

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: P456745

Luminaire Tested: **GALN-SA8A-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456745  
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-SA8A-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38539 lumens  
Efficiency: N/A  
Efficacy: 157.9 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

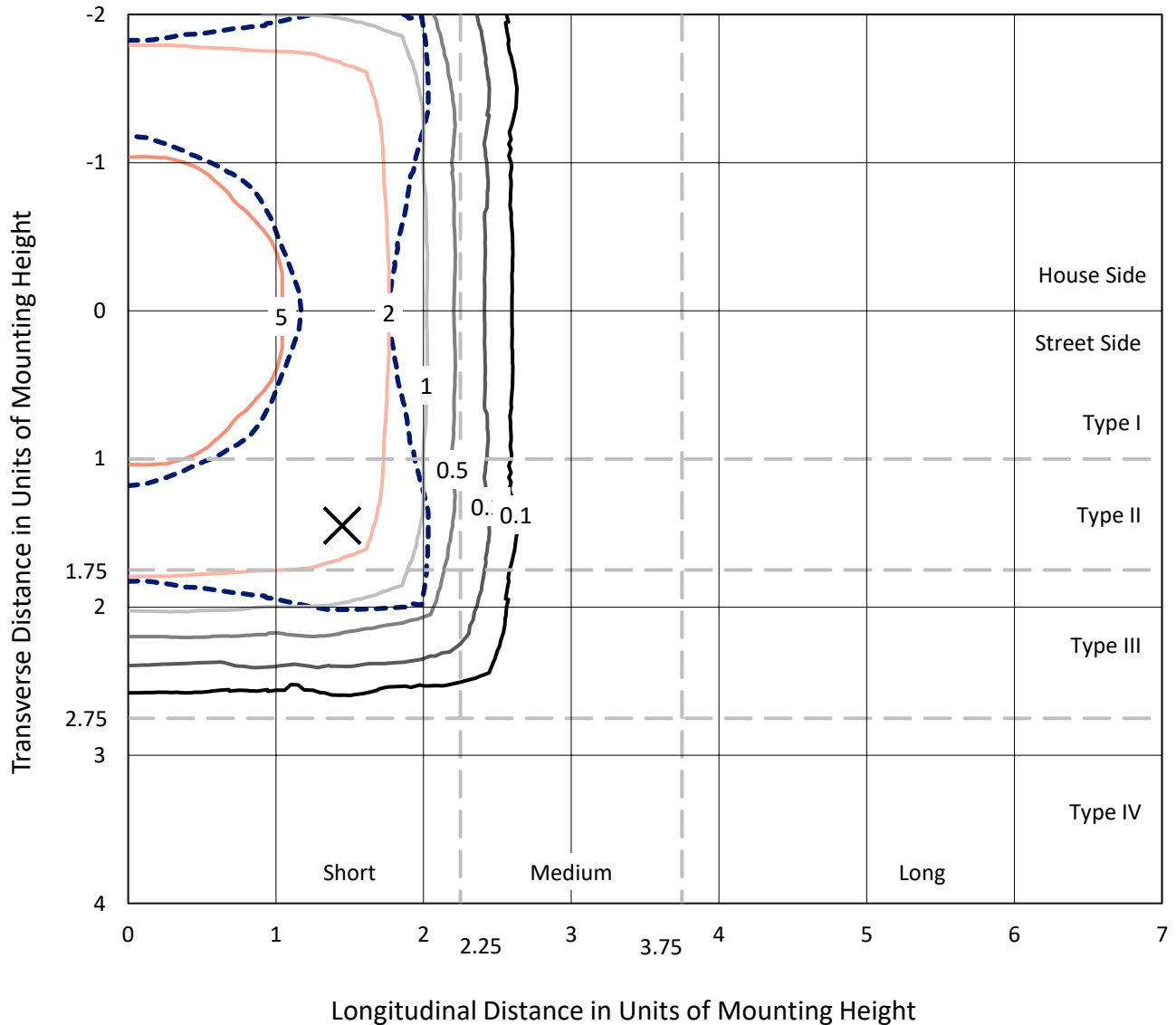
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

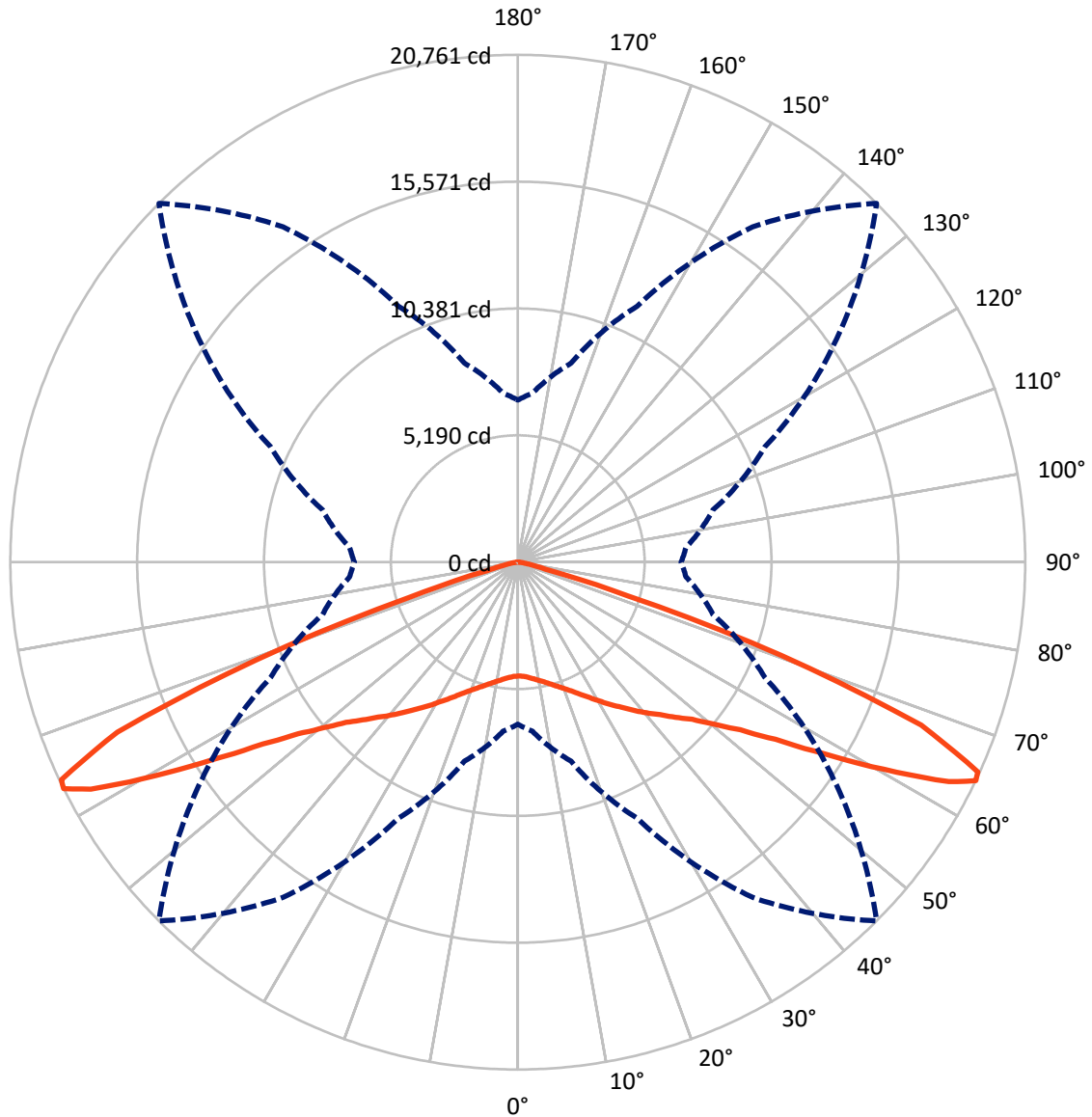
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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CATALOG NUMBER: GALN-SA8A-740-U-5NQ

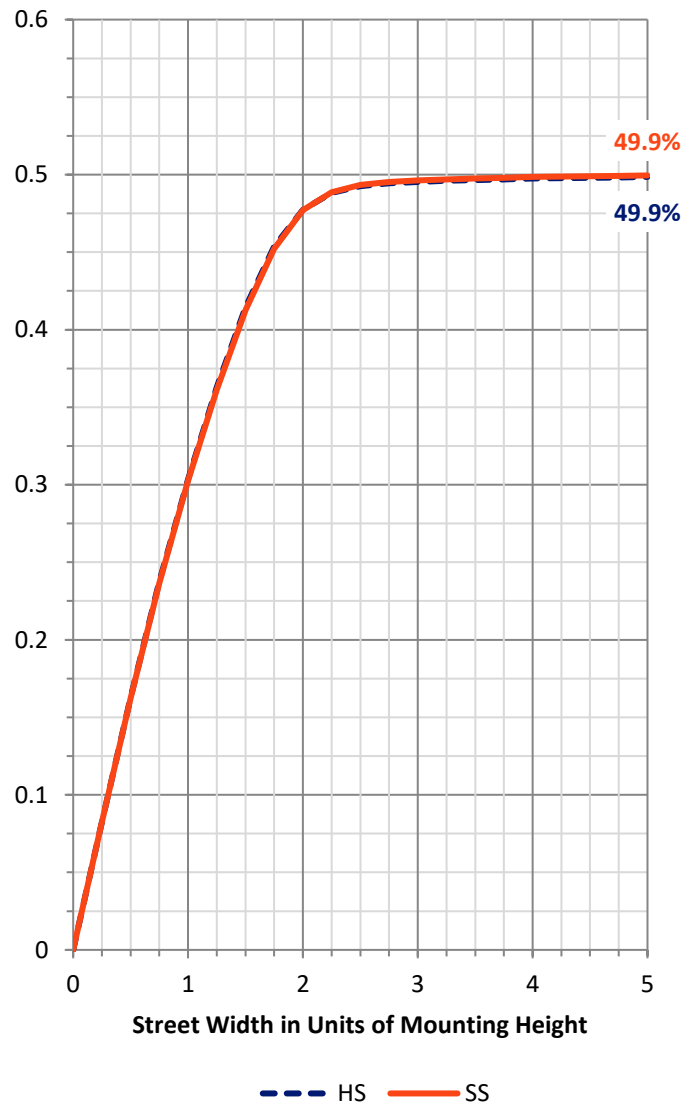
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19269.5	0.0	19269.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19269.5	0.0	19269.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38539.0	0.0	38539.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.6	1.2
