

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: P459528

Luminaire Tested: **GALN-SA9D-735-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459528  
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-SA9D-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 68519 lumens  
Efficiency: N/A  
Efficacy: 124.1 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): 552  
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

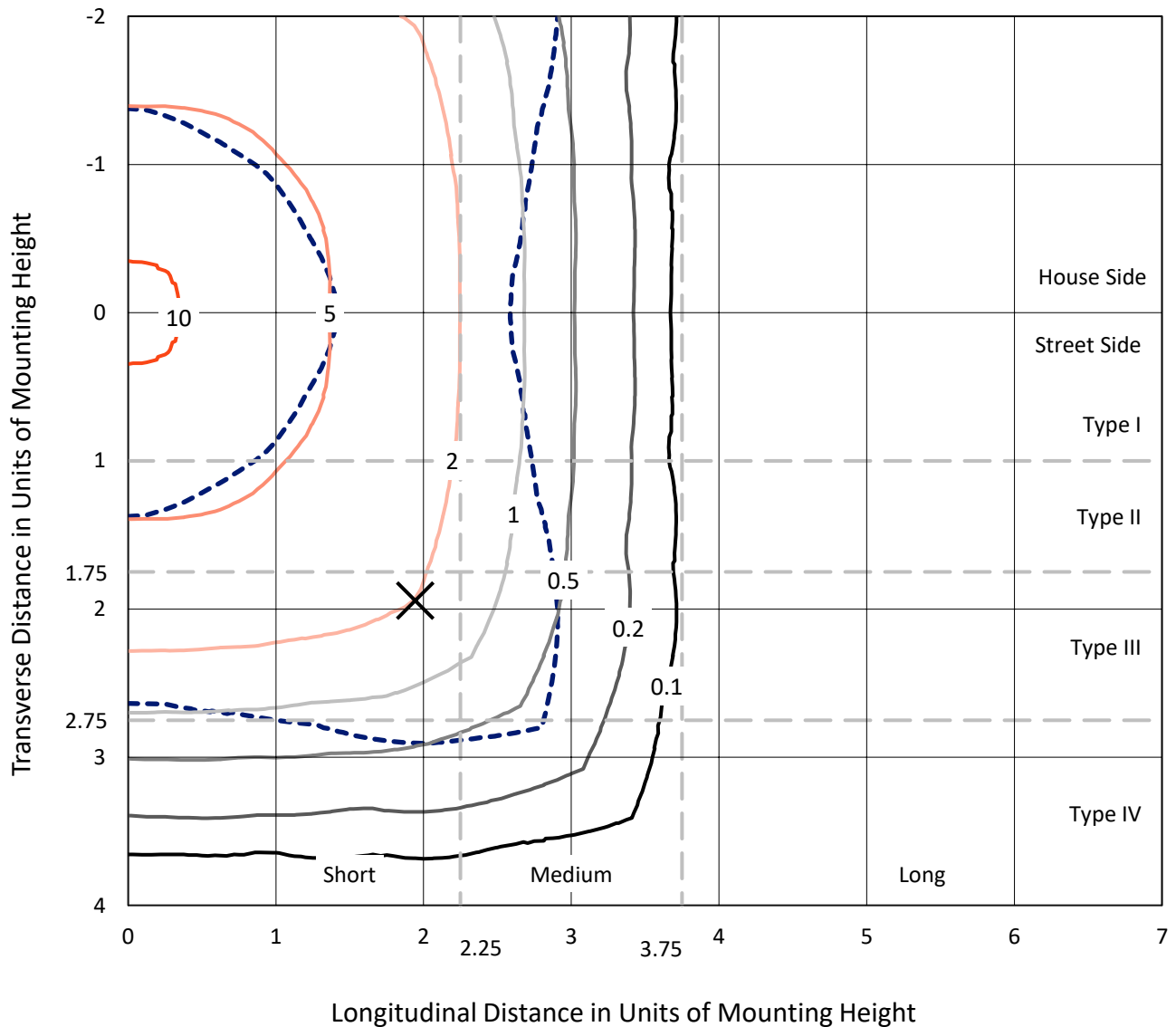




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### Iso-Footcandle Lines of Horizontal Illumination

