

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: P450799

Luminaire Tested: **GALN-SA1C-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450799
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-SA1C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5485 lumens
Efficiency: N/A
Efficacy: 96.2 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

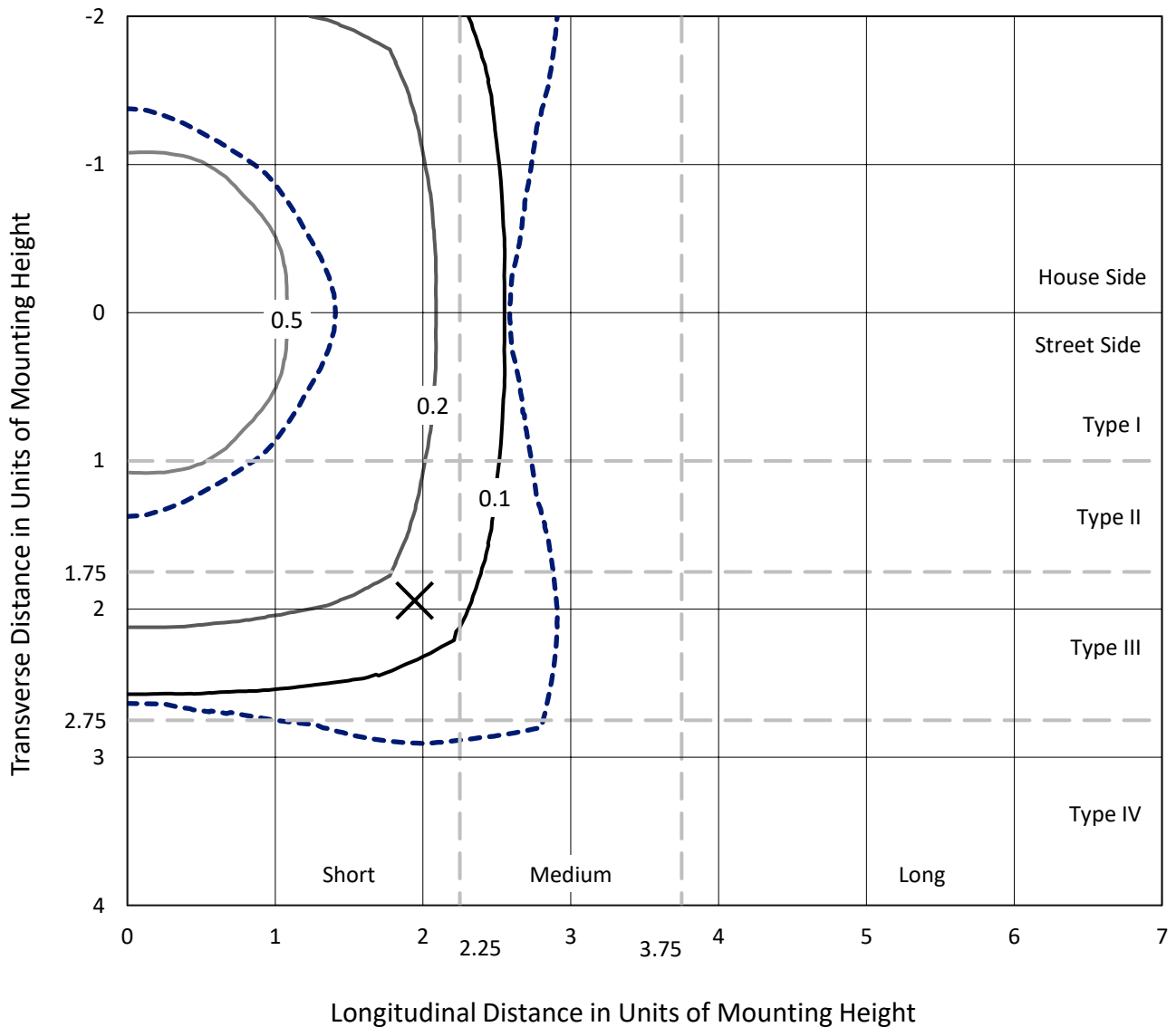
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

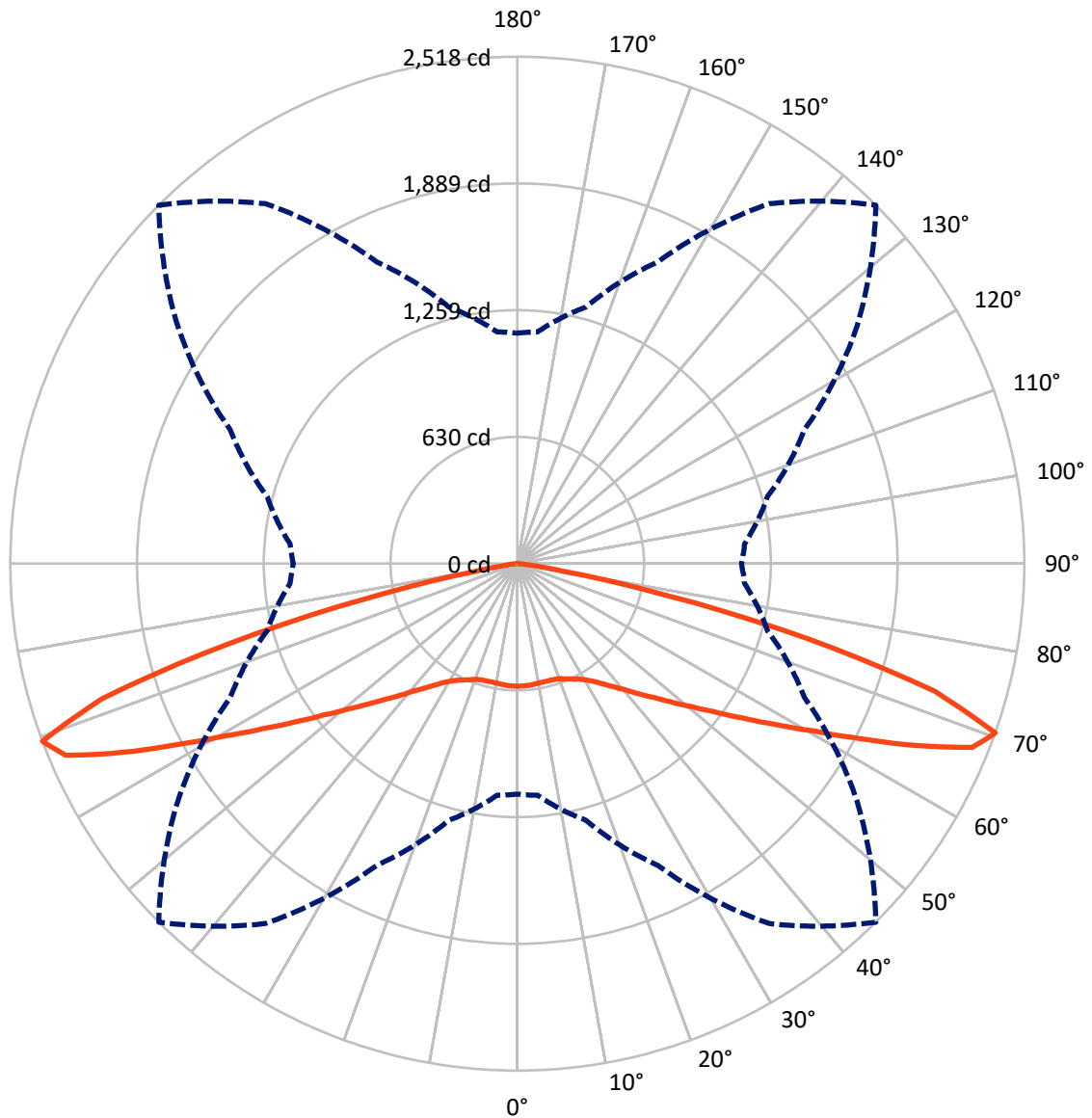
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2742.5	0.0	2742.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2742.5	0.0	2742.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5485.0	0.0	5485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.1
10°-20°	169.5	3.1
20°-30°	289.9	5.3
30°-40°	460.1	8.4
40°-50°	742.3	13.5
50°-60°	1207.7	22.0
60°-70°	1750.7	31.9
70°-80°	776.5	14.2
80°-90°	30.6	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°	5485.0	100.0
0°-180°	5485.0	100.0