10°-20°	1476.1	3.8
20°-30°	2789.5	7.2
30°-40°	4619.7	12.0
40°-50°	7212.1	18.7
50°-60°	11149.7	28.9
60°-70°	9614.2	24.9
70°-80°	1089.5	2.8
80°-90°	130.5	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°	38539.0	100.0
0°-180°	38539.0	100.0



REPORT NUMBER: P456745

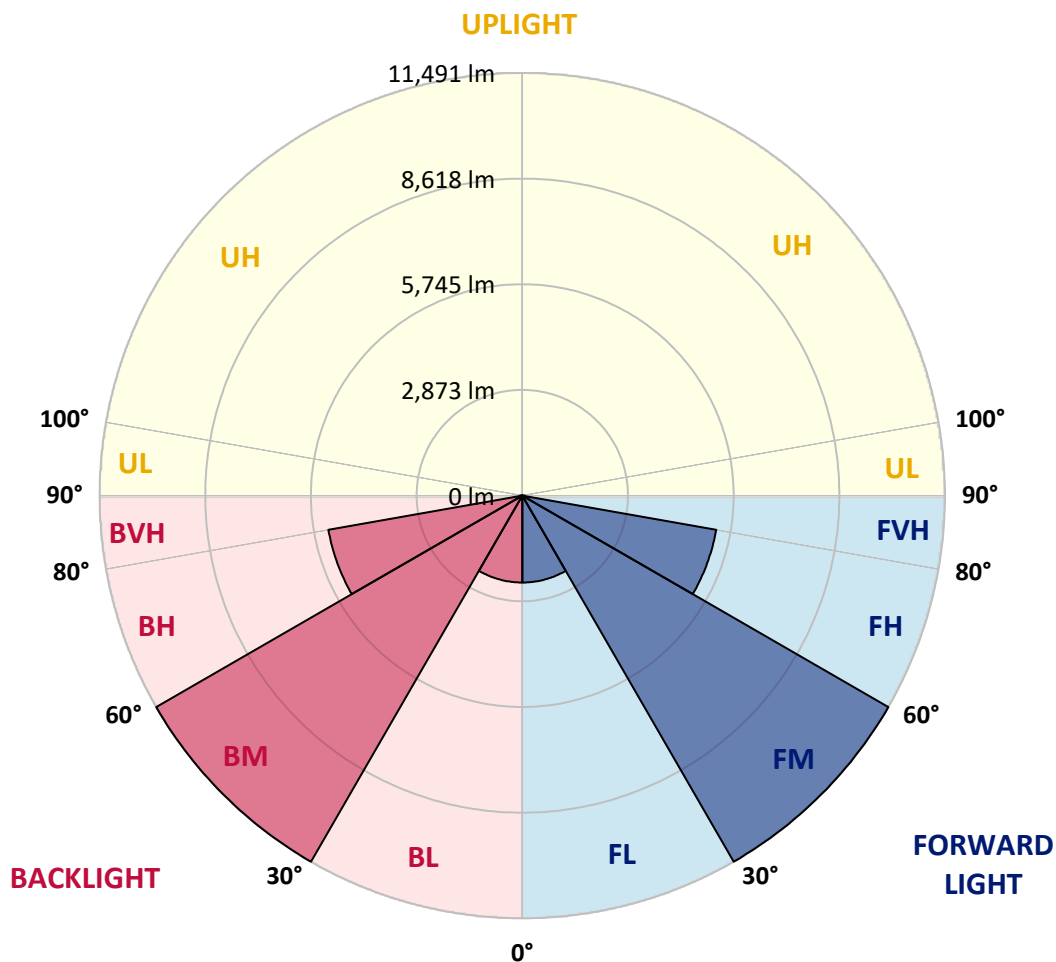
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2361.6	6.1			
FM	(30°-60°)	11490.7	29.8			
FH	(60°-80°)	5351.9	13.9			G3/7500
FVH	(80°-90°)	65.3	0.2			G1/100
BL	(0°-30°)	2361.6	6.1	B3/2500		
BM	(30°-60°)	11490.7	29.8	B5		
BH	(60°-80°)	5351.9	13.9	B5		G3/7500
BVH	(80°-90°)	65.3	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°	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1
2.5°	4676.5	4686.7	4678.5	4676.5	4674.4	4674.4	4674.4	4676.5	4684.6	4690.7	4686.7
5°	4735.7	4743.8	4739.7	4737.7	4735.7	4737.7	4733.6	4731.6	4737.7	4737.7	4735.7
