

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: P458600

Luminaire Tested: **GALN-SA1D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458600
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-SA1D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7648 lumens
Efficiency: N/A
Efficacy: 117.7 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

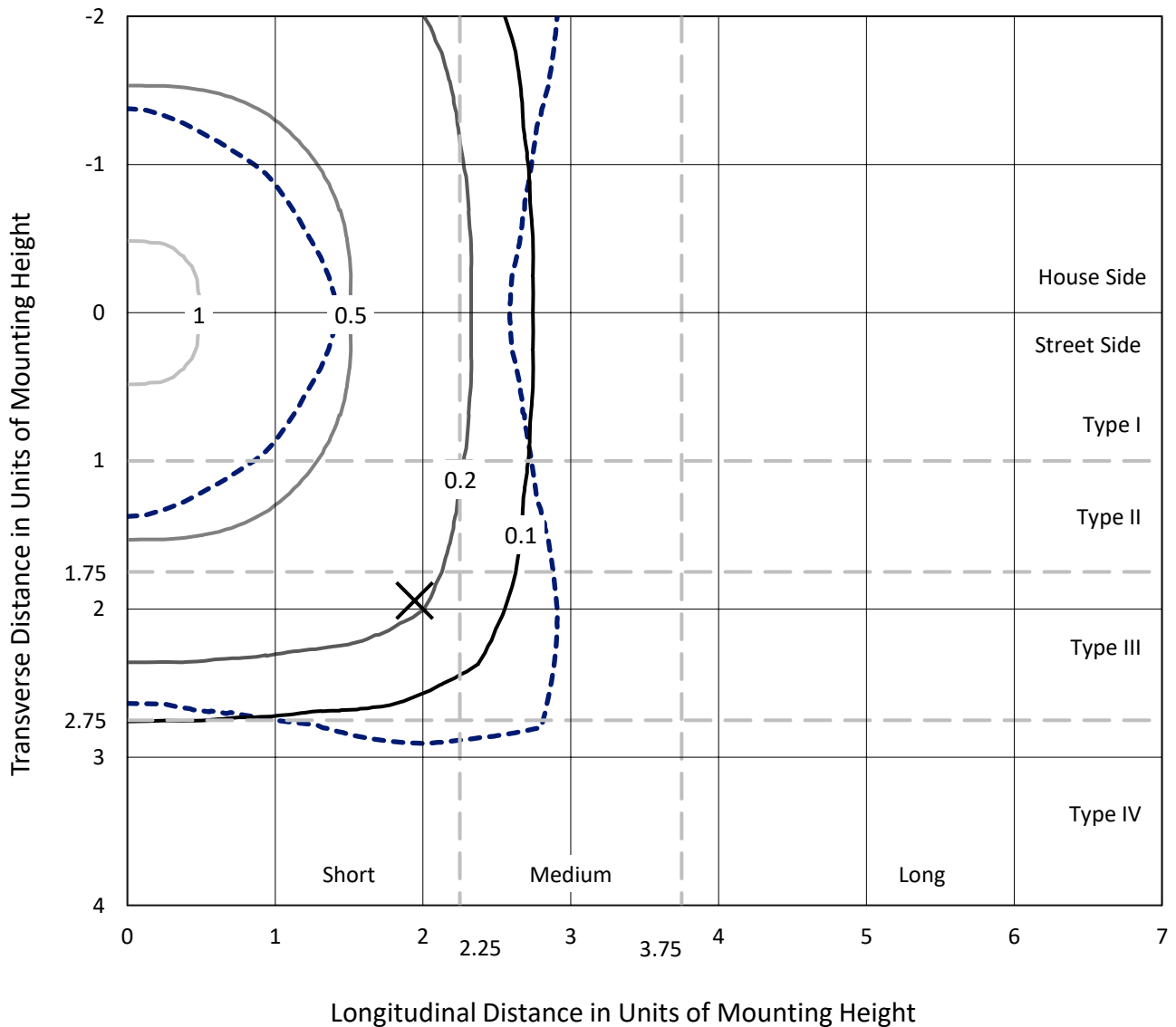
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

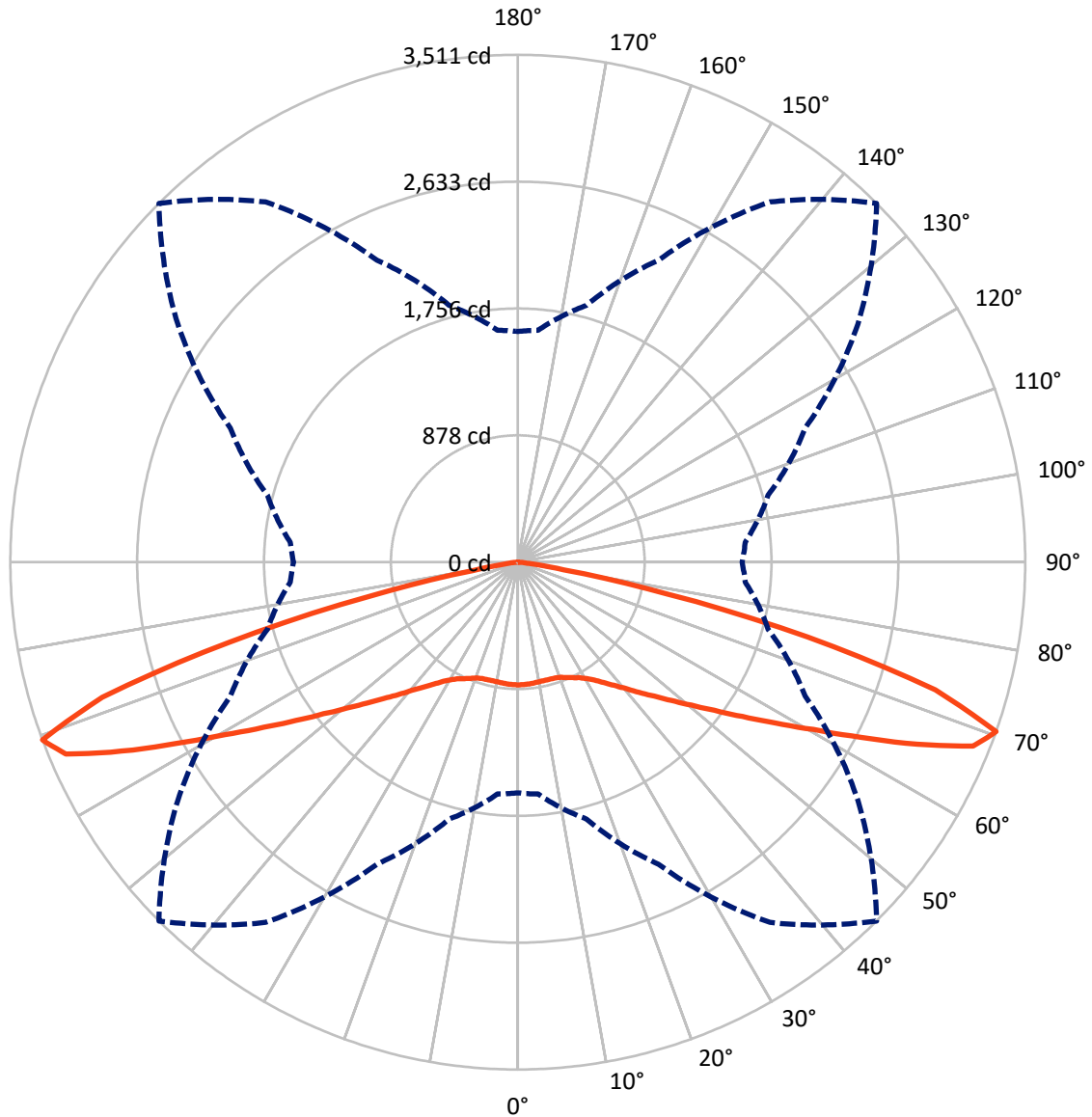
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	3824.0	0.0	3824.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3824.0	0.0	3824.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7648.0	0.0	7648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.1
10°-20°	236.3	3.1
20°-30°	404.2	5.3
30°-40°	641.5	8.4
40°-50°	1035.0	13.5
50°-60°	1683.9	22.0
60°-70°	2441.1	31.9
70°-80°	1082.8	14.2
80°-90°	42.7	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°	7648.0	100.0
0°-180°	7648.0	100.0

Coefficient of Utilization



