

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: P459297

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52383 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

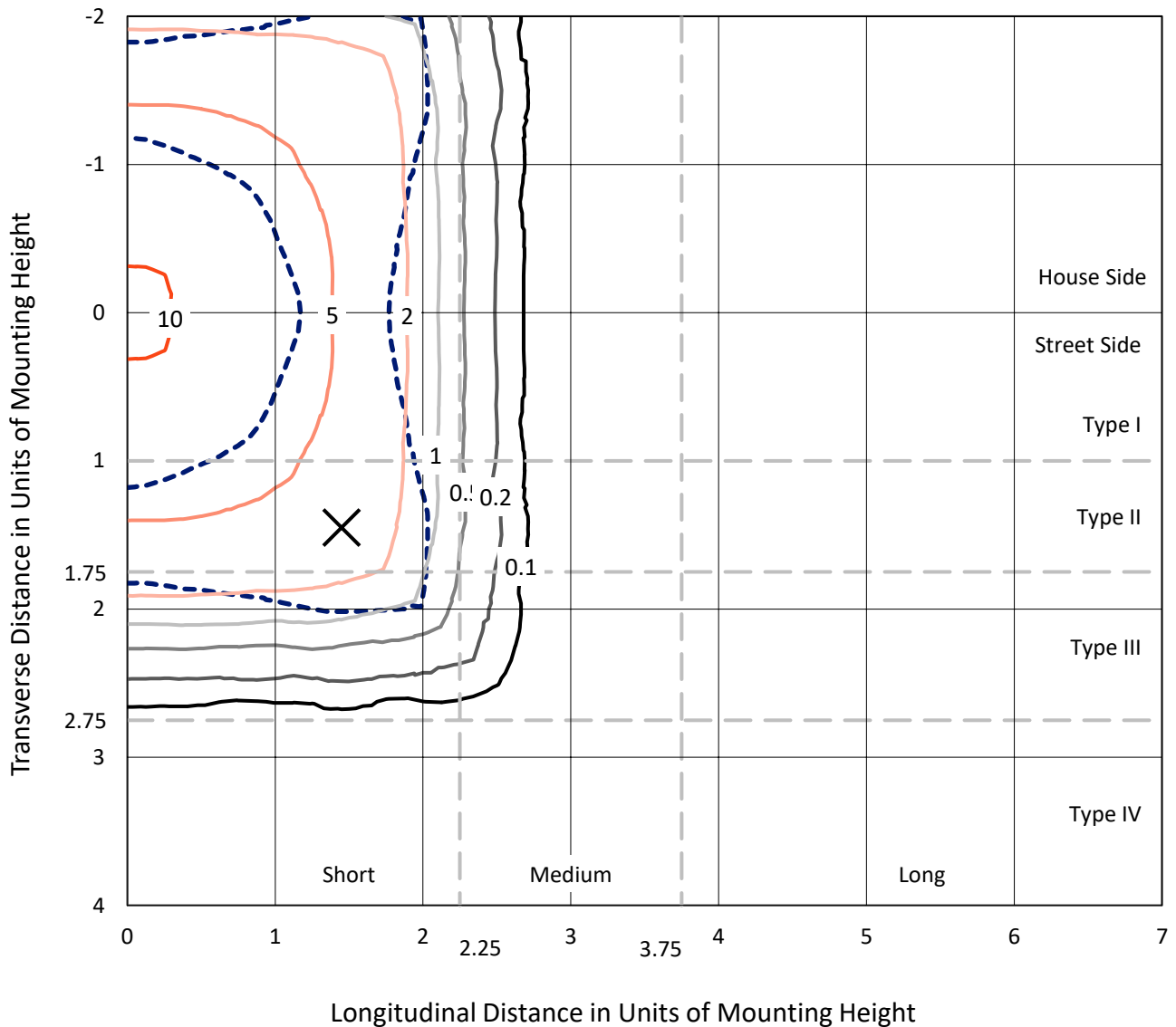
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

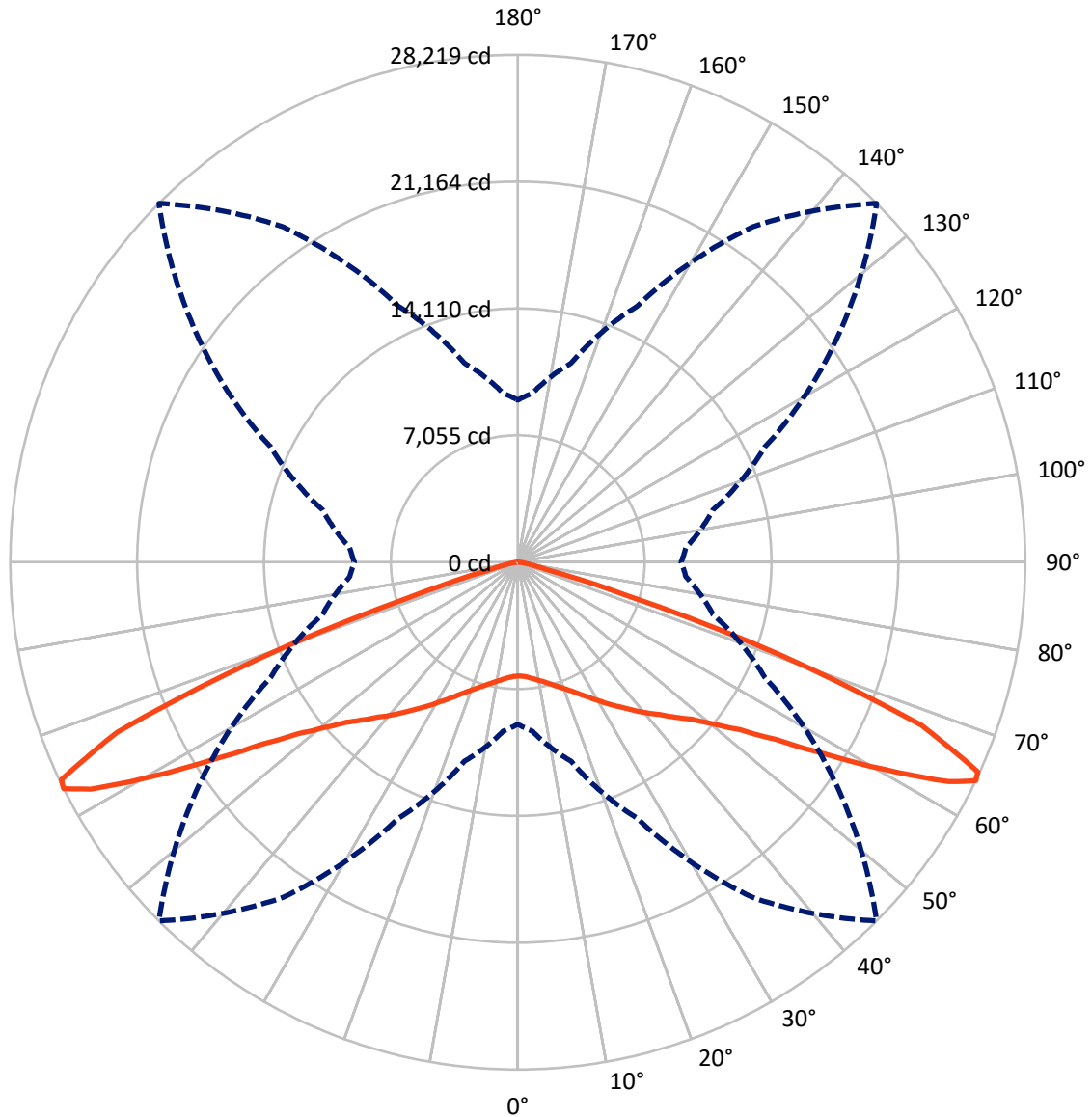
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26191.5	0.0	26191.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26191.5	0.0	26191.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52383.0	0.0	52383.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.0	1.2
10°-20°	2006.4	3.8
20°-30°	3791.5	7.2
30°-40°	6279.2	12.0
40°-50°	9802.8	18.7
50°-60°	15154.9	28.9
60°-70°	13067.9	24.9
70°-80°	1480.9	2.8
80°-90°	177.4	0.3
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°	52383.0	100.0
0°-180°	52383.0	100.0

**Coefficient of Utilization**



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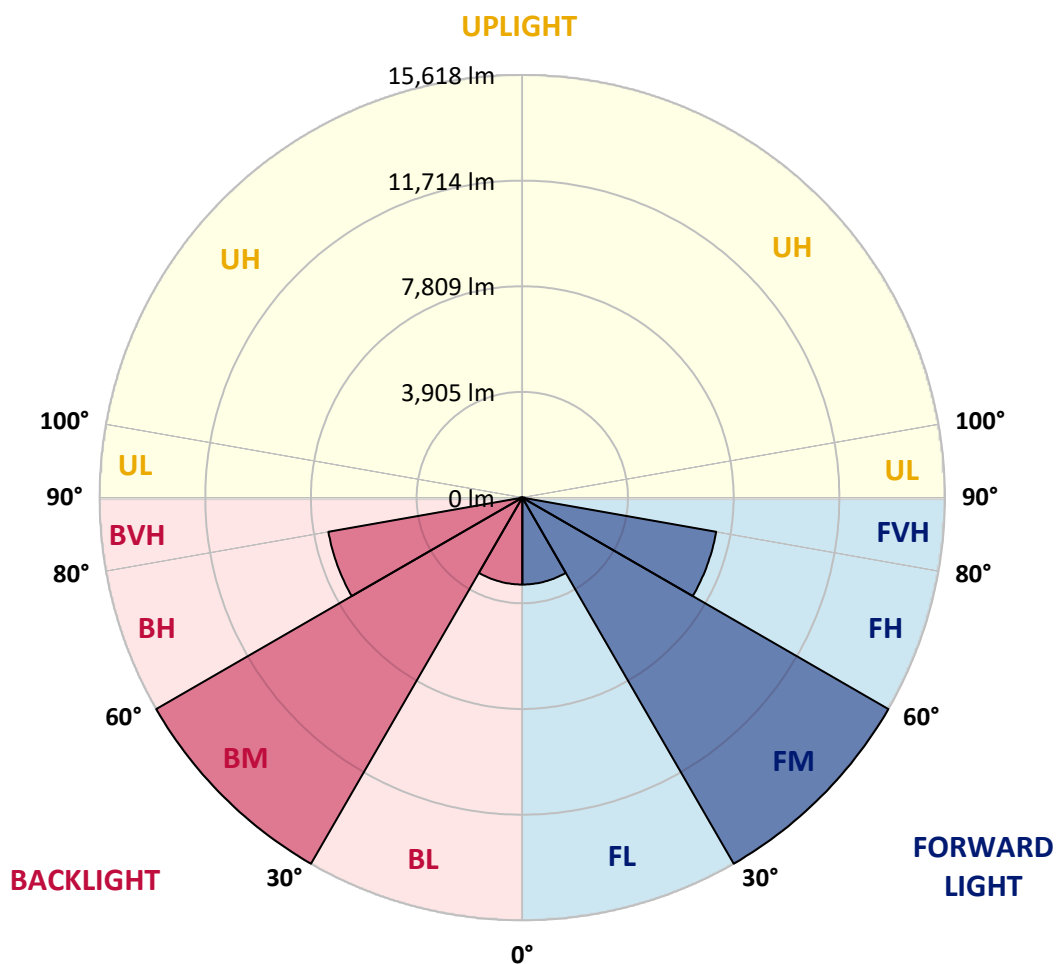
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3210.0	6.1			
FM	(30°-60°)	15618.4	29.8			
FH	(60°-80°)	7274.4	13.9			G3/7500
