

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: P457413

Luminaire Tested: **GALN-SA8D-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59542 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

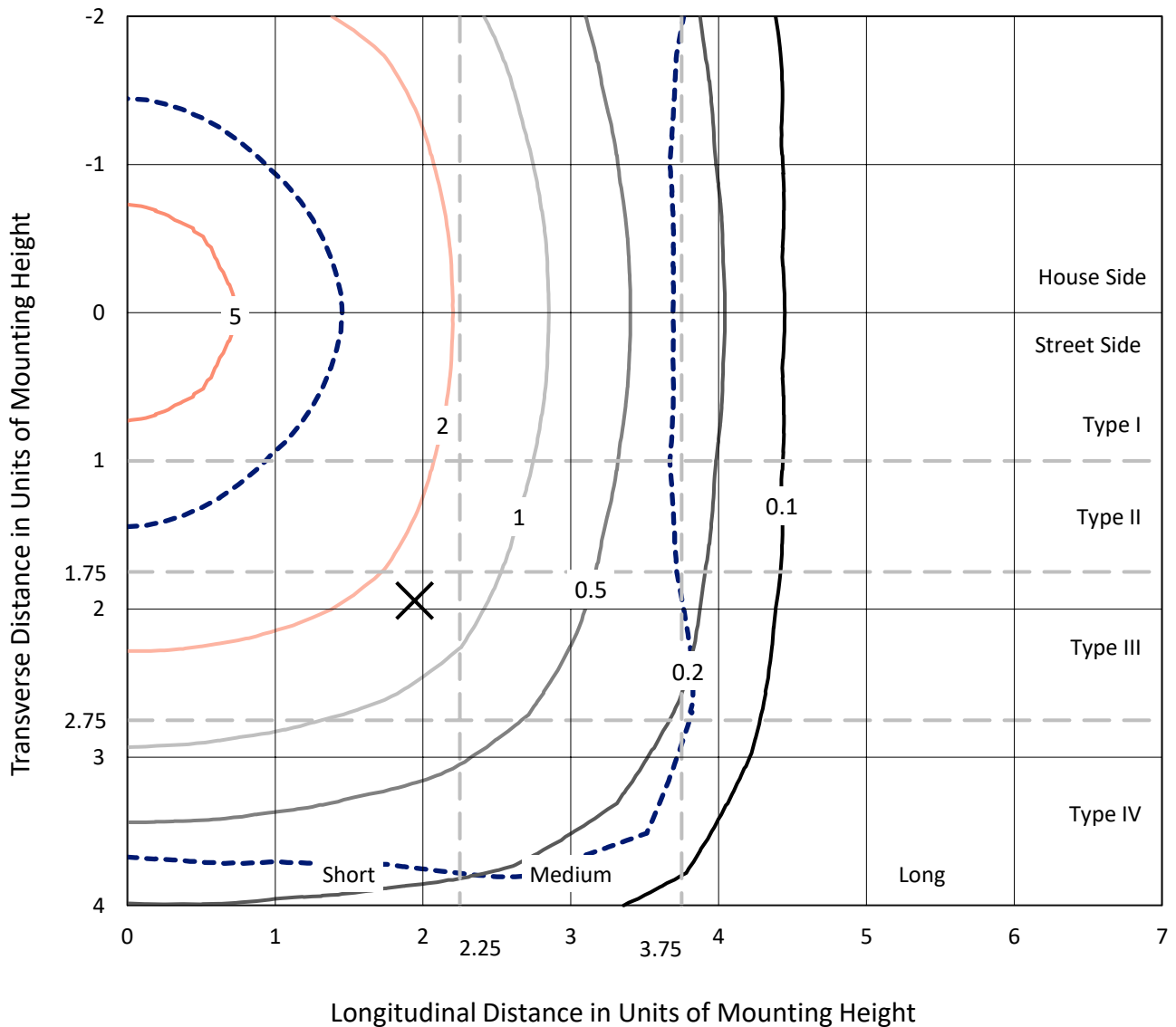
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

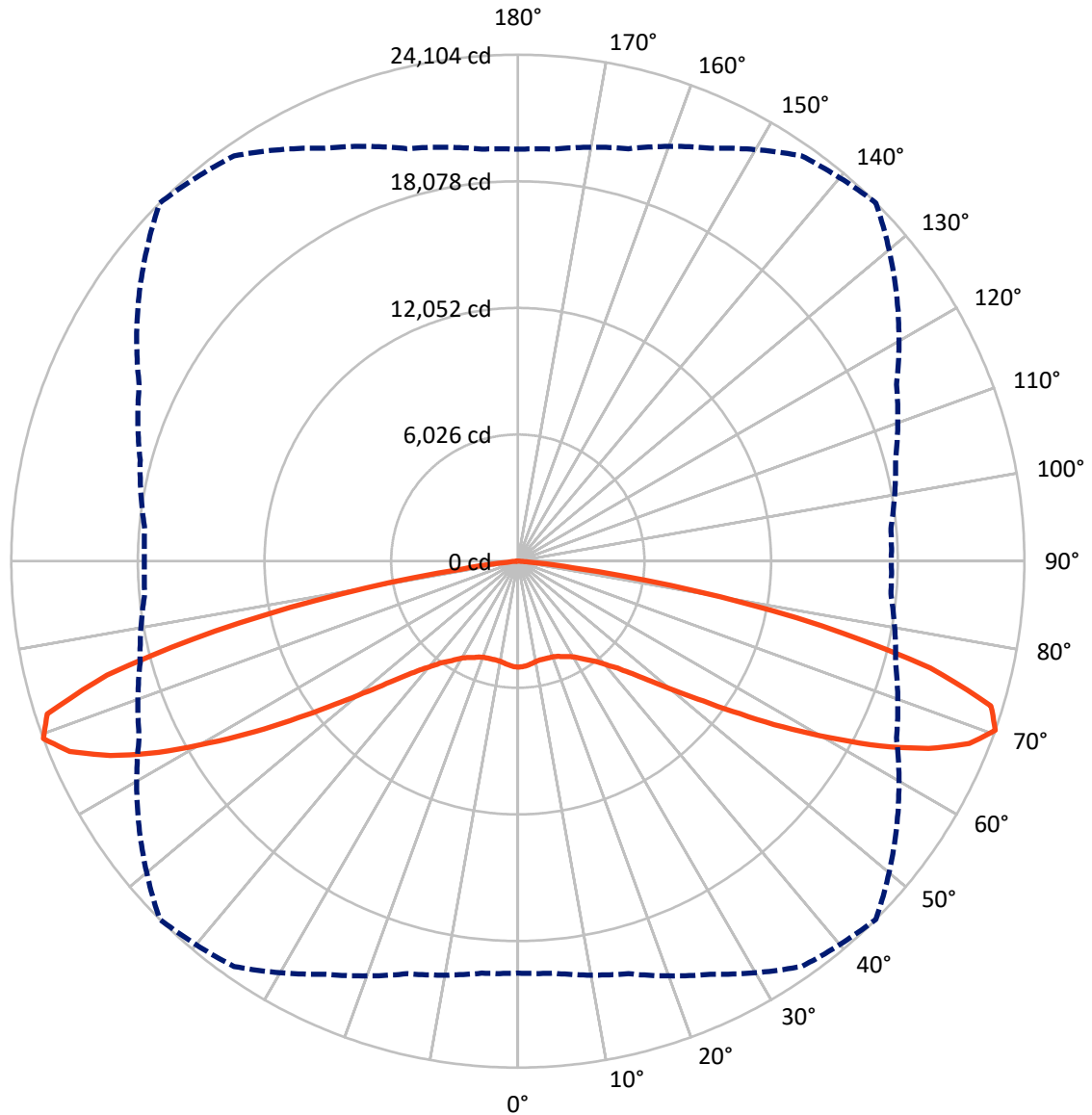
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29771.0	0.0	29771.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29771.0	0.0	29771.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59542.0	0.0	59542.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.4	0.8
10°-20°	1380.1	2.3
20°-30°	2351.4	3.9
30°-40°	3644.6	6.1
40°-50°	6134.5	10.3
50°-60°	11161.4	18.7
60°-70°	18895.9	31.7
70°-80°	14626.2	24.6
80°-90°	876.4	1.5
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°	59542.0	100.0
0°-180°	59542.0	100.0



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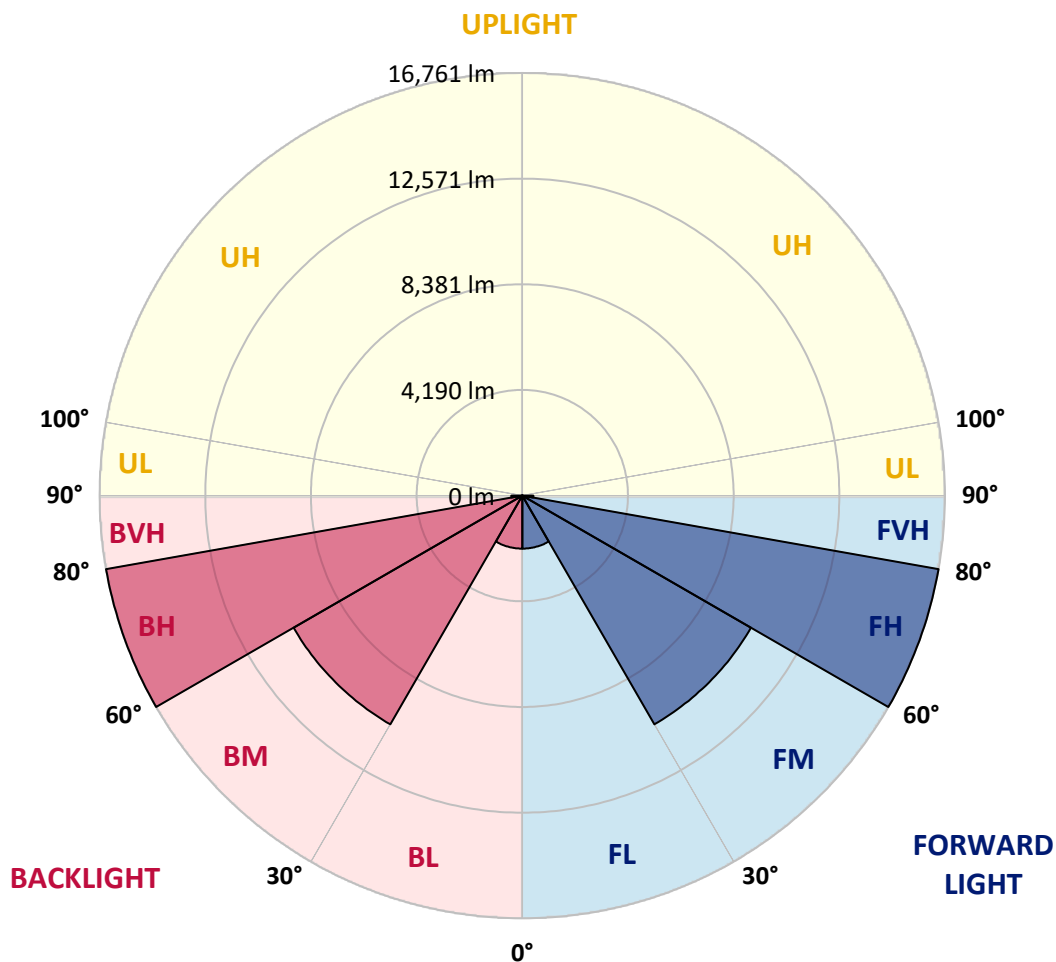
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.5	3.5			
FM (30°-60°)	10470.2	17.6			
FH (60°-80°)	16761.1	28.1			G5
