

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: P459238

Luminaire Tested: **GALN-SA7B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459238
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-SA7B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 38722 lumens
Efficiency: N/A
Efficacy: 135.4 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

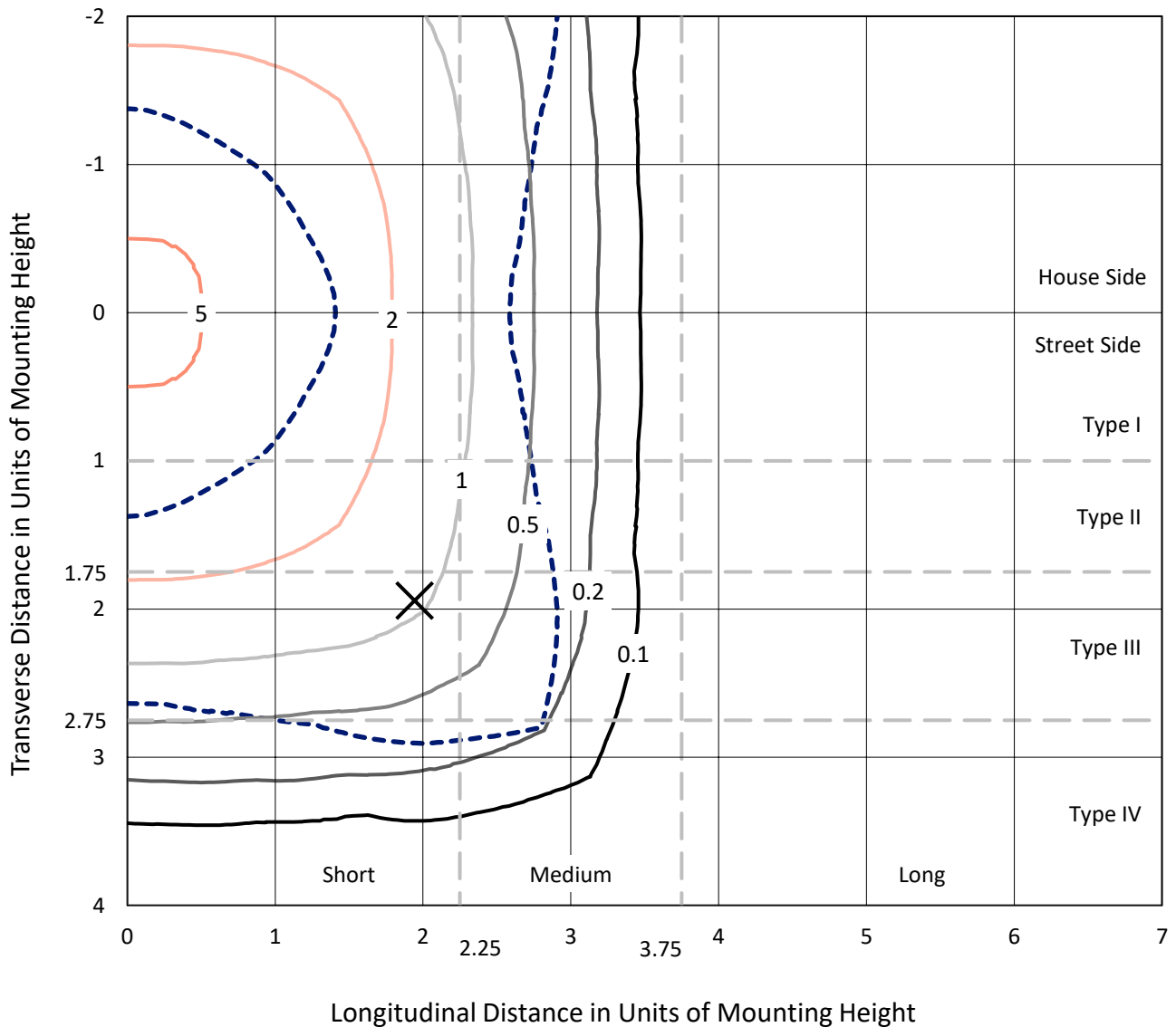
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459238
 CATALOG NUMBER: GALN-SA7B-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

