

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: P648525

Luminaire Tested: **GALN-SA7B-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26327.6 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

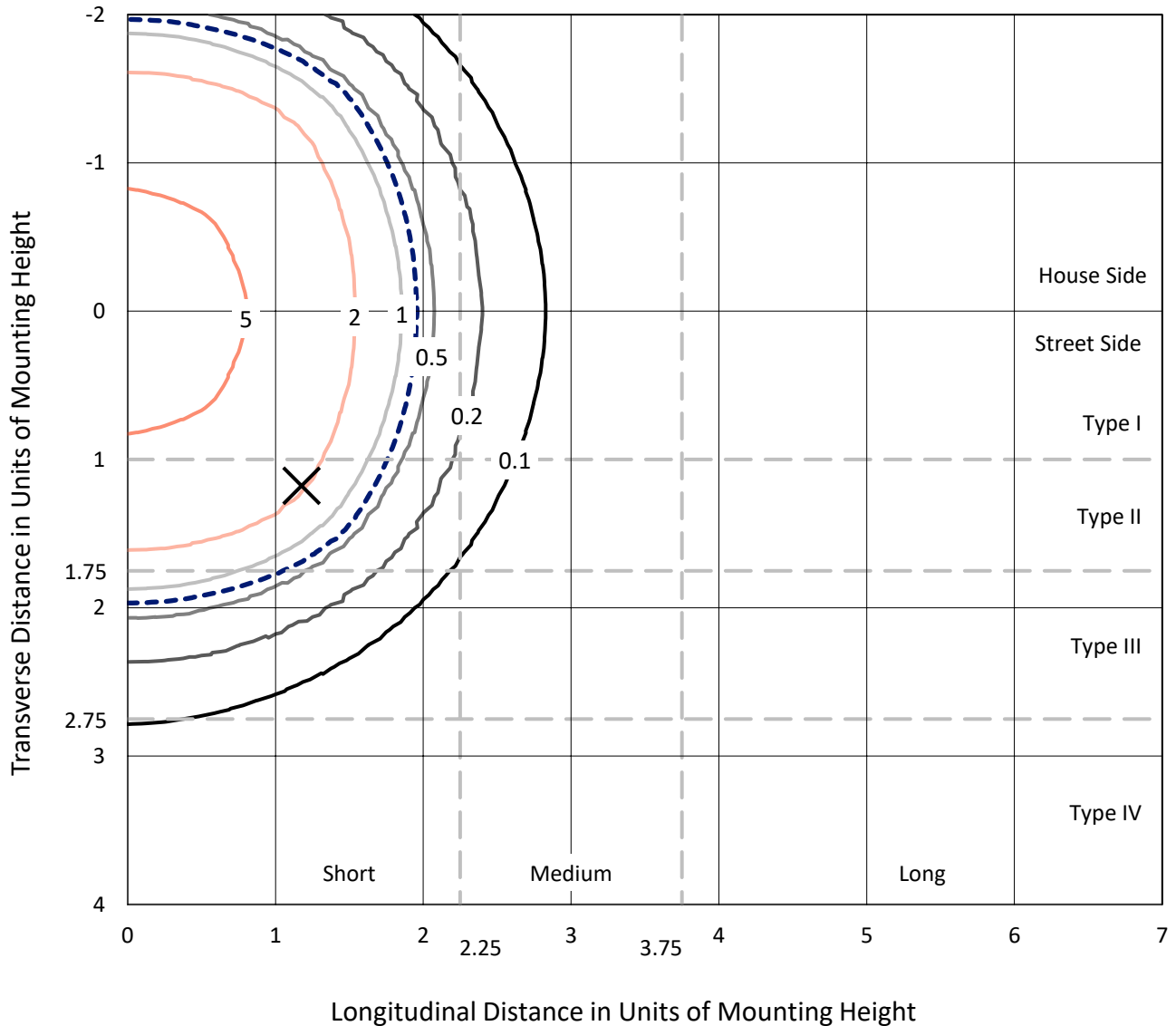
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

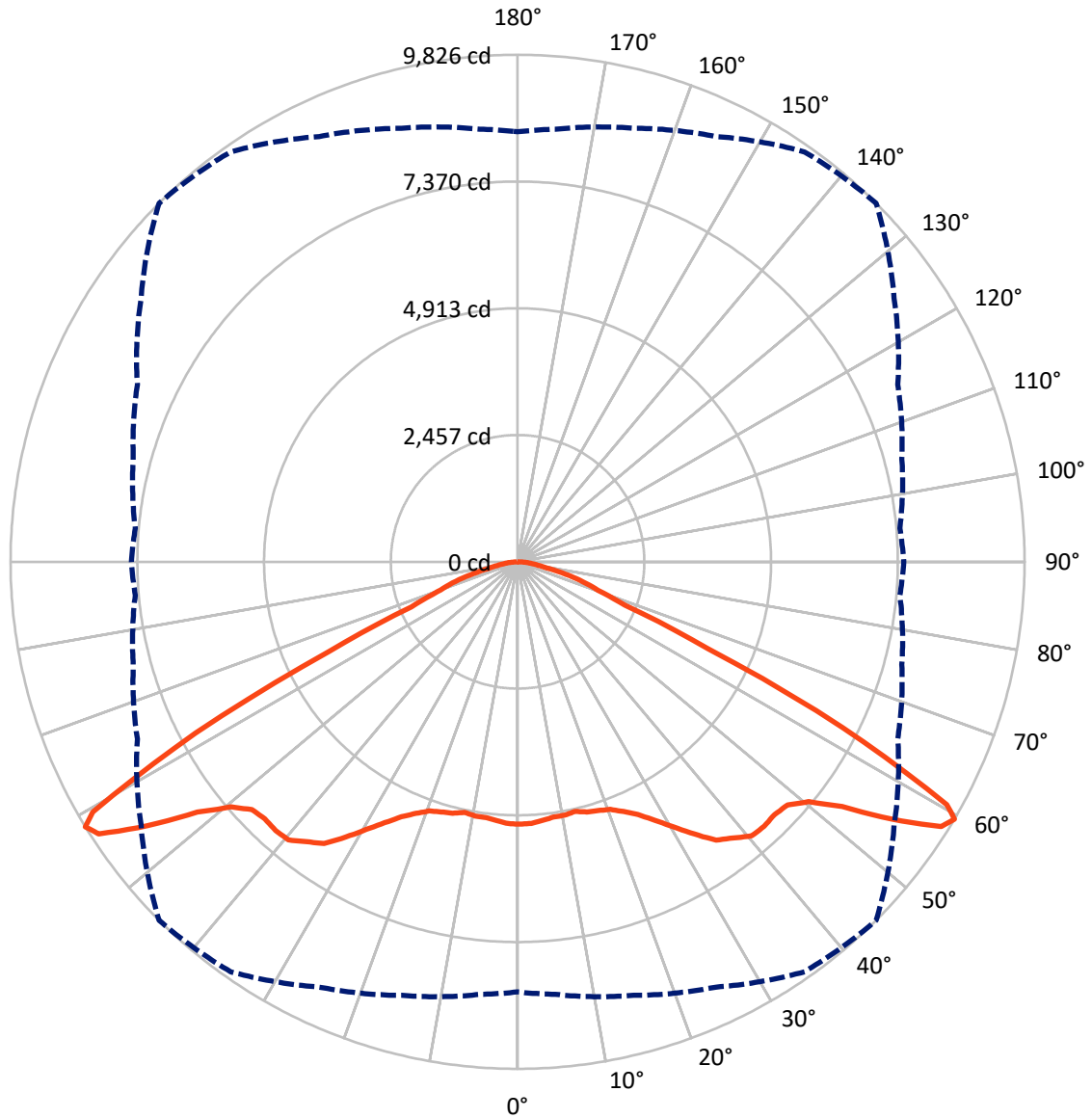
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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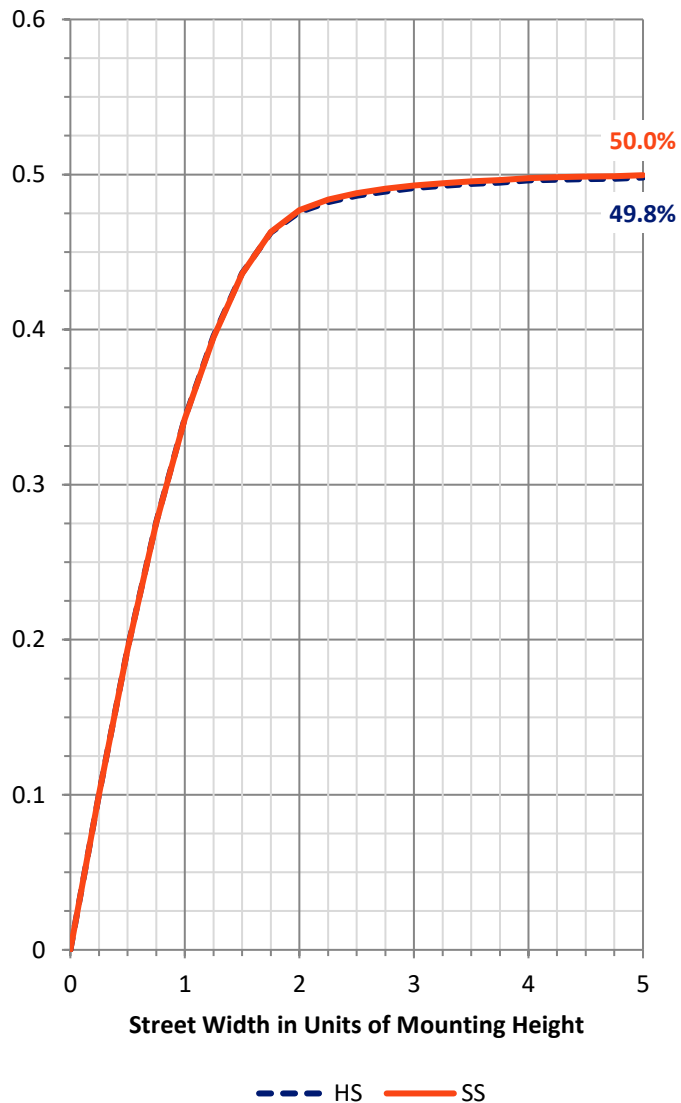
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13163.8	0.0	13163.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13163.8	0.0	13163.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26327.6	0.0	26327.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.4	1.8
10°-20°	1425.6	5.4
20°-30°	2489.2	9.5
30°-40°	3975.6	15.1
40°-50°	5415.6	20.6
50°-60°	7323.4	27.8
60°-70°	4016.1	15.3
