

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: P455294

Luminaire Tested: **GALN-SA6C-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455294
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-SA6C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36568 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

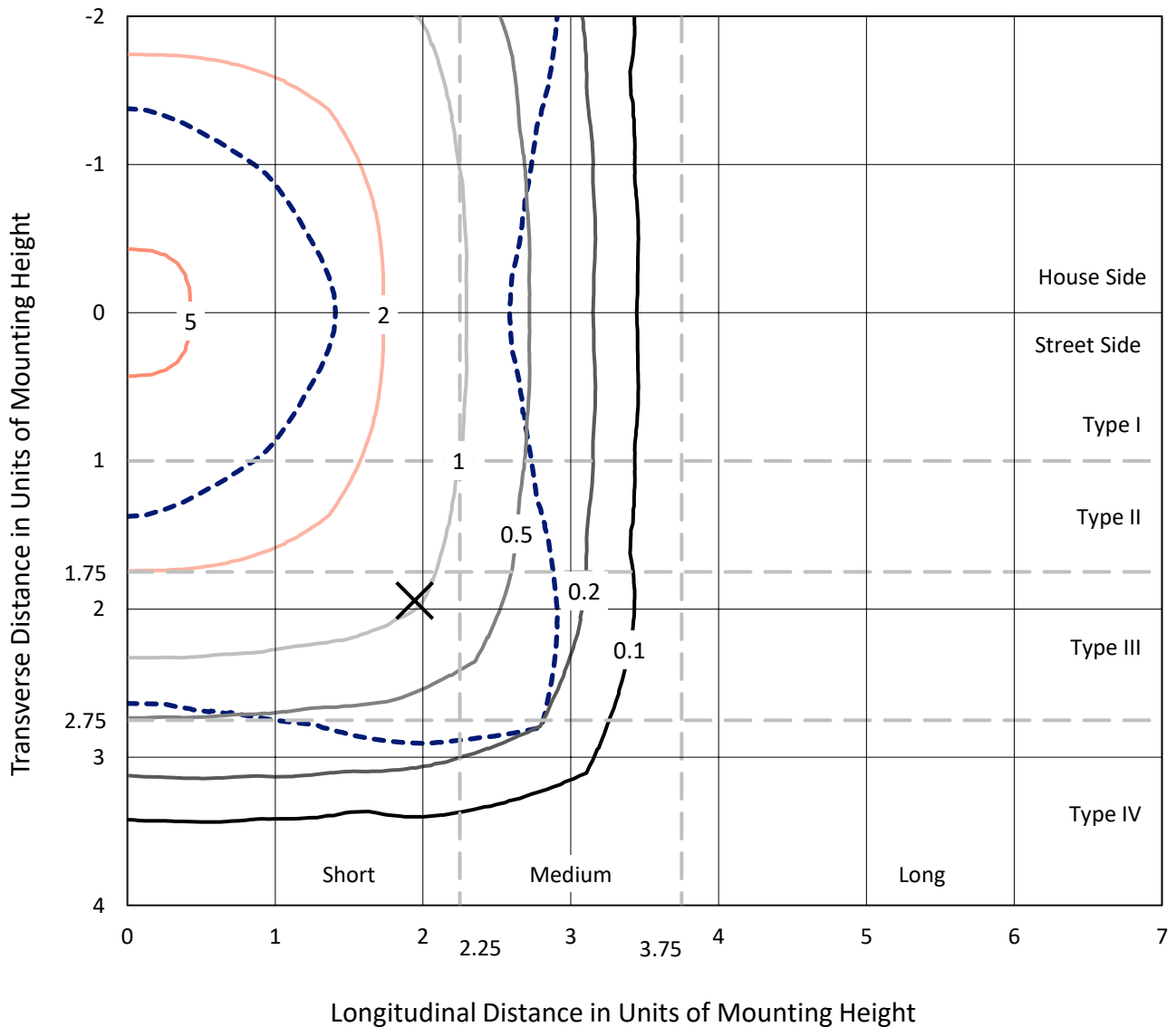
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

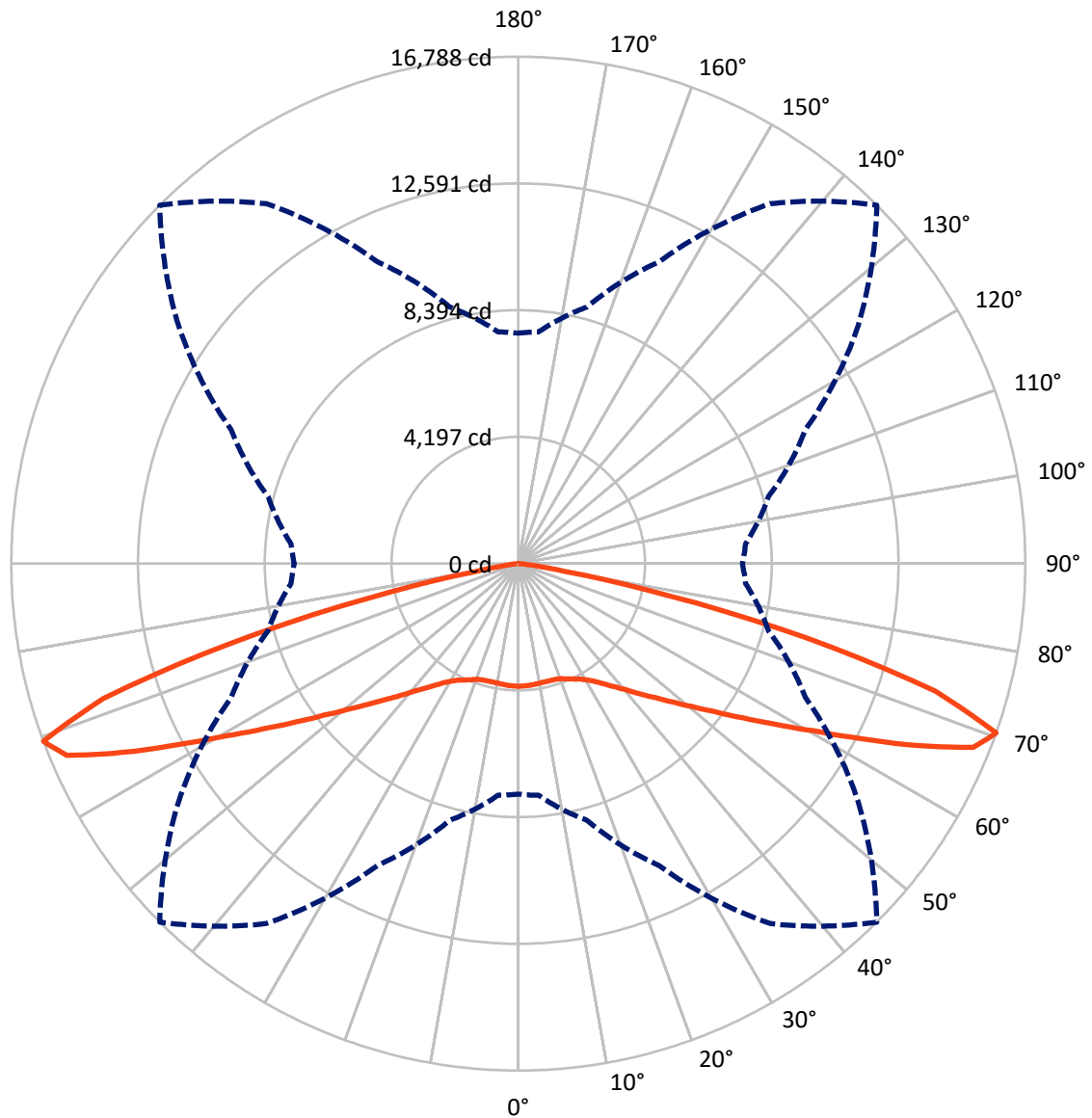
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	18284.0	0.0	18284.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18284.0	0.0	18284.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36568.0	0.0	36568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.1	1.1
10°-20°	1130.0	3.1
20°-30°	1932.6	5.3
30°-40°	3067.4	8.4
40°-50°	4948.6	13.5
50°-60°	8051.4	22.0
60°-70°	11671.7	31.9
70°-80°	5177.1	14.2
80°-90°	204.2	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°	36568.0	100.0
0°-180°	36568.0	100.0



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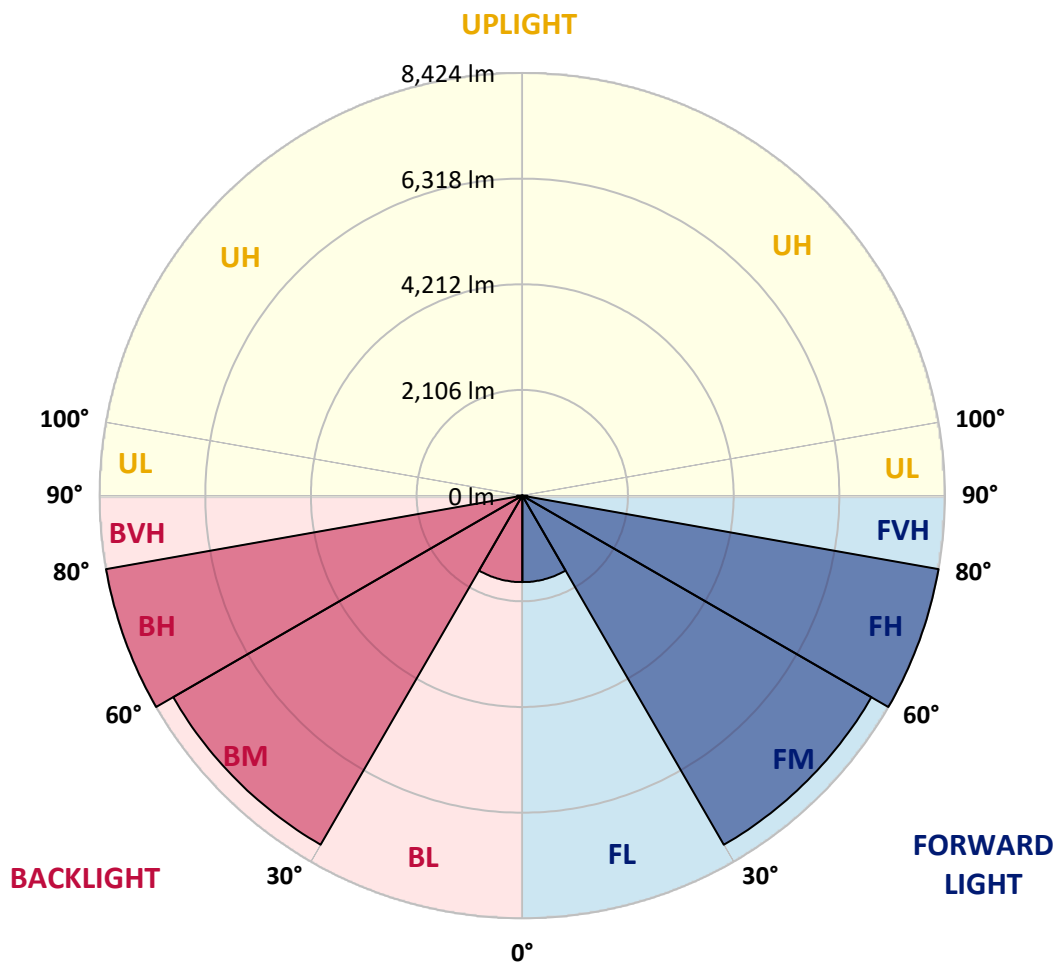
