

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: P459384

Luminaire Tested: **GALN-SA8C-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459384  
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-SA8C-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55192 lumens  
Efficiency: N/A  
Efficacy: 128.7 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

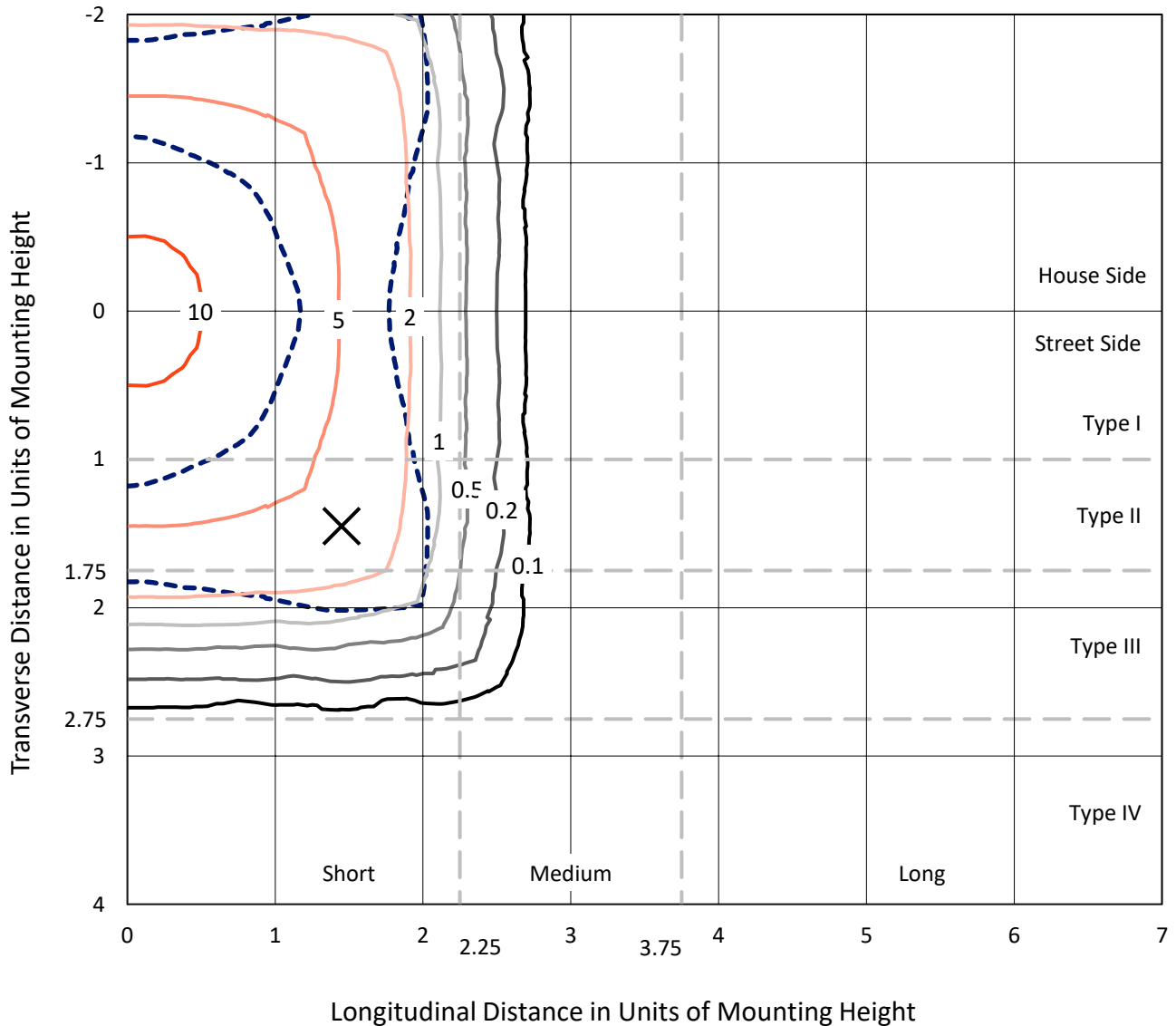
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

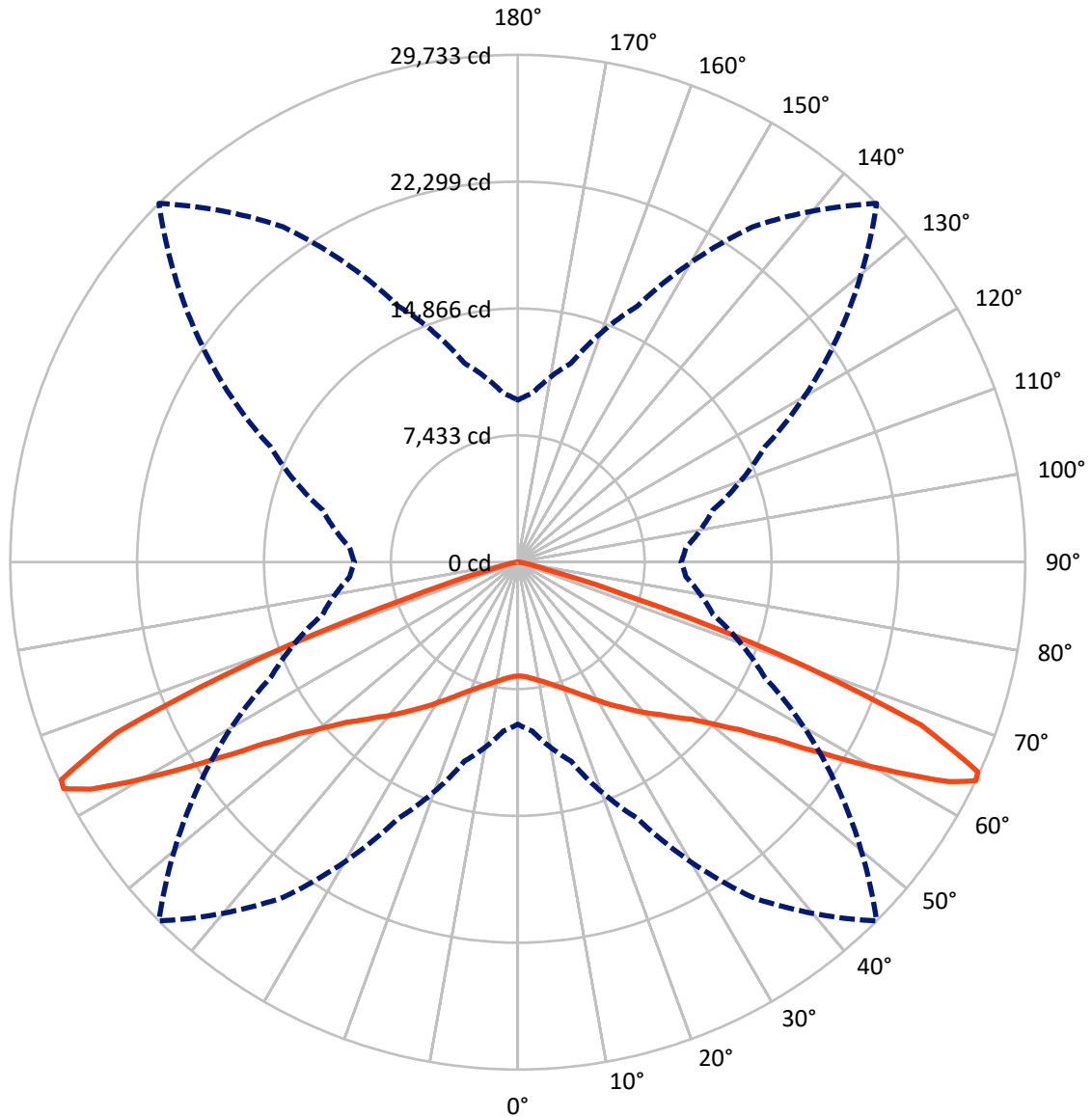
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	27596.0	0.0	27596.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27596.0	0.0	27596.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55192.0	0.0	55192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.4	1.2
10°-20°	2114.0	3.8
20°-30°	3994.8	7.2
30°-40°	6615.9	12.0
40°-50°	10328.5	18.7
50°-60°	15967.6	28.9
60°-70°	13768.6	24.9
70°-80°	1560.3	2.8
80°-90°	186.9	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°	55192.0	100.0
0°-180°	55192.0	100.0

**Coefficient of Utilization**



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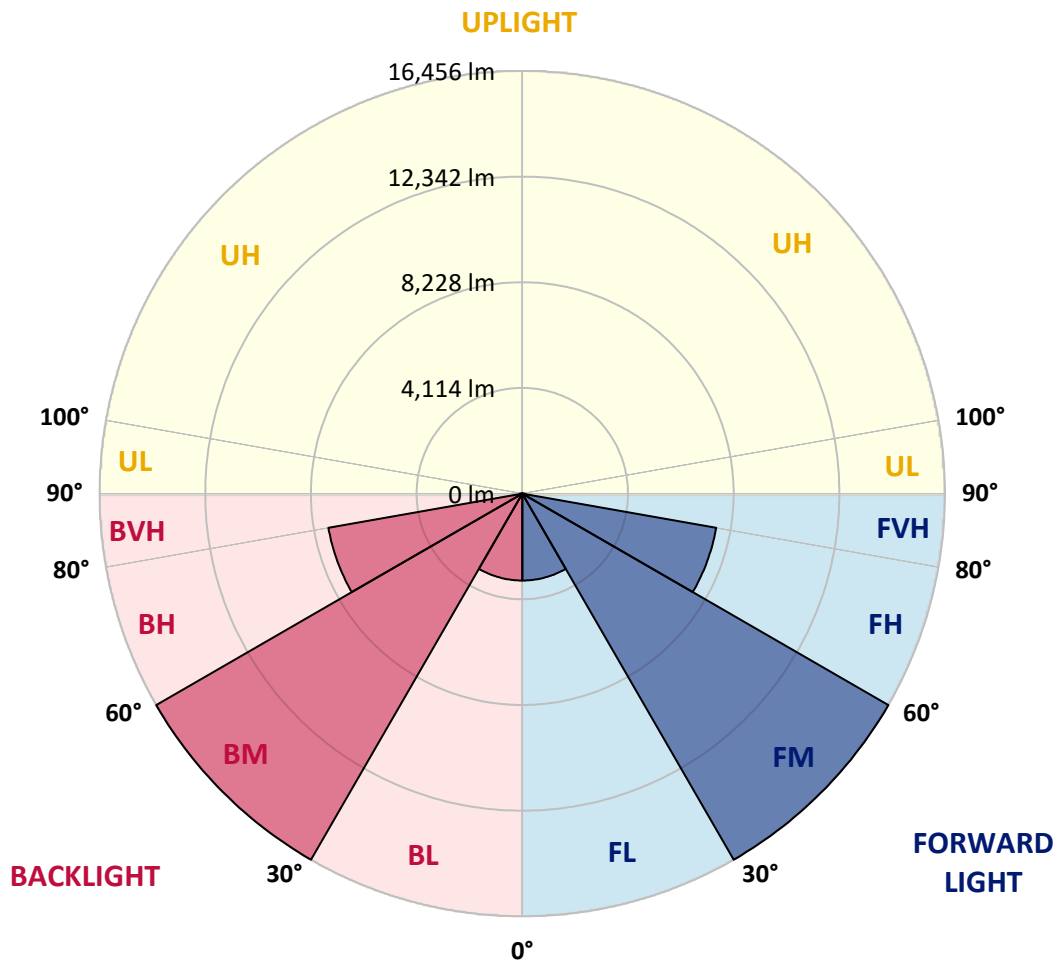
