

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: P534283

Luminaire Tested: **GALN-SA9D-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-735-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34077 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

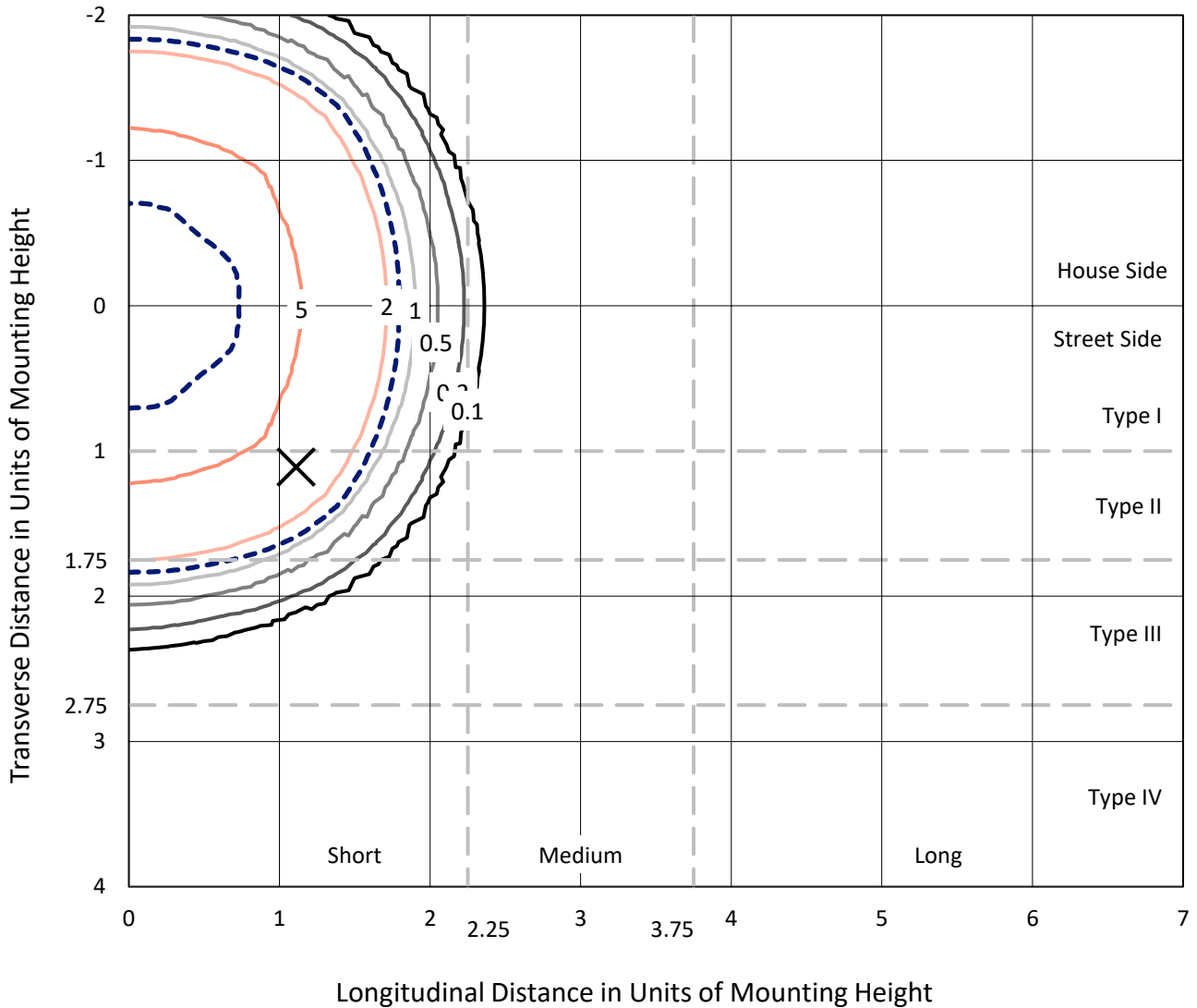
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

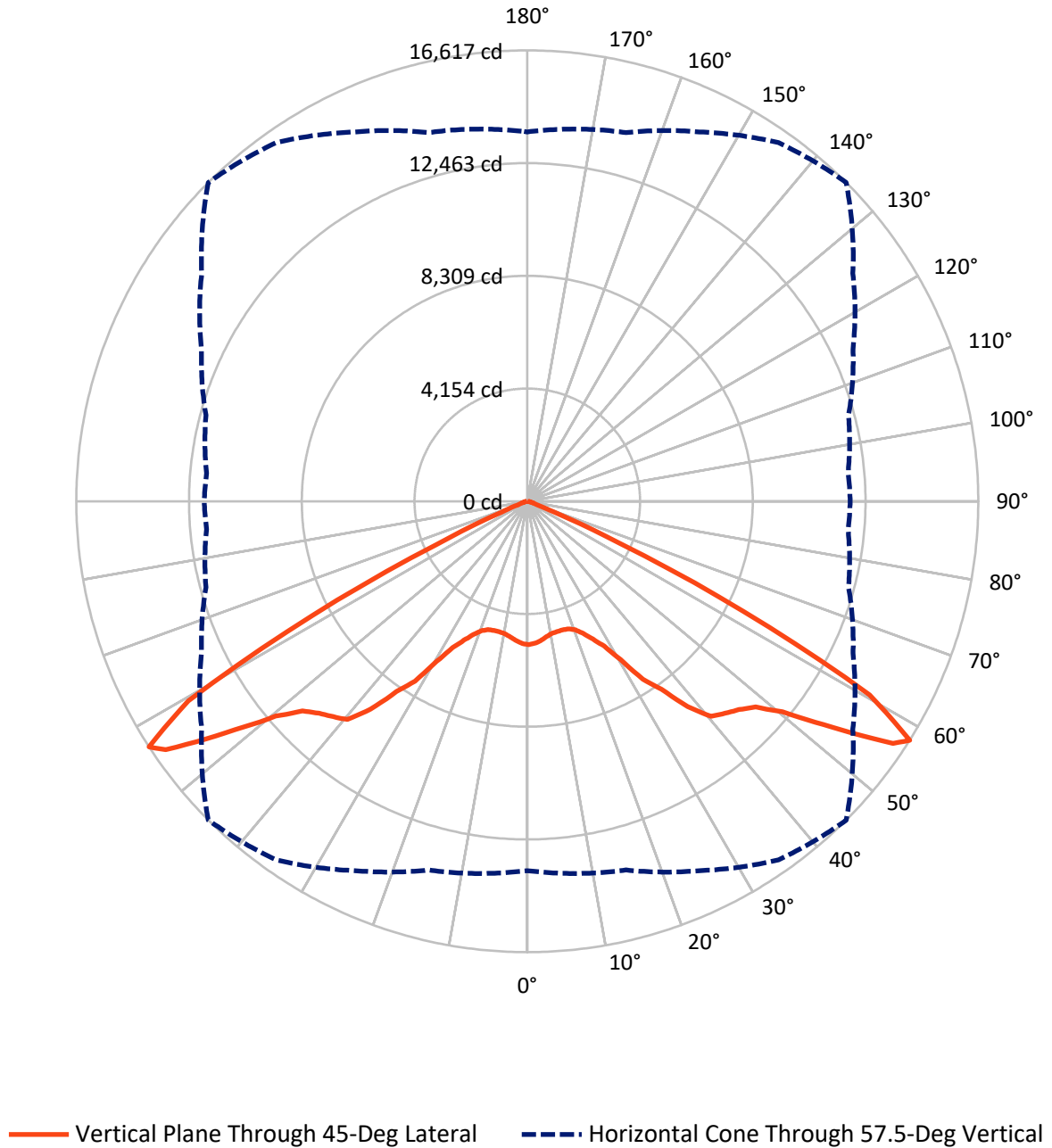
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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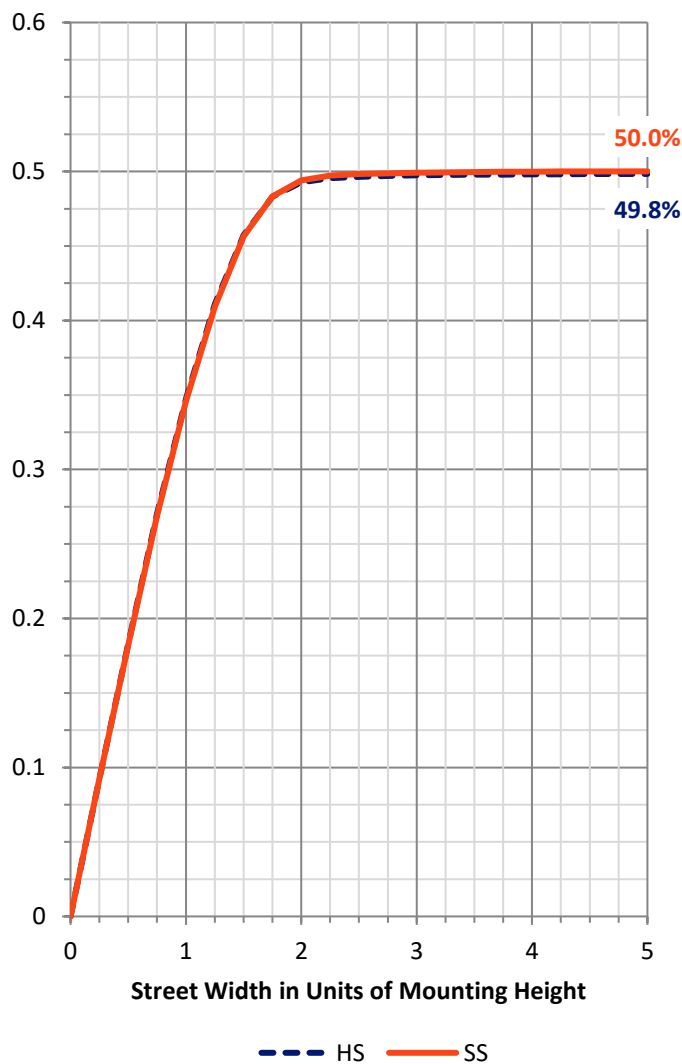
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17038.5	0.0	17038.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17038.5	0.0	17038.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34077.0	0.0	34077.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.7	1.4
10°-20°	1404.0	4.1
20°-30°	2591.6	7.6
30°-40°	5096.6	15.0
