

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: P457847

Luminaire Tested: **GALN-SA9B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457847
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-SA9B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45023 lumens
Efficiency: N/A
Efficacy: 123.7 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

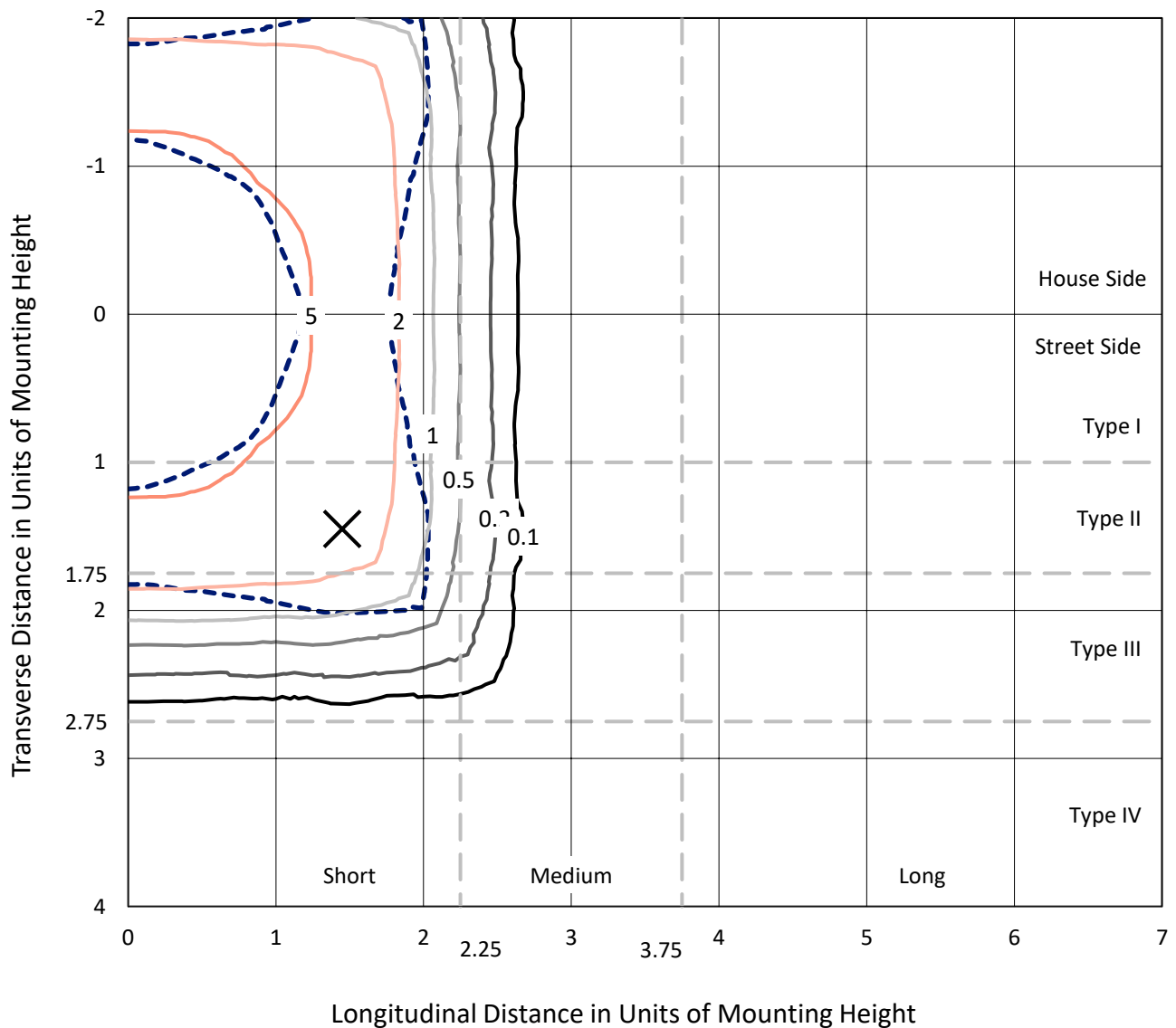
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

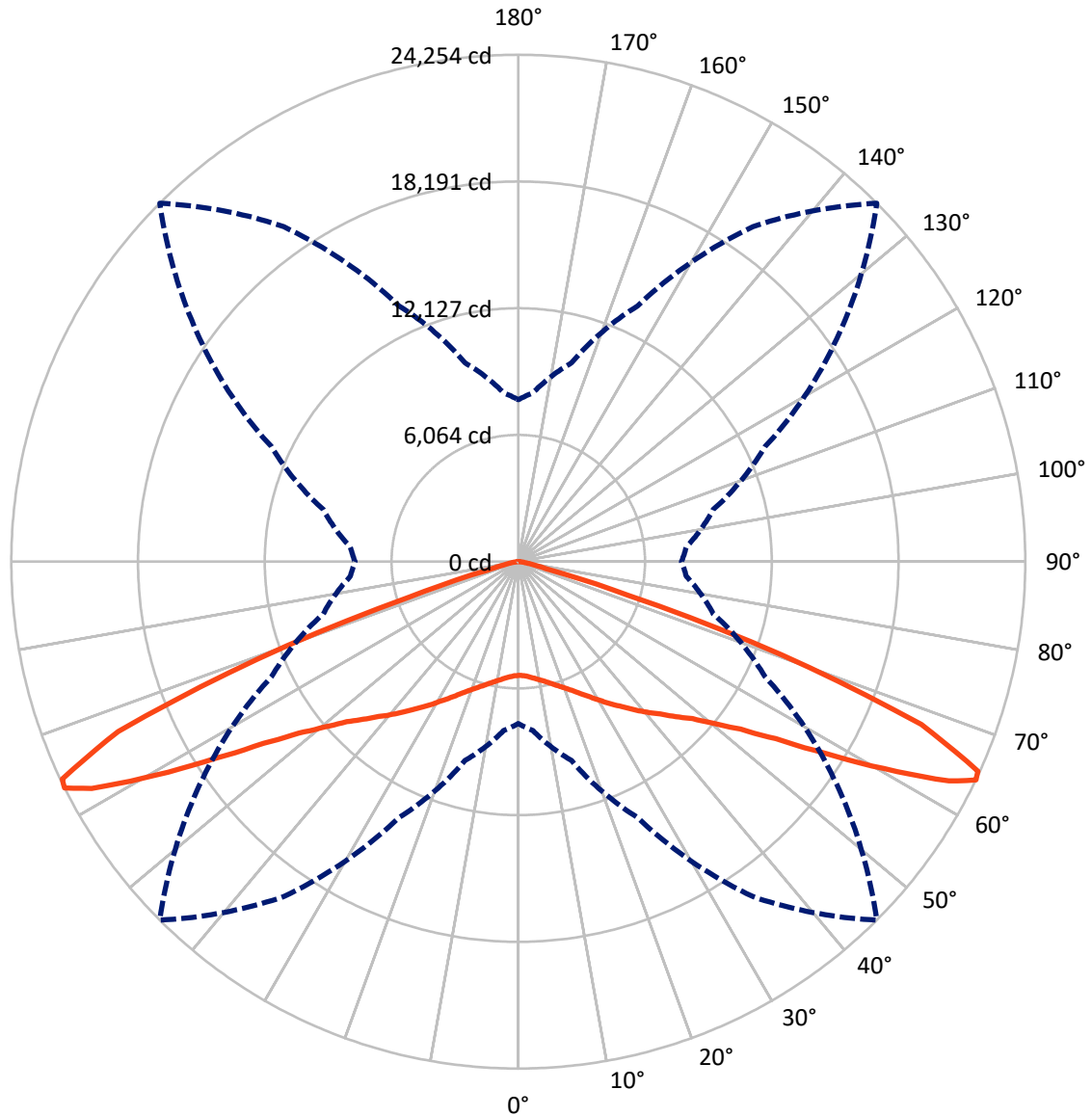
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	22511.5	0.0	22511.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22511.5	0.0	22511.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45023.0	0.0	45023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.6	1.2
10°-20°	1724.5	3.8
20°-30°	3258.8	7.2
30°-40°	5396.9	12.0
40°-50°	8425.5	18.7
50°-60°	13025.6	28.9
60°-70°	11231.8	24.9
70°-80°	1272.9	2.8
80°-90°	152.5	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°	45023.0	100.0
0°-180°	45023.0	100.0

Coefficient of Utilization



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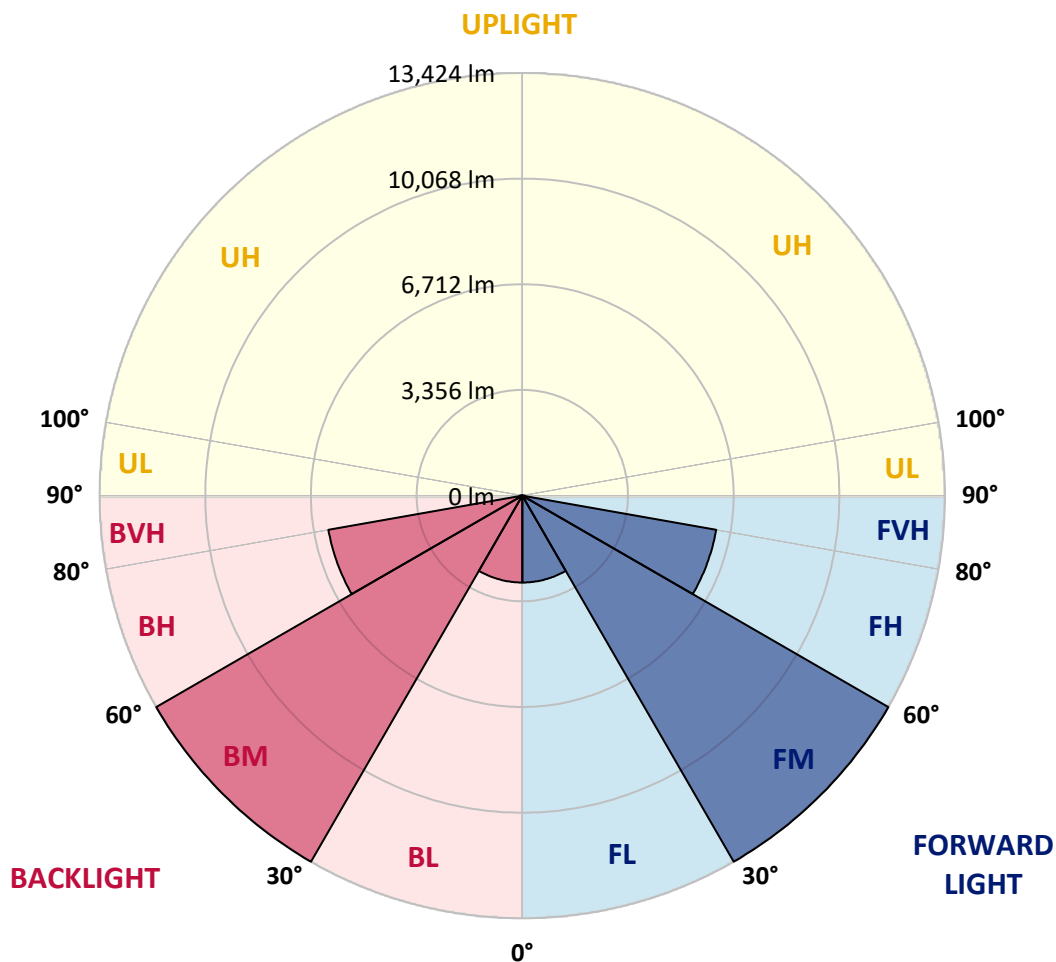