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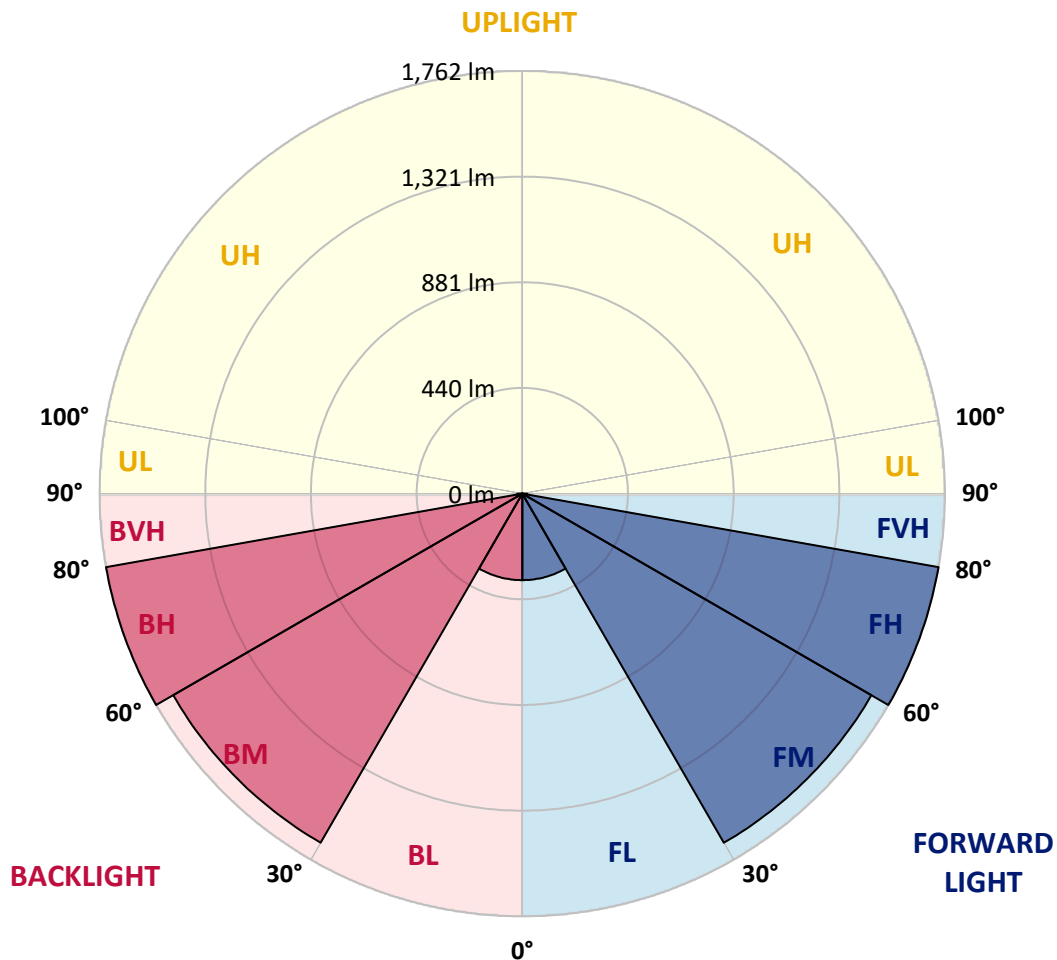
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.5	4.7			
FM (30°-60°)	1680.2	22.0			
FH (60°-80°)	1761.9	23.0			G1/1800
FVH (80°-90°)	21.4	0.3			G1/100
BL (0°-30°)	360.5	4.7	B1/500		
BM (30°-60°)	1680.2	22.0	B2/2500		
BH (60°-80°)	1761.9	23.0	B3/2500		G1/1800
BVH (80°-90°)	21.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	849.3	850.1	848.9	848.1	847.7	847.7	847.3	847.7	850.1	850.5	849.3
5°	846.9	847.7	847.3	846.5	846.0	846.0	845.6	845.2	847.3	848.1	847.7
7.5°	843.6	844.0	843.6	843.2	843.6	843.2	842.0	841.2	842.8	842.8	842.4
10°	838.0	838.8	838.4	838.8	839.6	839.6	838.0	836.4	836.8	836.0	836.0
12.5°	831.1	832.3	832.7	834.4	836.4	838.8	835.2	831.5	830.7	830.3	829.9
15°	826.7	827.9	829.5	831.1	834.8	840.0	834.8	829.1	827.5	825.9	825.1
17.5°	825.5	827.1	829.5	831.9	836.8	842.0	837.6	831.9	827.9	825.5	824.7
20°	828.7	829.9	833.6	838.0	844.8	850.1	845.6	839.6	833.6	829.9	828.7
