

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: P533915

Luminaire Tested: **GALN-SA9B-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22758 lumens
Efficiency: N/A
Efficacy: 62.5 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

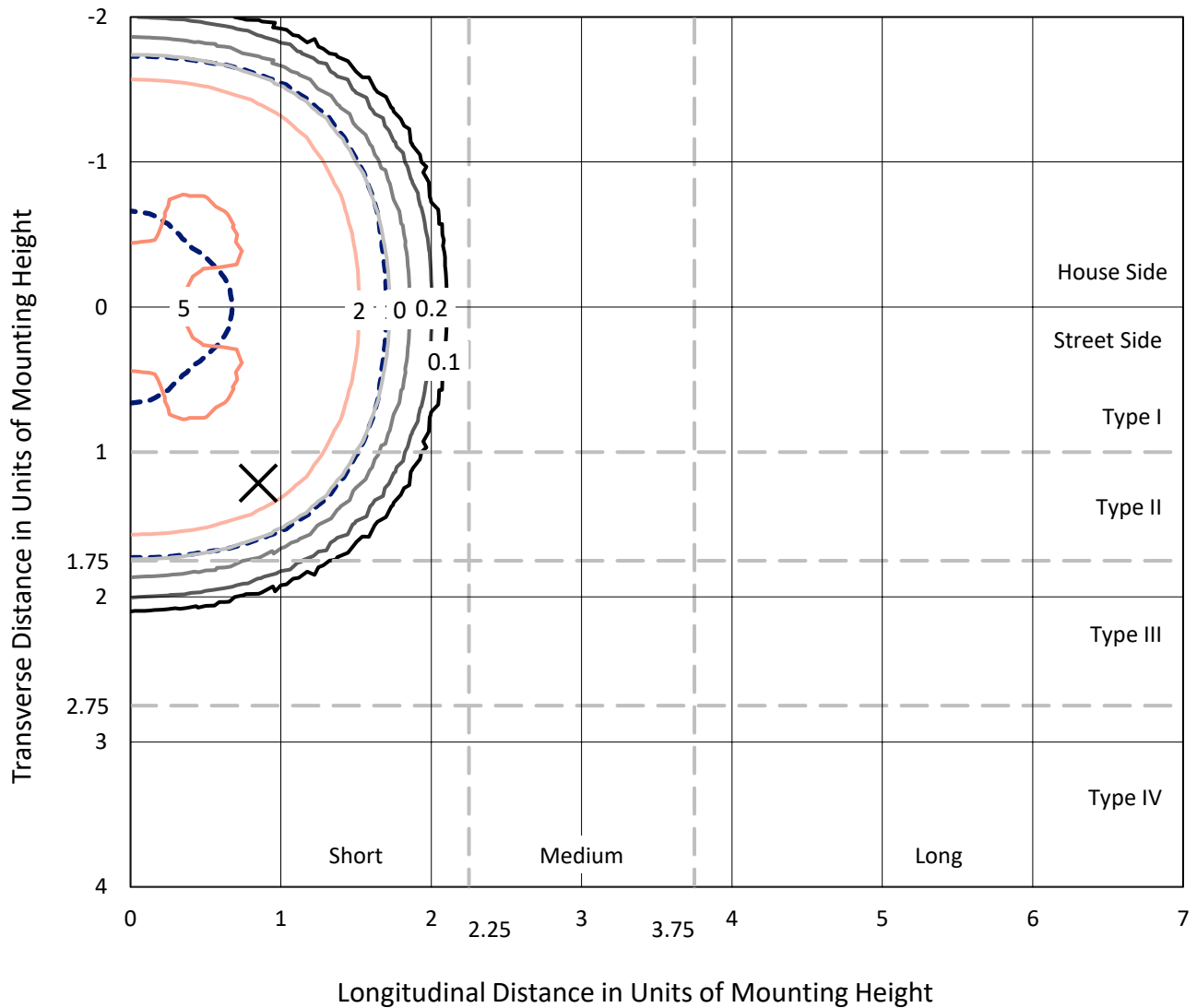
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

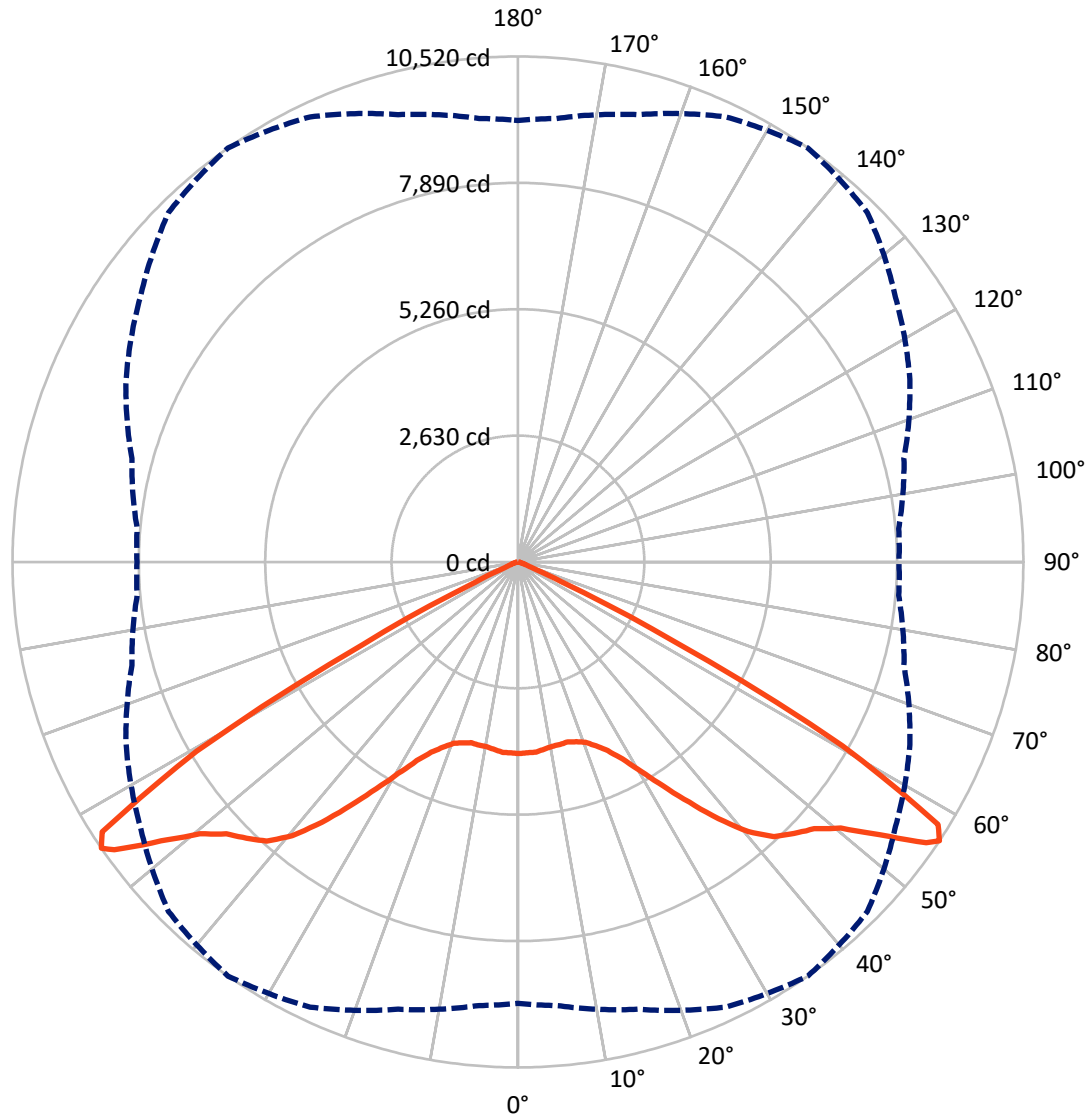
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11379.0	0.0	11379.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11379.0	0.0	11379.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22758.0	0.0	22758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	1.6
10°-20°	1094.2	4.8
20°-30°	1981.4	8.7
30°-40°	3674.2	16.1
40°-50°	6031.0	26.5
50°-60°	7769.7	34.1
60°-70°	1712.4	7.5
70°-80°	99.4	0.4
80°-90°	20.9	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°	22758.0	100.0
0°-180°	22758.0	100.0

Coefficient of Utilization



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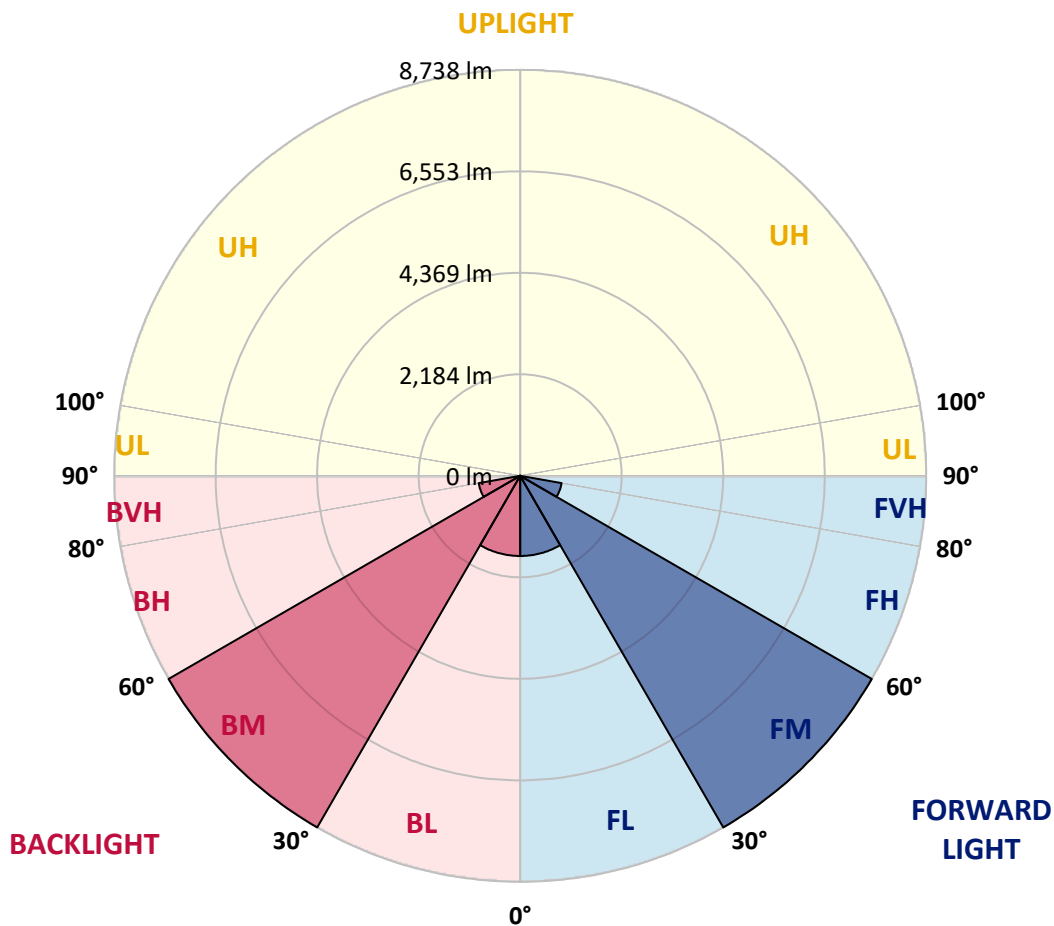
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.2	7.6			