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3382.1	6.1			
FM	(30°-60°)	16456.0	29.8			
FH	(60°-80°)	7664.5	13.9			G4/12000
FVH	(80°-90°)	93.5	0.2			G1/100
BL	(0°-30°)	3382.1	6.1	B4/5000		
BM	(30°-60°)	16456.0	29.8	B5		
BH	(60°-80°)	7664.5	13.9	B5		G4/12000
BVH	(80°-90°)	93.5	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6670.9	6670.9	6670.9	6670.9	6670.9	6670.9	6670.9	6670.9	6670.9	6670.9	6670.9
2.5°	6697.2	6711.8	6700.1	6697.2	6694.3	6694.3	6694.3	6697.2	6708.9	6717.7	6711.8
5°	6782.0	6793.7	6787.8	6784.9	6782.0	6784.9	6779.0	6776.1	6784.9	6784.9	6782.0
7.5°	6887.2	6901.8	6896.0	6901.8	6904.7	6907.7	6893.0	6881.4	6878.4	6887.2	6881.4
10°	7030.4	7042.1	7045.1	7048.0	7053.8	7050.9	7033.4	7012.9	7010.0	7007.1	7004.1
12.5°	7191.2	7200.0	7202.9	7214.6	7223.4	7226.3	7205.8	7188.3	7159.1	7164.9	7153.2
15°	7372.5	7390.0	7387.1	7404.6	7428.0	7433.9	7413.4	7384.2	7357.8	7343.2	7334.5
17.5°	7594.6	7606.3	7600.5	7618.0	7647.3	7661.9	7644.3	7606.3	7580.0	7547.9	7530.3
20°	7857.7	7878.2	7884.0	7884.0	7910.3	7925.0	7898.7	7887.0	7846.0	7822.6	7808.0
22.5°	8155.9	8164.7	8182.2	8199.7	8226.1	8220.2	8211.4	8193.9	8155.9	8135.4	8112.0