40°-50°	8301.0	24.4
50°-60°	11838.3	34.7
60°-70°	4098.7	12.0
70°-80°	219.9	0.6
80°-90°	41.3	0.1
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°	34077.0	100.0
0°-180°	34077.0	100.0

**Coefficient of Utilization**



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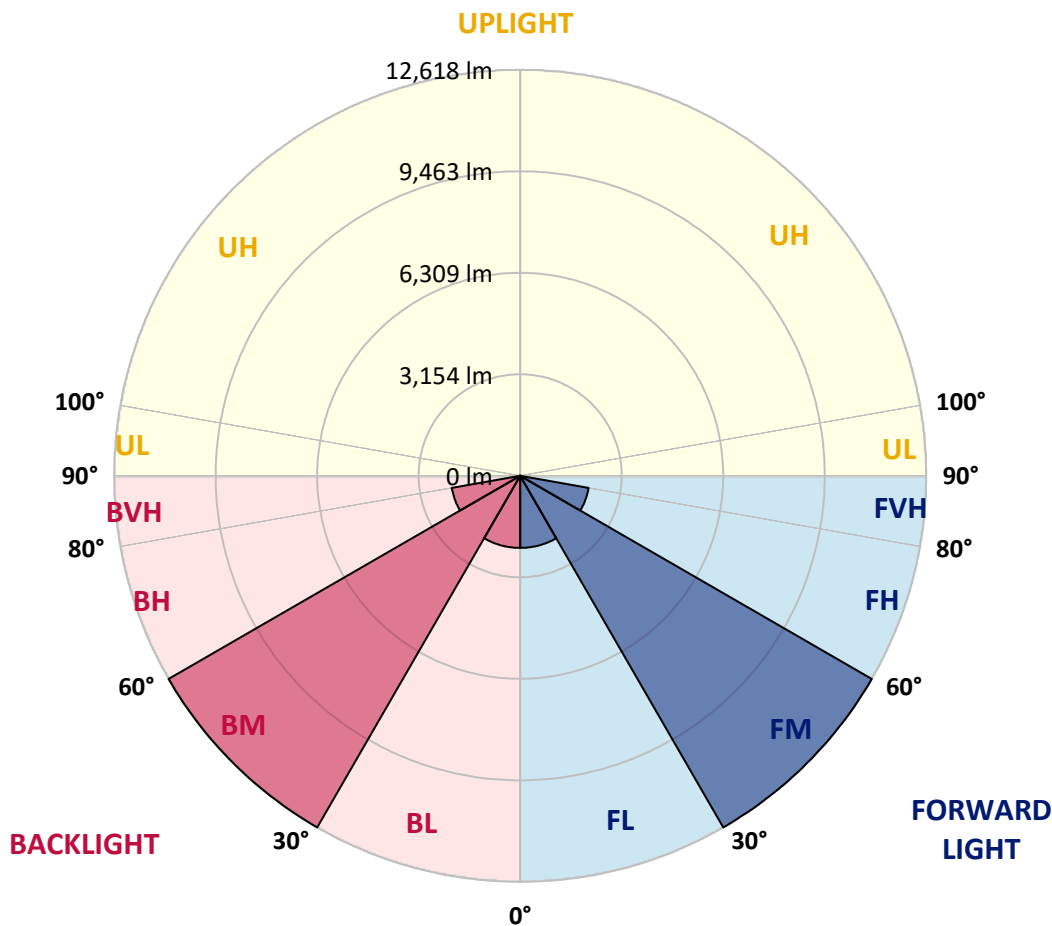
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.6	6.6			
FM (30°-60°)	12617.9	37.0			
FH (60°-80°)	2159.3	6.3			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	2240.6	6.6	B3/2500		
BM (30°-60°)	12617.9	37.0	B5		
BH (60°-80°)	2159.3	6.3	B3/2500		G2/5000
BVH (80°-90°)	20.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7
2.5°	5271.5	5299.9	5264.4	5250.2	5243.1	5243.1	5221.8	5221.8	5214.7	5221.8	5193.3
5°	5186.2	5214.7	5214.7	5207.6	5164.9	5157.8	5136.5	5122.3	5129.4	5101.0	5122.3
7.5°	5101.0	5122.3	5093.9	5086.8	5072.6	5044.1	5037.0	4973.1	4980.2	4980.2	4994.4