FVH	(80°-90°)	88.7	0.2			G1/100
BL	(0°-30°)	3210.0	6.1	B4/5000		
BM	(30°-60°)	15618.4	29.8	B5		
BH	(60°-80°)	7274.4	13.9	B5		G3/7500
BVH	(80°-90°)	88.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6331.4	6331.4	6331.4	6331.4	6331.4	6331.4	6331.4	6331.4	6331.4	6331.4	6331.4
2.5°	6356.3	6370.2	6359.1	6356.3	6353.6	6353.6	6353.6	6356.3	6367.4	6375.8	6370.2
5°	6436.8	6447.9	6442.3	6439.6	6436.8	6436.8	6434.0	6431.2	6439.6	6439.6	6436.8
7.5°	6536.7	6550.6	6545.0	6550.6	6553.3	6556.1	6542.2	6531.1	6528.4	6536.7	6531.1
10°	6672.6	6683.7	6686.5	6689.3	6694.8	6692.0	6675.4	6656.0	6653.2	6650.4	6647.7
12.5°	6825.2	6833.5	6836.3	6847.4	6855.7	6858.5	6839.1	6822.4	6794.7	6800.3	6789.2
15°	6997.2	7013.9	7011.1	7027.8	7050.0	7055.5	7036.1	7008.3	6983.4	6969.5	6961.2
17.5°	7208.1	7219.2	7213.7	7230.3	7258.0	7271.9	7255.3	7219.2	7194.2	7163.7	7147.1
20°	7457.8	7477.2	7482.8	7482.8	7507.7	7521.6	7496.6	7485.6	7446.7	7424.5	7410.6
22.5°	7740.8	7749.1	7765.8	7782.4	7807.4	7801.8	7793.5	7776.9	7740.8	7721.4	7699.2
25°	8059.9	8068.2	8109.8	8145.9	8154.2	8148.7	8137.6	8129.2	8095.9	8051.5	8034.9
