

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: P459504

Luminaire Tested: **GALN-SA9C-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61256 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 481  
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

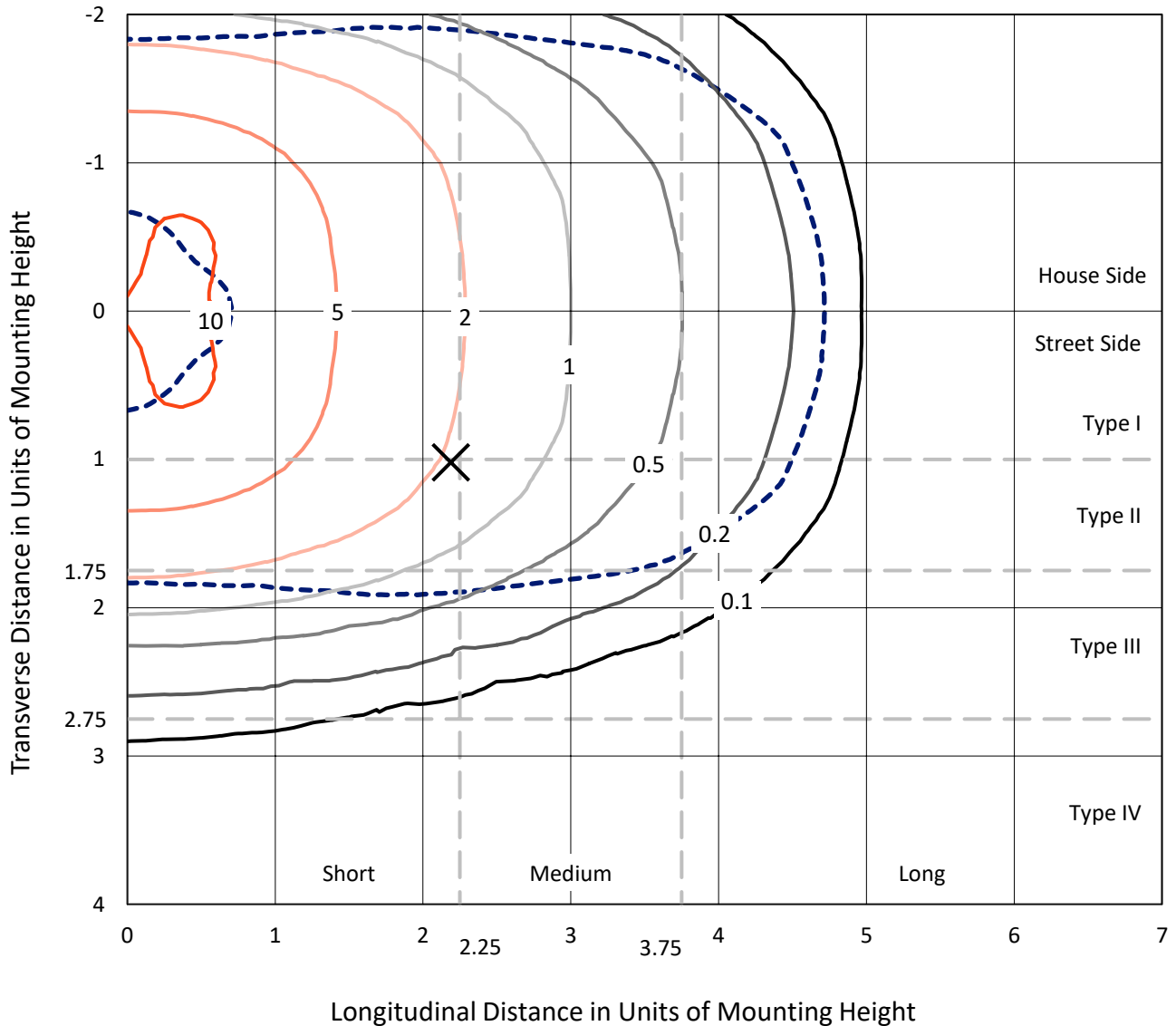




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### Iso-Footcandle Lines of Horizontal Illumination

