

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: P648523

Luminaire Tested: **GALN-SA7B-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648523
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-SA7B-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 32386.4 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

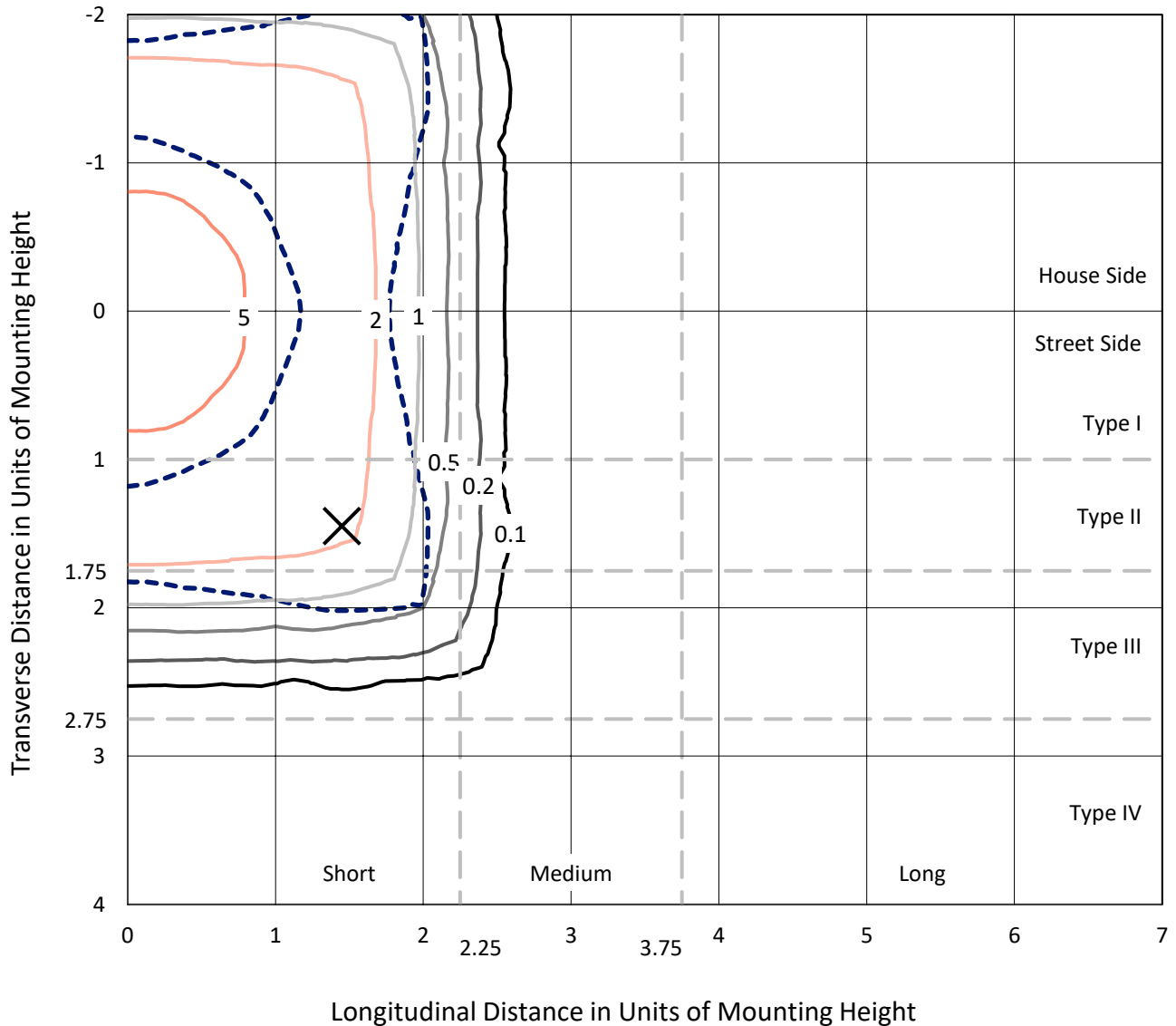
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

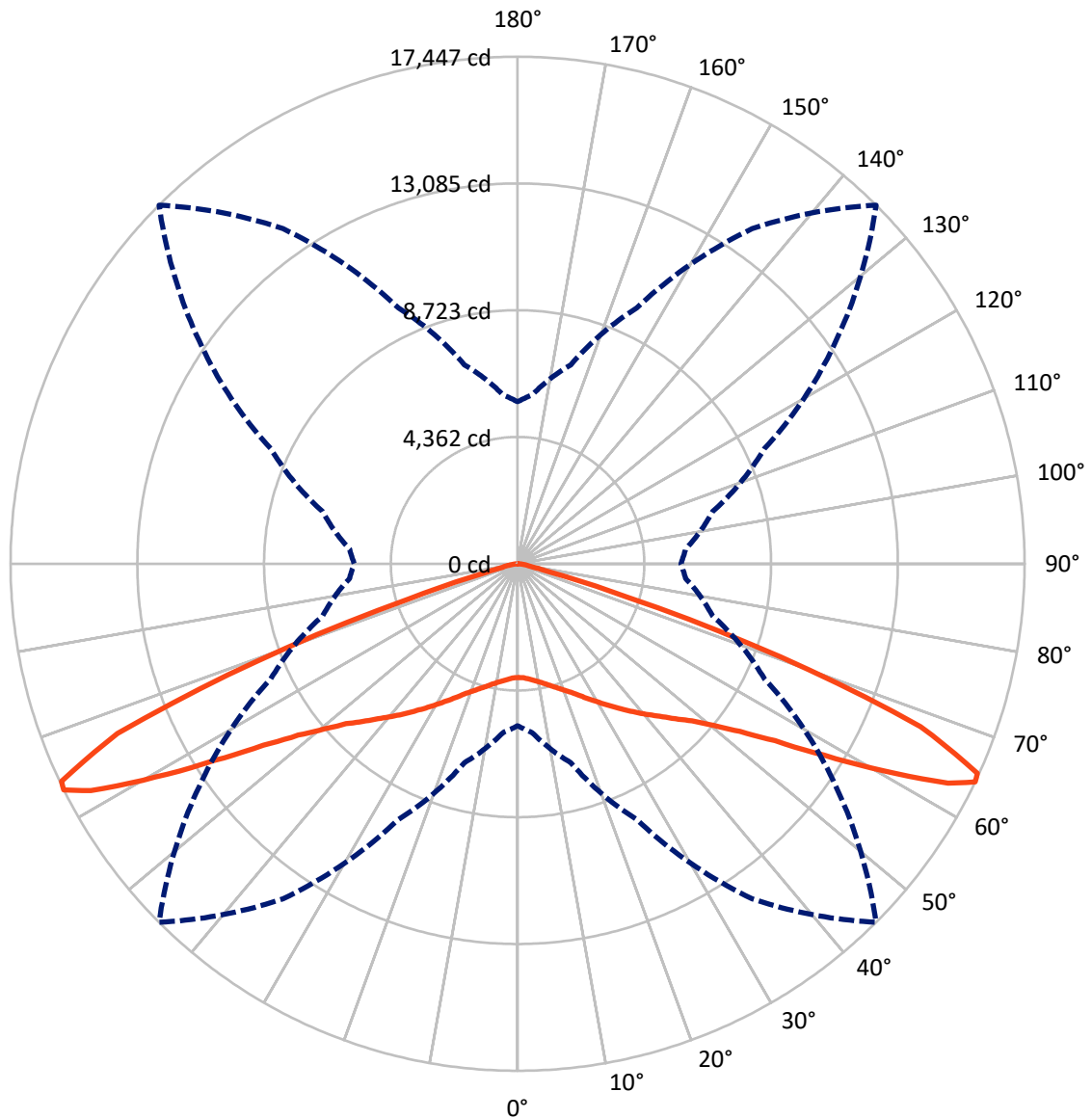
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
House Side	Lumens	16193.2	0.0	16193.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16193.2	0.0	16193.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32386.4	0.0	32386.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.6	1.2
10°-20°	1240.5	3.8
20°-30°	2344.1	7.2
30°-40°	3882.2	12.0
40°-50°	6060.7	18.7
50°-60°	9369.7	28.9
60°-70°	8079.4	24.9
70°-80°	915.6	2.8
80°-90°	109.7	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°	32386.4	100.0
0°-180°	32386.4	100.0



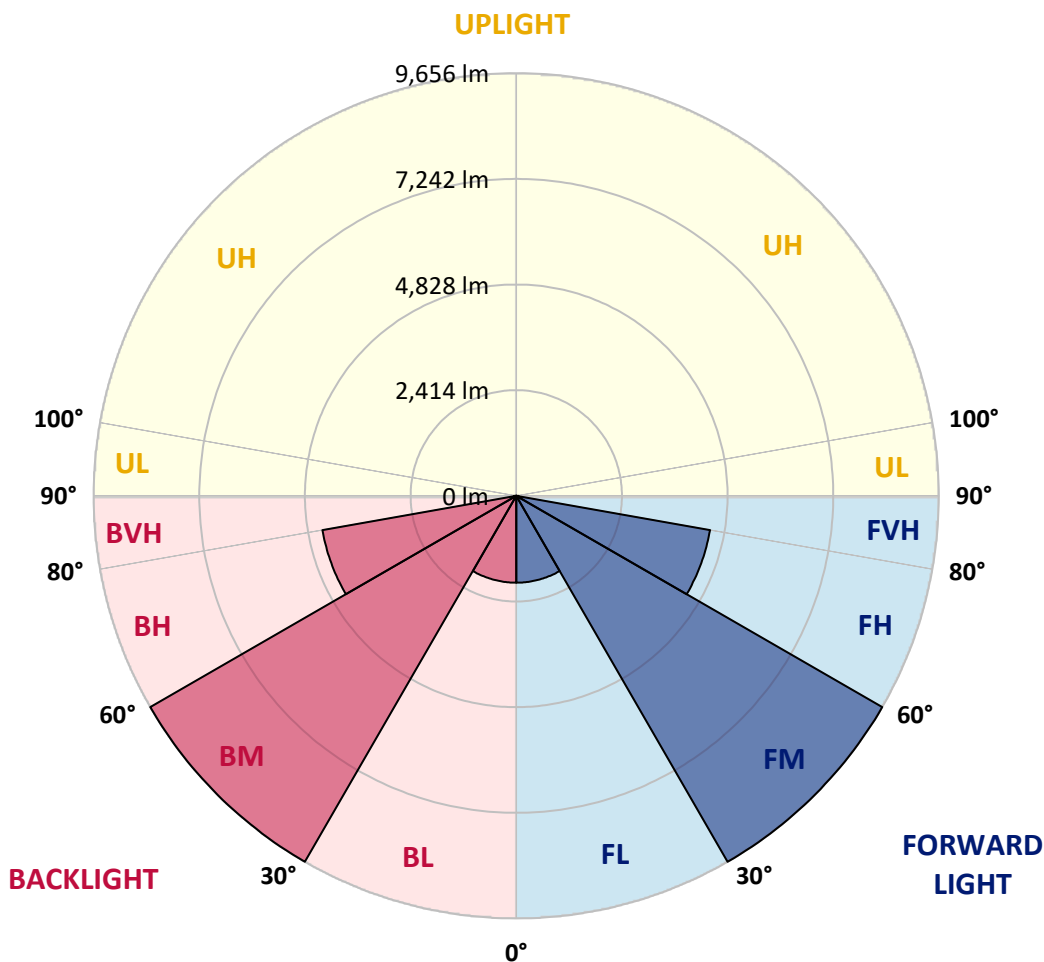
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.6	6.1			
