

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: P456372

Luminaire Tested: **GALN-SA7C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456372
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-SA7C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 37140 lumens
Efficiency: N/A
Efficacy: 98.5 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

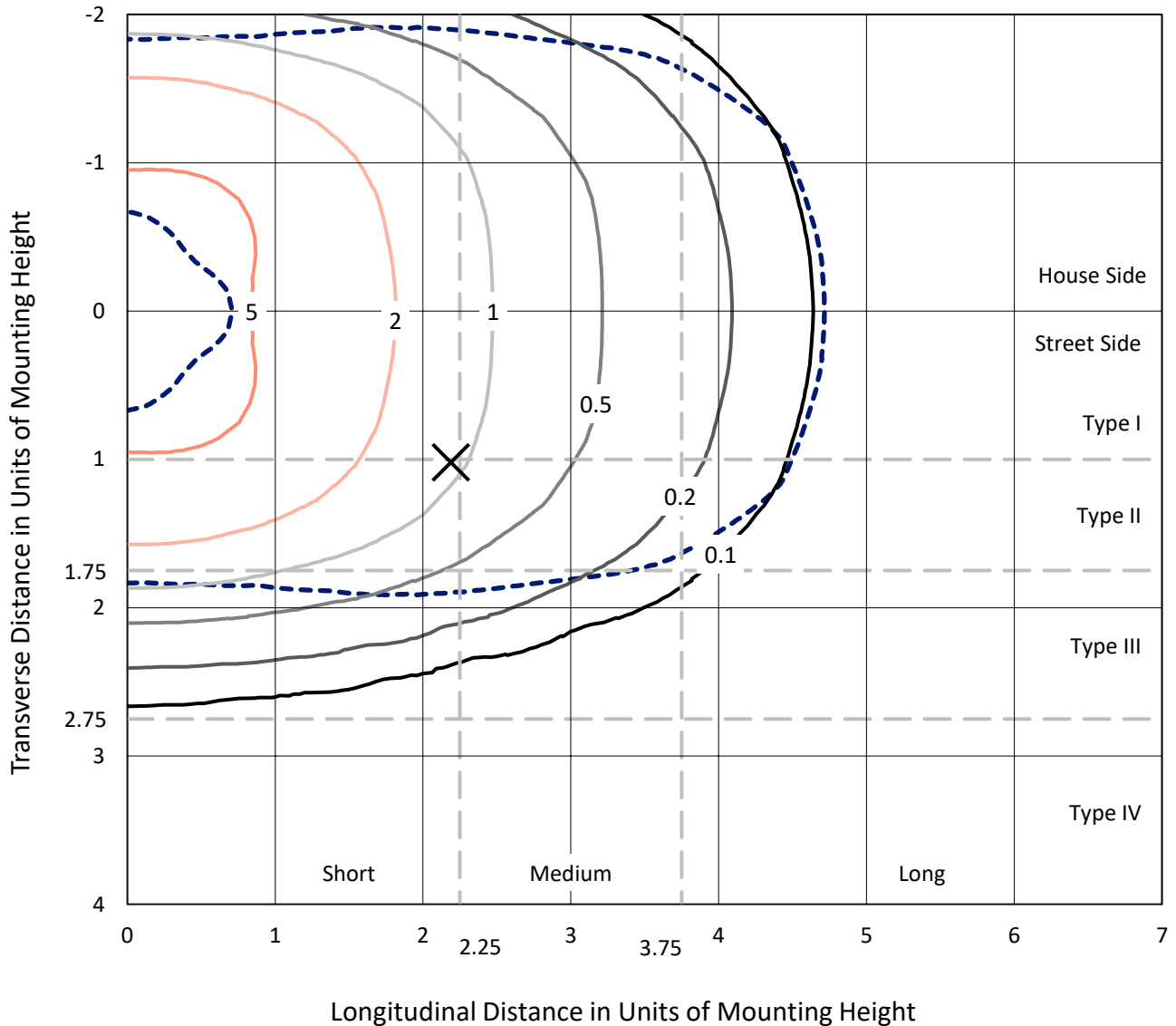
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

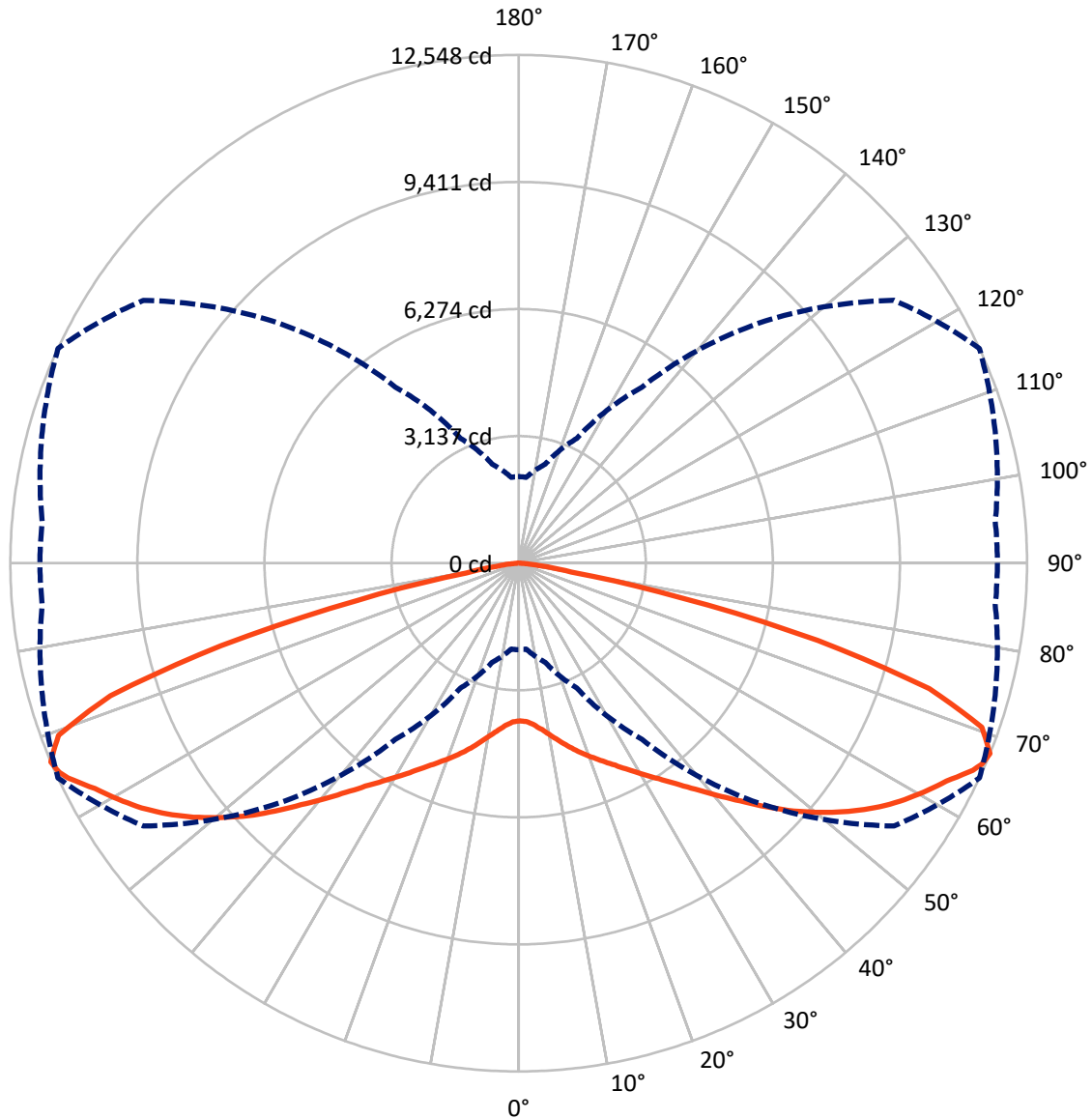
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	18570.0	0.0	18570.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18570.0	0.0	18570.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37140.0	0.0	37140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	1.0
10°-20°	1284.1	3.5
20°-30°	2511.8	6.8
30°-40°	4272.2	11.5
40°-50°	6761.7	18.2
50°-60°	8965.8	24.1
60°-70°	8457.5	22.8
70°-80°	4181.0	11.3
80°-90°	322.2	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°	37140.0	100.0
0°-180°	37140.0	100.0

Coefficient of Utilization



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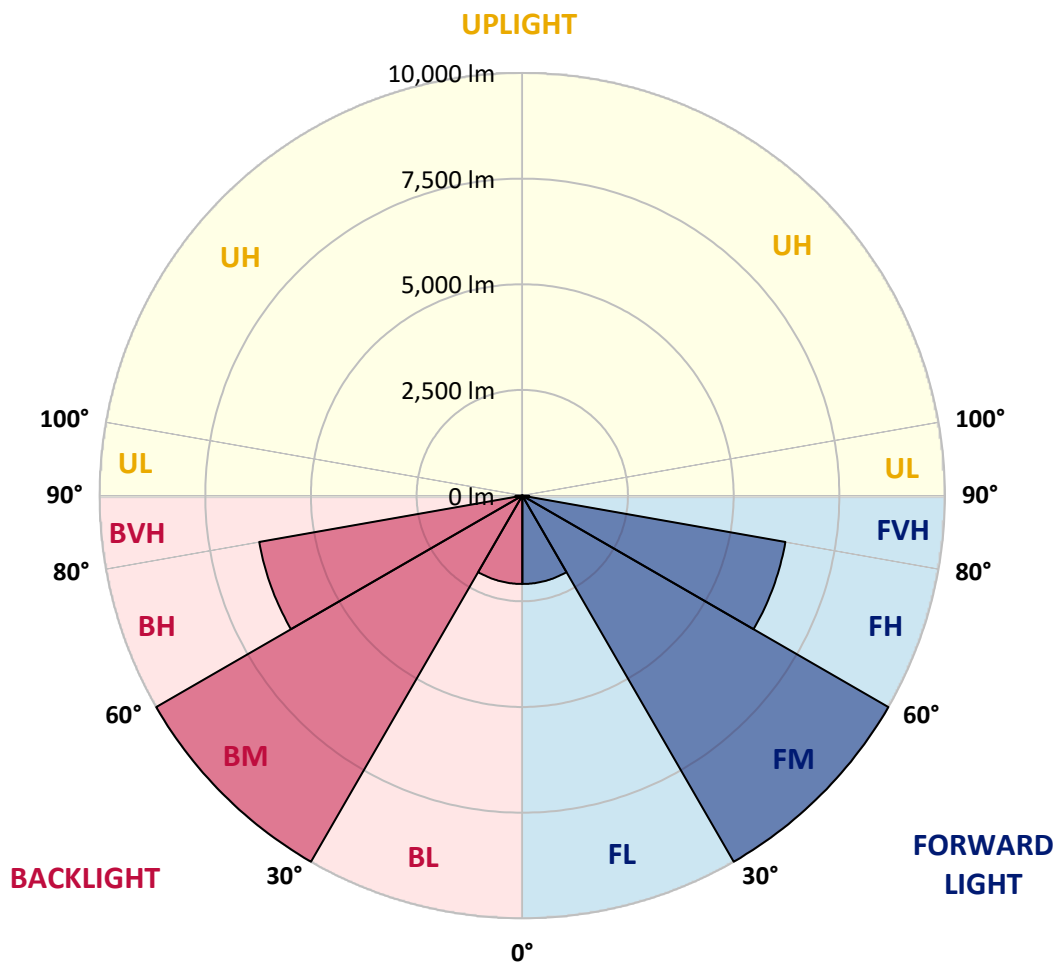