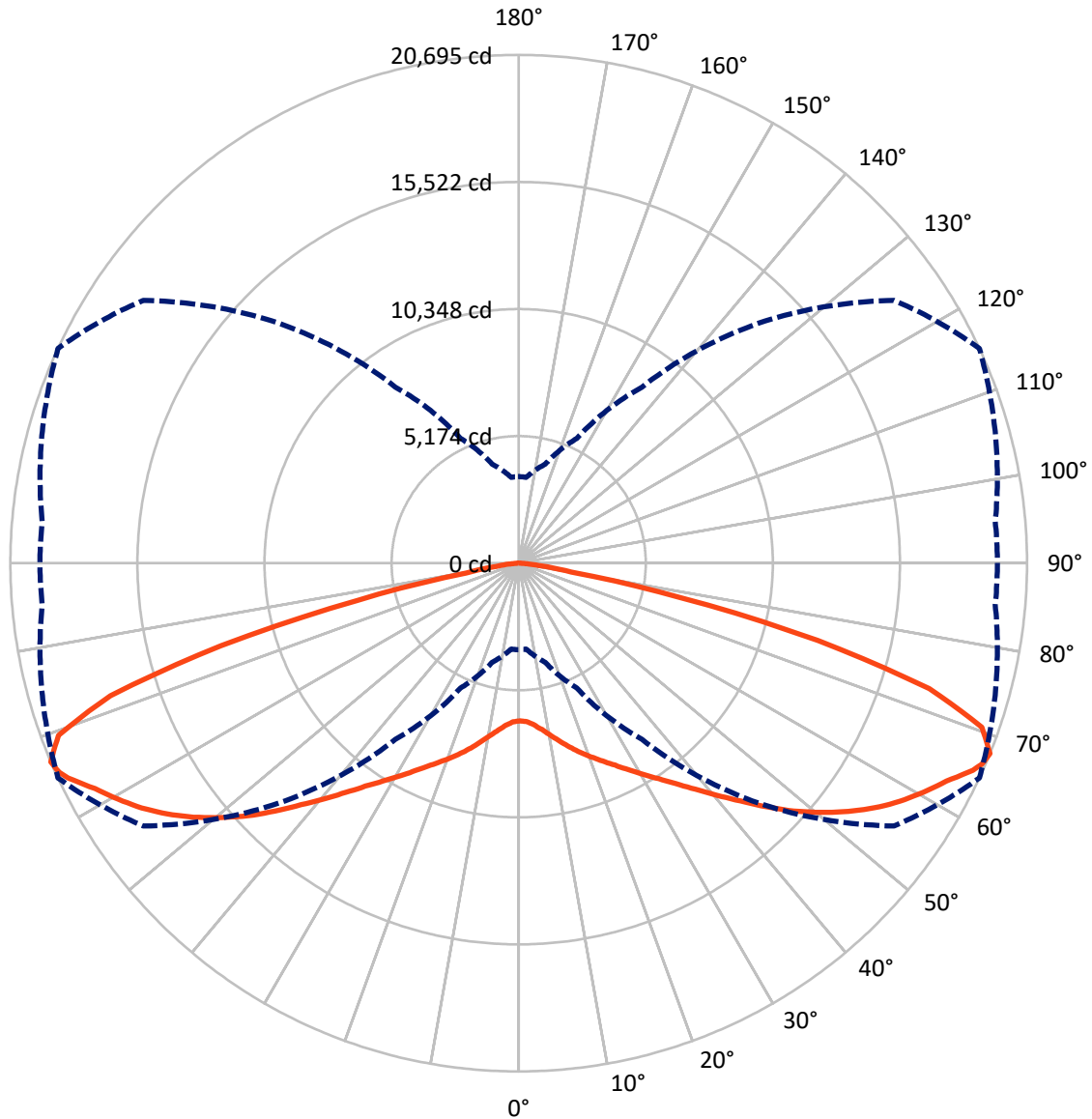
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	30628.0	0.0	30628.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30628.0	0.0	30628.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	61256.0	0.0	61256.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.8	1.0
10°-20°	2117.9	3.5
20°-30°	4142.8	6.8
30°-40°	7046.3	11.5
40°-50°	11152.2	18.2
50°-60°	14787.6	24.1
60°-70°	13949.2	22.8
70°-80°	6895.8	11.3
80°-90°	531.4	0.9
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°	61256.0	100.0
0°-180°	61256.0	100.0

