

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: P456977

Luminaire Tested: **GALN-SA8B-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456977  
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-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 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: 47953 lumens  
Efficiency: N/A  
Efficacy: 147.5 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

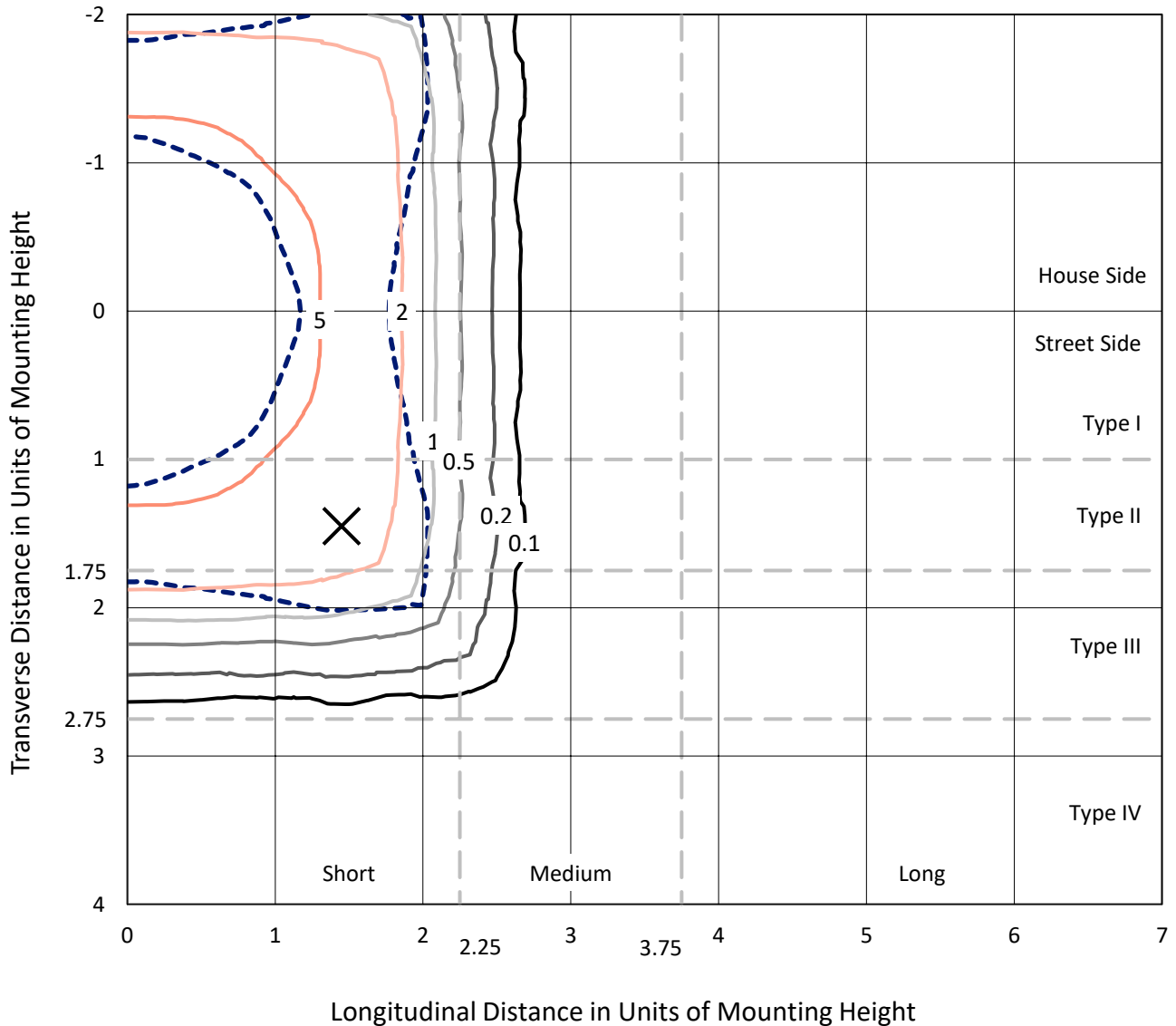
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

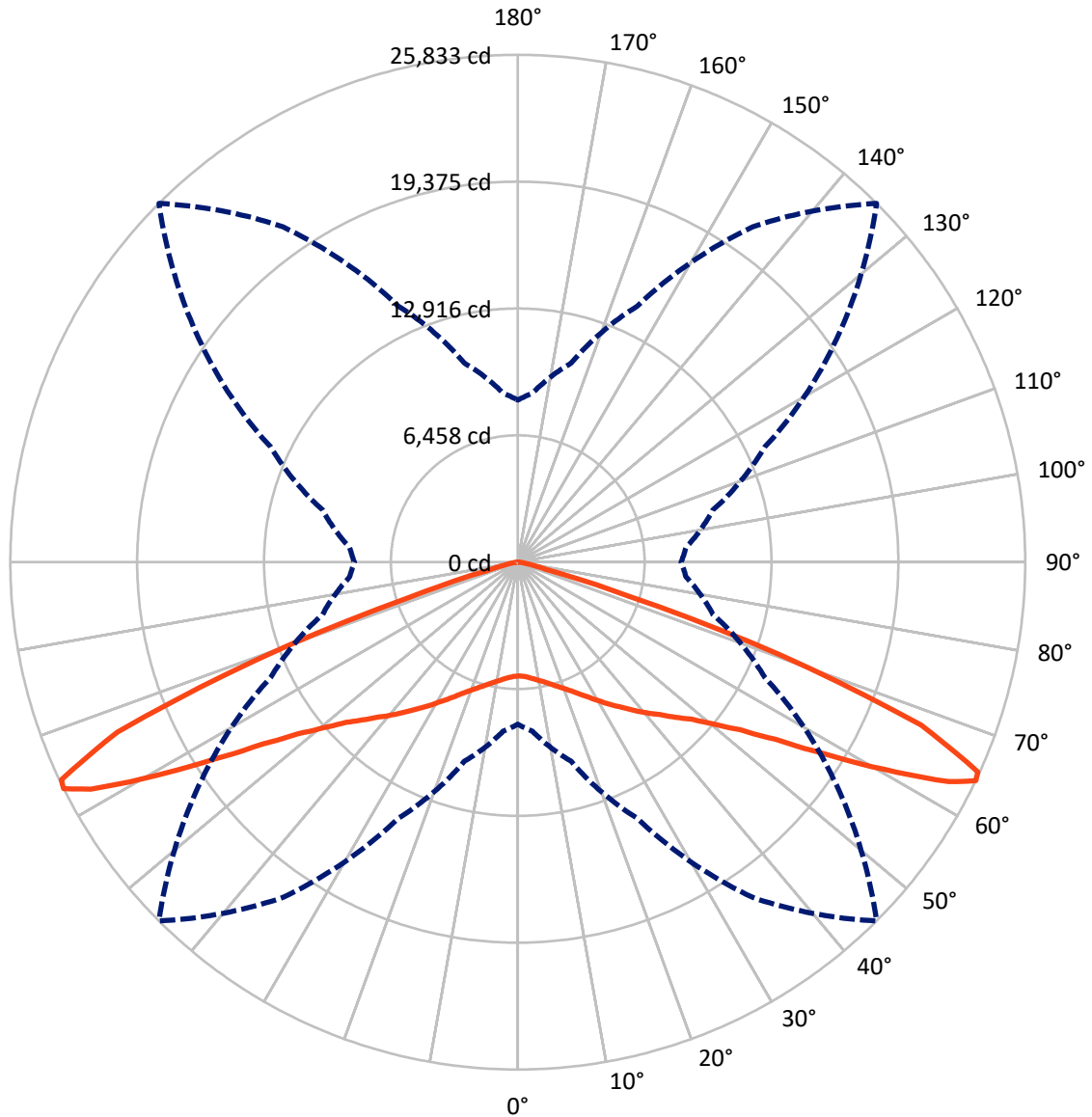
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	23976.5	0.0	23976.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23976.5	0.0	23976.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47953.0	0.0	47953.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.4	1.2
10°-20°	1836.7	3.8
20°-30°	3470.9	7.2
30°-40°	5748.1	12.0
40°-50°	8973.8	18.7
50°-60°	13873.3	28.9
60°-70°	11962.7	24.9
70°-80°	1355.7	2.8
80°-90°	162.4	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°	47953.0	100.0
0°-180°	47953.0	100.0

**Coefficient of Utilization**



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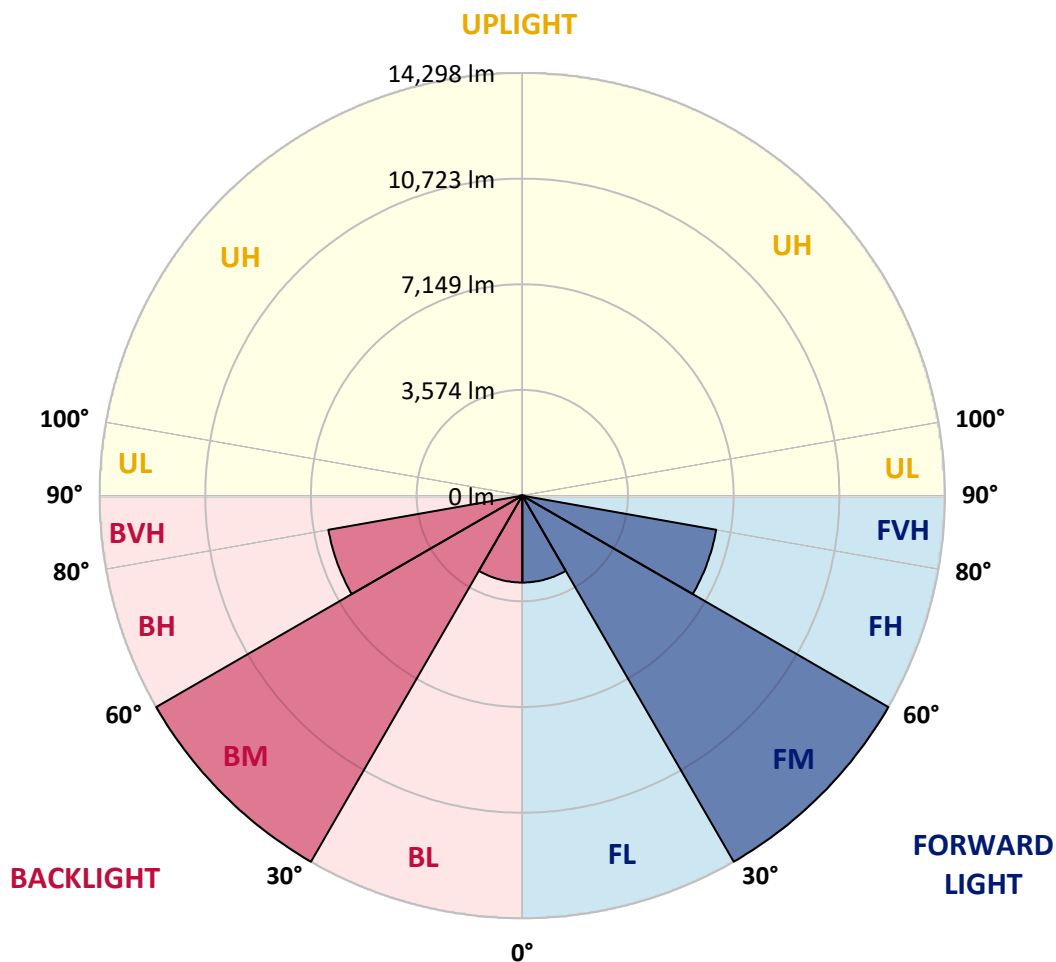
