

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: P458137

Luminaire Tested: **GALN-SA9C-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66515 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

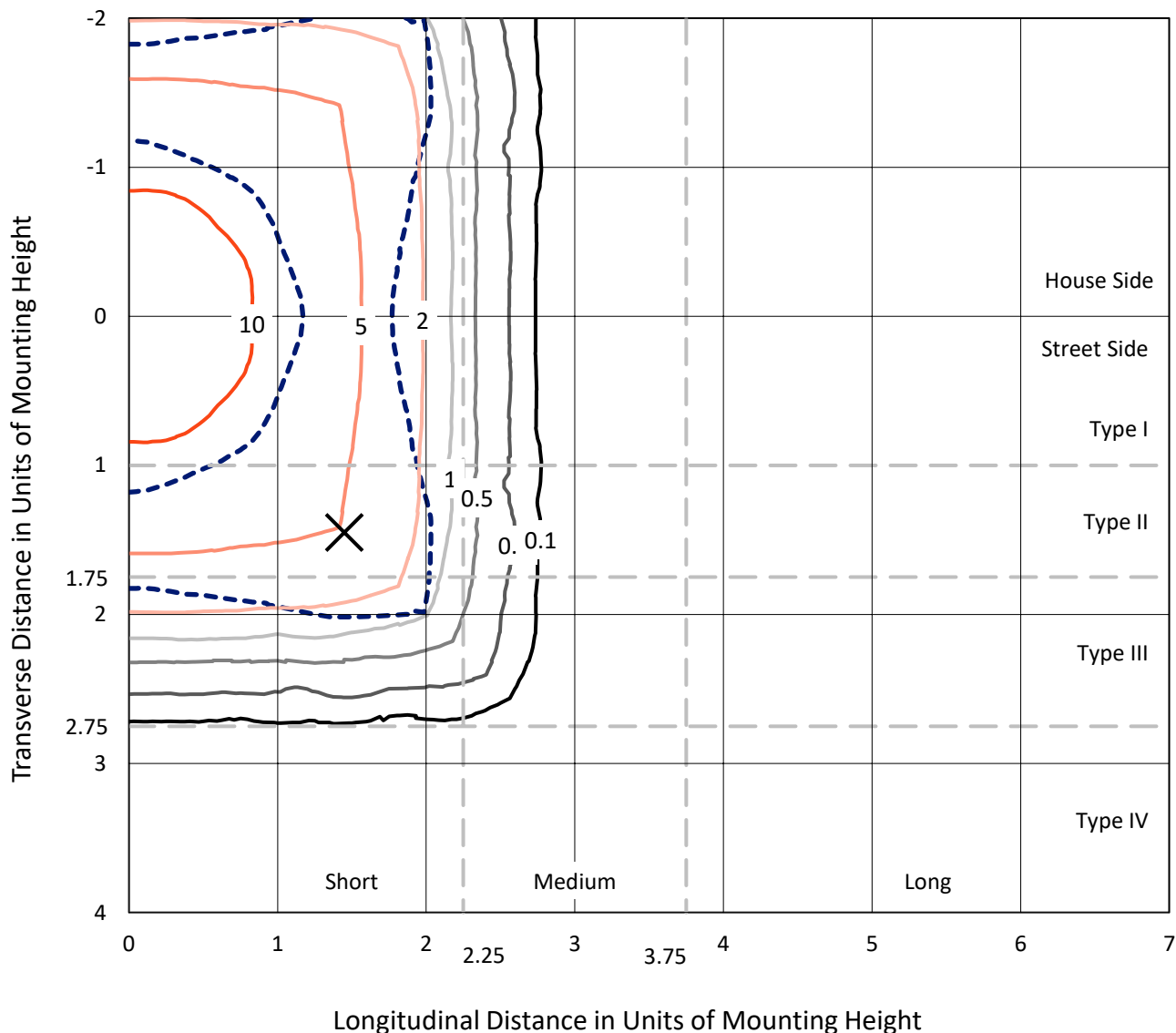
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

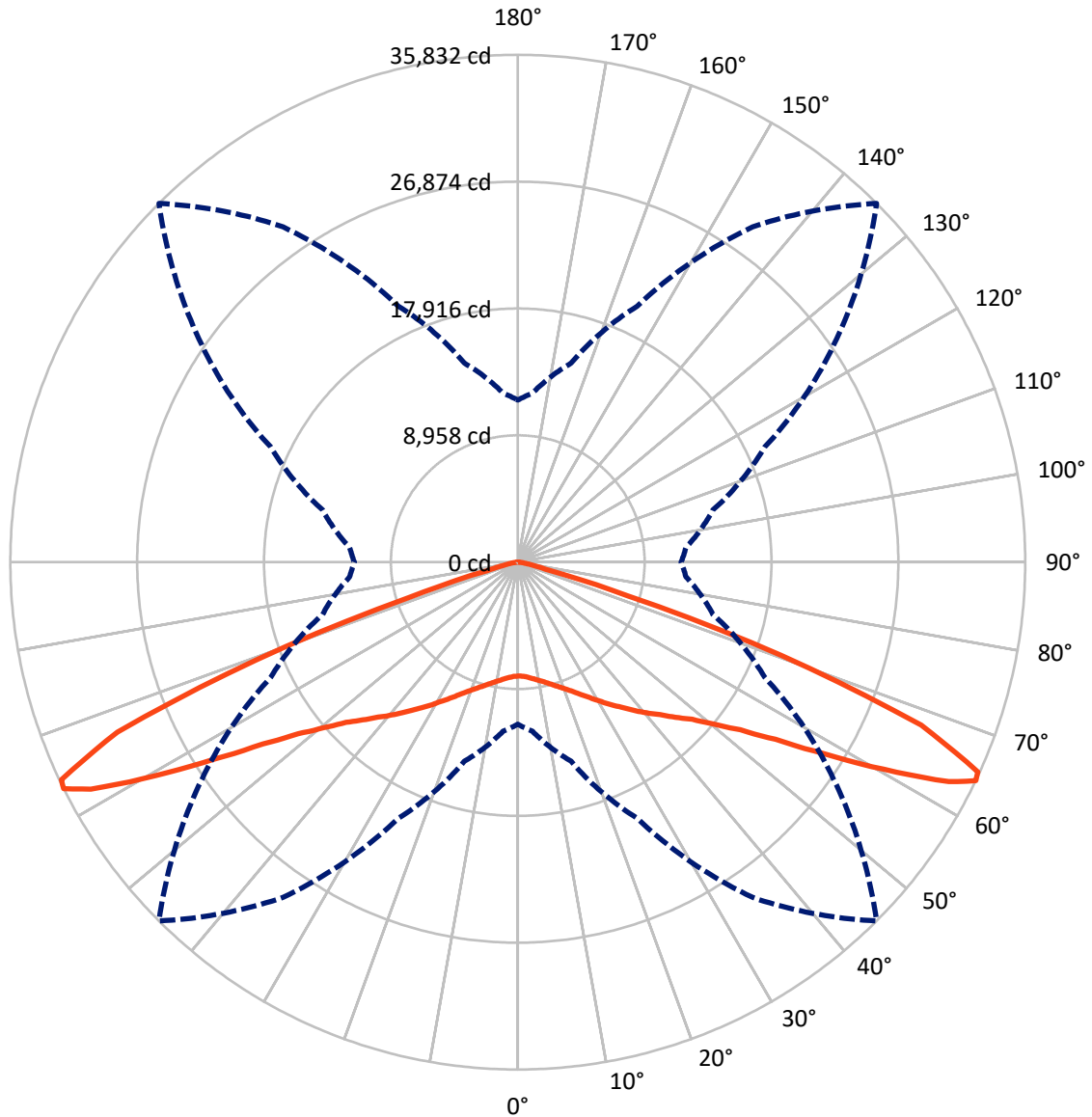
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33257.5	0.0	33257.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33257.5	0.0	33257.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	66515.0	0.0	66515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.8	1.2
10°-20°	2547.7	3.8
20°-30°	4814.4	7.2
30°-40°	7973.2	12.0
40°-50°	12447.4	18.7
50°-60°	19243.4	28.9
60°-70°	16593.4	24.9
70°-80°	1880.5	2.8
80°-90°	225.3	0.3
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°	66515.0	100.0
0°-180°	66515.0	100.0

Coefficient of Utilization



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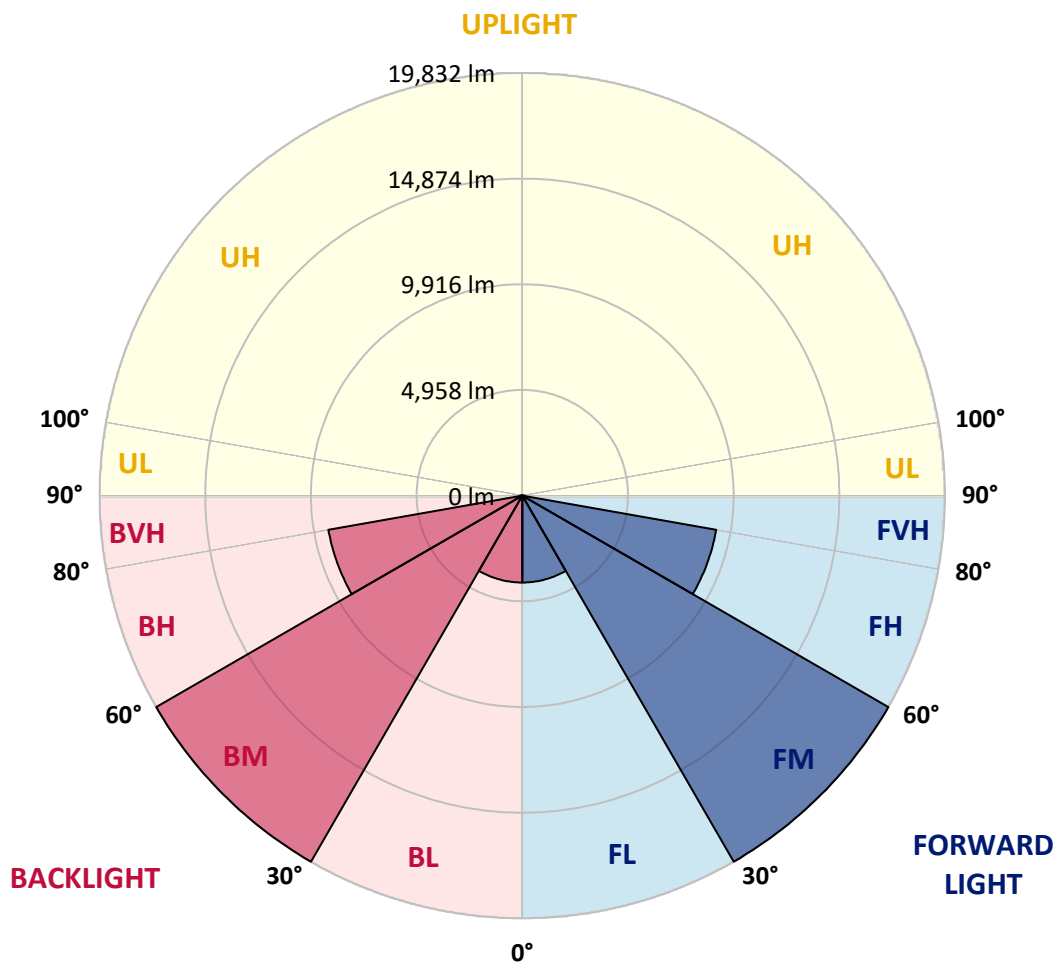
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4075.9	6.1			
FM	(30°-60°)	19832.0	29.8			
FH	(60°-80°)	9236.9	13.9			G4/12000
