

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: P652538

Luminaire Tested: **GALN-SA8B-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652538  
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-SA8B-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40328.5 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 - G3

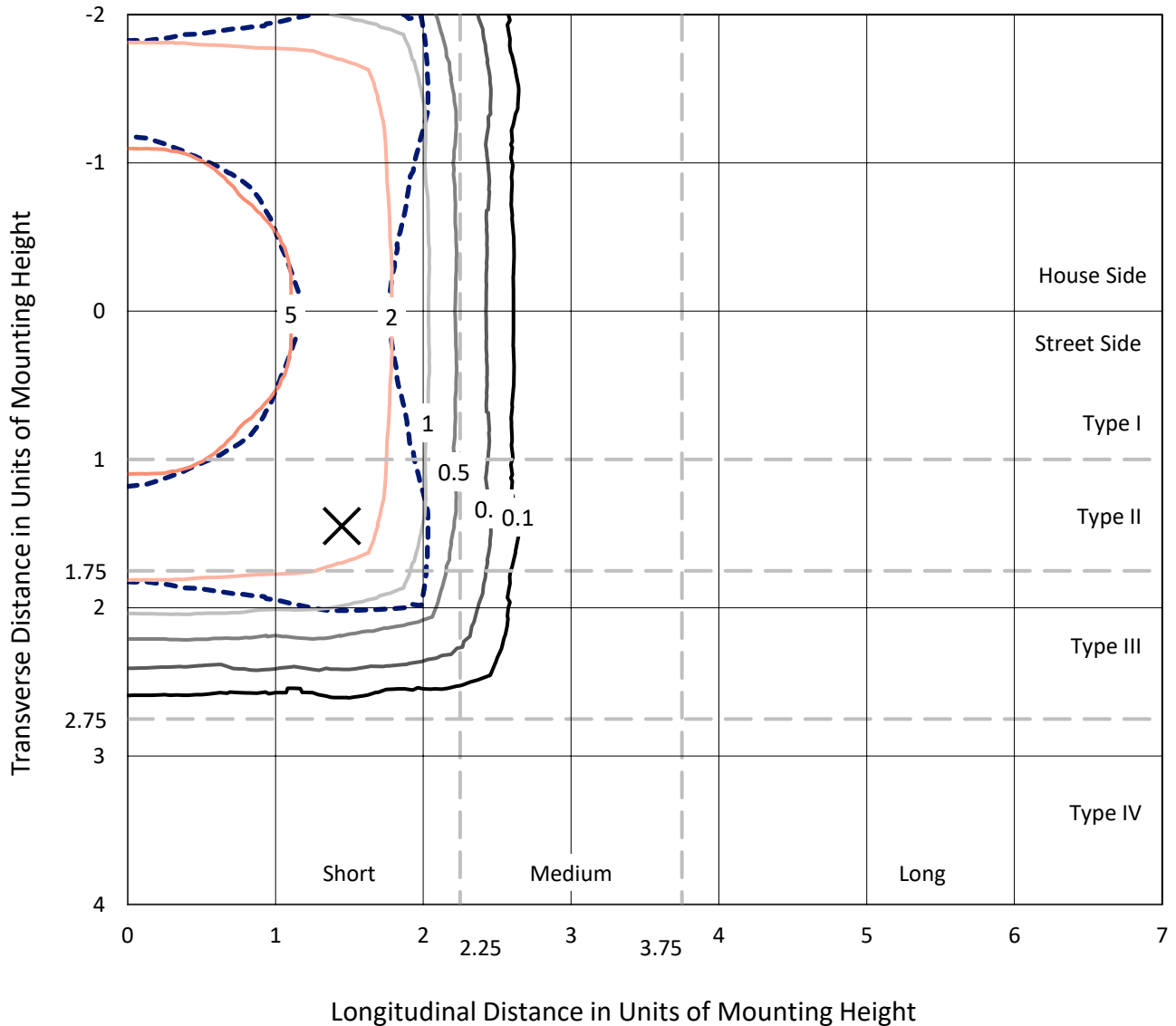
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

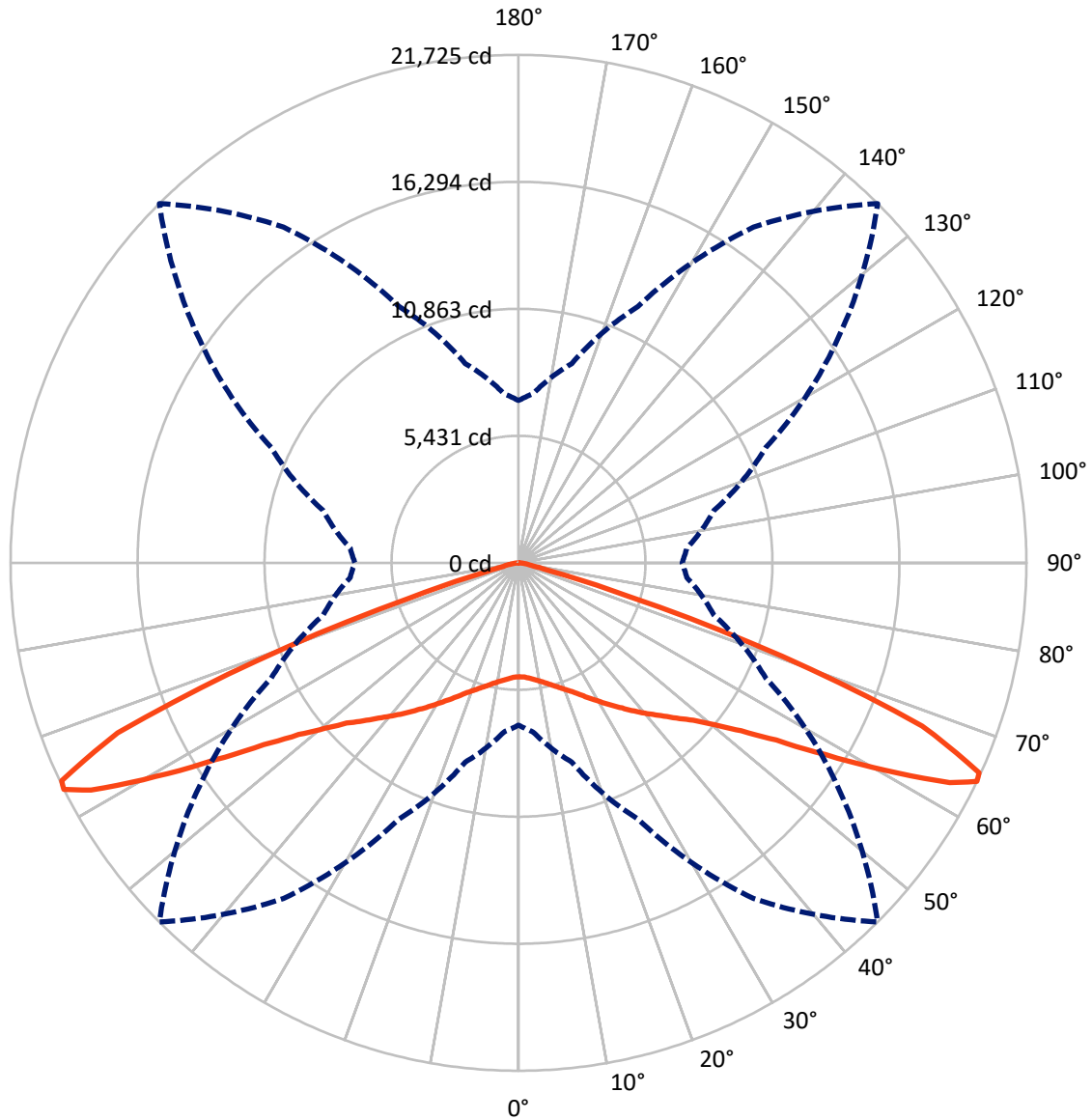
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	20164.2	0.0	20164.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20164.2	0.0	20164.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40328.5	0.0	40328.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	1.2
10°-20°	1544.7	3.8
20°-30°	2919.0	7.2
30°-40°	4834.2	12.0
40°-50°	7547.0	18.7
50°-60°	11667.4	28.9
60°-70°	10060.7	24.9
70°-80°	1140.1	2.8
80°-90°	136.6	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°	40328.5	100.0
0°-180°	40328.5	100.0

**Coefficient of Utilization**



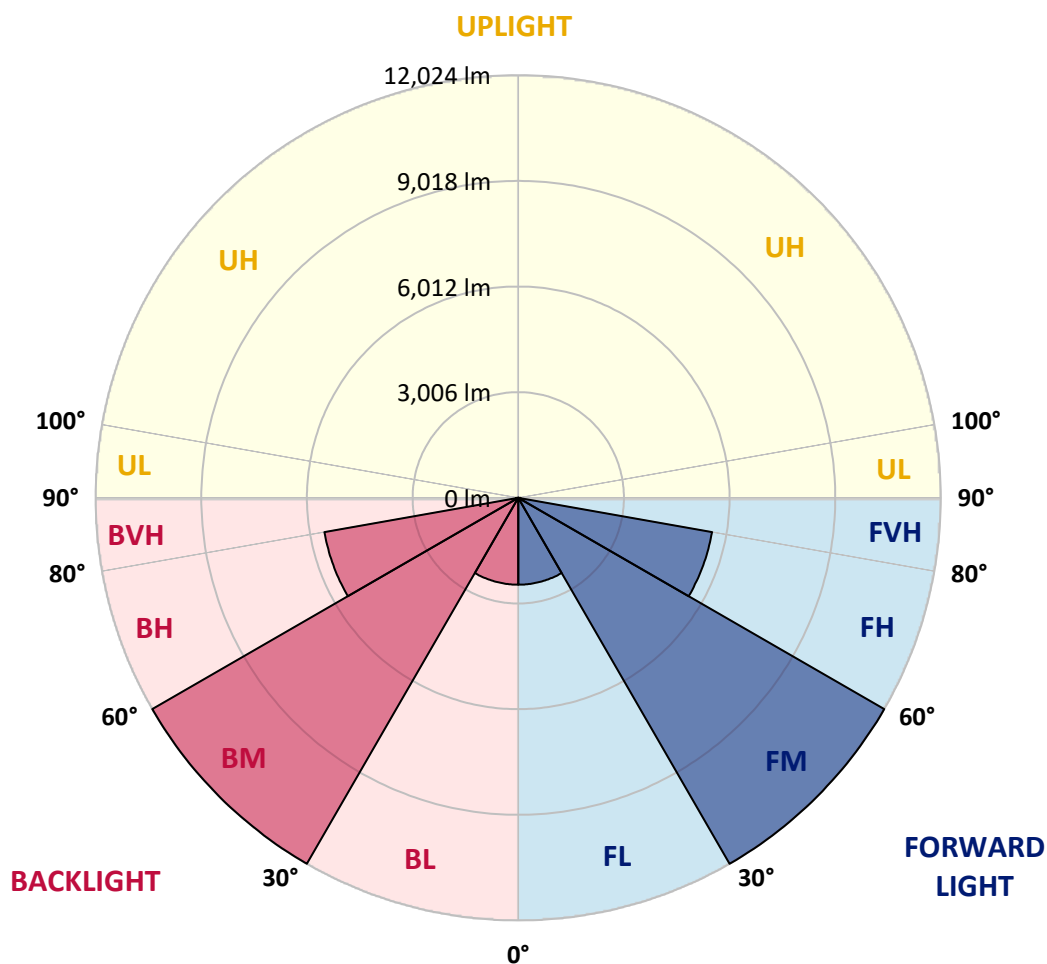
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.3	6.1			