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2938.5	6.1			
FM (30°-60°)	14297.6	29.8			
FH (60°-80°)	6659.2	13.9			G3/7500
FVH (80°-90°)	81.2	0.2			G1/100
BL (0°-30°)	2938.5	6.1	B4/5000		
BM (30°-60°)	14297.6	29.8	B5		
BH (60°-80°)	6659.2	13.9	B5		G3/7500
BVH (80°-90°)	81.2	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°	5795.9	5795.9	5795.9	5795.9	5795.9	5795.9	5795.9	5795.9	5795.9	5795.9	5795.9
2.5°	5818.8	5831.5	5821.3	5818.8	5816.2	5816.2	5818.8	5828.9	5836.6	5831.5	5831.5
5°	5892.4	5902.6	5897.5	5895.0	5892.4	5895.0	5889.9	5887.4	5895.0	5895.0	5892.4
7.5°	5983.9	5996.6	5991.5	5996.6	5999.1	6001.7	5989.0	5978.8	5976.3	5983.9	5978.8
10°	6108.3	6118.5	6121.0	6123.6	6128.6	6126.1	6110.9	6093.1	6090.5	6088.0	6085.5
12.5°	6248.0	6255.6	6258.2	6268.3	6276.0	6278.5	6260.7	6245.5	6220.1	6225.2	6215.0
15°	6405.5	6420.7	6418.2	6433.4	6453.7	6458.8	6441.0	6415.6	6392.8	6380.1	6372.5
17.5°	6598.5	6608.7	6603.6	6618.8	6644.2	6656.9	6641.7	6608.7	6585.8	6557.9	6542.6
20°	6827.1	6844.9	6850.0	6850.0	6872.8	6885.5	6862.7	6852.5	6816.9	6796.6	6783.9
22.5°	7086.2	7093.8	7109.0	7124.3	7147.1	7142.0	7134.4	7119.2	7086.2	7068.4	7048.1
