

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: P531941

Luminaire Tested: **GALN-SA7B-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531941
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-SA7B-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 25363 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

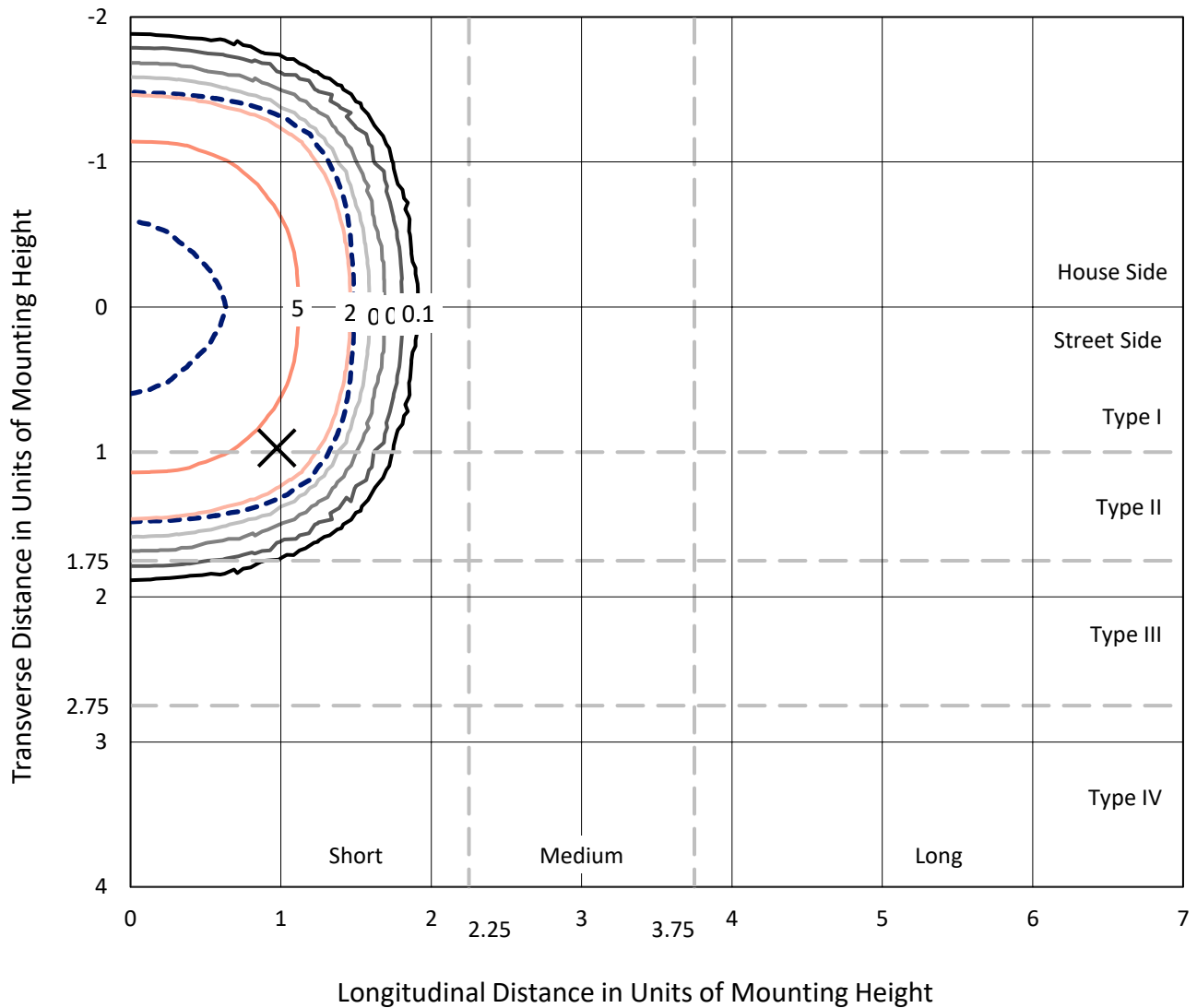
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

