

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: P459243

Luminaire Tested: **GALN-SA7B-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
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-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38092 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

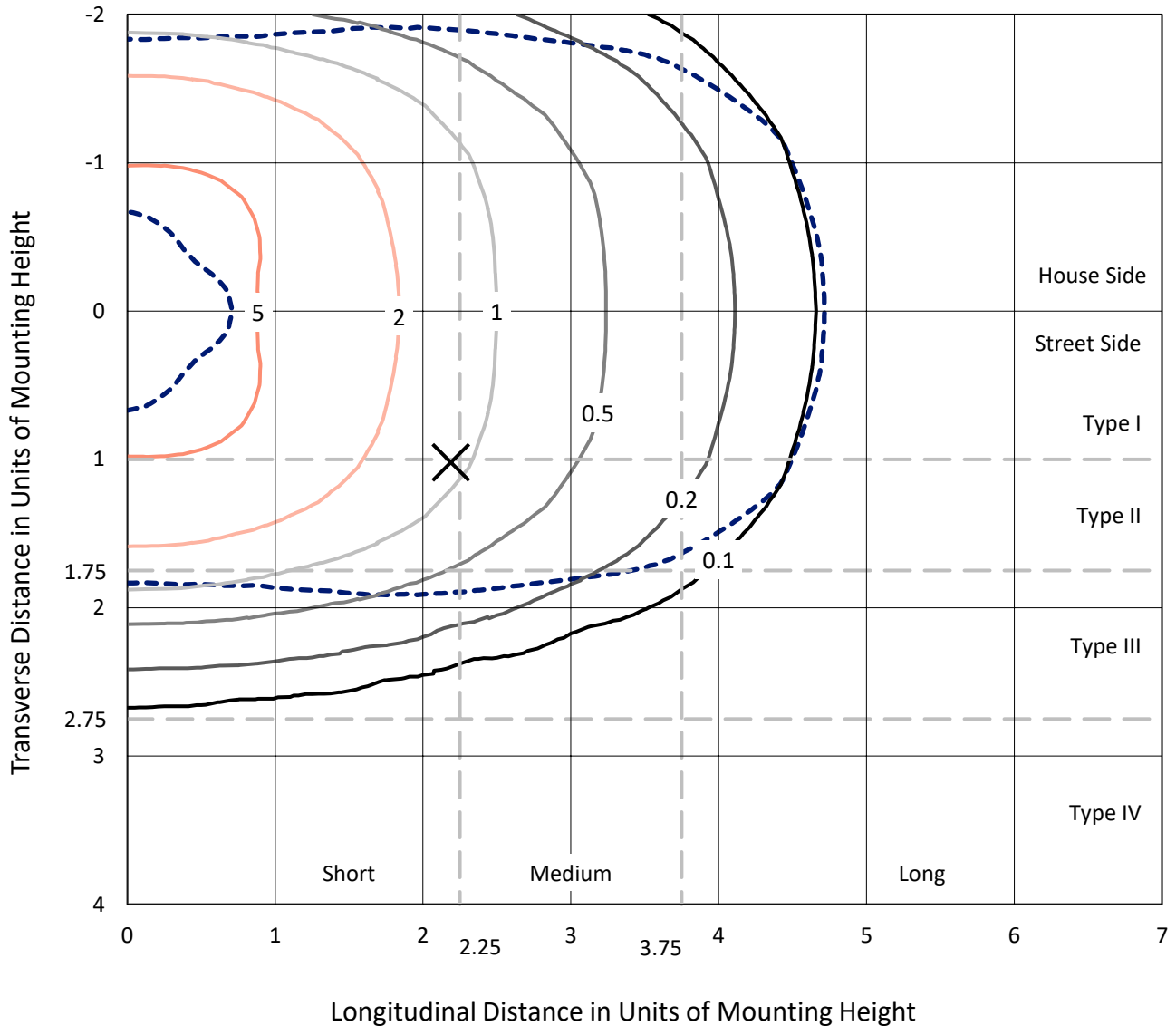
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

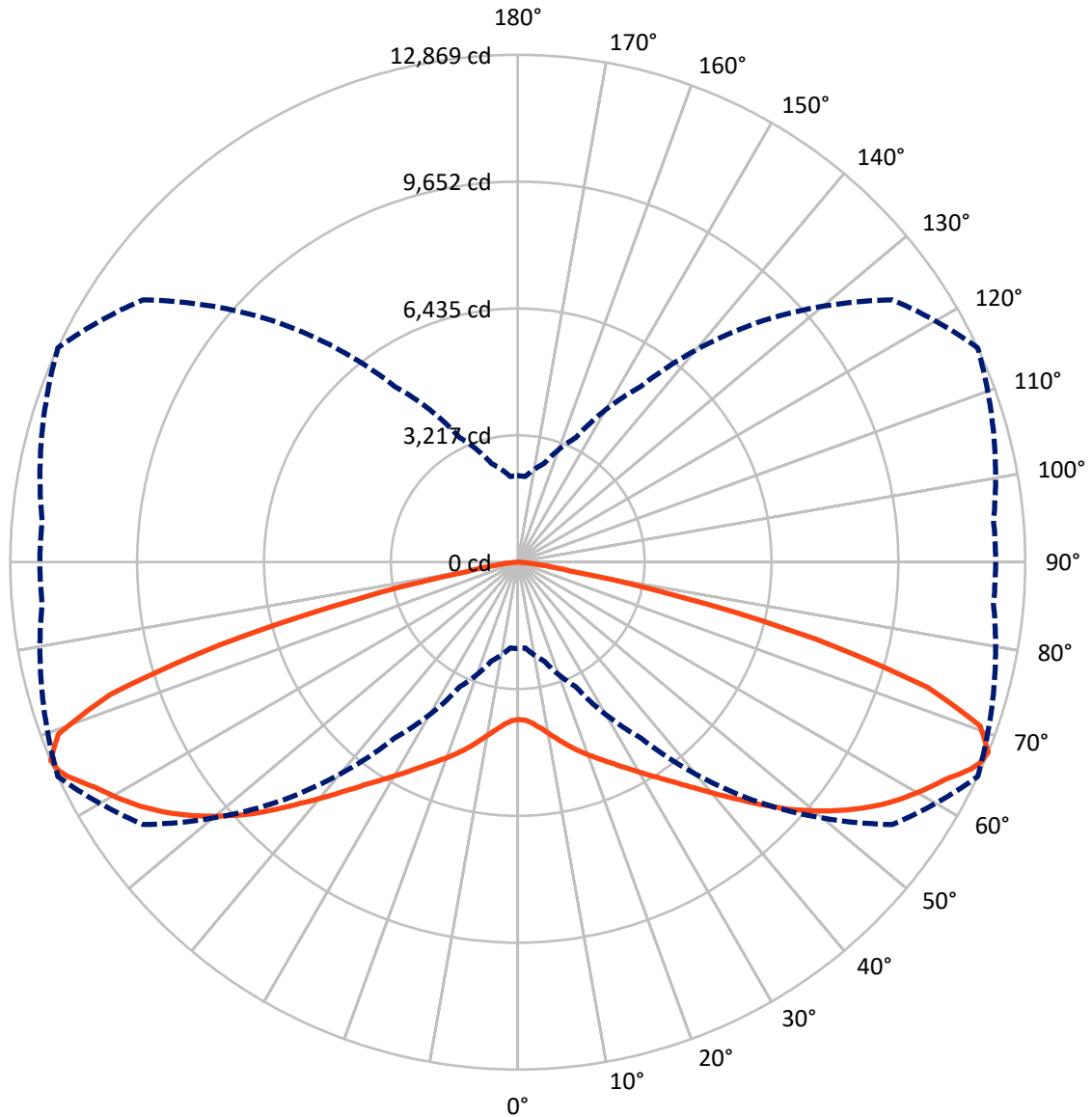
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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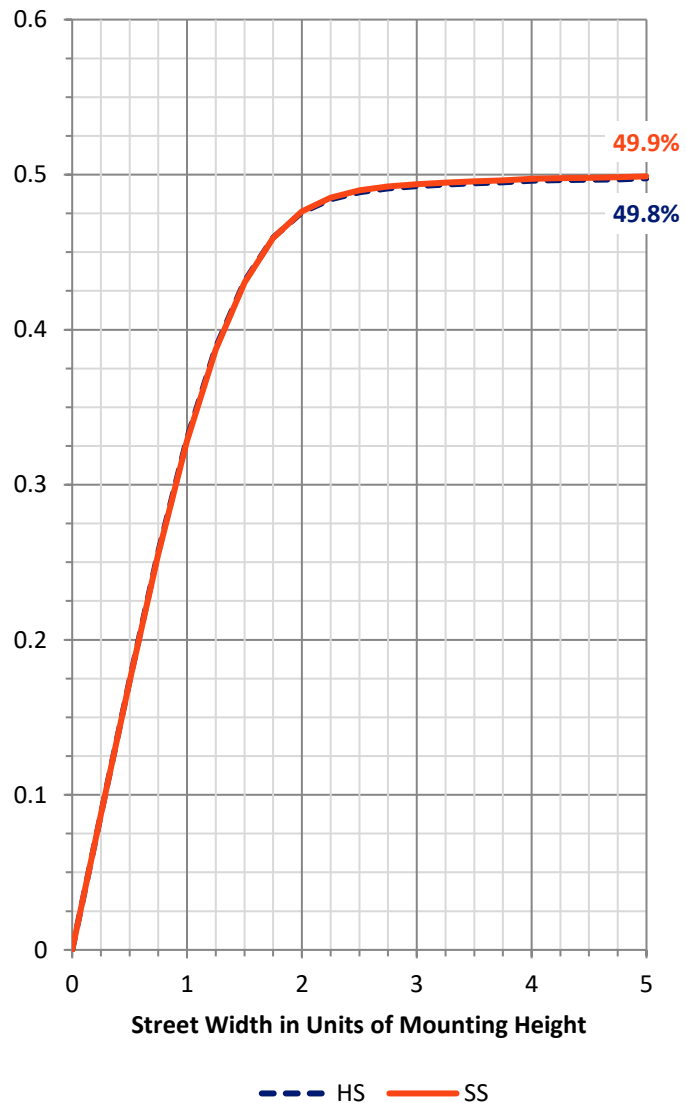
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19046.0	0.0	19046.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19046.0	0.0	19046.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38092.0	0.0	38092.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.5	1.0
10°-20°	1317.0	3.5
20°-30°	2576.2	6.8
