

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: P457846

Luminaire Tested: **GALN-SA9B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45247 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

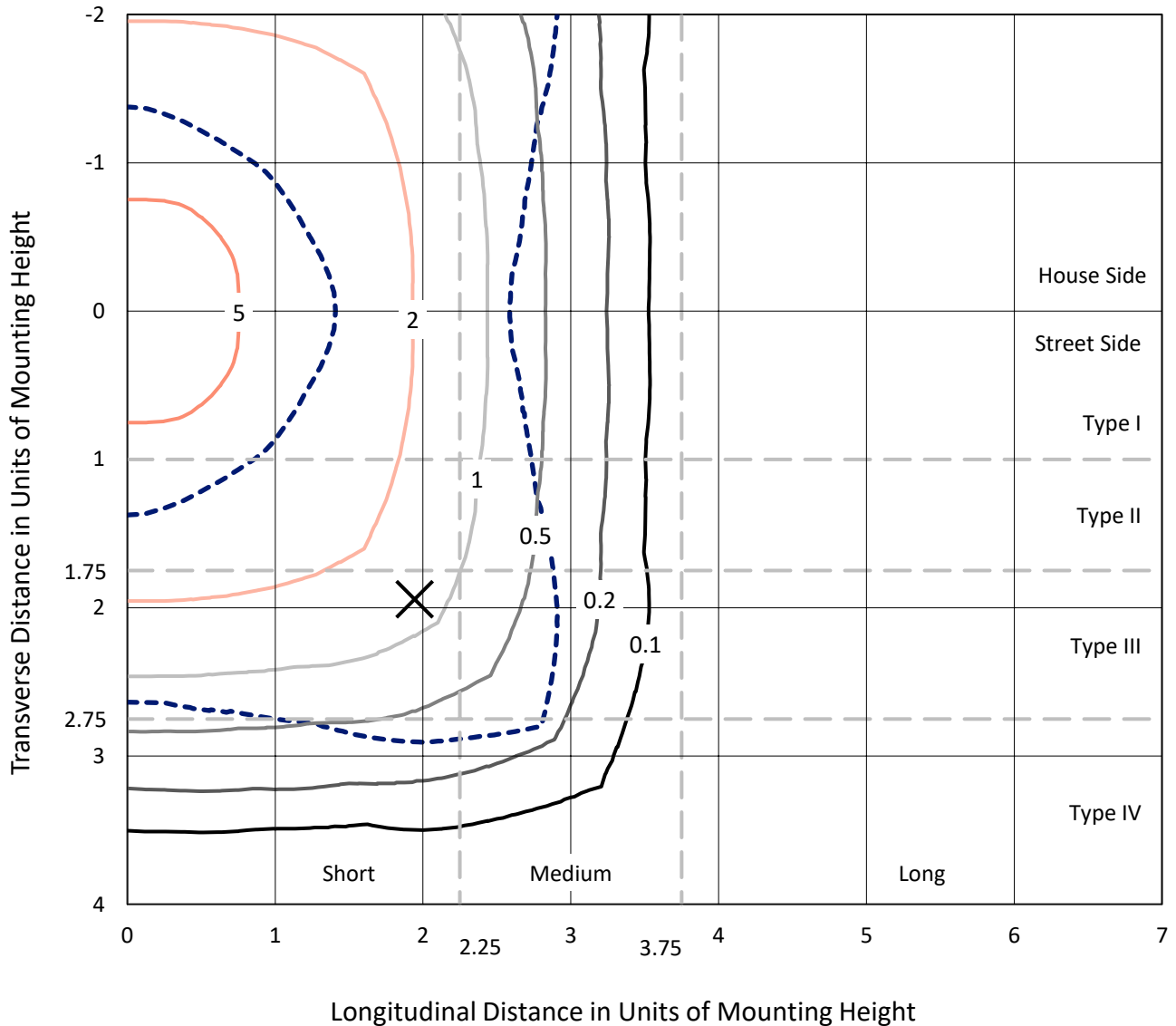
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457846
 CATALOG NUMBER: GALN-SA9B-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

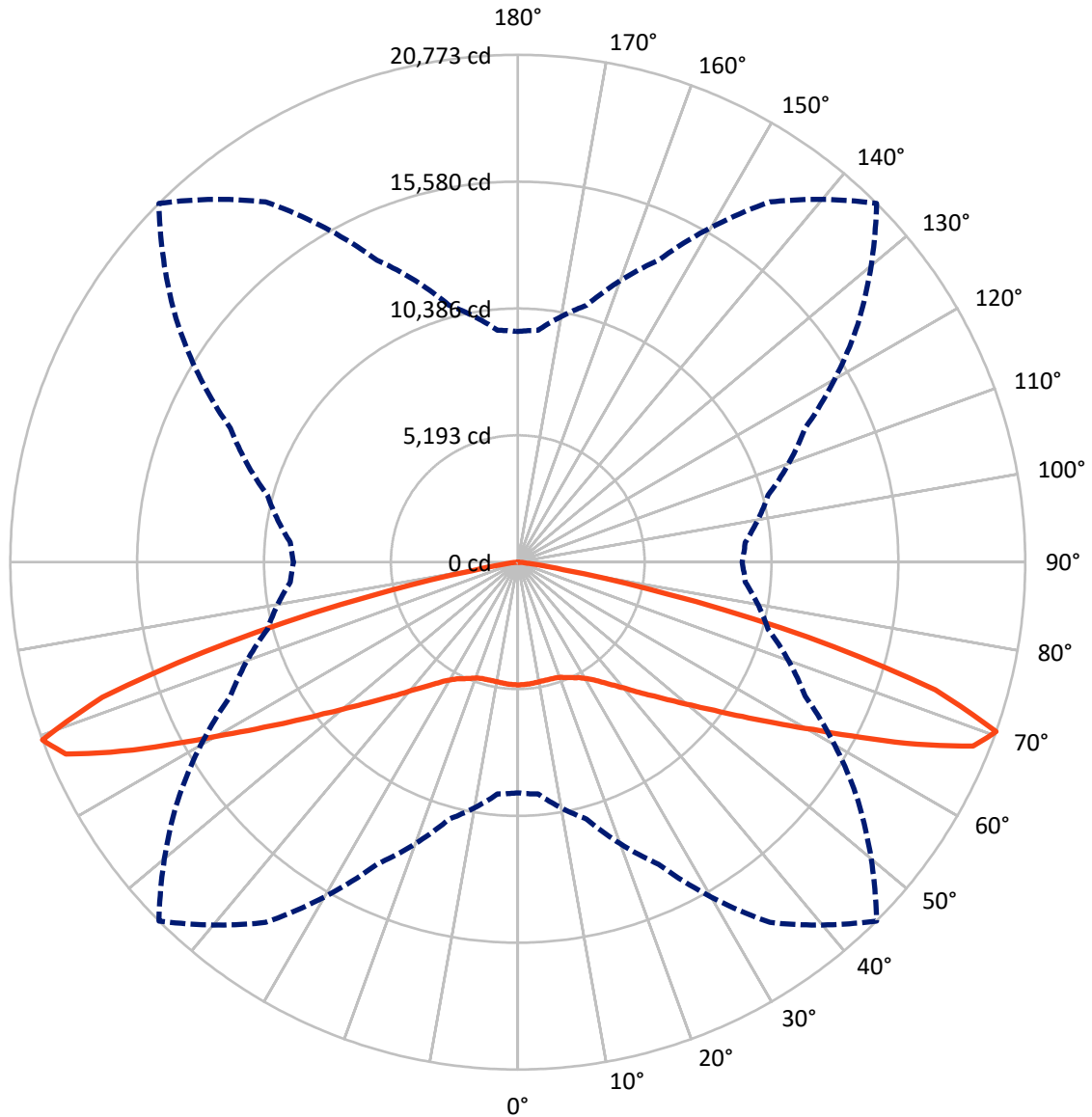
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

REPORT NUMBER: P457846
CATALOG NUMBER: GALN-SA9B-727-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P457846

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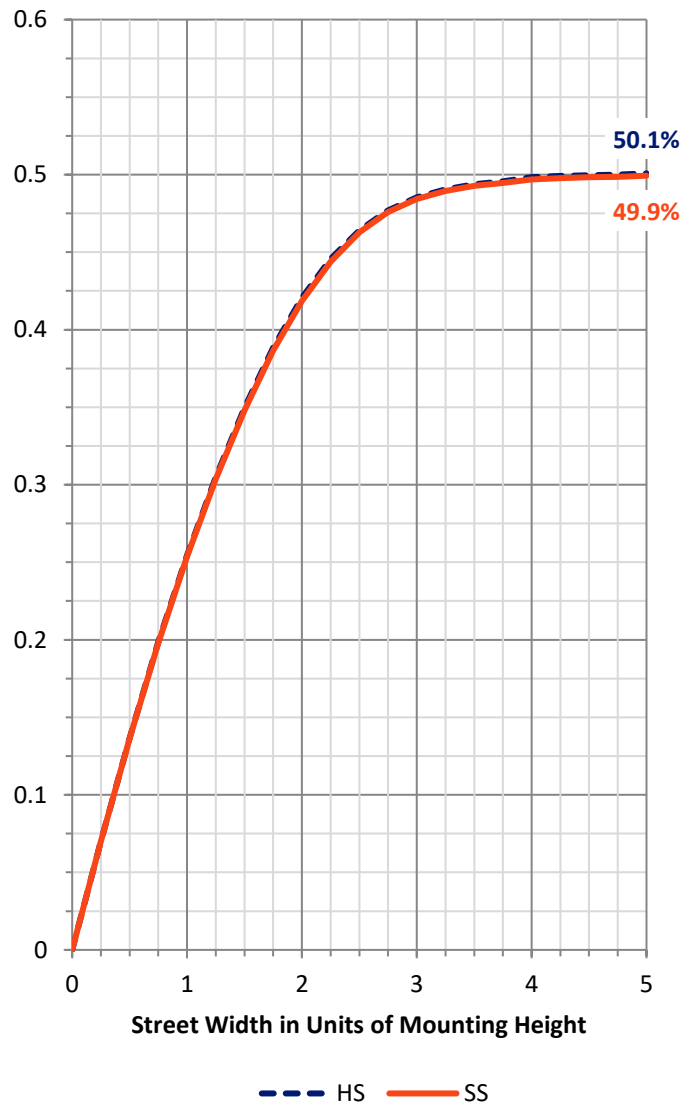
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22623.5	0.0	22623.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22623.5	0.0	22623.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45247.0	0.0	45247.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.5	1.1
