

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: P533579

Luminaire Tested: **GALN-SA9A-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26531 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

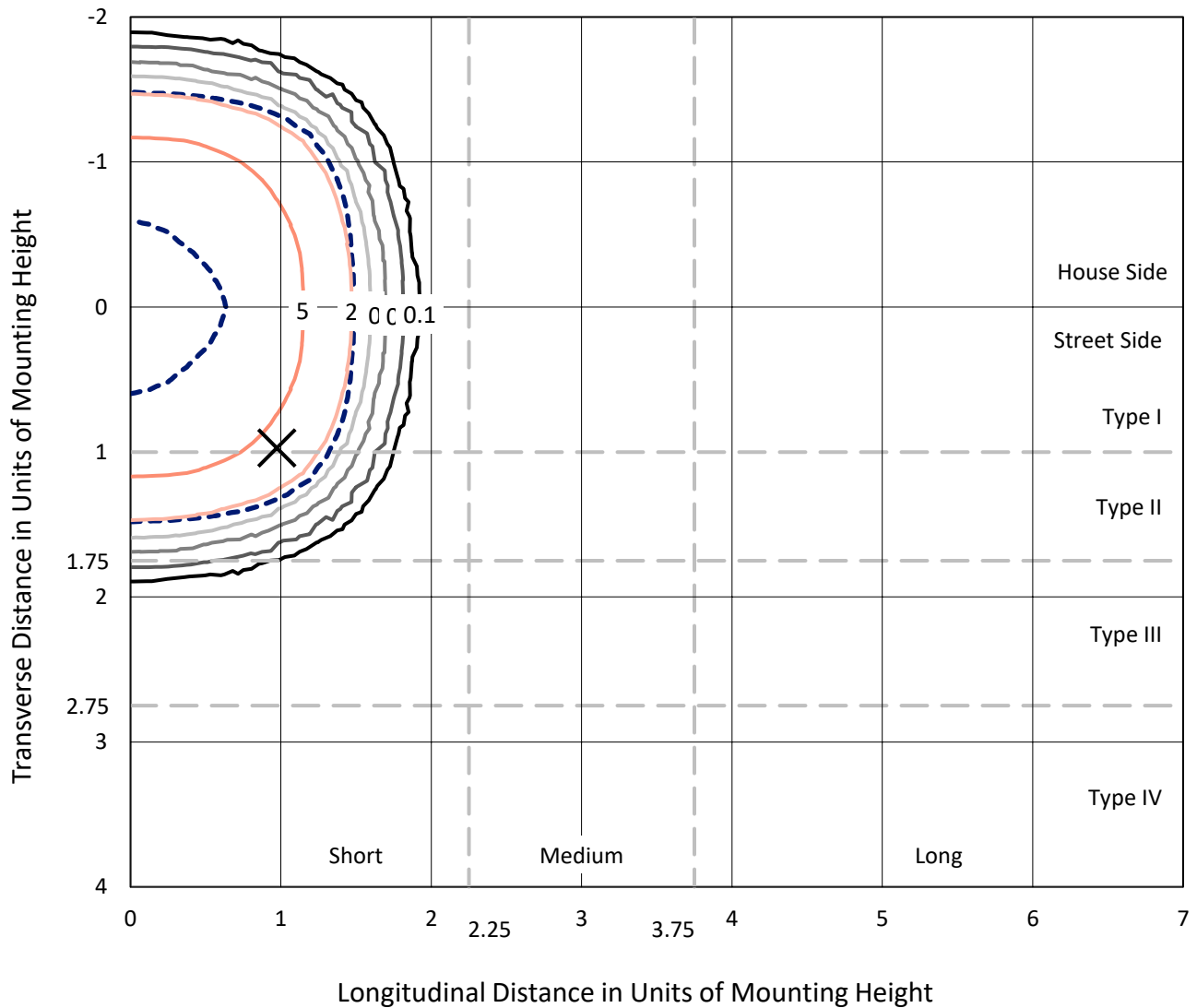
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

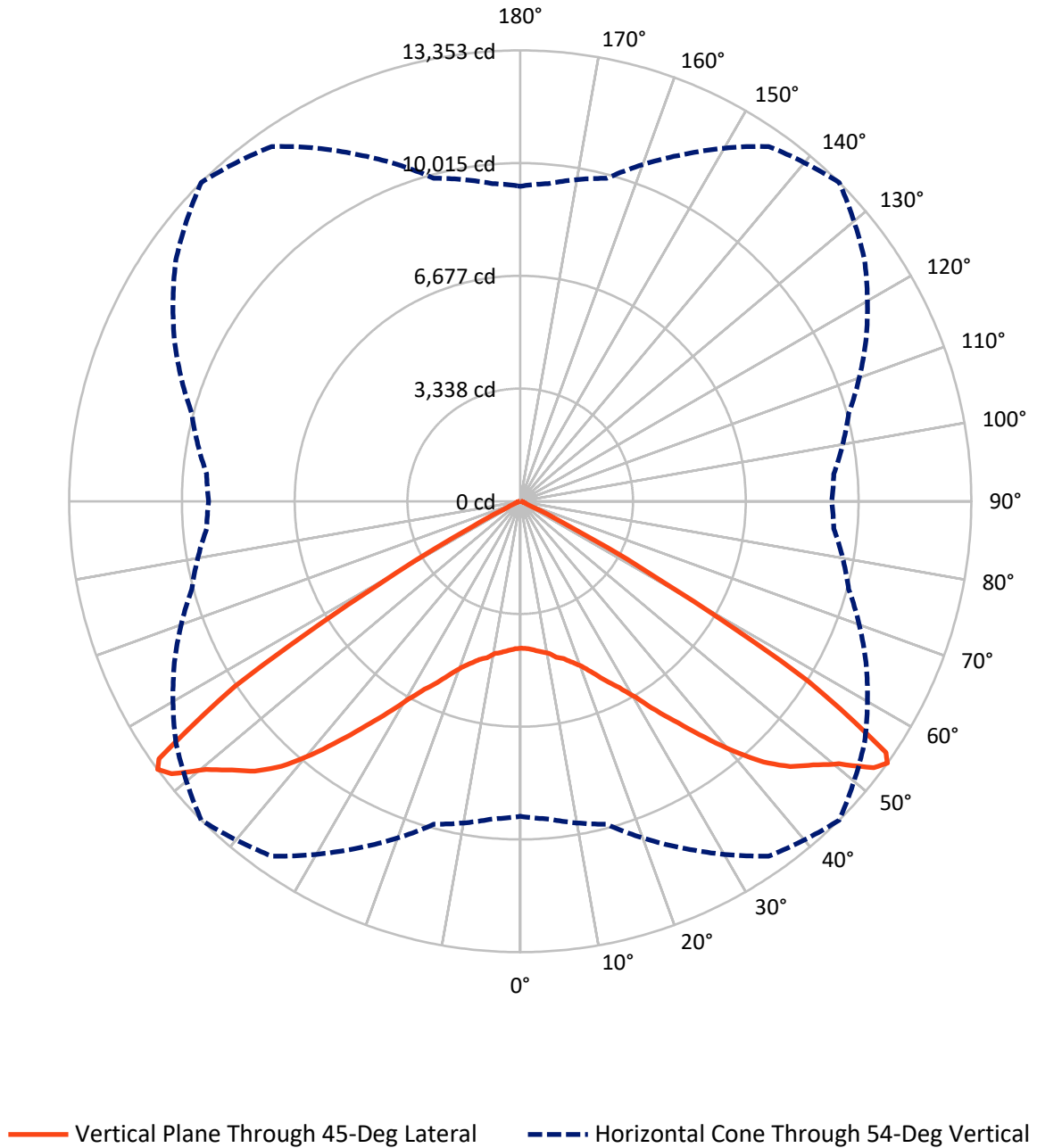
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot





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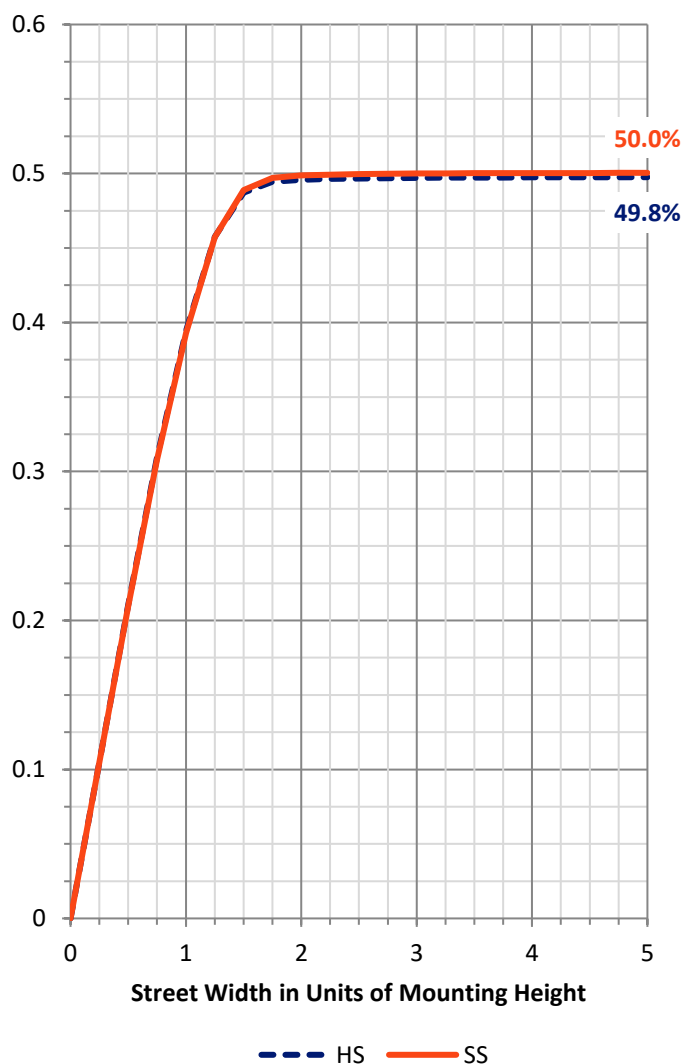
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13265.5	0.0	13265.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13265.5	0.0	13265.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26531.0	0.0	26531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.8	1.6
10°-20°	1378.9	5.2
20°-30°	2702.5	10.2
30°-40°	4859.6	18.3
40°-50°	8318.7	31.4
50°-60°	8049.2	30.3