FM (30°-60°)	8737.5	38.4			
FH (60°-80°)	905.9	4.0			G1/1800
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	1725.2	7.6	B3/2500		
BM (30°-60°)	8737.5	38.4	B5		
BH (60°-80°)	905.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.5	0.0			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°	3987.7	3987.7	3987.7	3987.7	3987.7	3987.7	3987.7	3987.7	3987.7	3987.7	3987.7
2.5°	3995.9	3995.9	4000.1	4004.2	3975.3	3962.9	3967.1	3958.8	3954.7	3967.1	3967.1
5°	3983.6	3983.6	3971.2	3975.3	3975.3	3938.2	3938.2	3946.5	3946.5	3921.7	3913.5
7.5°	3950.6	3942.3	3925.8	3946.5	3934.1	3934.1	3905.2	3884.6	3876.3	3892.8	3876.3
10°	3880.5	3884.6	3901.1	3909.3	3901.1	3925.8	3876.3	3847.5	3818.6	3806.2	3806.2
12.5°	3847.5	3872.2	3847.5	3868.1	3897.0	3876.3	3847.5	3826.9	3785.6	3769.1	3769.1
15°	3843.4	3859.9	3868.1	3897.0	3884.6	3892.8	3835.1	3810.4	3748.5	3719.6	3707.3
17.5°	3839.2	3859.9	3872.2	3925.8	3934.1	3938.2	3892.8	3818.6	3765.0	3736.1	3707.3
20°	3884.6	3892.8	3917.6	3971.2	4004.2	4061.9	3979.4	3901.1	3785.6	3752.6	3740.3
