

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: P455526

Luminaire Tested: **GALN-SA6D-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455526
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-SA6D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40237 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

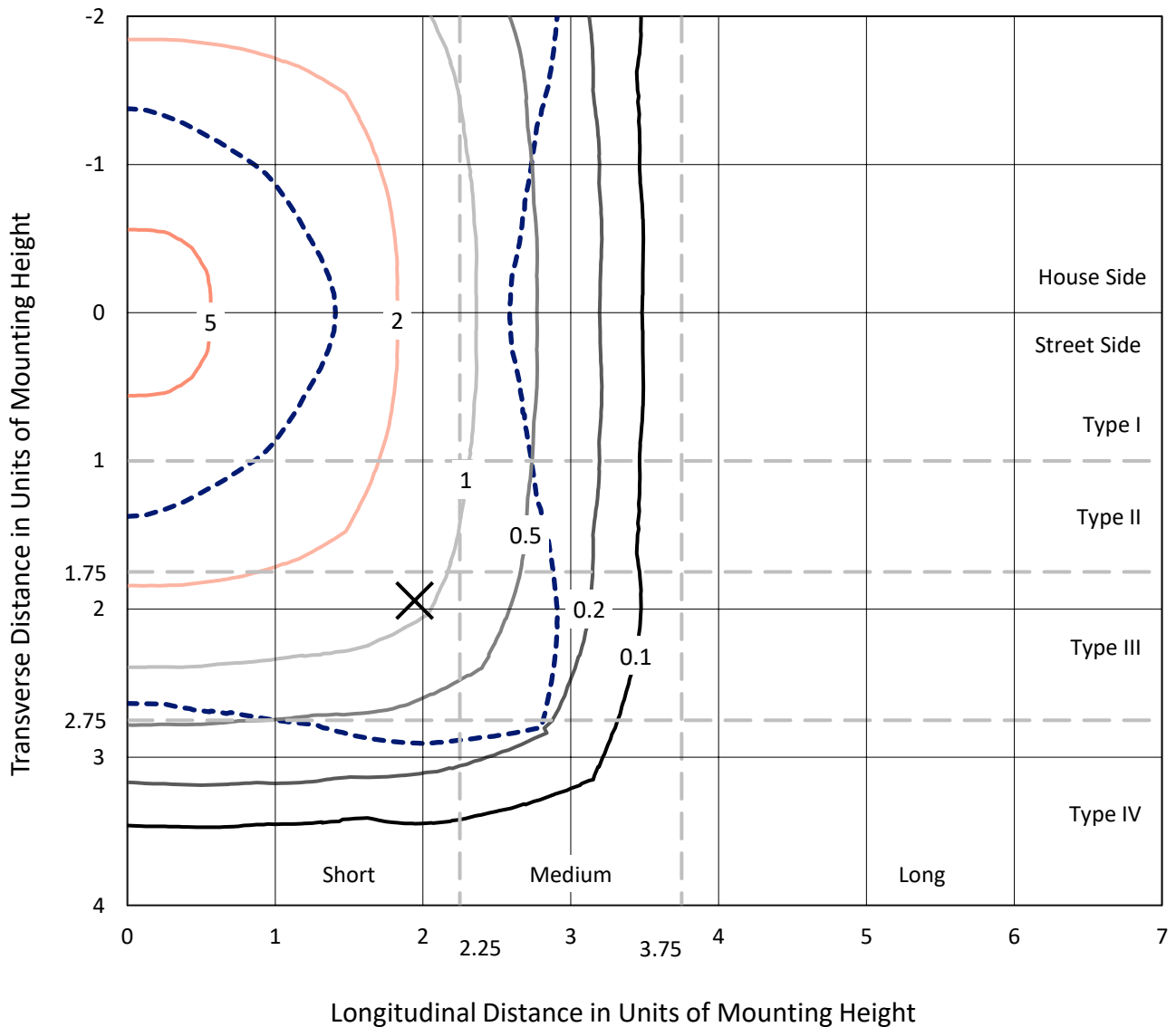
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

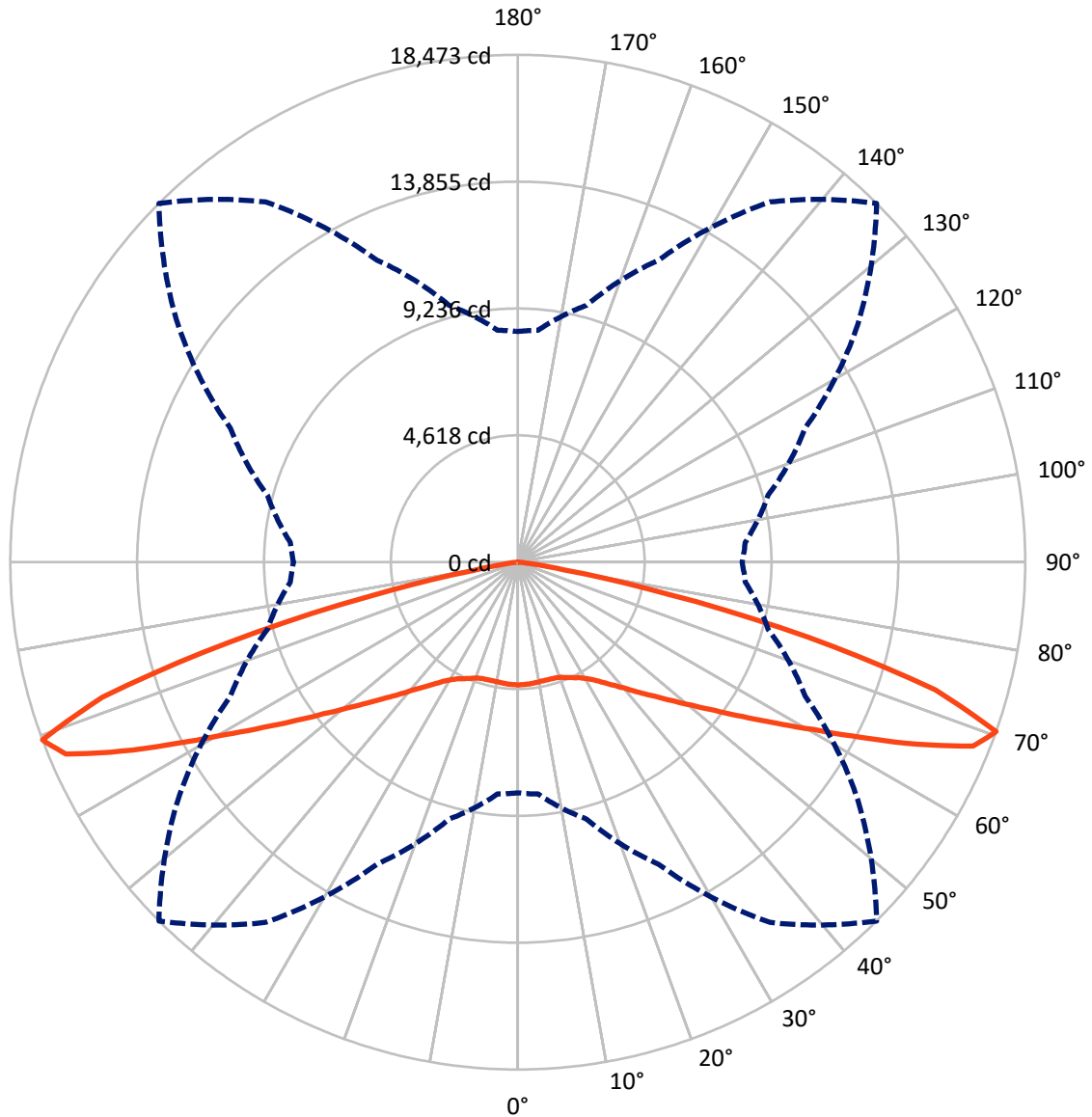
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	20118.5	0.0	20118.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20118.5	0.0	20118.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40237.0	0.0	40237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	1.1
10°-20°	1243.3	3.1
20°-30°	2126.5	5.3
30°-40°	3375.2	8.4
40°-50°	5445.1	13.5
50°-60°	8859.2	22.0
60°-70°	12842.7	31.9
70°-80°	5696.6	14.2
80°-90°	224.7	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°	40237.0	100.0
0°-180°	40237.0	100.0



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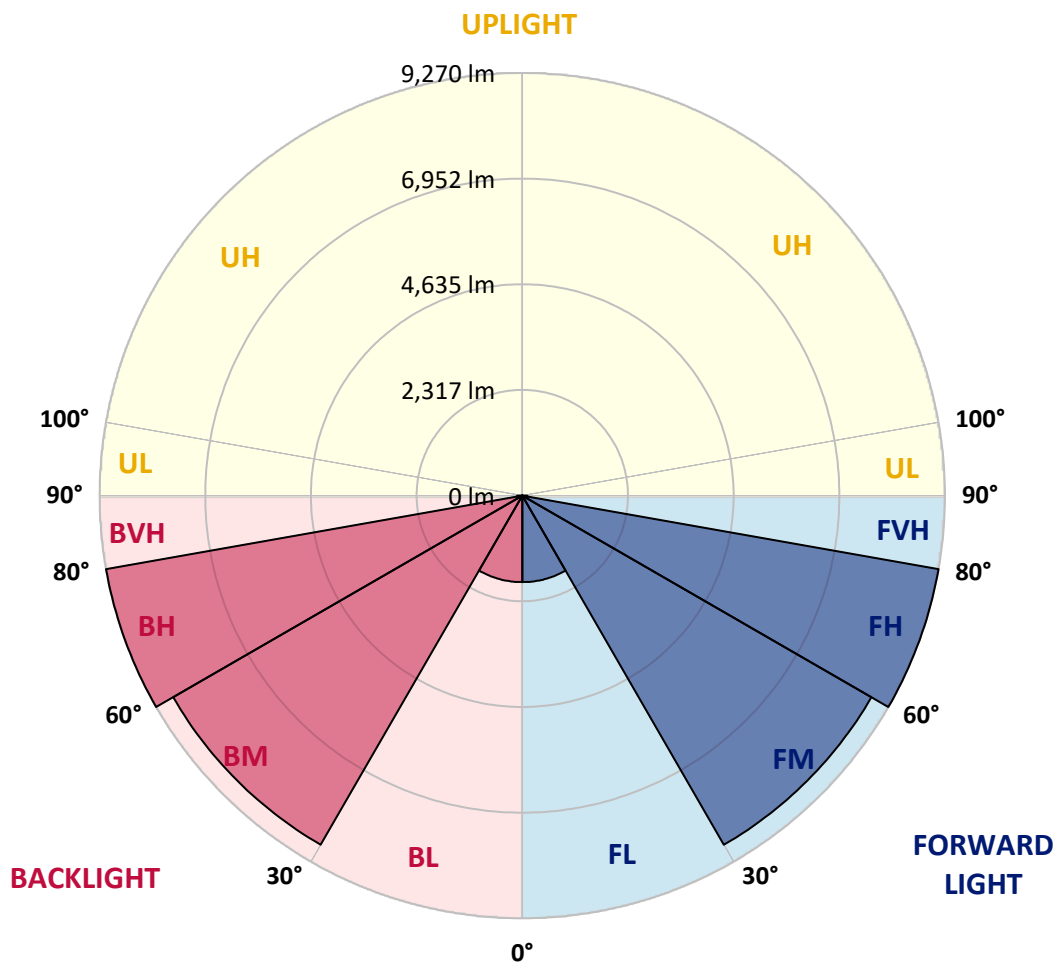
