

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: P458152

Luminaire Tested: **GALN-SA9C-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63623 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

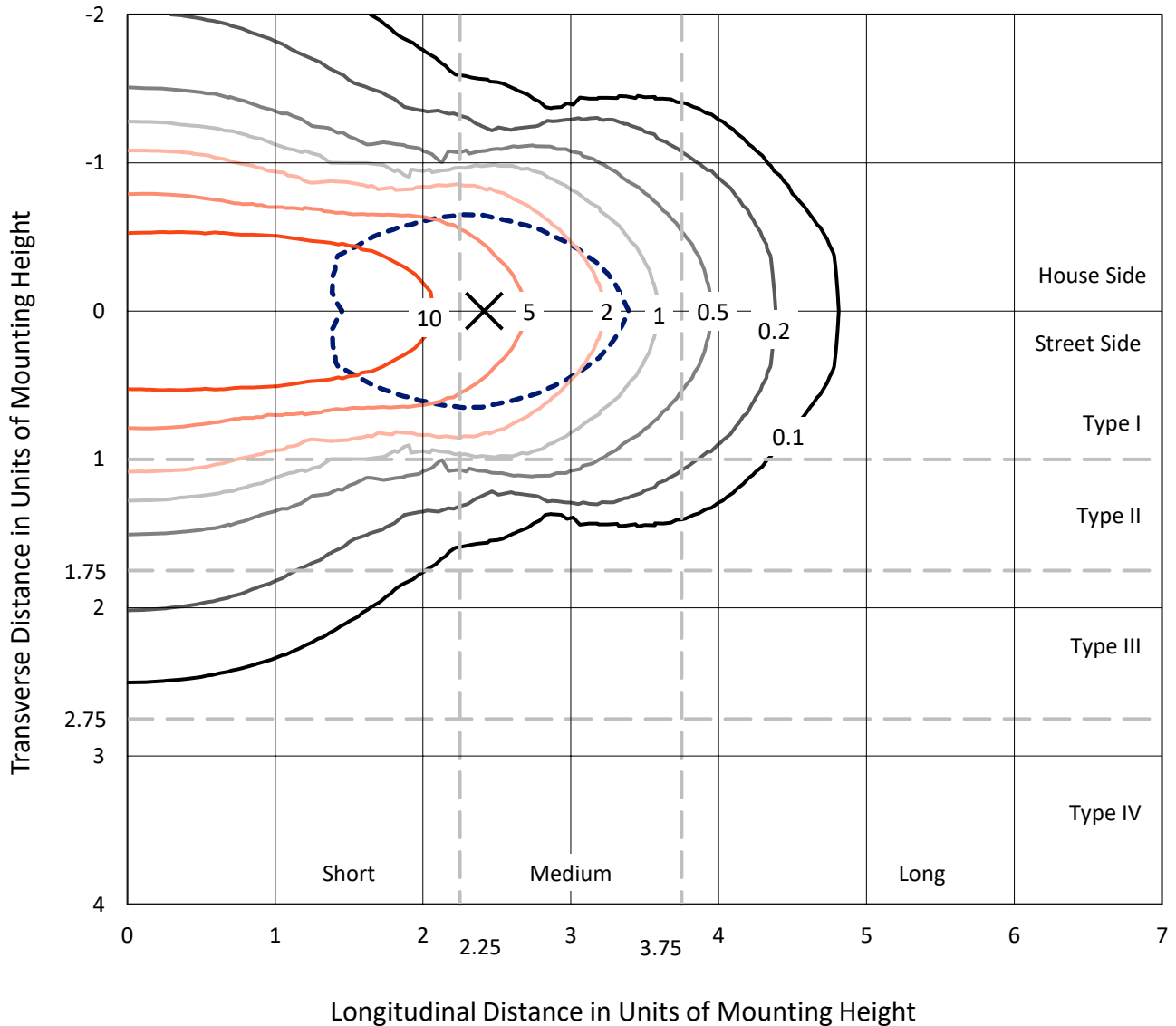
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

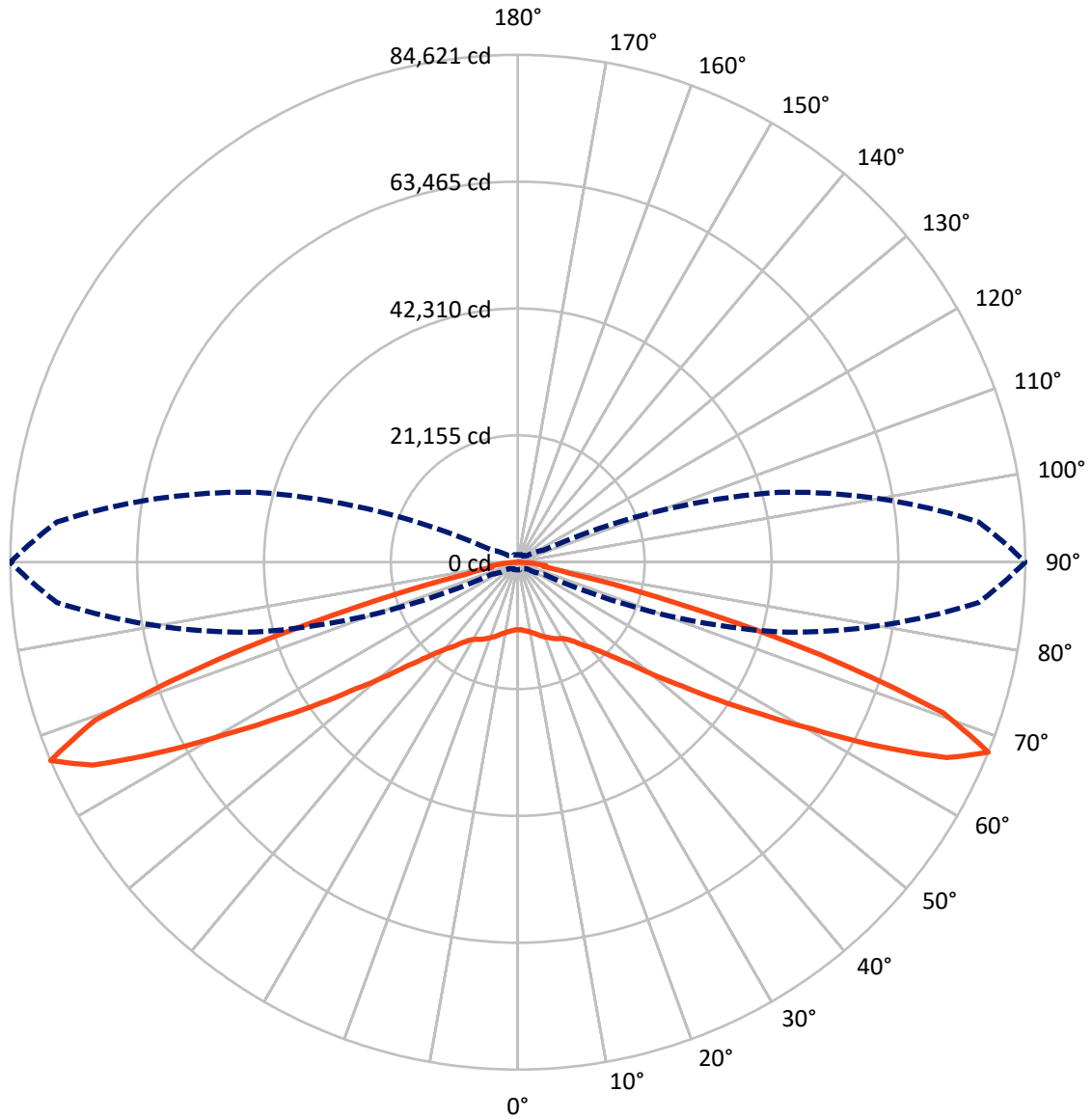
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31811.5	0.0	31811.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31811.5	0.0	31811.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	63623.0	0.0	63623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.9	1.8
10°-20°	3592.8	5.6
20°-30°	6013.5	9.5
30°-40°	8146.7	12.8
40°-50°	10319.1	16.2
50°-60°	12891.1	20.3
60°-70°	15152.9	23.8
70°-80°	5796.7	9.1
80°-90°	587.3	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°	63623.0	100.0
0°-180°	63623.0	100.0

Coefficient of Utilization



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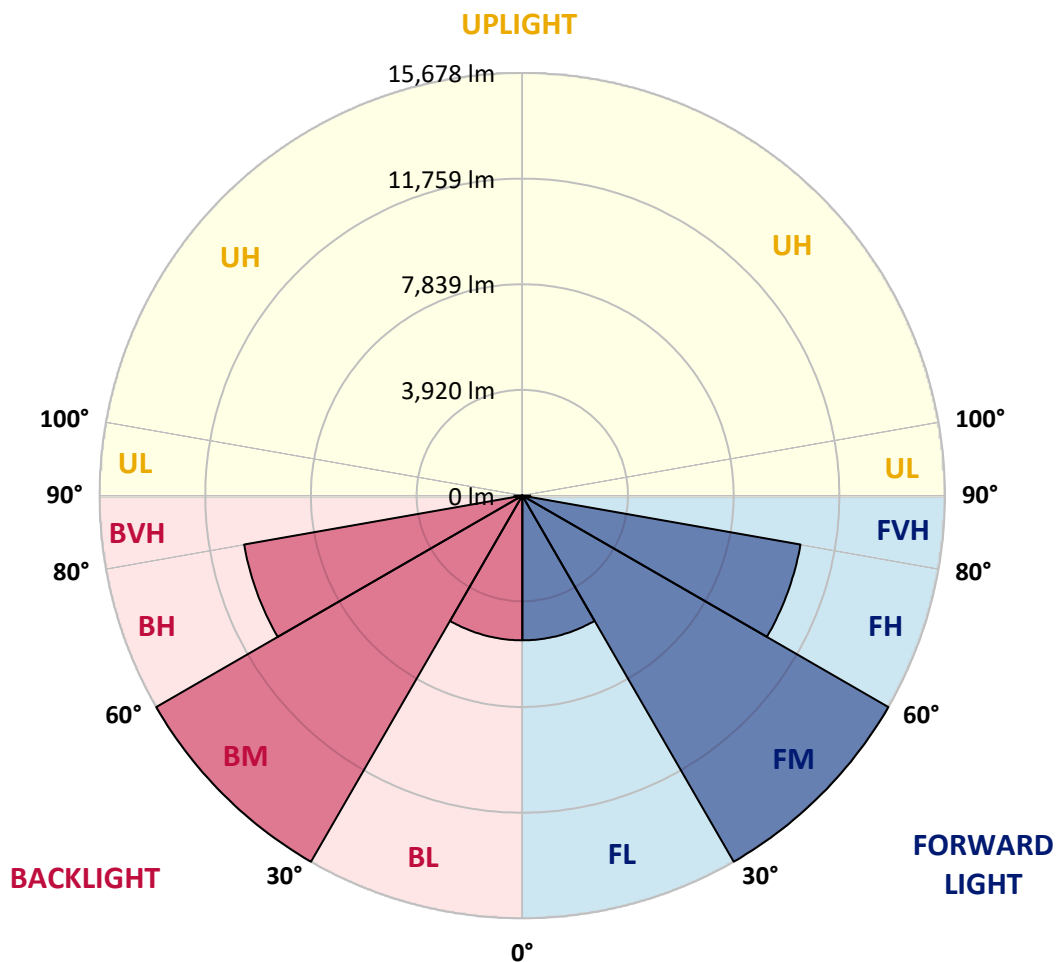
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5364.6	8.4			
FM	(30°-60°)	15678.4	24.6			
FH	(60°-80°)	10474.8	16.5			G4/12000
