

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: P647423

Luminaire Tested: **GALN-SA5D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647423
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-SA5D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31657.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

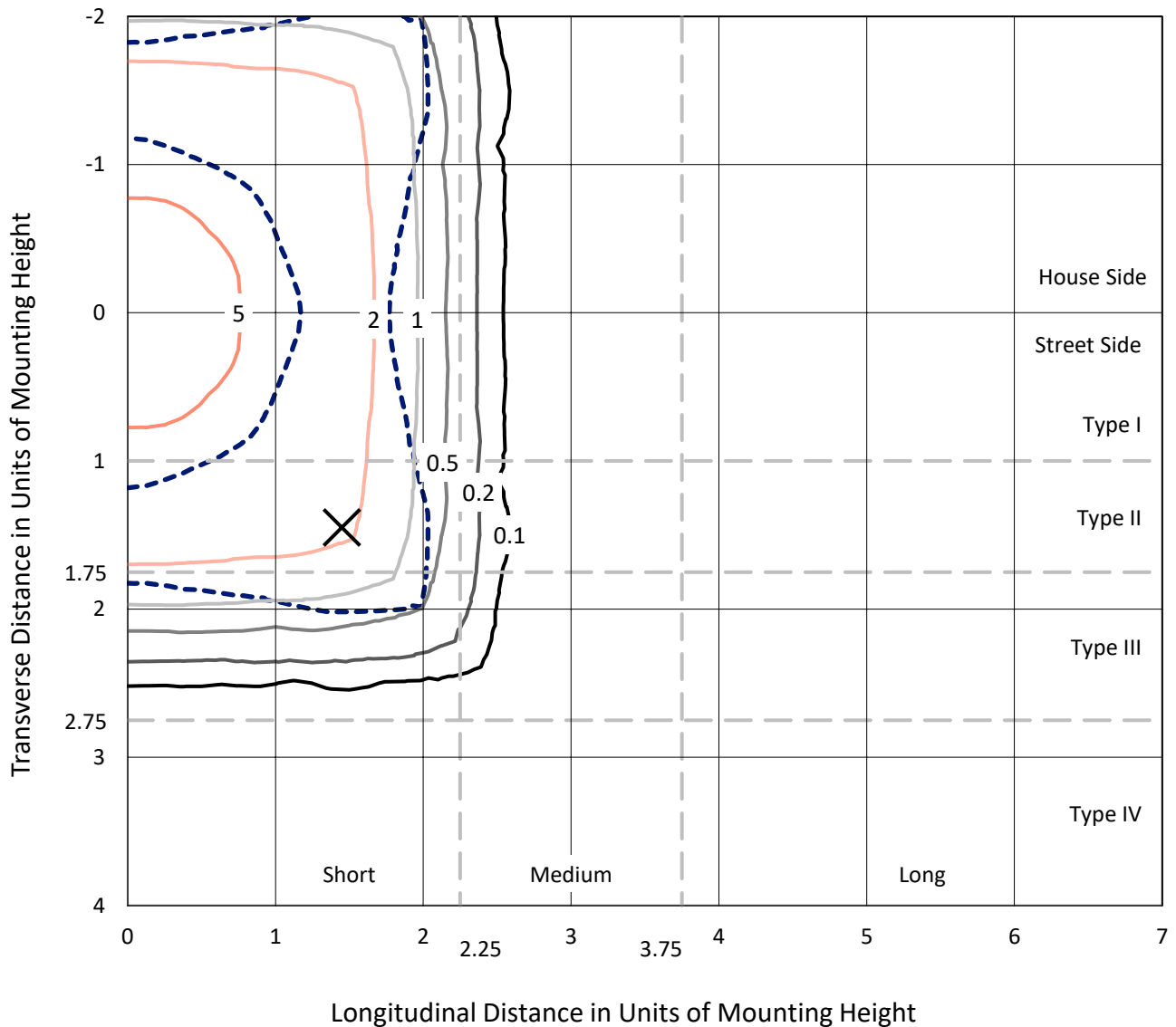
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

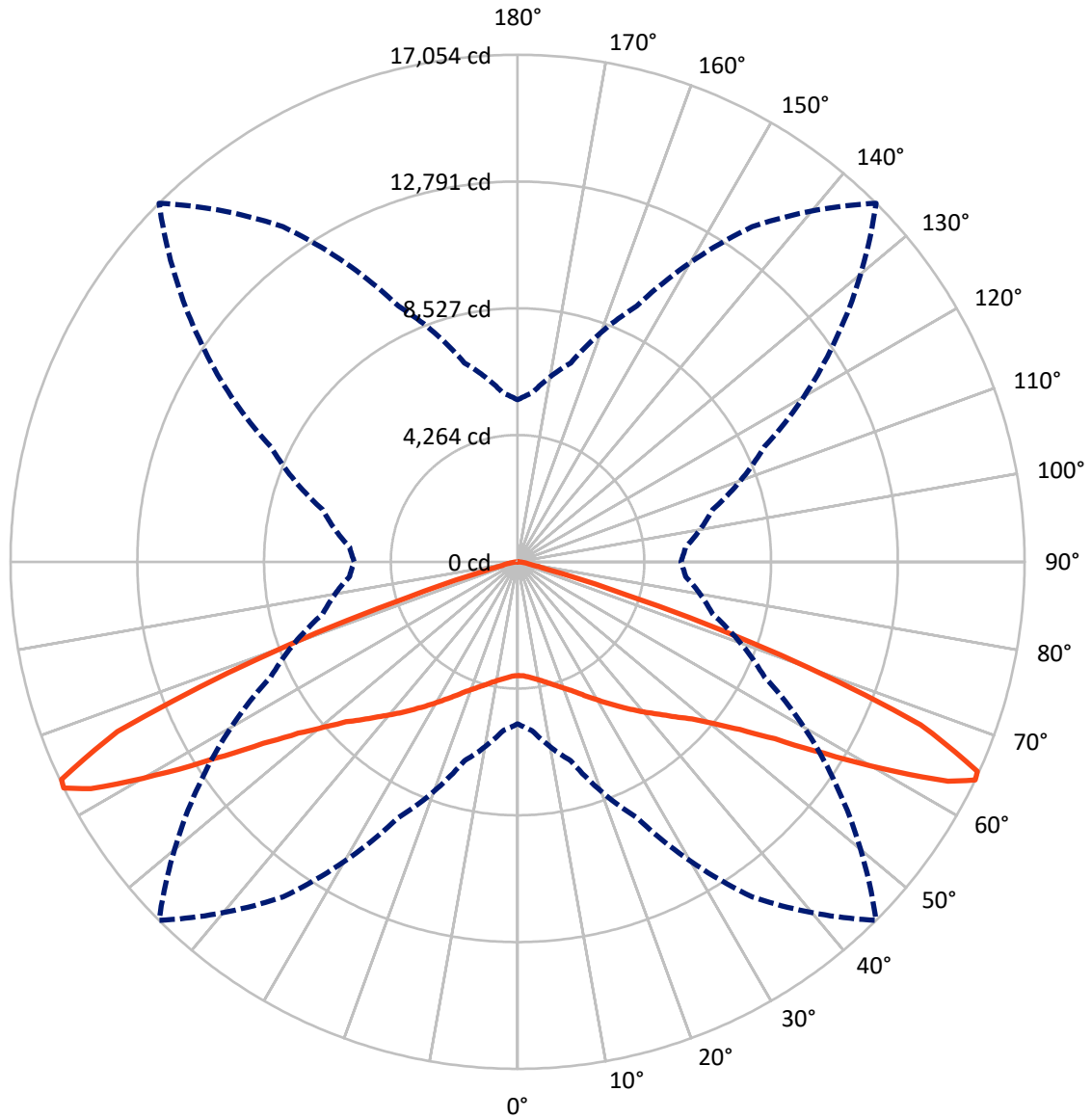
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	15828.7	0.0	15828.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15828.7	0.0	15828.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	31657.5	0.0	31657.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	1.2
10°-20°	1212.6	3.8
20°-30°	2291.4	7.2
30°-40°	3794.8	12.0
40°-50°	5924.3	18.7
50°-60°	9158.8	28.9
60°-70°	7897.5	24.9
70°-80°	895.0	2.8
80°-90°	107.2	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°	31657.5	100.0
0°-180°	31657.5	100.0



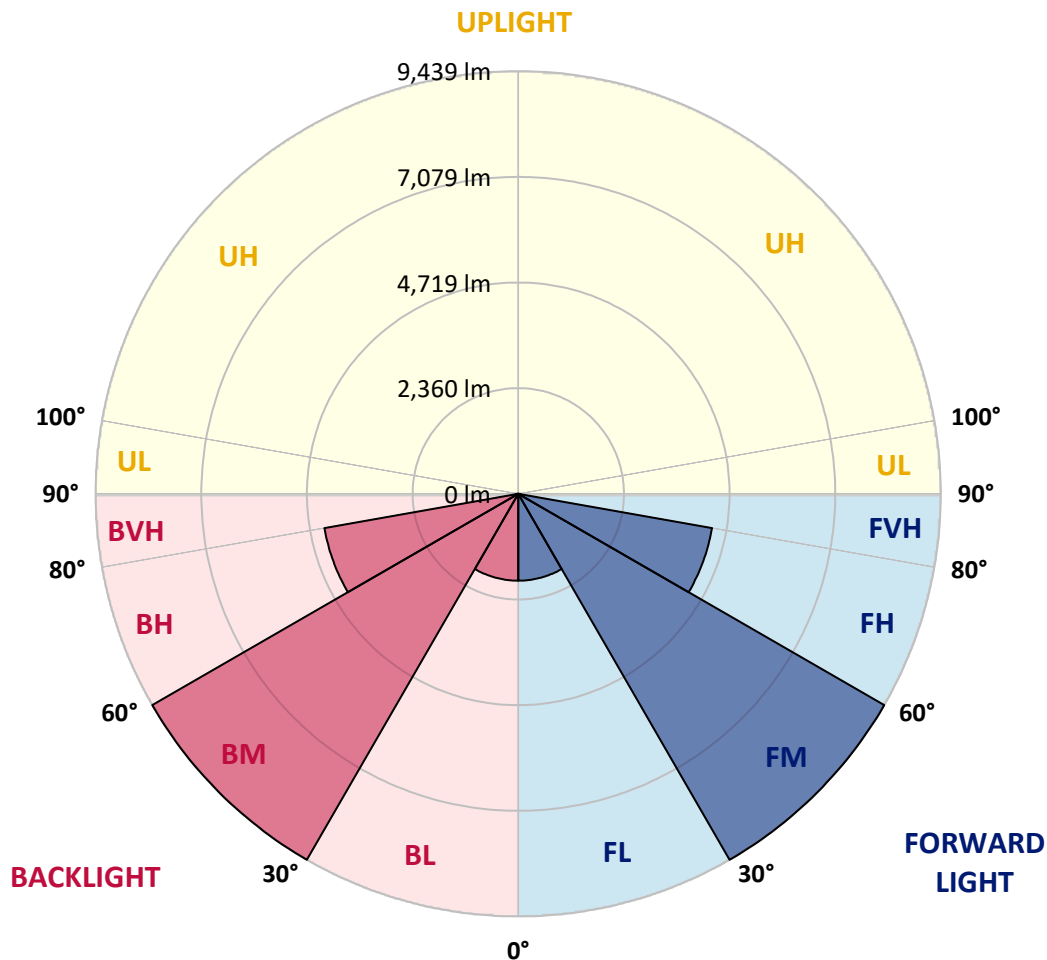
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.9	6.1			
