

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: P457155

Luminaire Tested: **GALN-SA8C-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48985 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - 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

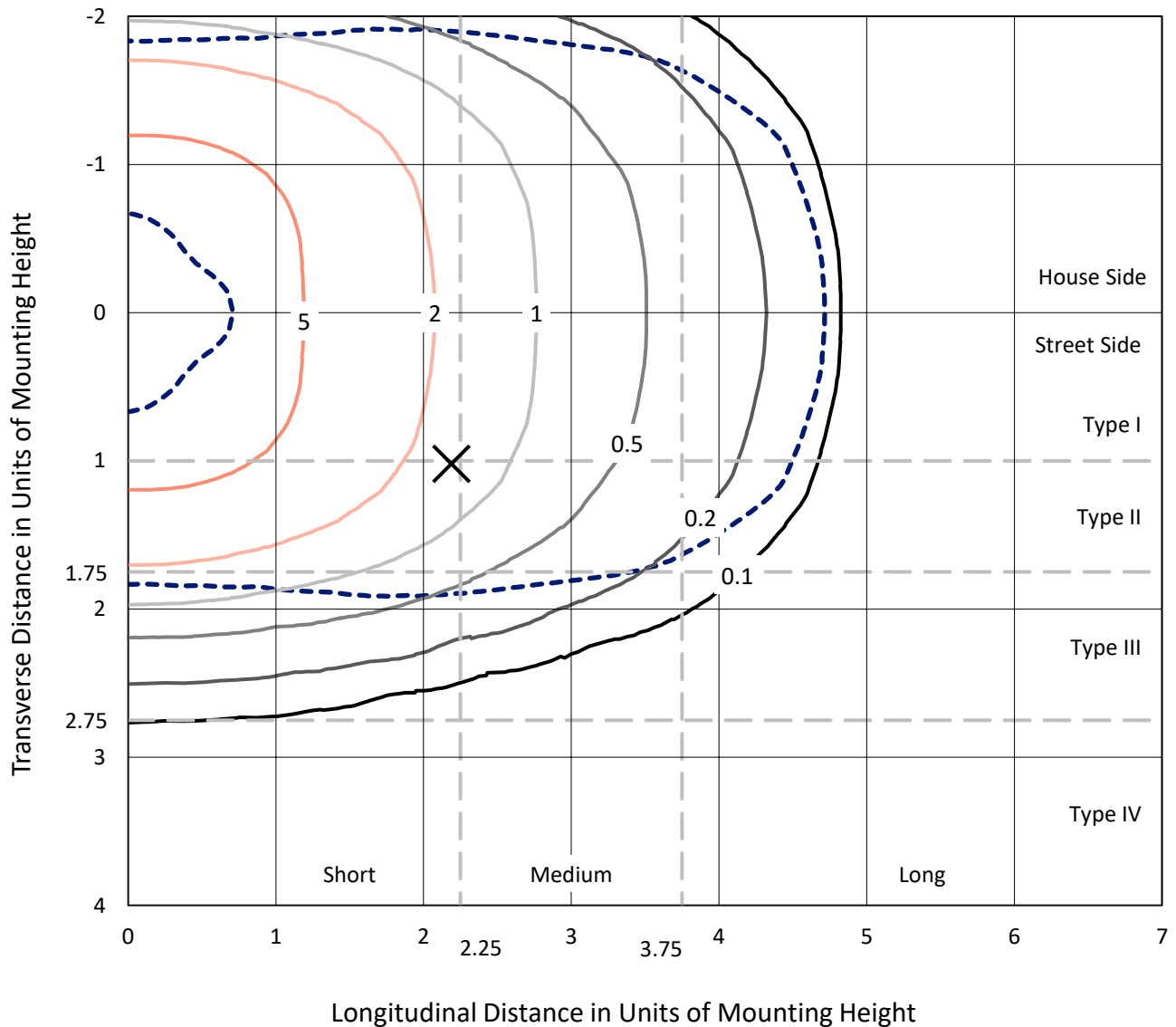




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Iso-Footcandle Lines of Horizontal Illumination

