

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: P534075

Luminaire Tested: **GALN-SA9C-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33245 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

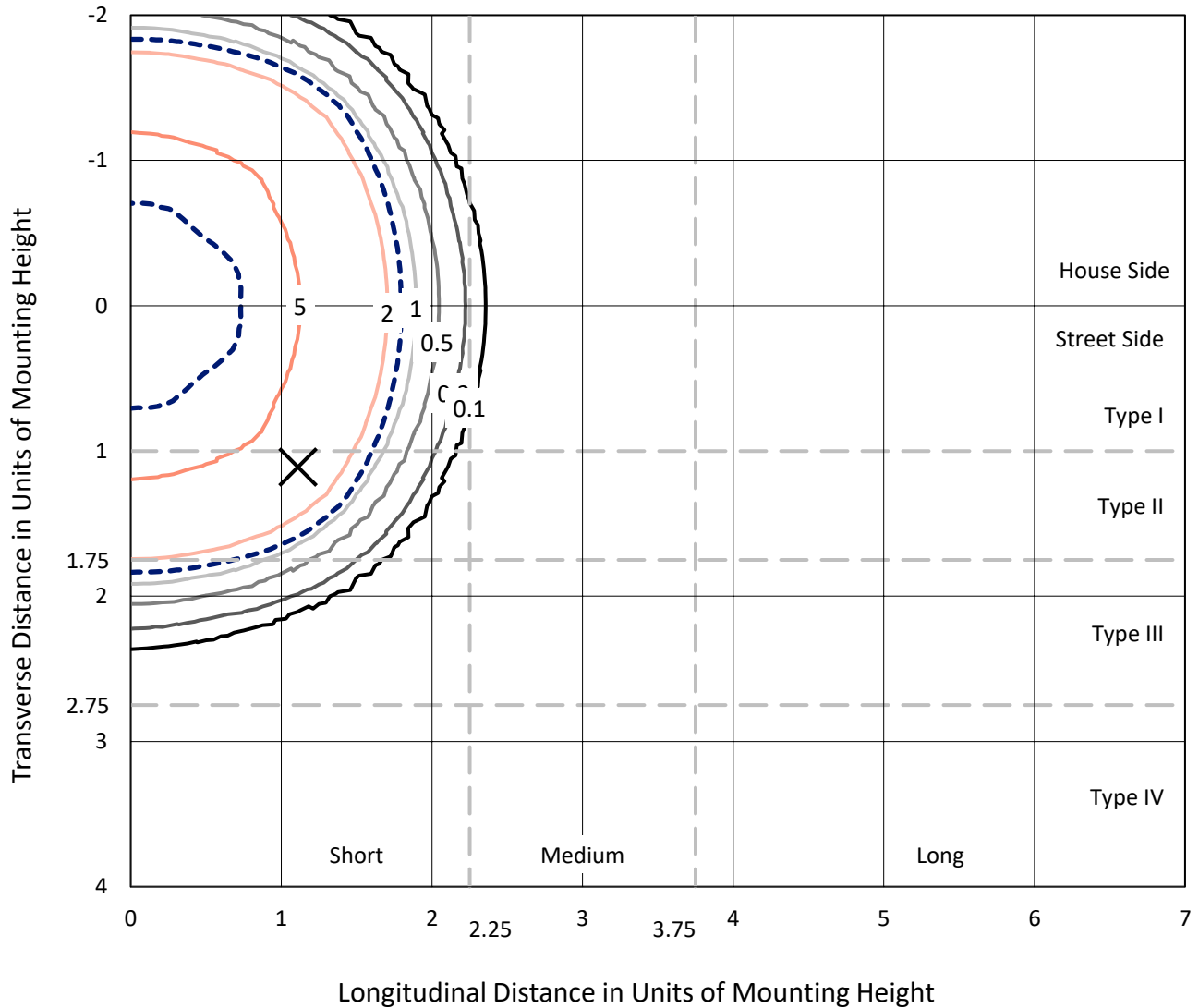
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

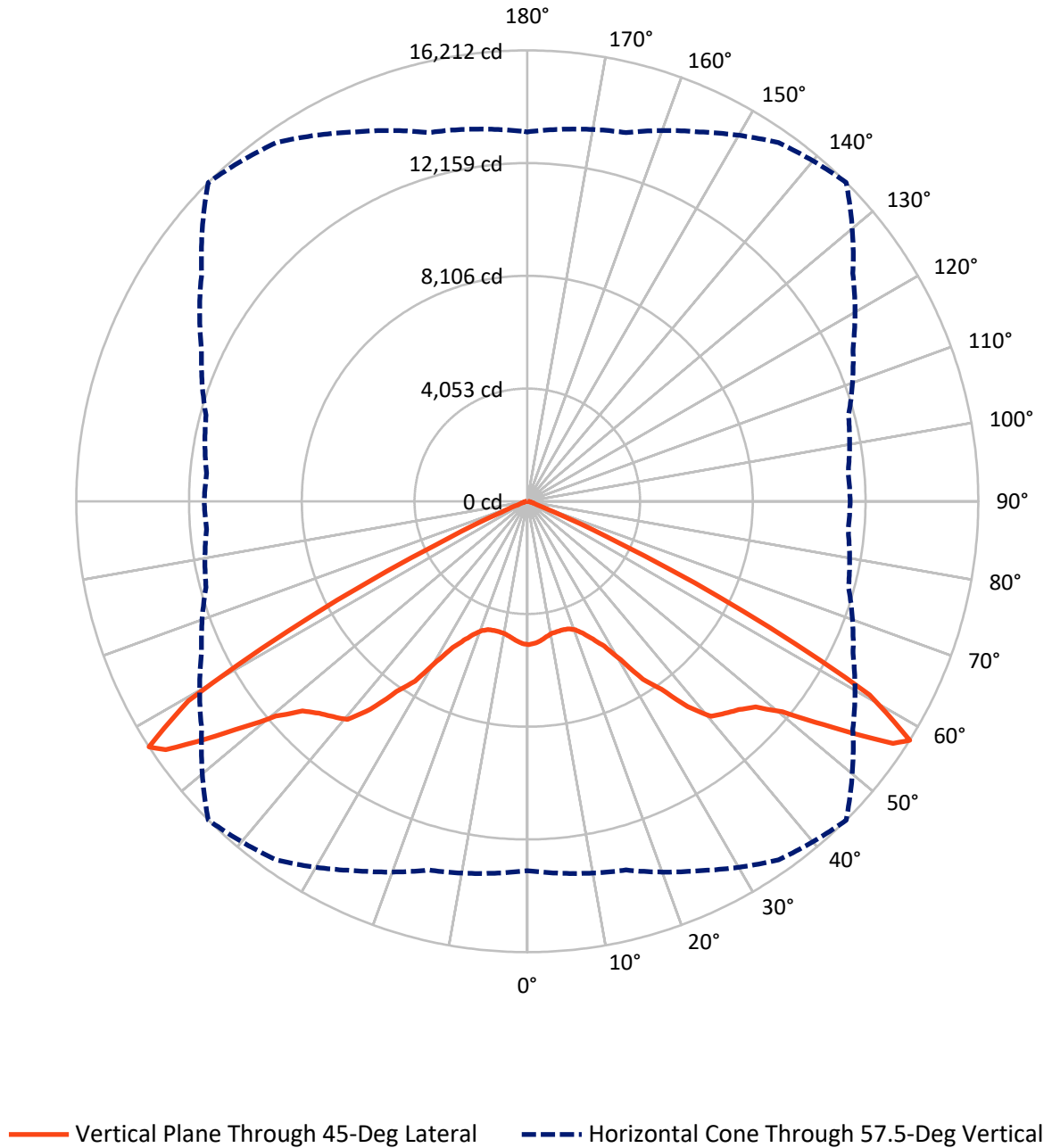
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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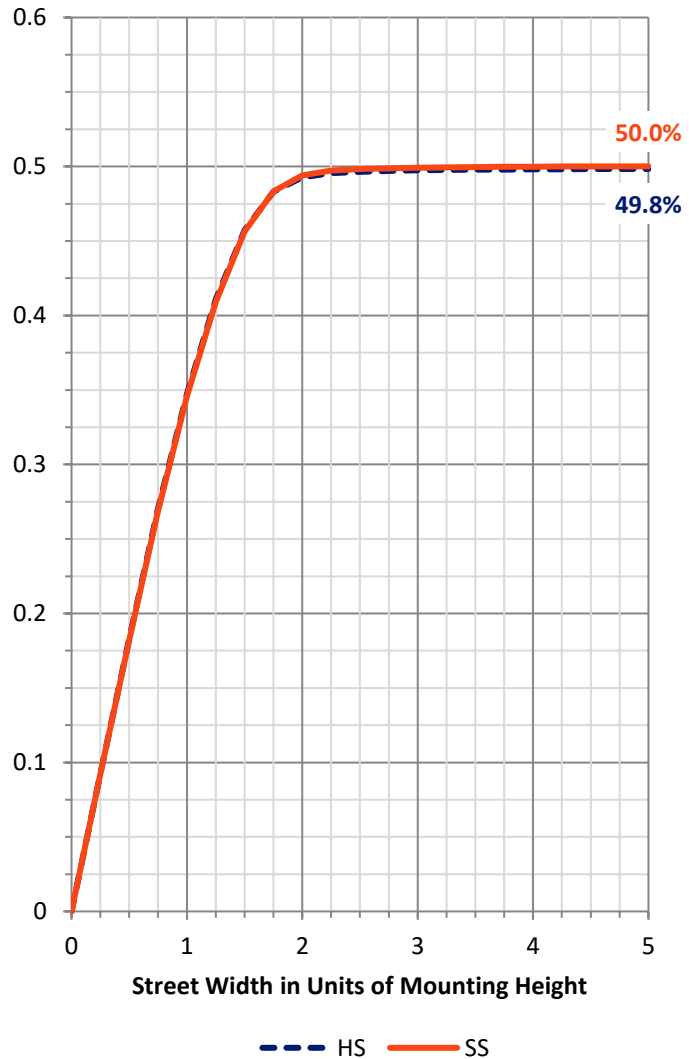
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16622.5	0.0	16622.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16622.5	0.0	16622.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33245.0	0.0	33245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.9	1.4
10°-20°	1369.7	4.1
20°-30°	2528.3	7.6
30°-40°	4972.2	15.0
40°-50°	8098.3	24.4
50°-60°	11549.2	34.7