30°-40°	4381.7	11.5
40°-50°	6935.0	18.2
50°-60°	9195.6	24.1
60°-70°	8674.3	22.8
70°-80°	4288.2	11.3
80°-90°	330.5	0.9
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°	38092.0	100.0
0°-180°	38092.0	100.0



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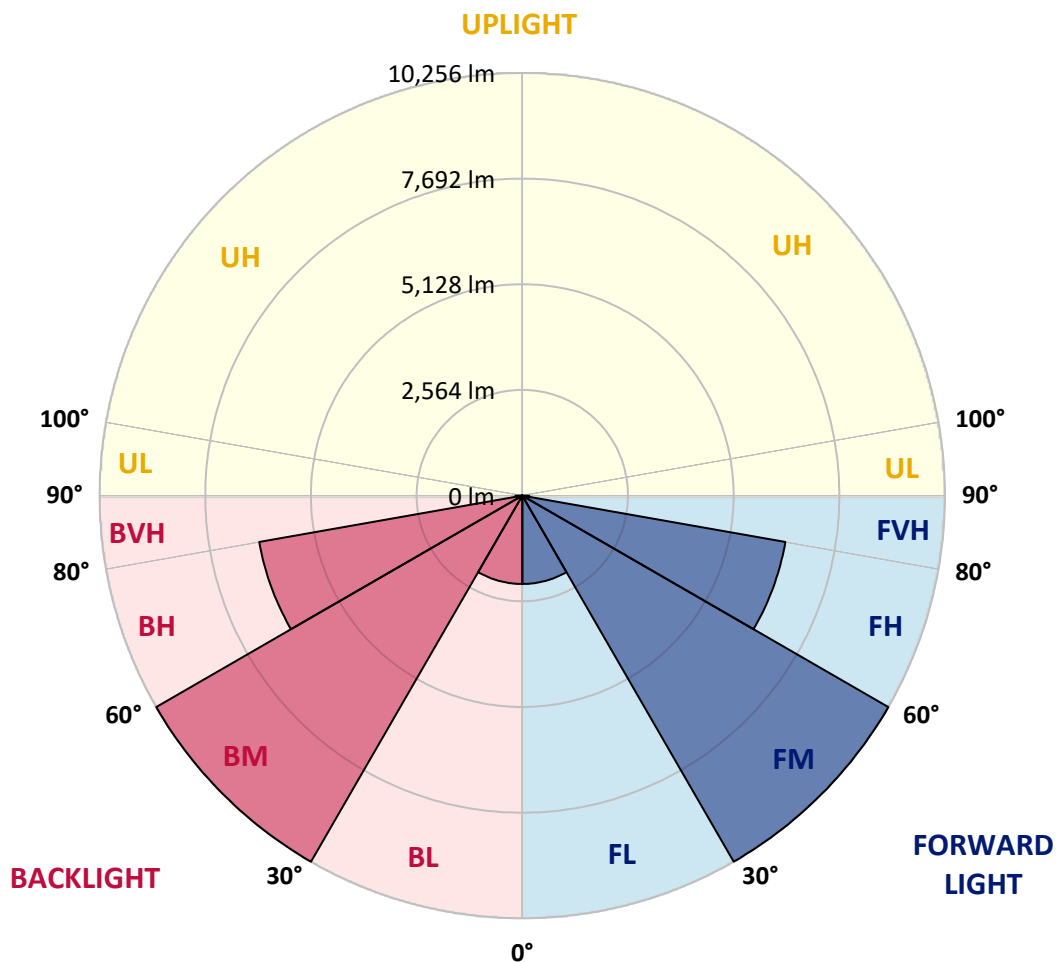
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2143.4	5.6			
FM	(30°-60°)	10256.2	26.9			
FH	(60°-80°)	6481.2	17.0			G3/7500
FVH	(80°-90°)	165.2	0.4			G2/225
BL	(0°-30°)	2143.4	5.6	B3/2500		
BM	(30°-60°)	10256.2	26.9	B5		
BH	(60°-80°)	6481.2	17.0	B5		G5
BVH	(80°-90°)	165.2	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8
2.5°	3969.4	3973.5	3977.6	3983.7	3991.8	4004.1	4012.2	4018.4	4034.7	4036.7	4034.7
5°	3955.1	3959.2	3969.4	3987.8	4014.3	4051.0	4079.6	4114.3	4140.8	4159.2	4155.1
7.5°	3953.1	3961.2	3977.6	4016.3	4067.4	4130.6	4195.9	4255.1	4306.1	4346.9	4340.8