FM (30°-60°)	12024.3	29.8			
FH (60°-80°)	5600.4	13.9			G3/7500
FVH (80°-90°)	68.3	0.2			G1/100
BL (0°-30°)	2471.3	6.1	B3/2500		
BM (30°-60°)	12024.3	29.8	B5		
BH (60°-80°)	5600.4	13.9	B5		G3/7500
BVH (80°-90°)	68.3	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°	4874.4	4874.4	4874.4	4874.4	4874.4	4874.4	4874.4	4874.4	4874.4	4874.4	4874.4
2.5°	4893.6	4904.3	4895.7	4893.6	4891.4	4891.4	4891.4	4893.6	4902.1	4908.6	4904.3
5°	4955.5	4964.1	4959.8	4957.7	4955.5	4957.7	4953.4	4951.3	4957.7	4957.7	4955.5
7.5°	5032.5	5043.1	5038.9	5043.1	5045.2	5047.4	5036.7	5028.2	5026.1	5032.5	5028.2
10°	5137.1	5145.7	5147.8	5149.9	5154.2	5152.1	5139.3	5124.3	5122.1	5120.0	5117.9
12.5°	5254.6	5261.0	5263.1	5271.6	5278.1	5280.2	5265.2	5252.5	5231.1	5235.4	5226.8
15°	5387.0	5399.8	5397.7	5410.5	5427.6	5431.9	5416.9	5395.5	5376.3	5365.7	5359.3
17.5°	5549.3	5557.9	5553.6	5566.4	5587.8	5598.5	5585.7	5557.9	5538.7	5515.2	5502.3
20°	5741.6	5756.6	5760.8	5760.8	5780.0	5790.7	5771.5	5763.0	5733.0	5715.9	5705.3
22.5°	5959.5	5965.9	5978.7	5991.5	6010.7	6006.4	6000.0	5987.2	5959.5	5944.5	5927.5