FVH (80°-90°)	438.2	0.7			G3/500
BL (0°-30°)	2101.5	3.5	B3/2500		
BM (30°-60°)	10470.2	17.6	B5		
BH (60°-80°)	16761.1	28.1	B5		G5
BVH (80°-90°)	438.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5041.0	5041.0	5041.0	5041.0	5041.0	5041.0	5041.0	5041.0	5041.0	5041.0	5041.0
2.5°	5028.4	5031.5	5031.5	5025.2	5022.1	5022.1	5018.9	5018.9	5028.4	5031.5	5034.7
5°	4984.4	4984.4	4984.4	4981.2	4974.9	4974.9	4968.6	4968.6	4971.8	4981.2	4974.9
7.5°	4924.6	4930.9	4930.9	4918.3	4908.9	4908.9	4905.7	4908.9	4912.0	4921.5	4918.3
10°	4905.7	4908.9	4893.2	4871.1	4855.4	4846.0	4849.1	4855.4	4871.1	4877.4	4880.6
12.5°	4918.3	4918.3	4890.0	4858.6	4830.3	4817.7	4814.5	4836.6	4864.9	4883.7	4890.0
15°	4934.0	4927.8	4893.2	4852.3	4824.0	4820.8	4817.7	4833.4	4874.3	4912.0	4915.2
17.5°	4943.5	4940.3	4896.3	4846.0	4830.3	4830.3	4827.1	4839.7	4883.7	4930.9	4934.0
20°	4974.9	4965.5	4915.2	4861.7	4849.1	4855.4	4846.0	4861.7	4908.9	4965.5	4978.1
22.5°	5037.8	5028.4	4978.1	4924.6	4918.3	4918.3	4915.2	4930.9	4981.2	5041.0	5050.4
25°	5113.3	5103.9	5056.7	5018.9	5025.2	5037.8	5031.5	5034.7	5075.6	5125.9	5141.6