27.5°	8431.6	8448.3	8503.8	8537.1	8537.1	8539.9	8517.7	8545.4	8473.3	8420.6	8415.0
30°	8897.8	8908.9	8956.0	8989.3	8972.7	8958.8	8953.3	8981.0	8903.3	8809.0	8786.8
32.5°	9358.3	9397.2	9438.8	9510.9	9452.7	9427.7	9422.1	9441.6	9352.8	9247.3	9216.8
35°	9852.2	9879.9	9957.6	10018.7	9965.9	9907.7	9932.6	9993.7	9888.3	9746.8	9741.2
37.5°	10398.8	10423.7	10523.6	10587.4	10548.6	10448.7	10490.3	10562.5	10457.0	10282.2	10246.2
40°	10967.5	11020.2	11145.1	11211.7	11147.9	11014.7	11092.4	11170.1	11075.7	10873.2	10792.7
42.5°	11605.7	11688.9	11869.2	11902.5	11780.4	11600.1	11736.1	11860.9	11794.3	11561.3	11530.7
45°	12352.0	12401.9	12623.9	12696.0	12526.8	12302.1	12471.3	12698.8	12648.9	12379.7	12321.5
47.5°	13187.1	13234.3	13464.6	13572.8	13359.1	13056.7	13361.9	13658.8	13628.3	13339.7	13312.0
50°	14174.8	14185.9	14505.0	14627.1	14413.4	14152.6	14424.5	14793.5	14671.5	14302.5	14296.9
52.5°	15256.9	15270.7	15673.0	15908.9	15789.6	15495.5	15817.3	16042.1	15731.3	15248.5	15212.5
55°	16194.6	16264.0	16813.4	17440.4	17604.1	17390.4	17487.6	17382.1	16616.4	15939.4	15834.0
57.5°	16577.5	16713.5	17548.6	18719.4	19784.8	20101.1	19352.0	18347.6	16968.7	16011.5	15908.9