FM (30°-60°)	9438.9	29.8			
FH (60°-80°)	4396.3	13.9			G2/5000
FVH (80°-90°)	53.6	0.2			G1/100
BL (0°-30°)	1939.9	6.1	B3/2500		
BM (30°-60°)	9438.9	29.8	B5		
BH (60°-80°)	4396.3	13.9	B4/5000		G2/5000
BVH (80°-90°)	53.6	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°	3826.4	3826.4	3826.4	3826.4	3826.4	3826.4	3826.4	3826.4	3826.4	3826.4	3826.4
2.5°	3841.4	3849.8	3843.1	3841.4	3839.8	3839.8	3839.8	3841.4	3848.1	3853.1	3849.8
5°	3890.0	3896.8	3893.4	3891.7	3890.0	3891.7	3888.4	3886.7	3891.7	3891.7	3890.0
7.5°	3950.4	3958.8	3955.5	3958.8	3960.5	3962.1	3953.8	3947.0	3945.4	3950.4	3947.0
10°	4032.6	4039.3	4041.0	4042.6	4046.0	4044.4	4034.3	4022.5	4020.9	4019.1	4017.5
12.5°	4124.8	4129.9	4131.5	4138.2	4143.2	4144.9	4133.1	4123.1	4106.4	4109.7	4103.0
15°	4228.7	4238.8	4237.1	4247.2	4260.6	4264.0	4252.2	4235.5	4220.4	4212.0	4207.0
17.5°	4356.2	4362.9	4359.5	4369.6	4386.4	4394.7	4384.7	4362.9	4347.8	4329.4	4319.3
20°	4507.1	4518.8	4522.2	4522.2	4537.3	4545.6	4530.6	4523.9	4500.4	4487.0	4478.6
22.5°	4678.1	4683.1	4693.2	4703.2	4718.4	4715.0	4710.0	4700.0	4678.1	4666.4	4653.0
