

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: P459239

Luminaire Tested: **GALN-SA7B-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38531 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

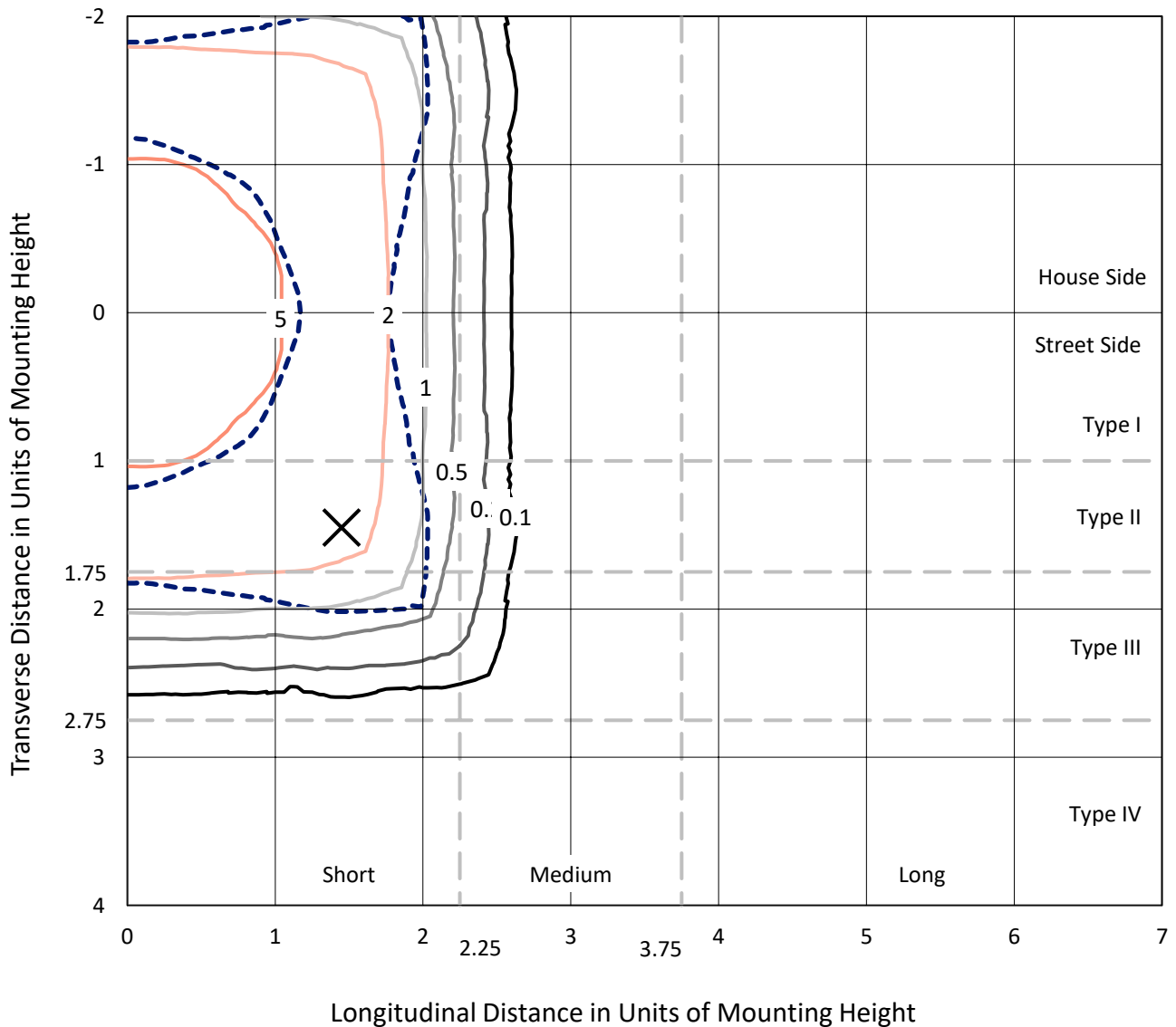
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

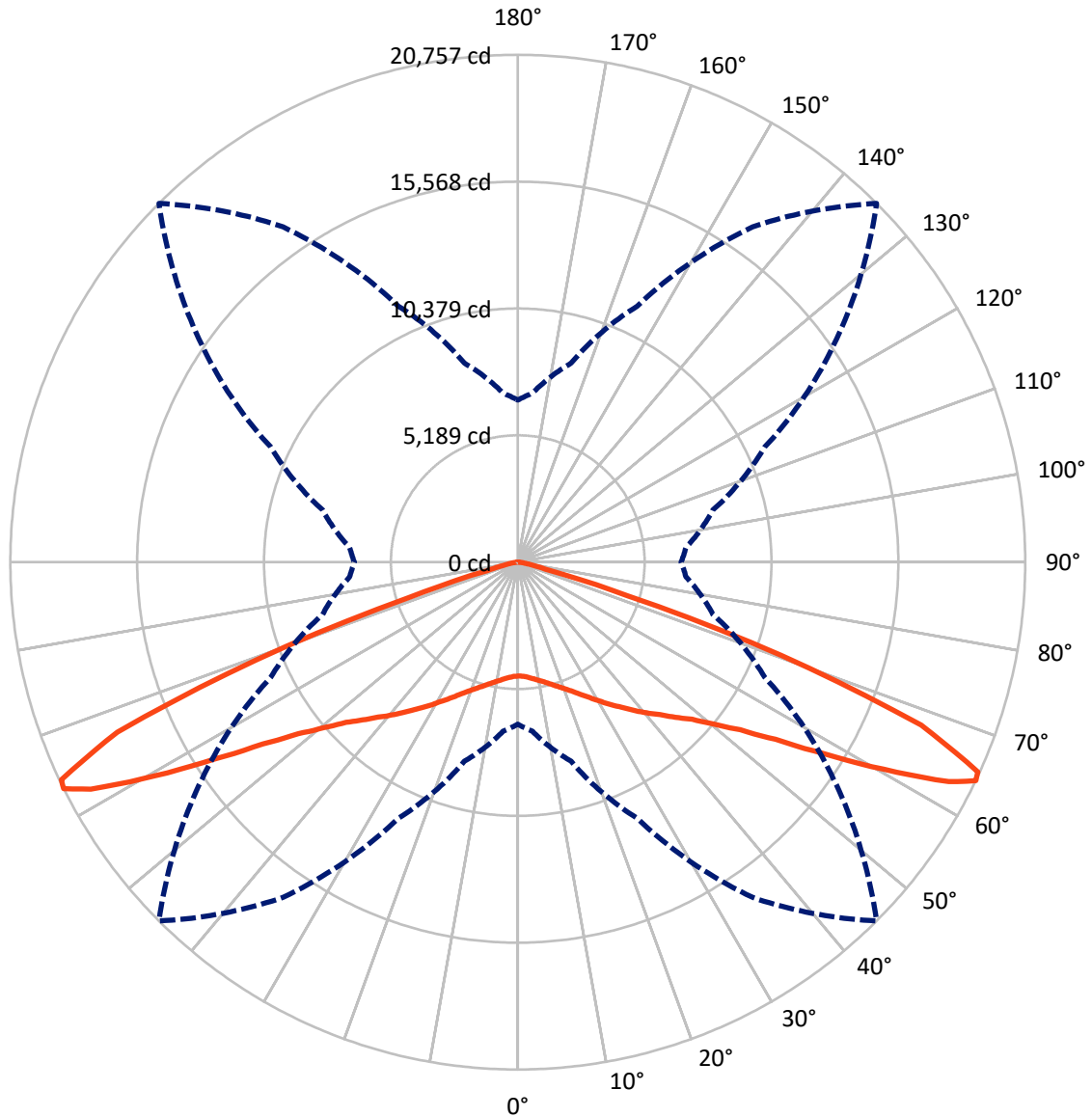
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19265.5	0.0	19265.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19265.5	0.0	19265.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38531.0	0.0	38531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	1.2
10°-20°	1475.8	3.8
20°-30°	2788.9	7.2
30°-40°	4618.7	12.0
40°-50°	7210.6	18.7
50°-60°	11147.4	28.9
60°-70°	9612.3	24.9
70°-80°	1089.3	2.8
80°-90°	130.5	0.3
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°	38531.0	100.0
0°-180°	38531.0	100.0



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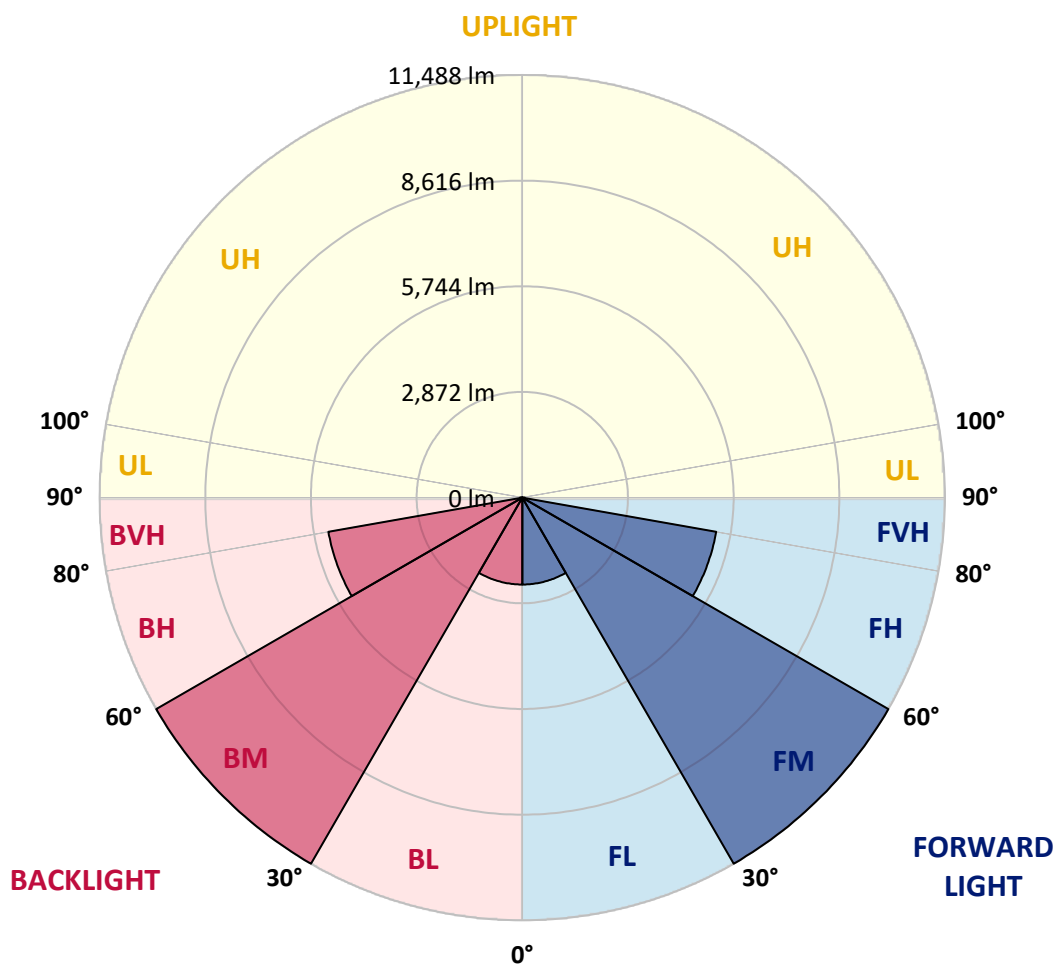
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2361.1	6.1			
FM	(30°-60°)	11488.3	29.8			
FH	(60°-80°)	5350.8	13.9			G3/7500
