

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: P457152

Luminaire Tested: **GALN-SA8C-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49691 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

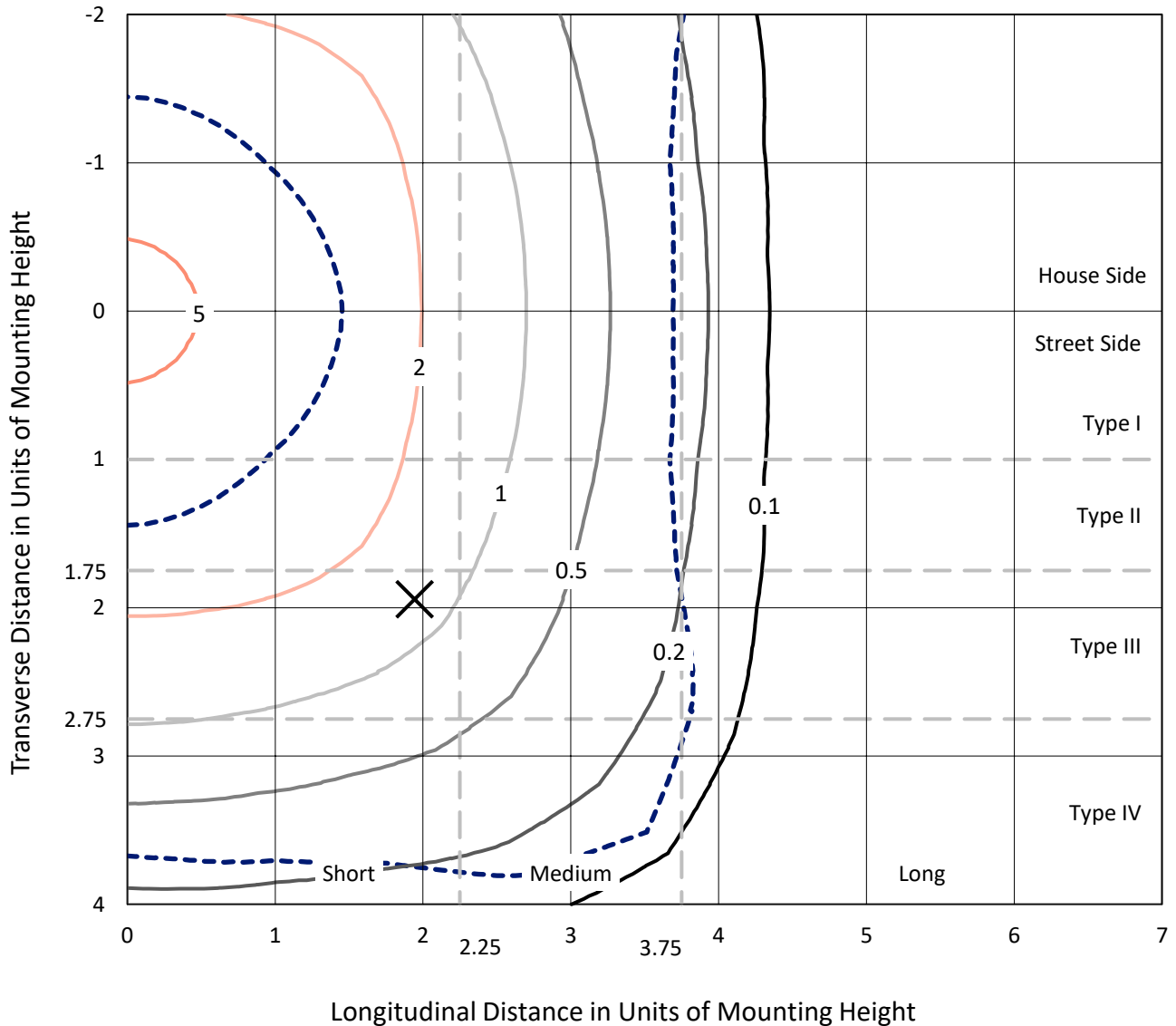
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

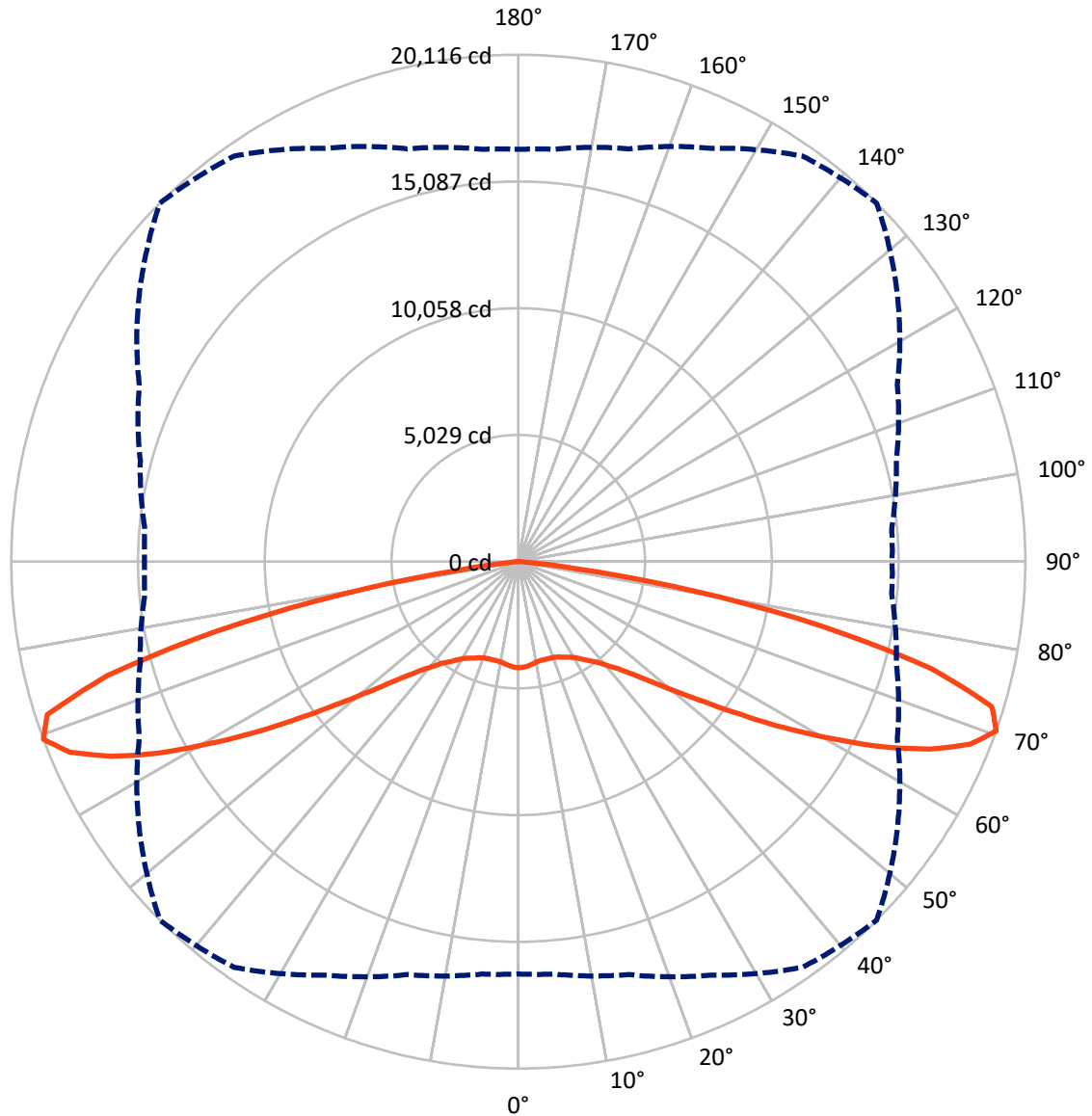
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	24845.5	0.0	24845.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24845.5	0.0	24845.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49691.0	0.0	49691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	0.8
10°-20°	1151.8	2.3
20°-30°	1962.4	3.9
30°-40°	3041.7	6.1
40°-50°	5119.5	10.3
50°-60°	9314.8	18.7
60°-70°	15769.7	31.7
70°-80°	12206.3	24.6
80°-90°	731.4	1.5
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°	49691.0	100.0
0°-180°	49691.0	100.0

Coefficient of Utilization



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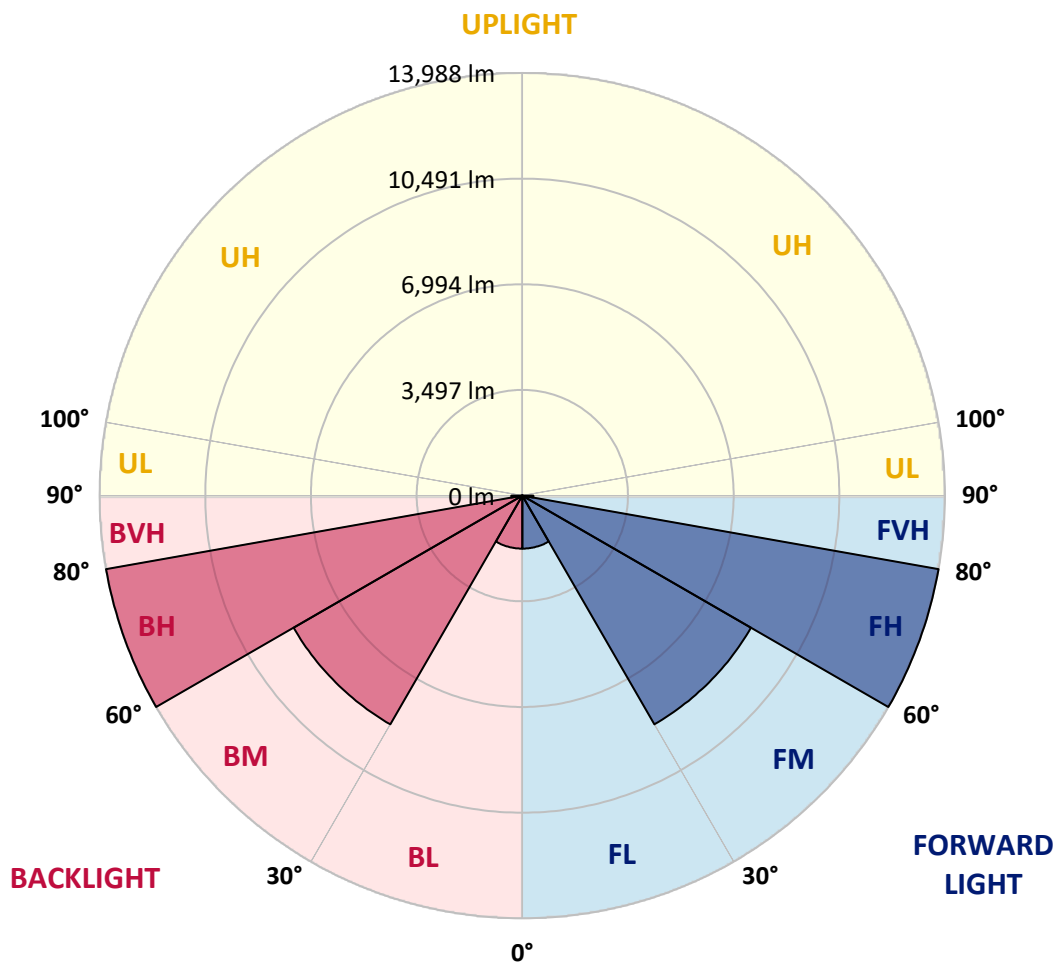
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1753.8	3.5			
FM	(30°-60°)	8738.0	17.6			