70°-80°	1027.5	3.9
80°-90°	175.2	0.7
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°	26327.6	100.0
0°-180°	26327.6	100.0

**Coefficient of Utilization**

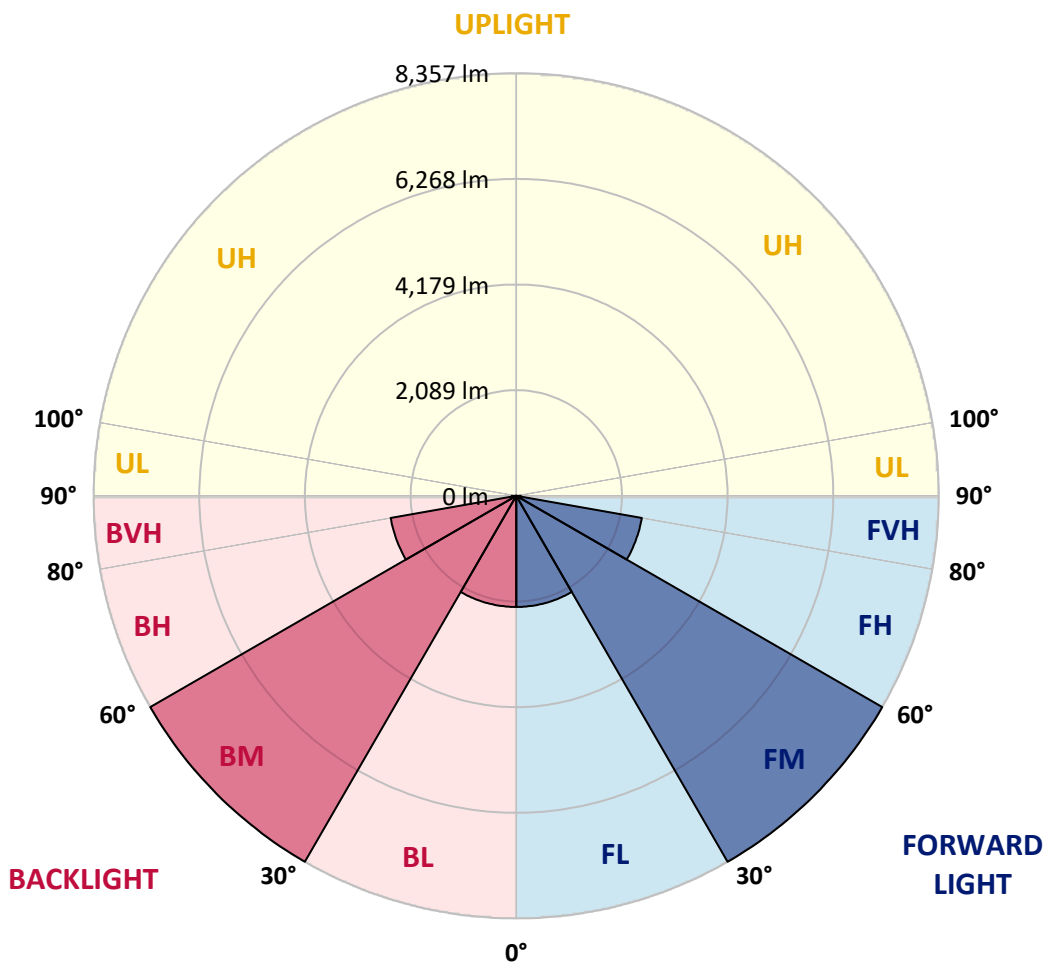


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.1	8.3			
FM (30°-60°)	8357.3	31.7			
FH (60°-80°)	2521.8	9.6			G2/5000
FVH (80°-90°)	87.6	0.3			G1/100
BL (0°-30°)	2197.1	8.3	B3/2500		
BM (30°-60°)	8357.3	31.7	B4/8500		
BH (60°-80°)	2521.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	87.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5085.2	5085.2	5085.2	5085.2	5085.2	5085.2	5085.2	5085.2	5085.2	5085.2	5085.2
2.5°	5054.9	5092.0	5065.0	5088.6	5085.2	5075.1	5058.3	5048.1	5034.6	5054.9	5021.1
5°	5034.6	5065.0	5095.4	5054.9	5054.9	5034.6	5024.5	5004.2	5004.2	5000.9	4997.5
7.5°	5068.4	5038.0	5024.5	5031.2	5038.0	4994.1	5024.5	4984.0	4950.3	4973.9	5000.9