60°	15642.5	15789.6	17085.3	19307.6	22026.6	23400.0	21294.1	18511.3	16166.9	14821.3	14660.4
62.5°	12526.8	12568.4	14474.5	17923.1	23333.4	26890.3	22112.6	17115.8	13833.6	12005.2	11941.4
64°	9014.3	9441.6	11461.4	15714.7	22761.8	28219.2	21641.0	15159.8	11236.6	9386.1	9086.4
65°	6742.0	6858.5	9239.0	13420.2	21754.7	28119.4	20725.4	13289.8	9305.6	7183.1	6850.2
67.5°	2547.0	2560.8	3409.8	6689.3	15487.2	24193.5	15817.3	7230.3	3920.3	2835.5	2732.9
70°	1057.1	1076.5	1251.3	2250.1	6656.0	15534.3	7627.0	2608.0	1434.4	1162.5	1145.9
72.5°	774.1	785.2	837.9	998.8	2047.6	6378.5	2508.1	1107.0	840.7	751.9	743.6
75°	607.6	613.2	652.0	735.2	954.4	1767.3	1043.2	760.2	640.9	577.1	571.5
77.5°	463.3	477.2	505.0	560.4	640.9	837.9	690.8	568.8	493.9	441.1	432.8
80°	319.1	335.7	388.4	410.6	430.0	543.8	471.7	430.0	385.7	321.8	302.4
82.5°	197.0	208.1	260.8	280.2	271.9	305.2	302.4	308.0	274.7	199.8	185.9
85°	102.7	108.2	141.5	147.0	135.9	124.9	155.4	180.3	169.2	113.8	111.0
87.5°	22.2	25.0	30.5	27.7	30.5	30.5	38.8	58.3	61.0	38.8	36.1
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)