60°-70°	3998.6	12.0
70°-80°	214.5	0.6
80°-90°	40.3	0.1
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°	33245.0	100.0
0°-180°	33245.0	100.0

Coefficient of Utilization

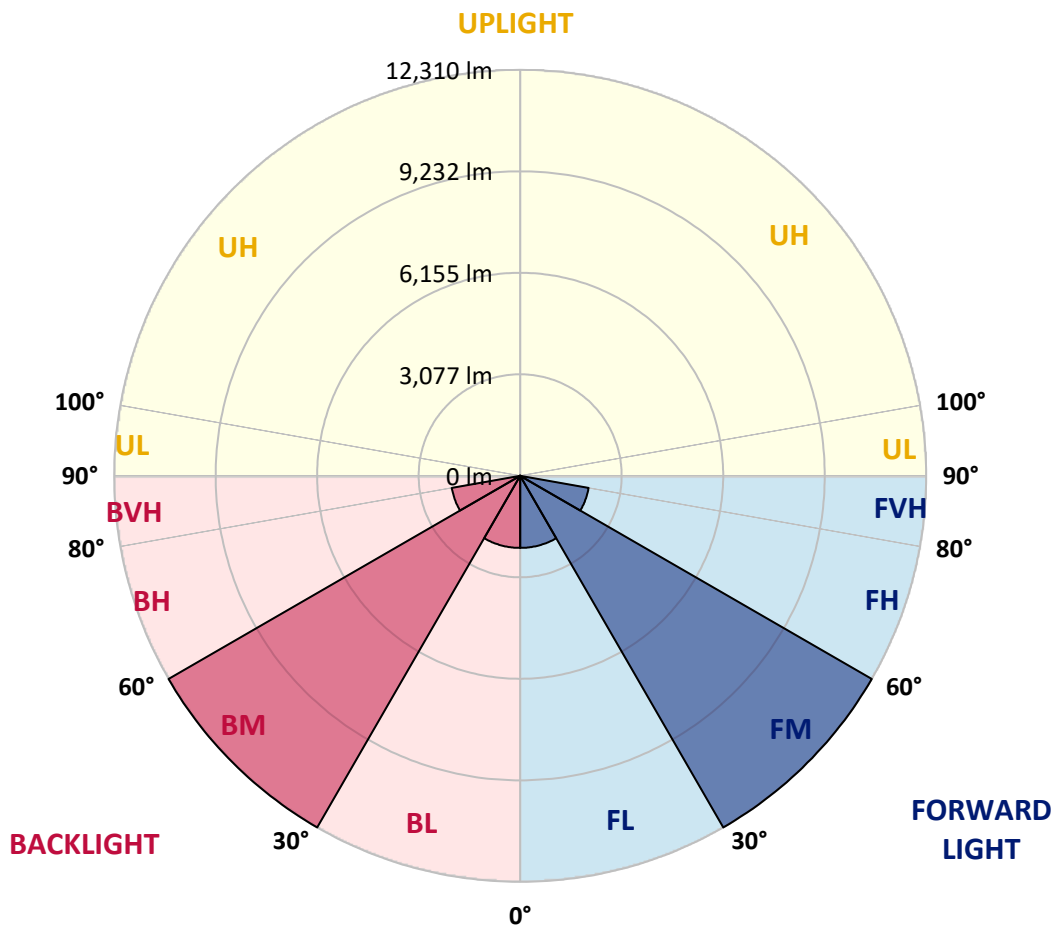


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.9	6.6			
FM (30°-60°)	12309.9	37.0			
FH (60°-80°)	2106.6	6.3			G2/5000
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	2185.9	6.6	B3/2500		
BM (30°-60°)	12309.9	37.0	B5		
BH (60°-80°)	2106.6	6.3	B3/2500		G2/5000
BVH (80°-90°)	20.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6
2.5°	5142.8	5170.5	5135.9	5122.0	5115.1	5115.1	5094.3	5094.3	5087.3	5094.3	5066.5
5°	5059.6	5087.3	5087.3	5080.4	5038.8	5031.9	5011.1	4997.2	5004.2	4976.4	4997.2
7.5°	4976.4	4997.2	4969.5	4962.6	4948.7	4921.0	4914.1	4851.7	4858.6	4858.6	4872.5
10°	4962.6	4955.6	4914.1	4879.4	4837.8	4830.9	4810.1	4796.2	4796.2	4789.3	4810.1