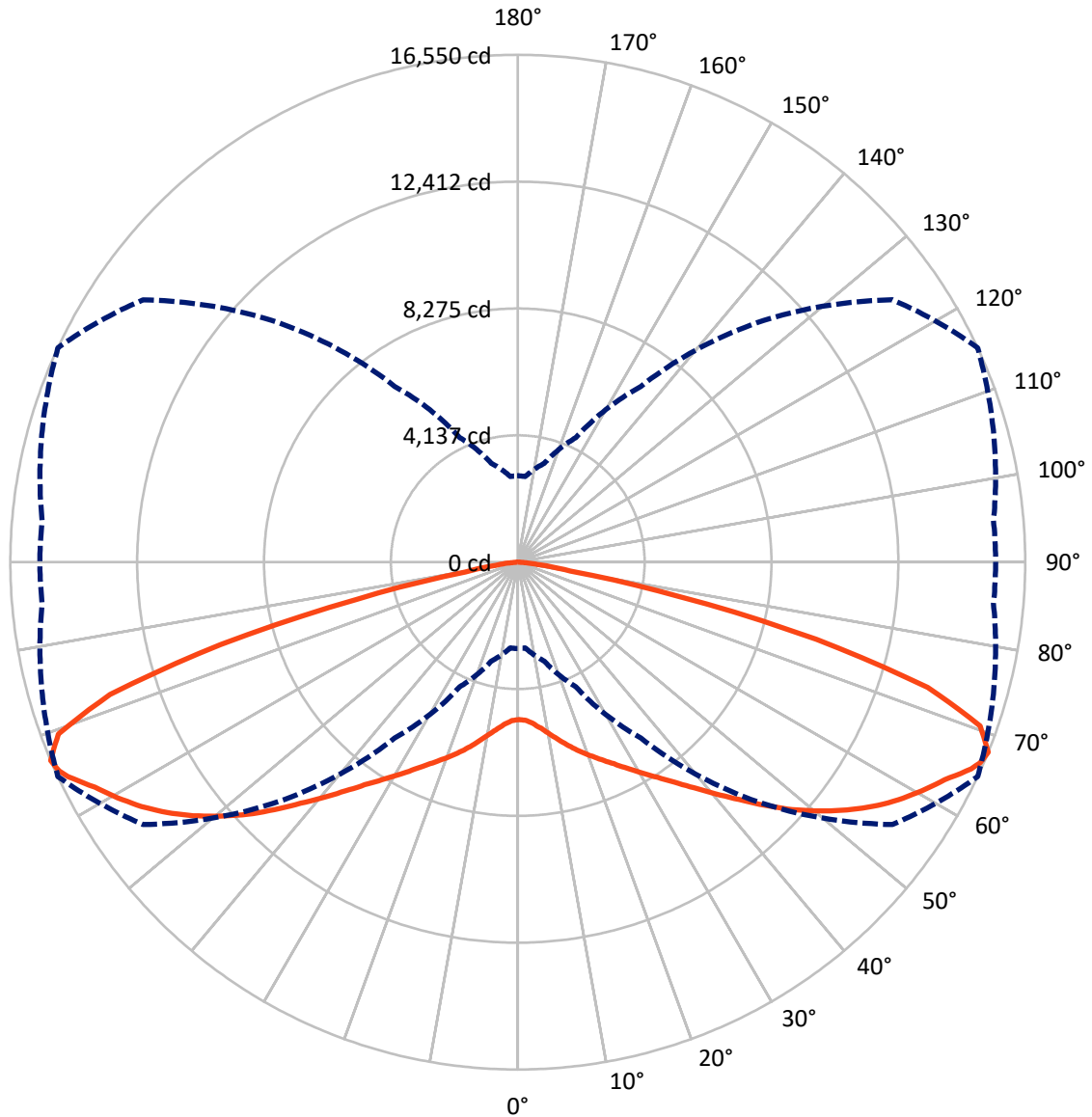
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24492.5	0.0	24492.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24492.5	0.0	24492.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	48985.0	0.0	48985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.0	1.0
10°-20°	1693.6	3.5
20°-30°	3312.9	6.8
30°-40°	5634.8	11.5
40°-50°	8918.1	18.2
50°-60°	11825.3	24.1
60°-70°	11154.9	22.8
70°-80°	5514.4	11.3
80°-90°	425.0	0.9
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°	48985.0	100.0
0°-180°	48985.0	100.0