10°	5038.0	5051.5	5000.9	5024.5	4987.4	4994.1	4973.9	5000.9	4963.8	4963.8	4963.8
12.5°	5068.4	5031.2	5048.1	5031.2	5021.1	4963.8	4990.8	4960.4	4957.0	4990.8	4960.4
15°	5129.1	5068.4	5054.9	5021.1	5031.2	5031.2	5004.2	5007.6	4970.5	4990.8	4997.5
17.5°	5108.8	5075.1	5065.0	5024.5	5058.3	5068.4	5017.8	4984.0	5007.6	5004.2	5000.9
20°	5125.8	5139.2	5129.1	5135.9	5149.3	5122.4	5075.1	5027.9	4997.5	5041.3	5038.0
22.5°	5233.7	5220.2	5213.4	5206.7	5230.4	5257.3	5193.2	5118.9	5118.9	5149.3	5162.9
25°	5321.4	5318.1	5314.7	5345.1	5426.0	5426.0	5345.1	5250.6	5227.0	5247.2	5230.4
27.5°	5449.7	5486.8	5473.3	5527.3	5645.4	5672.4	5564.4	5453.0	5388.9	5365.3	5395.7
30°	5743.2	5699.4	5709.5	5766.9	5871.5	5959.2	5793.9	5675.7	5588.0	5584.7	5598.1
32.5°	5939.0	5972.7	6003.1	6057.1	6222.4	6289.9	6090.8	5898.5	5844.5	5814.1	5824.2
35°	6330.4	6300.0	6293.3	6347.2	6512.6	6623.9	6374.2	6205.5	6134.6	6202.1	6202.1