FVH	(80°-90°)	293.6	0.5			G3/500
BL	(0°-30°)	5364.6	8.4	B5		
BM	(30°-60°)	15678.4	24.6	B5		
BH	(60°-80°)	10474.8	16.5	B5		G5
BVH	(80°-90°)	293.6	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11263.3	11263.3	11263.3	11263.3	11263.3	11263.3	11263.3	11263.3	11263.3	11263.3	11263.3
2.5°	11407.7	11400.7	11404.2	11400.7	11411.2	11404.2	11361.9	11326.7	11298.5	11302.0	11291.4
5°	11650.8	11654.3	11657.8	11640.2	11664.9	11650.8	11583.9	11527.5	11471.1	11450.0	11442.9
7.5°	11851.6	11869.2	11879.8	11897.4	11939.7	11939.7	11904.5	11823.4	11700.1	11629.7	11626.1
10°	12052.4	12066.5	12098.2	12154.6	12225.0	12292.0	12277.9	12168.7	12010.1	11890.4	11862.2
12.5°	12122.9	12140.5	12246.2	12408.2	12566.8	12697.1	12697.1	12609.1	12404.7	12221.5	12168.7
15°	11876.3	11908.0	12098.2	12443.5	12859.2	13144.6	13208.0	13084.7	12866.2	12584.4	12521.0
17.5°	11386.6	11464.1	11742.4	12253.2	12943.8	13535.6	13718.8	13658.9	13377.1	13017.7	12943.8
20°	10861.6	10946.2	11242.1	11918.5	12873.3	13764.6	14296.6	14310.7	13961.9	13440.5	13331.3
22.5°	10283.8	10347.3	10727.7	11520.4	12661.9	13817.5	14793.4	15036.5	14564.4	13863.3	13708.3
