

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: P458078

Luminaire Tested: **GALN-SA9C-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458078
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-SA9C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55904 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

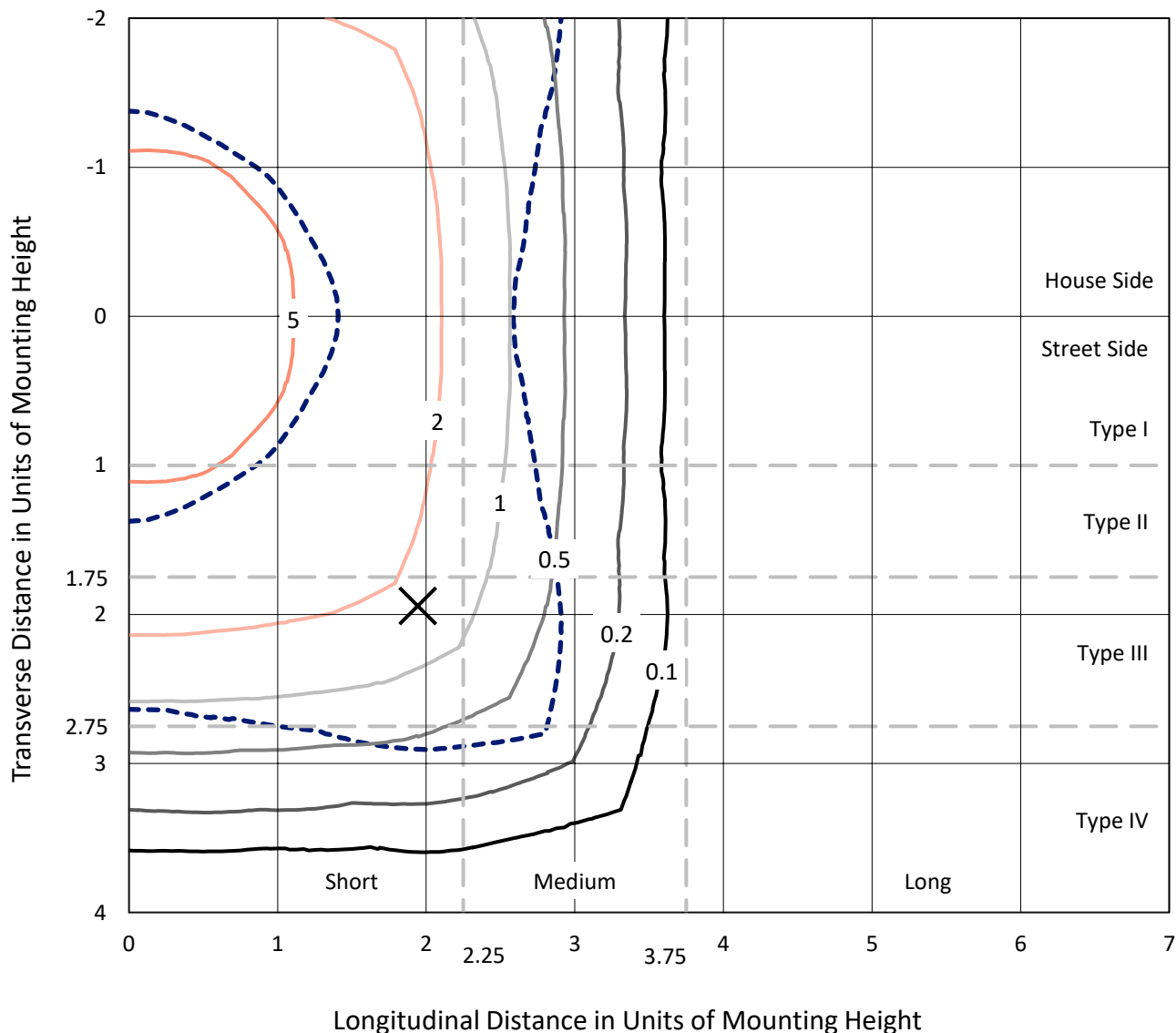
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

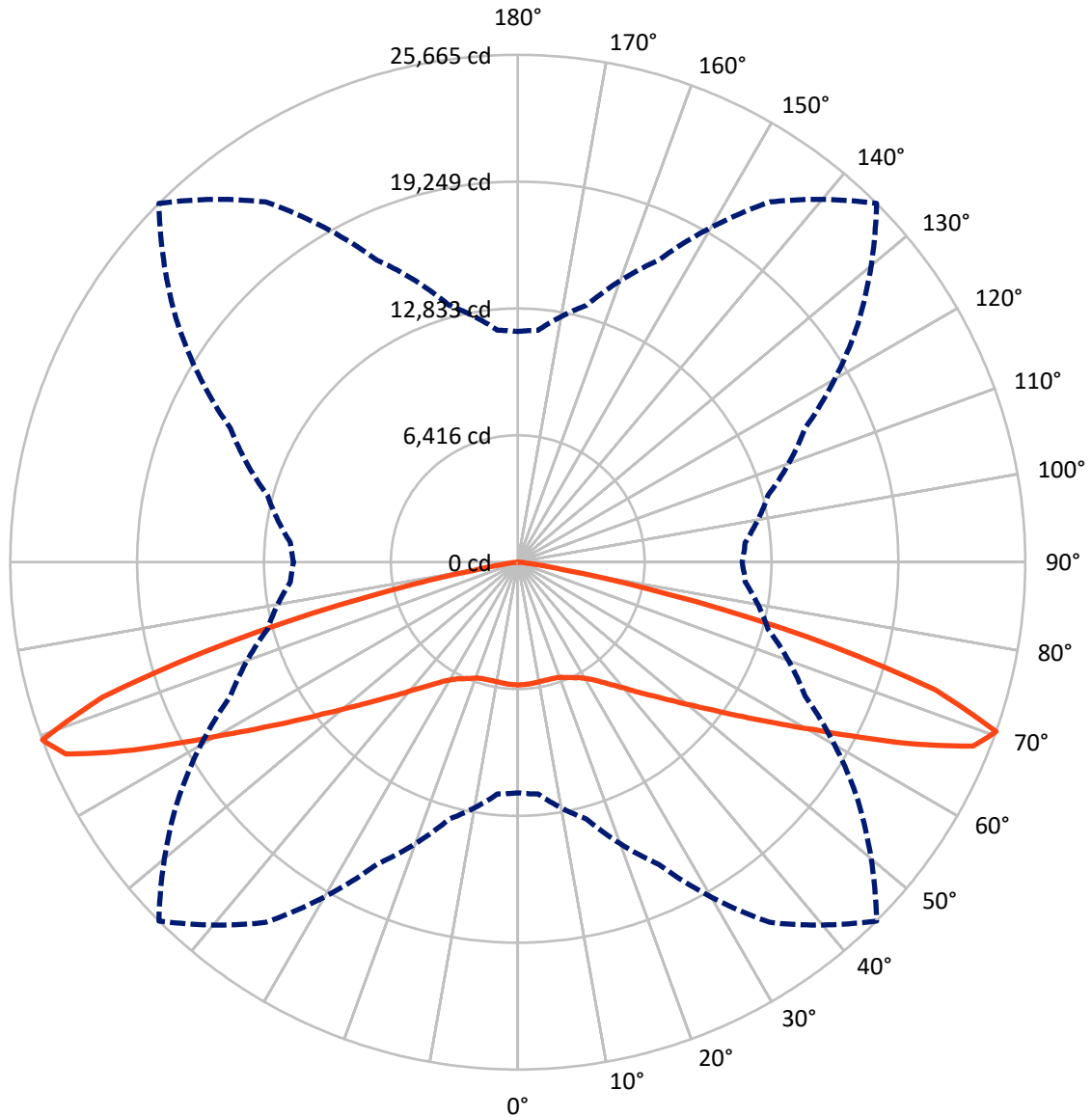
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	27952.0	0.0	27952.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27952.0	0.0	27952.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55904.0	0.0	55904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.7	1.1
10°-20°	1727.5	3.1
20°-30°	2954.5	5.3
30°-40°	4689.4	8.4
40°-50°	7565.2	13.5
50°-60°	12308.7	22.0
60°-70°	17843.3	31.9
70°-80°	7914.6	14.2
80°-90°	312.2	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°	55904.0	100.0
0°-180°	55904.0	100.0

Coefficient of Utilization



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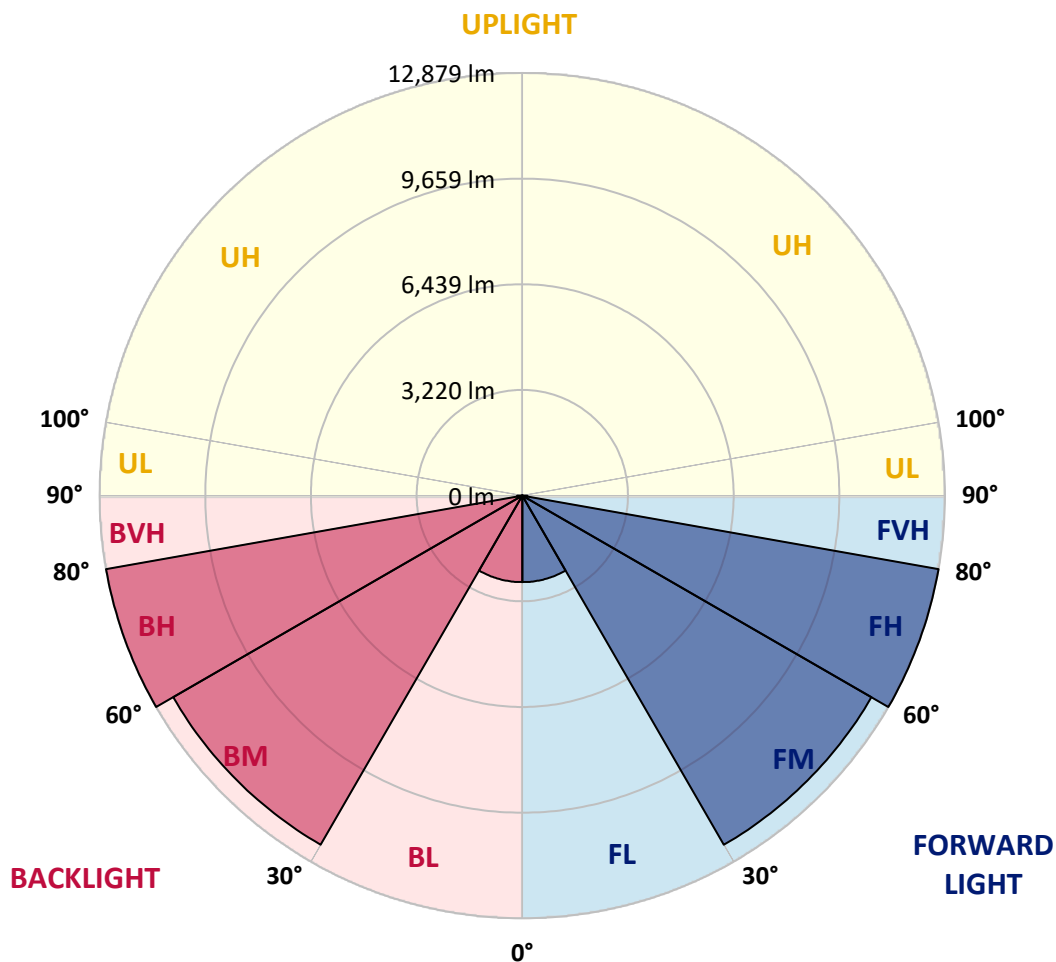
