

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: P533813

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533813
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-SA9B-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 33011 lumens
Efficiency: N/A
Efficacy: 90.7 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

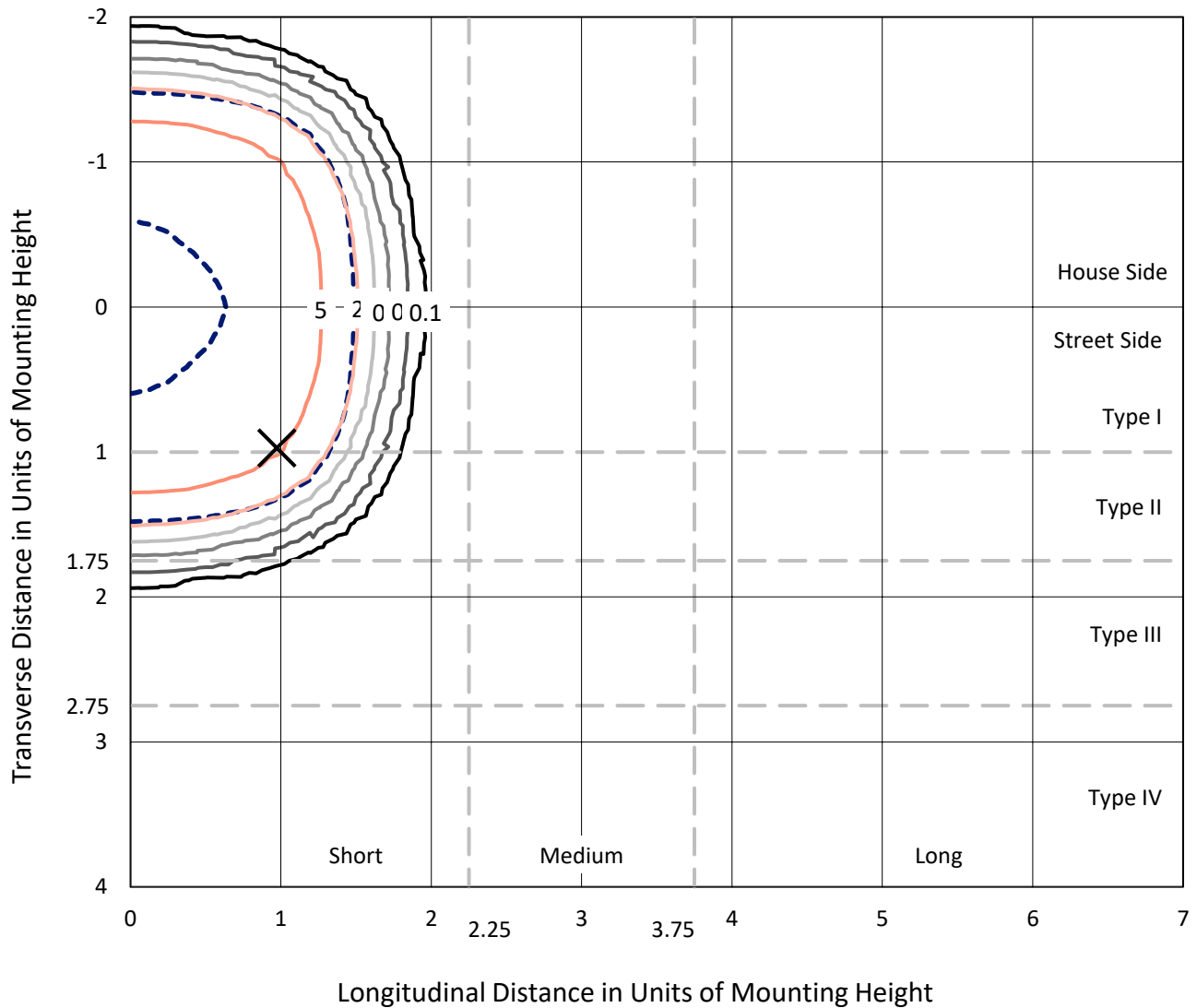
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

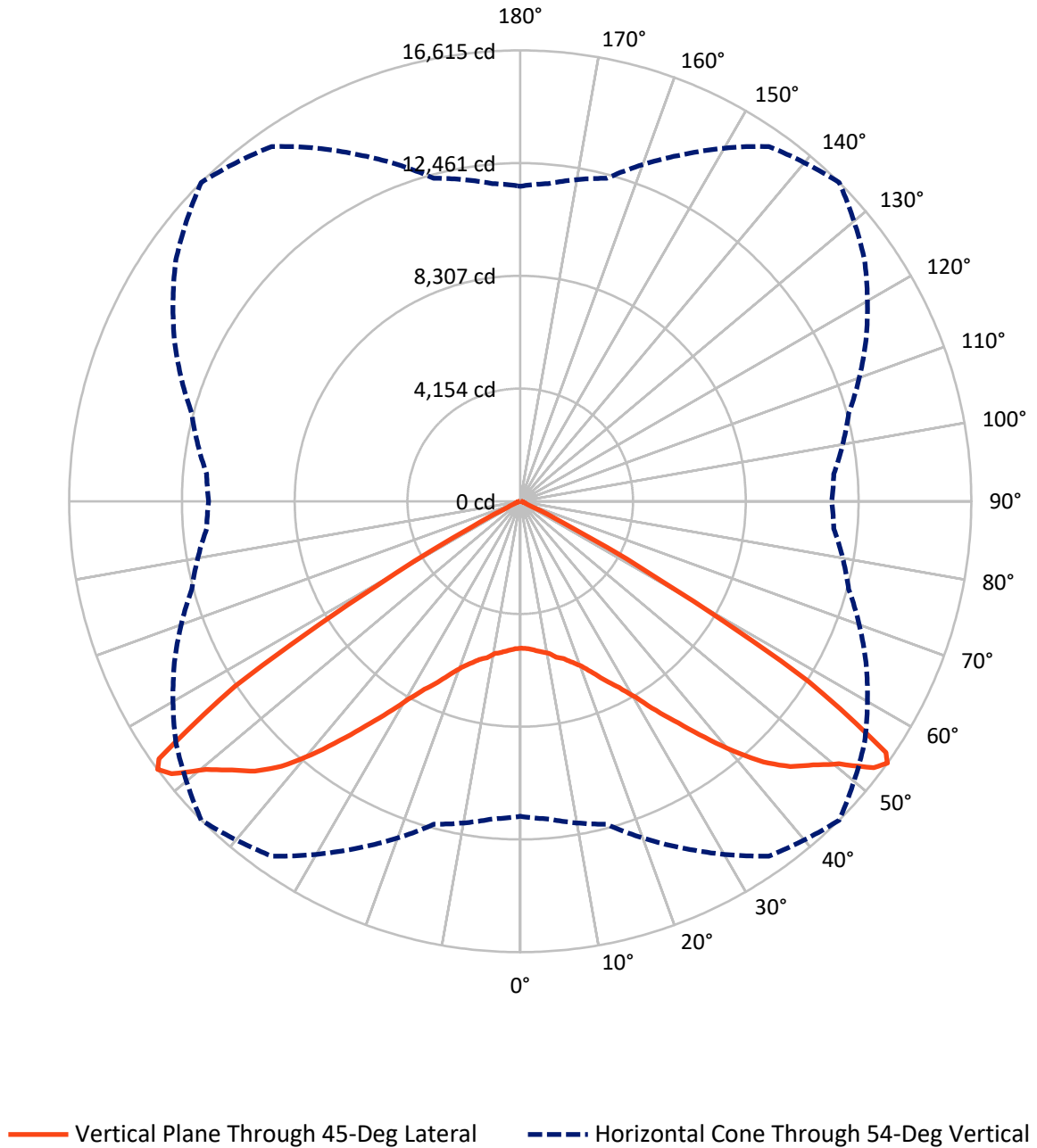
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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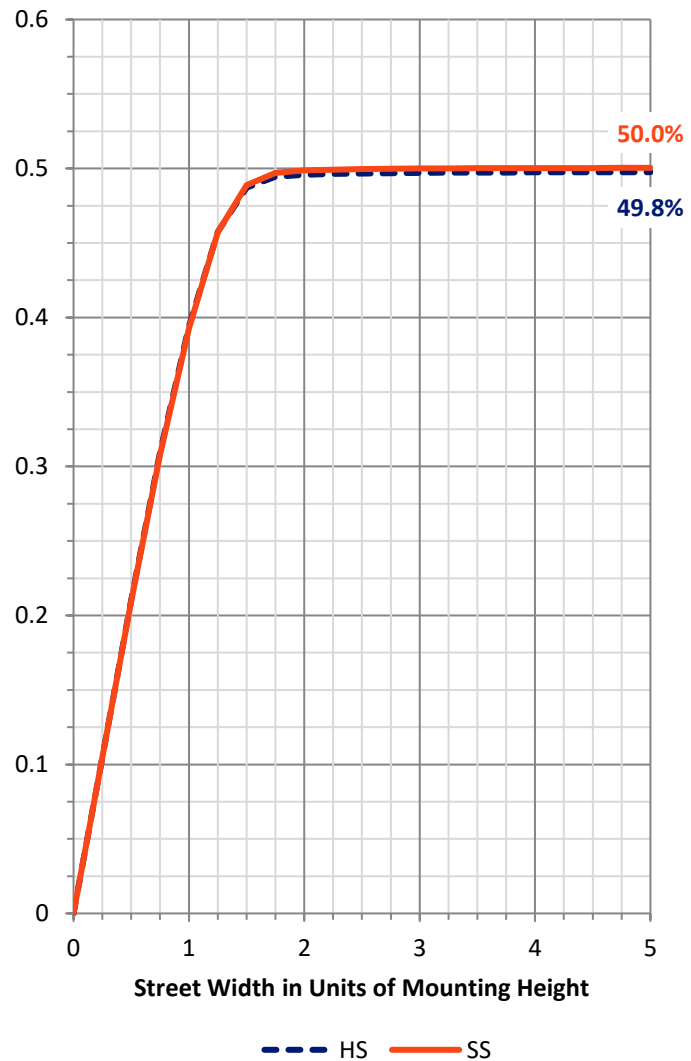
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16505.5	0.0	16505.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16505.5	0.0	16505.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33011.0	0.0	33011.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.8	1.6