FM (30°-60°)	9656.3	29.8			
FH (60°-80°)	4497.5	13.9			G2/5000
FVH (80°-90°)	54.8	0.2			G1/100
BL (0°-30°)	1984.6	6.1	B3/2500		
BM (30°-60°)	9656.3	29.8	B5		
BH (60°-80°)	4497.5	13.9	B4/5000		G2/5000
BVH (80°-90°)	54.8	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5
2.5°	3929.9	3938.5	3931.6	3929.9	3928.2	3928.2	3928.2	3929.9	3936.8	3941.9	3938.5
5°	3979.6	3986.5	3983.0	3981.3	3979.6	3981.3	3978.0	3976.2	3981.3	3981.3	3979.6
7.5°	4041.4	4050.0	4046.5	4050.0	4051.7	4053.4	4044.8	4037.9	4036.2	4041.4	4037.9
10°	4125.5	4132.3	4134.0	4135.7	4139.2	4137.5	4127.1	4115.1	4113.4	4111.7	4110.0
12.5°	4219.7	4224.9	4226.6	4233.5	4238.6	4240.3	4228.4	4218.1	4200.9	4204.3	4197.5
15°	4326.2	4336.4	4334.7	4345.0	4358.7	4362.2	4350.1	4333.0	4317.5	4309.0	4303.8
17.5°	4456.5	4463.3	4460.0	4470.2	4487.4	4496.0	4485.7	4463.3	4447.9	4429.0	4418.8
20°	4610.9	4622.9	4626.4	4626.4	4641.8	4650.3	4634.9	4628.0	4604.0	4590.3	4581.7
22.5°	4785.9	4791.0	4801.3	4811.6	4827.0	4823.6	4818.4	4808.2	4785.9	4773.9	4760.1
25°	4983.1	4988.3	5014.0	5036.3	5041.4	5038.0	5031.2	5026.0	5005.4	4978.0	4967.7