25°	9635.6	9706.1	10104.2	10960.3	12263.8	13757.6	15247.8	15783.3	15195.0	14314.2	14116.9
27.5°	9015.5	9043.7	9470.0	10340.2	11738.9	13602.6	15582.5	16470.3	15892.6	14687.7	14437.5
30°	8420.1	8487.1	8864.0	9723.7	11136.4	13299.6	15871.4	17252.5	16643.0	15078.7	14758.1
32.5°	7789.5	7870.5	8279.2	9149.4	10534.0	12845.1	16047.6	18108.6	17689.3	15712.9	15371.2
35°	7183.5	7236.4	7648.6	8494.1	9945.6	12316.6	16079.3	19073.9	19038.7	16674.7	16220.2
37.5°	6563.5	6641.0	7056.7	7867.0	9322.0	11756.5	15920.7	20099.1	20666.3	18009.9	17520.2
40°	5968.1	6035.0	6443.7	7261.0	8613.9	11073.0	15543.8	21036.2	22565.3	19383.9	18689.9
42.5°	5319.8	5337.4	5784.9	6616.3	7919.9	10280.3	15001.2	21871.2	24682.6	21226.5	20363.3
45°	4583.5	4629.3	5045.0	5862.4	7123.6	9392.5	14264.9	22561.7	27367.2	23780.7	22604.0
47.5°	3847.2	3885.9	4266.4	5073.2	6253.4	8374.3	13130.5	23167.7	30122.2	27025.5	25482.4
50°	3128.5	3149.6	3459.7	4174.8	5274.0	7303.3	11724.8	23361.5	33236.6	31619.5	29650.1
52.5°	2473.2	2504.9	2740.9	3301.1	4227.7	6038.5	10206.3	22882.3	36872.4	37066.2	34290.0
55°	2004.6	2015.2	2191.3	2603.5	3304.6	4713.9	8374.3	21547.1	40783.0	44045.4	40504.7
