

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: P455991

Luminaire Tested: **GALN-SA7B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455991
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-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 34591 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

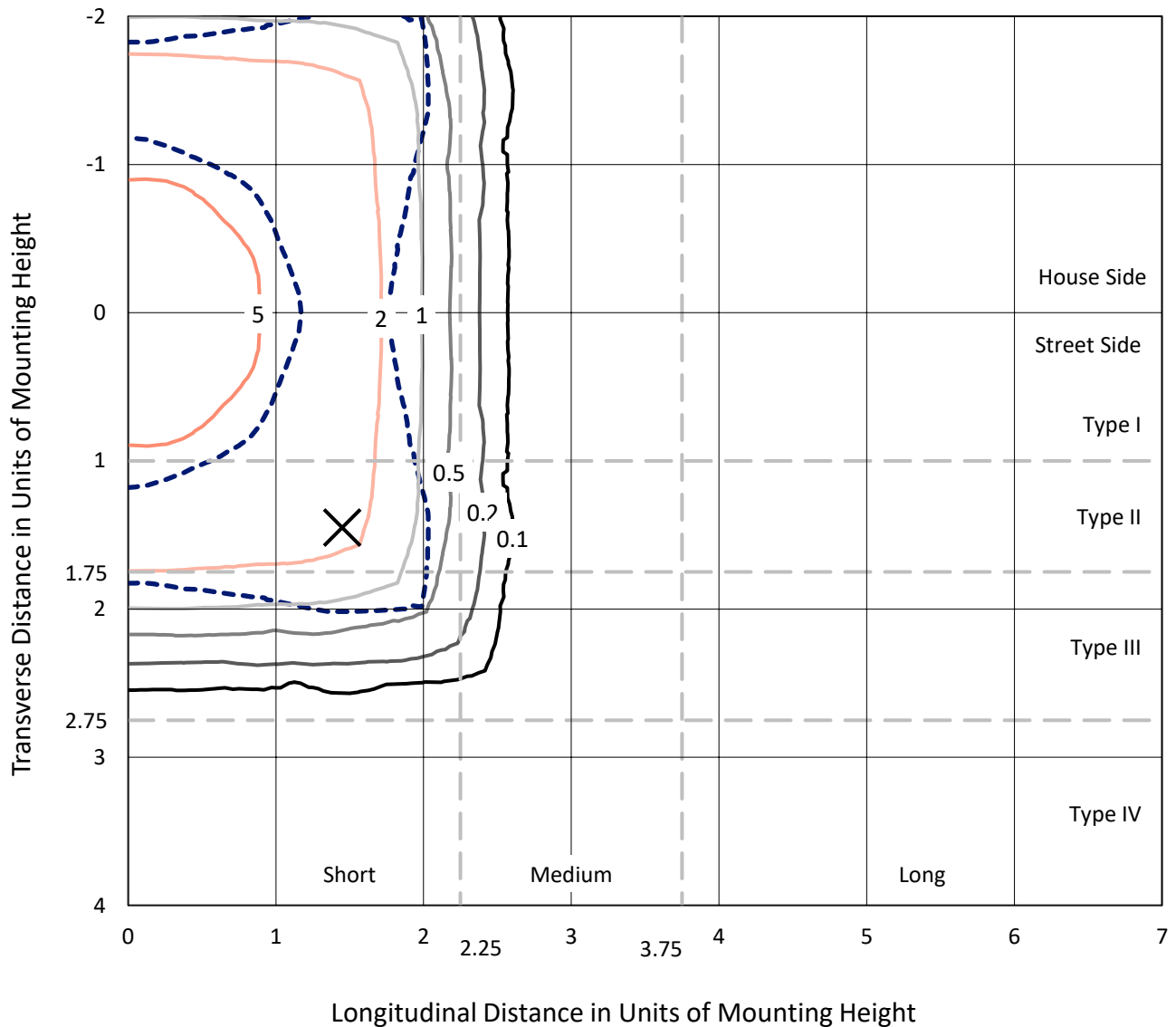
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

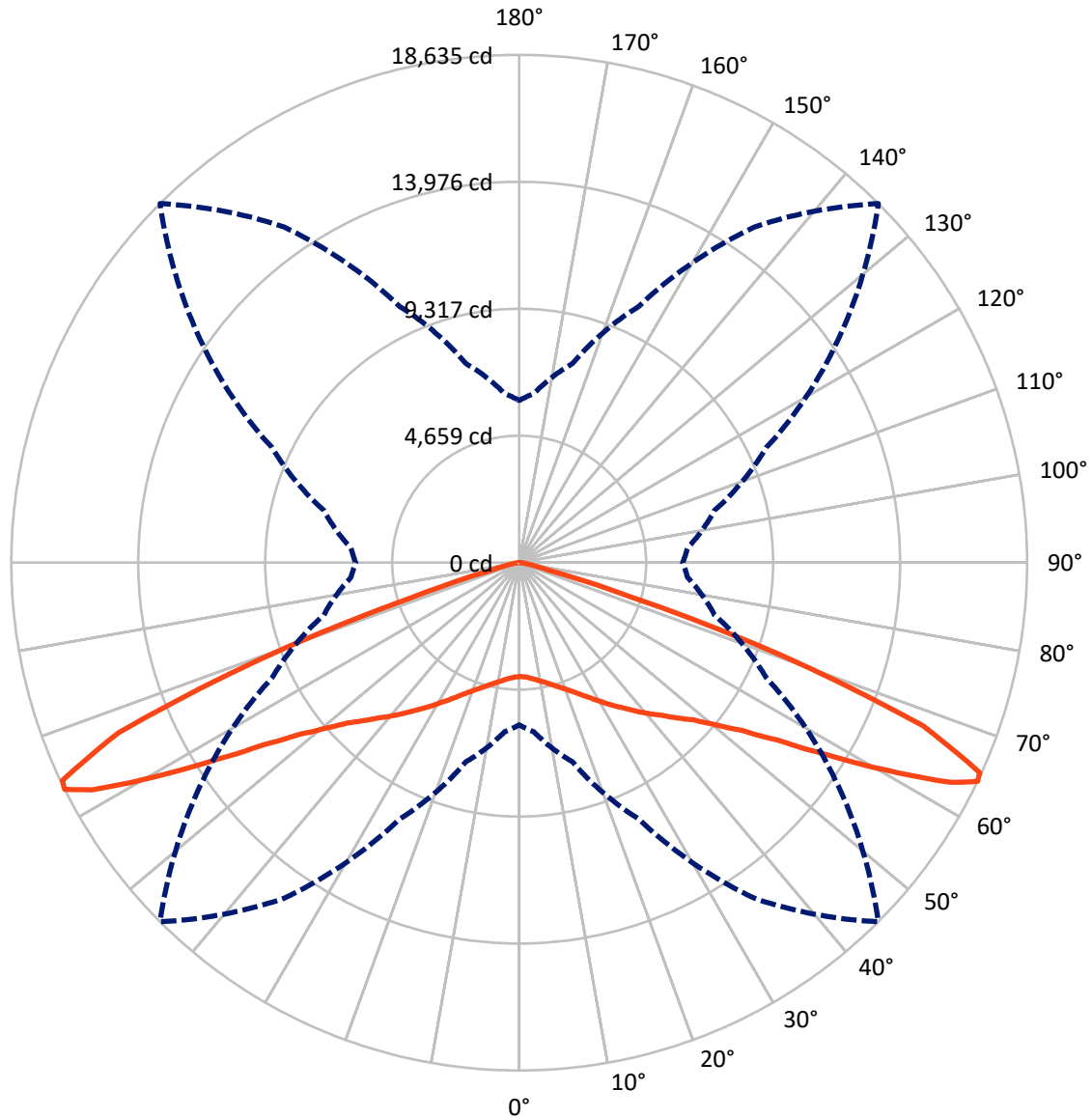
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	17295.5	0.0	17295.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17295.5	0.0	17295.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34591.0	0.0	34591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	1.2
10°-20°	1324.9	3.8
20°-30°	2503.7	7.2
30°-40°	4146.4	12.0
40°-50°	6473.3	18.7
50°-60°	10007.5	28.9
60°-70°	8629.3	24.9
70°-80°	977.9	2.8
80°-90°	117.2	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°	34591.0	100.0
0°-180°	34591.0	100.0

Coefficient of Utilization



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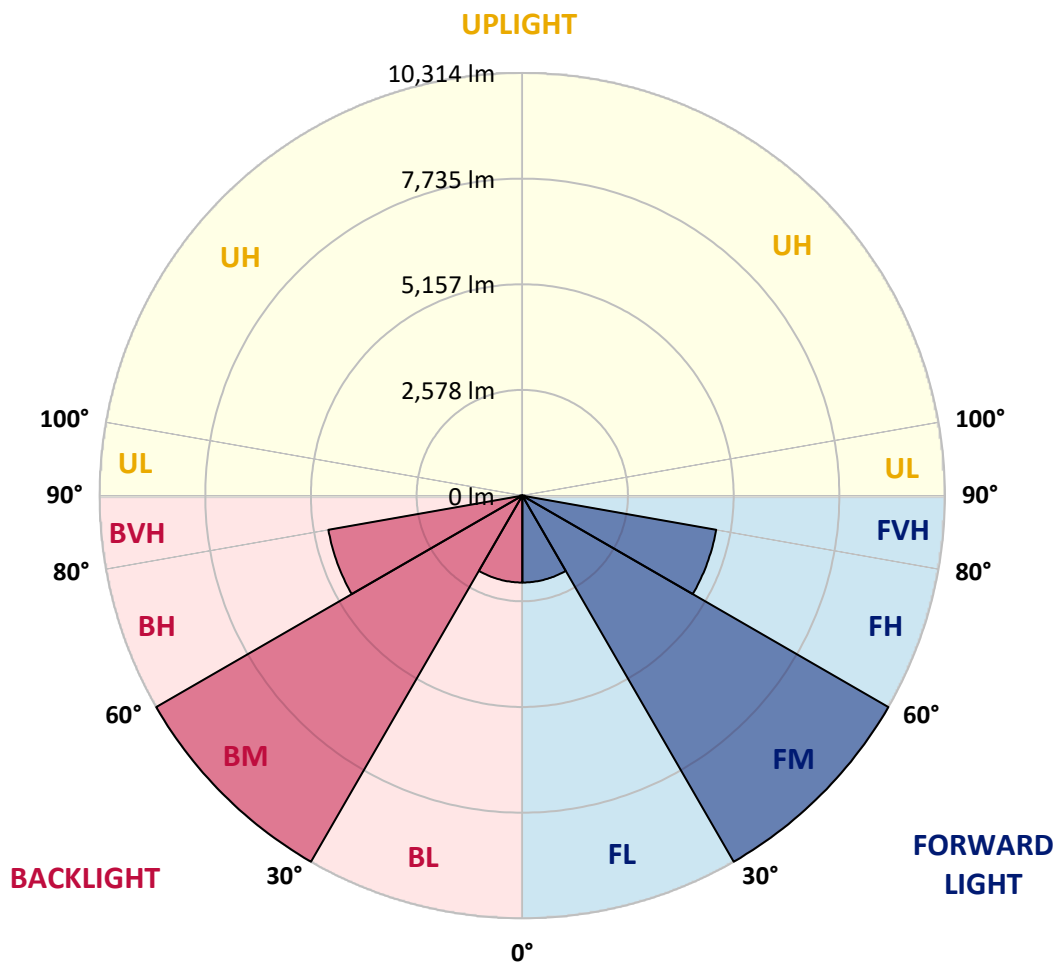