10°-20°	1715.6	5.2
20°-30°	3362.5	10.2
30°-40°	6046.6	18.3
40°-50°	10350.5	31.4
50°-60°	10015.1	30.3
60°-70°	857.3	2.6
70°-80°	101.6	0.3
80°-90°	31.9	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°	33011.0	100.0
0°-180°	33011.0	100.0



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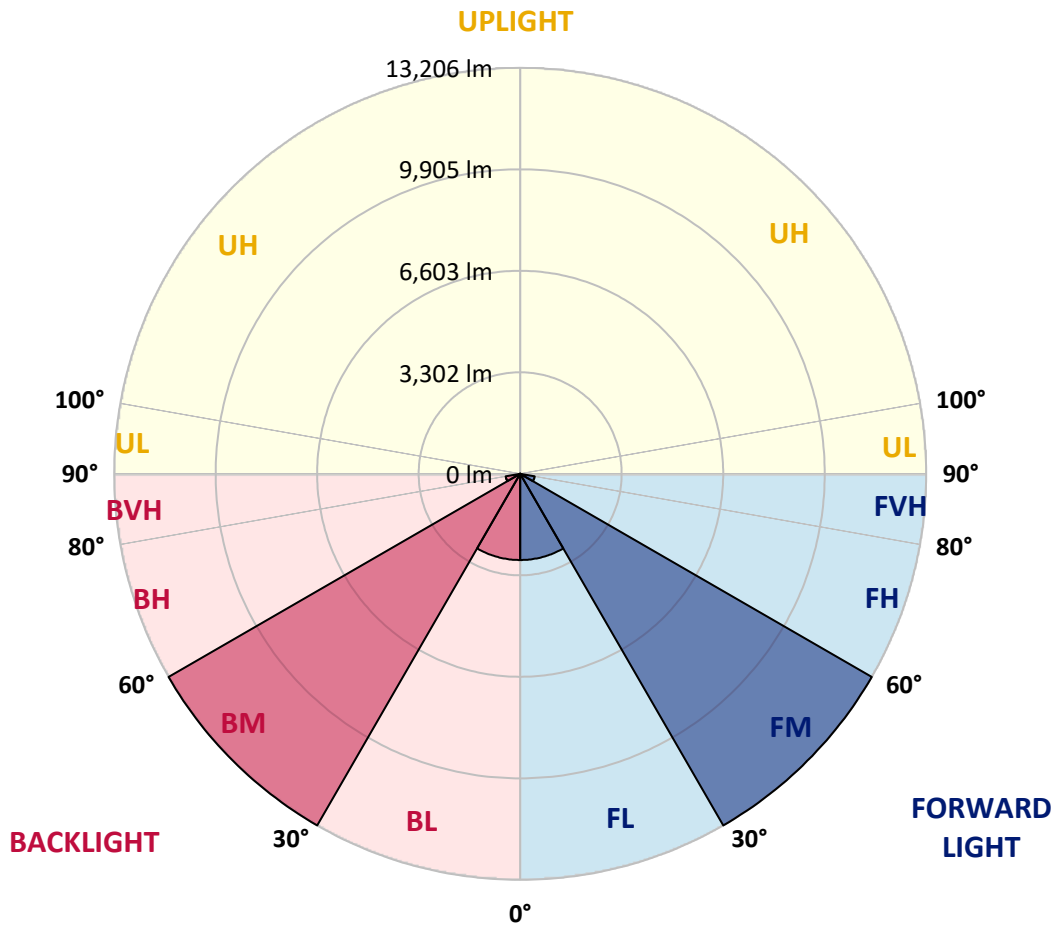
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2804.0	8.5			
FM (30°-60°)	13206.1	40.0			
FH (60°-80°)	479.5	1.5			G0/660
FVH (80°-90°)	15.9	0.0			G1/100
BL (0°-30°)	2804.0	8.5	B4/5000		
BM (30°-60°)	13206.1	40.0	B5		
BH (60°-80°)	479.5	1.5	B1/500		G0/660
BVH (80°-90°)	15.9	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°	5412.8	5412.8	5412.8	5412.8	5412.8	5412.8	5412.8	5412.8	5412.8	5412.8	5412.8
2.5°	5438.9	5470.3	5449.4	5465.1	5465.1	5438.9	5454.6	5391.9	5433.7	5402.3	5407.5
5°	5522.6	5517.4	5517.4	5522.6	5501.7	5512.1	5491.2	5470.3	5454.6	5433.7	5496.5