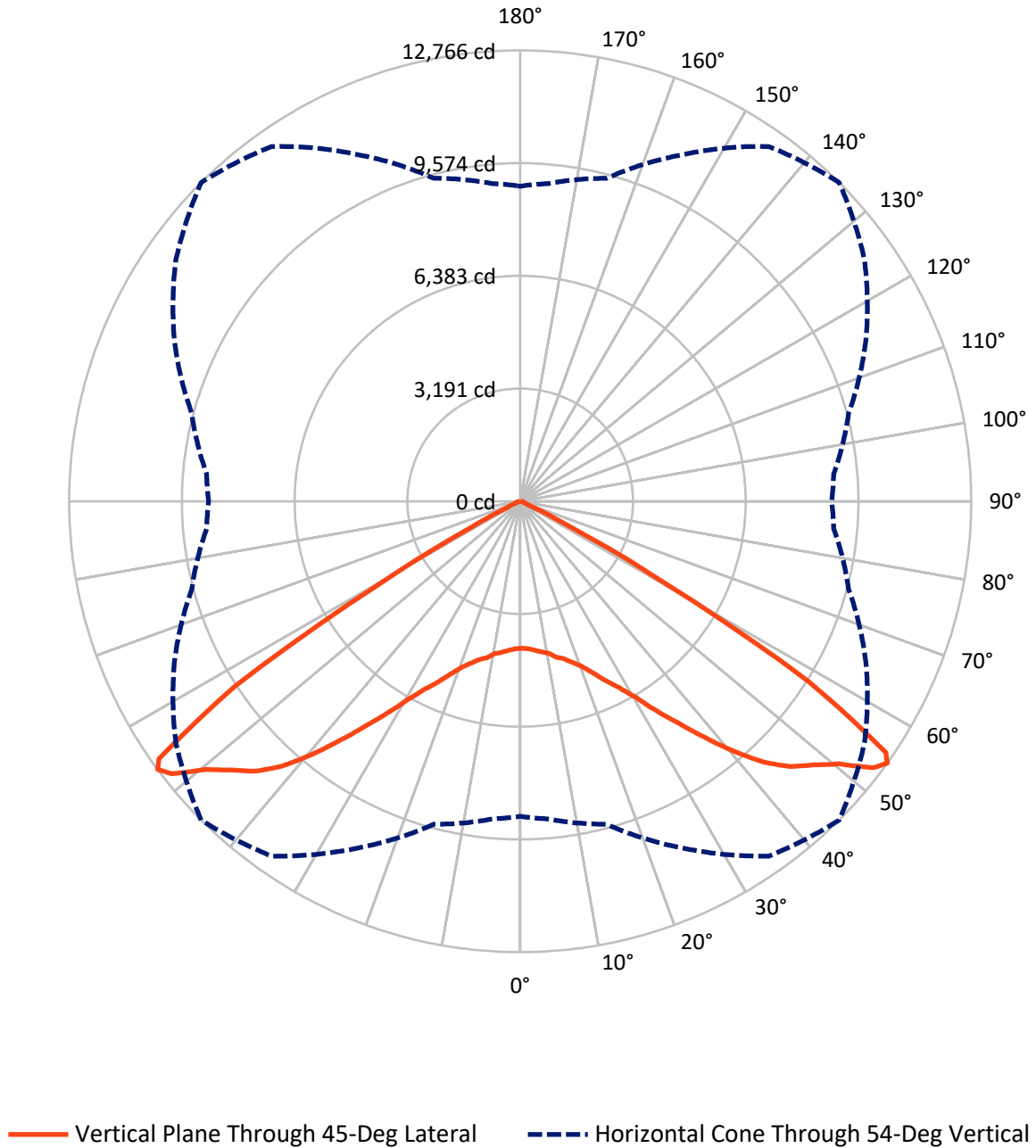
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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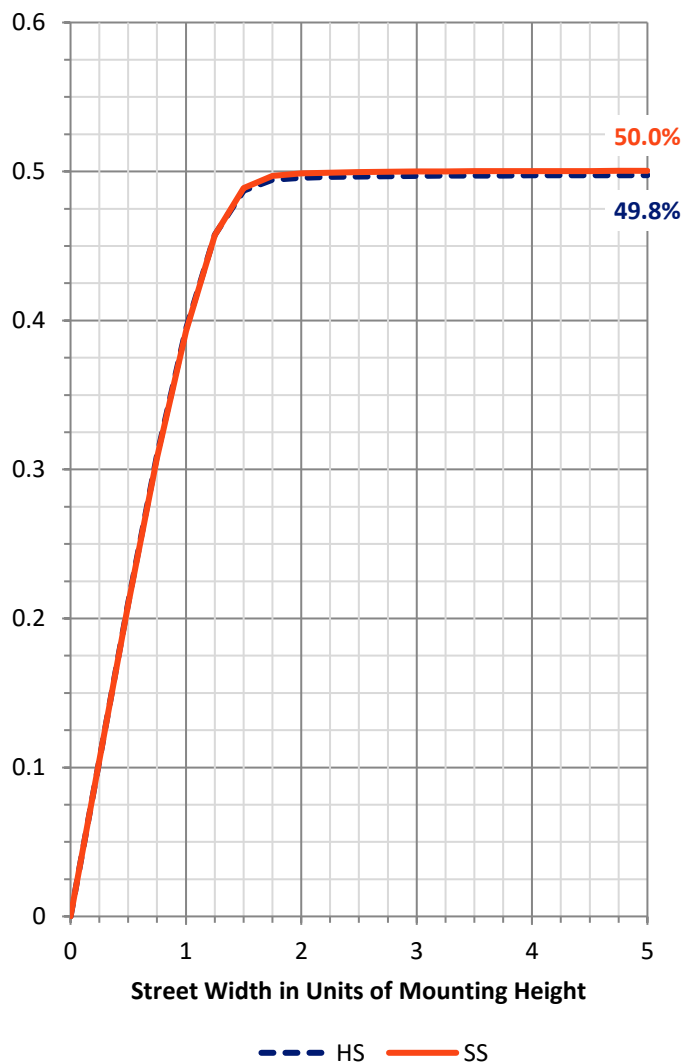
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12681.5	0.0	12681.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12681.5	0.0	12681.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25363.0	0.0	25363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	1.6
10°-20°	1318.2	5.2
20°-30°	2583.5	10.2
30°-40°	4645.7	18.3
40°-50°	7952.5	31.4
50°-60°	7694.8	30.3
60°-70°	658.7	2.6
70°-80°	78.1	0.3
80°-90°	24.5	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°	25363.0	100.0
0°-180°	25363.0	100.0

