

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: P534387

Luminaire Tested: **GALN-SA9D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26892 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

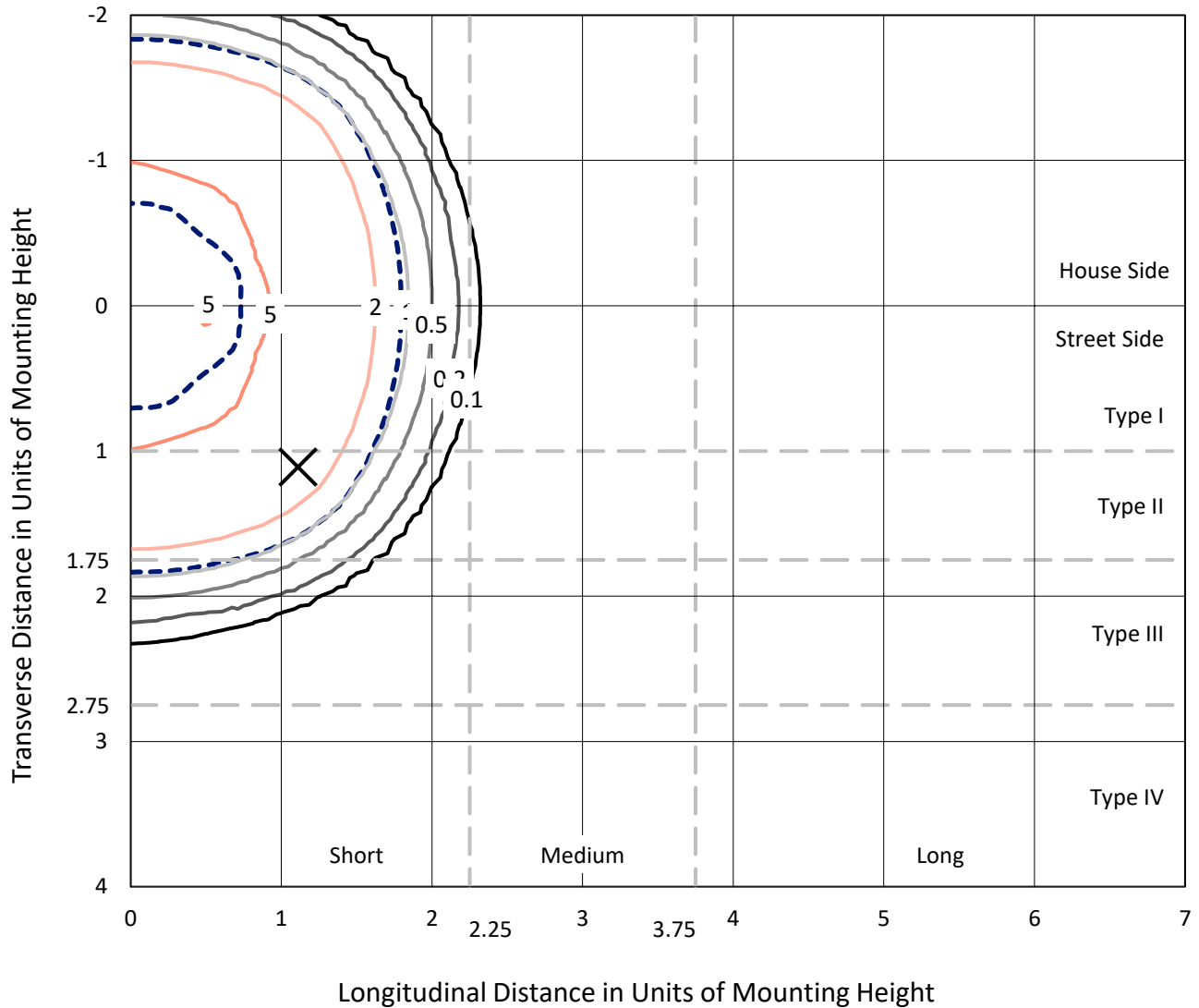
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

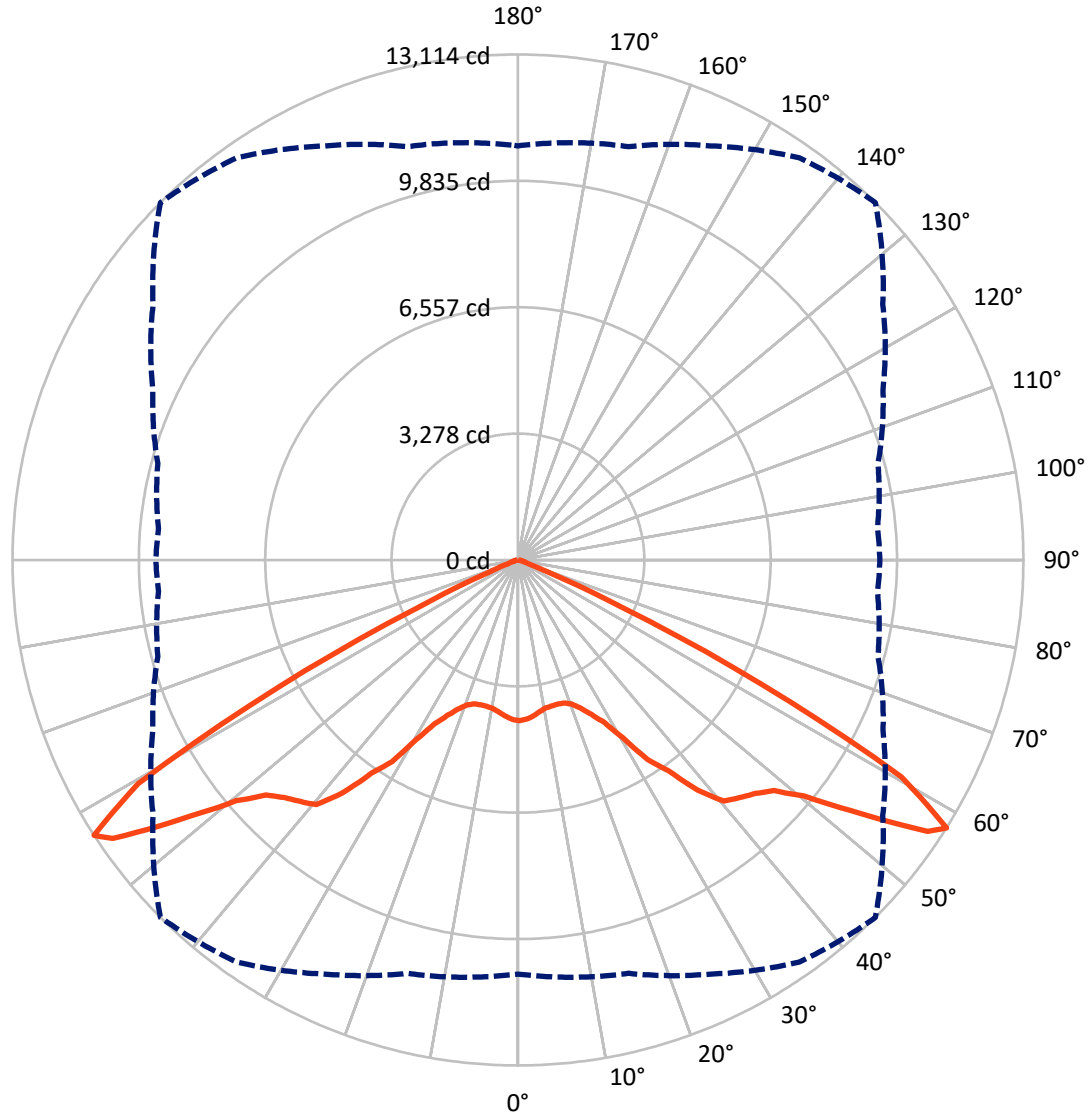
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13446.0	0.0	13446.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13446.0	0.0	13446.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26892.0	0.0	26892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	1.4
10°-20°	1108.0	4.1
20°-30°	2045.1	7.6
30°-40°	4022.0	15.0
40°-50°	6550.8	24.4
50°-60°	9342.2	34.7
60°-70°	3234.5	12.0
70°-80°	173.5	0.6
80°-90°	32.6	0.1
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°	26892.0	100.0
0°-180°	26892.0	100.0

Coefficient of Utilization



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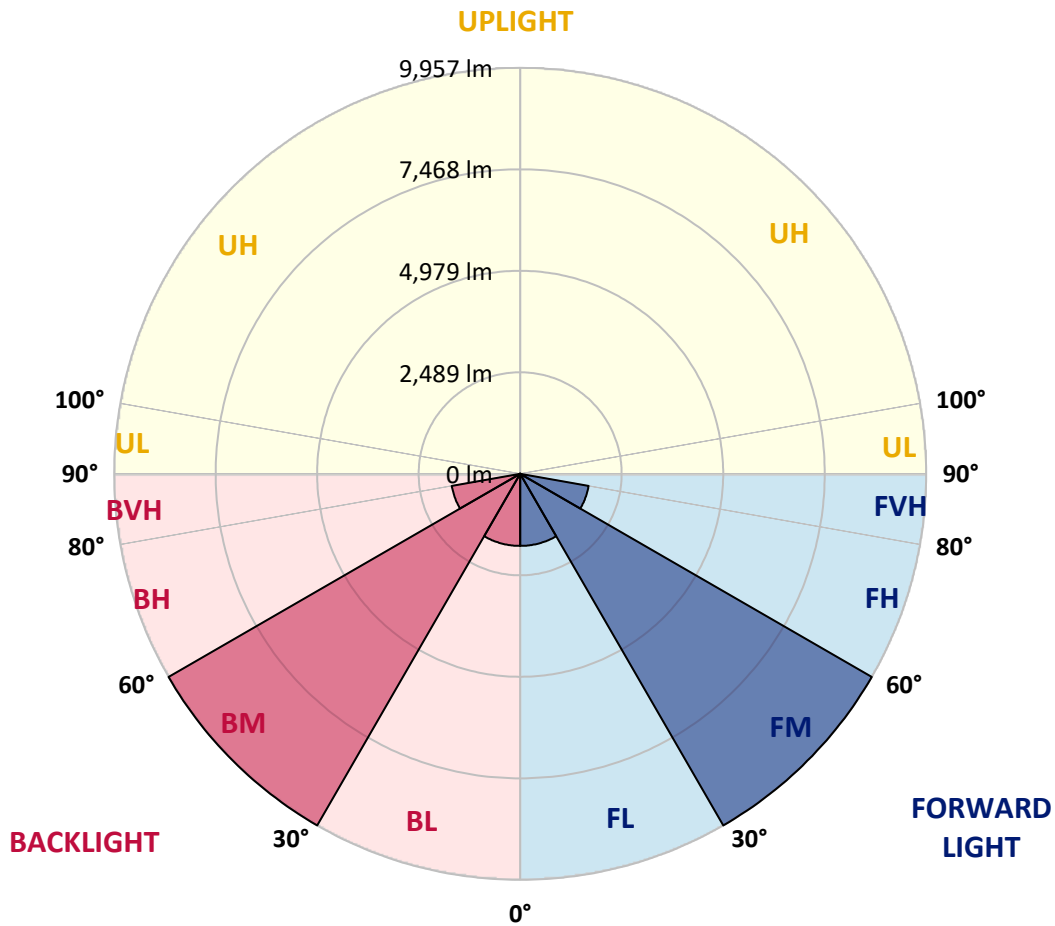
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1768.2	6.6			