22.5°	835.2	837.2	841.6	849.7	859.4	867.0	861.0	850.9	841.2	836.4	834.8
25°	849.3	850.9	856.1	867.0	878.3	885.6	879.1	867.4	854.1	847.7	845.6
27.5°	870.6	873.1	878.7	891.6	900.9	904.9	900.5	892.4	882.7	875.9	874.3
30°	900.9	903.7	912.2	925.9	931.9	934.3	932.3	927.1	920.2	913.0	911.3
32.5°	941.6	943.2	952.9	965.8	971.4	972.2	969.8	967.4	956.1	944.0	943.2
35°	987.1	989.9	1001.6	1017.0	1022.2	1022.6	1017.8	1014.1	1000.8	991.2	991.2
37.5°	1047.6	1048.8	1060.1	1077.4	1083.1	1081.4	1079.0	1075.8	1061.7	1049.2	1049.6
40°	1118.5	1120.9	1130.6	1150.8	1150.8	1148.8	1150.4	1148.0	1133.8	1121.8	1122.2
42.5°	1202.8	1204.0	1215.7	1237.0	1235.4	1231.4	1233.0	1229.8	1220.9	1207.2	1202.4
45°	1292.7	1297.5	1317.6	1338.2	1335.0	1322.1	1328.5	1327.7	1319.7	1299.1	1300.3
47.5°	1401.1	1409.1	1428.5	1453.1	1449.4	1429.3	1436.6	1441.4	1430.1	1407.5	1403.5
50°	1523.2	1528.5	1557.1	1580.0	1576.8	1555.5	1572.0	1572.8	1544.6	1512.7	1512.7
52.5°	1653.4	1658.6	1697.3	1733.2	1735.2	1704.2	1717.5	1716.7	1670.7	1628.8	1620.8
55°	1799.3	1801.7	1851.7	1904.5	1915.8	1885.6	1887.2	1871.1	1811.4	1762.6	1758.2