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2635.3	4.7			
FM	(30°-60°)	12281.7	22.0			
FH	(60°-80°)	12878.9	23.0			G5
FVH	(80°-90°)	156.1	0.3			G2/225
BL	(0°-30°)	2635.3	4.7	B4/5000		
BM	(30°-60°)	12281.7	22.0	B5		
BH	(60°-80°)	12878.9	23.0	B5		G5
BVH	(80°-90°)	156.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6207.9	6207.9	6207.9	6207.9	6207.9	6207.9	6207.9	6207.9	6207.9	6207.9	6207.9
2.5°	6207.9	6213.8	6204.9	6199.0	6196.1	6196.1	6193.1	6196.1	6213.8	6216.7	6207.9
5°	6190.2	6196.1	6193.1	6187.3	6184.3	6184.3	6181.4	6178.4	6193.1	6199.0	6196.1
7.5°	6166.6	6169.6	6166.6	6163.7	6166.6	6163.7	6154.8	6148.9	6160.7	6160.7	6157.8
10°	6125.4	6131.3	6128.3	6131.3	6137.2	6137.2	6125.4	6113.6	6116.5	6110.6	6110.6
12.5°	6075.3	6084.1	6087.1	6098.9	6113.6	6131.3	6104.8	6078.2	6072.3	6069.4	6066.5
15°	6042.9	6051.7	6063.5	6075.3	6101.8	6140.1	6101.8	6060.6	6048.8	6037.0	6031.1
17.5°	6034.0	6045.8	6063.5	6081.2	6116.5	6154.8	6122.4	6081.2	6051.7	6034.0	6028.2
20°	6057.6	6066.5	6093.0	6125.4	6175.5	6213.8	6181.4	6137.2	6093.0	6066.5	6057.6
22.5°	6104.8	6119.5	6151.9	6210.8	6281.5	6337.5	6293.3	6219.7	6148.9	6113.6	6101.8
