

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: P459383

Luminaire Tested: **GALN-SA8C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459383
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-SA8C-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 55466 lumens
Efficiency: N/A
Efficacy: 129.3 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

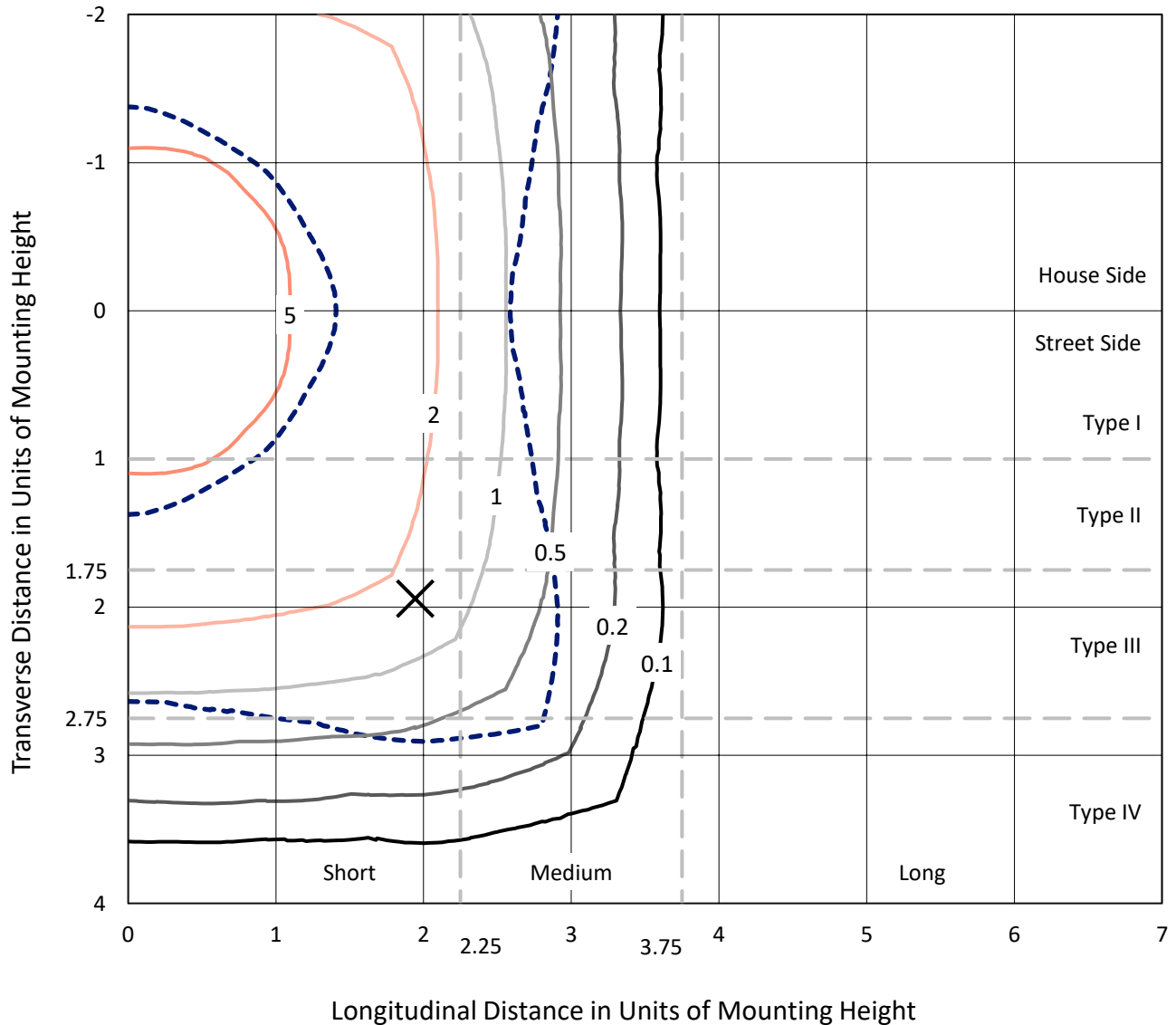
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

