

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: P648442

Luminaire Tested: **GALN-SA5B-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22273.2 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

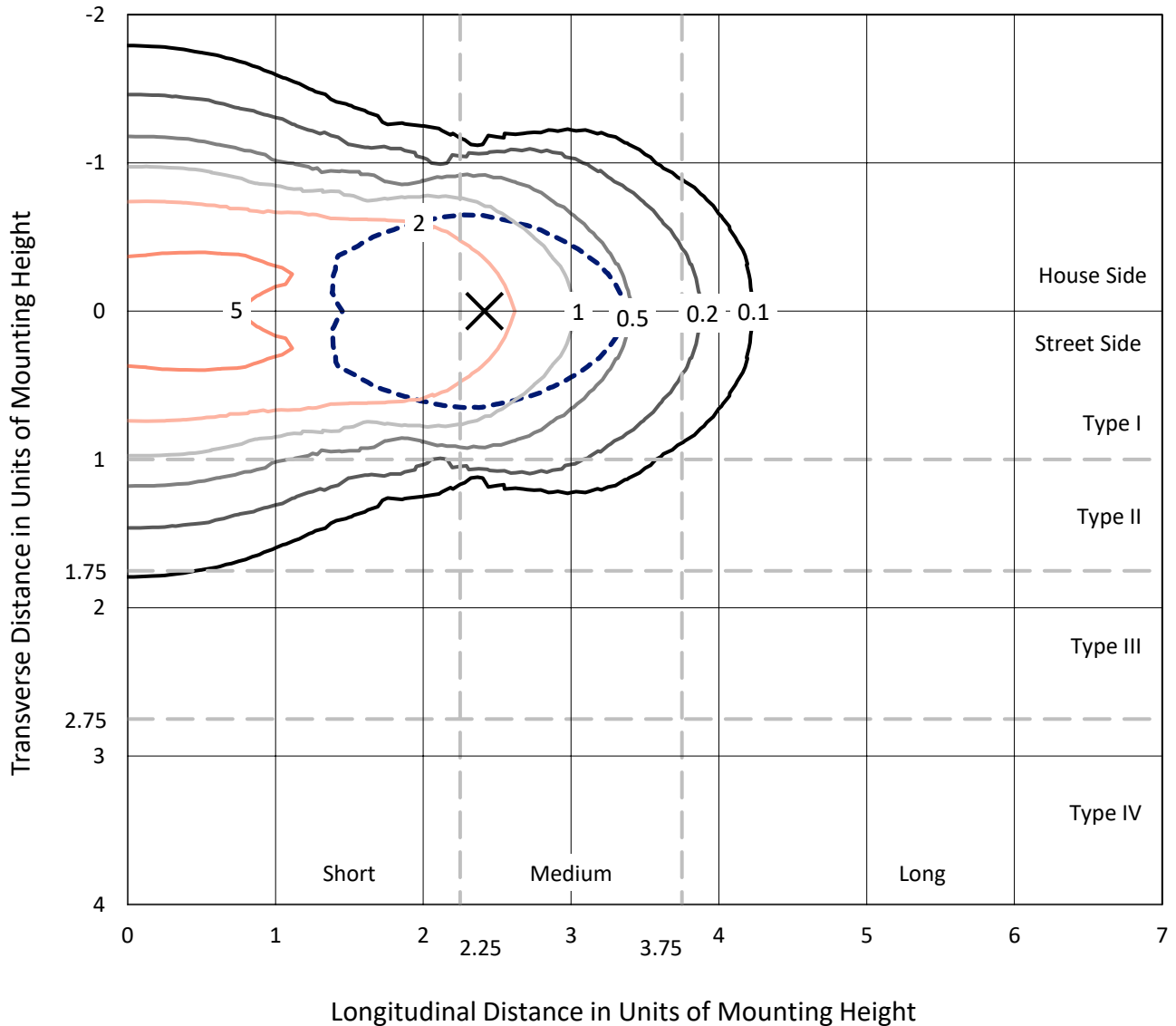
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

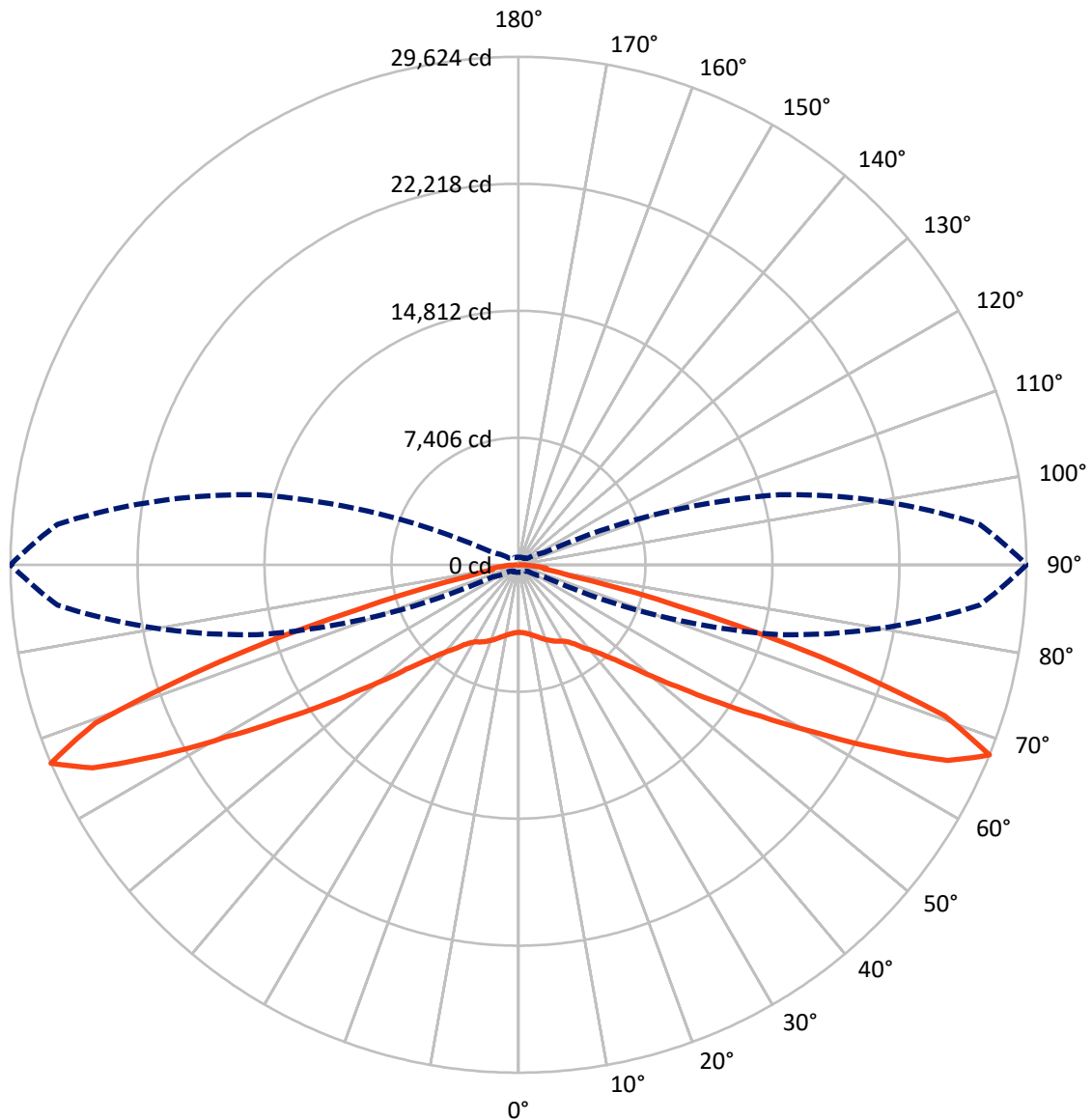
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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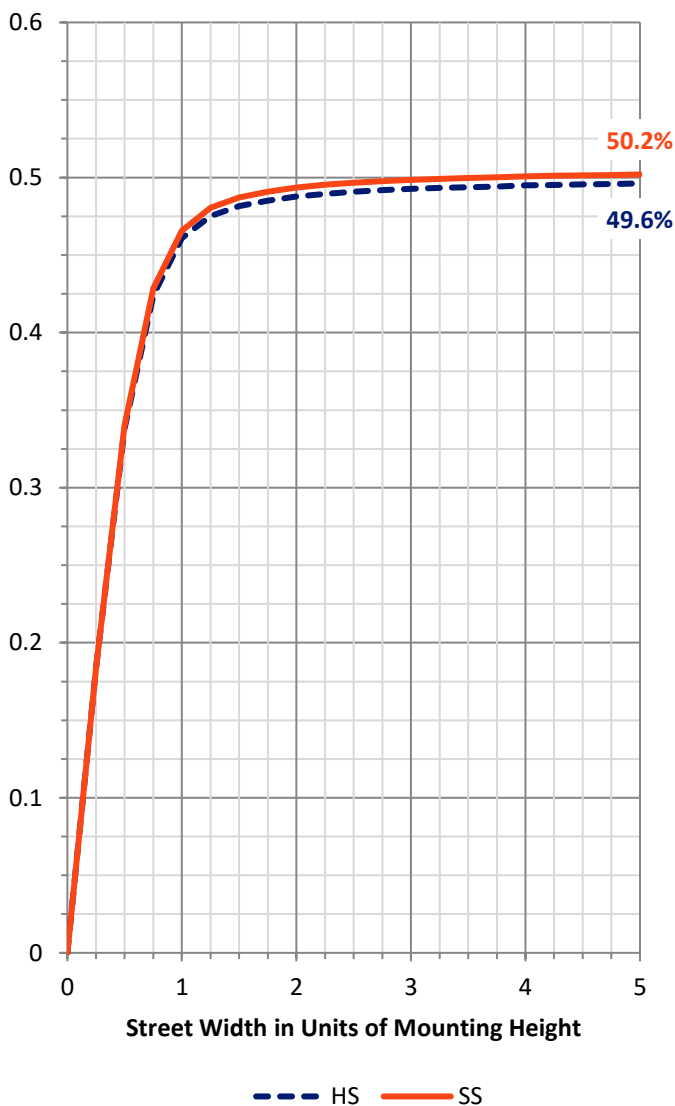
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11136.6	0.0	11136.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11136.6	0.0	11136.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22273.2	0.0	22273.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.1	1.8
10°-20°	1257.8	5.6
20°-30°	2105.2	9.5
30°-40°	2852.0	12.8
40°-50°	3612.5	16.2