60°-70°	689.0	2.6
70°-80°	81.7	0.3
80°-90°	25.6	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°	26531.0	100.0
0°-180°	26531.0	100.0

Coefficient of Utilization



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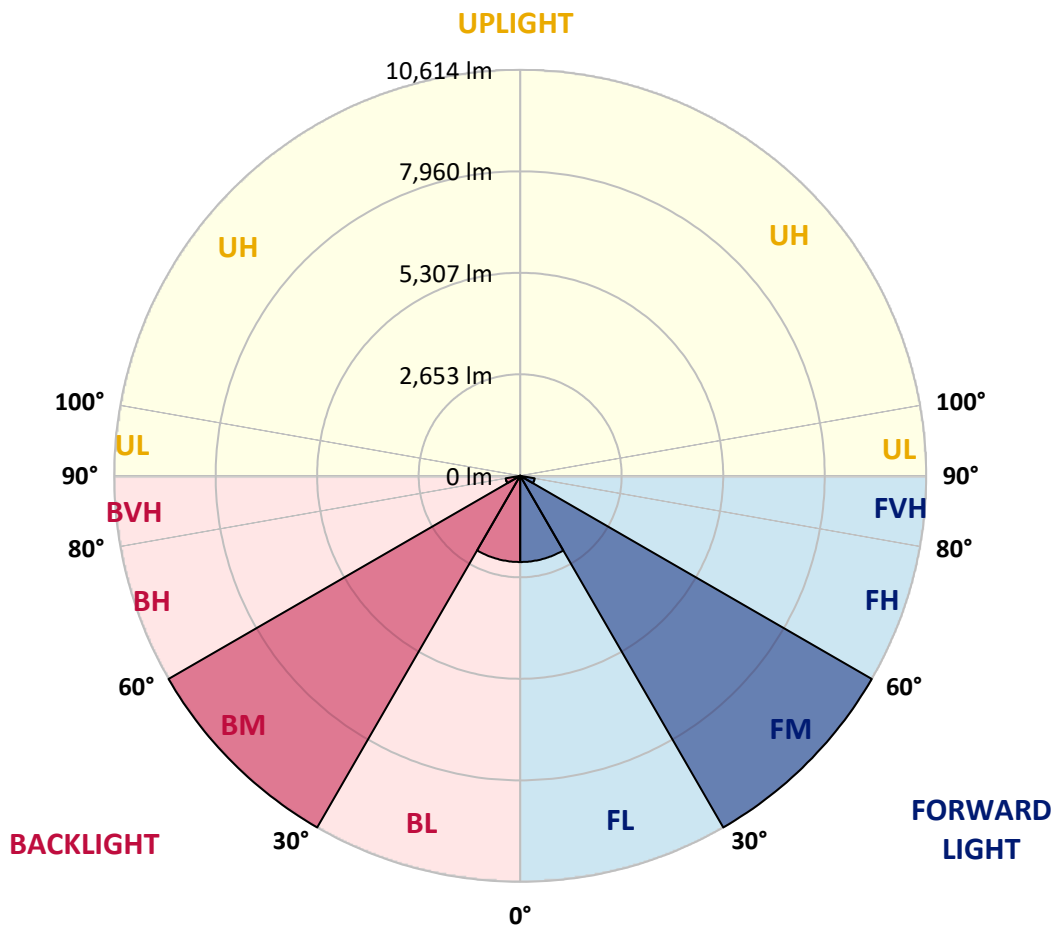
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.6	8.5			
FM (30°-60°)	10613.8	40.0			
FH (60°-80°)	385.4	1.5			G0/660
FVH (80°-90°)	12.8	0.0			G1/100
BL (0°-30°)	2253.6	8.5	B3/2500		
BM (30°-60°)	10613.8	40.0	B5		
BH (60°-80°)	385.4	1.5	B1/500		G0/660
BVH (80°-90°)	12.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4350.3	4350.3	4350.3	4350.3	4350.3	4350.3	4350.3	4350.3	4350.3	4350.3	4350.3
2.5°	4371.3	4396.5	4379.7	4392.3	4392.3	4371.3	4383.9	4333.4	4367.1	4341.9	4346.1
5°	4438.5	4434.3	4434.3	4438.5	4421.7	4430.1	4413.3	4396.5	4383.9	4367.1	4417.5
7.5°	4522.6	4522.6	4493.2	4501.6	4493.2	4505.8	4472.1	4438.5	4425.9	4413.3	4404.9