27.5°	5213.0	5223.2	5257.6	5278.1	5278.1	5279.8	5266.1	5283.3	5238.7	5206.1	5202.6
30°	5501.1	5508.0	5537.1	5557.7	5547.5	5538.9	5535.5	5552.6	5504.6	5446.2	5432.5
32.5°	5785.9	5809.9	5835.6	5880.3	5844.2	5828.8	5825.4	5837.3	5782.5	5717.3	5698.4
35°	6091.3	6108.4	6156.4	6194.2	6161.6	6125.6	6141.0	6178.7	6113.5	6026.0	6022.6
37.5°	6429.1	6444.6	6506.3	6545.8	6521.8	6460.1	6485.7	6530.4	6465.2	6357.1	6334.8
40°	6780.8	6813.4	6890.6	6931.7	6892.3	6810.0	6858.0	6906.1	6847.7	6722.5	6672.7
42.5°	7175.3	7226.8	7338.3	7358.9	7283.4	7171.9	7256.0	7333.2	7292.0	7147.9	7129.1
45°	7636.8	7667.7	7804.9	7849.5	7744.8	7605.9	7710.5	7851.2	7820.3	7653.9	7617.9
47.5°	8153.1	8182.3	8324.6	8391.6	8259.5	8072.5	8261.2	8444.7	8425.9	8247.4	8230.3
50°	8763.7	8770.6	8967.9	9043.3	8911.3	8750.0	8918.1	9146.3	9070.8	8842.7	8839.2
52.5°	9432.7	9441.3	9690.1	9835.9	9762.1	9580.2	9779.3	9918.2	9726.1	9427.6	9405.3
55°	10012.5	10055.4	10395.0	10782.8	10883.9	10751.8	10811.9	10746.8	10273.3	9854.8	9789.5
57.5°	10249.2	10333.3	10849.6	11573.5	12232.2	12427.8	11964.6	11343.6	10491.1	9899.3	9835.9
