

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: P458079

Luminaire Tested: **GALN-SA9C-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458079
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-SA9C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55627 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

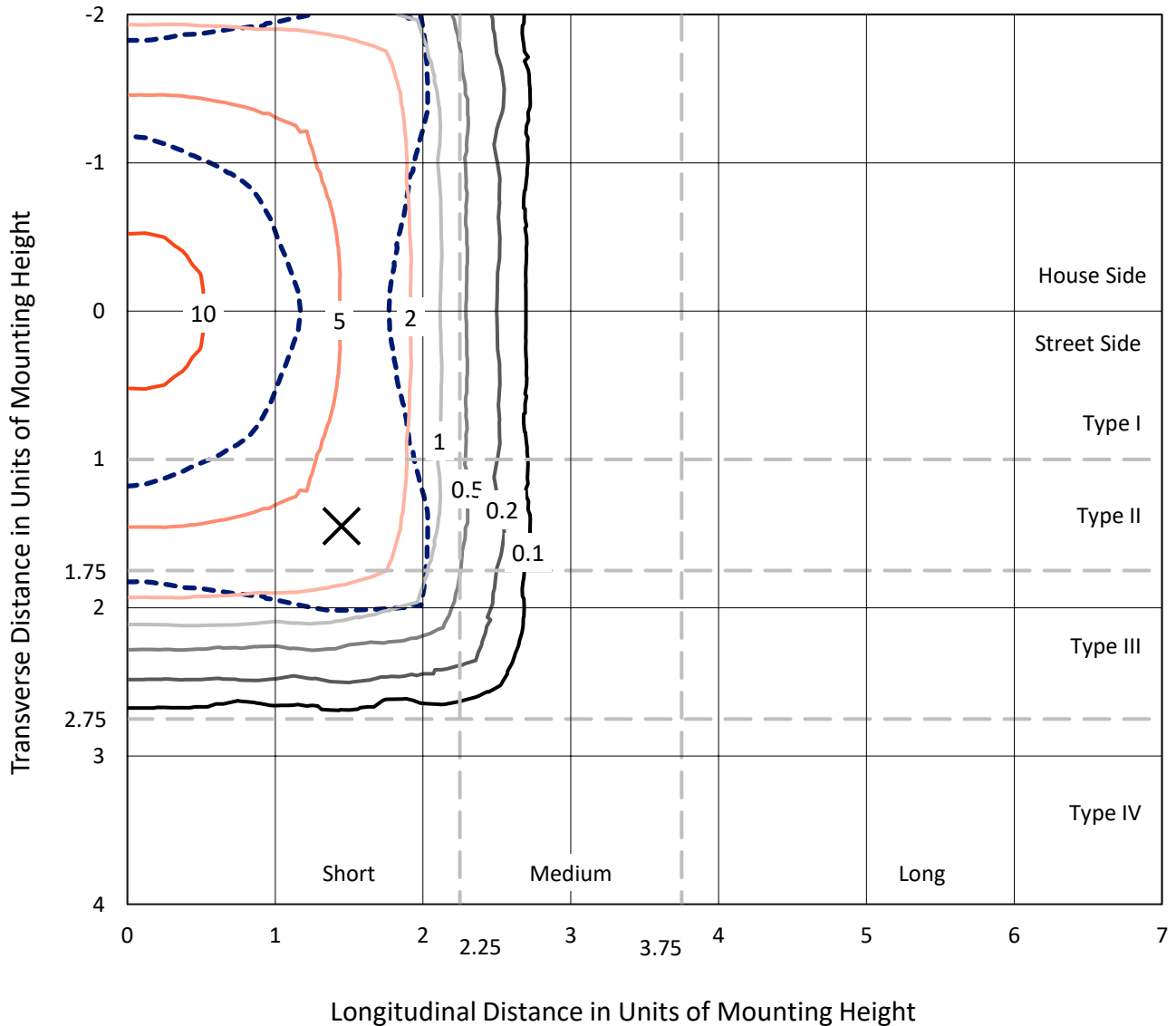
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

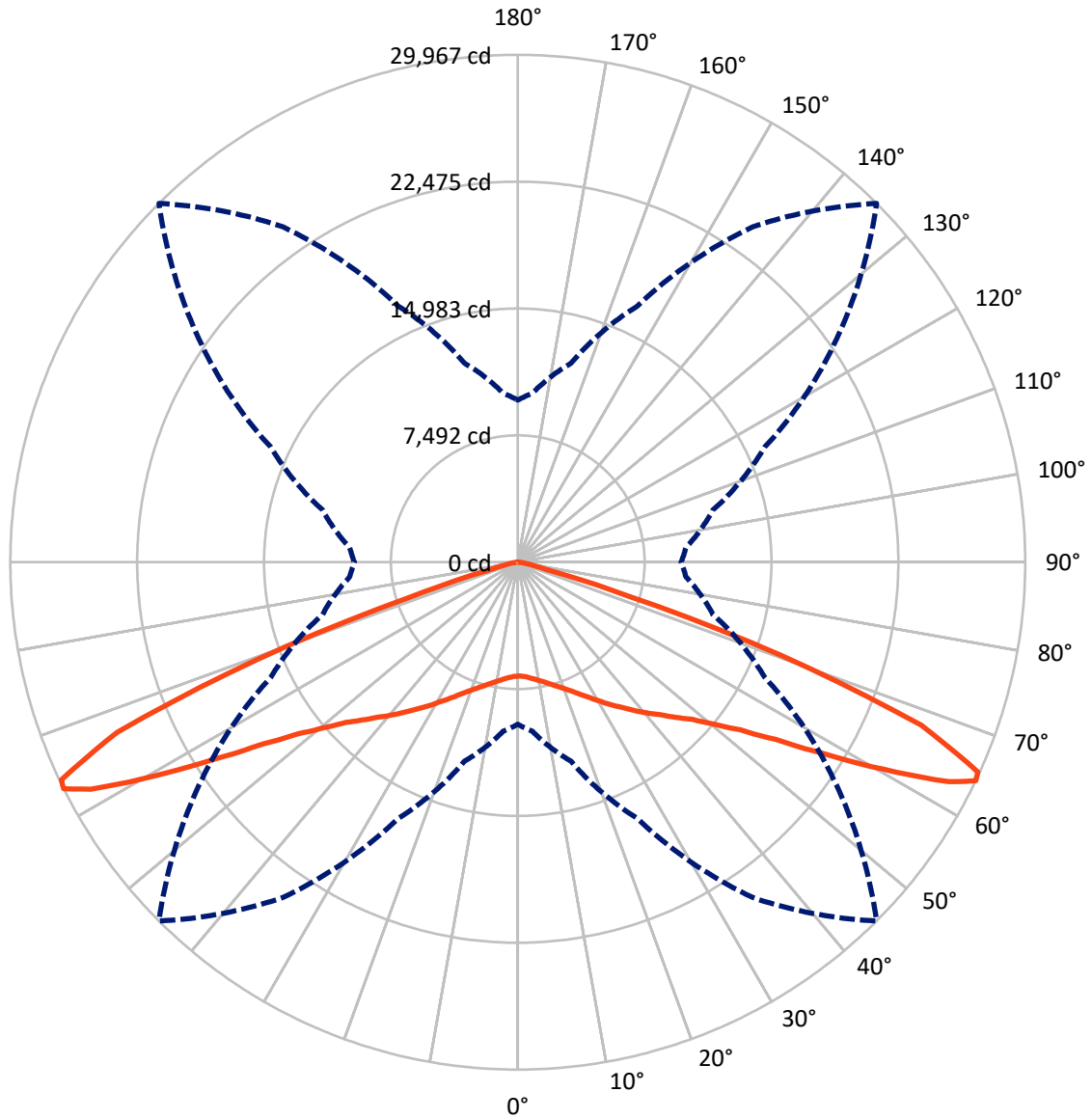
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	27813.5	0.0	27813.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27813.5	0.0	27813.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55627.0	0.0	55627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.5	1.2
10°-20°	2130.6	3.8
20°-30°	4026.3	7.2
30°-40°	6668.0	12.0
40°-50°	10409.9	18.7
50°-60°	16093.4	28.9
60°-70°	13877.2	24.9
70°-80°	1572.6	2.8
80°-90°	188.4	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°	55627.0	100.0
0°-180°	55627.0	100.0

Coefficient of Utilization



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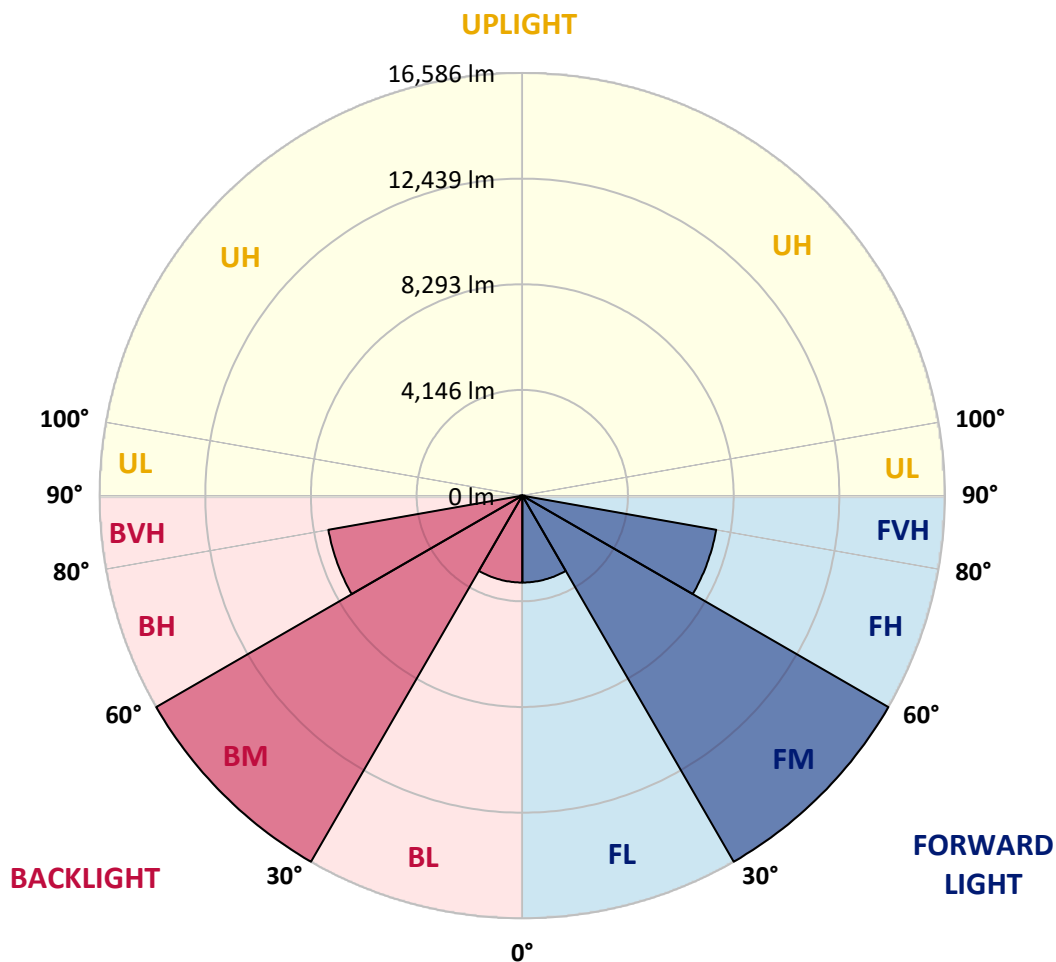