25°	4871.0	4876.0	4901.1	4923.0	4928.0	4924.6	4917.9	4912.9	4892.7	4866.0	4855.9
27.5°	5095.6	5105.7	5139.2	5159.3	5159.3	5161.1	5147.6	5164.4	5120.8	5089.0	5085.6
30°	5377.3	5384.1	5412.6	5432.7	5422.6	5414.2	5410.8	5427.6	5380.7	5323.7	5310.2
32.5°	5655.7	5679.2	5704.3	5747.9	5712.7	5697.6	5694.2	5706.0	5652.3	5588.6	5570.2
35°	5954.2	5970.9	6017.8	6054.7	6022.9	5987.7	6002.8	6039.7	5975.9	5890.4	5887.1
37.5°	6284.4	6299.5	6359.9	6398.4	6375.0	6314.7	6339.8	6383.4	6319.7	6214.0	6192.2
40°	6628.2	6660.0	6735.5	6775.8	6737.2	6656.7	6703.7	6750.6	6693.6	6571.2	6522.5
42.5°	7013.8	7064.1	7173.1	7193.3	7119.5	7010.5	7092.6	7168.1	7127.9	6987.0	6968.5
45°	7464.9	7495.0	7629.2	7672.8	7570.5	7434.7	7537.0	7674.5	7644.3	7481.6	7446.4
47.5°	7969.6	7998.1	8137.2	8202.6	8073.5	7890.8	8075.2	8254.6	8236.2	8061.8	8045.0
50°	8566.5	8573.2	8766.0	8839.8	8710.7	8553.1	8717.4	8940.5	8866.6	8643.6	8640.2
52.5°	9220.5	9228.8	9472.0	9614.5	9542.3	9364.6	9559.1	9694.9	9507.2	9215.4	9193.6
55°	9787.2	9829.1	10161.1	10540.0	10638.9	10509.8	10568.5	10504.8	10042.1	9632.9	9569.2
