

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: P459471

Luminaire Tested: **GALN-SA9B-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459471  
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-SA9B-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 50150 lumens  
Efficiency: N/A  
Efficacy: 137.8 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

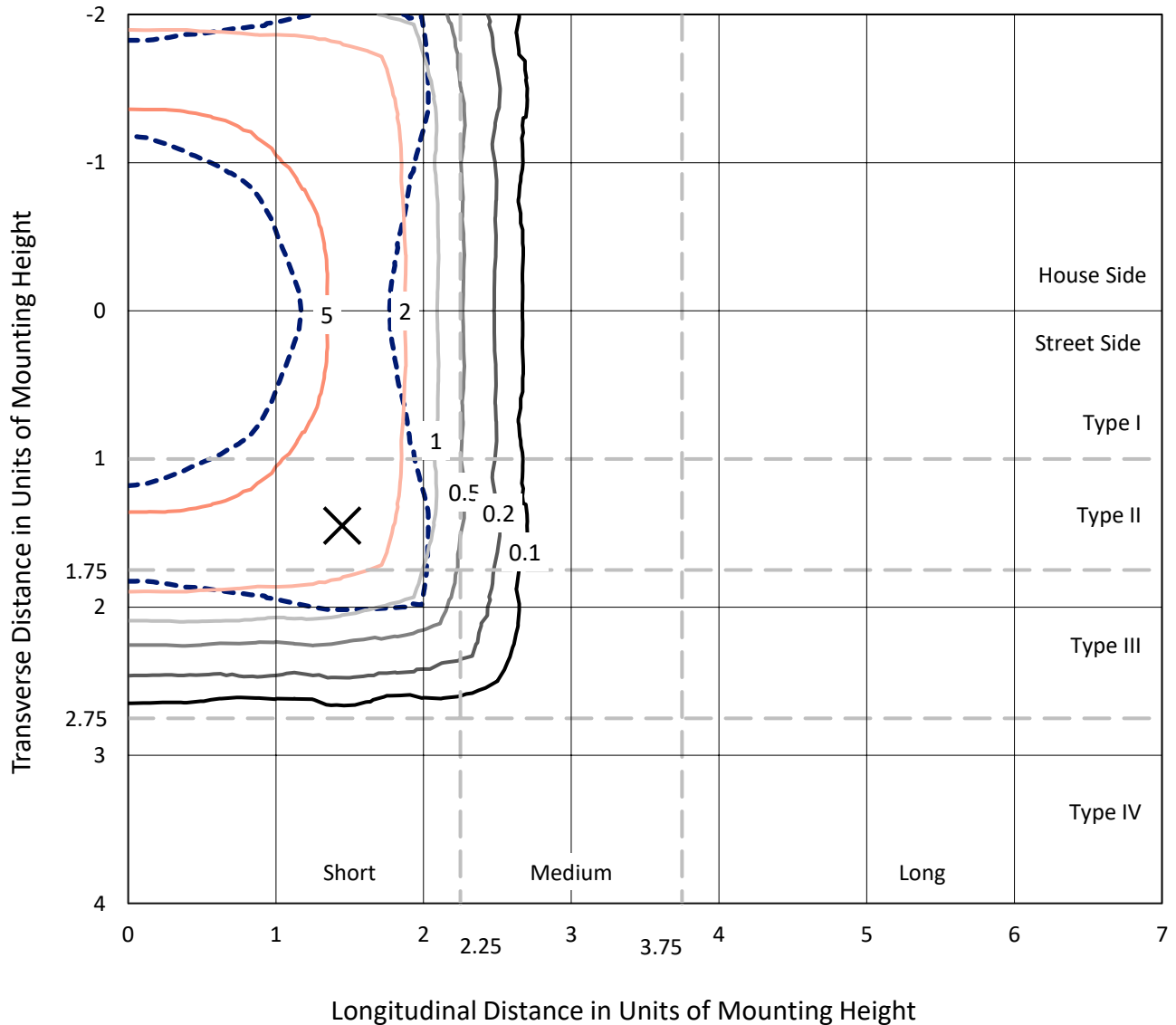
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

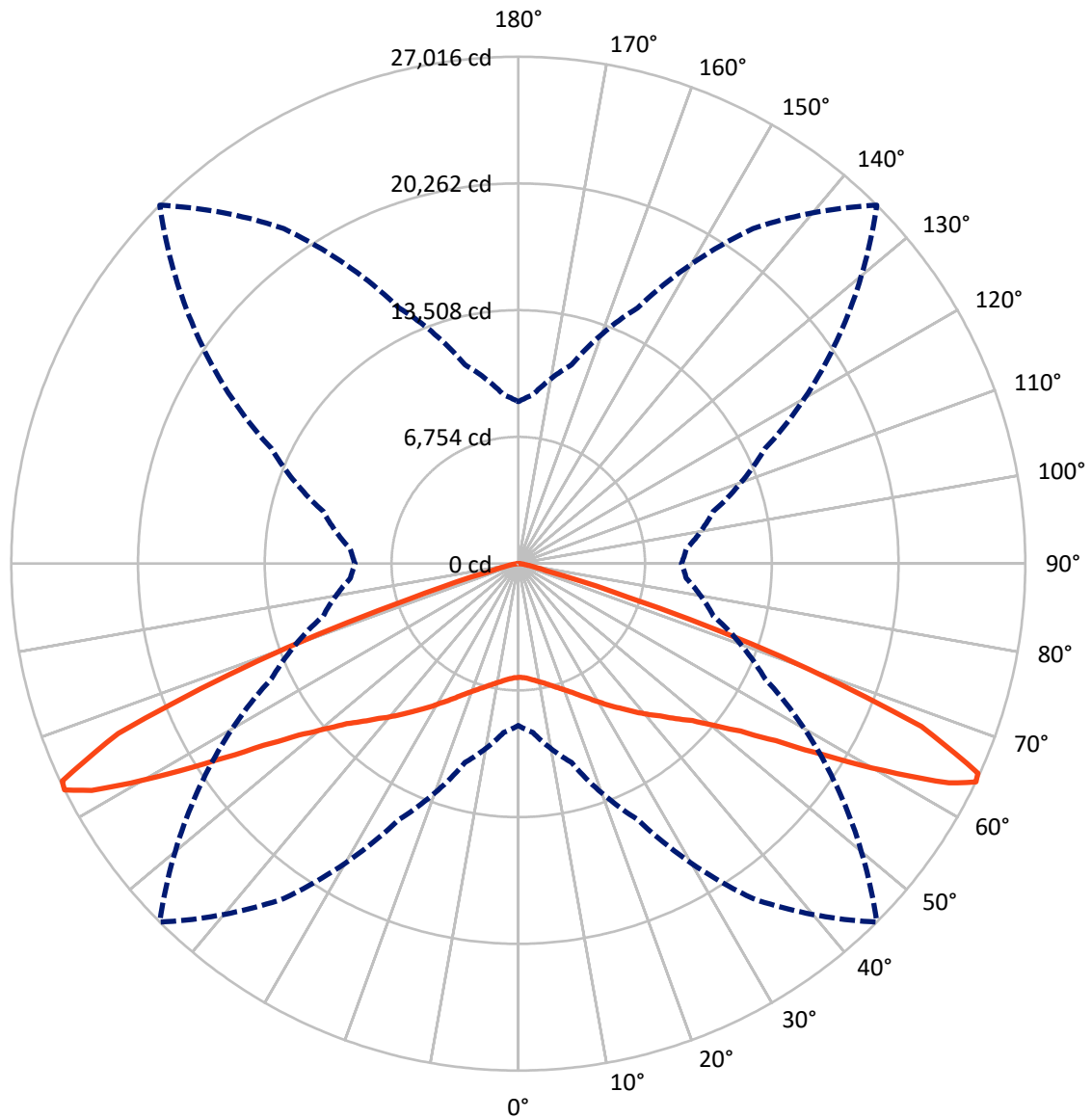
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
<b>House Side</b>	Lumens	25075.0	0.0	25075.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25075.0	0.0	25075.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50150.0	0.0	50150.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.5	1.2
10°-20°	1920.9	3.8
20°-30°	3629.9	7.2
30°-40°	6011.5	12.0
40°-50°	9384.9	18.7
50°-60°	14508.9	28.9
60°-70°	12510.8	24.9
70°-80°	1417.8	2.8
80°-90°	169.9	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°	50150.0	100.0
0°-180°	50150.0	100.0

**Coefficient of Utilization**



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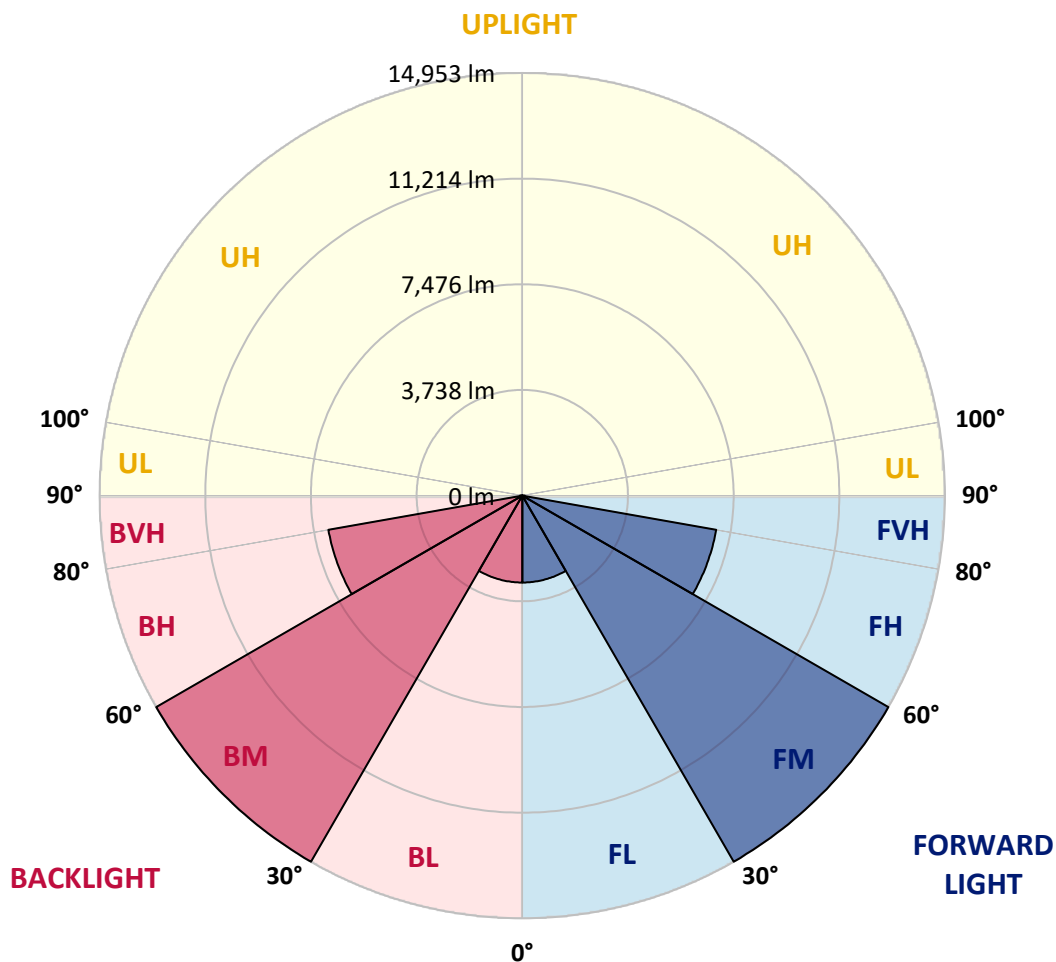
