

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: P456981

Luminaire Tested: **GALN-SA8B-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456981  
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-SA8B-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47407 lumens  
Efficiency: N/A  
Efficacy: 145.9 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

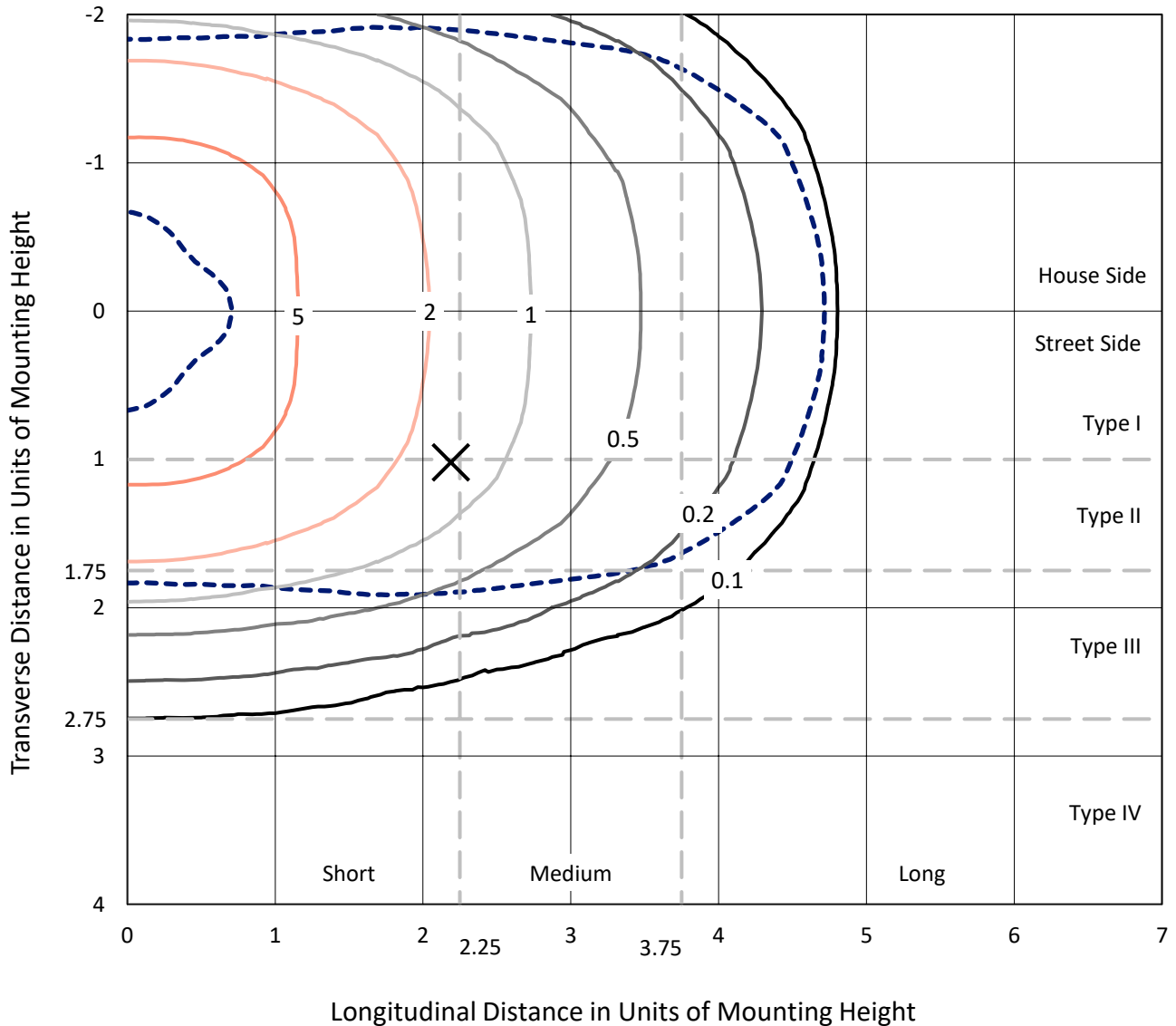
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

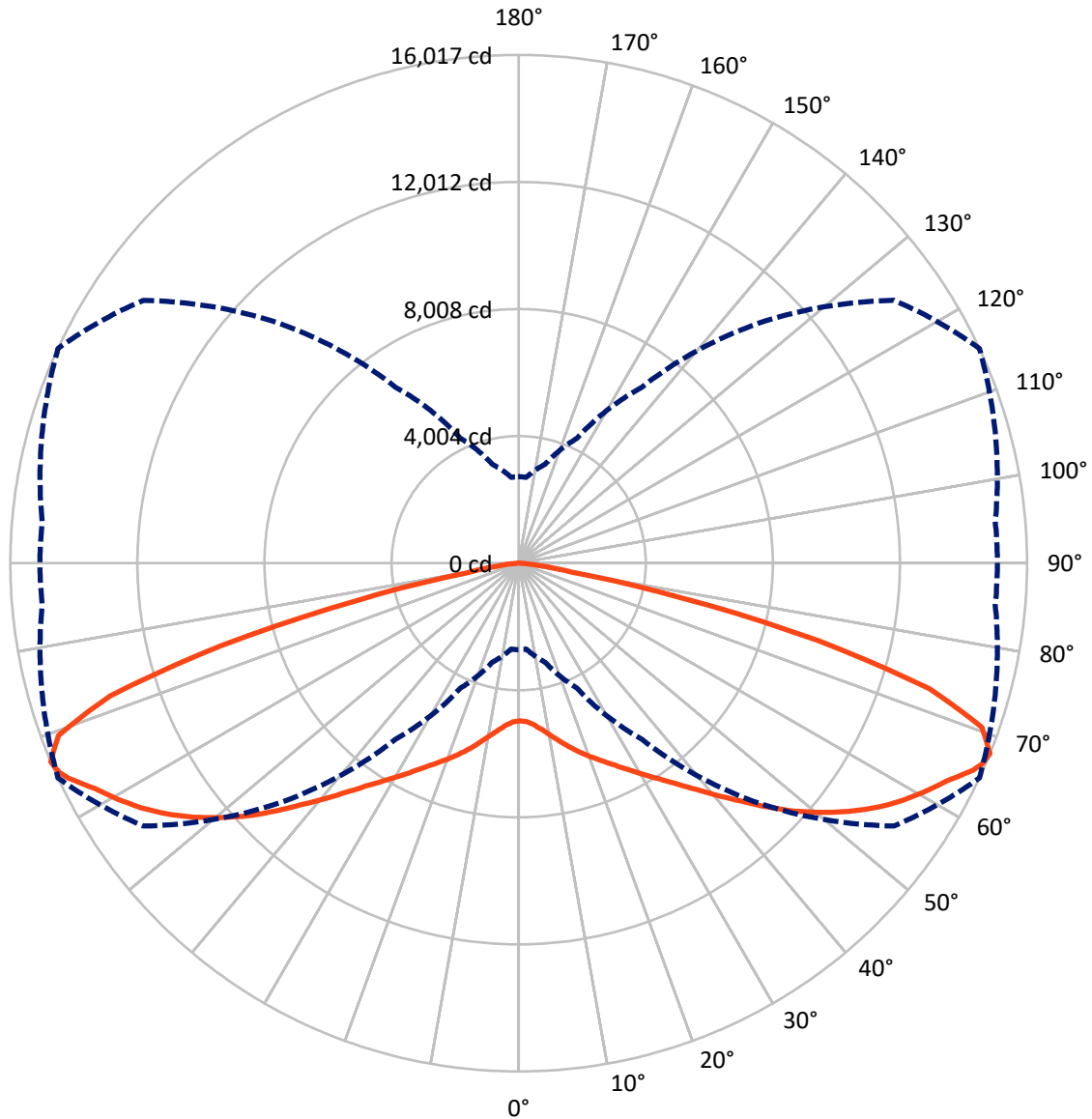
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	23703.5	0.0	23703.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23703.5	0.0	23703.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47407.0	0.0	47407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.7	1.0
10°-20°	1639.1	3.5
20°-30°	3206.1	6.8
30°-40°	5453.2	11.5
40°-50°	8630.9	18.2
50°-60°	11444.3	24.1
60°-70°	10795.5	22.8
70°-80°	5336.8	11.3
80°-90°	411.3	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°	47407.0	100.0
0°-180°	47407.0	100.0

**Coefficient of Utilization**



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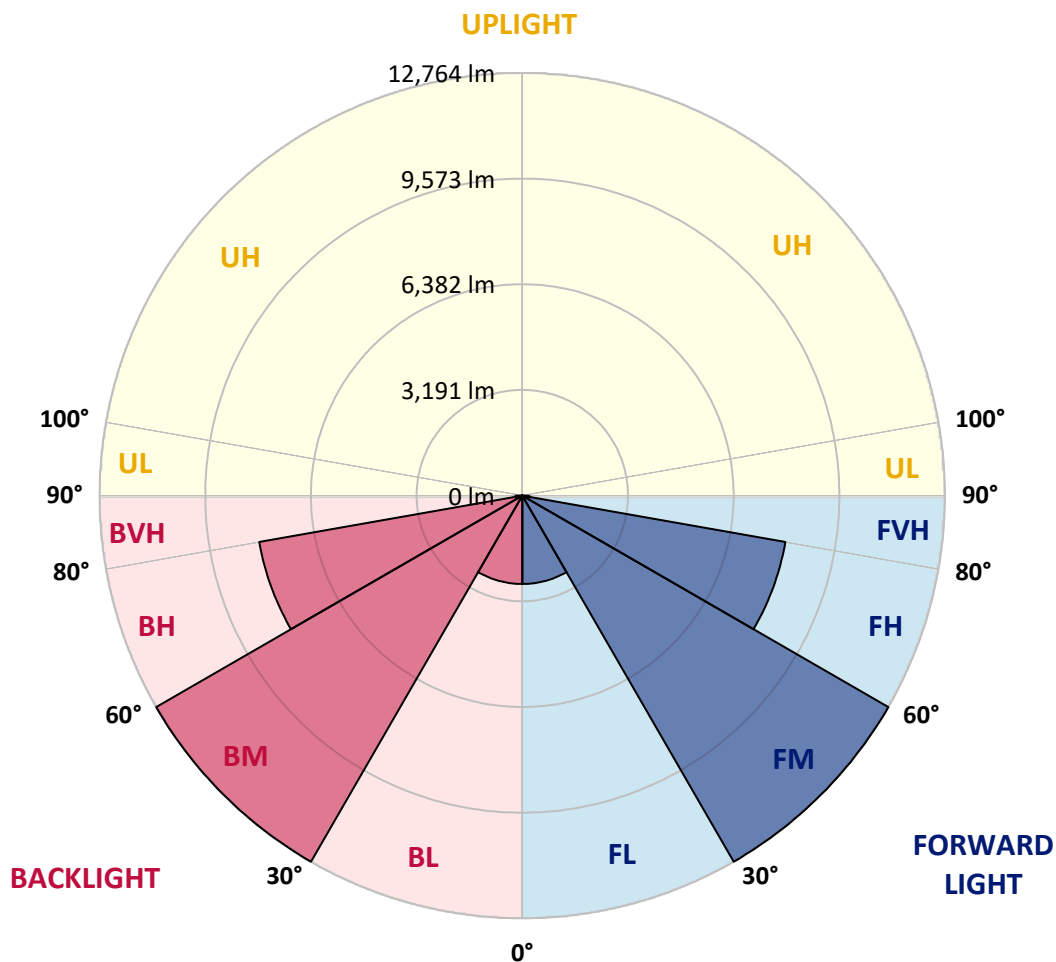
