

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: P531944

Luminaire Tested: **GALN-SA7B-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31322 lumens
Efficiency: N/A
Efficacy: 109.5 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

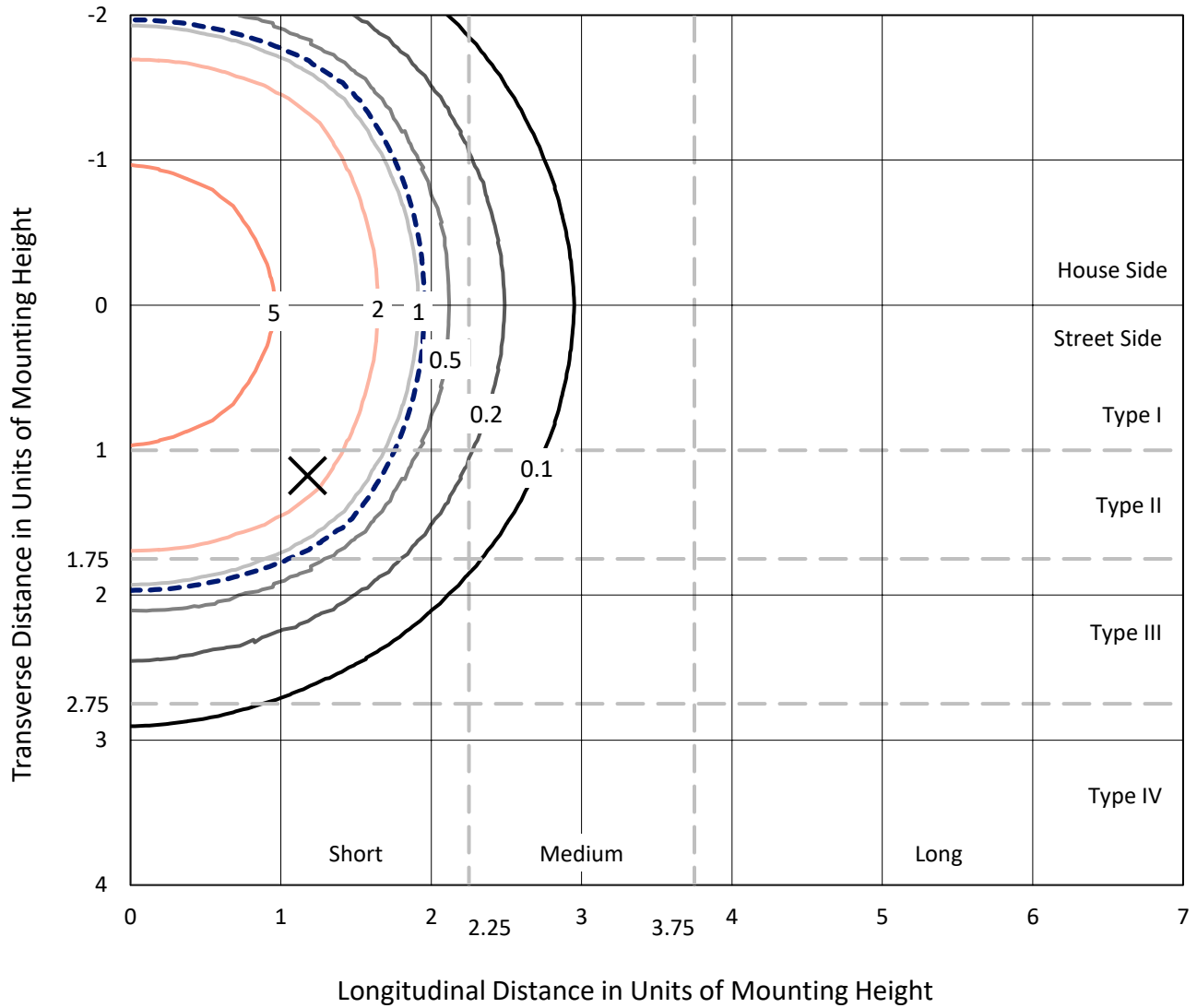
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

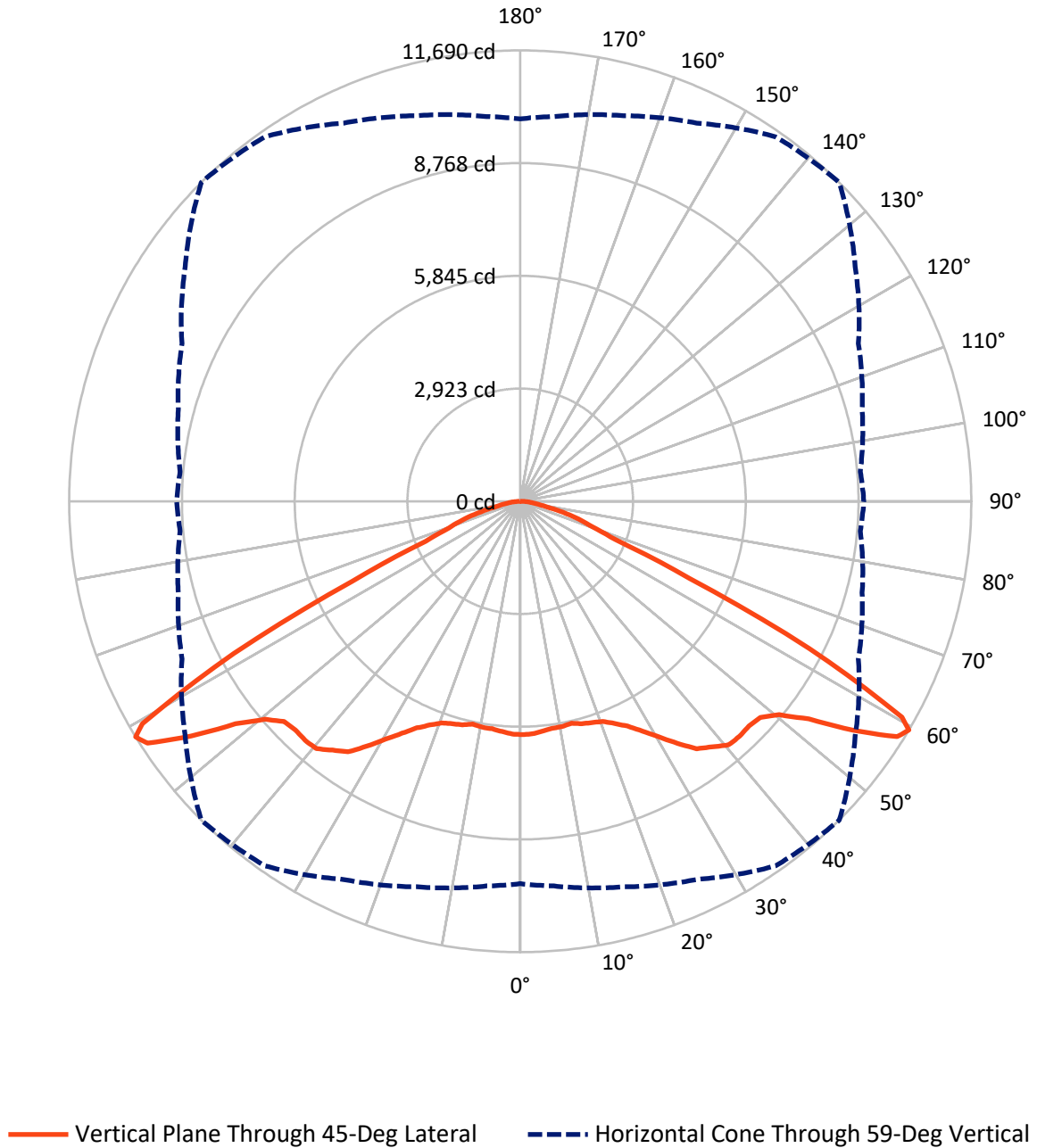
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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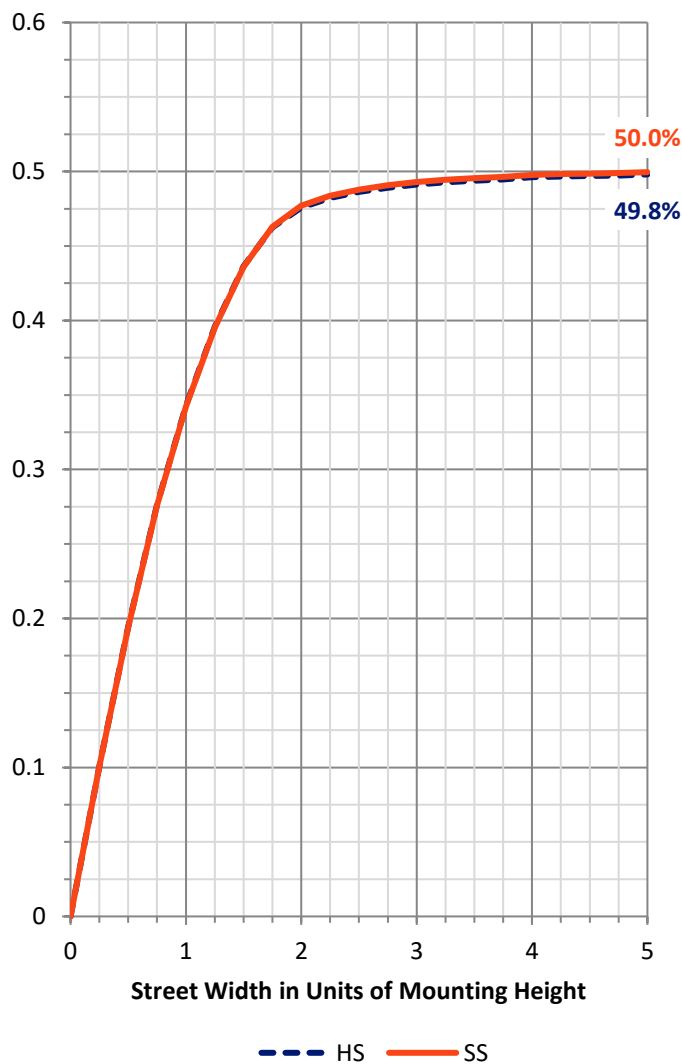
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15661.0	0.0	15661.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15661.0	0.0	15661.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31322.0	0.0	31322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.3	1.8
10°-20°	1696.0	5.4
20°-30°	2961.4	9.5
30°-40°	4729.8	15.1
40°-50°	6443.0	20.6
50°-60°	8712.6	27.8
