

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: P459501

Luminaire Tested: **GALN-SA9C-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459501
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-SA9C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62139 lumens
Efficiency: N/A
Efficacy: 129.2 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 (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

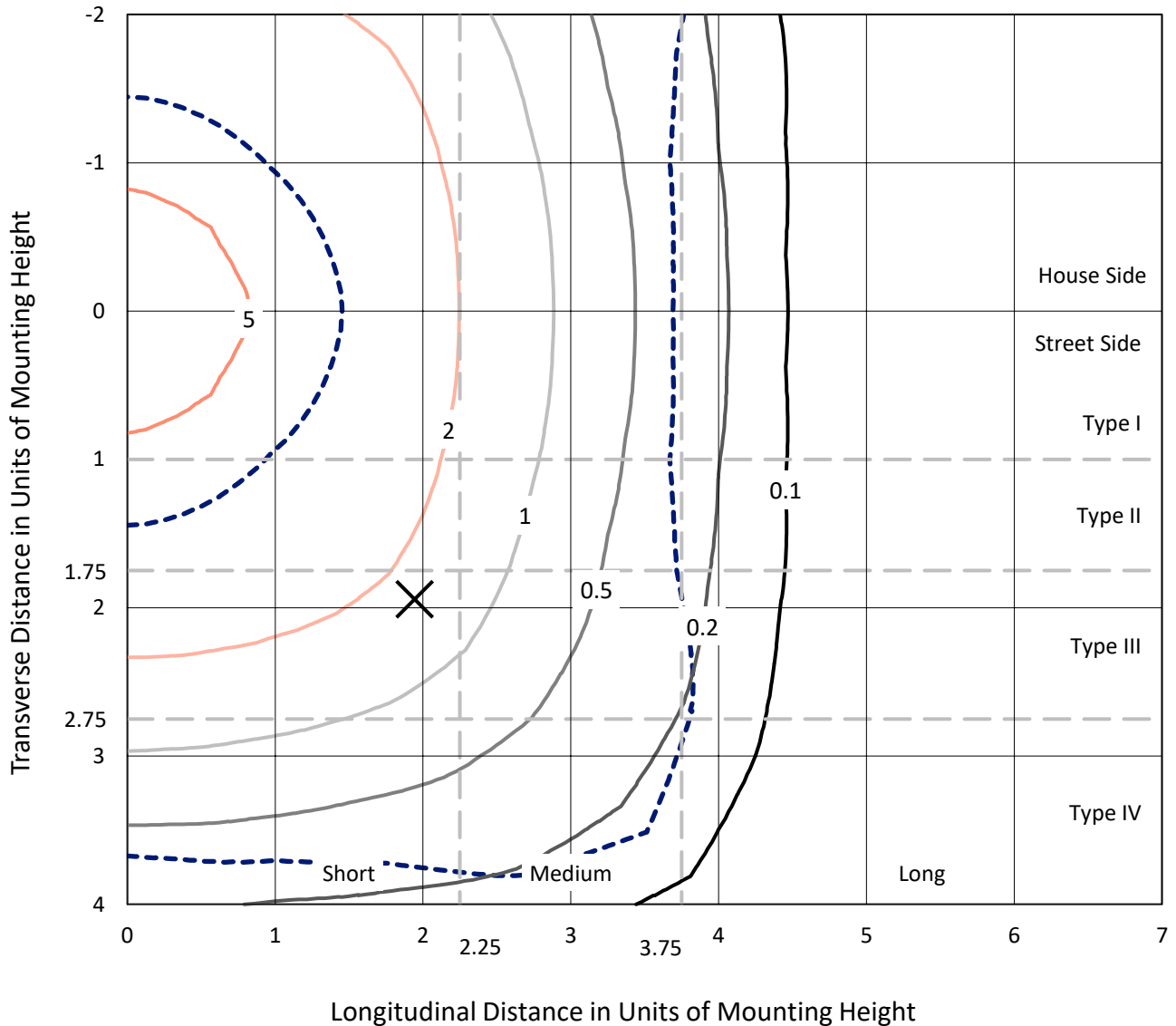




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Iso-Footcandle Lines of Horizontal Illumination

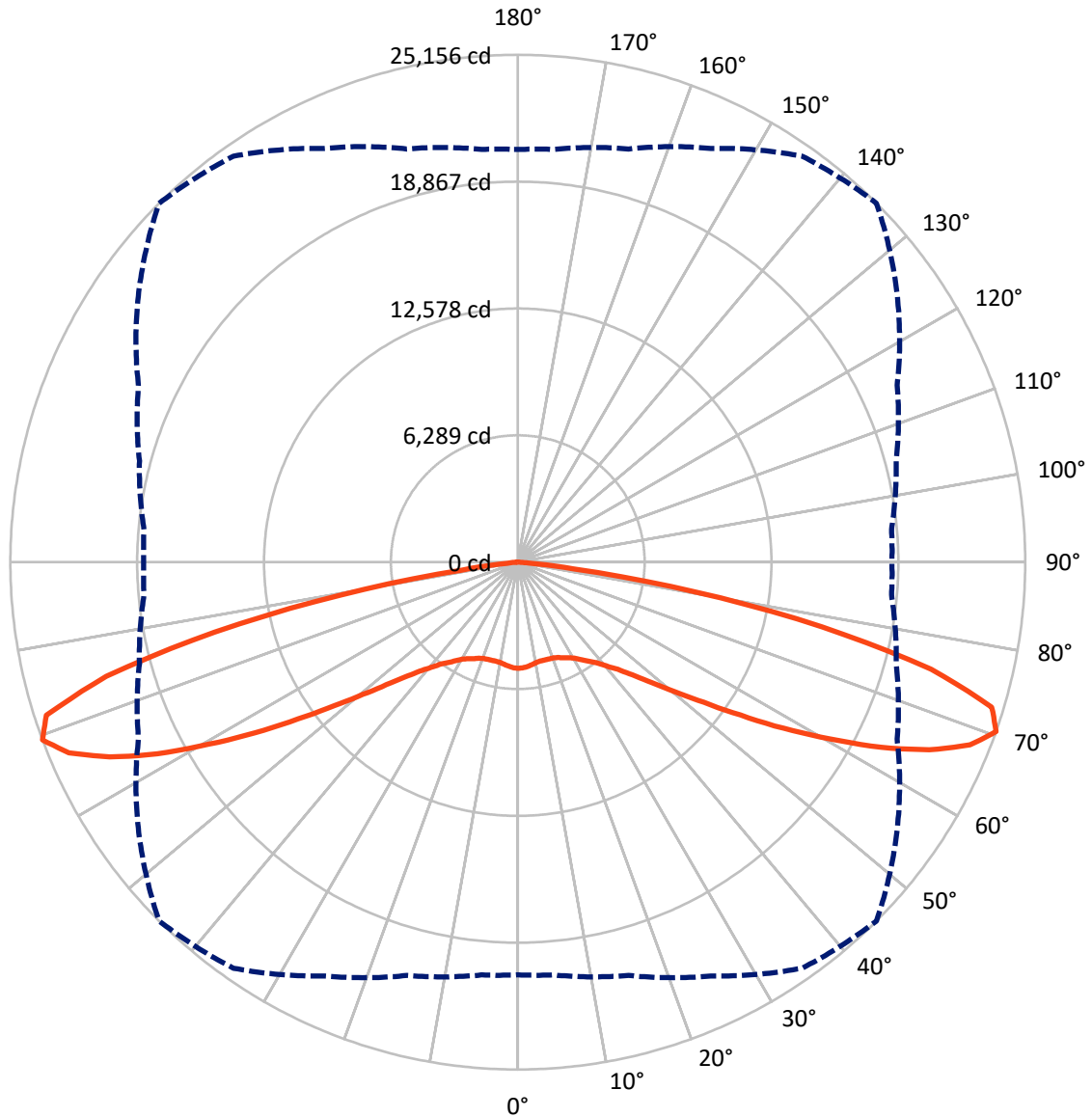
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	31069.5	0.0	31069.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31069.5	0.0	31069.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	62139.0	0.0	62139.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.0	0.8
10°-20°	1440.3	2.3
20°-30°	2454.0	3.9
30°-40°	3803.6	6.1
40°-50°	6402.0	10.3
50°-60°	11648.2	18.7
60°-70°	19720.1	31.7
70°-80°	15264.1	24.6
80°-90°	914.7	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°	62139.0	100.0
0°-180°	62139.0	100.0



