

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: P457614

Luminaire Tested: **GALN-SA9A-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36364 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

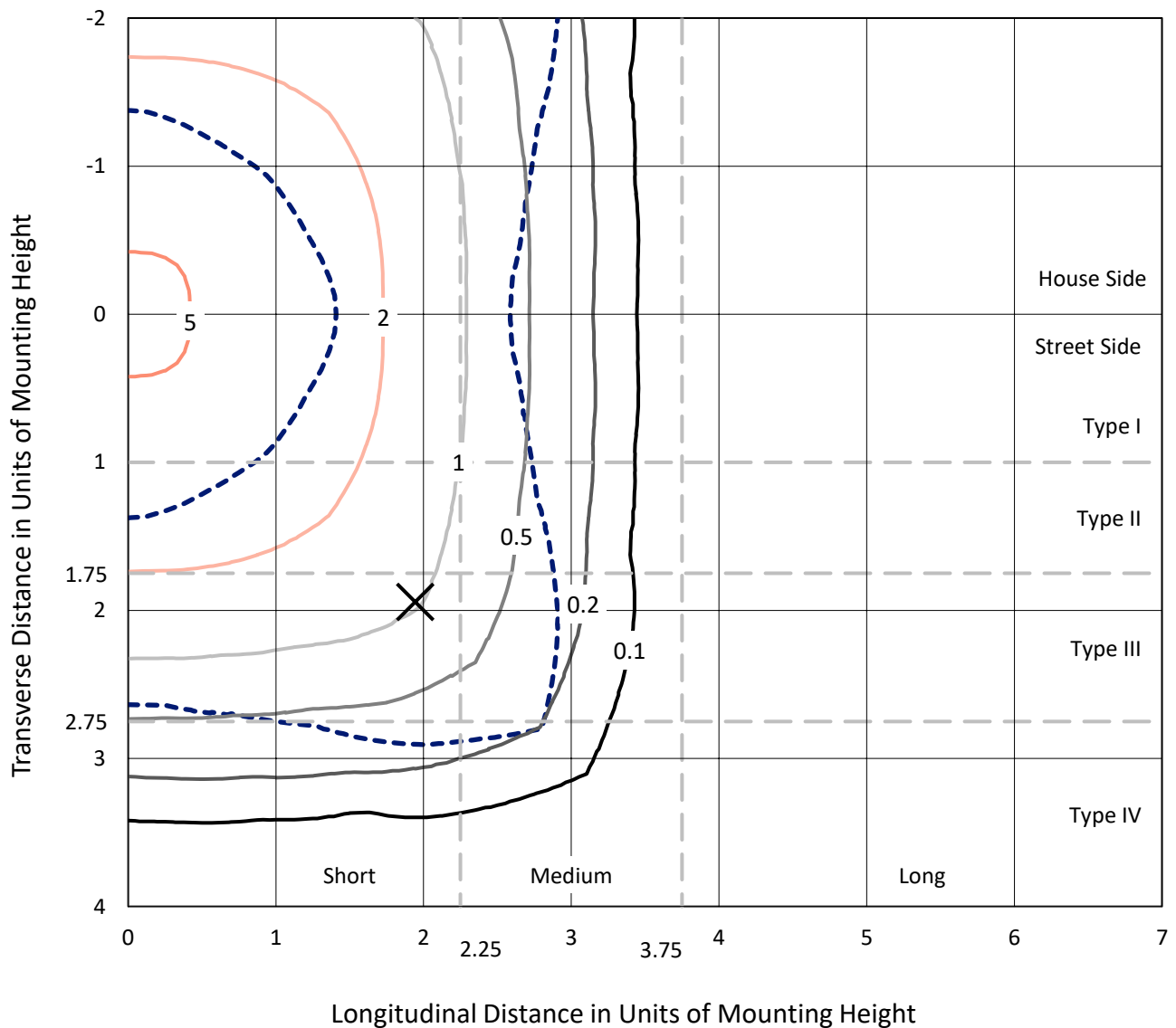
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

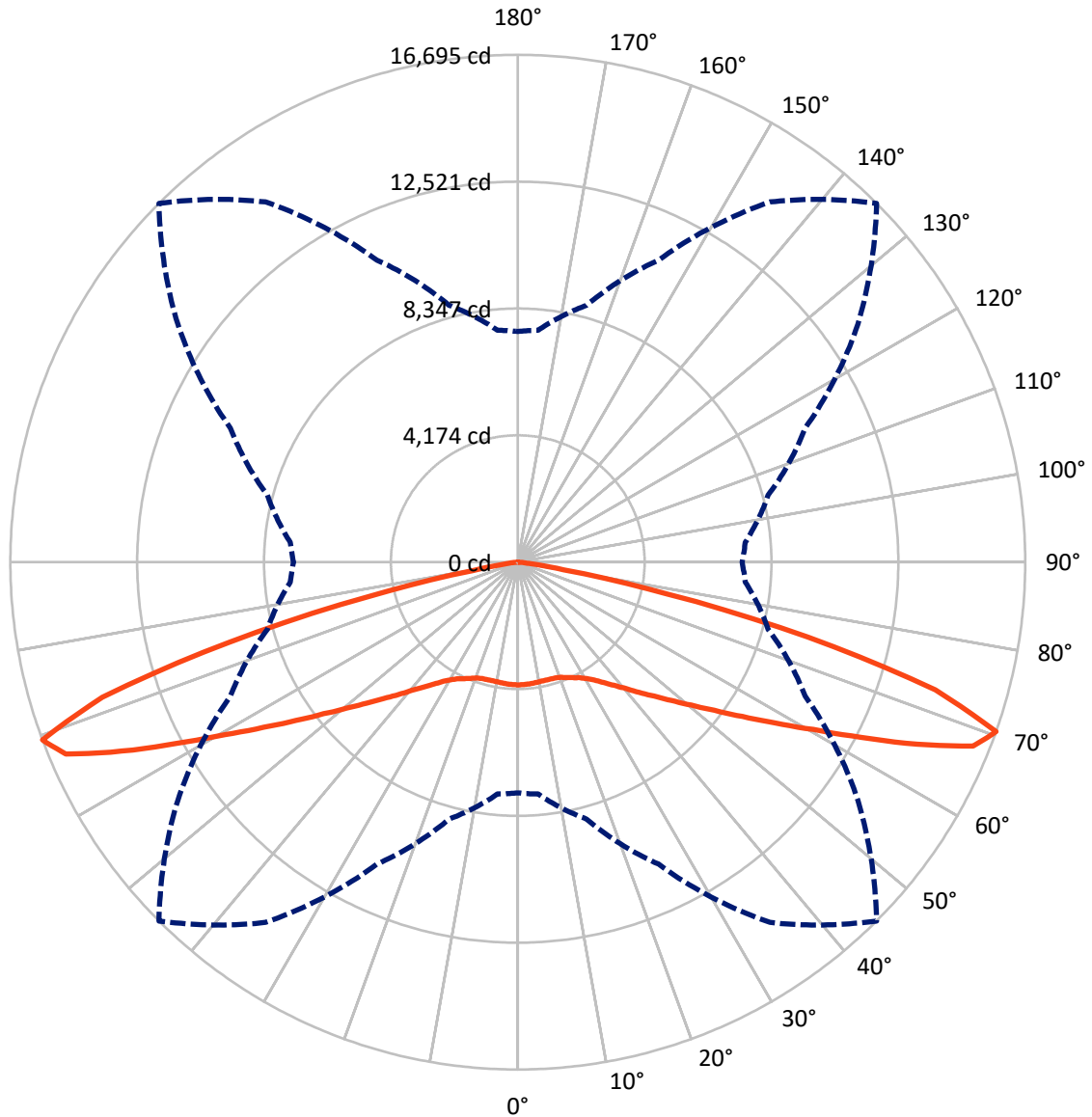
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	18182.0	0.0	18182.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18182.0	0.0	18182.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36364.0	0.0	36364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.1
10°-20°	1123.7	3.1
20°-30°	1921.8	5.3
30°-40°	3050.3	8.4
40°-50°	4921.0	13.5
50°-60°	8006.5	22.0
60°-70°	11606.5	31.9
70°-80°	5148.2	14.2
80°-90°	203.0	0.6
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°	36364.0	100.0
0°-180°	36364.0	100.0

Coefficient of Utilization



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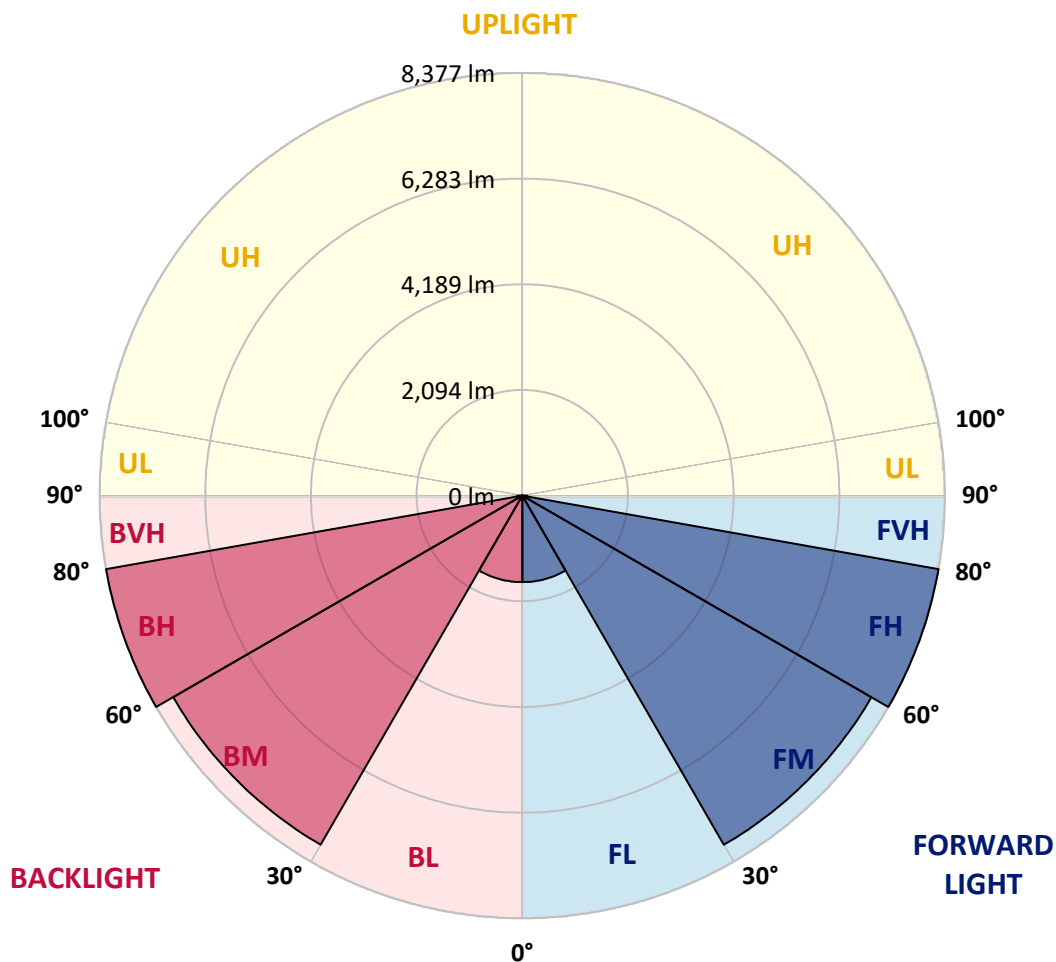
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1714.2	4.7			
FM	(30°-60°)	7988.9	22.0			
