

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: P532643

Luminaire Tested: **GALN-SA8A-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532643
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-SA8A-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 23632 lumens
Efficiency: N/A
Efficacy: 96.9 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

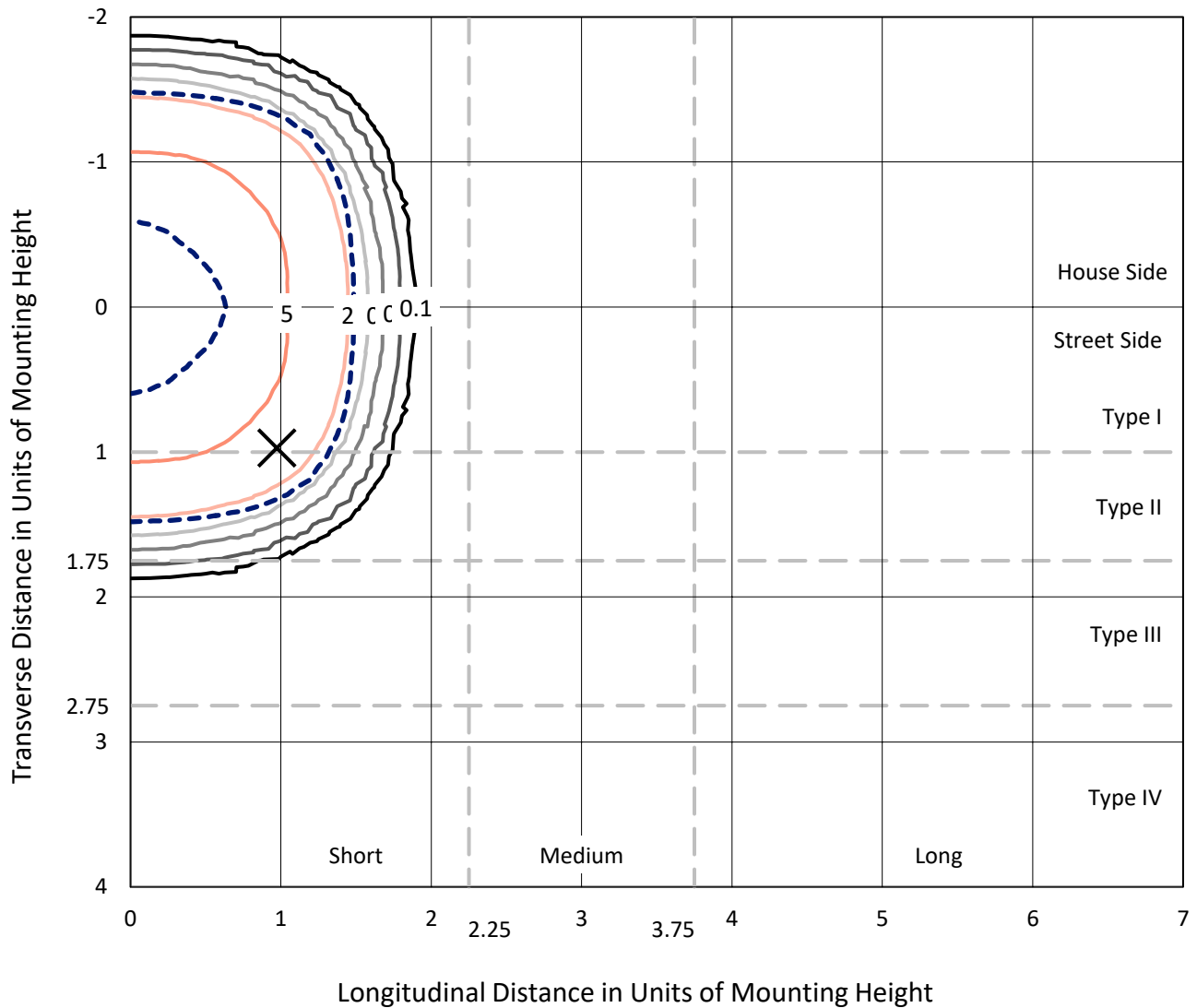
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

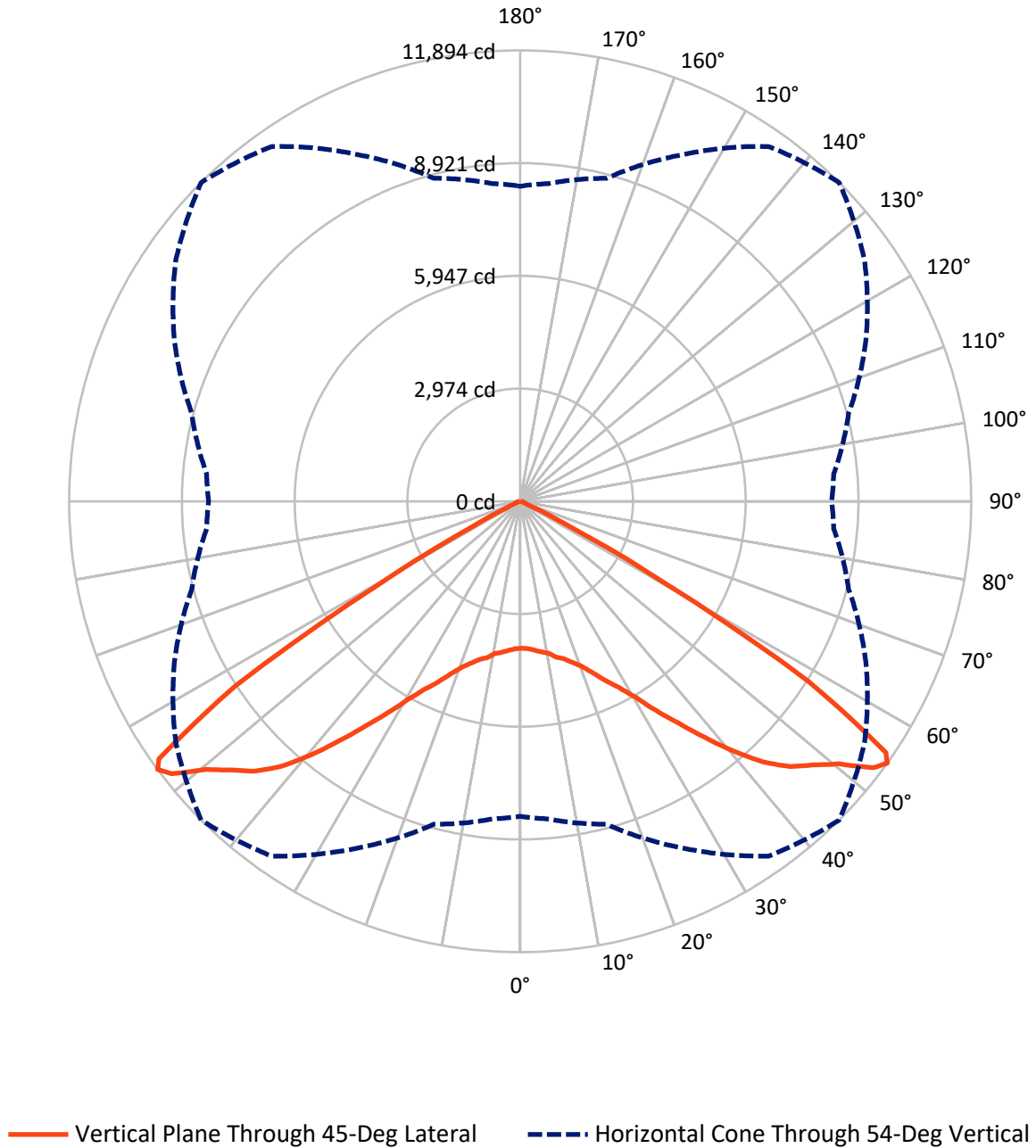
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA8A-735-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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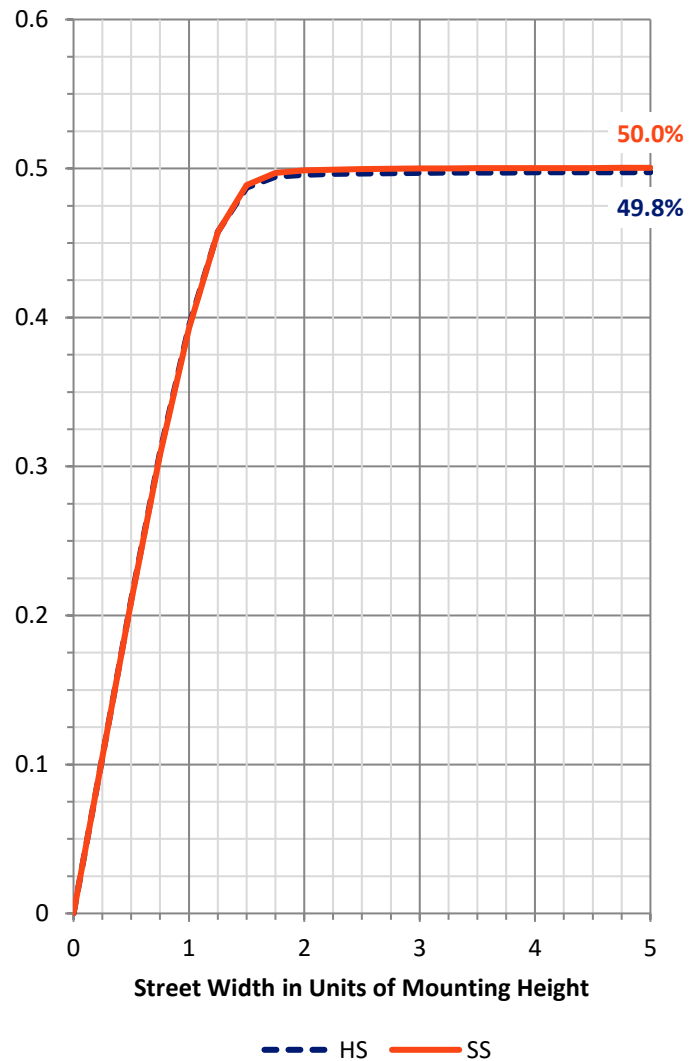
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11816.0	0.0	11816.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11816.0	0.0	11816.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23632.0	0.0	23632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.6
10°-20°	1228.2	5.2
20°-30°	2407.2	10.2
30°-40°	4328.6	18.3
40°-50°	7409.8	31.4
50°-60°	7169.7	30.3
60°-70°	613.7	2.6
70°-80°	72.7	0.3