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3408.7	6.1			
FM	(30°-60°)	16585.7	29.8			
FH	(60°-80°)	7724.9	13.9			G4/12000
FVH	(80°-90°)	94.2	0.2			G1/100
BL	(0°-30°)	3408.7	6.1	B4/5000		
BM	(30°-60°)	16585.7	29.8	B5		
BH	(60°-80°)	7724.9	13.9	B5		G4/12000
BVH	(80°-90°)	94.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5
2.5°	6750.0	6764.7	6752.9	6750.0	6747.0	6747.0	6747.0	6750.0	6761.8	6770.6	6764.7
5°	6835.4	6847.2	6841.3	6838.4	6835.4	6835.4	6832.5	6829.5	6838.4	6838.4	6835.4
7.5°	6941.5	6956.2	6950.3	6956.2	6959.2	6962.1	6947.4	6935.6	6932.6	6941.5	6935.6
10°	7085.9	7097.6	7100.6	7103.5	7109.4	7106.5	7088.8	7068.2	7065.2	7062.3	7059.3
12.5°	7247.9	7256.7	7259.7	7271.5	7280.3	7283.3	7262.6	7245.0	7215.5	7221.4	7209.6
15°	7430.6	7448.2	7445.3	7463.0	7486.6	7492.4	7471.8	7442.4	7415.8	7401.1	7392.3
17.5°	7654.5	7666.3	7660.4	7678.1	7707.5	7722.3	7704.6	7666.3	7639.8	7607.3	7589.7
20°	7919.7	7940.3	7946.2	7946.2	7972.7	7987.4	7960.9	7949.1	7907.9	7884.3	7869.6
22.5°	8220.2	8229.0	8246.7	8264.4	8290.9	8285.0	8276.2	8258.5	8220.2	8199.6	8176.0
25°	8559.0	8567.8	8612.0	8650.3	8659.2	8653.3	8641.5	8632.7	8597.3	8550.2	8532.5