57.5°	1726.3	1733.3	1832.0	2061.0	2543.7	3554.8	6496.5	19021.1	44295.5	52222.5	47670.6
60°	1567.8	1571.3	1627.7	1761.5	2015.2	2726.9	4654.0	15455.7	47762.2	61322.5	56577.0
62.5°	1469.1	1469.1	1507.9	1581.9	1705.2	2092.7	3371.6	11150.5	50136.8	70556.5	67554.8
65°	1374.0	1374.0	1402.2	1455.0	1522.0	1712.2	2490.8	7271.6	50076.9	77282.0	78596.1
67.5°	1264.8	1264.8	1285.9	1338.8	1377.5	1472.6	1923.6	4763.2	44982.5	77134.1	84620.6
70°	1134.4	1134.4	1162.6	1208.4	1240.1	1300.0	1518.4	3258.8	33046.4	65860.3	75256.3
72.5°	1004.1	1007.6	1025.2	1071.0	1095.7	1130.9	1261.3	2282.9	20271.7	44845.1	52620.6
75°	859.6	866.7	884.3	930.1	951.2	965.3	1064.0	1627.7	10255.7	24178.8	27529.3
77.5°	694.0	708.1	718.7	768.0	782.1	803.3	877.2	1176.7	4502.5	8687.9	8765.4
80°	507.3	524.9	556.6	602.4	613.0	627.1	669.4	835.0	2039.9	3967.0	4308.7
82.5°	373.4	398.1	359.4	419.2	419.2	401.6	472.1	560.2	937.1	3928.2	4699.8
85°	204.3	207.9	186.7	214.9	229.0	225.5	250.1	274.8	454.5	2621.2	2702.2
87.5°	49.3	52.8	56.4	66.9	81.0	81.0	88.1	77.5	148.0	849.1	486.2
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)