Coefficient of Utilization



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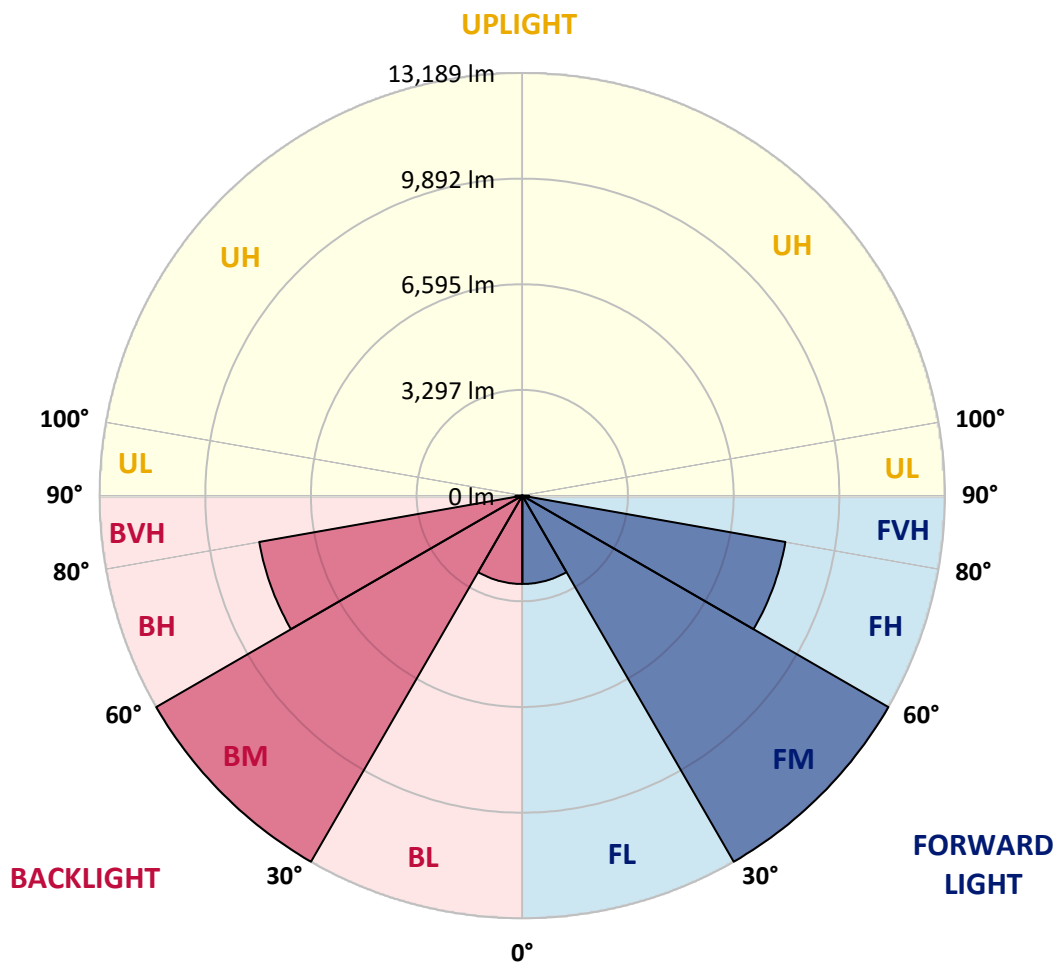
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2756.3	5.6			
FM	(30°-60°)	13189.1	26.9			
FH	(60°-80°)	8334.6	17.0			G4/12000
FVH	(80°-90°)	212.5	0.4			G2/225
BL	(0°-30°)	2756.3	5.6	B4/5000		
BM	(30°-60°)	13189.1	26.9	B5		
BH	(60°-80°)	8334.6	17.0	B5		G5
BVH	(80°-90°)	212.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5130.7	5130.7	5130.7	5130.7	5130.7	5130.7	5130.7	5130.7	5130.7	5130.7	5130.7
2.5°	5104.5	5109.8	5115.0	5122.9	5133.4	5149.1	5159.6	5167.5	5188.5	5191.1	5188.5
5°	5086.1	5091.4	5104.5	5128.1	5162.2	5209.5	5246.2	5290.8	5325.0	5348.6	5343.3
7.5°	5083.5	5094.0	5115.0	5164.9	5230.5	5311.8	5395.8	5471.9	5537.5	5590.0	5582.1
10°	5125.5	5138.6	5172.7	5246.2	5348.6	5466.7	5584.8	5697.6	5792.1	5860.3	5884.0
12.5°	5196.4	5206.9	5269.8	5380.1	5527.0	5674.0	5807.8	5946.9	6078.2	6193.6	6193.6
15°	5319.7	5338.1	5416.8	5576.9	5758.0	5928.6	6065.0	6212.0	6353.7	6484.9	6524.3
17.5°	5490.3	5516.5	5634.6	5839.3	6070.3	6227.8	6356.4	6477.1	6600.4	6726.4	6744.8
20°	5723.9	5750.1	5907.6	6154.3	6427.2	6616.2	6702.8	6731.6	6792.0	6912.7	6928.5
22.5°	6041.4	6067.7	6243.5	6521.7	6826.1	7030.8	7067.6	6999.3	6983.6	7078.1	7088.6
25°	6401.0	6424.6	6626.7	6925.9	7240.8	7463.9	7453.4	7285.4	7190.9	7248.7	7264.4
27.5°	6805.1	6839.2	7044.0	7353.6	7694.8	7891.6	7860.1	7616.1	7414.0	7403.5	7408.7
30°	7322.1	7358.9	7553.1	7849.6	8185.6	8366.7	8301.0	7973.0	7660.7	7555.7	7555.7
32.5°	7868.0	7959.9	8156.7	8466.4	8728.8	8860.1	8760.3	8366.7	7952.0	7805.0	7797.2
35°	8579.2	8629.1	8823.3	9125.1	9321.9	9424.3	9232.7	8810.2	8332.5	8159.3	8135.7
37.5°	9274.7	9316.7	9542.4	9831.1	10069.9	10064.7	9804.8	9337.7	8804.9	8610.7	8595.0
