

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: P450424

Luminaire Tested: **GALN-SA1B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450424
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-SA1B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5040 lumens
Efficiency: N/A
Efficacy: 114.5 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

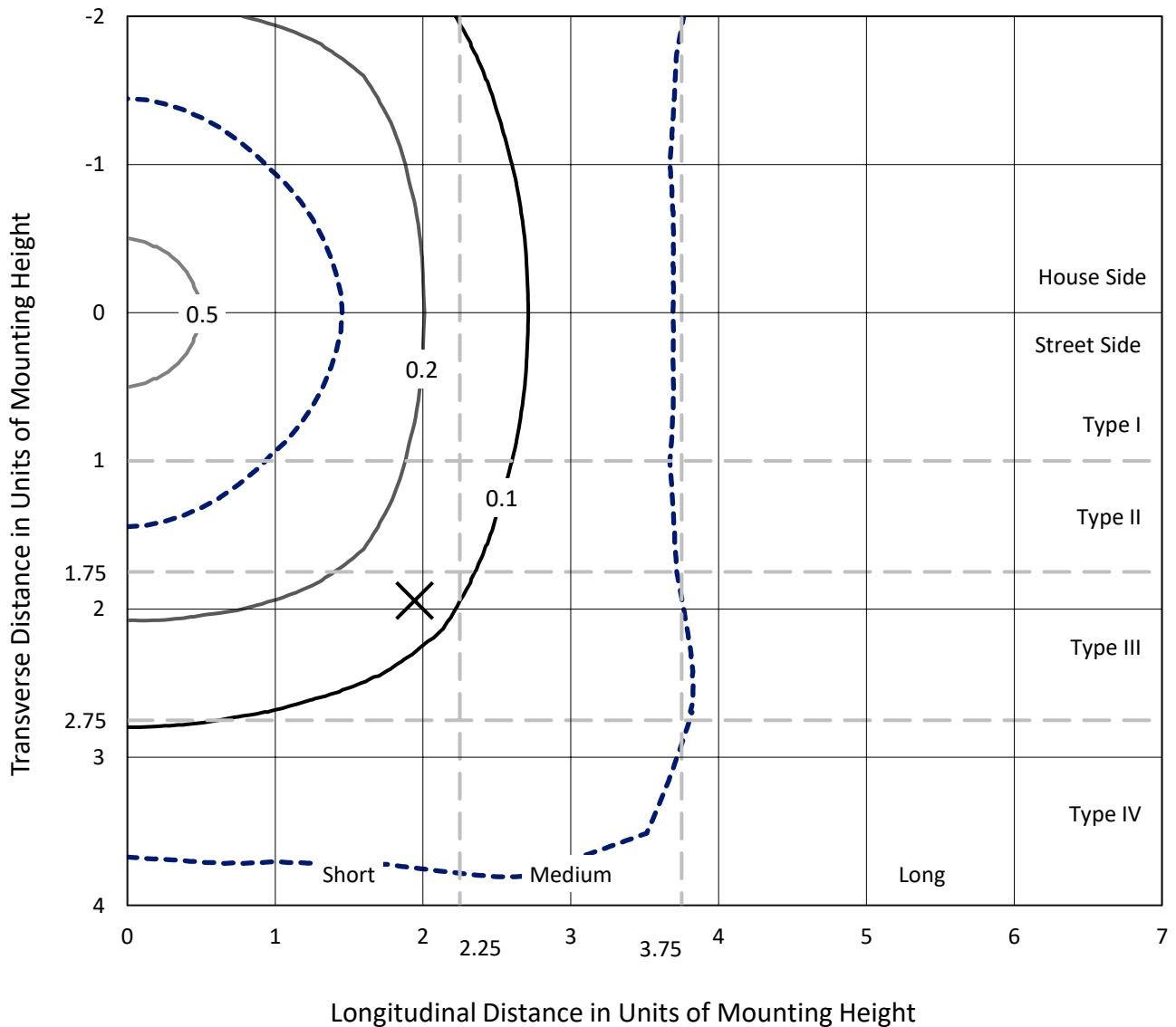
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

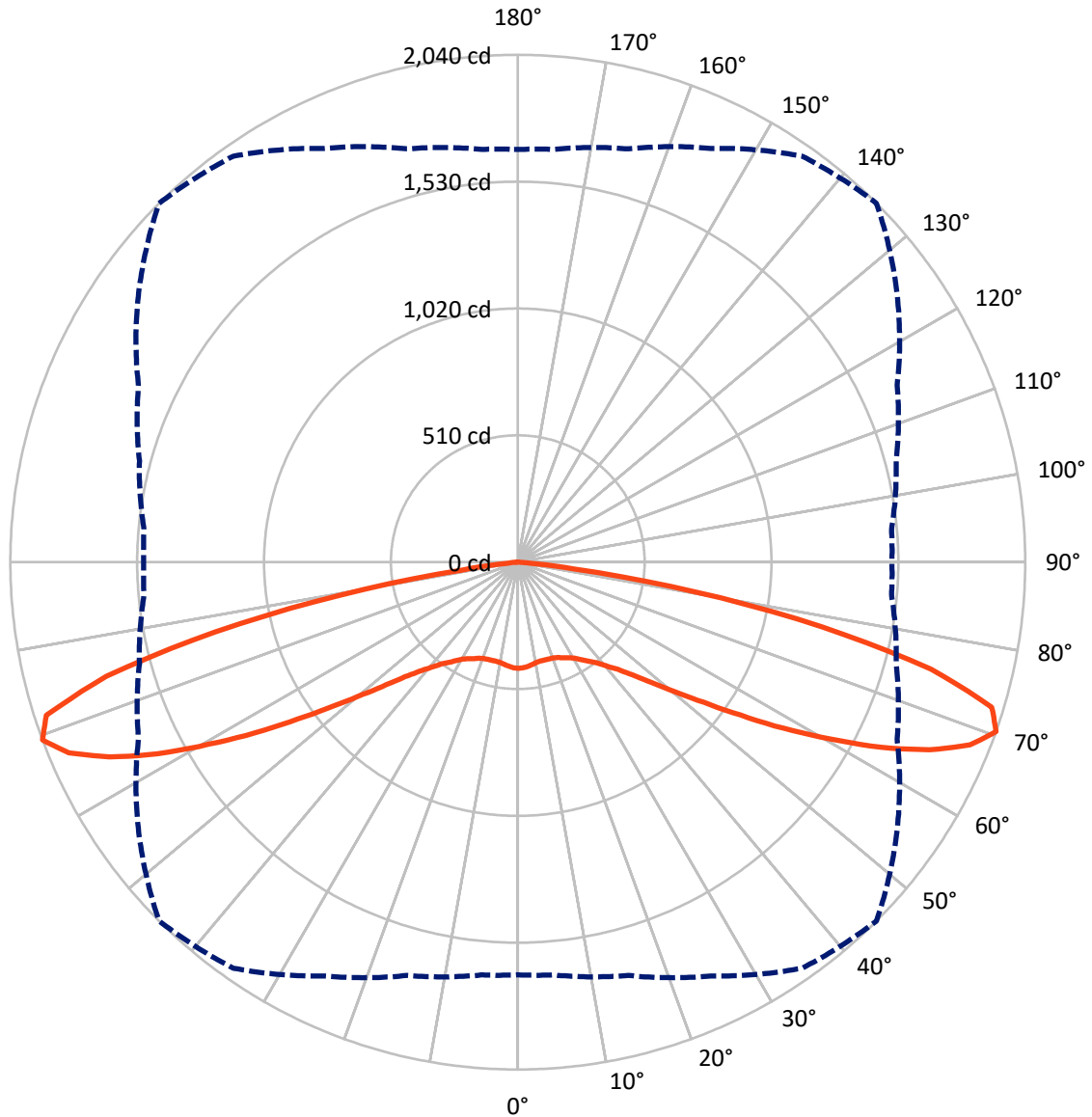
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2520.0	0.0	2520.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2520.0	0.0	2520.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5040.0	0.0	5040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	0.8
10°-20°	116.8	2.3
20°-30°	199.0	3.9
30°-40°	308.5	6.1
40°-50°	519.3	10.3
50°-60°	944.8	18.7
60°-70°	1599.5	31.7
70°-80°	1238.1	24.6
80°-90°	74.2	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°	5040.0	100.0
0°-180°	5040.0	100.0

Coefficient of Utilization