7.5°	4809.1	4819.3	4815.3	4819.3	4821.4	4823.4	4813.2	4805.1	4803.0	4809.1	4805.1
10°	4909.2	4917.3	4919.4	4921.4	4925.5	4923.4	4911.2	4896.9	4894.9	4892.8	4890.8
12.5°	5021.4	5027.5	5029.6	5037.8	5043.9	5045.9	5031.6	5019.4	4999.0	5003.1	4994.9
15°	5148.0	5160.2	5158.2	5170.4	5186.8	5190.8	5176.6	5156.1	5137.8	5127.6	5121.4
17.5°	5303.1	5311.3	5307.2	5319.4	5339.9	5350.1	5337.8	5311.3	5292.9	5270.5	5258.2
20°	5486.8	5501.1	5505.2	5505.2	5523.6	5533.8	5515.4	5507.2	5478.7	5462.3	5452.1
22.5°	5695.0	5701.2	5713.4	5725.6	5744.0	5739.9	5733.8	5721.6	5695.0	5680.7	5664.4
25°	5929.8	5935.9	5966.5	5993.1	5999.2	5995.1	5986.9	5980.8	5956.3	5923.6	5911.4
27.5°	6203.3	6215.5	6256.4	6280.9	6280.9	6282.9	6266.6	6287.0	6233.9	6195.1	6191.0
30°	6546.2	6554.4	6589.1	6613.6	6601.3	6591.1	6587.0	6607.5	6550.3	6480.9	6464.6
32.5°	6885.1	6913.6	6944.3	6997.3	6954.5	6936.1	6932.0	6946.3	6881.0	6803.4	6781.0
35°	7248.4	7268.8	7326.0	7370.9	7332.1	7289.2	7307.6	7352.5	7274.9	7170.8	7166.8