FVH	(80°-90°)	65.3	0.2			G1/100
BL	(0°-30°)	2361.1	6.1	B3/2500		
BM	(30°-60°)	11488.3	29.8	B5		
BH	(60°-80°)	5350.8	13.9	B5		G3/7500
BVH	(80°-90°)	65.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4657.1	4657.1	4657.1	4657.1	4657.1	4657.1	4657.1	4657.1	4657.1	4657.1	4657.1
2.5°	4675.5	4685.7	4677.5	4675.5	4673.4	4673.4	4673.4	4675.5	4683.6	4689.8	4685.7
5°	4734.7	4742.8	4738.8	4736.7	4734.7	4736.7	4732.6	4730.6	4736.7	4736.7	4734.7
7.5°	4808.1	4818.3	4814.3	4818.3	4820.4	4822.4	4812.2	4804.1	4802.0	4808.1	4804.1
10°	4908.1	4916.3	4918.3	4920.4	4924.5	4922.4	4910.2	4895.9	4893.9	4891.8	4889.8
12.5°	5020.4	5026.5	5028.5	5036.7	5042.8	5044.9	5030.6	5018.3	4997.9	5002.0	4993.9
15°	5146.9	5159.2	5157.1	5169.4	5185.7	5189.8	5175.5	5155.1	5136.7	5126.5	5120.4
17.5°	5302.0	5310.2	5306.1	5318.3	5338.7	5349.0	5336.7	5310.2	5291.8	5269.4	5257.1
20°	5485.7	5500.0	5504.1	5504.1	5522.4	5532.6	5514.3	5506.1	5477.5	5461.2	5451.0
22.5°	5693.8	5700.0	5712.2	5724.5	5742.8	5738.7	5732.6	5720.4	5693.8	5679.6	5663.2
25°	5928.5	5934.7	5965.3	5991.8	5997.9	5993.8	5985.7	5979.6	5955.1	5922.4	5910.2