10°-20°	1398.2	3.1
20°-30°	2391.3	5.3
30°-40°	3795.4	8.4
40°-50°	6123.1	13.5
50°-60°	9962.3	22.0
60°-70°	14441.8	31.9
70°-80°	6405.9	14.2
80°-90°	252.7	0.6
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°	45247.0	100.0
0°-180°	45247.0	100.0



REPORT NUMBER: P457846

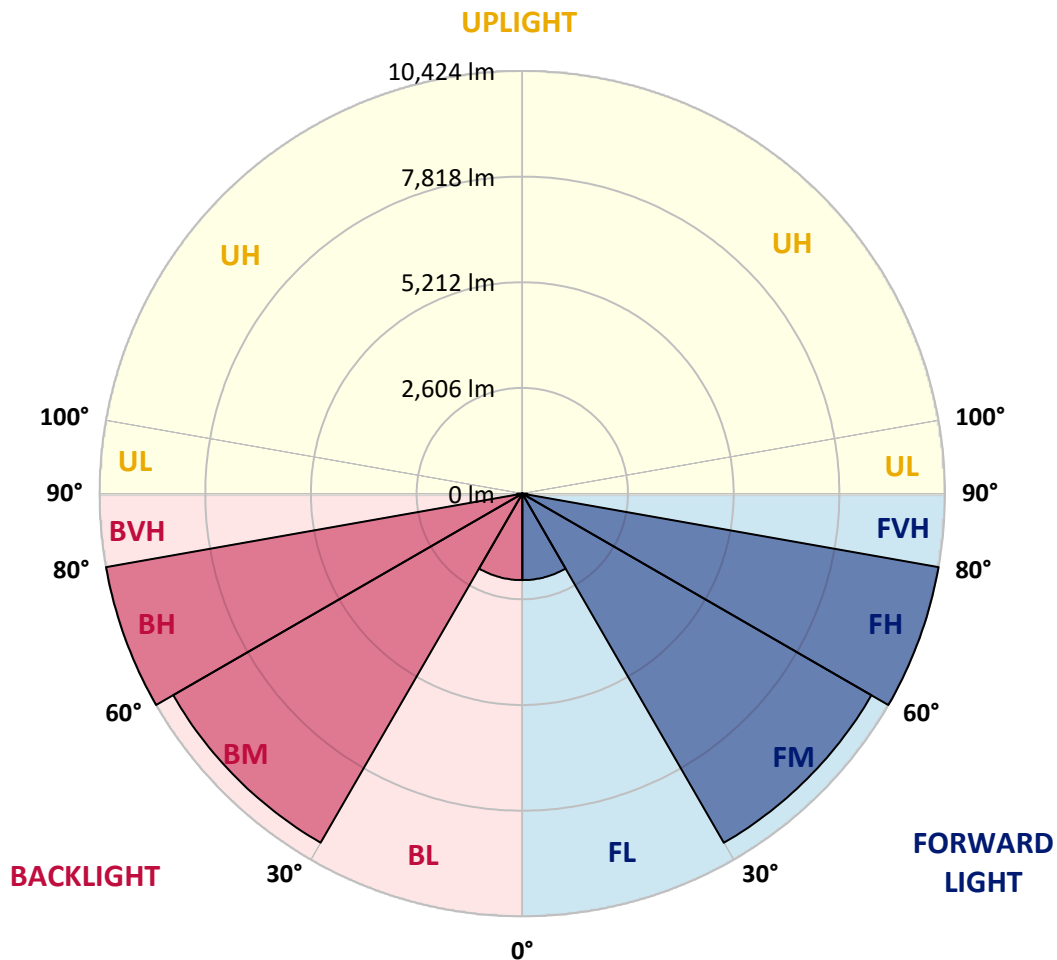
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2132.9	4.7			
FM	(30°-60°)	9940.4	22.0			
FH	(60°-80°)	10423.8	23.0			G4/12000
FVH	(80°-90°)	126.3	0.3			G2/225
BL	(0°-30°)	2132.9	4.7	B3/2500		
BM	(30°-60°)	9940.4	22.0	B5		
BH	(60°-80°)	10423.8	23.0	B5		G4/12000
BVH	(80°-90°)	126.3	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5024.5	5024.5	5024.5	5024.5	5024.5	5024.5	5024.5	5024.5	5024.5	5024.5	5024.5
2.5°	5024.5	5029.2	5022.1	5017.3	5014.9	5014.9	5012.5	5014.9	5029.2	5031.6	5024.5
5°	5010.2	5014.9	5012.5	5007.8	5005.4	5005.4	5003.0	5000.6	5012.5	5017.3	5014.9