FH	(60°-80°)	8377.4	23.0			G4/12000
FVH	(80°-90°)	101.5	0.3			G2/225
BL	(0°-30°)	1714.2	4.7	B3/2500		
BM	(30°-60°)	7988.9	22.0	B4/8500		
BH	(60°-80°)	8377.4	23.0	B5		G4/12000
BVH	(80°-90°)	101.5	0.3			G2/225
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°	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1
2.5°	4038.1	4041.9	4036.1	4032.3	4030.4	4030.4	4028.5	4030.4	4041.9	4043.8	4038.1
5°	4026.6	4030.4	4028.5	4024.6	4022.7	4022.7	4020.8	4018.9	4028.5	4032.3	4030.4
7.5°	4011.2	4013.1	4011.2	4009.3	4011.2	4009.3	4003.6	3999.7	4007.4	4007.4	4005.5
10°	3984.4	3988.2	3986.3	3988.2	3992.1	3992.1	3984.4	3976.7	3978.6	3974.8	3974.8
12.5°	3951.8	3957.6	3959.5	3967.1	3976.7	3988.2	3971.0	3953.7	3949.9	3948.0	3946.1
15°	3930.7	3936.5	3944.1	3951.8	3969.1	3994.0	3969.1	3942.2	3934.6	3926.9	3923.1
17.5°	3925.0	3932.6	3944.1	3955.6	3978.6	4003.6	3982.5	3955.6	3936.5	3925.0	3921.1
20°	3940.3	3946.1	3963.3	3984.4	4017.0	4041.9	4020.8	3992.1	3963.3	3946.1	3940.3
22.5°	3971.0	3980.6	4001.6	4040.0	4086.0	4122.4	4093.6	4045.7	3999.7	3976.7	3969.1