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3073.1	6.1			
FM (30°-60°)	14952.6	29.8			
FH (60°-80°)	6964.3	13.9			G3/7500
FVH (80°-90°)	84.9	0.2			G1/100
BL (0°-30°)	3073.1	6.1	B4/5000		
BM (30°-60°)	14952.6	29.8	B5		
BH (60°-80°)	6964.3	13.9	B5		G3/7500
BVH (80°-90°)	84.9	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°	6061.5	6061.5	6061.5	6061.5	6061.5	6061.5	6061.5	6061.5	6061.5	6061.5	6061.5
2.5°	6085.4	6098.7	6088.0	6085.4	6082.7	6082.7	6082.7	6085.4	6096.0	6104.0	6098.7
5°	6162.4	6173.0	6167.7	6165.1	6162.4	6165.1	6159.8	6157.1	6165.1	6165.1	6162.4
7.5°	6258.0	6271.3	6266.0	6271.3	6274.0	6276.6	6263.3	6252.7	6250.1	6258.0	6252.7
10°	6388.2	6398.8	6401.5	6404.1	6409.4	6406.8	6390.8	6372.2	6369.6	6366.9	6364.3
12.5°	6534.3	6542.2	6544.9	6555.5	6563.5	6566.2	6547.6	6531.6	6505.1	6510.4	6499.7
15°	6699.0	6714.9	6712.2	6728.2	6749.4	6754.7	6736.1	6709.6	6685.7	6672.4	6664.4
17.5°	6900.8	6911.5	6906.1	6922.1	6948.6	6961.9	6946.0	6911.5	6887.6	6858.3	6842.4
20°	7139.9	7158.5	7163.8	7163.8	7187.7	7201.0	7177.1	7166.5	7129.3	7108.0	7094.7
22.5°	7410.8	7418.8	7434.7	7450.7	7474.6	7469.3	7461.3	7445.4	7410.8	7392.2	7371.0