80°-90°	22.8	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°	23632.0	100.0
0°-180°	23632.0	100.0



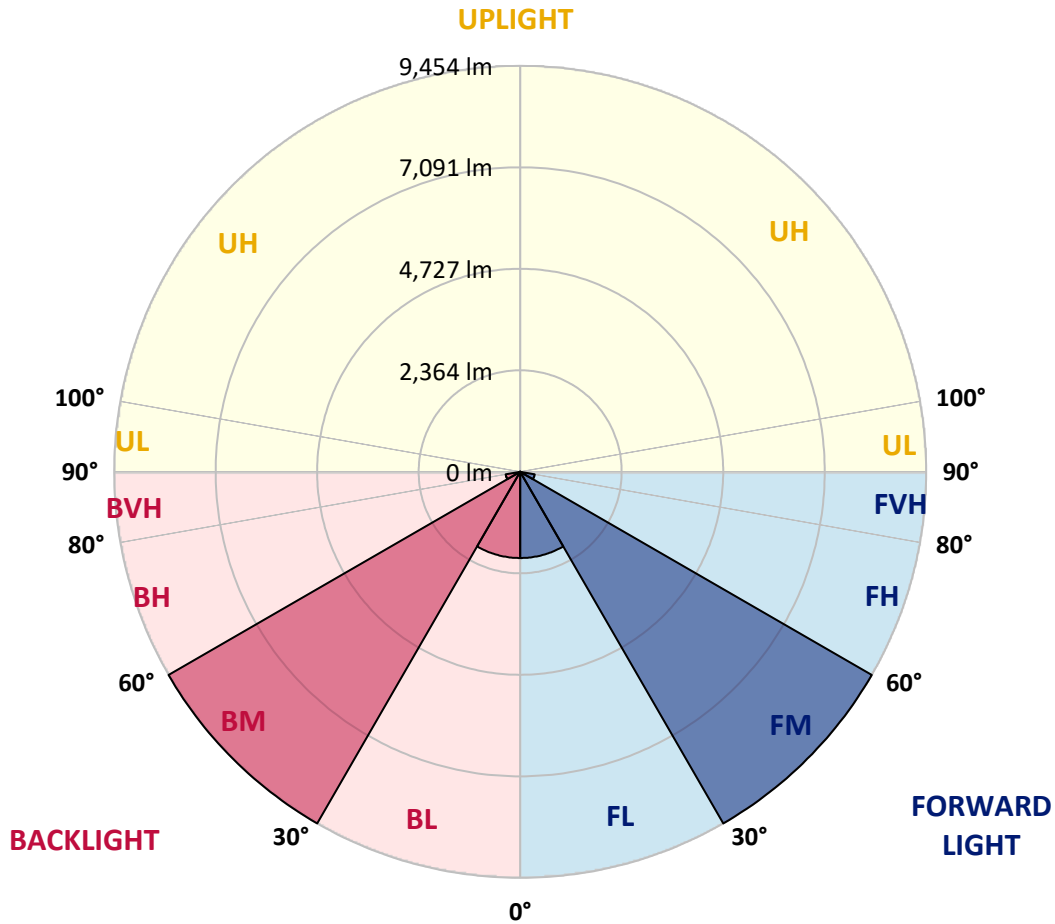
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2007.3	8.5			
FM (30°-60°)	9454.0	40.0			
FH (60°-80°)	343.2	1.5			G0/660
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	2007.3	8.5	B3/2500		
BM (30°-60°)	9454.0	40.0	B5		
BH (60°-80°)	343.2	1.5	B1/500		G0/660
BVH (80°-90°)	11.4	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°	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9
2.5°	3893.6	3916.1	3901.1	3912.4	3912.4	3893.6	3904.9	3859.9	3889.9	3867.4	3871.2
5°	3953.5	3949.8	3949.8	3953.5	3938.6	3946.0	3931.1	3916.1	3904.9	3889.9	3934.8
7.5°	4028.4	4028.4	4002.2	4009.7	4002.2	4013.4	3983.5	3953.5	3942.3	3931.1	3923.6
10°	4099.5	4092.1	4080.8	4114.5	4088.3	4073.3	4058.4	4039.6	3998.5	3983.5	3968.5
12.5°	4204.4	4200.6	4185.7	4219.3	4204.4	4219.3	4163.2	4114.5	4107.0	4058.4	4084.6
15°	4327.9	4361.6	4335.4	4335.4	4327.9	4309.2	4286.7	4264.3	4196.9	4178.2	4181.9
17.5°	4488.9	4477.7	4481.4	4481.4	4518.9	4470.2	4425.3	4369.1	4335.4	4324.2	4286.7