50°-60°	4512.9	20.3
60°-70°	5304.8	23.8
70°-80°	2029.3	9.1
80°-90°	205.6	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°	22273.2	100.0
0°-180°	22273.2	100.0

**Coefficient of Utilization**



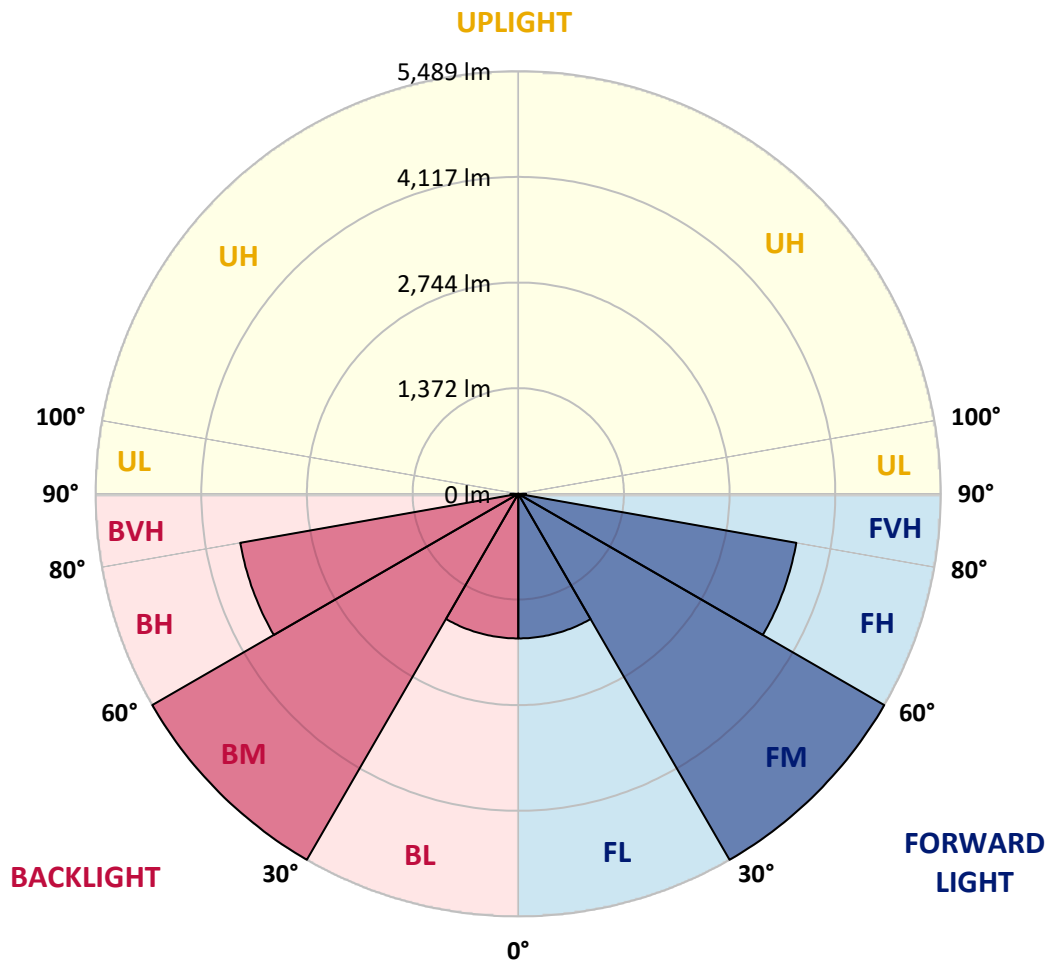
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.1	8.4			
FM (30°-60°)	5488.7	24.6			
FH (60°-80°)	3667.0	16.5			G2/5000
FVH (80°-90°)	102.8	0.5			G2/225
BL (0°-30°)	1878.1	8.4	B3/2500		
BM (30°-60°)	5488.7	24.6	B4/8500		
BH (60°-80°)	3667.0	16.5	B4/5000		G4/5000
BVH (80°-90°)	102.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
2.5°	3993.6	3991.2	3992.4	3991.2	3994.9	3992.4	3977.6	3965.3	3955.4	3956.7	3952.9
5°	4078.7	4080.0	4081.2	4075.0	4083.7	4078.7	4055.3	4035.6	4015.9	4008.4	4006.0
7.5°	4149.0	4155.2	4158.9	4165.1	4179.9	4179.9	4167.5	4139.2	4096.0	4071.3	4070.1