Coefficient of Utilization

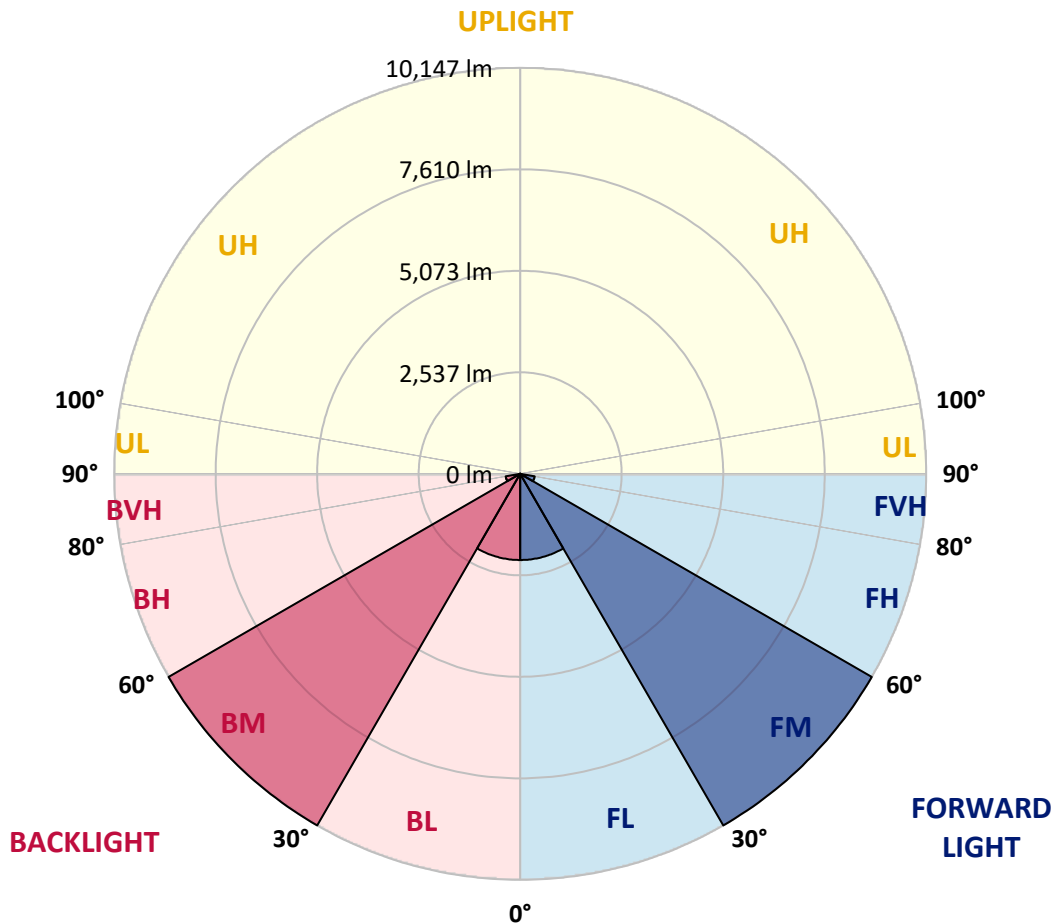


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.3	8.5			
FM (30°-60°)	10146.5	40.0			
FH (60°-80°)	368.4	1.5			G0/660
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	2154.3	8.5	B3/2500		
BM (30°-60°)	10146.5	40.0	B5		
BH (60°-80°)	368.4	1.5	B1/500		G0/660
BVH (80°-90°)	12.2	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°	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7
2.5°	4178.8	4202.9	4186.9	4198.9	4198.9	4178.8	4190.9	4142.7	4174.8	4150.7	4154.7
5°	4243.1	4239.1	4239.1	4243.1	4227.0	4235.1	4219.0	4202.9	4190.9	4174.8	4223.0
7.5°	4323.5	4323.5	4295.4	4303.4	4295.4	4307.4	4275.3	4243.1	4231.1	4219.0	4211.0
10°	4399.8	4391.8	4379.7	4415.9	4387.8	4371.7	4355.6	4335.5	4291.3	4275.3	4259.2
12.5°	4512.3	4508.3	4492.2	4528.4	4512.3	4528.4	4468.1	4415.9	4407.9	4355.6	4383.8
15°	4644.9	4681.1	4653.0	4653.0	4644.9	4624.8	4600.7	4576.6	4504.3	4484.2	4488.2
17.5°	4817.7	4805.7	4809.7	4809.7	4849.9	4797.6	4749.4	4689.1	4653.0	4640.9	4600.7
20°	4982.5	4998.5	4994.5	5022.6	5046.7	4990.5	4938.3	4930.2	4829.8	4845.8	4789.6
22.5°	5271.8	5259.7	5279.8	5299.9	5283.8	5275.8	5227.6	5167.3	5078.9	5038.7	5030.7
25°	5577.1	5557.0	5520.9	5569.1	5593.2	5629.4	5537.0	5504.8	5368.2	5307.9	5311.9
27.5°	5838.3	5866.4	5906.6	5926.7	5987.0	5974.9	5910.6	5806.2	5701.7	5633.4	5589.2
30°	6195.9	6212.0	6280.3	6308.4	6412.9	6441.0	6340.6	6220.0	6035.2	5946.8	5894.6
32.5°	6525.4	6637.9	6633.9	6774.5	6943.3	7059.8	6879.0	6694.2	6509.3	6404.9	6312.4
35°	7059.8	7039.7	7156.3	7304.9	7578.2	7710.7	7513.9	7300.9	7019.6	6850.9	6778.5