10°	5086.8	5079.7	5037.0	5001.5	4958.9	4951.8	4930.5	4916.3	4916.3	4909.2	4930.5
12.5°	5086.8	5051.3	5044.1	4966.0	4895.0	4923.4	4866.5	4831.0	4880.7	4895.0	4923.4
15°	5079.7	5115.2	4994.4	4958.9	4909.2	4916.3	4866.5	4831.0	4859.4	4873.6	4895.0
17.5°	5122.3	5101.0	5065.5	4994.4	4973.1	4944.7	4880.7	4852.3	4852.3	4887.9	4895.0
20°	5236.0	5179.1	5108.1	5072.6	5093.9	5058.4	4980.2	4873.6	4902.1	4930.5	4951.8
22.5°	5342.5	5299.9	5250.2	5228.9	5349.6	5292.8	5157.8	5037.0	4994.4	5044.1	5079.7
25°	5548.6	5548.6	5456.2	5484.6	5619.6	5626.7	5470.4	5257.3	5228.9	5250.2	5264.4
27.5°	5967.7	5989.0	5910.9	5939.3	5996.1	6045.9	5910.9	5733.3	5669.3	5662.2	5683.5
30°	6422.4	6465.0	6457.9	6578.7	6742.1	6770.5	6571.6	6280.3	6088.5	6053.0	6081.4
32.5°	7019.2	7040.5	7026.3	7168.4	7608.8	7814.9	7296.3	6884.2	6628.4	6692.4	6628.4
35°	8141.7	8120.4	7964.1	7992.5	8354.8	8504.0	8006.7	7743.8	7623.1	7750.9	7722.5