10°	4219.4	4224.3	4235.3	4255.1	4279.7	4303.2	4298.3	4260.0	4204.6	4162.6	4152.7
12.5°	4244.0	4250.1	4287.2	4343.9	4399.4	4445.0	4445.0	4414.2	4342.7	4278.5	4260.0
15°	4157.7	4168.8	4235.3	4356.2	4501.8	4601.7	4623.8	4580.7	4504.2	4405.5	4383.4
17.5°	3986.3	4013.3	4110.8	4289.7	4531.4	4738.6	4802.7	4781.7	4683.0	4557.3	4531.4
20°	3802.5	3832.1	3935.7	4172.5	4506.7	4818.7	5005.0	5009.9	4887.8	4705.3	4667.1
22.5°	3600.2	3622.4	3755.6	4033.1	4432.7	4837.2	5178.9	5264.0	5098.7	4853.3	4799.0
25°	3373.2	3397.9	3537.3	3837.0	4293.3	4816.3	5337.9	5525.5	5319.5	5011.1	4942.1
27.5°	3156.2	3166.1	3315.3	3619.9	4109.6	4762.0	5455.2	5765.9	5563.7	5141.9	5054.3
30°	2947.8	2971.2	3103.1	3404.1	3898.6	4656.0	5556.3	6039.7	5826.4	5278.8	5166.5
32.5°	2727.0	2755.3	2898.4	3203.0	3687.8	4496.8	5617.9	6339.5	6192.7	5500.8	5381.2
35°	2514.8	2533.3	2677.6	2973.6	3481.8	4311.8	5629.1	6677.4	6665.1	5837.5	5678.4