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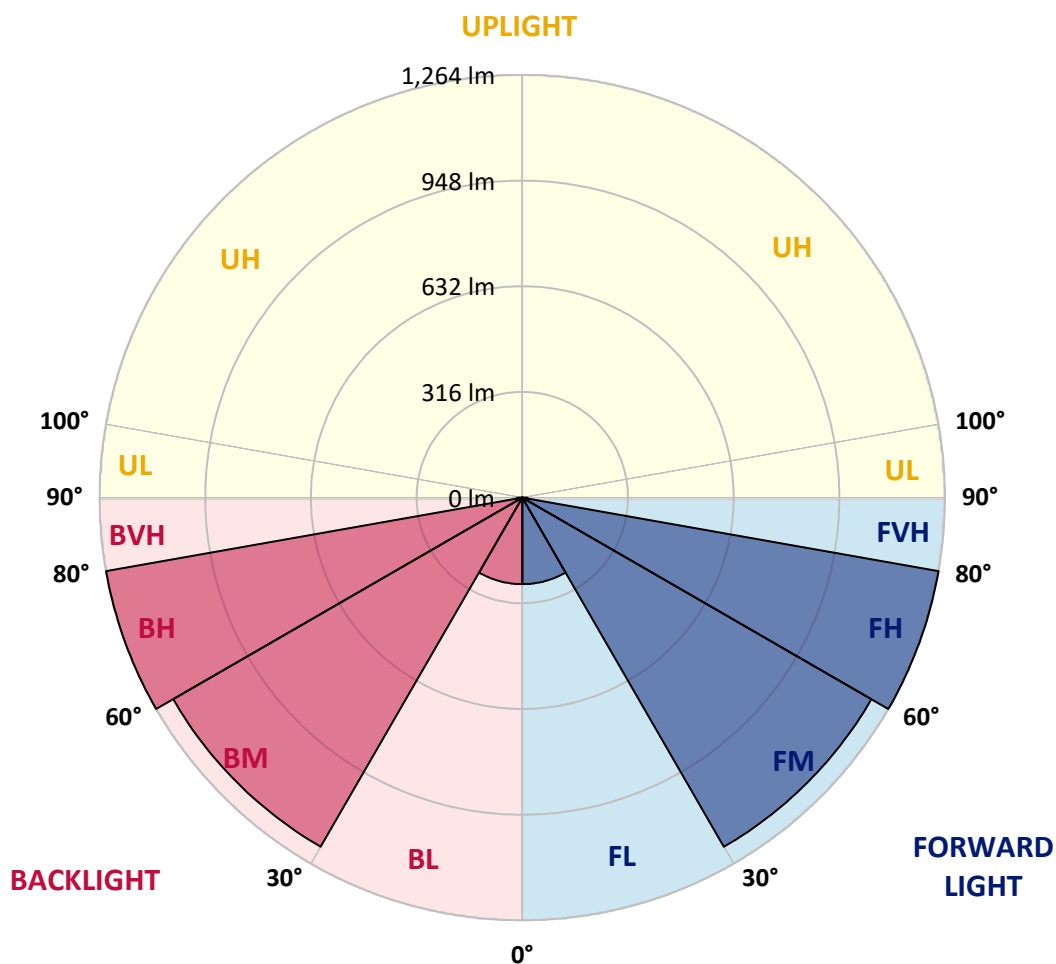
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.6	4.7			
FM (30°-60°)	1205.0	22.0			
FH (60°-80°)	1263.6	23.0			G1/1800
FVH (80°-90°)	15.3	0.3			G1/100
BL (0°-30°)	258.6	4.7	B1/500		
BM (30°-60°)	1205.0	22.0	B2/2500		
BH (60°-80°)	1263.6	23.0	B3/2500		G1/1800
BVH (80°-90°)	15.3	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°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
2.5°	609.1	609.7	608.8	608.2	607.9	607.9	607.6	607.9	609.7	610.0	609.1
5°	607.3	607.9	607.6	607.1	606.8	606.8	606.5	606.2	607.6	608.2	607.9
7.5°	605.0	605.3	605.0	604.7	605.0	604.7	603.9	603.3	604.5	604.5	604.2
10°	601.0	601.6	601.3	601.6	602.1	602.1	601.0	599.8	600.1	599.5	599.5
12.5°	596.1	596.9	597.2	598.4	599.8	601.6	599.0	596.4	595.8	595.5	595.2
15°	592.9	593.8	594.9	596.1	598.7	602.4	598.7	594.6	593.5	592.3	591.7
17.5°	592.0	593.2	594.9	596.7	600.1	603.9	600.7	596.7	593.8	592.0	591.4
20°	594.3	595.2	597.8	601.0	605.9	609.7	606.5	602.1	597.8	595.2	594.3