60°-70°	4778.0	15.3
70°-80°	1222.4	3.9
80°-90°	208.5	0.7
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°	31322.0	100.0
0°-180°	31322.0	100.0

Coefficient of Utilization

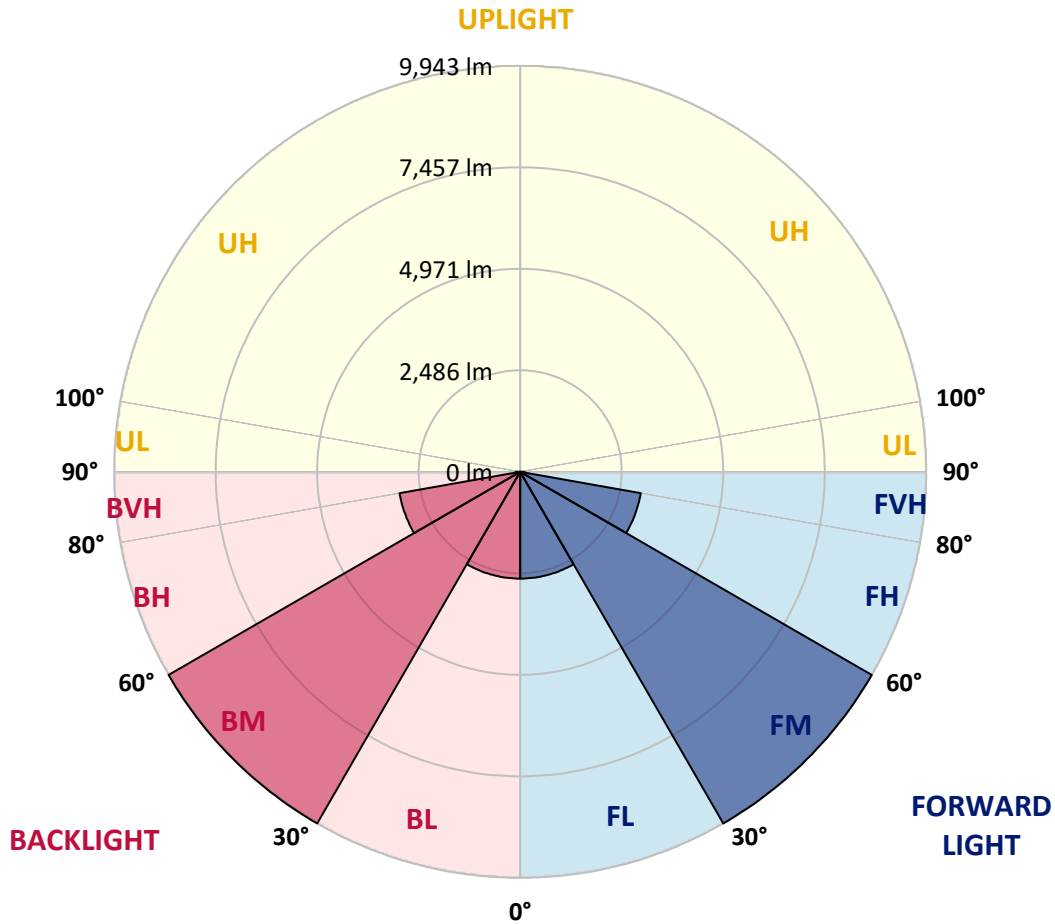


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.9	8.3			
FM (30°-60°)	9942.7	31.7			
FH (60°-80°)	3000.2	9.6			G2/5000
FVH (80°-90°)	104.2	0.3			G2/225
BL (0°-30°)	2613.9	8.3	B4/5000		
BM (30°-60°)	9942.7	31.7	B5		
BH (60°-80°)	3000.2	9.6	B4/5000		G2/5000
BVH (80°-90°)	104.2	0.3			G2/225
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°	6049.9	6049.9	6049.9	6049.9	6049.9	6049.9	6049.9	6049.9	6049.9	6049.9	6049.9
2.5°	6013.8	6057.9	6025.8	6053.9	6049.9	6037.9	6017.8	6005.8	5989.7	6013.8	5973.6
5°	5989.7	6025.8	6062.0	6013.8	6013.8	5989.7	5977.7	5953.6	5953.6	5949.5	5945.5
7.5°	6029.8	5993.7	5977.7	5985.7	5993.7	5941.5	5977.7	5929.5	5889.3	5917.4	5949.5
