

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: P459298

Luminaire Tested: **GALN-SA7D-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52533 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

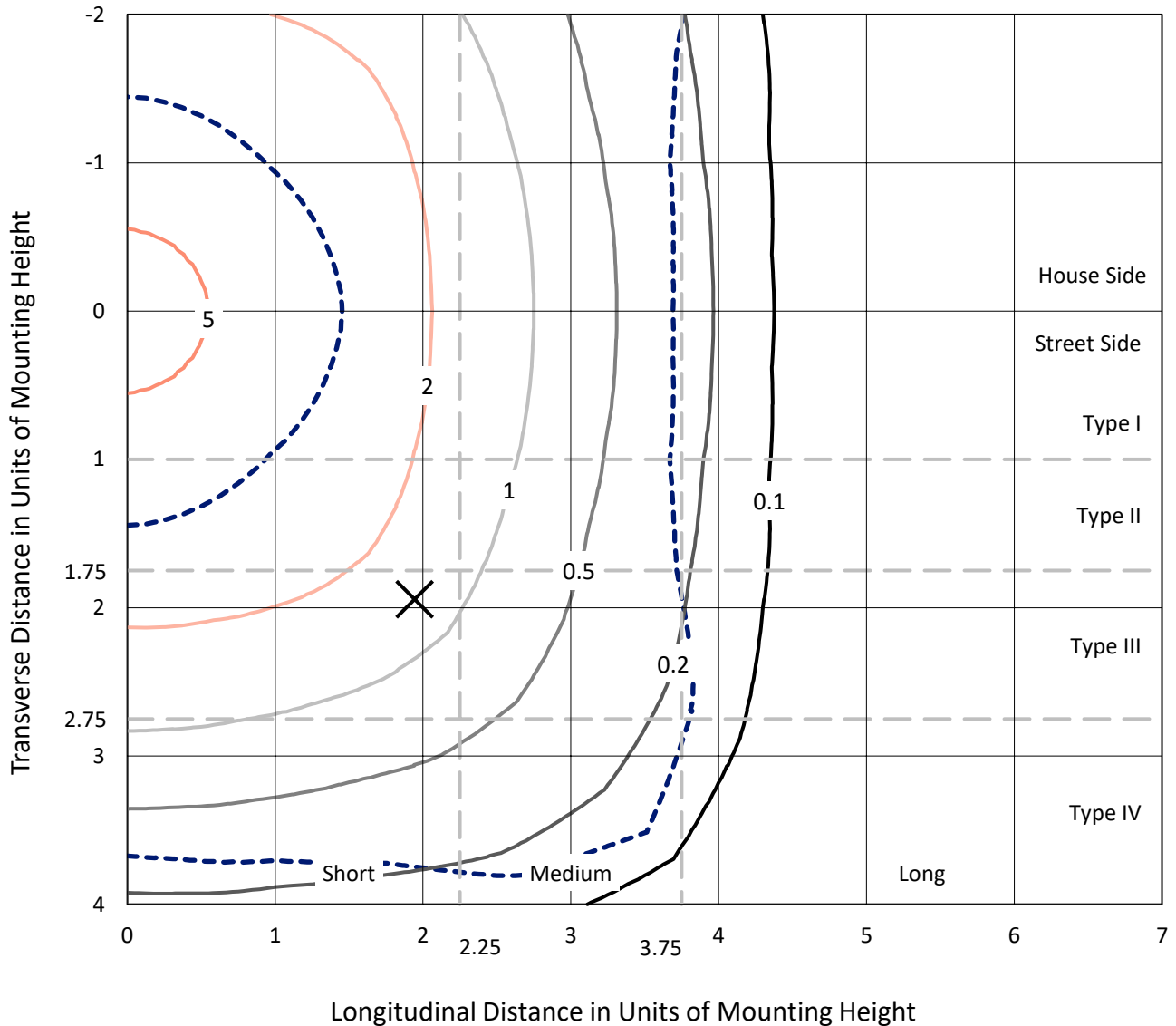
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

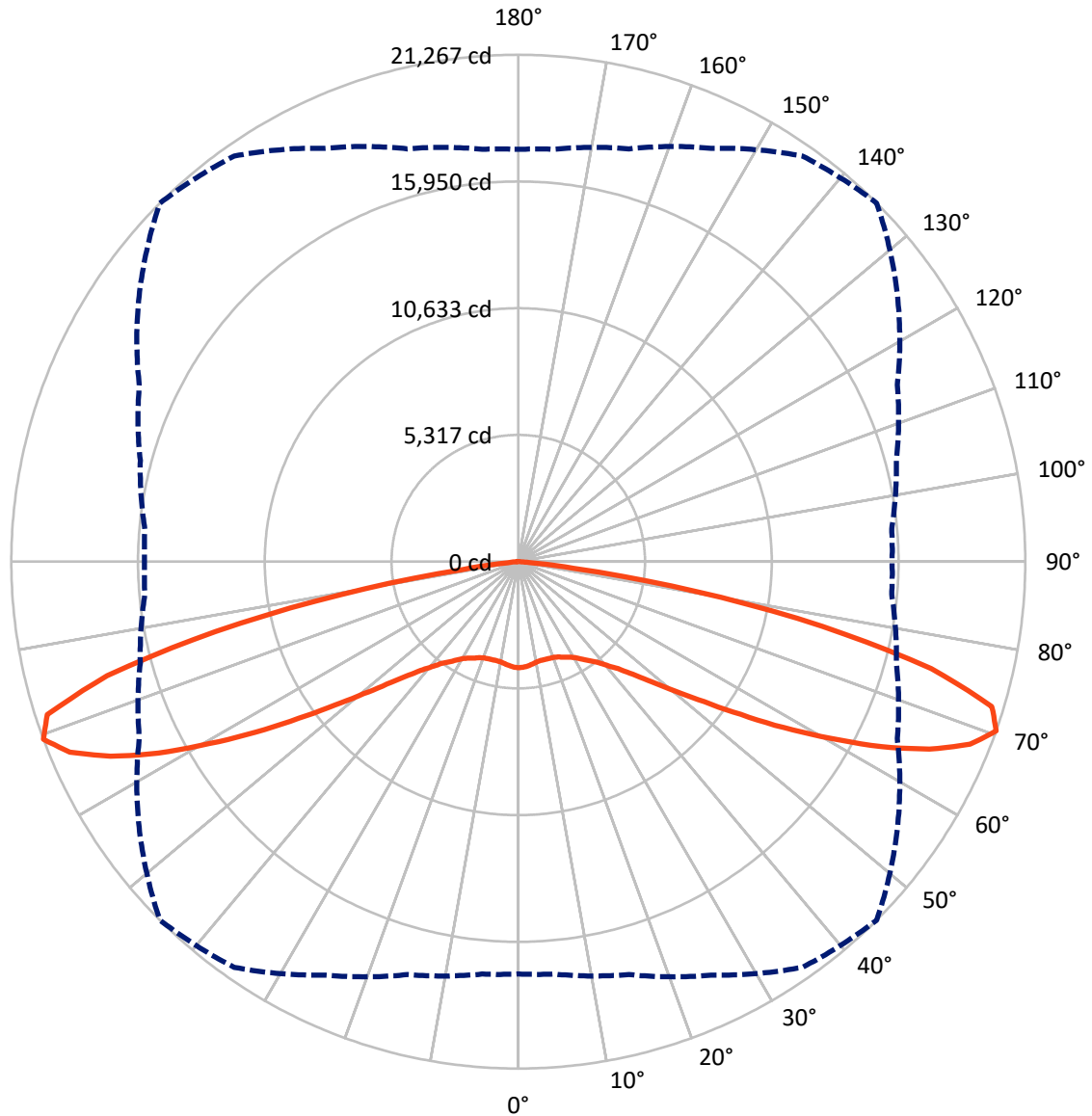
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26266.5	0.0	26266.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26266.5	0.0	26266.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52533.0	0.0	52533.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.9	0.8
10°-20°	1217.7	2.3
20°-30°	2074.6	3.9
30°-40°	3215.6	6.1
40°-50°	5412.3	10.3
50°-60°	9847.5	18.7
60°-70°	16671.6	31.7
70°-80°	12904.5	24.6
80°-90°	773.3	1.5
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°	52533.0	100.0
0°-180°	52533.0	100.0



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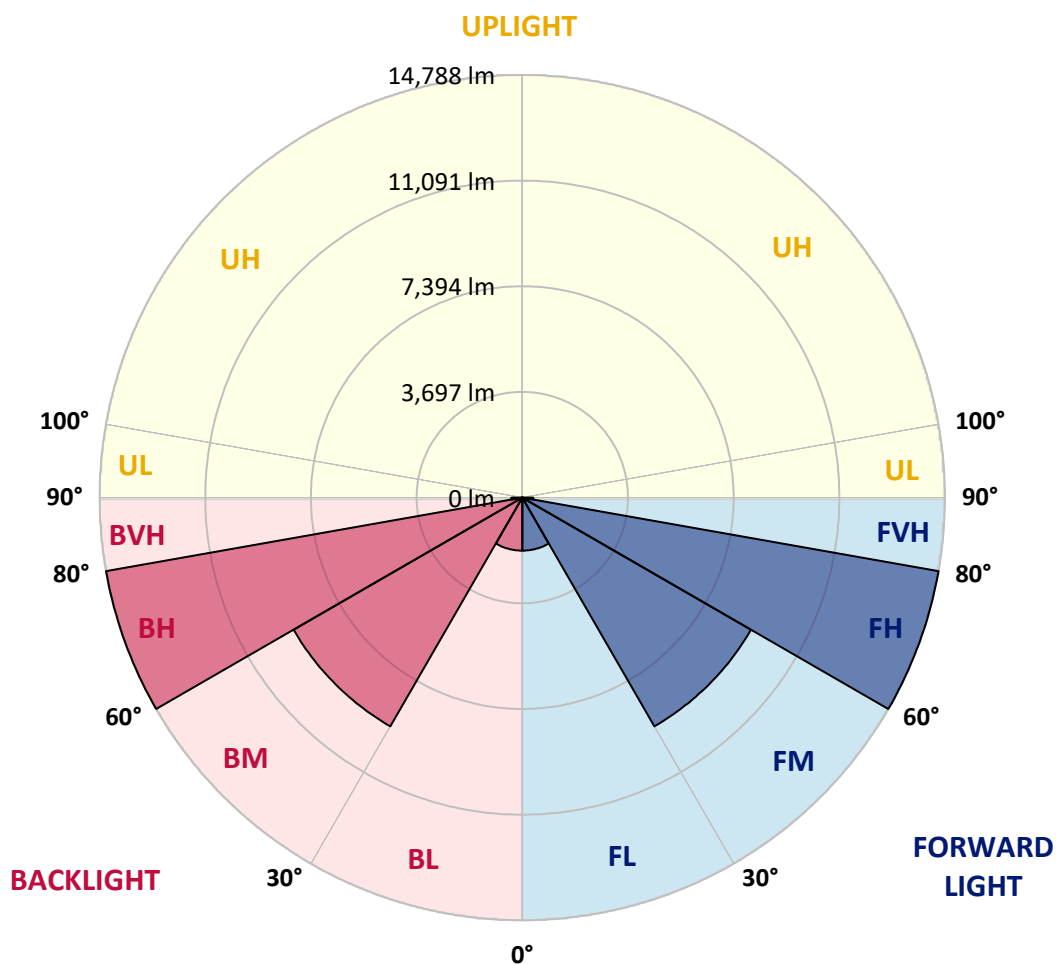
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1854.1	3.5			
FM (30°-60°)	9237.7	17.6			
FH (60°-80°)	14788.0	28.1			G5