10°	4602.4	4594.0	4581.4	4619.3	4589.8	4573.0	4556.2	4535.2	4489.0	4472.1	4455.3
12.5°	4720.1	4715.9	4699.1	4736.9	4720.1	4736.9	4673.9	4619.3	4610.9	4556.2	4585.6
15°	4858.8	4896.7	4867.2	4867.2	4858.8	4837.8	4812.6	4787.4	4711.7	4690.7	4694.9
17.5°	5039.6	5027.0	5031.2	5031.2	5073.2	5018.6	4968.1	4905.1	4867.2	4854.6	4812.6
20°	5211.9	5228.7	5224.5	5253.9	5279.2	5220.3	5165.7	5157.3	5052.2	5069.0	5010.2
22.5°	5514.5	5501.9	5522.9	5544.0	5527.1	5518.7	5468.3	5405.2	5312.8	5270.7	5262.3
25°	5834.0	5813.0	5775.1	5825.6	5850.8	5888.6	5791.9	5758.3	5615.4	5552.4	5556.6
27.5°	6107.2	6136.6	6178.6	6199.6	6262.7	6250.1	6182.8	6073.5	5964.3	5892.8	5846.6
30°	6481.3	6498.1	6569.5	6598.9	6708.2	6737.6	6632.6	6506.5	6313.1	6220.7	6166.0
32.5°	6825.9	6943.6	6939.4	7086.5	7263.0	7384.9	7195.8	7002.4	6809.1	6699.8	6603.1