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2667.5	5.6			
FM	(30°-60°)	12764.2	26.9			
FH	(60°-80°)	8066.2	17.0			G4/12000
FVH	(80°-90°)	205.6	0.4			G2/225
BL	(0°-30°)	2667.5	5.6	B4/5000		
BM	(30°-60°)	12764.2	26.9	B5		
BH	(60°-80°)	8066.2	17.0	B5		G5
BVH	(80°-90°)	205.6	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4965.5	4965.5	4965.5	4965.5	4965.5	4965.5	4965.5	4965.5	4965.5	4965.5	4965.5
2.5°	4940.1	4945.1	4950.2	4957.8	4968.0	4983.2	4993.4	5001.0	5021.3	5023.9	5021.3
5°	4922.3	4927.4	4940.1	4962.9	4995.9	5041.7	5077.2	5120.4	5153.4	5176.3	5171.2
7.5°	4919.7	4929.9	4950.2	4998.5	5062.0	5140.7	5222.0	5295.6	5359.1	5409.9	5402.3
10°	4960.4	4973.1	5006.1	5077.2	5176.3	5290.6	5404.9	5514.1	5605.5	5671.6	5694.4
12.5°	5029.0	5039.1	5100.1	5206.8	5349.0	5491.2	5620.8	5755.4	5882.4	5994.1	5994.1
15°	5148.3	5166.1	5242.3	5397.2	5572.5	5737.6	5869.7	6011.9	6149.0	6276.0	6314.1
17.5°	5313.4	5338.8	5453.1	5651.2	5874.7	6027.1	6151.6	6268.4	6387.8	6509.7	6527.5
20°	5539.5	5564.9	5717.3	5956.0	6220.2	6403.0	6486.9	6514.8	6573.2	6690.0	6705.3
22.5°	5846.8	5872.2	6042.4	6311.6	6606.2	6804.3	6839.9	6773.9	6758.6	6850.1	6860.2