37.5°	7650.5	7668.9	7742.4	7789.3	7760.8	7687.3	7717.9	7771.0	7693.4	7564.8	7538.3
40°	8069.0	8107.8	8199.6	8248.6	8201.7	8103.7	8160.8	8218.0	8148.6	7999.6	7940.4
42.5°	8538.5	8599.7	8732.4	8756.9	8667.1	8534.4	8634.4	8726.3	8677.3	8505.8	8483.4
45°	9087.6	9124.3	9287.6	9340.7	9216.2	9050.8	9175.3	9342.7	9306.0	9108.0	9065.1
47.5°	9702.0	9736.7	9906.1	9985.7	9828.5	9606.0	9830.6	10049.0	10026.5	9814.2	9793.8
50°	10428.6	10436.8	10671.5	10761.4	10604.2	10412.3	10612.4	10883.8	10794.0	10522.5	10518.5
52.5°	11224.7	11234.9	11530.9	11704.4	11616.6	11400.3	11637.1	11802.4	11573.8	11218.6	11192.1
55°	11914.7	11965.7	12369.9	12831.2	12951.6	12794.4	12865.9	12788.3	12224.9	11726.9	11649.3
57.5°	12196.3	12296.4	12910.8	13772.2	14556.0	14788.7	14237.6	13498.7	12484.2	11779.9	11704.4
60°	11508.5	11616.6	12569.9	14204.9	16205.3	17215.7	15666.4	13619.1	11894.2	10904.2	10785.9