25°	8492.1	8500.8	8544.7	8582.7	8591.5	8585.6	8573.9	8565.2	8530.1	8483.3	8465.8
27.5°	8883.8	8901.3	8959.8	8994.9	8994.9	8997.8	8974.4	9003.6	8927.6	8872.1	8866.3
30°	9374.9	9386.6	9436.3	9471.4	9453.8	9439.2	9433.4	9462.6	9380.7	9281.4	9258.0
32.5°	9860.2	9901.1	9944.9	10020.9	9959.5	9933.2	9927.4	9947.9	9854.3	9743.2	9711.1
35°	10380.5	10409.7	10491.6	10555.9	10500.4	10439.0	10465.3	10529.6	10418.5	10269.4	10263.6
37.5°	10956.4	10982.7	11087.9	11155.2	11114.2	11009.0	11052.8	11128.9	11017.8	10833.6	10795.6
40°	11555.7	11611.2	11742.7	11812.9	11745.7	11605.3	11687.2	11769.0	11669.7	11456.3	11371.5
42.5°	12228.0	12315.7	12505.7	12540.8	12412.2	12222.2	12365.4	12496.9	12426.8	12181.2	12149.1
45°	13014.4	13067.0	13300.8	13376.8	13198.5	12961.7	13140.1	13379.8	13327.1	13043.6	12982.2
47.5°	13894.3	13944.0	14186.6	14300.6	14075.5	13756.9	14078.4	14391.2	14359.1	14055.0	14025.8
50°	14934.9	14946.6	15282.8	15411.4	15186.3	14911.6	15198.0	15586.8	15458.2	15069.4	15063.6
52.5°	16075.0	16089.6	16513.5	16762.0	16636.3	16326.4	16665.5	16902.3	16574.9	16066.2	16028.2
55°	17063.1	17136.2	17715.0	18375.6	18548.1	18323.0	18425.3	18314.2	17507.4	16794.1	16683.0