57.5°	10018.6	10100.7	10605.4	11313.0	11956.9	12148.0	11695.3	11088.3	10255.0	9676.5	9614.5
60°	9453.5	9542.3	10325.4	11668.5	13311.7	14141.7	12869.1	11187.3	9770.4	8957.2	8860.0
62.5°	7570.5	7595.6	8747.6	10831.8	14101.4	16251.0	13363.7	10343.8	8360.2	7255.3	7216.8
64°	5447.7	5706.0	6926.7	9497.1	13756.1	17054.2	13078.6	9161.7	6790.8	5672.4	5491.3
65°	4074.5	4144.9	5583.6	8110.4	13147.4	16993.8	12525.3	8031.6	5623.8	4341.1	4139.9
67.5°	1539.2	1547.6	2060.7	4042.6	9359.6	14621.3	9559.1	4369.6	2369.3	1713.7	1651.6
70°	638.8	650.6	756.2	1359.8	4022.5	9388.1	4609.4	1576.2	866.9	702.6	692.5
72.5°	467.8	474.5	506.4	603.6	1237.5	3854.9	1515.8	669.0	508.1	454.4	449.4
75°	367.2	370.6	394.0	444.4	576.8	1068.1	630.5	459.5	387.4	348.7	345.4
77.5°	280.0	288.4	305.1	338.7	387.4	506.4	417.5	343.7	298.5	266.6	261.6
80°	192.9	202.9	234.7	248.1	259.9	328.6	285.0	259.9	233.1	194.5	182.8
82.5°	119.0	125.7	157.6	169.4	164.4	184.5	182.8	186.1	166.0	120.7	112.4
85°	62.0	65.4	85.5	88.9	82.1	75.5	93.9	109.0	102.3	68.7	67.1
87.5°	13.4	15.1	18.5	16.8	18.5	18.5	23.5	35.2	36.9	23.5	21.8
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)