37.5°	2297.7	2324.9	2470.4	2754.1	3263.5	4115.8	5573.6	7036.4	7234.9	6305.0	6133.5
40°	2089.3	2112.8	2255.8	2541.9	3015.6	3876.5	5441.6	7364.4	7899.7	6785.9	6543.0
42.5°	1862.4	1868.6	2025.2	2316.3	2772.6	3599.0	5251.7	7656.7	8641.0	7431.0	7128.8
45°	1604.6	1620.7	1766.1	2052.3	2493.9	3288.1	4993.9	7898.4	9580.7	8325.2	7913.2
47.5°	1346.8	1360.4	1493.6	1776.0	2189.2	2931.7	4596.8	8110.5	10545.2	9461.1	8920.9
50°	1095.3	1102.6	1211.1	1461.5	1846.3	2556.7	4104.6	8178.4	11635.5	11069.4	10380.0
52.5°	865.8	876.9	959.6	1155.6	1480.0	2113.9	3573.1	8010.6	12908.4	12976.2	12004.3
55°	701.8	705.5	767.2	911.5	1156.9	1650.3	2931.7	7543.3	14277.4	15419.5	14180.0
57.5°	604.3	606.8	641.4	721.5	890.5	1244.4	2274.3	6658.9	15507.0	18282.1	16688.6
60°	548.9	550.1	569.8	616.7	705.5	954.6	1629.3	5410.8	16720.7	21467.9	19806.5