20°	4642.4	4657.4	4653.6	4679.8	4702.3	4649.9	4601.2	4593.7	4500.1	4515.1	4462.7
22.5°	4912.0	4900.7	4919.5	4938.2	4923.2	4915.7	4870.8	4814.6	4732.3	4694.8	4687.3
25°	5196.5	5177.8	5144.1	5189.0	5211.5	5245.2	5159.1	5129.1	5001.8	4945.7	4949.4
27.5°	5439.9	5466.1	5503.5	5522.2	5578.4	5567.1	5507.2	5409.9	5312.6	5248.9	5207.7
30°	5773.1	5788.0	5851.7	5877.9	5975.2	6001.4	5907.8	5795.5	5623.3	5540.9	5492.3
32.5°	6080.1	6184.9	6181.1	6312.2	6469.4	6578.0	6409.5	6237.3	6065.1	5967.7	5881.6
35°	6578.0	6559.3	6667.8	6806.4	7061.0	7184.5	7001.0	6802.6	6540.6	6383.3	6315.9
37.5°	7042.2	7049.7	7195.7	7416.6	7708.6	7899.6	7738.6	7412.9	7143.3	6941.1	6847.5
40°	7716.1	7731.1	7880.9	8131.7	8461.2	8667.1	8479.9	8150.4	7791.0	7633.8	7633.8
42.5°	8506.1	8569.7	8667.1	8884.2	9180.0	9408.4	9239.9	8981.6	8618.4	8416.2	8446.2
45°	9318.5	9348.5	9412.1	9734.1	9872.6	9984.9	9827.7	9707.9	9464.5	9217.4	9176.2
47.5°	10078.5	10089.7	10276.9	10378.0	10486.6	10393.0	10494.1	10336.8	10063.5	9823.9	9775.3
50°	10415.5	10396.7	10662.6	10969.6	11051.9	10887.2	10801.1	10696.3	10280.7	9992.4	9865.1