27.5°	5213.9	5198.2	5157.3	5125.9	5144.7	5144.7	5144.7	5141.6	5166.7	5213.9	5229.6
30°	5336.6	5330.3	5286.2	5283.1	5298.8	5283.1	5283.1	5286.2	5289.4	5333.4	5349.1
32.5°	5496.9	5484.4	5462.3	5456.1	5500.1	5512.7	5468.6	5427.8	5449.8	5493.8	5503.2
35°	5761.1	5742.2	5710.8	5676.2	5710.8	5770.5	5676.2	5644.7	5701.3	5761.1	5767.4
37.5°	6119.6	6110.2	6059.8	5996.9	5993.8	6056.7	5959.2	5956.1	6063.0	6135.3	6144.8
40°	6569.3	6578.7	6515.8	6456.1	6424.6	6474.9	6399.5	6427.8	6531.5	6613.3	6607.0
42.5°	7201.4	7166.8	7069.3	7012.7	6978.1	6959.2	6940.4	6984.4	7100.7	7188.8	7258.0
45°	7940.4	7927.8	7805.2	7736.0	7660.5	7632.2	7625.9	7704.5	7846.0	7953.0	7962.4
47.5°	8776.9	8748.6	8669.9	8597.6	8569.3	8534.7	8503.3	8563.0	8704.5	8780.0	8802.0
50°	9638.5	9644.8	9644.8	9632.2	9660.5	9666.8	9581.9	9603.9	9682.5	9676.3	9670.0
52.5°	10622.8	10657.4	10820.9	10836.6	10971.9	11063.1	10909.0	10817.8	10789.5	10619.7	10632.2
55°	11780.1	11811.5	12056.8	12302.1	12666.9	12821.0	12497.1	12214.0	12012.8	11754.9	11767.5
57.5°	13223.5	13239.2	13471.9	13943.6	14522.2	14883.9	14314.7	13754.9	13346.1	13100.8	13003.3