FVH	(80°-90°)	112.6	0.2			G2/225
BL	(0°-30°)	4075.9	6.1	B4/5000		
BM	(30°-60°)	19832.0	29.8	B5		
BH	(60°-80°)	9236.9	13.9	B5		G4/12000
BVH	(80°-90°)	112.6	0.2			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°	8039.5	8039.5	8039.5	8039.5	8039.5	8039.5	8039.5	8039.5	8039.5	8039.5	8039.5
2.5°	8071.2	8088.8	8074.7	8071.2	8067.6	8067.6	8067.6	8071.2	8085.3	8095.8	8088.8
5°	8173.3	8187.4	8180.4	8176.9	8173.3	8173.3	8169.8	8166.3	8176.9	8176.9	8173.3
7.5°	8300.2	8317.8	8310.7	8317.8	8321.3	8324.8	8307.2	8293.1	8289.6	8300.2	8293.1
10°	8472.8	8486.9	8490.4	8493.9	8501.0	8497.4	8476.3	8451.6	8448.1	8444.6	8441.1
12.5°	8666.5	8677.1	8680.6	8694.7	8705.3	8708.8	8684.2	8663.0	8627.8	8634.8	8620.7
15°	8885.0	8906.1	8902.6	8923.7	8951.9	8959.0	8934.3	8899.1	8867.4	8849.7	8839.2
17.5°	9152.7	9166.8	9159.8	9180.9	9216.1	9233.7	9212.6	9166.8	9135.1	9096.4	9075.2
20°	9469.8	9494.4	9501.5	9501.5	9533.2	9550.8	9519.1	9505.0	9455.7	9427.5	9409.9
22.5°	9829.1	9839.7	9860.8	9882.0	9913.7	9906.6	9896.1	9874.9	9829.1	9804.5	9776.3
25°	10234.3	10244.8	10297.7	10343.5	10354.1	10347.0	10332.9	10322.4	10280.1	10223.7	10202.6