10°	3985.7	3995.9	4022.5	4079.6	4159.2	4251.0	4342.9	4430.6	4504.1	4557.1	4575.5
12.5°	4040.8	4049.0	4098.0	4183.7	4298.0	4412.3	4516.3	4624.5	4726.5	4816.3	4816.3
15°	4136.7	4151.0	4212.3	4336.7	4477.6	4610.2	4716.3	4830.6	4940.8	5042.9	5073.5
17.5°	4269.4	4289.8	4381.6	4540.8	4720.4	4842.9	4942.9	5036.7	5132.7	5230.6	5244.9
20°	4451.0	4471.4	4593.9	4785.7	4998.0	5144.9	5212.3	5234.7	5281.6	5375.5	5387.8
22.5°	4698.0	4718.4	4855.1	5071.4	5308.2	5467.4	5495.9	5442.9	5430.6	5504.1	5512.3
25°	4977.6	4995.9	5153.1	5385.7	5630.6	5804.1	5795.9	5665.3	5591.8	5636.7	5649.0
27.5°	5291.8	5318.4	5477.6	5718.4	5983.7	6136.7	6112.3	5922.5	5765.3	5757.2	5761.2
30°	5693.9	5722.5	5873.5	6104.1	6365.3	6506.1	6455.1	6200.0	5957.2	5875.5	5875.5
32.5°	6118.4	6189.8	6342.9	6583.7	6787.8	6889.8	6812.3	6506.1	6183.7	6069.4	6063.3
35°	6671.4	6710.2	6861.2	7095.9	7249.0	7328.6	7179.6	6851.0	6479.6	6344.9	6326.5