22.5°	3942.3	3983.6	4008.3	4066.0	4152.6	4202.1	4094.9	3995.9	3876.3	3835.1	3785.6
25°	4127.9	4119.7	4160.9	4280.5	4350.6	4387.7	4301.1	4156.8	4000.1	3950.6	3958.8
27.5°	4358.8	4367.1	4404.2	4536.2	4639.2	4697.0	4593.9	4404.2	4251.6	4169.1	4160.9
30°	4659.9	4651.6	4692.9	4870.2	5055.7	5142.3	4960.9	4738.2	4589.8	4482.5	4507.3
32.5°	4977.4	4981.5	5097.0	5257.8	5558.8	5727.9	5435.1	5163.0	4940.3	4866.1	4828.9
35°	5447.5	5468.1	5558.8	5806.3	6140.3	6358.9	6037.2	5711.4	5455.8	5319.7	5336.2
37.5°	6029.0	6008.3	6160.9	6429.0	6779.5	6940.3	6668.1	6297.0	6037.2	5946.5	6004.2
40°	6647.5	6668.1	6746.5	6989.8	7381.6	7488.8	7084.6	6882.6	6655.8	6610.4	6680.5
42.5°	7266.1	7253.7	7311.5	7530.0	7814.6	7740.3	7501.1	7381.6	7220.7	7130.0	7224.9
45°	7719.7	7699.1	7806.3	7954.8	8057.9	7917.6	7810.4	7769.2	7686.7	7587.7	7674.3
47.5°	8161.0	8144.5	8247.6	8288.8	8297.0	8111.5	8132.1	8206.3	8000.1	7793.9	7892.9
50°	8536.2	8507.3	8635.2	8725.9	8705.3	8408.4	8482.6	8408.4	8086.7	7843.4	7806.3
52.5°	9163.0	9175.4	9311.5	9476.4	9427.0	9179.5	9072.3	8734.2	8321.8	8103.2	7975.4