7.5°	4991.1	4993.5	4991.1	4988.7	4991.1	4988.7	4981.5	4976.8	4986.3	4986.3	4983.9
10°	4957.7	4962.5	4960.1	4962.5	4967.2	4967.2	4957.7	4948.2	4950.5	4945.8	4945.8
12.5°	4917.2	4924.3	4926.7	4936.2	4948.2	4962.5	4941.0	4919.5	4914.8	4912.4	4910.0
15°	4890.9	4898.1	4907.6	4917.2	4938.6	4969.6	4938.6	4905.2	4895.7	4886.2	4881.4
17.5°	4883.8	4893.3	4907.6	4921.9	4950.5	4981.5	4955.3	4921.9	4898.1	4883.8	4879.0
20°	4902.8	4910.0	4931.5	4957.7	4998.2	5029.2	5003.0	4967.2	4931.5	4910.0	4902.8
22.5°	4941.0	4952.9	4979.2	5026.9	5084.1	5129.4	5093.6	5034.0	4976.8	4948.2	4938.6
25°	5024.5	5034.0	5065.0	5129.4	5196.2	5239.1	5200.9	5131.8	5053.1	5014.9	5003.0
27.5°	5150.9	5165.2	5198.5	5274.9	5329.7	5353.5	5327.3	5279.6	5222.4	5181.9	5172.3
30°	5329.7	5346.4	5396.5	5477.6	5513.3	5527.6	5515.7	5484.7	5444.2	5401.2	5391.7
32.5°	5570.6	5580.1	5637.3	5713.6	5747.0	5751.8	5737.5	5723.2	5656.4	5584.9	5580.1