25°	4038.1	4045.7	4070.6	4122.4	4176.0	4210.5	4179.9	4124.3	4061.0	4030.4	4020.8
27.5°	4139.6	4151.1	4178.0	4239.3	4283.4	4302.5	4281.4	4243.1	4197.1	4164.5	4156.9
30°	4283.4	4296.8	4337.0	4402.2	4430.9	4442.4	4432.8	4407.9	4375.4	4340.9	4333.2
32.5°	4476.9	4484.6	4530.6	4591.9	4618.7	4622.6	4611.1	4599.6	4545.9	4488.4	4484.6
35°	4693.5	4706.9	4762.5	4835.3	4860.2	4862.1	4839.1	4821.9	4758.7	4712.7	4712.7
37.5°	4981.0	4986.7	5040.4	5122.8	5149.6	5142.0	5130.5	5115.1	5048.0	4988.6	4990.5
40°	5318.3	5329.8	5375.8	5471.6	5471.6	5462.0	5469.7	5458.2	5391.1	5333.6	5335.5
42.5°	5718.8	5724.6	5780.1	5881.7	5874.1	5854.9	5862.6	5847.2	5805.1	5739.9	5716.9
45°	6146.2	6169.2	6265.0	6362.8	6347.4	6286.1	6316.8	6312.9	6274.6	6176.9	6182.6
47.5°	6661.7	6700.1	6792.1	6909.0	6891.7	6795.9	6830.4	6853.4	6799.7	6692.4	6673.2
50°	7242.4	7267.3	7403.4	7512.7	7497.3	7395.7	7474.3	7478.2	7344.0	7192.6	7192.6
52.5°	7861.5	7886.4	8070.4	8240.9	8250.5	8102.9	8166.2	8162.3	7943.9	7744.5	7706.2
55°	8555.2	8566.7	8804.4	9055.4	9109.1	8965.4	8973.0	8896.4	8612.7	8380.8	8359.7