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1723.8	4.7			
FM	(30°-60°)	8033.7	22.0			
FH	(60°-80°)	8424.4	23.0			G4/12000
FVH	(80°-90°)	102.1	0.3			G2/225
BL	(0°-30°)	1723.8	4.7	B3/2500		
BM	(30°-60°)	8033.7	22.0	B4/8500		
BH	(60°-80°)	8424.4	23.0	B5		G4/12000
BVH	(80°-90°)	102.1	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°	4060.7	4060.7	4060.7	4060.7	4060.7	4060.7	4060.7	4060.7	4060.7	4060.7	4060.7
2.5°	4060.7	4064.6	4058.8	4054.9	4053.0	4053.0	4051.1	4053.0	4064.6	4066.5	4060.7
5°	4049.1	4053.0	4051.1	4047.2	4045.3	4045.3	4043.4	4041.4	4051.1	4054.9	4053.0
7.5°	4033.7	4035.6	4033.7	4031.8	4033.7	4031.8	4026.0	4022.2	4029.9	4029.9	4027.9
10°	4006.7	4010.6	4008.7	4010.6	4014.5	4014.5	4006.7	3999.0	4001.0	3997.1	3997.1
12.5°	3974.0	3979.8	3981.7	3989.4	3999.0	4010.6	3993.3	3975.9	3972.1	3970.1	3968.2
15°	3952.8	3958.6	3966.3	3974.0	3991.3	4016.4	3991.3	3964.3	3956.6	3948.9	3945.1
17.5°	3947.0	3954.7	3966.3	3977.8	4001.0	4026.0	4004.8	3977.8	3958.6	3947.0	3943.1
20°	3962.4	3968.2	3985.5	4006.7	4039.5	4064.6	4043.4	4014.5	3985.5	3968.2	3962.4
22.5°	3993.3	4002.9	4024.1	4062.6	4108.9	4145.5	4116.6	4068.4	4022.2	3999.0	3991.3