10°	5993.7	6009.8	5949.5	5977.7	5933.5	5941.5	5917.4	5949.5	5905.4	5905.4	5905.4
12.5°	6029.8	5985.7	6005.8	5985.7	5973.6	5905.4	5937.5	5901.4	5897.4	5937.5	5901.4
15°	6102.1	6029.8	6013.8	5973.6	5985.7	5985.7	5953.6	5957.6	5913.4	5937.5	5945.5
17.5°	6078.0	6037.9	6025.8	5977.7	6017.8	6029.8	5969.6	5929.5	5957.6	5953.6	5949.5
20°	6098.1	6114.1	6102.1	6110.1	6126.2	6094.1	6037.9	5981.7	5945.5	5997.7	5993.7
22.5°	6226.6	6210.5	6202.5	6194.4	6222.5	6254.7	6178.4	6090.1	6090.1	6126.2	6142.2
25°	6330.9	6326.9	6322.9	6359.0	6455.4	6455.4	6359.0	6246.6	6218.5	6242.6	6222.5
27.5°	6483.5	6527.6	6511.6	6575.8	6716.3	6748.4	6620.0	6487.5	6411.2	6383.1	6419.3
30°	6832.7	6780.6	6792.6	6860.8	6985.3	7089.7	6893.0	6752.5	6648.1	6644.1	6660.1
32.5°	7065.6	7105.7	7141.9	7206.1	7402.8	7483.1	7246.2	7017.4	6953.2	6917.1	6929.1
35°	7531.3	7495.1	7487.1	7551.4	7748.1	7880.5	7583.5	7382.7	7298.4	7378.7	7378.7