25°	6205.1	6211.5	6243.6	6271.3	6277.7	6273.4	6264.9	6258.5	6232.9	6198.7	6185.9
27.5°	6491.3	6504.1	6546.8	6572.5	6572.5	6574.6	6557.5	6578.9	6523.4	6482.8	6478.6
30°	6850.2	6858.7	6895.0	6920.7	6907.9	6897.2	6892.9	6914.3	6854.5	6781.8	6764.8
32.5°	7204.8	7234.7	7266.7	7322.3	7277.4	7258.2	7253.9	7268.8	7200.5	7119.3	7095.9
35°	7585.0	7606.3	7666.1	7713.1	7672.5	7627.7	7646.9	7693.9	7612.7	7503.8	7499.5
37.5°	8005.7	8025.0	8101.9	8151.0	8121.1	8044.2	8076.3	8131.8	8050.6	7916.1	7888.2
40°	8443.6	8484.3	8580.4	8631.6	8582.5	8480.0	8539.8	8599.6	8527.0	8371.1	8309.1
42.5°	8935.0	8999.0	9137.9	9163.5	9069.5	8930.7	9035.3	9131.4	9080.2	8900.7	8877.3
45°	9509.5	9548.0	9718.8	9774.4	9644.1	9471.1	9601.4	9776.5	9738.1	9530.9	9486.1
47.5°	10152.5	10188.8	10366.1	10449.3	10284.9	10052.1	10287.0	10515.6	10492.1	10270.0	10248.6
50°	10912.9	10921.4	11167.1	11261.1	11096.6	10895.7	11105.2	11389.2	11295.2	11011.1	11006.8
52.5°	11745.9	11756.6	12066.3	12247.9	12156.1	11929.6	12177.4	12350.4	12111.2	11739.5	11711.8
55°	12467.9	12521.3	12944.3	13427.0	13553.0	13388.5	13463.2	13382.1	12792.5	12271.4	12190.2