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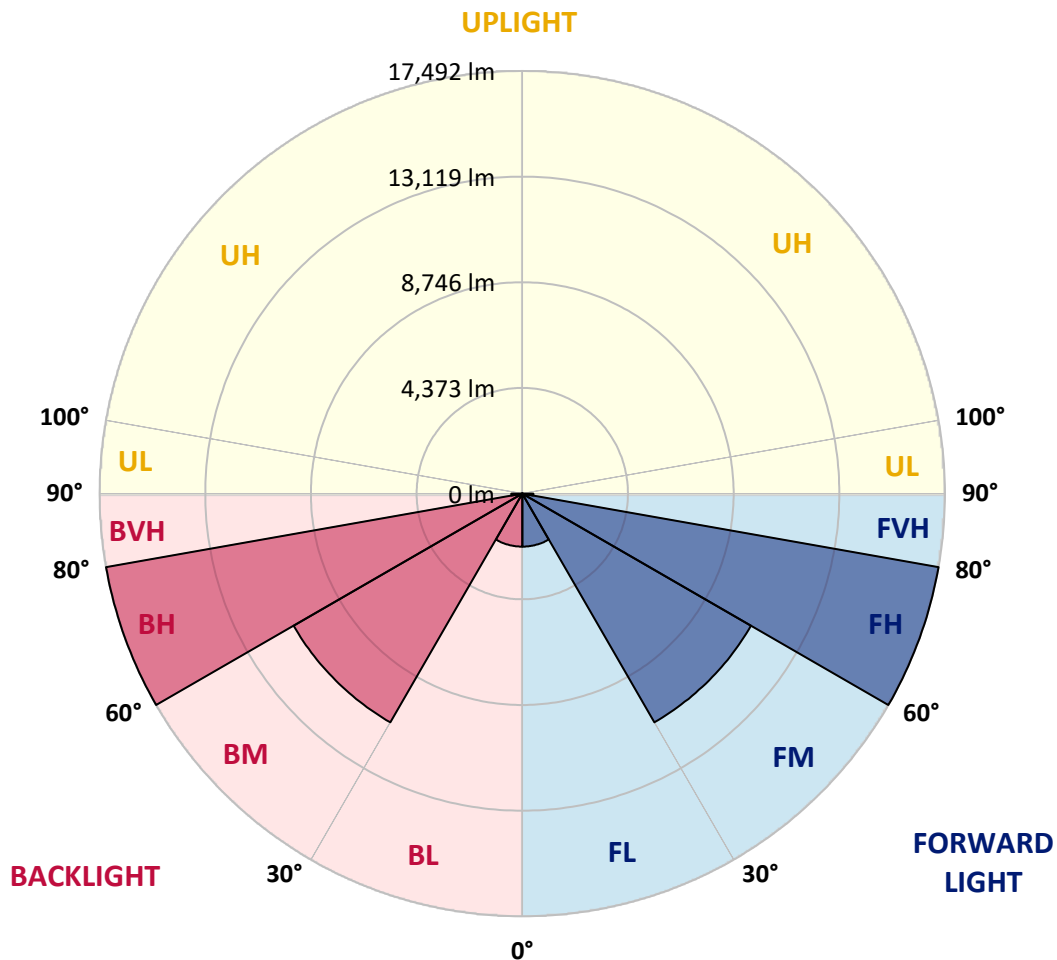
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.1	3.5			
FM (30°-60°)	10926.9	17.6			
FH (60°-80°)	17492.1	28.1			G5
FVH (80°-90°)	457.3	0.7			G3/500
BL (0°-30°)	2193.1	3.5	B3/2500		
BM (30°-60°)	10926.9	17.6	B5		
BH (60°-80°)	17492.1	28.1	B5		G5
BVH (80°-90°)	457.3	0.7			G3/500
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°	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8
2.5°	5247.7	5251.0	5251.0	5244.4	5241.1	5241.1	5237.9	5237.9	5247.7	5251.0	5254.3
5°	5201.8	5201.8	5201.8	5198.5	5191.9	5191.9	5185.3	5185.3	5188.6	5198.5	5191.9
7.5°	5139.4	5146.0	5146.0	5132.8	5123.0	5123.0	5119.7	5123.0	5126.3	5136.1	5132.8
10°	5119.7	5123.0	5106.6	5083.6	5067.2	5057.4	5060.6	5067.2	5083.6	5090.2	5093.5
12.5°	5132.8	5132.8	5103.3	5070.5	5040.9	5027.8	5024.5	5047.5	5077.0	5096.7	5103.3
15°	5149.2	5142.7	5106.6	5063.9	5034.4	5031.1	5027.8	5044.2	5086.9	5126.3	5129.6
17.5°	5159.1	5155.8	5109.9	5057.4	5040.9	5040.9	5037.7	5050.8	5096.7	5146.0	5149.2
20°	5191.9	5182.1	5129.6	5073.8	5060.6	5067.2	5057.4	5073.8	5123.0	5182.1	5195.2