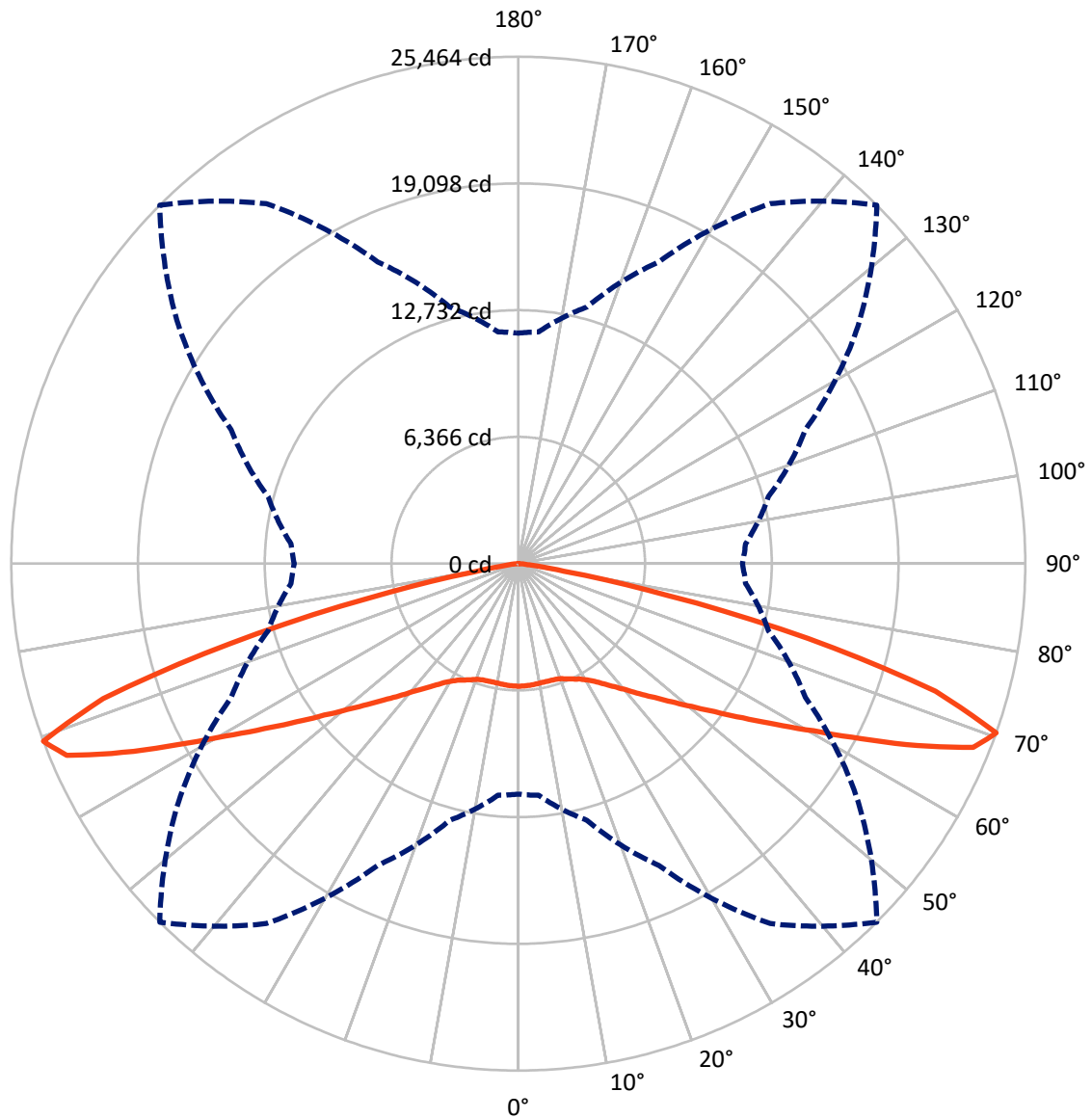
✕ Max cd
 - - - 1/2 Max cd



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	27733.0	0.0	27733.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27733.0	0.0	27733.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55466.0	0.0	55466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.1	1.1
10°-20°	1713.9	3.1
20°-30°	2931.3	5.3
30°-40°	4652.6	8.4
40°-50°	7505.9	13.5
50°-60°	12212.3	22.0
60°-70°	17703.4	31.9
70°-80°	7852.6	14.2
80°-90°	309.7	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°	55466.0	100.0
0°-180°	55466.0	100.0