7.5°	5627.2	5627.2	5590.6	5601.0	5590.6	5606.3	5564.4	5522.6	5506.9	5491.2	5480.8
10°	5726.6	5716.1	5700.4	5747.5	5710.9	5690.0	5669.0	5642.9	5585.4	5564.4	5543.5
12.5°	5873.0	5867.8	5846.8	5893.9	5873.0	5893.9	5815.5	5747.5	5737.0	5669.0	5705.6
15°	6045.6	6092.6	6056.0	6056.0	6045.6	6019.4	5988.0	5956.7	5862.5	5836.4	5841.6
17.5°	6270.5	6254.8	6260.0	6260.0	6312.3	6244.3	6181.5	6103.1	6056.0	6040.3	5988.0
20°	6484.9	6505.8	6500.6	6537.2	6568.5	6495.3	6427.3	6416.9	6286.1	6307.1	6233.8
22.5°	6861.4	6845.7	6871.9	6898.0	6877.1	6866.6	6803.9	6725.4	6610.4	6558.1	6547.6
25°	7258.9	7232.7	7185.7	7248.4	7279.8	7326.9	7206.6	7164.7	6986.9	6908.5	6913.7
27.5°	7598.8	7635.4	7687.7	7713.9	7792.3	7776.6	7692.9	7557.0	7421.0	7332.1	7274.6
30°	8064.3	8085.2	8174.1	8210.7	8346.7	8383.3	8252.5	8095.6	7855.1	7740.0	7672.0
32.5°	8493.1	8639.5	8634.3	8817.3	9037.0	9188.6	8953.3	8712.7	8472.2	8336.2	8215.9