FM (30°-60°)	9957.5	37.0			
FH (60°-80°)	1704.0	6.3			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1768.2	6.6	B3/2500		
BM (30°-60°)	9957.5	37.0	B5		
BH (60°-80°)	1704.0	6.3	B3/2500		G1/1800
BVH (80°-90°)	16.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2
2.5°	4160.0	4182.4	4154.4	4143.2	4137.6	4137.6	4120.8	4120.8	4115.2	4120.8	4098.3
5°	4092.7	4115.2	4115.2	4109.6	4075.9	4070.3	4053.5	4042.3	4047.9	4025.5	4042.3
7.5°	4025.5	4042.3	4019.9	4014.2	4003.0	3980.6	3975.0	3924.5	3930.2	3930.2	3941.4
10°	4014.2	4008.6	3975.0	3947.0	3913.3	3907.7	3890.9	3879.7	3879.7	3874.1	3890.9
12.5°	4014.2	3986.2	3980.6	3918.9	3862.9	3885.3	3840.4	3812.4	3851.7	3862.9	3885.3
15°	4008.6	4036.7	3941.4	3913.3	3874.1	3879.7	3840.4	3812.4	3834.8	3846.1	3862.9
17.5°	4042.3	4025.5	3997.4	3941.4	3924.5	3902.1	3851.7	3829.2	3829.2	3857.3	3862.9
20°	4132.0	4087.1	4031.1	4003.0	4019.9	3991.8	3930.2	3846.1	3868.5	3890.9	3907.7
22.5°	4216.1	4182.4	4143.2	4126.4	4221.7	4176.8	4070.3	3975.0	3941.4	3980.6	4008.6
