

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: P459267

Luminaire Tested: **GALN-SA7C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459267
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-SA7C-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47843 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

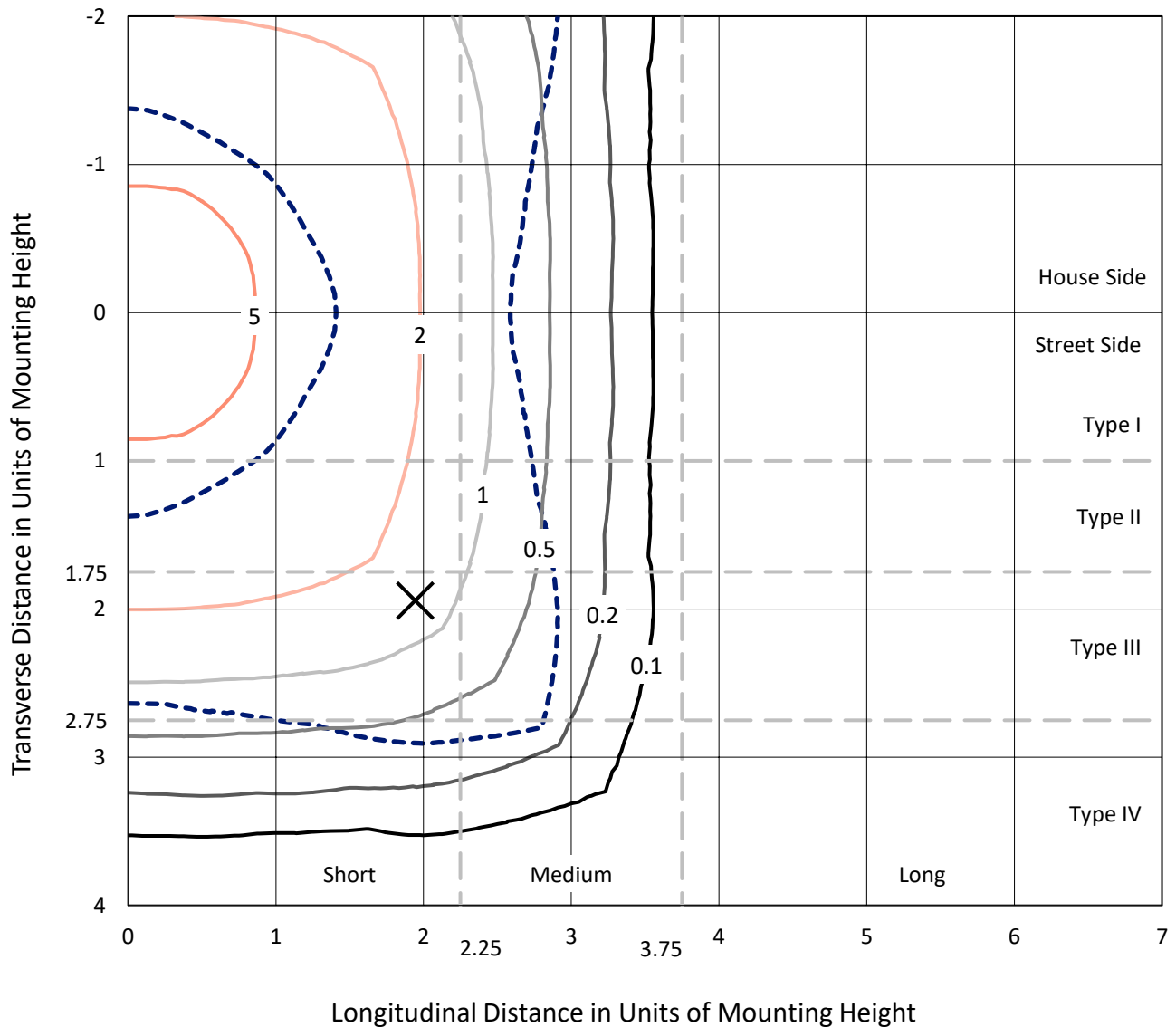
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459267
 CATALOG NUMBER: GALN-SA7C-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