57.5°	9272.0	9314.2	9576.7	9902.5	10061.6	9973.4	9933.2	9728.1	9454.1	9187.7	9174.3
60°	10065.4	10067.3	10408.5	10793.7	11115.7	11175.1	11010.3	10736.2	10381.6	10029.0	10013.7
62.5°	10615.5	10697.9	11129.1	11780.7	12357.5	12691.0	12256.0	11681.0	10983.4	10414.2	10356.7
65°	10728.5	10784.1	11441.5	12545.4	13724.0	14442.7	13436.5	12213.8	11023.7	10264.7	10226.4
67.5°	9814.4	9873.8	10759.2	12453.4	14682.3	16156.0	14203.1	11957.0	10341.4	9402.3	9327.6
70°	7591.2	7658.3	8752.6	10962.3	14469.5	16694.6	13656.9	10429.6	8528.4	7514.6	7378.5
72.5°	4036.1	4283.4	5218.6	7524.2	11744.3	14373.7	11198.1	7610.4	5500.3	4496.1	4315.9
75°	1473.8	1504.4	2025.7	3336.6	6832.3	9856.5	7094.9	3629.8	2087.1	1611.8	1529.4
77.5°	609.4	607.5	666.9	1008.1	2481.9	5048.0	2769.3	1065.6	665.0	615.2	607.5
80°	360.3	360.3	396.7	419.7	653.5	1523.6	730.2	475.3	398.6	364.1	369.9
82.5°	161.0	170.6	251.1	264.5	316.2	417.8	352.6	302.8	260.6	180.2	162.9
85°	88.2	76.7	132.2	138.0	151.4	155.2	166.7	164.8	151.4	88.2	90.1
87.5°	17.2	21.1	38.3	28.7	32.6	28.7	38.3	53.7	55.6	30.7	24.9
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)