25°	4378.7	4378.7	4305.8	4328.2	4434.7	4440.3	4317.0	4148.8	4126.4	4143.2	4154.4
27.5°	4709.5	4726.3	4664.6	4687.0	4731.9	4771.1	4664.6	4524.4	4474.0	4468.4	4485.2
30°	5068.3	5101.9	5096.3	5191.6	5320.6	5343.0	5186.0	4956.1	4804.8	4776.7	4799.2
32.5°	5539.2	5556.0	5544.8	5657.0	6004.6	6167.1	5757.9	5432.7	5230.9	5281.3	5230.9
35°	6425.0	6408.2	6284.9	6307.3	6593.2	6711.0	6318.5	6111.1	6015.8	6116.7	6094.3
37.5°	7187.5	7125.9	7024.9	7170.7	7467.8	7574.4	7165.1	6800.7	6626.9	6795.1	6868.0
40°	7832.3	7675.3	7535.1	7680.9	8079.0	8224.7	7624.8	7327.7	7260.4	7383.8	7540.7
42.5°	8376.1	8275.2	8090.2	8101.4	8364.9	8432.2	7950.0	7776.2	7708.9	7905.2	7983.6
45°	8762.9	8667.6	8493.8	8482.6	8684.5	8639.6	8207.9	8090.2	8129.4	8258.4	8297.6
47.5°	8959.2	9009.6	8908.7	8936.7	9043.3	8936.7	8594.8	8594.8	8505.0	8583.5	8544.3
50°	9525.4	9368.4	9497.4	9497.4	9609.5	9620.7	9278.7	9155.4	8914.3	8779.8	8779.8
52.5°	10187.0	10198.2	10248.7	10433.7	10624.3	10786.9	10299.1	9772.1	9368.4	9194.6	9172.2
55°	10730.8	10843.0	11044.8	11392.4	11941.8	12166.1	11325.1	10383.2	9889.9	9620.7	9564.7