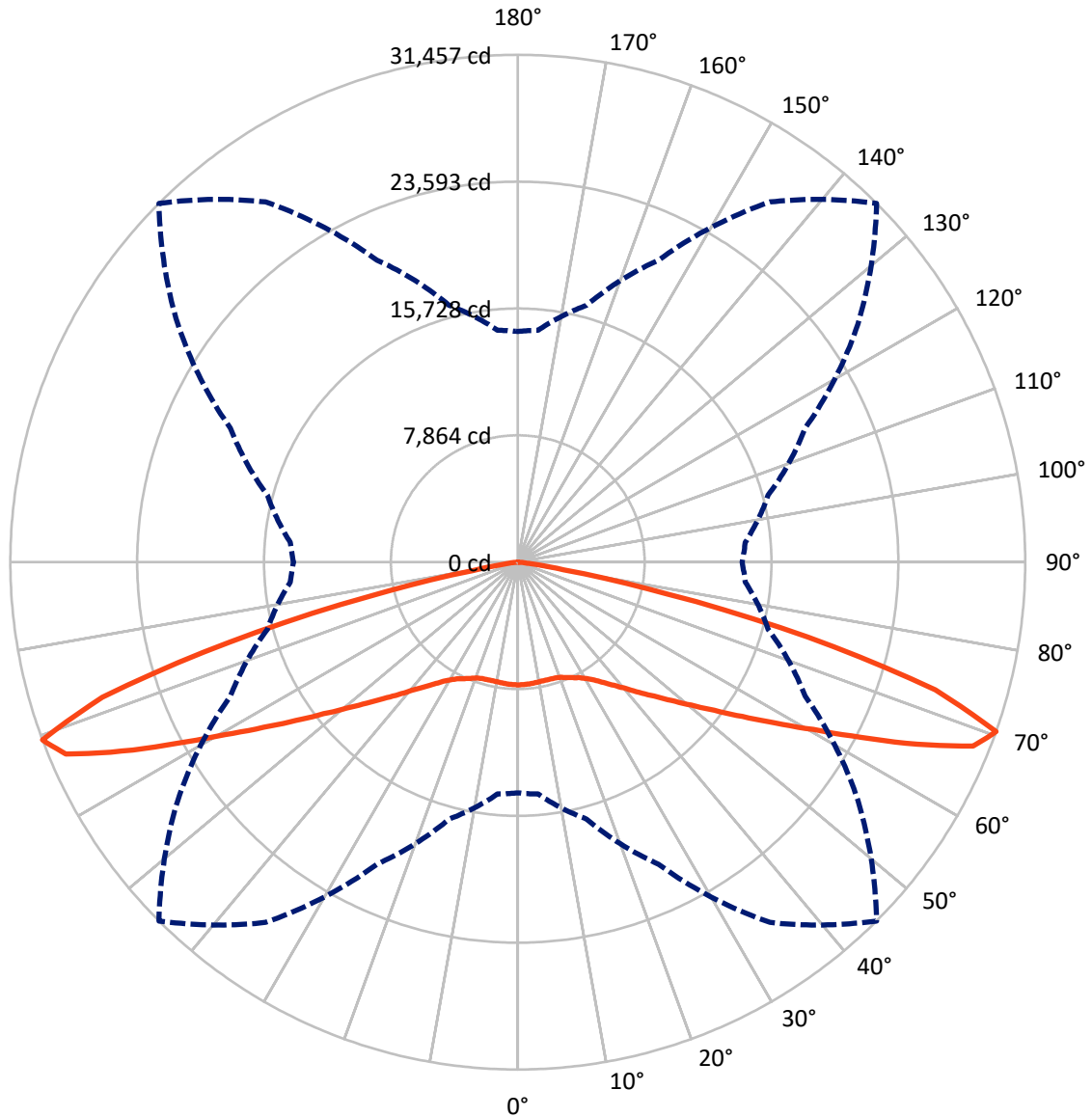
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	34259.5	0.0	34259.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34259.5	0.0	34259.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	68519.0	0.0	68519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.5	1.1
10°-20°	2117.3	3.1
20°-30°	3621.2	5.3
30°-40°	5747.6	8.4
40°-50°	9272.3	13.5
50°-60°	15086.3	22.0
60°-70°	21869.7	31.9
70°-80°	9700.6	14.2
80°-90°	382.6	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°	68519.0	100.0
0°-180°	68519.0	100.0