40°	9985.9	10030.5	10287.7	10552.8	10791.6	10770.6	10455.7	9933.4	9366.6	9148.7	9190.7
42.5°	10602.7	10652.5	10943.8	11321.8	11537.0	11531.7	11166.9	10579.0	9988.6	9794.3	9831.1
45°	11164.3	11208.9	11547.5	11980.5	12295.4	12334.8	11935.9	11313.9	10707.6	10458.3	10468.8
47.5°	11560.6	11644.6	11998.9	12494.9	12922.7	13061.8	12670.7	12061.8	11363.8	11103.9	11119.7
50°	11862.4	11914.9	12300.7	12864.9	13405.6	13694.2	13379.3	12754.7	12019.9	11744.3	11781.0
52.5°	11899.1	11962.1	12382.0	13032.9	13725.7	14164.0	14009.2	13431.8	12689.1	12405.6	12484.4
55°	11599.9	11636.7	12138.0	12927.9	13851.7	14513.1	14552.4	14061.7	13326.8	13111.6	13164.1
57.5°	10747.0	10841.5	11476.6	12437.1	13678.5	14699.4	14959.2	14633.8	13972.4	13759.8	13843.8
60°	9348.2	9442.7	10080.4	11298.1	13025.0	14612.8	15295.1	15140.3	14557.7	14387.1	14431.7
62.5°	7324.8	7316.9	8106.8	9600.1	11725.9	14187.6	15544.5	15628.4	15135.0	14919.8	14988.1
65°	4747.6	4771.2	5534.9	7143.7	9765.5	13106.4	15599.6	16250.4	15701.9	15376.5	15426.4
66°	3818.5	3889.4	4537.6	6020.4	8765.6	12397.8	15434.2	16434.1	15875.1	15481.5	15505.1
67.5°	2818.6	2805.5	3338.3	4482.5	6999.3	11051.4	14917.2	16549.6	16072.0	15575.9	15586.4
70°	1608.8	1606.1	1795.1	2461.7	4115.1	7781.4	12573.6	15995.9	16470.9	15917.1	15888.3
72.5°	1175.7	1167.9	1194.1	1359.5	2007.7	3928.8	8673.7	13980.3	16266.2	15862.0	15780.7
75°	986.8	981.5	976.3	997.3	1125.9	1779.4	4603.2	10056.8	14114.1	14888.4	14804.4
77.5°	805.7	805.7	808.3	803.1	808.3	936.9	1908.0	5390.6	8595.0	9594.9	9828.5
80°	629.9	627.2	671.9	653.5	611.5	601.0	845.1	1734.7	2852.7	2837.0	2341.0
82.5°	464.5	433.0	511.8	498.6	451.4	383.2	493.4	740.1	952.7	619.4	459.3
85°	293.9	291.3	362.2	330.7	275.6	181.1	236.2	317.6	393.7	238.8	194.2
87.5°	52.5	49.9	115.5	84.0	84.0	52.5	65.6	86.6	128.6	89.2	65.6
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)