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1896.8	4.7			
FM	(30°-60°)	8839.8	22.0			
FH	(60°-80°)	9269.6	23.0			G4/12000
FVH	(80°-90°)	112.3	0.3			G2/225
BL	(0°-30°)	1896.8	4.7	B3/2500		
BM	(30°-60°)	8839.8	22.0	B5		
BH	(60°-80°)	9269.6	23.0	B5		G4/12000
BVH	(80°-90°)	112.3	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°	4468.1	4468.1	4468.1	4468.1	4468.1	4468.1	4468.1	4468.1	4468.1	4468.1	4468.1
2.5°	4468.1	4472.4	4466.0	4461.8	4459.6	4459.6	4457.5	4459.6	4472.4	4474.5	4468.1
5°	4455.4	4459.6	4457.5	4453.3	4451.2	4451.2	4449.0	4446.9	4457.5	4461.8	4459.6
7.5°	4438.4	4440.6	4438.4	4436.3	4438.4	4436.3	4430.0	4425.7	4434.2	4434.2	4432.1
10°	4408.8	4413.0	4410.9	4413.0	4417.2	4417.2	4408.8	4400.3	4402.4	4398.1	4398.1
12.5°	4372.7	4379.1	4381.2	4389.7	4400.3	4413.0	4393.9	4374.8	4370.6	4368.5	4366.3
15°	4349.4	4355.7	4364.2	4372.7	4391.8	4419.4	4391.8	4362.1	4353.6	4345.1	4340.9
17.5°	4343.0	4351.5	4364.2	4376.9	4402.4	4430.0	4406.6	4376.9	4355.7	4343.0	4338.8
20°	4360.0	4366.3	4385.4	4408.8	4444.8	4472.4	4449.0	4417.2	4385.4	4366.3	4360.0
22.5°	4393.9	4404.5	4427.8	4470.2	4521.1	4561.4	4529.6	4476.6	4425.7	4400.3	4391.8