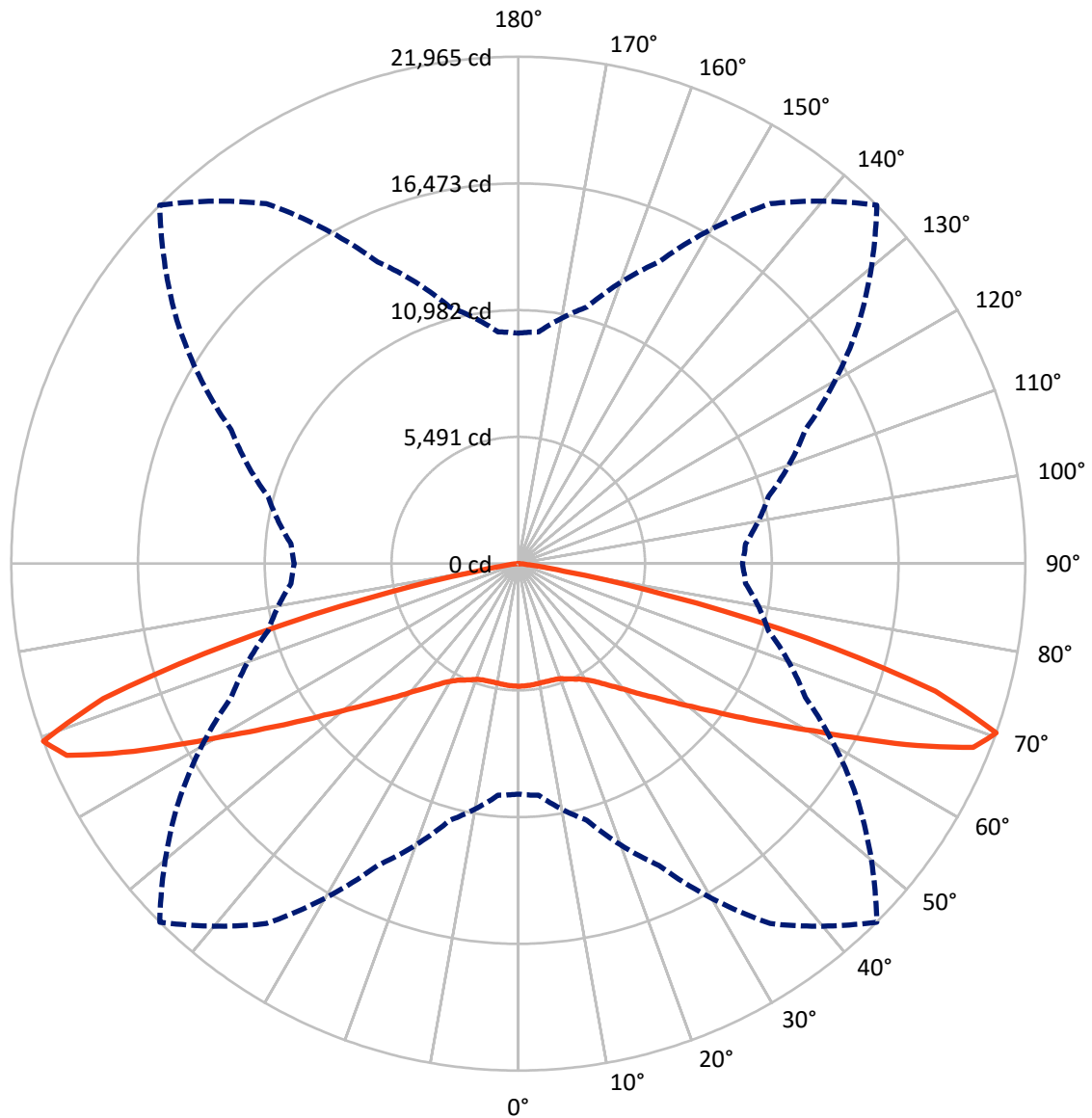
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type V - Short - N/A

REPORT NUMBER: P459267
CATALOG NUMBER: GALN-SA7C-735-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459267