27.5°	6202.0	6214.3	6255.1	6279.6	6279.6	6281.6	6265.3	6285.7	6232.6	6193.8	6189.8
30°	6544.9	6553.0	6587.7	6612.2	6600.0	6589.8	6585.7	6606.1	6548.9	6479.6	6463.2
32.5°	6883.6	6912.2	6942.8	6995.9	6953.0	6934.7	6930.6	6944.9	6879.6	6802.0	6779.6
35°	7246.9	7267.3	7324.5	7369.4	7330.6	7287.7	7306.1	7351.0	7273.4	7169.4	7165.3
37.5°	7648.9	7667.3	7740.8	7787.7	7759.1	7685.7	7716.3	7769.3	7691.8	7563.2	7536.7
40°	8067.3	8106.1	8197.9	8246.9	8200.0	8102.0	8159.1	8216.3	8146.9	7997.9	7938.7
42.5°	8536.7	8597.9	8730.6	8755.1	8665.3	8532.6	8632.6	8724.4	8675.5	8504.0	8481.6
45°	9085.7	9122.4	9285.7	9338.7	9214.2	9048.9	9173.4	9340.8	9304.0	9106.1	9063.2
47.5°	9700.0	9734.6	9904.0	9983.6	9826.5	9604.0	9828.5	10046.9	10024.4	9812.2	9791.8
50°	10426.5	10434.6	10669.3	10759.1	10602.0	10410.2	10610.2	10881.6	10791.8	10520.4	10516.3
52.5°	11222.4	11232.6	11528.5	11702.0	11614.2	11397.9	11634.6	11799.9	11571.4	11216.3	11189.7
55°	11912.2	11963.2	12367.3	12828.5	12948.9	12791.8	12863.2	12785.6	12222.4	11724.4	11646.9
57.5°	12193.8	12293.8	12908.1	13769.3	14553.0	14785.6	14234.6	13495.8	12481.6	11777.5	11702.0