35°	5840.0	5856.7	5925.9	6016.5	6047.5	6049.9	6021.3	5999.8	5921.1	5863.9	5863.9
37.5°	6197.7	6204.9	6271.6	6374.2	6407.6	6398.0	6383.7	6364.6	6281.2	6207.3	6209.6
40°	6617.4	6631.7	6689.0	6808.2	6808.2	6796.3	6805.8	6791.5	6708.0	6636.5	6638.9
42.5°	7115.8	7123.0	7192.1	7318.5	7309.0	7285.1	7294.7	7275.6	7223.1	7142.0	7113.4
45°	7647.6	7676.2	7795.4	7917.1	7898.0	7821.7	7859.8	7855.1	7807.4	7685.7	7692.9
47.5°	8289.1	8336.8	8451.2	8596.7	8575.2	8456.0	8498.9	8527.5	8460.8	8327.2	8303.4
50°	9011.6	9042.6	9211.9	9347.8	9328.8	9202.4	9300.2	9304.9	9138.0	8949.6	8949.6
52.5°	9781.9	9812.9	10041.8	10254.0	10265.9	10082.3	10161.0	10156.2	9884.4	9636.4	9588.7
55°	10645.1	10659.4	10955.1	11267.5	11334.3	11155.4	11165.0	11069.6	10716.6	10428.1	10401.9
57.5°	11537.0	11589.4	11916.1	12321.5	12519.4	12409.7	12359.7	12104.5	11763.5	11432.0	11415.3
60°	12524.2	12526.6	12951.1	13430.4	13831.0	13904.9	13699.8	13358.8	12917.7	12478.9	12459.8