37.5°	7972.9	7872.5	7796.2	7880.5	8061.2	8077.3	7824.3	7715.9	7671.8	7764.1	7760.1
40°	8181.6	8173.6	7997.0	8045.1	8286.0	8310.1	8073.2	7944.8	7936.7	8057.2	8177.6
42.5°	8398.4	8322.1	8145.5	8177.6	8326.2	8334.2	8109.4	8073.2	8161.6	8278.0	8286.0
45°	8434.5	8370.3	8257.9	8177.6	8286.0	8310.1	8177.6	8201.7	8209.7	8350.2	8350.2
47.5°	8506.8	8498.8	8434.5	8374.3	8394.4	8374.3	8290.0	8326.2	8446.6	8514.8	8482.7
50°	8707.5	8623.2	8687.5	8635.3	8639.3	8695.5	8619.2	8655.3	8631.3	8571.0	8530.9
52.5°	9149.1	9109.0	9165.2	9201.3	9241.5	9369.9	9281.6	9088.9	8908.3	8747.7	8743.7
55°	9795.5	9823.6	9932.0	10116.6	10273.2	10478.0	10052.4	9590.7	9301.7	9048.8	9064.8
57.5°	10405.7	10385.6	10534.2	10955.7	11413.3	11517.7	10682.7	10024.3	9554.6	9394.0	9325.8
59°	9915.9	10012.3	10349.5	10819.2	11537.8	11690.3	10598.4	9671.0	9173.2	8848.0	8904.3
60°	9145.1	9181.3	9482.3	10136.7	11108.2	11369.2	10032.3	9125.1	8462.7	8274.0	8358.3