62.5°	9216.2	9246.8	10649.1	13186.3	17166.7	19783.6	16268.6	12592.3	10177.6	8832.4	8785.5
64°	6632.0	6946.3	8432.3	11561.5	16746.2	20761.3	15921.6	11153.3	8267.0	6905.5	6685.0
65°	4960.2	5045.9	6797.3	9873.4	16005.3	20687.9	15248.0	9777.5	6846.3	5284.7	5039.8
67.5°	1873.8	1884.1	2508.7	4921.4	11394.1	17799.5	11637.1	5319.4	2884.3	2086.1	2010.6
70°	777.7	792.0	920.6	1655.4	4896.9	11428.8	5611.3	1918.8	1055.3	855.3	843.0
72.5°	569.5	577.7	616.5	734.8	1506.4	4692.8	1845.3	814.5	618.5	553.2	547.0
75°	447.0	451.1	479.7	540.9	702.2	1300.3	767.5	559.3	471.5	424.6	420.5
77.5°	340.9	351.1	371.5	412.3	471.5	616.5	508.3	418.5	363.3	324.6	318.4
80°	234.7	247.0	285.8	302.1	316.4	400.1	347.0	316.4	283.7	236.8	222.5
82.5°	144.9	153.1	191.9	206.2	200.0	224.5	222.5	226.6	202.1	147.0	136.8
85°	75.5	79.6	104.1	108.2	100.0	91.9	114.3	132.7	124.5	83.7	81.6
87.5°	16.3	18.4	22.5	20.4	22.5	22.5	28.6	42.9	44.9	28.6	26.5
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)