25°	7378.2	7385.9	7424.0	7457.0	7464.6	7459.5	7449.4	7441.7	7411.3	7370.6	7355.4
27.5°	7718.6	7733.8	7784.6	7815.1	7815.1	7817.6	7797.3	7822.7	7756.7	7708.4	7703.4
30°	8145.3	8155.4	8198.6	8229.1	8213.9	8201.2	8196.1	8221.5	8150.4	8064.0	8043.7
32.5°	8566.9	8602.5	8640.6	8706.6	8653.3	8630.4	8625.3	8643.1	8561.8	8465.3	8437.4
35°	9019.0	9044.4	9115.5	9171.4	9123.1	9069.8	9092.6	9148.5	9052.0	8922.5	8917.4
37.5°	9519.3	9542.2	9633.6	9692.0	9656.5	9565.1	9603.2	9669.2	9572.7	9412.7	9379.6
40°	10040.0	10088.3	10202.6	10263.5	10205.1	10083.2	10154.3	10225.4	10139.1	9953.7	9880.0
42.5°	10624.2	10700.4	10865.5	10895.9	10784.2	10619.1	10743.5	10857.8	10796.9	10583.5	10555.6
45°	11307.4	11353.1	11556.3	11622.3	11467.4	11261.7	11416.6	11624.9	11579.2	11332.8	11279.5
47.5°	12071.9	12115.1	12325.9	12424.9	12229.4	11952.5	12231.9	12503.7	12475.7	12211.6	12186.2
50°	12976.1	12986.2	13278.3	13390.1	13194.5	12955.7	13204.7	13542.5	13430.7	13092.9	13087.8
52.5°	13966.6	13979.3	14347.6	14563.5	14454.3	14185.0	14479.7	14685.4	14400.9	13959.0	13926.0
55°	14825.1	14888.6	15391.5	15965.5	16115.3	15919.7	16008.6	15912.1	15211.1	14591.4	14494.9