12.5°	4962.6	4927.9	4921.0	4844.8	4775.4	4803.2	4747.7	4713.1	4761.6	4775.4	4803.2
15°	4955.6	4990.3	4872.5	4837.8	4789.3	4796.2	4747.7	4713.1	4740.8	4754.7	4775.4
17.5°	4997.2	4976.4	4941.8	4872.5	4851.7	4824.0	4761.6	4733.9	4733.9	4768.5	4775.4
20°	5108.1	5052.7	4983.4	4948.7	4969.5	4934.9	4858.6	4754.7	4782.4	4810.1	4830.9
22.5°	5212.1	5170.5	5122.0	5101.2	5219.0	5163.6	5031.9	4914.1	4872.5	4921.0	4955.6
25°	5413.1	5413.1	5323.0	5350.7	5482.4	5489.3	5336.9	5128.9	5101.2	5122.0	5135.9
27.5°	5822.0	5842.8	5766.6	5794.3	5849.7	5898.3	5766.6	5593.3	5530.9	5524.0	5544.8
30°	6265.6	6307.2	6300.3	6418.1	6577.5	6605.2	6411.2	6127.0	5939.8	5905.2	5932.9
32.5°	6847.8	6868.6	6854.7	6993.4	7423.1	7624.1	7118.1	6716.1	6466.6	6529.0	6466.6
35°	7942.9	7922.1	7769.6	7797.4	8150.8	8296.4	7811.2	7554.8	7436.9	7561.7	7534.0