62.5°	13208.6	13311.1	13847.7	14658.5	15376.2	15791.2	15249.9	14534.5	13666.5	12958.2	12886.7
65°	13349.3	13418.4	14236.4	15609.9	17076.5	17970.8	16718.8	15197.4	13716.5	12772.2	12724.5
67.5°	12211.8	12285.7	13387.4	15495.5	18268.8	20102.6	17672.7	14877.9	12867.6	11699.1	11606.1
70°	9445.6	9529.1	10890.7	13640.2	18004.1	20772.7	16993.0	12977.3	10611.7	9350.2	9180.9
72.5°	5022.1	5329.7	6493.4	9362.2	14613.2	17884.9	13933.5	9469.5	6844.0	5594.4	5370.2
75°	1833.8	1872.0	2520.6	4151.7	8501.3	12264.3	8828.0	4516.5	2596.9	2005.5	1903.0
77.5°	758.3	755.9	829.9	1254.3	3088.1	6281.2	3445.8	1325.9	827.5	765.5	755.9
80°	448.3	448.3	493.6	522.2	813.2	1895.8	908.6	591.4	496.0	453.1	460.2
82.5°	200.3	212.2	312.4	329.1	393.5	519.9	438.8	376.8	324.3	224.2	202.7
85°	109.7	95.4	164.5	171.7	188.4	193.2	207.5	205.1	188.4	109.7	112.1
87.5°	21.5	26.2	47.7	35.8	40.5	35.8	47.7	66.8	69.2	38.2	31.0
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)