57.5°	1950.1	1958.9	2014.2	2082.7	2116.1	2097.6	2089.1	2046.0	1988.4	1932.3	1929.5
60°	2116.9	2117.3	2189.1	2270.1	2337.8	2350.3	2315.7	2258.0	2183.4	2109.3	2106.1
62.5°	2232.6	2250.0	2340.6	2477.7	2599.0	2669.1	2577.7	2456.7	2310.0	2190.3	2178.2
65°	2256.4	2268.1	2406.3	2638.5	2886.4	3037.6	2825.9	2568.8	2318.5	2158.9	2150.8
67.5°	2064.1	2076.6	2262.9	2619.2	3087.9	3397.9	2987.2	2514.8	2175.0	1977.5	1961.8
70°	1596.6	1610.7	1840.8	2305.6	3043.2	3511.2	2872.3	2193.5	1793.7	1580.4	1551.8
72.5°	848.9	900.9	1097.6	1582.5	2470.0	3023.0	2355.2	1600.6	1156.8	945.6	907.7
75°	310.0	316.4	426.0	701.7	1437.0	2073.0	1492.2	763.4	438.9	339.0	321.7
77.5°	128.2	127.8	140.3	212.0	522.0	1061.7	582.4	224.1	139.9	129.4	127.8
80°	75.8	75.8	83.4	88.3	137.4	320.4	153.6	100.0	83.8	76.6	77.8
82.5°	33.9	35.9	52.8	55.6	66.5	87.9	74.2	63.7	54.8	37.9	34.3
85°	18.5	16.1	27.8	29.0	31.8	32.6	35.1	34.7	31.8	18.5	18.9
87.5°	3.6	4.4	8.1	6.0	6.9	6.0	8.1	11.3	11.7	6.4	5.2
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)