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2119.7	6.1			
FM	(30°-60°)	10313.6	29.8			
FH	(60°-80°)	4803.6	13.9			G2/5000
FVH	(80°-90°)	58.6	0.2			G1/100
BL	(0°-30°)	2119.7	6.1	B3/2500		
BM	(30°-60°)	10313.6	29.8	B5		
BH	(60°-80°)	4803.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	58.6	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°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
2.5°	4197.4	4206.6	4199.2	4197.4	4195.6	4195.6	4195.6	4197.4	4204.7	4210.2	4206.6
5°	4250.5	4257.9	4254.2	4252.4	4250.5	4252.4	4248.7	4246.9	4252.4	4252.4	4250.5
7.5°	4316.5	4325.6	4322.0	4325.6	4327.5	4329.3	4320.1	4312.8	4311.0	4316.5	4312.8
10°	4406.3	4413.6	4415.4	4417.2	4420.9	4419.1	4408.1	4395.3	4393.4	4391.6	4389.8
12.5°	4507.0	4512.5	4514.4	4521.7	4527.2	4529.0	4516.2	4505.2	4486.9	4490.5	4483.2
15°	4620.6	4631.6	4629.8	4640.8	4655.4	4659.1	4646.3	4627.9	4611.5	4602.3	4596.8
17.5°	4759.9	4767.2	4763.5	4774.5	4792.8	4802.0	4791.0	4767.2	4750.7	4730.5	4719.5
20°	4924.7	4937.6	4941.2	4941.2	4957.7	4966.9	4950.4	4943.1	4917.4	4902.8	4893.6
22.5°	5111.6	5117.1	5128.1	5139.1	5155.6	5151.9	5146.4	5135.4	5111.6	5098.8	5084.1