FH	(60°-80°)	13988.0	28.1			G5
FVH	(80°-90°)	365.7	0.7			G3/500
BL	(0°-30°)	1753.8	3.5	B3/2500		
BM	(30°-60°)	8738.0	17.6	B5		
BH	(60°-80°)	13988.0	28.1	B5		G5
BVH	(80°-90°)	365.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4207.0	4207.0	4207.0	4207.0	4207.0	4207.0	4207.0	4207.0	4207.0	4207.0	4207.0
2.5°	4196.5	4199.1	4199.1	4193.8	4191.2	4191.2	4188.6	4188.6	4196.5	4199.1	4201.7
5°	4159.7	4159.7	4159.7	4157.1	4151.8	4151.8	4146.6	4146.6	4149.2	4157.1	4151.8
7.5°	4109.8	4115.1	4115.1	4104.6	4096.7	4096.7	4094.1	4096.7	4099.4	4107.2	4104.6
10°	4094.1	4096.7	4083.6	4065.2	4052.1	4044.2	4046.9	4052.1	4065.2	4070.5	4073.1
12.5°	4104.6	4104.6	4081.0	4054.7	4031.1	4020.6	4018.0	4036.4	4060.0	4075.7	4081.0
15°	4117.7	4112.5	4083.6	4049.5	4025.9	4023.2	4020.6	4033.7	4067.9	4099.4	4102.0
17.5°	4125.6	4123.0	4086.2	4044.2	4031.1	4031.1	4028.5	4039.0	4075.7	4115.1	4117.7
20°	4151.8	4144.0	4102.0	4057.4	4046.9	4052.1	4044.2	4057.4	4096.7	4144.0	4154.5
22.5°	4204.3	4196.5	4154.5	4109.8	4104.6	4104.6	4102.0	4115.1	4157.1	4207.0	4214.8
25°	4267.3	4259.4	4220.1	4188.6	4193.8	4204.3	4199.1	4201.7	4235.8	4277.8	4290.9