Coefficient of Utilization



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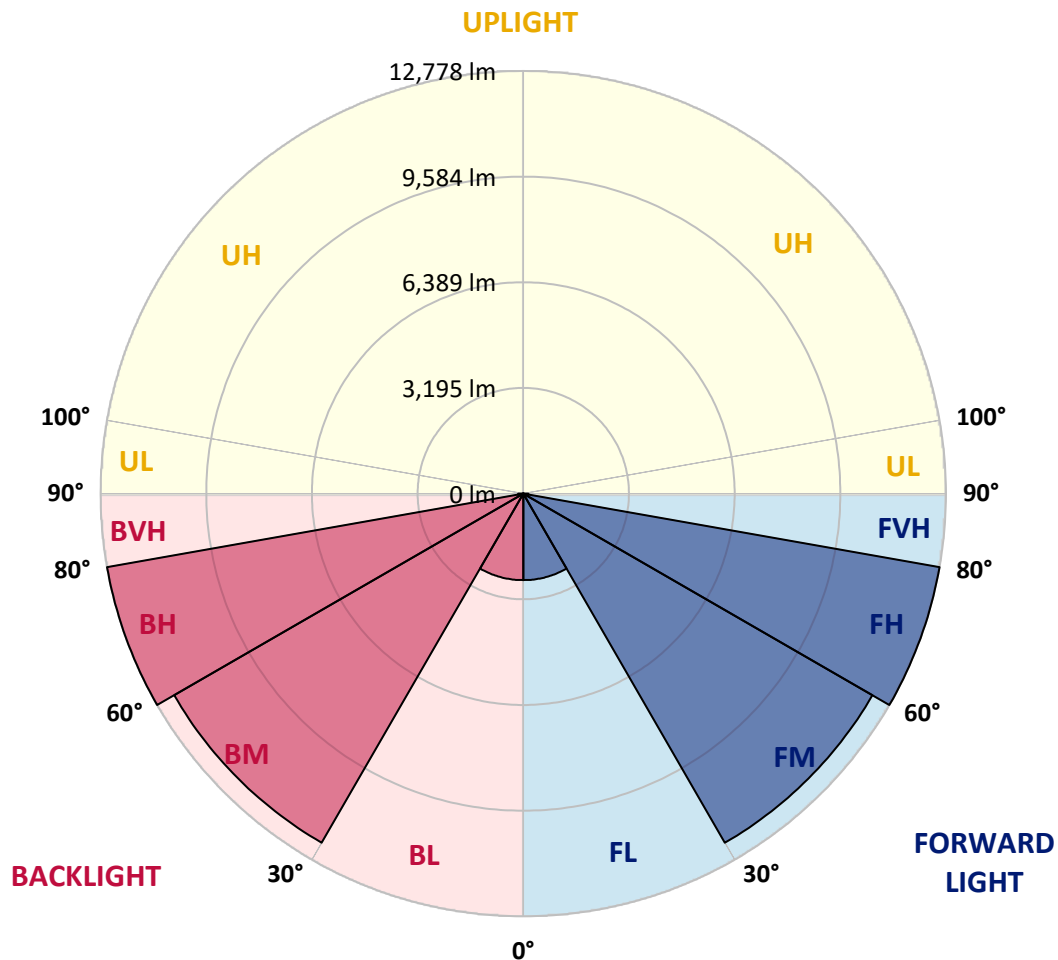
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.7	4.7			
FM (30°-60°)	12185.4	22.0			
FH (60°-80°)	12778.0	23.0			G5
FVH (80°-90°)	154.9	0.3			G2/225
BL (0°-30°)	2614.7	4.7	B4/5000		
BM (30°-60°)	12185.4	22.0	B5		
BH (60°-80°)	12778.0	23.0	B5		G5
BVH (80°-90°)	154.9	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°	6159.2	6159.2	6159.2	6159.2	6159.2	6159.2	6159.2	6159.2	6159.2	6159.2	6159.2
2.5°	6159.2	6165.1	6156.3	6150.5	6147.5	6147.5	6144.6	6147.5	6165.1	6168.0	6159.2
5°	6141.7	6147.5	6144.6	6138.8	6135.9	6135.9	6132.9	6130.0	6144.6	6150.5	6147.5
7.5°	6118.3	6121.2	6118.3	6115.4	6118.3	6115.4	6106.6	6100.8	6112.5	6112.5	6109.5
10°	6077.4	6083.2	6080.3	6083.2	6089.1	6089.1	6077.4	6065.7	6068.6	6062.8	6062.8
12.5°	6027.7	6036.5	6039.4	6051.1	6065.7	6083.2	6056.9	6030.6	6024.8	6021.8	6018.9
15°	5995.5	6004.3	6016.0	6027.7	6054.0	6092.0	6054.0	6013.1	6001.4	5989.7	5983.8
17.5°	5986.8	5998.5	6016.0	6033.5	6068.6	6106.6	6074.5	6033.5	6004.3	5986.8	5980.9
20°	6010.2	6018.9	6045.2	6077.4	6127.1	6165.1	6132.9	6089.1	6045.2	6018.9	6010.2
22.5°	6056.9	6071.5	6103.7	6162.2	6232.3	6287.9	6244.0	6170.9	6100.8	6065.7	6054.0
25°	6159.2	6170.9	6208.9	6287.9	6369.7	6422.3	6375.6	6290.8	6194.3	6147.5	6132.9
27.5°	6314.2	6331.7	6372.6	6466.2	6533.4	6562.6	6530.5	6472.0	6401.9	6352.2	6340.5
30°	6533.4	6553.9	6615.3	6714.7	6758.5	6776.0	6761.4	6723.4	6673.7	6621.1	6609.4
32.5°	6828.7	6840.3	6910.5	7004.1	7045.0	7050.8	7033.3	7015.7	6933.9	6846.2	6840.3
35°	7159.0	7179.4	7264.2	7375.3	7413.3	7416.2	7381.1	7354.8	7258.4	7188.2	7188.2
37.5°	7597.5	7606.2	7688.1	7813.8	7854.7	7843.0	7825.5	7802.1	7699.8	7609.2	7612.1