**Coefficient of Utilization**



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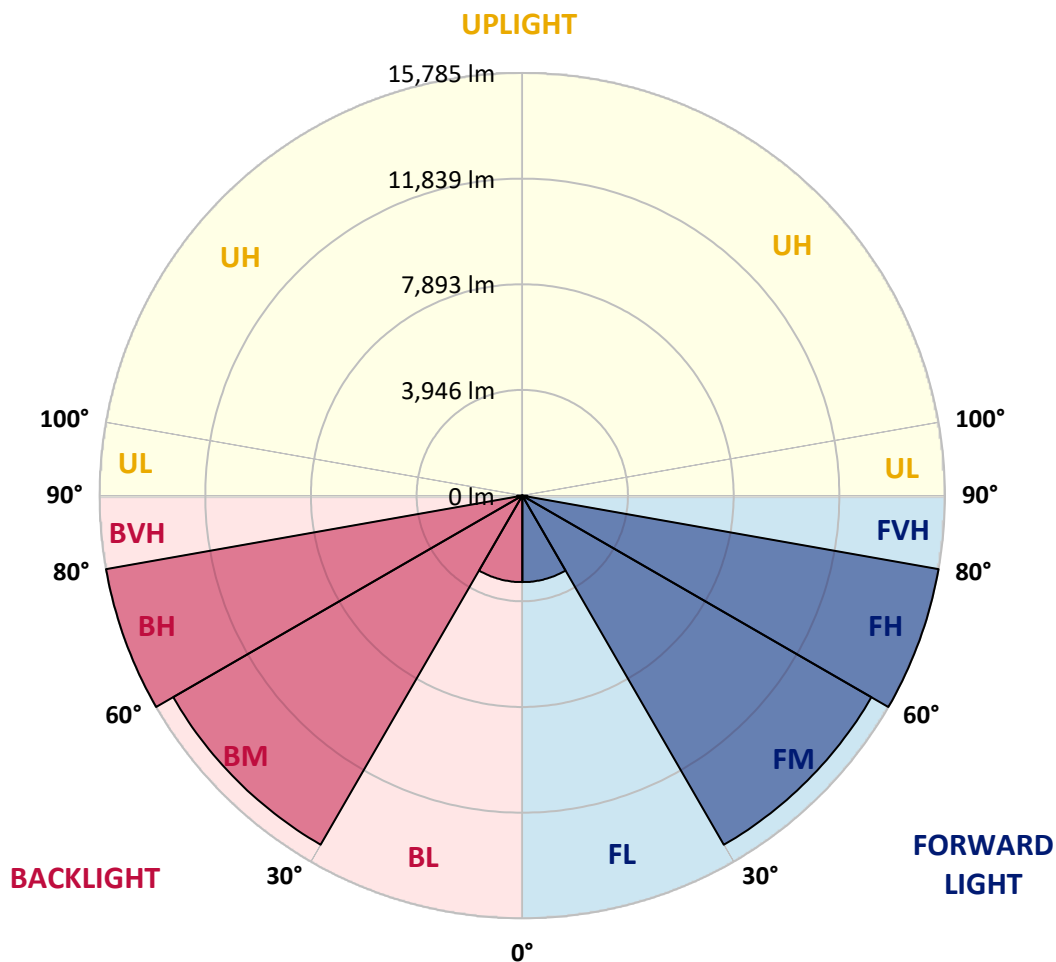
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3230.0	4.7			
FM (30°-60°)	15053.1	22.0			
FH (60°-80°)	15785.1	23.0			G5
FVH (80°-90°)	191.3	0.3			G2/225
BL (0°-30°)	3230.0	4.7	B4/5000		
BM (30°-60°)	15053.1	22.0	B5		
BH (60°-80°)	15785.1	23.0	B5		G5
BVH (80°-90°)	191.3	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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7
2.5°	7608.7	7615.9	7605.1	7597.9	7594.3	7594.3	7590.7	7594.3	7615.9	7619.5	7608.7
5°	7587.0	7594.3	7590.7	7583.4	7579.8	7579.8	7576.2	7572.6	7590.7	7597.9	7594.3
7.5°	7558.2	7561.8	7558.2	7554.5	7558.2	7554.5	7543.7	7536.5	7550.9	7550.9	7547.3
10°	7507.6	7514.8	7511.2	7514.8	7522.0	7522.0	7507.6	7493.2	7496.8	7489.5	7489.5
12.5°	7446.2	7457.0	7460.7	7475.1	7493.2	7514.8	7482.3	7449.8	7442.6	7439.0	7435.4
15°	7406.5	7417.3	7431.8	7446.2	7478.7	7525.7	7478.7	7428.2	7413.7	7399.3	7392.0
17.5°	7395.7	7410.1	7431.8	7453.4	7496.8	7543.7	7504.0	7453.4	7417.3	7395.7	7388.4
20°	7424.5	7435.4	7467.9	7507.6	7569.0	7615.9	7576.2	7522.0	7467.9	7435.4	7424.5
22.5°	7482.3	7500.4	7540.1	7612.3	7699.0	7767.6	7713.4	7623.2	7536.5	7493.2	7478.7
25°	7608.7	7623.2	7670.1	7767.6	7868.7	7933.7	7875.9	7771.2	7652.0	7594.3	7576.2
27.5°	7800.1	7821.8	7872.3	7987.9	8070.9	8107.1	8067.3	7995.1	7908.4	7847.0	7832.6
30°	8070.9	8096.2	8172.1	8294.8	8349.0	8370.7	8352.6	8305.7	8244.3	8179.3	8164.8
32.5°	8435.7	8450.1	8536.8	8652.3	8702.9	8710.1	8688.4	8666.8	8565.7	8457.3	8450.1
35°	8843.7	8869.0	8973.7	9111.0	9157.9	9161.5	9118.2	9085.7	8966.5	8879.8	8879.8
37.5°	9385.4	9396.2	9497.3	9652.6	9703.2	9688.7	9667.1	9638.2	9511.8	9399.8	9403.5