22.5°	5257.5	5247.7	5195.2	5139.4	5132.8	5132.8	5129.6	5146.0	5198.5	5260.8	5270.7
25°	5336.3	5326.5	5277.2	5237.9	5244.4	5257.5	5251.0	5254.3	5296.9	5349.4	5365.8
27.5°	5441.3	5424.9	5382.3	5349.4	5369.1	5369.1	5369.1	5365.8	5392.1	5441.3	5457.7
30°	5569.3	5562.8	5516.8	5513.5	5529.9	5513.5	5513.5	5516.8	5520.1	5566.0	5582.4
32.5°	5736.7	5723.6	5700.6	5694.0	5740.0	5753.1	5707.2	5664.5	5687.5	5733.4	5743.3
35°	6012.4	5992.7	5959.9	5923.8	5959.9	6022.2	5923.8	5890.9	5950.0	6012.4	6018.9
37.5°	6386.5	6376.7	6324.2	6258.5	6255.2	6320.9	6219.1	6215.8	6327.4	6402.9	6412.8
40°	6855.8	6865.7	6800.0	6737.7	6704.8	6757.4	6678.6	6708.1	6816.4	6901.8	6895.2
42.5°	7515.5	7479.4	7377.6	7318.6	7282.5	7262.8	7243.1	7289.0	7410.4	7502.3	7574.5
45°	8286.7	8273.6	8145.6	8073.4	7994.6	7965.1	7958.5	8040.6	8188.2	8299.8	8309.7
47.5°	9159.7	9130.1	9048.1	8972.6	8943.1	8907.0	8874.2	8936.5	9084.2	9163.0	9185.9
50°	10058.9	10065.5	10065.5	10052.3	10081.9	10088.4	9999.8	10022.8	10104.9	10098.3	10091.7
52.5°	11086.1	11122.2	11292.9	11309.3	11450.4	11545.6	11384.8	11289.6	11260.1	11082.9	11096.0
55°	12293.9	12326.7	12582.7	12838.7	13219.3	13380.2	13042.1	12746.8	12536.7	12267.6	12280.7