35°	9188.6	9162.5	9314.2	9507.7	9863.3	10035.9	9779.6	9502.4	9136.3	8916.7	8822.6
37.5°	9837.1	9847.6	10051.6	10360.1	10768.0	11034.7	10809.9	10354.9	9978.3	9695.9	9565.2
40°	10778.5	10799.4	11008.6	11359.0	11819.2	12106.8	11845.3	11385.1	10883.1	10663.4	10663.4
42.5°	11882.0	11970.9	12106.8	12410.2	12823.3	13142.3	12907.0	12546.1	12038.8	11756.4	11798.3
45°	13016.8	13058.6	13147.6	13597.3	13790.8	13947.7	13728.1	13560.7	13220.8	12875.6	12818.1
47.5°	14078.4	14094.1	14355.6	14496.8	14648.5	14517.7	14658.9	14439.3	14057.5	13722.8	13654.8
50°	14549.1	14523.0	14894.3	15323.1	15438.2	15208.1	15087.8	14941.4	14360.9	13958.2	13780.4
52.5°	13178.9	13330.6	14020.9	15213.3	16112.8	16306.3	15605.5	14930.9	13848.3	13063.9	12943.6
54°	11610.0	11751.2	12321.3	14088.9	15961.2	16614.9	15485.2	14052.3	12525.2	11594.3	11474.0
55°	10056.8	9899.9	10935.4	12739.6	15249.9	16342.9	15009.3	12917.4	11170.7	10318.3	10150.9