27.5°	4351.3	4338.2	4304.1	4277.8	4293.6	4293.6	4293.6	4290.9	4311.9	4351.3	4364.4
30°	4453.6	4448.4	4411.7	4409.0	4422.2	4409.0	4409.0	4411.7	4414.3	4451.0	4464.1
32.5°	4587.5	4577.0	4558.6	4553.4	4590.1	4600.6	4563.9	4529.8	4548.1	4584.9	4592.7
35°	4807.9	4792.2	4766.0	4737.1	4766.0	4815.8	4737.1	4710.8	4758.1	4807.9	4813.2
37.5°	5107.1	5099.3	5057.3	5004.8	5002.2	5054.6	4973.3	4970.7	5059.9	5120.3	5128.1
40°	5482.4	5490.3	5437.8	5387.9	5361.7	5403.7	5340.7	5364.3	5450.9	5519.2	5513.9
42.5°	6009.9	5981.1	5899.7	5852.5	5823.6	5807.9	5792.1	5828.8	5925.9	5999.4	6057.2
45°	6626.7	6616.2	6513.8	6456.1	6393.1	6369.5	6364.2	6429.8	6547.9	6637.2	6645.0
47.5°	7324.8	7301.1	7235.5	7175.2	7151.6	7122.7	7096.4	7146.3	7264.4	7327.4	7345.8
50°	8043.9	8049.1	8049.1	8038.6	8062.2	8067.5	7996.6	8015.0	8080.6	8075.4	8070.1
52.5°	8865.3	8894.2	9030.6	9043.8	9156.6	9232.7	9104.1	9028.0	9004.4	8862.7	8873.2
55°	9831.1	9857.3	10062.0	10266.7	10571.2	10699.8	10429.5	10193.3	10025.3	9810.1	9820.6
57.5°	11035.7	11048.8	11243.0	11636.7	12119.6	12421.4	11946.4	11479.2	11138.1	10933.4	10852.0