57.5°	15175.6	15300.0	16064.5	17136.3	18111.6	18401.2	17715.4	16796.0	15533.7	14657.4	14563.5
60°	14319.6	14454.3	15640.4	17674.8	20163.8	21421.1	19493.3	16945.8	14799.7	13567.9	13420.5
62.5°	11467.4	11505.5	13250.4	16407.4	21360.1	24616.2	20242.6	15668.3	12663.7	10989.9	10931.5
64°	8252.0	8643.1	10492.1	14385.7	20836.9	25832.8	19810.8	13877.7	10286.4	8592.3	8318.0
65°	6171.8	6278.5	8457.7	12285.2	19914.9	25741.3	18972.6	12165.9	8518.6	6575.7	6270.9
67.5°	2331.6	2344.3	3121.5	6123.6	14177.4	22147.4	14479.7	6618.8	3588.8	2595.7	2501.7
70°	967.7	985.5	1145.5	2059.8	6093.1	14220.6	6982.0	2387.5	1313.1	1064.2	1049.0
72.5°	708.6	718.8	767.0	914.3	1874.4	5839.1	2296.0	1013.4	769.6	688.3	680.7
75°	556.2	561.3	596.9	673.1	873.7	1617.9	955.0	695.9	586.7	528.3	523.2
77.5°	424.2	436.9	462.3	513.0	586.7	767.0	632.4	520.7	452.1	403.8	396.2
80°	292.1	307.3	355.6	375.9	393.7	497.8	431.8	393.7	353.0	294.6	276.8
82.5°	180.3	190.5	238.7	256.5	248.9	279.4	276.8	281.9	251.4	182.9	170.2
85°	94.0	99.1	129.5	134.6	124.5	114.3	142.2	165.1	154.9	104.1	101.6
87.5°	20.3	22.9	27.9	25.4	27.9	27.9	35.6	53.3	55.9	35.6	33.0
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)