FVH (80°-90°)	386.6	0.7			G3/500
BL (0°-30°)	1854.1	3.5	B3/2500		
BM (30°-60°)	9237.7	17.6	B5		
BH (60°-80°)	14788.0	28.1	B5		G5
BVH (80°-90°)	386.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4447.6	4447.6	4447.6	4447.6	4447.6	4447.6	4447.6	4447.6	4447.6	4447.6	4447.6
2.5°	4436.5	4439.2	4439.2	4433.7	4430.9	4430.9	4428.1	4428.1	4436.5	4439.2	4442.0
5°	4397.6	4397.6	4397.6	4394.8	4389.3	4389.3	4383.7	4383.7	4386.5	4394.8	4389.3
7.5°	4344.9	4350.5	4350.5	4339.4	4331.0	4331.0	4328.3	4331.0	4333.8	4342.1	4339.4
10°	4328.3	4331.0	4317.2	4297.7	4283.9	4275.5	4278.3	4283.9	4297.7	4303.3	4306.1
12.5°	4339.4	4339.4	4314.4	4286.6	4261.7	4250.6	4247.8	4267.2	4292.2	4308.8	4314.4
15°	4353.2	4347.7	4317.2	4281.1	4256.1	4253.3	4250.6	4264.4	4300.5	4333.8	4336.6
17.5°	4361.6	4358.8	4319.9	4275.5	4261.7	4261.7	4258.9	4270.0	4308.8	4350.5	4353.2
20°	4389.3	4381.0	4336.6	4289.4	4278.3	4283.9	4275.5	4289.4	4331.0	4381.0	4392.1
22.5°	4444.8	4436.5	4392.1	4344.9	4339.4	4339.4	4336.6	4350.5	4394.8	4447.6	4455.9
25°	4511.4	4503.1	4461.4	4428.1	4433.7	4444.8	4439.2	4442.0	4478.1	4522.5	4536.3