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2089.8	5.6			
FM	(30°-60°)	9999.8	26.9			
FH	(60°-80°)	6319.3	17.0			G3/7500
FVH	(80°-90°)	161.1	0.4			G2/225
BL	(0°-30°)	2089.8	5.6	B3/2500		
BM	(30°-60°)	9999.8	26.9	B5		
BH	(60°-80°)	6319.3	17.0	B5		G5
BVH	(80°-90°)	161.1	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°	3890.1	3890.1	3890.1	3890.1	3890.1	3890.1	3890.1	3890.1	3890.1	3890.1	3890.1
2.5°	3870.2	3874.2	3878.1	3884.1	3892.1	3904.0	3912.0	3917.9	3933.9	3935.9	3933.9
5°	3856.3	3860.2	3870.2	3888.1	3914.0	3949.8	3977.6	4011.5	4037.3	4055.2	4051.3
7.5°	3854.3	3862.2	3878.1	3916.0	3965.7	4027.4	4091.1	4148.8	4198.5	4238.3	4232.3
10°	3886.1	3896.1	3921.9	3977.6	4055.2	4144.8	4234.3	4319.9	4391.5	4443.3	4461.2
12.5°	3939.8	3947.8	3995.5	4079.1	4190.5	4302.0	4403.5	4508.9	4608.4	4696.0	4696.0
15°	4033.4	4047.3	4107.0	4228.4	4365.7	4495.0	4598.5	4709.9	4817.3	4916.8	4946.7
17.5°	4162.7	4182.6	4272.1	4427.3	4602.4	4721.8	4819.3	4910.9	5004.4	5099.9	5113.8
20°	4339.8	4359.7	4479.1	4666.1	4873.1	5016.3	5082.0	5103.9	5149.6	5241.2	5253.1
22.5°	4580.6	4600.5	4733.8	4944.7	5175.5	5330.7	5358.6	5306.8	5294.9	5366.5	5374.5