35°	7384.9	7363.9	7485.8	7641.3	7927.1	8065.8	7859.9	7637.1	7342.9	7166.4	7090.7
37.5°	7906.1	7914.5	8078.4	8326.4	8654.3	8868.6	8687.9	8322.2	8019.6	7792.6	7687.6
40°	8662.7	8679.5	8847.6	9129.2	9499.1	9730.3	9520.1	9150.3	8746.7	8570.2	8570.2
42.5°	9549.6	9621.0	9730.3	9974.1	10306.1	10562.5	10373.4	10083.4	9675.6	9448.7	9482.3
45°	10461.6	10495.3	10566.7	10928.2	11083.7	11209.8	11033.3	10898.8	10625.6	10348.1	10301.9
47.5°	11314.9	11327.5	11537.6	11651.1	11773.0	11667.9	11781.4	11604.9	11298.1	11029.1	10974.4
50°	11693.2	11672.1	11970.6	12315.2	12407.7	12222.8	12126.1	12008.4	11541.8	11218.2	11075.3
52.5°	10591.9	10713.8	11268.6	12227.0	12949.9	13105.4	12542.2	12000.0	11129.9	10499.5	10402.8
54°	9331.0	9444.5	9902.6	11323.3	12828.0	13353.4	12445.5	11293.9	10066.5	9318.4	9221.7
55°	8082.7	7956.6	8788.8	10238.9	12256.4	13134.8	12063.0	10381.8	8977.9	8292.8	8158.3