37.5°	9107.9	9029.7	8901.9	9086.6	9463.1	9598.1	9079.5	8617.7	8397.4	8610.6	8702.9
40°	9924.9	9726.0	9548.4	9733.1	10237.5	10422.2	9662.0	9285.5	9200.2	9356.5	9555.5
42.5°	10614.0	10486.1	10251.7	10265.9	10599.8	10685.1	10074.1	9853.9	9768.6	10017.3	10116.7
45°	11104.2	10983.5	10763.2	10749.0	11004.8	10947.9	10400.9	10251.7	10301.4	10464.8	10514.6
47.5°	11352.9	11416.8	11288.9	11324.5	11459.5	11324.5	10891.1	10891.1	10777.4	10876.9	10827.2
50°	12070.4	11871.5	12034.9	12034.9	12177.0	12191.2	11757.8	11601.5	11296.1	11125.5	11125.5
52.5°	12908.8	12923.0	12986.9	13221.4	13462.9	13668.9	13050.8	12383.0	11871.5	11651.3	11622.9
55°	13597.9	13740.0	13995.7	14436.2	15132.4	15416.6	14351.0	13157.4	12532.2	12191.2	12120.2
56°	13974.4	13839.4	14279.9	14883.8	15793.2	16162.6	14564.1	13313.7	12624.6	12240.9	12233.8