25°	6194.8	6217.6	6413.2	6702.7	7007.5	7223.4	7213.3	7050.7	6959.3	7015.1	7030.4
27.5°	6585.9	6618.9	6817.0	7116.7	7446.9	7637.4	7606.9	7370.7	7175.2	7165.0	7170.1
30°	7086.3	7121.8	7309.8	7596.8	7921.9	8097.1	8033.6	7716.2	7413.9	7312.3	7312.3
32.5°	7614.6	7703.5	7893.9	8193.7	8447.6	8574.6	8478.1	8097.1	7695.8	7553.6	7546.0
35°	8302.9	8351.1	8539.1	8831.2	9021.7	9120.7	8935.3	8526.4	8064.1	7896.5	7873.6
37.5°	8975.9	9016.6	9235.0	9514.4	9745.5	9740.4	9489.0	9036.9	8521.3	8333.3	8318.1
40°	9664.2	9707.4	9956.3	10212.9	10444.0	10423.7	10118.9	9613.4	9064.8	8854.0	8894.7
42.5°	10261.1	10309.4	10591.3	10957.0	11165.3	11160.2	10807.2	10238.3	9666.8	9478.8	9514.4
45°	10804.6	10847.8	11175.5	11594.6	11899.3	11937.4	11551.4	10949.4	10362.7	10121.4	10131.6
47.5°	11188.2	11269.4	11612.3	12092.4	12506.4	12641.0	12262.5	11673.3	10997.7	10746.2	10761.5
50°	11480.3	11531.1	11904.4	12450.5	12973.7	13253.1	12948.3	12343.8	11632.6	11366.0	11401.5
52.5°	11515.8	11576.8	11983.2	12613.0	13283.6	13707.7	13557.9	12999.1	12280.3	12006.0	12082.2
55°	11226.3	11261.8	11746.9	12511.4	13405.5	14045.5	14083.6	13608.7	12897.5	12689.2	12740.0