25°	4060.7	4068.4	4093.5	4145.5	4199.5	4234.2	4203.3	4147.4	4083.8	4053.0	4043.4
27.5°	4162.8	4174.4	4201.4	4263.1	4307.4	4326.7	4305.5	4266.9	4220.7	4187.9	4180.2
30°	4307.4	4320.9	4361.4	4426.9	4455.8	4467.4	4457.7	4432.7	4399.9	4365.2	4357.5
32.5°	4502.0	4509.8	4556.0	4617.7	4644.7	4648.5	4637.0	4625.4	4571.4	4513.6	4509.8
35°	4719.8	4733.3	4789.2	4862.4	4887.5	4889.4	4866.3	4848.9	4785.3	4739.1	4739.1
37.5°	5008.9	5014.7	5068.7	5151.5	5178.5	5170.8	5159.2	5143.8	5076.4	5016.6	5018.5
40°	5348.1	5359.7	5405.9	5502.3	5502.3	5492.6	5500.4	5488.8	5421.3	5363.5	5365.4
42.5°	5750.9	5756.7	5812.6	5914.7	5907.0	5887.7	5895.4	5880.0	5837.6	5772.1	5749.0
45°	6180.7	6203.8	6300.2	6398.5	6383.0	6321.4	6352.2	6348.3	6309.8	6211.5	6217.3
47.5°	6699.1	6737.6	6830.2	6947.7	6930.4	6834.0	6868.7	6891.8	6837.9	6729.9	6710.7
50°	7283.1	7308.1	7444.9	7554.8	7539.4	7437.2	7516.3	7520.1	7385.2	7232.9	7232.9
52.5°	7905.6	7930.6	8115.6	8287.2	8296.8	8148.4	8212.0	8208.1	7988.4	7788.0	7749.4
55°	8603.2	8614.8	8853.8	9106.2	9160.2	9015.6	9023.4	8946.3	8661.0	8427.8	8406.6