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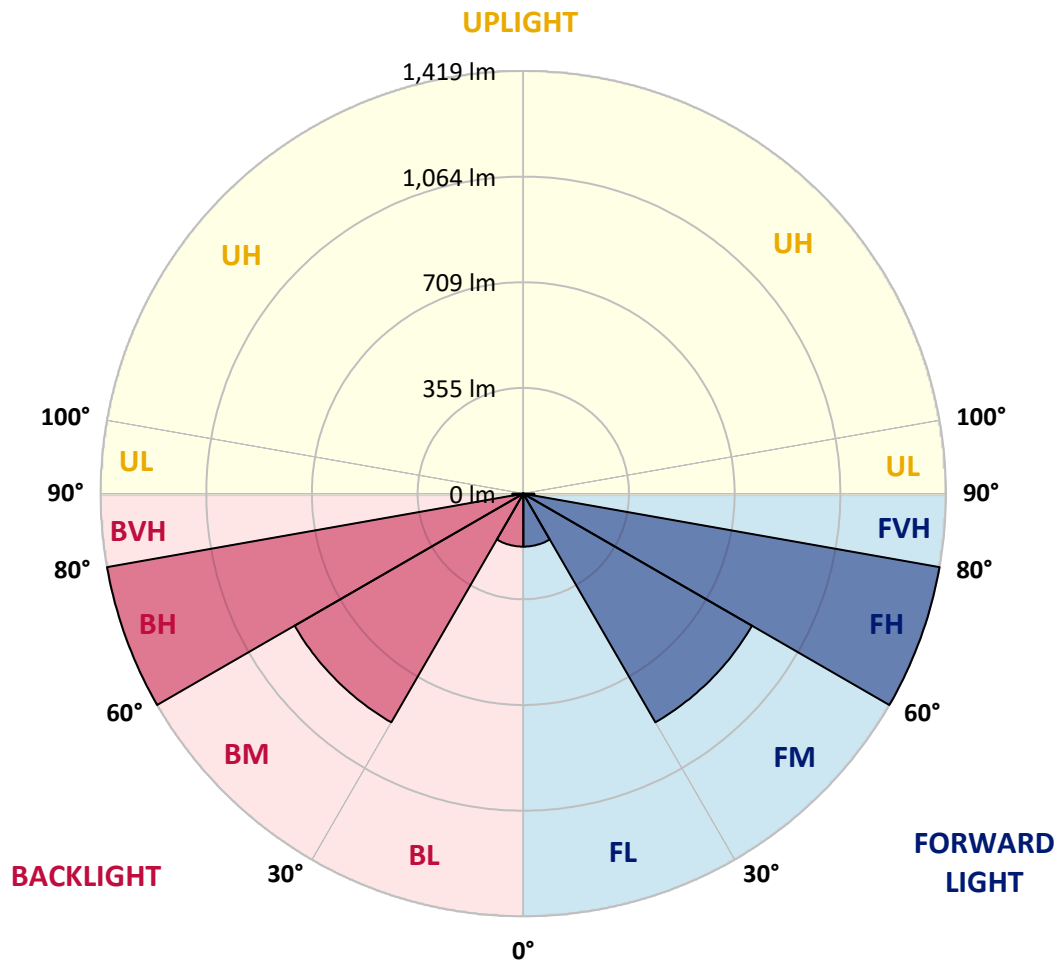
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.9	3.5			
FM (30°-60°)	886.3	17.6			
FH (60°-80°)	1418.8	28.1			G1/1800
FVH (80°-90°)	37.1	0.7			G1/100
BL (0°-30°)	177.9	3.5	B1/500		
BM (30°-60°)	886.3	17.6	B1/1000		
BH (60°-80°)	1418.8	28.1	B3/2500		G1/1800
BVH (80°-90°)	37.1	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°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7
2.5°	425.6	425.9	425.9	425.4	425.1	425.1	424.8	424.8	425.6	425.9	426.2
5°	421.9	421.9	421.9	421.6	421.1	421.1	420.6	420.6	420.8	421.6	421.1
7.5°	416.8	417.4	417.4	416.3	415.5	415.5	415.3	415.5	415.8	416.6	416.3
10°	415.3	415.5	414.2	412.3	411.0	410.2	410.5	411.0	412.3	412.9	413.1
12.5°	416.3	416.3	413.9	411.3	408.9	407.8	407.5	409.4	411.8	413.4	413.9
15°	417.6	417.1	414.2	410.7	408.3	408.1	407.8	409.1	412.6	415.8	416.1
17.5°	418.4	418.2	414.5	410.2	408.9	408.9	408.6	409.7	413.4	417.4	417.6
20°	421.1	420.3	416.1	411.5	410.5	411.0	410.2	411.5	415.5	420.3	421.4