60°	11506.1	11614.2	12567.3	14202.0	16202.0	17212.2	15663.2	13616.3	11891.8	10902.0	10783.6
62.5°	9214.2	9244.9	10646.9	13183.6	17163.2	19779.5	16265.2	12589.7	10175.5	8830.6	8783.6
64°	6630.6	6944.9	8430.6	11559.1	16742.8	20757.0	15918.3	11151.0	8265.3	6904.0	6683.6
65°	4959.2	5044.9	6795.9	9871.4	16002.0	20683.6	15244.8	9775.5	6844.9	5283.6	5038.7
67.5°	1873.5	1883.7	2508.2	4920.4	11391.8	17795.8	11634.6	5318.3	2883.7	2085.7	2010.2
70°	777.5	791.8	920.4	1655.1	4895.9	11426.5	5610.2	1918.4	1055.1	855.1	842.9
72.5°	569.4	577.5	616.3	734.7	1506.1	4691.8	1844.9	814.3	618.4	553.1	546.9
75°	446.9	451.0	479.6	540.8	702.0	1300.0	767.3	559.2	471.4	424.5	420.4
77.5°	340.8	351.0	371.4	412.2	471.4	616.3	508.2	418.4	363.3	324.5	318.4
80°	234.7	246.9	285.7	302.0	316.3	400.0	346.9	316.3	283.7	236.7	222.4
82.5°	144.9	153.1	191.8	206.1	200.0	224.5	222.4	226.5	202.0	146.9	136.7
85°	75.5	79.6	104.1	108.2	100.0	91.8	114.3	132.7	124.5	83.7	81.6
87.5°	16.3	18.4	22.4	20.4	22.4	22.4	28.6	42.9	44.9	28.6	26.5
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)