62.5°	514.3	514.3	527.9	553.8	597.0	732.7	1180.3	3903.6	17552.0	24700.5	23649.7
65°	481.0	481.0	490.9	509.3	532.8	599.4	871.9	2545.7	17531.0	27055.0	27515.0
67.5°	442.8	442.8	450.1	468.7	482.2	515.5	673.4	1667.5	15747.5	27003.2	29624.1
70°	397.1	397.1	407.0	423.1	434.2	455.1	531.6	1140.8	11568.9	23056.5	26345.8
72.5°	351.5	352.7	358.9	375.0	383.6	395.9	441.5	799.2	7096.7	15699.5	18421.5
75°	300.9	303.4	309.6	325.6	333.0	337.9	372.5	569.8	3590.3	8464.5	9637.5
77.5°	243.0	247.9	251.6	268.9	273.8	281.2	307.1	411.9	1576.3	3041.5	3068.6
80°	177.6	183.8	194.9	210.9	214.6	219.6	234.4	292.3	714.1	1388.7	1508.4
82.5°	130.8	139.4	125.8	146.7	146.7	140.6	165.3	196.1	328.1	1375.2	1645.3
85°	71.6	72.7	65.4	75.2	80.2	78.9	87.5	96.2	159.1	917.6	946.0
87.5°	17.3	18.5	19.7	23.4	28.3	28.3	30.9	27.2	51.8	297.2	170.2
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)