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2758.9	6.1			
FM	(30°-60°)	13424.0	29.8			
FH	(60°-80°)	6252.3	13.9			G3/7500
FVH	(80°-90°)	76.2	0.2			G1/100
BL	(0°-30°)	2758.9	6.1	B4/5000		
BM	(30°-60°)	13424.0	29.8	B5		
BH	(60°-80°)	6252.3	13.9	B5		G3/7500
BVH	(80°-90°)	76.2	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°	5441.8	5441.8	5441.8	5441.8	5441.8	5441.8	5441.8	5441.8	5441.8	5441.8	5441.8
2.5°	5463.2	5475.2	5465.6	5463.2	5460.9	5460.9	5460.9	5463.2	5472.8	5479.9	5475.2
5°	5532.4	5541.9	5537.2	5534.8	5532.4	5534.8	5530.0	5527.6	5534.8	5534.8	5532.4
7.5°	5618.3	5630.2	5625.4	5630.2	5632.6	5634.9	5623.0	5613.5	5611.1	5618.3	5613.5
10°	5735.1	5744.6	5747.0	5749.4	5754.2	5751.8	5737.5	5720.8	5718.4	5716.0	5713.6
12.5°	5866.3	5873.4	5875.8	5885.3	5892.5	5894.9	5878.2	5863.9	5840.0	5844.8	5835.3
15°	6014.1	6028.4	6026.0	6040.3	6059.4	6064.2	6047.5	6023.6	6002.2	5990.3	5983.1
17.5°	6195.3	6204.9	6200.1	6214.4	6238.3	6250.2	6235.9	6204.9	6183.4	6157.2	6142.9
20°	6410.0	6426.6	6431.4	6431.4	6452.9	6464.8	6443.3	6433.8	6400.4	6381.3	6369.4
22.5°	6653.2	6660.3	6674.7	6689.0	6710.4	6705.7	6698.5	6684.2	6653.2	6636.5	6617.4