**Coefficient of Utilization**



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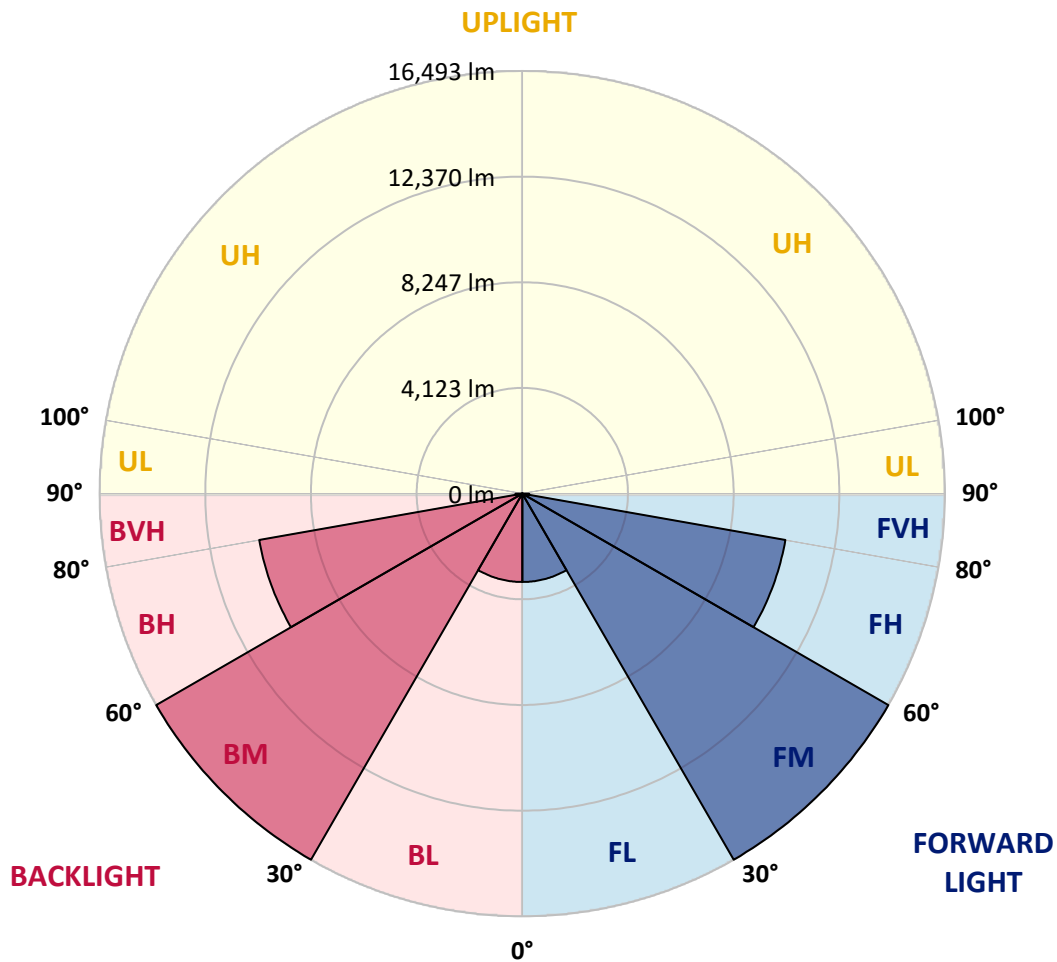
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3446.7	5.6			
FM	(30°-60°)	16493.0	26.9			
FH	(60°-80°)	10422.5	17.0			G4/12000
FVH	(80°-90°)	265.7	0.4			G3/500
BL	(0°-30°)	3446.7	5.6	B4/5000		
BM	(30°-60°)	16493.0	26.9	B5		
BH	(60°-80°)	10422.5	17.0	B5		G5
BVH	(80°-90°)	265.7	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6416.0	6416.0	6416.0	6416.0	6416.0	6416.0	6416.0	6416.0	6416.0	6416.0	6416.0
2.5°	6383.2	6389.8	6396.3	6406.2	6419.3	6439.0	6452.1	6462.0	6488.2	6491.5	6488.2
5°	6360.2	6366.8	6383.2	6412.7	6455.4	6514.5	6560.4	6616.2	6658.9	6688.4	6681.9
7.5°	6357.0	6370.1	6396.3	6458.7	6540.7	6642.5	6747.5	6842.7	6924.7	6990.4	6980.5
10°	6409.5	6425.9	6468.5	6560.4	6688.4	6836.1	6983.8	7124.9	7243.1	7328.4	7357.9
12.5°	6498.1	6511.2	6590.0	6727.8	6911.6	7095.4	7262.7	7436.7	7600.8	7745.2	7745.2
15°	6652.3	6675.3	6773.7	6973.9	7200.4	7413.7	7584.4	7768.1	7945.4	8109.5	8158.7
17.5°	6865.6	6898.5	7046.1	7302.1	7590.9	7787.8	7948.7	8099.6	8253.9	8411.4	8434.4
20°	7157.7	7190.5	7387.5	7695.9	8037.3	8273.6	8381.9	8418.0	8493.4	8644.4	8664.1
22.5°	7554.8	7587.6	7807.5	8155.4	8536.1	8792.1	8838.0	8752.7	8733.0	8851.2	8864.3
25°	8004.4	8034.0	8286.7	8660.8	9054.6	9333.6	9320.5	9110.4	8992.3	9064.5	9084.2
27.5°	8509.8	8552.5	8808.5	9195.8	9622.4	9868.5	9829.2	9523.9	9271.2	9258.1	9264.7
30°	9156.4	9202.3	9445.2	9816.0	10236.1	10462.6	10380.5	9970.3	9579.7	9448.5	9448.5
32.5°	9839.0	9953.9	10200.0	10587.3	10915.4	11079.5	10954.8	10462.6	9944.0	9760.2	9750.4
35°	10728.4	10790.7	11033.6	11411.0	11657.1	11785.1	11545.6	11017.2	10419.9	10203.3	10173.7
37.5°	11598.1	11650.6	11932.8	12293.8	12592.5	12585.9	12261.0	11676.8	11010.6	10767.8	10748.1