27.5°	8953.8	8971.5	9030.4	9065.8	9065.8	9068.7	9045.1	9074.6	8998.0	8942.0	8936.1
30°	9448.8	9460.6	9510.7	9546.0	9528.3	9513.6	9507.7	9537.2	9454.7	9354.5	9330.9
32.5°	9937.9	9979.1	10023.3	10099.9	10038.0	10011.5	10005.6	10026.3	9932.0	9820.0	9787.6
35°	10462.3	10491.8	10574.3	10639.1	10583.1	10521.2	10547.8	10612.6	10500.6	10350.4	10344.5
37.5°	11042.7	11069.3	11175.3	11243.1	11201.8	11095.8	11140.0	11216.6	11104.6	10919.0	10880.7
40°	11646.7	11702.7	11835.3	11906.0	11838.2	11696.8	11779.3	11861.8	11761.6	11546.6	11461.1
42.5°	12324.4	12412.8	12604.3	12639.6	12510.0	12318.5	12462.9	12595.4	12524.7	12277.2	12244.8
45°	13116.9	13170.0	13405.7	13482.3	13302.5	13063.9	13243.6	13485.2	13432.2	13146.4	13084.5
47.5°	14003.8	14053.9	14298.4	14413.3	14186.4	13865.3	14189.4	14504.6	14472.2	14165.8	14136.4
50°	15052.7	15064.4	15403.3	15532.9	15306.0	15029.1	15317.8	15709.7	15580.0	15188.2	15182.3
52.5°	16201.7	16216.4	16643.7	16894.1	16767.4	16455.1	16796.9	17035.5	16705.5	16192.9	16154.6
55°	17197.6	17271.2	17854.6	18520.4	18694.3	18467.4	18570.5	18458.6	17645.4	16926.5	16814.5