25°	7716.3	7724.3	7764.1	7798.6	7806.6	7801.3	7790.7	7782.7	7750.8	7708.3	7692.4
27.5°	8072.2	8088.2	8141.3	8173.2	8173.2	8175.8	8154.6	8181.1	8112.1	8061.6	8056.3
30°	8518.5	8529.1	8574.2	8606.1	8590.2	8576.9	8571.6	8598.2	8523.8	8433.5	8412.2
32.5°	8959.4	8996.6	9036.4	9105.5	9049.7	9025.8	9020.5	9039.1	8954.1	8853.1	8823.9
35°	9432.2	9458.8	9533.1	9591.6	9541.1	9485.3	9509.2	9567.7	9466.7	9331.3	9326.0
37.5°	9955.5	9979.4	10075.0	10136.1	10098.9	10003.3	10043.1	10112.2	10011.3	9843.9	9809.4
40°	10500.0	10550.5	10670.0	10733.7	10672.7	10545.2	10619.5	10693.9	10603.6	10409.7	10332.7
42.5°	11110.9	11190.6	11363.3	11395.1	11278.3	11105.6	11235.8	11355.3	11291.5	11068.4	11039.2
45°	11825.4	11873.3	12085.8	12154.8	11992.8	11777.6	11939.7	12157.5	12109.7	11852.0	11796.2
47.5°	12625.0	12670.1	12890.6	12994.2	12789.7	12500.1	12792.3	13076.5	13047.3	12771.1	12744.5
50°	13570.6	13581.2	13886.7	14003.5	13799.0	13549.3	13809.6	14162.9	14046.0	13692.8	13687.4
52.5°	14606.5	14619.8	15004.9	15230.7	15116.5	14834.9	15143.1	15358.2	15060.7	14598.5	14564.0
55°	15504.3	15570.7	16096.6	16696.9	16853.7	16649.1	16742.1	16641.2	15908.0	15259.9	15159.0