25°	6927.4	6934.6	6970.4	7001.4	7008.5	7003.7	6994.2	6987.0	6958.4	6920.3	6906.0
27.5°	7247.0	7261.3	7309.0	7337.6	7337.6	7340.0	7320.9	7344.7	7282.7	7237.4	7232.7
30°	7647.6	7657.1	7697.7	7726.3	7712.0	7700.1	7695.3	7719.1	7652.4	7571.3	7552.2
32.5°	8043.4	8076.8	8112.6	8174.6	8124.5	8103.1	8098.3	8115.0	8038.7	7948.1	7921.8
35°	8467.9	8491.8	8558.5	8611.0	8565.7	8515.6	8537.1	8589.5	8498.9	8377.3	8372.5
37.5°	8937.7	8959.2	9045.0	9099.9	9066.5	8980.6	9016.4	9078.4	8987.8	8837.5	8806.5
40°	9426.5	9471.9	9579.2	9636.4	9581.6	9467.1	9533.9	9600.6	9519.5	9345.5	9276.3
42.5°	9975.0	10046.6	10201.6	10230.2	10125.3	9970.2	10087.1	10194.4	10137.2	9936.9	9910.6
45°	10616.5	10659.4	10850.2	10912.2	10766.7	10573.6	10719.0	10914.6	10871.6	10640.3	10590.3
47.5°	11334.3	11374.8	11572.7	11665.7	11482.1	11222.2	11484.5	11739.7	11713.4	11465.4	11441.6
50°	12183.2	12192.7	12467.0	12571.9	12388.3	12164.1	12397.8	12715.0	12610.1	12292.9	12288.1
52.5°	13113.2	13125.2	13470.9	13673.6	13571.1	13318.3	13594.9	13788.1	13521.0	13106.1	13075.1
55°	13919.2	13978.9	14451.0	14990.0	15130.6	14947.0	15030.5	14939.9	14281.7	13699.9	13609.2