57.5°	17466.5	17609.7	18489.6	19723.2	20845.8	21179.0	20389.7	19331.5	17878.7	16870.1	16762.0
60°	16481.3	16636.3	18001.4	20343.0	23207.8	24654.8	22436.0	19504.0	17033.8	15616.1	15446.5
62.5°	13198.5	13242.4	15250.7	18884.3	24584.6	28332.2	23298.4	18033.6	14575.4	12648.9	12581.7
64°	9497.7	9947.9	12076.0	16557.3	23982.4	29732.5	22801.4	15972.7	11839.2	9889.4	9573.7
65°	7103.5	7226.3	9734.5	14139.8	22921.3	29627.2	21836.8	14002.4	9804.6	7568.3	7217.5
67.5°	2683.6	2698.2	3592.7	7048.0	16317.6	25490.8	16665.5	7618.0	4130.6	2987.6	2879.4
70°	1113.8	1134.2	1318.4	2370.8	7012.9	16367.3	8036.0	2747.9	1511.3	1224.8	1207.3
72.5°	815.6	827.3	882.8	1052.4	2157.4	6720.6	2642.6	1166.4	885.7	792.2	783.4
75°	640.2	646.0	687.0	774.7	1005.6	1862.1	1099.1	801.0	675.3	608.0	602.2
77.5°	488.2	502.8	532.0	590.5	675.3	882.8	727.9	599.3	520.3	464.8	456.0
80°	336.2	353.7	409.3	432.6	453.1	573.0	497.0	453.1	406.3	339.1	318.6
82.5°	207.6	219.2	274.8	295.2	286.5	321.6	318.6	324.5	289.4	210.5	195.9
85°	108.2	114.0	149.1	154.9	143.2	131.5	163.7	190.0	178.3	119.9	116.9
87.5°	23.4	26.3	32.2	29.2	32.2	32.2	40.9	61.4	64.3	40.9	38.0
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)