57.5°	13612.1	13761.3	14066.8	15018.8	16134.2	16617.3	14642.2	13242.7	12255.2	11864.4	11899.9
60°	10749.0	10891.1	11303.2	12368.8	14116.5	14493.0	12390.1	10919.5	10038.6	9477.3	9484.4
62.5°	6081.4	6188.0	6507.7	7495.2	8582.2	8944.5	7722.5	6742.1	6131.1	5818.5	5719.1
65°	2237.9	2195.3	2245.0	2749.4	3417.2	3722.7	3211.2	2713.9	2394.2	2280.5	2237.9
67.5°	838.3	774.4	724.7	774.4	973.3	1030.1	944.9	788.6	738.9	760.2	774.4
70°	518.6	490.2	390.7	369.4	362.3	355.2	376.5	397.8	454.7	532.8	547.0
72.5°	362.3	341.0	277.1	262.9	248.7	241.6	277.1	305.5	355.2	412.1	419.2
75°	142.1	149.2	142.1	156.3	163.4	170.5	198.9	220.2	241.6	241.6	234.4
77.5°	28.4	28.4	42.6	56.8	71.0	92.4	135.0	156.3	163.4	156.3	135.0
80°	0.0	0.0	14.2	28.4	56.8	78.1	120.8	135.0	149.2	135.0	106.6
82.5°	0.0	0.0	14.2	35.5	56.8	71.0	113.7	142.1	163.4	149.2	113.7
85°	0.0	0.0	14.2	28.4	42.6	49.7	49.7	35.5	35.5	21.3	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)