22.5°	426.4	425.6	421.4	416.8	416.3	416.3	416.1	417.4	421.6	426.7	427.5
25°	432.8	432.0	428.0	424.8	425.4	426.4	425.9	426.2	429.6	433.9	435.2
27.5°	441.3	440.0	436.5	433.9	435.5	435.5	435.5	435.2	437.3	441.3	442.7
30°	451.7	451.2	447.5	447.2	448.5	447.2	447.2	447.5	447.7	451.5	452.8
32.5°	465.3	464.2	462.4	461.8	465.6	466.6	462.9	459.4	461.3	465.0	465.8
35°	487.7	486.1	483.4	480.5	483.4	488.5	480.5	477.8	482.6	487.7	488.2
37.5°	518.0	517.2	512.9	507.6	507.4	512.7	504.4	504.2	513.2	519.3	520.1
40°	556.1	556.9	551.5	546.5	543.8	548.1	541.7	544.1	552.9	559.8	559.3
42.5°	609.6	606.6	598.4	593.6	590.7	589.1	587.5	591.2	601.1	608.5	614.4
45°	672.1	671.1	660.7	654.8	648.4	646.0	645.5	652.2	664.1	673.2	674.0
47.5°	742.9	740.5	733.9	727.8	725.4	722.4	719.8	724.8	736.8	743.2	745.1
50°	815.9	816.4	816.4	815.3	817.7	818.3	811.1	812.9	819.6	819.1	818.5
52.5°	899.2	902.1	915.9	917.3	928.7	936.4	923.4	915.7	913.3	898.9	900.0
55°	997.1	999.8	1020.6	1041.3	1072.2	1085.2	1057.8	1033.9	1016.8	995.0	996.1