25°	4853.2	4871.1	5024.3	5251.1	5489.9	5659.0	5651.1	5523.7	5452.1	5495.9	5507.8
27.5°	5159.6	5185.5	5340.7	5575.5	5834.1	5983.4	5959.5	5774.4	5621.2	5613.3	5617.2
30°	5551.6	5579.4	5726.7	5951.5	6206.2	6343.5	6293.8	6045.1	5808.3	5728.7	5728.7
32.5°	5965.5	6035.1	6184.3	6419.1	6618.1	6717.6	6642.0	6343.5	6029.1	5917.7	5911.7
35°	6504.7	6542.5	6689.8	6918.6	7067.8	7145.4	7000.2	6679.8	6317.7	6186.3	6168.4
37.5°	7032.0	7063.8	7235.0	7453.8	7634.9	7630.9	7433.9	7079.8	6675.8	6528.6	6516.6
40°	7571.2	7605.1	7800.1	8001.0	8182.1	8166.2	7927.4	7531.4	7101.6	6936.5	6968.3
42.5°	8038.9	8076.7	8297.5	8584.1	8747.2	8743.2	8466.7	8020.9	7573.2	7426.0	7453.8
45°	8464.7	8498.5	8755.2	9083.5	9322.3	9352.1	9049.7	8578.1	8118.4	7929.4	7937.4
47.5°	8765.1	8828.8	9097.4	9473.5	9797.8	9903.3	9606.8	9145.2	8615.9	8418.9	8430.8
50°	8994.0	9033.8	9326.3	9754.1	10164.0	10382.9	10144.1	9670.5	9113.4	8904.4	8932.3
52.5°	9021.8	9069.6	9387.9	9881.4	10406.7	10739.0	10621.6	10183.9	9620.8	9405.9	9465.5
55°	8795.0	8822.8	9202.9	9801.8	10502.2	11003.7	11033.5	10661.4	10104.3	9941.1	9980.9
57.5°	8148.3	8219.9	8701.5	9429.7	10370.9	11145.0	11341.9	11095.2	10593.8	10432.6	10496.3