56°	11028.0	10921.4	11269.1	11745.6	12463.2	12754.8	11493.3	10506.6	9962.7	9660.0	9654.4
57.5°	10742.0	10859.8	11100.9	11852.1	12732.3	13113.6	11555.0	10450.5	9671.2	9362.8	9390.9
60°	8482.6	8594.8	8919.9	9760.9	11140.1	11437.2	9777.7	8617.2	7922.0	7479.1	7484.7
62.5°	4799.2	4883.3	5135.5	5914.9	6772.6	7058.6	6094.3	5320.6	4838.4	4591.7	4513.2
65°	1766.0	1732.4	1771.7	2169.7	2696.7	2937.8	2534.1	2141.7	1889.4	1799.7	1766.0
67.5°	661.6	611.1	571.9	611.1	768.1	812.9	745.7	622.3	583.1	599.9	611.1
70°	409.3	386.8	308.4	291.5	285.9	280.3	297.1	314.0	358.8	420.5	431.7
72.5°	285.9	269.1	218.7	207.4	196.2	190.6	218.7	241.1	280.3	325.2	330.8
75°	112.1	117.7	112.1	123.3	128.9	134.6	157.0	173.8	190.6	190.6	185.0
77.5°	22.4	22.4	33.6	44.9	56.1	72.9	106.5	123.3	128.9	123.3	106.5
80°	0.0	0.0	11.2	22.4	44.9	61.7	95.3	106.5	117.7	106.5	84.1
82.5°	0.0	0.0	11.2	28.0	44.9	56.1	89.7	112.1	128.9	117.7	89.7
85°	0.0	0.0	11.2	22.4	33.6	39.2	39.2	28.0	28.0	16.8	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)