25°	4468.1	4476.6	4504.2	4561.4	4620.8	4659.0	4625.1	4563.6	4493.6	4459.6	4449.0
27.5°	4580.5	4593.2	4622.9	4690.8	4739.6	4760.8	4737.4	4695.0	4644.1	4608.1	4599.6
30°	4739.6	4754.4	4798.9	4871.0	4902.9	4915.6	4905.0	4877.4	4841.4	4803.2	4794.7
32.5°	4953.7	4962.2	5013.1	5081.0	5110.7	5114.9	5102.2	5089.5	5030.1	4966.5	4962.2
35°	5193.4	5208.2	5269.7	5350.3	5377.9	5380.0	5354.5	5335.5	5265.5	5214.6	5214.6
37.5°	5511.5	5517.8	5577.2	5668.4	5698.1	5689.6	5676.9	5659.9	5585.7	5520.0	5522.1
40°	5884.7	5897.4	5948.3	6054.3	6054.3	6043.7	6052.2	6039.5	5965.3	5901.7	5903.8
42.5°	6327.9	6334.3	6395.8	6508.2	6499.7	6478.5	6487.0	6470.0	6423.3	6351.2	6325.8
45°	6800.8	6826.2	6932.3	7040.4	7023.5	6955.6	6989.5	6985.3	6942.9	6834.7	6841.1
47.5°	7371.2	7413.7	7515.4	7644.8	7625.7	7519.7	7557.9	7583.3	7523.9	7405.2	7384.0
50°	8013.8	8041.4	8191.9	8312.8	8295.8	8183.4	8270.4	8274.6	8126.2	7958.7	7958.7
52.5°	8698.7	8726.3	8929.9	9118.6	9129.2	8965.9	9035.9	9031.7	8789.9	8569.4	8527.0
55°	9466.4	9479.1	9742.1	10019.9	10079.3	9920.2	9928.7	9843.9	9530.0	9273.4	9250.1