57.5°	10400.8	10492.2	11106.9	12036.5	13237.9	14225.9	14477.3	14162.4	13522.3	13316.6	13397.9
60°	9047.1	9138.5	9755.7	10934.2	12605.4	14142.1	14802.4	14652.6	14088.7	13923.6	13966.8
62.5°	7088.8	7081.2	7845.7	9290.9	11348.2	13730.6	15043.7	15125.0	14647.5	14439.2	14505.3
65°	4594.6	4617.5	5356.6	6913.6	9450.9	12684.2	15097.0	15726.9	15196.1	14881.2	14929.4
66°	3695.5	3764.1	4391.5	5826.5	8483.2	11998.4	14937.0	15904.7	15363.7	14982.8	15005.6
67.5°	2727.8	2715.1	3230.7	4338.1	6773.9	10695.4	14436.7	16016.5	15554.2	15074.2	15084.3
70°	1556.9	1554.4	1737.3	2382.4	3982.5	7530.7	12168.6	15480.6	15940.3	15404.4	15376.4
72.5°	1137.9	1130.2	1155.6	1315.7	1943.0	3802.2	8394.3	13529.9	15742.2	15351.0	15272.3
75°	955.0	949.9	944.8	965.2	1089.6	1722.0	4454.9	9732.8	13659.5	14408.7	14327.5
77.5°	779.7	779.7	782.3	777.2	782.3	906.7	1846.5	5216.9	8318.1	9285.8	9511.8
80°	609.6	607.0	650.2	632.4	591.8	581.6	817.8	1678.9	2760.8	2745.6	2265.6
82.5°	449.6	419.1	495.3	482.6	436.9	370.8	477.5	716.2	922.0	599.4	444.5
85°	284.5	281.9	350.5	320.0	266.7	175.3	228.6	307.3	381.0	231.1	188.0
87.5°	50.8	48.3	111.8	81.3	81.3	50.8	63.5	83.8	124.5	86.4	63.5
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)