22.5°	599.0	600.4	603.6	609.4	616.3	621.8	617.5	610.2	603.3	599.8	598.7
25°	609.1	610.2	614.0	621.8	629.9	635.1	630.5	622.1	612.6	607.9	606.5
27.5°	624.4	626.1	630.2	639.4	646.1	649.0	645.8	640.0	633.1	628.2	627.0
30°	646.1	648.1	654.2	664.0	668.3	670.1	668.6	664.9	660.0	654.8	653.6
32.5°	675.3	676.4	683.4	692.6	696.7	697.3	695.5	693.8	685.7	677.0	676.4
35°	707.9	710.0	718.4	729.3	733.1	733.4	729.9	727.3	717.8	710.8	710.8
37.5°	751.3	752.2	760.3	772.7	776.7	775.6	773.9	771.5	761.4	752.5	752.8
40°	802.2	803.9	810.9	825.3	825.3	823.9	825.0	823.3	813.2	804.5	804.8
42.5°	862.6	863.5	871.9	887.2	886.0	883.1	884.3	882.0	875.6	865.8	862.3
45°	927.1	930.5	945.0	959.7	957.4	948.2	952.8	952.2	946.4	931.7	932.6
47.5°	1004.8	1010.6	1024.5	1042.1	1039.5	1025.1	1030.3	1033.7	1025.6	1009.5	1006.6
50°	1092.4	1096.2	1116.7	1133.2	1130.9	1115.5	1127.4	1128.0	1107.7	1084.9	1084.9
52.5°	1185.8	1189.5	1217.3	1243.0	1244.5	1222.2	1231.8	1231.2	1198.2	1168.2	1162.4
55°	1290.4	1292.2	1328.0	1365.9	1374.0	1352.3	1353.5	1341.9	1299.1	1264.1	1261.0