40°	8112.0	8129.5	8199.6	8345.8	8345.8	8331.2	8342.9	8325.3	8223.0	8135.3	8138.3
42.5°	8722.9	8731.7	8816.5	8971.4	8959.7	8930.5	8942.1	8918.8	8854.5	8755.1	8720.0
45°	9374.8	9409.9	9556.0	9705.1	9681.7	9588.2	9635.0	9629.1	9570.6	9421.6	9430.3
47.5°	10161.1	10219.6	10359.9	10538.2	10511.9	10365.8	10418.4	10453.5	10371.6	10207.9	10178.7
50°	11046.9	11084.9	11292.4	11459.0	11435.7	11280.7	11400.6	11406.4	11201.8	10970.9	10970.9
52.5°	11991.1	12029.1	12309.7	12569.9	12584.5	12359.4	12455.9	12450.0	12116.8	11812.8	11754.3
55°	13049.3	13066.8	13429.3	13812.2	13894.1	13674.9	13686.5	13569.6	13137.0	12783.3	12751.1
57.5°	14142.6	14206.9	14607.4	15104.3	15346.9	15212.5	15151.1	14838.3	14420.3	14013.9	13993.5
60°	15352.8	15355.7	15876.0	16463.6	16954.7	17045.3	16793.9	16375.9	15835.1	15297.2	15273.9
62.5°	16191.8	16317.4	16975.2	17969.1	18849.0	19357.6	18694.0	17817.1	16753.0	15884.8	15797.1
65°	16364.2	16449.0	17451.7	19135.4	20933.2	22029.4	20494.7	18629.7	16814.4	15656.8	15598.3
67.5°	14969.8	15060.5	16411.0	18995.1	22394.8	24642.8	21664.0	18238.0	15773.7	14341.3	14227.3
70°	11578.9	11681.2	13350.4	16720.9	22070.4	25464.2	20830.9	15908.2	13008.4	11462.0	11254.4
72.5°	6156.3	6533.4	7959.9	11476.6	17913.5	21924.2	17080.4	11608.1	8389.7	6857.9	6583.1
75°	2248.0	2294.7	3089.9	5089.3	10421.3	15034.2	10821.8	5536.6	3183.4	2458.4	2332.7
77.5°	929.6	926.7	1017.3	1537.6	3785.6	7699.8	4224.1	1625.3	1014.4	938.4	926.7
80°	549.6	549.6	605.1	640.2	996.8	2324.0	1113.7	725.0	608.0	555.4	564.2
82.5°	245.6	260.2	382.9	403.4	482.3	637.3	537.9	461.9	397.6	274.8	248.5
85°	134.5	116.9	201.7	210.5	230.9	236.8	254.3	251.4	230.9	134.5	137.4
87.5°	26.3	32.2	58.5	43.8	49.7	43.8	58.5	81.9	84.8	46.8	38.0
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)