27.5°	10706.4	10727.5	10798.0	10840.2	10840.2	10843.8	10815.6	10850.8	10759.2	10692.3	10685.2
30°	11298.2	11312.3	11372.2	11414.5	11393.3	11375.7	11368.7	11403.9	11305.3	11185.5	11157.3
32.5°	11883.0	11932.4	11985.2	12076.8	12002.8	11971.1	11964.1	11988.7	11876.0	11742.1	11703.4
35°	12510.1	12545.4	12644.0	12721.5	12654.6	12580.6	12612.3	12689.8	12555.9	12376.3	12369.2
37.5°	13204.2	13235.9	13362.7	13443.7	13394.4	13267.6	13320.4	13412.0	13278.1	13056.2	13010.4
40°	13926.4	13993.3	14151.8	14236.4	14155.4	13986.3	14084.9	14183.5	14063.8	13806.6	13704.4
42.5°	14736.7	14842.3	15071.3	15113.6	14958.6	14729.6	14902.2	15060.8	14976.2	14680.3	14641.5
45°	15684.3	15747.8	16029.6	16121.2	15906.3	15620.9	15835.8	16124.7	16061.3	15719.6	15645.6
47.5°	16744.8	16804.6	17097.1	17234.5	16963.2	16579.2	16966.7	17343.7	17304.9	16938.5	16903.3
50°	17998.9	18013.0	18418.2	18573.2	18301.9	17970.8	18316.0	18784.6	18629.6	18161.0	18154.0
52.5°	19372.9	19390.5	19901.4	20200.8	20049.3	19675.9	20084.5	20369.9	19975.3	19362.3	19316.5
55°	20563.7	20651.7	21349.3	22145.5	22353.4	22082.1	22205.4	22071.5	21099.2	20239.6	20105.7