25°	6207.9	6219.7	6258.0	6337.5	6420.0	6473.0	6425.9	6340.5	6243.2	6196.1	6181.4
27.5°	6364.0	6381.7	6423.0	6517.2	6585.0	6614.5	6582.1	6523.1	6452.4	6402.3	6390.5
30°	6585.0	6605.6	6667.5	6767.7	6811.9	6829.5	6814.8	6776.5	6726.4	6673.4	6661.6
32.5°	6882.6	6894.4	6965.1	7059.4	7100.6	7106.5	7088.8	7071.1	6988.6	6900.3	6894.4
35°	7215.5	7236.1	7321.6	7433.5	7471.8	7474.8	7439.4	7412.9	7315.7	7245.0	7245.0
37.5°	7657.5	7666.3	7748.8	7875.5	7916.7	7905.0	7887.3	7863.7	7760.6	7669.2	7672.2
40°	8176.0	8193.7	8264.4	8411.7	8411.7	8397.0	8408.8	8391.1	8288.0	8199.6	8202.5
42.5°	8791.8	8800.6	8886.1	9042.2	9030.4	9001.0	9012.8	8989.2	8924.4	8824.2	8788.8
45°	9448.8	9484.2	9631.5	9781.8	9758.2	9663.9	9711.0	9705.1	9646.2	9496.0	9504.8
47.5°	10241.4	10300.3	10441.7	10621.4	10594.9	10447.6	10500.6	10536.0	10453.5	10288.5	10259.1
50°	11134.1	11172.4	11381.6	11549.5	11526.0	11369.8	11490.6	11496.5	11290.3	11057.5	11057.5
52.5°	12085.8	12124.1	12406.9	12669.1	12683.9	12457.0	12554.2	12548.3	12212.5	11906.0	11847.1
55°	13152.3	13170.0	13535.3	13921.3	14003.8	13782.8	13794.6	13676.8	13240.7	12884.2	12851.8