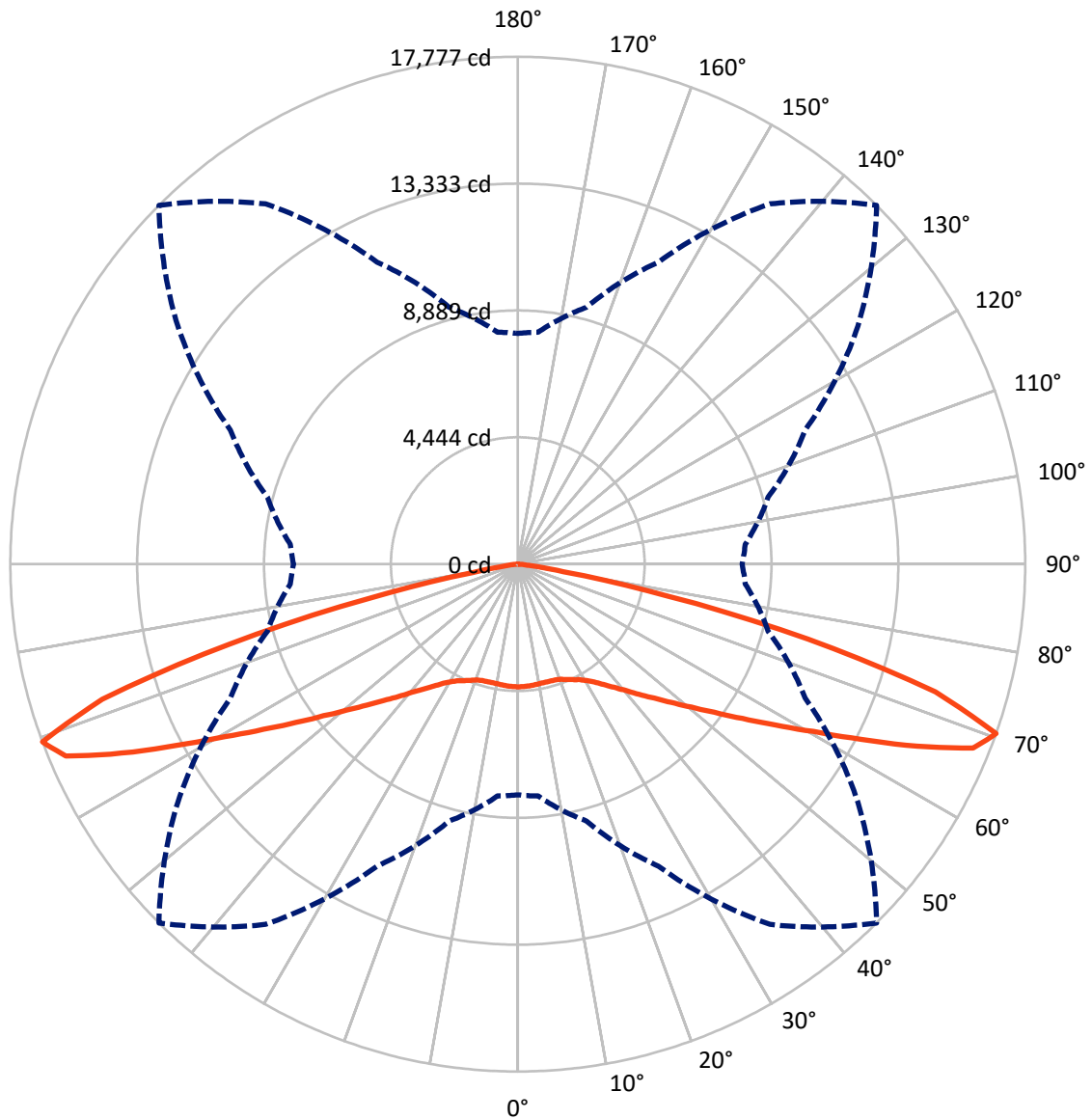
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

REPORT NUMBER: P459238
CATALOG NUMBER: GALN-SA7B-735-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459238

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19361.0	0.0	19361.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19361.0	0.0	19361.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38722.0	0.0	38722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	1.1
10°-20°	1196.5	3.1
20°-30°	2046.4	5.3
30°-40°	3248.1	8.4
40°-50°	5240.1	13.5
50°-60°	8525.7	22.0
60°-70°	12359.2	31.9
70°-80°	5482.1	14.2
80°-90°	216.2	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°	38722.0	100.0
0°-180°	38722.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459238