57.5°	10259.5	10306.2	10596.7	10957.2	11133.2	11035.7	10991.1	10764.2	10461.0	10166.2	10151.4
60°	11137.5	11139.6	11517.0	11943.3	12299.5	12365.3	12182.9	11879.7	11487.4	11097.2	11080.2
62.5°	11746.1	11837.3	12314.4	13035.4	13673.7	14042.7	13561.3	12925.1	12153.2	11523.4	11459.8
65°	11871.2	11932.7	12660.1	13881.5	15185.7	15980.9	14867.6	13514.7	12197.8	11358.0	11315.6
67.5°	10859.7	10925.4	11905.1	13779.7	16246.0	17876.8	15715.9	13230.5	11442.8	10403.7	10321.0
70°	8399.7	8474.0	9684.8	12129.9	16010.6	18472.7	15111.5	11540.4	9436.7	8314.9	8164.4
72.5°	4466.0	4739.6	5774.4	8325.5	12995.1	15904.6	12390.7	8420.9	6086.2	4975.0	4775.6
75°	1630.8	1664.7	2241.5	3692.0	7560.0	10906.3	7850.5	4016.4	2309.3	1783.4	1692.2
77.5°	674.4	672.2	738.0	1115.4	2746.2	5585.7	3064.3	1179.1	735.9	680.7	672.2
80°	398.7	398.7	439.0	464.4	723.1	1685.9	808.0	525.9	441.1	402.9	409.3
82.5°	178.1	188.7	277.8	292.6	349.9	462.3	390.2	335.1	288.4	199.3	180.3
85°	97.5	84.8	146.3	152.7	167.5	171.8	184.5	182.4	167.5	97.5	99.7
87.5°	19.1	23.3	42.4	31.8	36.1	31.8	42.4	59.4	61.5	33.9	27.6
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)