37.5°	6701.5	6617.2	6553.1	6623.9	6775.8	6789.3	6576.7	6485.6	6448.5	6526.1	6522.7
40°	6877.0	6870.3	6721.8	6762.3	6964.8	6985.0	6785.9	6678.0	6671.2	6772.4	6873.6
42.5°	7059.3	6995.2	6846.7	6873.6	6998.5	7005.3	6816.3	6785.9	6860.2	6958.1	6964.8
45°	7089.6	7035.6	6941.1	6873.6	6964.8	6985.0	6873.6	6893.9	6900.7	7018.7	7018.7
47.5°	7150.4	7143.6	7089.6	7039.0	7055.8	7039.0	6968.2	6998.5	7099.8	7157.1	7130.2
50°	7319.1	7248.2	7302.2	7258.3	7261.7	7309.0	7244.9	7275.2	7255.0	7204.4	7170.6
52.5°	7690.3	7656.6	7703.8	7734.2	7767.9	7875.9	7801.7	7639.7	7487.8	7352.8	7349.5
55°	8233.6	8257.2	8348.3	8503.5	8635.1	8807.2	8449.5	8061.5	7818.5	7605.9	7619.4
57.5°	8746.5	8729.6	8854.5	9208.8	9593.5	9681.2	8979.3	8425.9	8031.1	7896.1	7838.8
59°	8334.8	8415.8	8699.2	9094.0	9698.1	9826.3	8908.4	8128.9	7710.5	7437.2	7484.5
60°	7686.9	7717.2	7970.3	8520.4	9337.0	9556.4	8432.7	7670.0	7113.2	6954.7	7025.5