25°	5322.3	5327.8	5355.3	5379.1	5384.6	5380.9	5373.6	5368.1	5346.1	5316.8	5305.8
27.5°	5567.8	5578.8	5615.5	5637.4	5637.4	5639.3	5624.6	5642.9	5595.3	5560.5	5556.8
30°	5875.6	5882.9	5914.1	5936.1	5925.1	5915.9	5912.3	5930.6	5879.3	5817.0	5802.3
32.5°	6179.7	6205.4	6232.9	6280.5	6242.0	6225.6	6221.9	6234.7	6176.1	6106.5	6086.3
35°	6505.9	6524.2	6575.5	6615.8	6581.0	6542.5	6559.0	6599.3	6529.7	6436.2	6432.6
37.5°	6866.8	6883.3	6949.2	6991.4	6965.7	6899.8	6927.3	6974.9	6905.3	6789.8	6766.0
40°	7242.4	7277.2	7359.6	7403.6	7361.5	7273.5	7324.8	7376.1	7313.8	7180.1	7127.0
42.5°	7663.8	7718.7	7837.8	7859.8	7779.2	7660.1	7749.9	7832.3	7788.4	7634.5	7614.3
45°	8156.6	8189.6	8336.2	8383.8	8272.0	8123.6	8235.4	8385.6	8352.6	8174.9	8136.5
47.5°	8708.1	8739.2	8891.3	8962.7	8821.7	8622.0	8823.5	9019.5	8999.4	8808.8	8790.5
50°	9360.3	9367.6	9578.3	9659.0	9517.9	9345.7	9525.2	9768.9	9688.3	9444.6	9440.9
52.5°	10074.8	10084.0	10349.7	10505.4	10426.6	10232.4	10444.9	10593.3	10388.1	10069.3	10045.5
55°	10694.1	10739.9	11102.7	11516.7	11624.8	11483.7	11547.9	11478.2	10972.6	10525.5	10455.9
