)	1295.9	23.0	B3/2500		G1/1800
BVH (80°-90°)	15.7	0.3			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°	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6
2.5°	624.6	625.2	624.3	623.7	623.4	623.4	623.1	623.4	625.2	625.5	624.6
5°	622.9	623.4	623.1	622.6	622.3	622.3	622.0	621.7	623.1	623.7	623.4
7.5°	620.5	620.8	620.5	620.2	620.5	620.2	619.3	618.7	619.9	619.9	619.6
10°	616.3	616.9	616.6	616.9	617.5	617.5	616.3	615.1	615.4	614.8	614.8
12.5°	611.3	612.2	612.5	613.7	615.1	616.9	614.3	611.6	611.0	610.7	610.4
15°	608.0	608.9	610.1	611.3	614.0	617.8	614.0	609.8	608.6	607.4	606.8
17.5°	607.1	608.3	610.1	611.9	615.4	619.3	616.0	611.9	608.9	607.1	606.5
20°	609.5	610.4	613.1	616.3	621.4	625.2	622.0	617.5	613.1	610.4	609.5
22.5°	614.3	615.7	619.0	624.9	632.0	637.7	633.2	625.8	618.7	615.1	614.0
25°	624.6	625.8	629.7	637.7	646.0	651.3	646.6	638.0	628.2	623.4	622.0
27.5°	640.3	642.1	646.3	655.8	662.6	665.5	662.3	656.4	649.2	644.2	643.0
30°	662.6	664.7	670.9	681.0	685.4	687.2	685.7	681.8	676.8	671.5	670.3
32.5°	692.5	693.7	700.8	710.3	714.5	715.0	713.3	711.5	703.2	694.3	693.7
35°	726.0	728.1	736.7	748.0	751.8	752.1	748.5	745.9	736.1	729.0	729.0
37.5°	770.5	771.4	779.7	792.4	796.6	795.4	793.6	791.2	780.9	771.7	772.0
40°	822.7	824.4	831.6	846.4	846.4	844.9	846.1	844.3	833.9	825.0	825.3
42.5°	884.6	885.5	894.1	909.8	908.6	905.7	906.9	904.5	898.0	887.9	884.3
45°	950.7	954.3	969.1	984.2	981.9	972.4	977.1	976.5	970.6	955.5	956.4
47.5°	1030.5	1036.4	1050.6	1068.7	1066.1	1051.2	1056.6	1060.1	1051.8	1035.2	1032.3
50°	1120.3	1124.2	1145.2	1162.1	1159.7	1144.0	1156.2	1156.8	1136.0	1112.6	1112.6
52.5°	1216.1	1219.9	1248.4	1274.8	1276.2	1253.4	1263.2	1262.6	1228.8	1198.0	1192.0
55°	1323.4	1325.2	1361.9	1400.7	1409.0	1386.8	1388.0	1376.1	1332.3	1296.4	1293.1
57.5°	1434.2	1440.8	1481.4	1531.8	1556.4	1542.7	1536.5	1504.8	1462.4	1421.2	1419.1
60°	1557.0	1557.3	1610.0	1669.6	1719.4	1728.6	1703.1	1660.7	1605.9	1551.3	1549.0
62.5°	1642.1	1654.8	1721.5	1822.3	1911.5	1963.1	1895.8	1806.9	1699.0	1610.9	1602.0
65°	1659.6	1668.1	1769.8	1940.6	2122.9	2234.1	2078.4	1889.3	1705.2	1587.8	1581.9
67.5°	1518.1	1527.3	1664.3	1926.4	2271.1	2499.1	2197.0	1849.6	1599.7	1454.4	1442.8
70°	1174.3	1184.6	1353.9	1695.7	2238.2	2582.4	2112.5	1613.3	1319.2	1162.4	1141.4
72.5°	624.3	662.6	807.2	1163.9	1816.7	2223.4	1732.2	1177.2	850.8	695.5	667.6
75°	228.0	232.7	313.4	516.1	1056.9	1524.7	1097.5	561.5	322.8	249.3	236.6
77.5°	94.3	94.0	103.2	155.9	383.9	780.9	428.4	164.8	102.9	95.2	94.0
80°	55.7	55.7	61.4	64.9	101.1	235.7	112.9	73.5	61.7	56.3	57.2
82.5°	24.9	26.4	38.8	40.9	48.9	64.6	54.5	46.8	40.3	27.9	25.2
85°	13.6	11.9	20.5	21.3	23.4	24.0	25.8	25.5	23.4	13.6	13.9
87.5°	2.7	3.3	5.9	4.4	5.0	4.4	5.9	8.3	8.6	4.7	3.9
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)