57.5°	17604.1	17748.5	18635.4	19878.7	21010.1	21345.9	20550.4	19483.9	18019.6	17003.1	16894.1
60°	16611.2	16767.4	18143.3	20503.3	23390.7	24849.1	22612.9	19657.7	17168.1	15739.1	15568.3
62.5°	13302.5	13346.7	15370.9	19033.1	24778.4	28555.5	23482.0	18175.7	14690.3	12748.6	12680.9
64°	9572.5	10026.3	12171.2	16687.8	24171.5	29966.8	22981.1	16098.6	11932.5	9967.3	9649.1
65°	7159.5	7283.3	9811.2	14251.3	23101.9	29860.8	22008.9	14112.8	9881.9	7628.0	7274.4
67.5°	2704.7	2719.4	3621.0	7103.5	16446.3	25691.7	16796.9	7678.1	4163.1	3011.1	2902.1
70°	1122.5	1143.2	1328.8	2389.4	7068.2	16496.3	8099.4	2769.5	1523.2	1234.5	1216.8
72.5°	822.0	833.8	889.8	1060.7	2174.4	6773.5	2663.5	1175.6	892.7	798.4	789.6
75°	645.2	651.1	692.4	780.8	1013.5	1876.8	1107.8	807.3	680.6	612.8	606.9
77.5°	492.0	506.8	536.2	595.2	680.6	889.8	733.6	604.0	524.4	468.5	459.6
80°	338.8	356.5	412.5	436.1	456.7	577.5	500.9	456.7	409.5	341.8	321.1
82.5°	209.2	221.0	277.0	297.6	288.7	324.1	321.1	327.0	291.7	212.1	197.4
85°	109.0	114.9	150.3	156.2	144.4	132.6	165.0	191.5	179.7	120.8	117.9
87.5°	23.6	26.5	32.4	29.5	32.4	32.4	41.2	61.9	64.8	41.2	38.3
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)