57.5°	13800.2	13816.6	14059.5	14551.8	15155.6	15533.1	14939.0	14354.9	13928.2	13672.2	13570.5
60°	15421.5	15437.9	15792.3	16392.9	17331.5	17791.0	17055.8	16100.8	15562.6	15172.1	15198.3
62.5°	17367.6	17433.3	17751.6	18578.6	19717.4	20232.7	19258.0	17981.3	17252.8	16767.0	16786.7
65°	19451.6	19563.2	19911.1	20820.1	21870.3	22425.0	21230.4	19756.8	18851.0	18257.0	18319.4
67.5°	20803.7	20902.2	21404.3	22408.6	23718.0	24177.5	22635.0	20918.6	19786.4	19077.5	18946.2
70°	20459.1	20541.2	21210.7	22635.0	24574.6	25155.5	22969.8	20747.9	19415.5	18598.3	18545.8
72.5°	18060.1	17889.4	18867.4	20912.0	23596.6	24571.3	21916.3	18949.5	17272.4	16432.3	16333.8
75°	11969.0	12339.8	13783.8	16192.7	19963.6	21171.3	18706.6	15214.7	13104.5	12405.4	12297.1
77.5°	4000.6	4286.1	5569.3	9179.4	13609.9	15424.8	13629.6	9950.6	7039.6	5671.1	5697.3
80°	1060.0	1046.9	1355.4	2523.8	5881.1	8933.2	6846.0	3370.5	1844.4	1335.7	1266.8
82.5°	380.7	426.6	548.1	699.0	1558.9	2776.5	1959.3	945.2	692.5	512.0	495.6
85°	167.4	164.1	236.3	279.0	390.5	518.5	459.5	400.4	351.2	233.0	216.6
87.5°	36.1	36.1	55.8	42.7	68.9	68.9	85.3	101.7	105.0	68.9	55.8
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)