57.5°	12762.7	12867.3	13510.2	14411.6	15231.9	15475.4	14898.7	14125.4	13063.8	12326.9	12247.9
60°	12042.8	12156.1	13153.6	14864.5	16957.8	18015.1	16393.9	14251.4	12446.5	11410.6	11286.6
62.5°	9644.1	9676.1	11143.6	13798.6	17963.8	20702.2	17024.0	13177.0	10650.2	9242.5	9193.4
64°	6939.9	7268.8	8823.9	12098.4	17523.8	21725.4	16660.9	11671.1	8650.9	7226.1	6995.4
65°	5190.5	5280.2	7112.9	10331.9	16748.4	21648.4	15956.0	10231.5	7164.1	5530.2	5273.8
67.5°	1960.9	1971.6	2625.2	5149.9	11923.2	18626.0	12177.4	5566.4	3018.2	2183.0	2103.9
70°	813.8	828.8	963.4	1732.3	5124.3	11959.5	5871.9	2007.9	1104.3	895.0	882.2
72.5°	595.9	604.5	645.0	768.9	1576.4	4910.7	1930.9	852.3	647.2	578.9	572.5
75°	467.8	472.1	502.0	566.1	734.8	1360.7	803.2	585.3	493.4	444.3	440.0
77.5°	356.8	367.4	388.8	431.4	493.4	645.0	531.8	437.9	380.2	339.6	333.2
80°	245.7	258.4	299.1	316.1	331.1	418.6	363.1	331.1	296.9	247.8	232.8
82.5°	151.6	160.2	200.7	215.7	209.3	235.0	232.8	237.1	211.4	153.8	143.1
85°	79.1	83.3	108.9	113.2	104.7	96.1	119.6	138.8	130.3	87.5	85.4
87.5°	17.1	19.3	23.5	21.4	23.5	23.5	29.9	44.8	47.0	29.9	27.8
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)