37.5°	7212.3	7244.9	7420.4	7644.9	7830.6	7826.5	7624.5	7261.2	6846.9	6695.9	6683.7
40°	7765.3	7800.0	8000.0	8206.1	8391.8	8375.5	8130.6	7724.5	7283.7	7114.3	7146.9
42.5°	8244.9	8283.7	8510.2	8804.1	8971.4	8967.4	8683.7	8226.5	7767.4	7616.3	7644.9
45°	8681.6	8716.3	8979.6	9316.3	9561.2	9591.8	9281.6	8798.0	8326.5	8132.7	8140.8
47.5°	8989.8	9055.1	9330.6	9716.3	10049.0	10157.2	9853.1	9379.6	8836.7	8634.7	8646.9
50°	9224.5	9265.3	9565.3	10004.1	10424.5	10649.0	10404.1	9918.4	9347.0	9132.7	9161.2
52.5°	9253.1	9302.1	9628.6	10134.7	10673.5	11014.3	10893.9	10444.9	9867.4	9647.0	9708.2
55°	9020.4	9049.0	9438.8	10053.1	10771.4	11285.7	11316.3	10934.7	10363.3	10195.9	10236.7
57.5°	8357.2	8430.6	8924.5	9671.4	10636.7	11430.6	11632.7	11379.6	10865.3	10700.0	10765.3
60°	7269.4	7342.9	7838.8	8785.7	10128.6	11363.3	11893.9	11773.5	11320.4	11187.8	11222.5
62.5°	5695.9	5689.8	6304.1	7465.3	9118.4	11032.7	12087.8	12153.1	11769.4	11602.1	11655.1