62.5°	6463.4	6435.3	6652.1	7186.0	8057.2	8410.5	7459.0	6820.7	6403.2	6194.4	6242.6
65°	3436.4	3564.9	3653.2	3986.4	4448.1	4821.5	4428.0	4151.0	3918.2	3745.6	3741.6
67.5°	2320.4	2304.3	2324.4	2400.7	2557.3	2661.6	2653.6	2513.1	2493.0	2460.9	2497.0
70°	1955.1	1947.1	1910.9	1910.9	1943.0	1967.1	1995.2	2011.3	2043.4	2083.5	2079.5
72.5°	1585.7	1565.7	1541.6	1529.5	1569.7	1581.7	1617.9	1633.9	1662.0	1658.0	1694.1
75°	1047.8	1047.8	1075.9	1108.0	1120.1	1144.1	1148.2	1196.3	1196.3	1204.4	1172.2
77.5°	586.1	570.1	590.1	622.3	650.4	694.5	738.7	774.8	794.9	786.8	786.8
80°	341.2	341.2	361.3	397.4	433.6	473.7	505.8	533.9	554.0	546.0	529.9
82.5°	212.8	212.8	232.8	269.0	297.1	321.2	365.3	401.5	425.5	417.5	397.4
85°	108.4	108.4	132.5	156.6	192.7	208.8	204.7	188.7	184.7	164.6	164.6
87.5°	28.1	28.1	40.1	44.2	36.1	40.1	40.1	40.1	40.1	40.1	44.2
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)