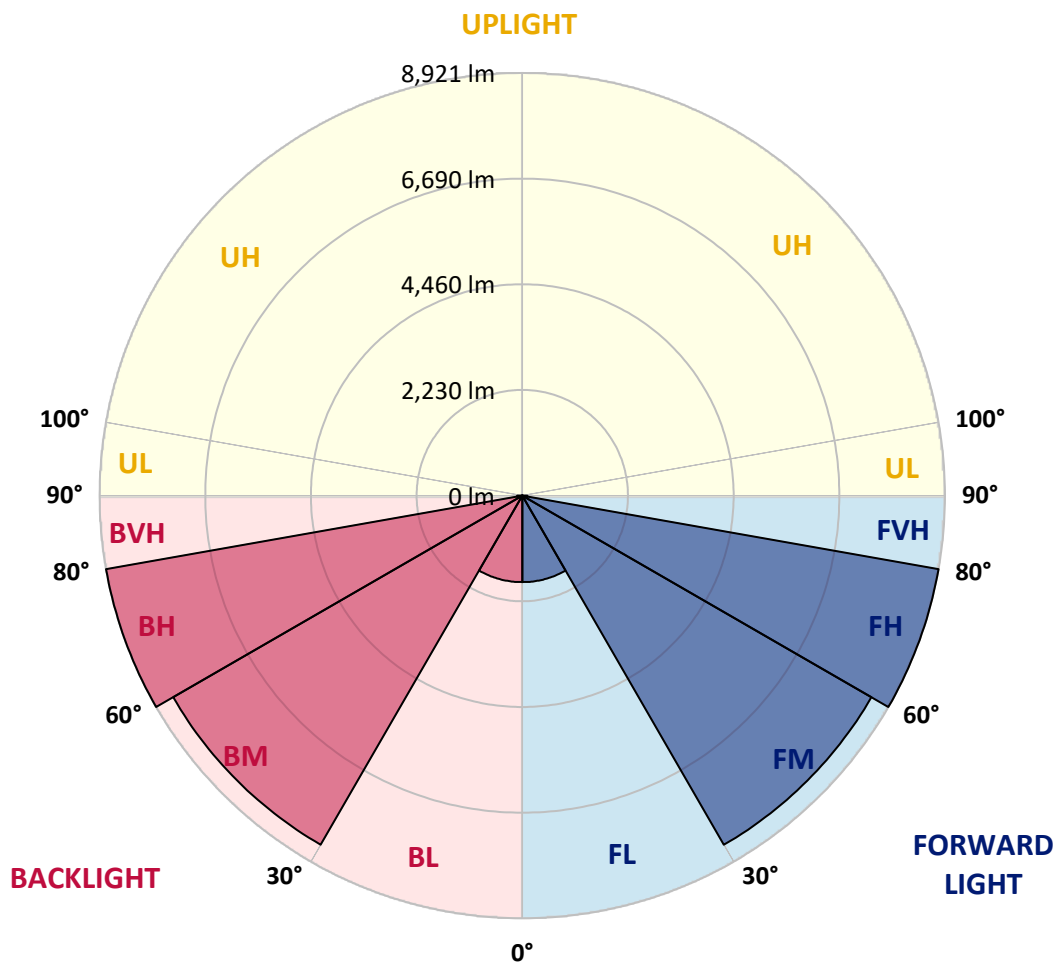
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.3	4.7			
FM (30°-60°)	8506.9	22.0			
FH (60°-80°)	8920.6	23.0			G4/12000
FVH (80°-90°)	108.1	0.3			G2/225
BL (0°-30°)	1825.3	4.7	B3/2500		
BM (30°-60°)	8506.9	22.0	B5		
BH (60°-80°)	8920.6	23.0	B5		G4/12000
BVH (80°-90°)	108.1	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°	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9
2.5°	4299.9	4304.0	4297.9	4293.8	4291.7	4291.7	4289.7	4291.7	4304.0	4306.0	4299.9
5°	4287.7	4291.7	4289.7	4285.6	4283.6	4283.6	4281.5	4279.5	4289.7	4293.8	4291.7
7.5°	4271.3	4273.4	4271.3	4269.3	4271.3	4269.3	4263.2	4259.1	4267.2	4267.2	4265.2
10°	4242.8	4246.8	4244.8	4246.8	4250.9	4250.9	4242.8	4234.6	4236.6	4232.6	4232.6
12.5°	4208.1	4214.2	4216.2	4224.4	4234.6	4246.8	4228.5	4210.1	4206.0	4204.0	4201.9
15°	4185.6	4191.7	4199.9	4208.1	4226.4	4253.0	4226.4	4197.9	4189.7	4181.5	4177.4
17.5°	4179.5	4187.7	4199.9	4212.1	4236.6	4263.2	4240.7	4212.1	4191.7	4179.5	4175.4
20°	4195.8	4201.9	4220.3	4242.8	4277.4	4304.0	4281.5	4250.9	4220.3	4201.9	4195.8
22.5°	4228.5	4238.7	4261.1	4301.9	4350.9	4389.7	4359.1	4308.1	4259.1	4234.6	4226.4
25°	4299.9	4308.1	4334.6	4389.7	4446.8	4483.6	4450.9	4391.7	4324.4	4291.7	4281.5
27.5°	4408.1	4420.3	4448.9	4514.2	4561.1	4581.5	4559.1	4518.3	4469.3	4434.6	4426.4
30°	4561.1	4575.4	4618.3	4687.6	4718.3	4730.5	4720.3	4693.8	4659.1	4622.3	4614.2
32.5°	4767.2	4775.4	4824.4	4889.7	4918.2	4922.3	4910.1	4897.8	4840.7	4779.5	4775.4
35°	4997.8	5012.1	5071.3	5148.9	5175.4	5177.4	5152.9	5134.6	5067.2	5018.2	5018.2
37.5°	5304.0	5310.1	5367.2	5455.0	5483.5	5475.4	5463.1	5446.8	5375.4	5312.1	5314.2