52.5°	9434.6	9543.1	10037.3	10890.9	11534.9	11673.4	11171.7	10688.8	9913.8	9352.2	9266.1
54°	8311.4	8412.5	8820.6	10086.0	11426.3	11894.3	11085.6	10059.8	8966.6	8300.2	8214.1
55°	7199.5	7087.2	7828.4	9120.1	10917.1	11699.6	10744.9	9247.4	7996.9	7386.7	7266.9
57.5°	3897.4	3916.1	4541.3	5761.8	7671.2	8970.3	7922.0	6256.0	4724.8	4039.6	3979.7
60°	1235.5	1265.4	1538.7	2328.7	3665.3	4376.6	3751.4	2512.1	1737.2	1392.7	1336.6
62.5°	385.6	400.6	438.0	651.4	1003.4	1433.9	1123.2	673.9	501.7	460.5	468.0
65°	235.9	235.9	239.6	254.6	299.5	348.2	336.9	295.8	284.5	277.0	273.3
67.5°	153.5	149.8	157.2	168.5	176.0	179.7	190.9	202.2	198.4	190.9	190.9
70°	93.6	89.9	97.3	112.3	116.1	123.5	134.8	149.8	146.0	138.5	142.3
72.5°	52.4	52.4	56.2	67.4	78.6	86.1	97.3	108.6	112.3	108.6	108.6
75°	18.7	22.5	30.0	41.2	48.7	59.9	71.1	82.4	93.6	86.1	82.4
77.5°	7.5	7.5	15.0	26.2	37.4	48.7	67.4	78.6	86.1	78.6	71.1
80°	3.7	3.7	11.2	22.5	33.7	44.9	56.2	67.4	71.1	63.6	56.2
82.5°	3.7	3.7	11.2	22.5	33.7	41.2	59.9	67.4	74.9	67.4	56.2
85°	0.0	3.7	11.2	22.5	30.0	33.7	33.7	22.5	18.7	11.2	11.2
87.5°	0.0	0.0	3.7	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)