55°	9558.9	9497.1	9732.1	10255.8	10313.6	10057.9	9583.7	9084.7	8466.1	8198.1	8165.1
56°	9187.8	9266.1	9637.3	10222.8	10519.8	10284.7	9596.0	8998.1	8317.7	7954.8	7930.0
57.5°	8243.4	8202.2	8705.3	9505.3	10313.6	10214.6	9257.9	8379.5	7587.7	7179.5	7130.0
60°	5130.0	5249.6	5690.8	6680.5	7760.9	7810.4	6862.0	6107.3	5183.6	4820.7	4907.3
62.5°	2008.3	1905.2	2181.5	2919.6	3661.9	3826.9	3468.1	2882.5	2367.0	2008.3	1983.5
65°	466.0	453.6	511.3	705.2	985.6	1142.3	1084.6	779.4	573.2	544.3	503.1
67.5°	263.9	263.9	251.6	251.6	276.3	292.8	280.4	276.3	288.7	301.0	296.9
70°	185.6	181.4	173.2	177.3	169.1	169.1	181.4	202.1	218.6	218.6	222.7
72.5°	111.3	111.3	111.3	123.7	123.7	123.7	136.1	152.6	156.7	152.6	148.5
75°	49.5	49.5	57.7	70.1	78.4	82.5	94.8	103.1	111.3	103.1	94.8
77.5°	12.4	12.4	20.6	28.9	37.1	45.4	61.9	74.2	78.4	74.2	61.9
80°	4.1	4.1	8.2	20.6	37.1	45.4	61.9	66.0	70.1	61.9	49.5
82.5°	4.1	4.1	8.2	20.6	28.9	37.1	49.5	57.7	61.9	53.6	49.5
85°	0.0	4.1	8.2	16.5	24.7	33.0	33.0	24.7	20.6	12.4	16.5
87.5°	0.0	0.0	4.1	4.1	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)