62.5°	5432.8	5409.2	5591.4	6040.2	6772.4	7069.4	6269.6	5733.1	5382.2	5206.7	5247.2
65°	2888.5	2996.5	3070.7	3350.8	3738.8	4052.7	3722.0	3489.1	3293.5	3148.3	3144.9
67.5°	1950.4	1936.9	1953.8	2017.9	2149.5	2237.3	2230.5	2112.4	2095.5	2068.5	2098.9
70°	1643.4	1636.6	1606.2	1606.2	1633.2	1653.5	1677.1	1690.6	1717.6	1751.3	1748.0
72.5°	1332.9	1316.0	1295.8	1285.7	1319.4	1329.5	1359.9	1373.4	1397.0	1393.7	1424.0
75°	880.7	880.7	904.4	931.3	941.5	961.7	965.0	1005.6	1005.6	1012.3	985.3
77.5°	492.7	479.2	496.0	523.0	546.7	583.8	620.9	651.3	668.1	661.4	661.4
80°	286.8	286.8	303.7	334.0	364.4	398.2	425.2	448.8	465.7	458.9	445.4
82.5°	178.8	178.8	195.8	226.1	249.7	270.0	307.1	337.5	357.7	350.9	334.0
85°	91.1	91.1	111.3	131.6	162.0	175.5	172.1	158.6	155.2	138.4	138.4
87.5°	23.6	23.6	33.7	37.1	30.4	33.7	33.7	33.7	33.7	33.7	37.1
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)