57.5°	14248.3	14365.2	15083.0	16089.3	17005.0	17276.8	16633.0	15769.7	14584.6	13761.9	13673.6
60°	13444.7	13571.1	14684.7	16594.8	18931.8	20112.2	18302.2	15910.4	13895.4	12738.8	12600.5
62.5°	10766.7	10802.5	12440.8	15404.9	20055.0	23112.1	19005.7	14710.9	11889.9	10318.4	10263.6
64°	7747.7	8115.0	9851.0	13506.7	19563.7	24254.3	18600.3	13029.8	9657.9	8067.3	7809.8
65°	5794.7	5894.9	7940.9	11534.6	18698.1	24168.5	17813.4	11422.5	7998.1	6173.9	5887.7
67.5°	2189.1	2201.0	2930.7	5749.4	13311.2	20794.2	13594.9	6214.4	3369.5	2437.1	2348.9
70°	908.6	925.2	1075.5	1934.0	5720.8	13351.7	6555.4	2241.6	1232.9	999.2	984.9
72.5°	665.3	674.9	720.2	858.5	1759.9	5482.3	2155.7	951.5	722.6	646.2	639.1
75°	522.2	527.0	560.4	631.9	820.3	1519.0	896.6	653.4	550.9	496.0	491.2
77.5°	398.2	410.2	434.0	481.7	550.9	720.2	593.8	488.9	424.5	379.2	372.0
80°	274.2	288.5	333.9	352.9	369.6	467.4	405.4	369.6	331.5	276.6	259.9
82.5°	169.3	178.8	224.2	240.9	233.7	262.3	259.9	264.7	236.1	171.7	159.8
85°	88.2	93.0	121.6	126.4	116.8	107.3	133.5	155.0	145.5	97.8	95.4
87.5°	19.1	21.5	26.2	23.8	26.2	26.2	33.4	50.1	52.5	33.4	31.0
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)