CATALOG NUMBER: GALN-SA7C-735-U-5MQ

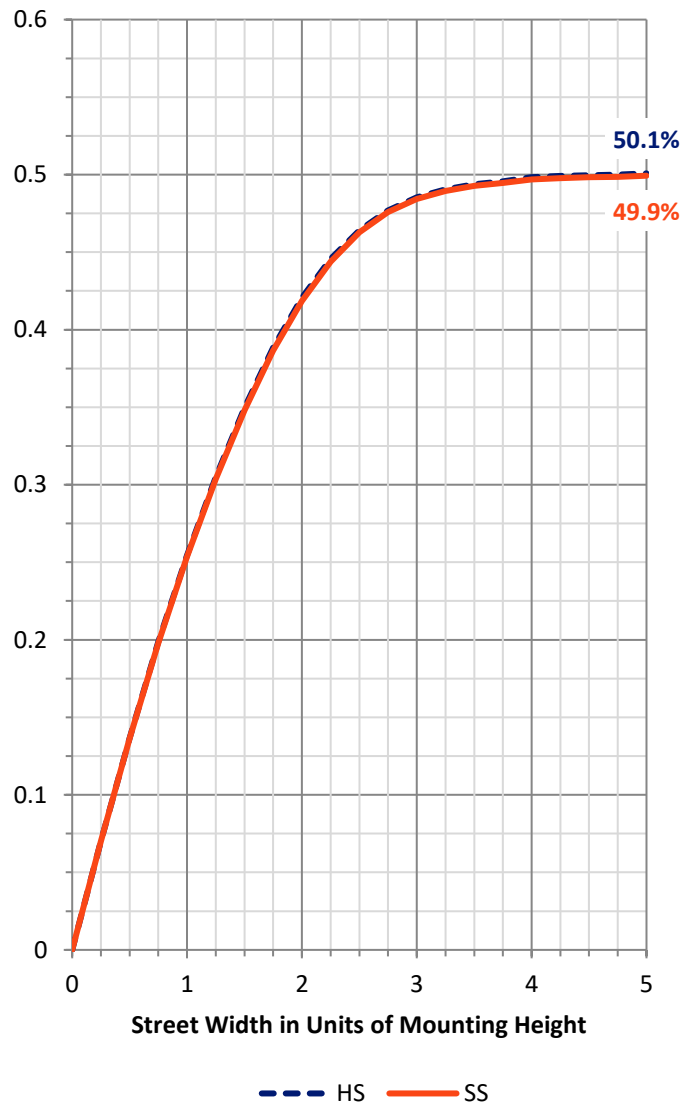
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23921.5	0.0	23921.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23921.5	0.0	23921.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47843.0	0.0	47843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.8	1.1
10°-20°	1478.4	3.1
20°-30°	2528.5	5.3
30°-40°	4013.2	8.4
40°-50°	6474.4	13.5
50°-60°	10533.9	22.0
60°-70°	15270.4	31.9
70°-80°	6773.4	14.2
80°-90°	267.1	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°	47843.0	100.0
0°-180°	47843.0	100.0