57.5°	15870.9	16001.0	16800.5	17921.4	18941.4	19244.2	18527.1	17565.5	16245.4	15329.0	15230.7
60°	14975.7	15116.5	16356.9	18484.6	21087.6	22402.5	20386.4	17722.2	15477.7	14189.5	14035.4
62.5°	11992.8	12032.6	13857.4	17159.1	22338.7	25744.0	21170.0	16386.2	13243.9	11493.4	11432.3
64°	8630.0	9039.1	10972.8	15044.8	21791.5	27016.3	20718.4	14513.5	10757.6	8986.0	8699.1
65°	6454.6	6566.2	8845.2	12848.1	20827.3	26920.7	19841.9	12723.2	8908.9	6876.9	6558.2
67.5°	2438.4	2451.7	3264.5	6404.1	14827.0	23162.1	15143.1	6922.1	3753.2	2714.6	2616.4
70°	1012.0	1030.6	1198.0	2154.2	6372.2	14872.1	7301.9	2496.8	1373.3	1113.0	1097.0
72.5°	741.1	751.7	802.2	956.2	1960.3	6106.6	2401.2	1059.8	804.8	719.8	711.9
75°	581.7	587.0	624.2	703.9	913.7	1692.0	998.7	727.8	613.6	552.5	547.2
77.5°	443.6	456.9	483.4	536.6	613.6	802.2	661.4	544.5	472.8	422.3	414.4
80°	305.5	321.4	371.9	393.1	411.7	520.6	451.6	411.7	369.2	308.1	289.5
82.5°	188.6	199.2	249.7	268.3	260.3	292.2	289.5	294.8	263.0	191.2	178.0
85°	98.3	103.6	135.5	140.8	130.2	119.5	148.7	172.7	162.0	108.9	106.2
87.5°	21.2	23.9	29.2	26.6	29.2	29.2	37.2	55.8	58.4	37.2	34.5
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)