65°	3691.8	3710.2	4304.1	5555.1	7593.9	10191.8	12130.6	12636.8	12210.2	11957.2	11995.9
66°	2969.4	3024.5	3528.6	4681.6	6816.3	9640.8	12002.1	12779.6	12344.9	12038.8	12057.2
67.5°	2191.8	2181.6	2595.9	3485.7	5442.9	8593.9	11600.0	12869.4	12498.0	12112.3	12120.4
70°	1251.0	1249.0	1395.9	1914.3	3200.0	6051.0	9777.6	12438.8	12808.2	12377.6	12355.1
72.5°	914.3	908.2	928.6	1057.1	1561.2	3055.1	6744.9	10871.4	12649.0	12334.7	12271.4
75°	767.3	763.3	759.2	775.5	875.5	1383.7	3579.6	7820.4	10975.5	11577.6	11512.3
77.5°	626.5	626.5	628.6	624.5	628.6	728.6	1483.7	4191.8	6683.7	7461.2	7642.9
80°	489.8	487.8	522.4	508.2	475.5	467.3	657.1	1349.0	2218.4	2206.1	1820.4
82.5°	361.2	336.7	398.0	387.8	351.0	298.0	383.7	575.5	740.8	481.6	357.1
85°	228.6	226.5	281.6	257.1	214.3	140.8	183.7	246.9	306.1	185.7	151.0
87.5°	40.8	38.8	89.8	65.3	65.3	40.8	51.0	67.3	100.0	69.4	51.0
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)