57.5°	21049.8	21222.5	22282.9	23769.6	25122.4	25524.0	24572.8	23297.5	21546.6	20331.2	20200.8
60°	19862.6	20049.3	21694.6	24516.5	27969.0	29712.9	27038.9	23505.4	20528.4	18819.8	18615.5
62.5°	15906.3	15959.1	18379.4	22758.5	29628.3	34144.8	28078.2	21733.3	17565.6	15244.0	15162.9
64°	11446.2	11988.7	14553.5	19954.2	28902.6	35832.3	27479.3	19249.6	14268.1	11918.3	11537.8
65°	8560.9	8708.8	11731.5	17040.7	27623.7	35705.5	26316.7	16875.1	11816.1	9121.0	8698.3
67.5°	3234.1	3251.7	4329.8	8493.9	19665.3	30720.4	20084.5	9180.9	4978.0	3600.5	3470.1
70°	1342.3	1366.9	1588.9	2857.1	8451.6	19725.2	9684.7	3311.6	1821.4	1476.1	1455.0
72.5°	982.9	997.0	1063.9	1268.3	2600.0	8099.3	3184.8	1405.7	1067.5	954.7	944.2
75°	771.5	778.6	827.9	933.6	1211.9	2244.1	1324.6	965.3	813.8	732.8	725.7
77.5°	588.3	606.0	641.2	711.6	813.8	1063.9	877.2	722.2	627.1	560.2	549.6
80°	405.1	426.3	493.2	521.4	546.1	690.5	598.9	546.1	489.7	408.7	384.0
82.5°	250.1	264.2	331.2	355.8	345.3	387.5	384.0	391.1	348.8	253.7	236.0
85°	130.4	137.4	179.7	186.7	172.6	158.5	197.3	229.0	214.9	144.4	140.9
87.5°	28.2	31.7	38.8	35.2	38.8	38.8	49.3	74.0	77.5	49.3	45.8
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)