40°	12487.5	12543.2	12864.9	13196.3	13495.0	13468.7	13074.9	12421.8	11712.9	11440.5	11493.1
42.5°	13258.7	13321.0	13685.3	14157.9	14427.0	14420.5	13964.3	13229.2	12490.7	12247.9	12293.8
45°	13961.0	14016.8	14440.2	14981.7	15375.5	15424.7	14925.9	14148.1	13390.0	13078.2	13091.3
47.5°	14456.6	14561.6	15004.6	15624.9	16159.9	16333.8	15844.8	15083.4	14210.4	13885.5	13905.2
50°	14834.0	14899.6	15382.1	16087.7	16763.7	17124.7	16730.9	15949.8	15030.9	14686.3	14732.2
52.5°	14879.9	14958.7	15483.8	16297.7	17164.1	17712.2	17518.5	16796.5	15867.8	15513.3	15611.8
55°	14505.8	14551.7	15178.6	16166.4	17321.6	18148.7	18197.9	17584.2	16665.3	16396.1	16461.8
57.5°	13439.2	13557.3	14351.5	15552.7	17105.0	18381.7	18706.6	18299.6	17472.6	17206.8	17311.8
60°	11690.0	11808.1	12605.6	14128.4	16287.8	18273.4	19126.6	18933.0	18204.4	17991.1	18046.9
62.5°	9159.7	9149.8	10137.6	12005.0	14663.3	17741.7	19438.4	19543.4	18926.5	18657.3	18742.7
65°	5936.9	5966.4	6921.4	8933.2	12211.8	16389.6	19507.3	20321.2	19635.3	19228.4	19290.7
66°	4775.1	4863.7	5674.3	7528.6	10961.4	15503.5	19300.6	20551.0	19851.9	19359.7	19389.2
67.5°	3524.7	3508.3	4174.5	5605.4	8752.7	13819.9	18654.1	20695.4	20098.1	19477.8	19490.9
70°	2011.8	2008.5	2244.8	3078.4	5145.9	9730.7	15723.4	20002.9	20596.9	19904.4	19868.3
72.5°	1470.3	1460.4	1493.2	1700.0	2510.6	4912.9	10846.5	17482.4	20340.9	19835.5	19733.8
75°	1234.0	1227.4	1220.8	1247.1	1407.9	2225.1	5756.4	12576.1	17649.8	18618.0	18512.9
77.5°	1007.5	1007.5	1010.8	1004.2	1010.8	1171.6	2385.9	6740.9	10748.1	11998.5	12290.5
80°	787.6	784.4	840.2	817.2	764.7	751.5	1056.8	2169.3	3567.4	3547.7	2927.4
82.5°	580.9	541.5	640.0	623.6	564.5	479.2	617.0	925.5	1191.3	774.5	574.3
85°	367.6	364.3	452.9	413.5	344.6	226.4	295.4	397.1	492.3	298.6	242.9
87.5°	65.6	62.4	144.4	105.0	105.0	65.6	82.0	108.3	160.8	111.6	82.0
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)