REPORT NUMBER: P459267

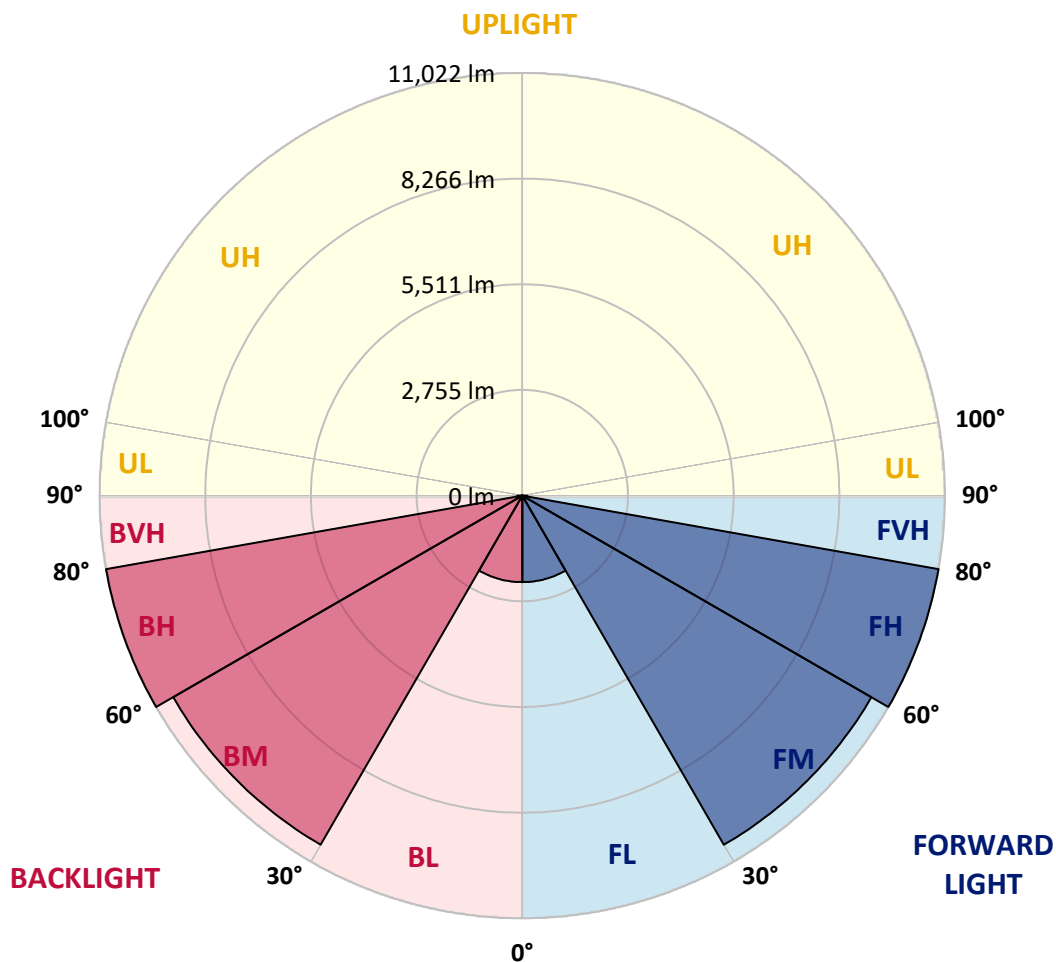
CATALOG NUMBER: GALN-SA7C-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2255.3	4.7			
FM	(30°-60°)	10510.7	22.0			
FH	(60°-80°)	11021.9	23.0			G4/12000
FVH	(80°-90°)	133.6	0.3			G2/225
BL	(0°-30°)	2255.3	4.7	B3/2500		
BM	(30°-60°)	10510.7	22.0	B5		
BH	(60°-80°)	11021.9	23.0	B5		G4/12000
BVH	(80°-90°)	133.6	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