27.5°	4600.2	4586.3	4550.2	4522.5	4539.1	4539.1	4539.1	4536.3	4558.5	4600.2	4614.0
30°	4708.4	4702.8	4664.0	4661.2	4675.1	4661.2	4661.2	4664.0	4666.7	4705.6	4719.5
32.5°	4849.9	4838.8	4819.3	4813.8	4852.6	4863.7	4824.9	4788.8	4808.2	4847.1	4855.4
35°	5082.9	5066.3	5038.5	5008.0	5038.5	5091.3	5008.0	4980.3	5030.2	5082.9	5088.5
37.5°	5399.2	5390.9	5346.5	5291.0	5288.2	5343.7	5257.7	5254.9	5349.3	5413.1	5421.4
40°	5796.0	5804.3	5748.8	5696.1	5668.4	5712.7	5646.2	5671.1	5762.7	5834.8	5829.3
42.5°	6353.7	6323.1	6237.1	6187.2	6156.7	6140.0	6123.4	6162.2	6264.9	6342.6	6403.6
45°	7005.7	6994.6	6886.4	6825.3	6758.7	6733.8	6728.2	6797.6	6922.4	7016.8	7025.1
47.5°	7743.7	7718.7	7649.4	7585.5	7560.6	7530.1	7502.3	7555.0	7679.9	7746.5	7765.9
50°	8503.9	8509.5	8509.5	8498.4	8523.3	8528.9	8454.0	8473.4	8542.8	8537.2	8531.7
52.5°	9372.3	9402.9	9547.1	9561.0	9680.3	9760.8	9624.8	9544.4	9519.4	9369.6	9380.7
55°	10393.4	10421.1	10637.5	10853.9	11175.8	11311.7	11026.0	10776.3	10598.7	10371.2	10382.3
57.5°	11666.9	11680.7	11886.1	12302.2	12812.8	13131.8	12629.6	12135.8	11775.1	11558.7	11472.7