60°	9671.2	9762.1	10563.1	11937.1	13618.2	14467.3	13165.4	11444.9	9995.4	9163.4	9063.9
62.5°	7744.8	7770.6	8949.0	11081.2	14426.1	16625.3	13671.4	10582.0	8552.8	7422.4	7382.9
64°	5573.2	5837.3	7086.2	9715.8	14072.8	17446.9	13379.8	9372.7	6947.2	5803.0	5617.8
65°	4168.3	4240.3	5712.1	8297.2	13450.1	17385.2	12813.7	8216.6	5753.3	4441.1	4235.2
67.5°	1574.7	1583.3	2108.1	4135.7	9575.2	14957.9	9779.3	4470.2	2423.8	1753.1	1689.6
70°	653.6	665.6	773.6	1391.2	4115.1	9604.3	4715.5	1612.4	886.8	718.7	708.5
72.5°	478.6	485.5	518.0	617.6	1266.0	3943.6	1550.7	684.4	519.8	464.9	459.7
75°	375.7	379.1	403.1	454.5	590.1	1092.7	645.0	470.0	396.3	356.8	353.4
77.5°	286.5	295.0	312.2	346.5	396.3	518.0	427.1	351.6	305.4	272.7	267.6
80°	197.2	207.6	240.1	253.8	265.9	336.2	291.6	265.9	238.4	199.0	187.0
82.5°	121.8	128.6	161.2	173.3	168.1	188.7	187.0	190.4	169.8	123.5	114.9
85°	63.5	66.9	87.5	90.9	84.0	77.2	96.1	111.5	104.6	70.3	68.6
87.5°	13.7	15.4	18.9	17.1	18.9	18.9	24.0	36.0	37.7	24.0	22.3
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)