37.5°	8885.5	8809.3	8684.5	8864.7	9232.1	9363.8	8857.8	8407.3	8192.4	8400.3	8490.4
40°	9682.6	9488.5	9315.2	9495.4	9987.5	10167.7	9426.1	9058.8	8975.6	9128.1	9322.2
42.5°	10354.9	10230.1	10001.4	10015.3	10341.0	10424.2	9828.1	9613.3	9530.1	9772.7	9869.7
45°	10833.1	10715.3	10500.4	10486.6	10736.1	10680.6	10147.0	10001.4	10049.9	10209.3	10257.8
47.5°	11075.7	11138.1	11013.3	11048.0	11179.7	11048.0	10625.2	10625.2	10514.3	10611.3	10562.8
50°	11775.7	11581.7	11741.1	11741.1	11879.7	11893.6	11470.8	11318.3	11020.3	10853.9	10853.9
52.5°	12593.6	12607.4	12669.8	12898.6	13134.2	13335.2	12732.2	12080.7	11581.7	11366.8	11339.1
55°	13265.9	13404.5	13654.0	14083.7	14763.0	15040.2	14000.6	12836.2	12226.2	11893.6	11824.2
56°	13633.2	13501.5	13931.3	14520.4	15407.6	15768.0	14208.5	12988.7	12316.3	11942.1	11935.1
57.5°	13279.8	13425.3	13723.3	14652.1	15740.3	16211.6	14284.7	12919.3	11955.9	11574.7	11609.4