57.5°	5444.2	5470.3	6343.7	8048.6	10715.7	12530.4	11066.1	8738.9	6599.9	5642.9	5559.2
60°	1725.8	1767.7	2149.4	3252.9	5119.9	6113.6	5240.2	3509.2	2426.6	1945.5	1867.0
62.5°	538.7	559.6	611.9	910.0	1401.6	2003.0	1568.9	941.4	700.8	643.3	653.7
65°	329.5	329.5	334.7	355.6	418.4	486.4	470.7	413.1	397.5	387.0	381.8
67.5°	214.4	209.2	219.6	235.3	245.8	251.0	266.7	282.4	277.2	266.7	266.7
70°	130.7	125.5	136.0	156.9	162.1	172.6	188.3	209.2	204.0	193.5	198.7
72.5°	73.2	73.2	78.4	94.1	109.8	120.3	136.0	151.7	156.9	151.7	151.7
75°	26.1	31.4	41.8	57.5	68.0	83.7	99.4	115.1	130.7	120.3	115.1
77.5°	10.5	10.5	20.9	36.6	52.3	68.0	94.1	109.8	120.3	109.8	99.4
80°	5.2	5.2	15.7	31.4	47.1	62.8	78.4	94.1	99.4	88.9	78.4
82.5°	5.2	5.2	15.7	31.4	47.1	57.5	83.7	94.1	104.6	94.1	78.4
85°	0.0	5.2	15.7	31.4	41.8	47.1	47.1	31.4	26.1	15.7	15.7
87.5°	0.0	0.0	5.2	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)