57.5°	1119.3	1120.6	1140.3	1180.3	1229.3	1259.9	1211.7	1164.3	1129.7	1108.9	1100.7
60°	1250.8	1252.1	1280.9	1329.6	1405.7	1443.0	1383.4	1305.9	1262.3	1230.6	1232.7
62.5°	1408.7	1414.0	1439.8	1506.9	1599.3	1641.0	1562.0	1458.4	1399.3	1359.9	1361.5
65°	1577.7	1586.7	1615.0	1688.7	1773.9	1818.9	1722.0	1602.4	1529.0	1480.8	1485.9
67.5°	1687.4	1695.3	1736.1	1817.5	1923.7	1961.0	1835.9	1696.7	1604.8	1547.3	1536.7
70°	1659.4	1666.1	1720.4	1835.9	1993.2	2040.3	1863.0	1682.8	1574.8	1508.5	1504.2
72.5°	1464.8	1451.0	1530.3	1696.1	1913.9	1992.9	1777.6	1537.0	1400.9	1332.8	1324.8
75°	970.8	1000.9	1118.0	1313.4	1619.2	1717.2	1517.3	1234.0	1062.9	1006.2	997.4
77.5°	324.5	347.6	451.7	744.5	1103.9	1251.1	1105.5	807.1	571.0	460.0	462.1
80°	86.0	84.9	109.9	204.7	477.0	724.6	555.3	273.4	149.6	108.3	102.7
82.5°	30.9	34.6	44.5	56.7	126.4	225.2	158.9	76.7	56.2	41.5	40.2
85°	13.6	13.3	19.2	22.6	31.7	42.1	37.3	32.5	28.5	18.9	17.6
87.5°	2.9	2.9	4.5	3.5	5.6	5.6	6.9	8.3	8.5	5.6	4.5
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)