60°	10486.6	10625.2	11027.2	12066.8	13771.9	14139.2	12087.6	10652.9	9793.5	9245.9	9252.9
62.5°	5932.9	6036.9	6348.8	7312.2	8372.6	8726.1	7534.0	6577.5	5981.4	5676.5	5579.4
65°	2183.3	2141.7	2190.2	2682.3	3333.8	3631.8	3132.8	2647.6	2335.7	2224.8	2183.3
67.5°	817.9	755.5	707.0	755.5	949.5	1005.0	921.8	769.3	720.8	741.6	755.5
70°	506.0	478.2	381.2	360.4	353.5	346.5	367.3	388.1	443.6	519.8	533.7
72.5°	353.5	332.7	270.3	256.4	242.6	235.7	270.3	298.0	346.5	402.0	408.9
75°	138.6	145.6	138.6	152.5	159.4	166.3	194.1	214.9	235.7	235.7	228.7
77.5°	27.7	27.7	41.6	55.4	69.3	90.1	131.7	152.5	159.4	152.5	131.7
80°	0.0	0.0	13.9	27.7	55.4	76.2	117.8	131.7	145.6	131.7	104.0
82.5°	0.0	0.0	13.9	34.7	55.4	69.3	110.9	138.6	159.4	145.6	110.9
85°	0.0	0.0	13.9	27.7	41.6	48.5	48.5	34.7	34.7	20.8	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)