57.5°	1398.6	1404.9	1444.5	1493.7	1517.6	1504.4	1498.3	1467.4	1426.0	1385.8	1383.8
60°	1518.2	1518.5	1570.0	1628.1	1676.6	1685.6	1660.7	1619.4	1565.9	1512.7	1510.4
62.5°	1601.2	1613.6	1678.7	1777.0	1864.0	1914.3	1848.6	1761.9	1656.7	1570.8	1562.2
65°	1618.2	1626.6	1725.8	1892.3	2070.1	2178.5	2026.7	1842.3	1662.8	1548.3	1542.5
67.5°	1480.4	1489.3	1622.9	1878.4	2214.6	2436.9	2142.3	1803.5	1559.9	1418.2	1406.9
70°	1145.0	1155.1	1320.2	1653.5	2182.5	2518.1	2060.0	1573.2	1286.4	1133.5	1112.9
72.5°	608.8	646.1	787.2	1134.9	1771.5	2168.1	1689.1	1147.9	829.6	678.2	651.0
75°	222.3	226.9	305.6	503.3	1030.6	1486.7	1070.2	547.5	314.8	243.1	230.7
77.5°	91.9	91.6	100.6	152.1	374.4	761.4	417.7	160.7	100.3	92.8	91.6
80°	54.3	54.3	59.8	63.3	98.6	229.8	110.1	71.7	60.1	54.9	55.8
82.5°	24.3	25.7	37.9	39.9	47.7	63.0	53.2	45.7	39.3	27.2	24.6
85°	13.3	11.6	19.9	20.8	22.8	23.4	25.1	24.9	22.8	13.3	13.6
87.5°	2.6	3.2	5.8	4.3	4.9	4.3	5.8	8.1	8.4	4.6	3.8
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)