REPORT NUMBER: P459267

CATALOG NUMBER: GALN-SA7C-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7
2.5°	5312.7	5317.8	5310.2	5305.2	5302.7	5302.7	5300.1	5302.7	5317.8	5320.3	5312.7
5°	5297.6	5302.7	5300.1	5295.1	5292.6	5292.6	5290.0	5287.5	5300.1	5305.2	5302.7
7.5°	5277.4	5280.0	5277.4	5274.9	5277.4	5274.9	5267.4	5262.3	5272.4	5272.4	5269.9
10°	5242.1	5247.2	5244.7	5247.2	5252.2	5252.2	5242.1	5232.1	5234.6	5229.5	5229.5
12.5°	5199.3	5206.8	5209.4	5219.4	5232.1	5247.2	5224.5	5201.8	5196.8	5194.2	5191.7
15°	5171.5	5179.1	5189.2	5199.3	5222.0	5254.7	5222.0	5186.7	5176.6	5166.5	5161.5
17.5°	5164.0	5174.1	5189.2	5204.3	5234.6	5267.4	5239.6	5204.3	5179.1	5164.0	5158.9
20°	5184.1	5191.7	5214.4	5242.1	5285.0	5317.8	5290.0	5252.2	5214.4	5191.7	5184.1
22.5°	5224.5	5237.1	5264.8	5315.3	5375.8	5423.7	5385.9	5322.8	5262.3	5232.1	5222.0
25°	5312.7	5322.8	5355.6	5423.7	5494.3	5539.7	5499.3	5426.2	5343.0	5302.7	5290.0
27.5°	5446.4	5461.5	5496.8	5577.5	5635.5	5660.7	5633.0	5582.5	5522.0	5479.2	5469.1
30°	5635.5	5653.1	5706.1	5791.8	5829.6	5844.8	5832.2	5799.4	5756.5	5711.1	5701.0
32.5°	5890.2	5900.2	5960.8	6041.4	6076.7	6081.8	6066.7	6051.5	5980.9	5905.3	5900.2
35°	6175.1	6192.7	6265.9	6361.7	6394.5	6397.0	6366.7	6344.0	6260.8	6200.3	6200.3
37.5°	6553.3	6560.9	6631.5	6739.9	6775.2	6765.1	6750.0	6729.8	6641.6	6563.4	6565.9
40°	6997.1	7012.2	7072.7	7198.8	7198.8	7186.2	7196.3	7181.1	7092.9	7017.3	7019.8
42.5°	7524.1	7531.6	7604.8	7738.4	7728.3	7703.1	7713.2	7693.0	7637.5	7551.8	7521.5
45°	8086.4	8116.6	8242.7	8371.3	8351.1	8270.4	8310.8	8305.7	8255.3	8126.7	8134.3
47.5°	8764.6	8815.1	8936.1	9089.9	9067.2	8941.1	8986.5	9016.8	8946.2	8805.0	8779.8
50°	9528.6	9561.4	9740.4	9884.2	9864.0	9730.4	9833.7	9838.8	9662.3	9463.1	9463.1
52.5°	10343.1	10375.9	10617.9	10842.3	10854.9	10660.8	10744.0	10738.9	10451.5	10189.3	10138.8
55°	11255.8	11271.0	11583.6	11914.0	11984.6	11795.4	11805.5	11704.7	11331.5	11026.4	10998.7
57.5°	12198.9	12254.3	12599.8	13028.4	13237.7	13121.7	13068.8	12799.0	12438.4	12087.9	12070.3
60°	13242.8	13245.3	13694.1	14200.9	14624.5	14702.7	14485.9	14125.3	13658.8	13194.9	13174.7
62.5°	13966.4	14074.9	14642.2	15499.5	16258.4	16697.2	16124.8	15368.4	14450.6	13701.7	13626.0
65°	14115.2	14188.3	15053.2	16505.6	18056.3	19001.8	17678.0	16069.3	14503.5	13505.0	13454.6
67.5°	12912.5	12990.6	14155.5	16384.5	19317.0	21256.0	18686.6	15731.5	13605.9	12370.3	12272.0
70°	9987.5	10075.8	11515.6	14422.8	19037.1	21964.5	17968.0	13721.8	11220.5	9886.7	9707.7
72.5°	5310.2	5635.5	6866.0	9899.3	15451.6	18911.0	14733.0	10012.8	7236.6	5915.4	5678.4
75°	1939.0	1979.4	2665.2	4389.9	8989.0	12967.9	9334.5	4775.7	2745.9	2120.6	2012.1
77.5°	801.8	799.3	877.5	1326.3	3265.3	6641.6	3643.5	1401.9	875.0	809.4	799.3
80°	474.0	474.0	521.9	552.2	859.8	2004.6	960.7	625.3	524.5	479.1	486.6
82.5°	211.8	224.4	330.3	348.0	416.0	549.7	464.0	398.4	342.9	237.0	214.3
85°	116.0	100.9	174.0	181.5	199.2	204.2	219.4	216.8	199.2	116.0	118.5
87.5°	22.7	27.7	50.4	37.8	42.9	37.8	50.4	70.6	73.1	40.3	32.8
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)