57.5°	10946.9	11036.7	11588.2	12361.3	13064.9	13273.7	12779.1	12115.8	11205.3	10573.2	10505.4
60°	10329.5	10426.6	11282.2	12749.7	14545.2	15452.1	14061.5	12223.9	10675.8	9787.2	9680.9
62.5°	8272.0	8299.5	9558.2	11835.5	15408.2	17756.9	14602.0	11302.4	9135.0	7927.6	7885.5
64°	5952.6	6234.7	7568.5	10377.1	15030.7	18634.5	14290.6	10010.7	7420.1	6198.1	6000.2
65°	4452.1	4529.0	6101.0	8862.0	14365.7	18568.6	13686.0	8775.9	6144.9	4743.4	4523.5
67.5°	1681.9	1691.0	2251.7	4417.2	10226.9	15976.1	10444.9	4774.5	2588.8	1872.4	1804.6
70°	698.0	710.9	826.3	1485.9	4395.3	10258.1	5036.5	1722.2	947.2	767.7	756.7
72.5°	511.2	518.5	553.3	659.6	1352.1	4212.1	1656.2	731.0	555.1	496.5	491.0
75°	401.2	404.9	430.5	485.5	630.3	1167.1	688.9	502.0	423.2	381.1	377.4
77.5°	306.0	315.1	333.4	370.1	423.2	553.3	456.2	375.6	326.1	291.3	285.8
80°	210.7	221.7	256.5	271.2	284.0	359.1	311.5	284.0	254.7	212.5	199.7
82.5°	130.1	137.4	172.2	185.0	179.5	201.5	199.7	203.4	181.4	131.9	122.8
85°	67.8	71.5	93.4	97.1	89.8	82.4	102.6	119.1	111.8	75.1	73.3
87.5°	14.7	16.5	20.2	18.3	20.2	20.2	25.6	38.5	40.3	25.6	23.8
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)