40°	10021.0	10042.6	10129.3	10309.9	10309.9	10291.8	10306.2	10284.6	10158.2	10049.9	10053.5
42.5°	10775.7	10786.5	10891.3	11082.6	11068.2	11032.1	11046.5	11017.6	10938.2	10815.4	10772.1
45°	11581.0	11624.3	11804.9	11989.0	11960.2	11844.6	11902.4	11895.2	11822.9	11638.8	11649.6
47.5°	12552.4	12624.6	12797.9	13018.2	12985.7	12805.2	12870.2	12913.5	12812.4	12610.2	12574.1
50°	13646.6	13693.5	13949.9	14155.7	14126.9	13935.5	14083.5	14090.7	13838.0	13552.7	13552.7
52.5°	14813.0	14859.9	15206.6	15528.0	15546.0	15268.0	15387.1	15379.9	14968.3	14592.7	14520.5
55°	16120.2	16141.9	16589.7	17062.7	17163.8	16893.0	16907.4	16763.0	16228.5	15791.6	15751.9
57.5°	17470.8	17550.2	18045.0	18658.9	18958.6	18792.5	18716.6	18330.2	17813.8	17311.9	17286.6
60°	18965.8	18969.4	19612.2	20338.0	20944.7	21056.7	20746.1	20229.7	19561.6	18897.2	18868.3
62.5°	20002.2	20157.5	20970.0	22197.8	23284.8	23913.1	23093.4	22010.0	20695.6	19623.0	19514.7
65°	20215.3	20320.0	21558.6	23638.6	25859.5	27213.7	25317.8	23013.9	20771.4	19341.4	19269.1
67.5°	18492.7	18604.7	20273.0	23465.3	27665.1	30442.1	26762.3	22530.0	19485.8	17716.3	17575.5
70°	14303.8	14430.2	16492.2	20655.8	27264.3	31456.8	25733.1	19651.9	16069.7	14159.4	13903.0
72.5°	7605.1	8070.9	9833.2	14177.4	22129.2	27083.7	21100.0	14339.9	10364.0	8471.8	8132.3
75°	2777.0	2834.8	3817.0	6287.0	12873.8	18572.2	13368.5	6839.5	3932.6	3037.0	2881.7
77.5°	1148.3	1144.7	1256.7	1899.5	4676.5	9511.8	5218.1	2007.8	1253.1	1159.2	1144.7
80°	678.9	678.9	747.5	790.8	1231.4	2870.9	1375.9	895.6	751.1	686.1	697.0
82.5°	303.3	321.4	473.1	498.3	595.8	787.2	664.5	570.6	491.1	339.4	306.9
85°	166.1	144.4	249.2	260.0	285.3	292.5	314.2	310.6	285.3	166.1	169.7
87.5°	32.5	39.7	72.2	54.2	61.4	54.2	72.2	101.1	104.7	57.8	46.9
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)