57.5°	9324.0	9366.4	9630.4	9958.1	10118.0	10029.4	9988.9	9782.7	9507.1	9239.2	9225.7
60°	10121.9	10123.8	10466.9	10854.2	11178.0	11237.8	11072.0	10796.4	10439.9	10085.3	10069.9
62.5°	10675.0	10757.9	11191.5	11846.8	12426.9	12762.2	12324.7	11746.6	11045.0	10472.6	10414.8
65°	10788.7	10844.6	11505.6	12615.7	13801.0	14523.7	13511.9	12282.3	11085.5	10322.3	10283.8
67.5°	9869.4	9929.2	10819.6	12523.2	14764.6	16246.7	14282.8	12024.1	10399.4	9455.1	9379.9
70°	7633.8	7701.3	8801.7	11023.8	14550.7	16788.2	13733.5	10488.1	8576.2	7556.7	7419.9
72.5°	4058.8	4307.4	5247.9	7566.4	11810.2	14454.3	11260.9	7653.1	5531.2	4521.3	4340.2
75°	1482.1	1512.9	2037.1	3355.3	6870.6	9911.8	7134.7	3650.2	2098.8	1620.8	1537.9
77.5°	612.9	610.9	670.7	1013.7	2495.8	5076.4	2784.9	1071.5	668.8	618.6	610.9
80°	362.3	362.3	398.9	422.1	657.2	1532.2	734.3	478.0	400.9	366.2	372.0
82.5°	161.9	171.5	252.5	266.0	318.0	420.1	354.6	304.5	262.1	181.2	163.8
85°	88.7	77.1	133.0	138.8	152.3	156.1	167.7	165.7	152.3	88.7	90.6
87.5°	17.3	21.2	38.5	28.9	32.8	28.9	38.5	54.0	55.9	30.8	25.1
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)