60°	12332.2	12345.3	12628.7	13109.0	13859.6	14227.0	13639.1	12875.4	12445.0	12132.7	12153.7
62.5°	13888.5	13940.9	14195.5	14856.9	15767.5	16179.6	15400.1	14379.2	13796.6	13408.2	13423.9
65°	15555.0	15644.2	15922.4	16649.3	17489.2	17932.7	16977.4	15799.0	15074.7	14599.7	14649.5
67.5°	16636.2	16715.0	17116.5	17919.6	18966.7	19334.1	18100.7	16728.1	15822.7	15255.8	15150.8
70°	16360.7	16426.3	16961.7	18100.7	19651.7	20116.2	18368.3	16591.6	15526.1	14872.6	14830.6
72.5°	14442.2	14305.7	15087.8	16722.8	18869.6	19649.1	17525.9	15153.4	13812.3	13140.5	13061.8
75°	9571.3	9867.8	11022.6	12948.9	15964.4	16930.2	14959.2	12166.8	10479.3	9920.3	9833.7
77.5°	3199.2	3427.5	4453.6	7340.5	10883.5	12334.8	10899.2	7957.3	5629.4	4535.0	4556.0
80°	847.7	837.2	1083.9	2018.2	4703.0	7143.7	5474.5	2695.3	1474.9	1068.1	1013.0
82.5°	304.4	341.2	438.3	559.0	1246.6	2220.3	1566.8	755.8	553.8	409.4	396.3
85°	133.8	131.2	189.0	223.1	312.3	414.7	367.4	320.2	280.8	186.3	173.2
87.5°	28.9	28.9	44.6	34.1	55.1	55.1	68.2	81.4	84.0	55.1	44.6
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)