37.5°	7558.1	7566.1	7722.8	7959.9	8273.3	8478.2	8305.4	7955.9	7666.6	7449.6	7349.1
40°	8281.3	8297.4	8458.1	8727.3	9080.9	9301.9	9101.0	8747.4	8361.7	8192.9	8192.9
42.5°	9129.1	9197.4	9301.9	9535.0	9852.4	10097.5	9916.7	9639.4	9249.7	9032.7	9064.9
45°	10001.1	10033.2	10101.5	10447.1	10595.8	10716.3	10547.5	10419.0	10157.8	9892.6	9848.4
47.5°	10816.7	10828.8	11029.7	11138.2	11254.7	11154.3	11262.8	11094.0	10800.7	10543.5	10491.3
50°	11178.4	11158.3	11443.6	11773.1	11861.5	11684.7	11592.2	11479.7	11033.7	10724.3	10587.7
52.5°	10125.6	10242.2	10772.5	11688.7	12379.8	12528.5	11990.0	11471.7	10640.0	10037.2	9944.8
54°	8920.2	9028.7	9466.7	10824.8	12263.3	12765.5	11897.6	10796.7	9623.4	8908.1	8815.7
55°	7726.8	7606.3	8401.9	9788.1	11716.8	12556.6	11532.0	9924.7	8582.7	7927.7	7799.1
57.5°	4182.9	4202.9	4874.0	6183.9	8233.1	9627.4	8502.3	6714.3	5070.9	4335.5	4271.2
60°	1326.0	1358.1	1651.4	2499.3	3933.7	4697.2	4026.1	2696.2	1864.4	1494.7	1434.5
62.5°	413.9	429.9	470.1	699.2	1076.9	1538.9	1205.4	723.3	538.4	494.2	502.3
65°	253.1	253.1	257.2	273.2	321.4	373.7	361.6	317.4	305.4	297.3	293.3
67.5°	164.7	160.7	168.8	180.8	188.9	192.9	204.9	217.0	213.0	204.9	204.9
70°	100.5	96.4	104.5	120.5	124.6	132.6	144.7	160.7	156.7	148.7	152.7
72.5°	56.3	56.3	60.3	72.3	84.4	92.4	104.5	116.5	120.5	116.5	116.5
75°	20.1	24.1	32.1	44.2	52.2	64.3	76.3	88.4	100.5	92.4	88.4
77.5°	8.0	8.0	16.1	28.1	40.2	52.2	72.3	84.4	92.4	84.4	76.3
80°	4.0	4.0	12.1	24.1	36.2	48.2	60.3	72.3	76.3	68.3	60.3
82.5°	4.0	4.0	12.1	24.1	36.2	44.2	64.3	72.3	80.4	72.3	60.3
85°	0.0	4.0	12.1	24.1	32.1	36.2	36.2	24.1	20.1	12.1	12.1
87.5°	0.0	0.0	4.0	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)