57.5°	4375.5	4396.5	5098.4	6468.6	8612.2	10070.7	8893.9	7023.5	5304.4	4535.2	4467.9
60°	1387.0	1420.7	1727.5	2614.4	4114.9	4913.5	4211.6	2820.3	1950.3	1563.6	1500.5
62.5°	432.9	449.7	491.8	731.3	1126.4	1609.8	1260.9	756.6	563.2	517.0	525.4
65°	264.8	264.8	269.0	285.8	336.3	390.9	378.3	332.0	319.4	311.0	306.8
67.5°	172.3	168.1	176.5	189.1	197.5	201.8	214.4	227.0	222.8	214.4	214.4
70°	105.1	100.9	109.3	126.1	130.3	138.7	151.3	168.1	163.9	155.5	159.7
72.5°	58.8	58.8	63.0	75.7	88.3	96.7	109.3	121.9	126.1	121.9	121.9
75°	21.0	25.2	33.6	46.2	54.6	67.3	79.9	92.5	105.1	96.7	92.5
77.5°	8.4	8.4	16.8	29.4	42.0	54.6	75.7	88.3	96.7	88.3	79.9
80°	4.2	4.2	12.6	25.2	37.8	50.4	63.0	75.7	79.9	71.5	63.0
82.5°	4.2	4.2	12.6	25.2	37.8	46.2	67.3	75.7	84.1	75.7	63.0
85°	0.0	4.2	12.6	25.2	33.6	37.8	37.8	25.2	21.0	12.6	12.6
87.5°	0.0	0.0	4.2	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)