57.5°	14254.2	14319.1	14722.7	15223.6	15468.1	15332.6	15270.7	14955.5	14534.1	14124.6	14104.0
60°	15474.0	15477.0	16001.4	16593.6	17088.6	17179.9	16926.6	16505.2	15960.2	15418.0	15394.5
62.5°	16319.6	16446.3	17109.2	18111.0	18997.8	19510.5	18841.7	17957.8	16885.3	16010.3	15921.9
65°	16493.4	16578.9	17589.5	19286.5	21098.5	22203.4	20656.6	18776.8	16947.2	15780.4	15721.5
67.5°	15088.1	15179.4	16540.6	19145.1	22571.7	24837.4	21835.1	18382.0	15898.3	14454.6	14339.7
70°	11670.3	11773.5	13455.8	16852.9	22244.6	25665.3	20995.4	16033.8	13111.1	11552.5	11343.3
72.5°	6204.9	6585.0	8022.8	11567.2	18055.0	22097.3	17215.3	11699.8	8455.9	6912.0	6635.1
75°	2265.7	2312.9	3114.2	5129.5	10503.6	15152.9	10907.2	5580.3	3208.5	2477.8	2351.2
77.5°	936.9	934.0	1025.3	1549.8	3815.5	7760.6	4257.4	1638.1	1022.4	945.8	934.0
80°	553.9	553.9	609.9	645.2	1004.7	2342.3	1122.5	730.7	612.8	559.8	568.6
82.5°	247.5	262.2	386.0	406.6	486.1	642.3	542.1	465.5	400.7	277.0	250.4
85°	135.5	117.9	203.3	212.1	232.8	238.7	256.3	253.4	232.8	135.5	138.5
87.5°	26.5	32.4	58.9	44.2	50.1	44.2	58.9	82.5	85.4	47.1	38.3
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)