40°	5663.1	5675.4	5724.4	5826.4	5826.4	5816.2	5824.3	5812.1	5740.7	5679.5	5681.5
42.5°	6089.6	6095.8	6155.0	6263.1	6255.0	6234.5	6242.7	6226.4	6181.5	6112.1	6087.6
45°	6544.7	6569.2	6671.3	6775.3	6759.0	6693.7	6726.4	6722.3	6681.5	6577.4	6583.5
47.5°	7093.7	7134.5	7232.5	7357.0	7338.6	7236.6	7273.3	7297.8	7240.6	7126.4	7105.9
50°	7712.1	7738.6	7883.5	7999.8	7983.5	7875.3	7959.0	7963.1	7820.2	7659.0	7659.0
52.5°	8371.2	8397.8	8593.7	8775.3	8785.5	8628.4	8695.7	8691.6	8459.0	8246.7	8205.9
55°	9110.0	9122.2	9375.3	9642.6	9699.8	9546.7	9554.9	9473.2	9171.2	8924.3	8901.8
57.5°	9873.2	9918.1	10197.7	10544.6	10714.0	10620.2	10577.3	10358.9	10067.1	9783.4	9769.2
60°	10718.1	10720.1	11083.4	11493.6	11836.4	11899.7	11724.2	11432.4	11054.8	10679.3	10663.0
62.5°	11303.8	11391.6	11850.7	12544.6	13158.9	13514.0	13050.7	12438.5	11695.6	11089.5	11028.3
65°	11424.2	11483.4	12183.4	13358.9	14613.9	15379.2	14307.8	13005.8	11738.5	10930.3	10889.5
67.5°	10450.8	10514.0	11456.9	13260.9	15634.3	17203.7	15124.1	12732.3	11012.0	10012.0	9932.4
70°	8083.5	8154.9	9320.2	11673.2	15407.8	17777.1	14542.5	11105.9	9081.4	8001.8	7857.0
72.5°	4297.9	4561.1	5557.0	8012.1	12505.8	15305.8	11924.2	8103.9	5857.0	4787.6	4595.8
75°	1569.3	1602.0	2157.1	3553.0	7275.3	10495.7	7554.9	3865.2	2222.4	1716.3	1628.5
77.5°	649.0	646.9	710.2	1073.4	2642.8	5375.4	2948.9	1134.7	708.1	655.1	646.9
80°	383.7	383.7	422.4	446.9	695.9	1622.4	777.5	506.1	424.5	387.7	393.9
82.5°	171.4	181.6	267.3	281.6	336.7	444.9	375.5	322.4	277.5	191.8	173.5
85°	93.9	81.6	140.8	146.9	161.2	165.3	177.5	175.5	161.2	93.9	95.9
87.5°	18.4	22.4	40.8	30.6	34.7	30.6	40.8	57.1	59.2	32.7	26.5
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)