60°	14777.0	14792.7	15132.3	15707.8	16607.2	17047.4	16343.0	15427.9	14912.2	14538.0	14563.1
62.5°	16641.8	16704.7	17009.7	17802.2	18893.4	19387.1	18453.1	17229.8	16531.7	16066.3	16085.2
65°	18638.7	18745.6	19078.9	19950.0	20956.3	21487.8	20343.1	18931.1	18063.2	17494.0	17553.7
67.5°	19934.3	20028.6	20509.8	21472.0	22726.8	23167.0	21689.0	20044.3	18959.4	18280.2	18154.4
70°	19604.1	19682.7	20324.2	21689.0	23547.5	24104.2	22009.8	19880.8	18604.1	17821.0	17770.7
72.5°	17305.3	17141.8	18078.9	20038.0	22610.4	23544.4	21000.3	18157.5	16550.6	15745.5	15651.2
75°	11468.7	11824.1	13207.8	15516.0	19129.2	20286.5	17924.8	14578.8	12556.8	11887.0	11783.2
77.5°	3833.4	4107.0	5336.6	8795.7	13041.1	14780.1	13060.0	9534.7	6745.4	5434.0	5459.2
80°	1015.7	1003.2	1298.8	2418.3	5635.3	8559.9	6559.9	3229.6	1767.3	1279.9	1213.9
82.5°	364.8	408.8	525.2	669.8	1493.7	2660.4	1877.4	905.7	663.5	490.6	474.9
85°	160.4	157.2	226.4	267.3	374.2	496.9	440.3	383.7	336.5	223.3	207.6
87.5°	34.6	34.6	53.5	40.9	66.0	66.0	81.8	97.5	100.6	66.0	53.5
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)