60°	7087.7	7159.4	7642.9	8566.2	9875.4	11079.3	11596.6	11479.2	11037.5	10908.2	10942.0
62.5°	5553.6	5547.6	6146.5	7278.7	8890.5	10756.9	11785.7	11849.3	11475.3	11312.1	11363.8
65°	3599.6	3617.5	4196.5	5416.3	7404.1	9937.1	11827.5	12320.9	11905.1	11658.3	11696.1
66°	2895.2	2948.9	3440.4	4564.6	6646.0	9399.9	11702.1	12460.2	12036.4	11737.9	11755.8
67.5°	2137.1	2127.1	2531.0	3398.6	5306.8	8379.1	11310.1	12547.8	12185.6	11809.5	11817.5
70°	1219.8	1217.8	1361.0	1866.4	3120.0	5899.8	9533.2	12127.9	12488.1	12068.2	12046.3
72.5°	891.4	885.5	905.4	1030.7	1522.2	2978.8	6576.3	10599.7	12332.9	12026.4	11964.8
75°	748.2	744.2	740.2	756.1	853.6	1349.1	3490.1	7625.0	10701.2	11288.2	11224.5
77.5°	610.9	610.9	612.9	608.9	612.9	710.4	1446.6	4087.1	6516.6	7274.8	7451.9
80°	477.6	475.6	509.4	495.5	463.6	455.7	640.7	1315.3	2162.9	2151.0	1774.9
82.5°	352.2	328.3	388.0	378.1	342.2	290.5	374.1	561.1	722.3	469.6	348.2
85°	222.9	220.9	274.6	250.7	208.9	137.3	179.1	240.8	298.5	181.1	147.2
87.5°	39.8	37.8	87.6	63.7	63.7	39.8	49.7	65.7	97.5	67.7	49.7
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)