60°	13037.5	13051.4	13351.0	13858.7	14652.3	15040.7	14419.2	13611.8	13156.8	12826.6	12848.8
62.5°	14682.8	14738.3	15007.4	15706.6	16669.3	17104.9	16280.9	15201.6	14585.7	14175.0	14191.7
65°	16444.6	16538.9	16833.0	17601.6	18489.4	18958.3	17948.4	16702.6	15936.9	15434.7	15487.4
67.5°	17587.7	17670.9	18095.4	18944.4	20051.5	20439.9	19135.9	17684.8	16727.6	16128.3	16017.3
70°	17296.4	17365.7	17931.7	19135.9	20775.6	21266.7	19418.9	17540.5	16414.1	15723.2	15678.8
72.5°	15268.2	15123.9	15950.7	17679.3	19948.8	20772.9	18528.3	16020.1	14602.3	13892.0	13808.8
75°	10118.7	10432.2	11653.0	13689.5	16877.4	17898.5	15814.8	12862.7	11078.7	10487.7	10396.1
77.5°	3382.1	3623.5	4708.4	7760.3	11506.0	13040.3	11522.6	8412.4	5951.4	4794.4	4816.6
80°	896.2	885.1	1145.9	2133.6	4971.9	7552.3	5787.7	2849.4	1559.3	1129.2	1071.0
82.5°	321.8	360.7	463.3	591.0	1317.9	2347.2	1656.4	799.1	585.4	432.8	419.0
85°	141.5	138.7	199.8	235.8	330.2	438.4	388.4	338.5	296.9	197.0	183.1
87.5°	30.5	30.5	47.2	36.1	58.3	58.3	72.1	86.0	88.8	58.3	47.2
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)