

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: P651053

Luminaire Tested: **GALN-SA8C-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651053
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-SA8C-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 49826.7 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

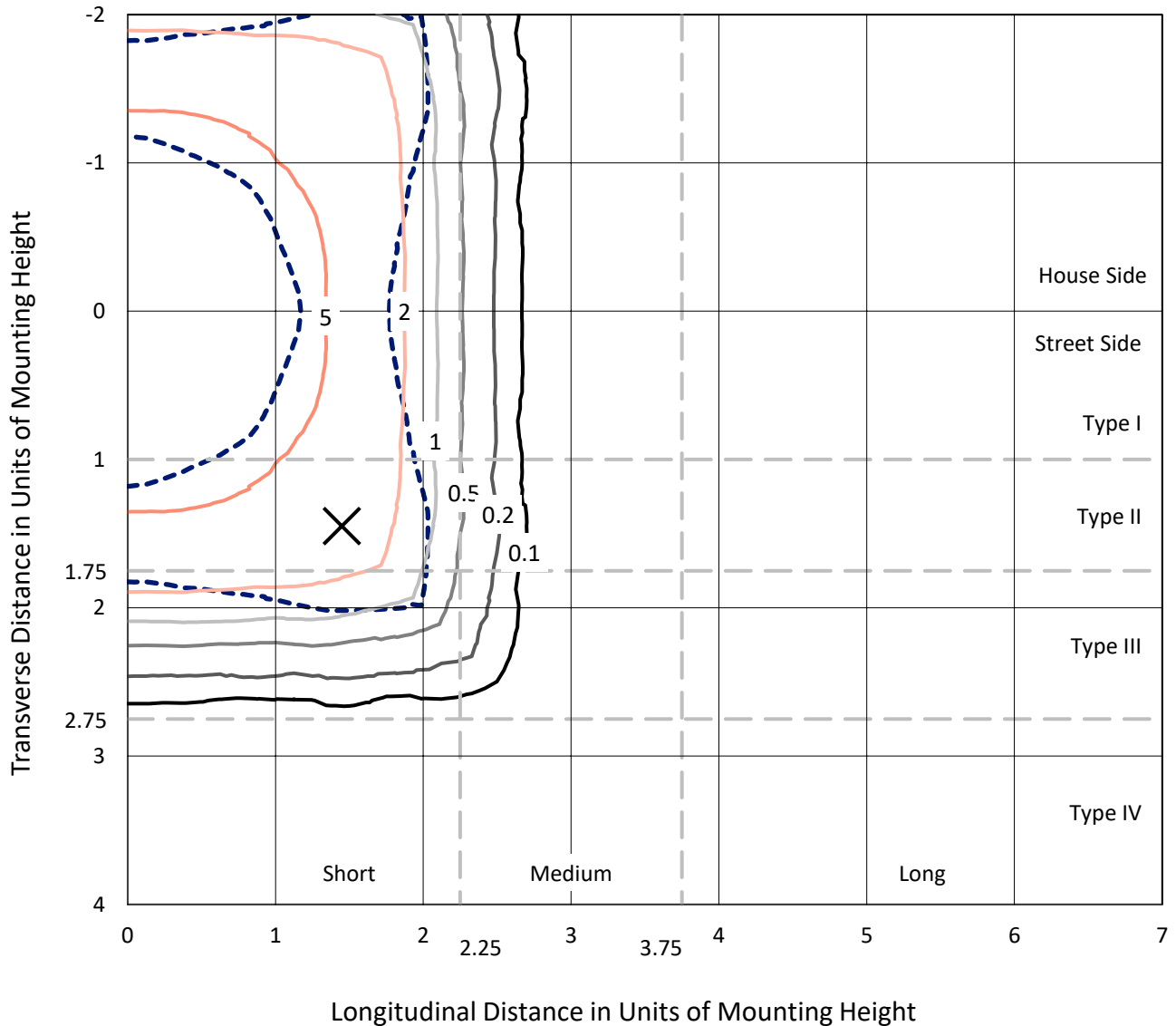
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

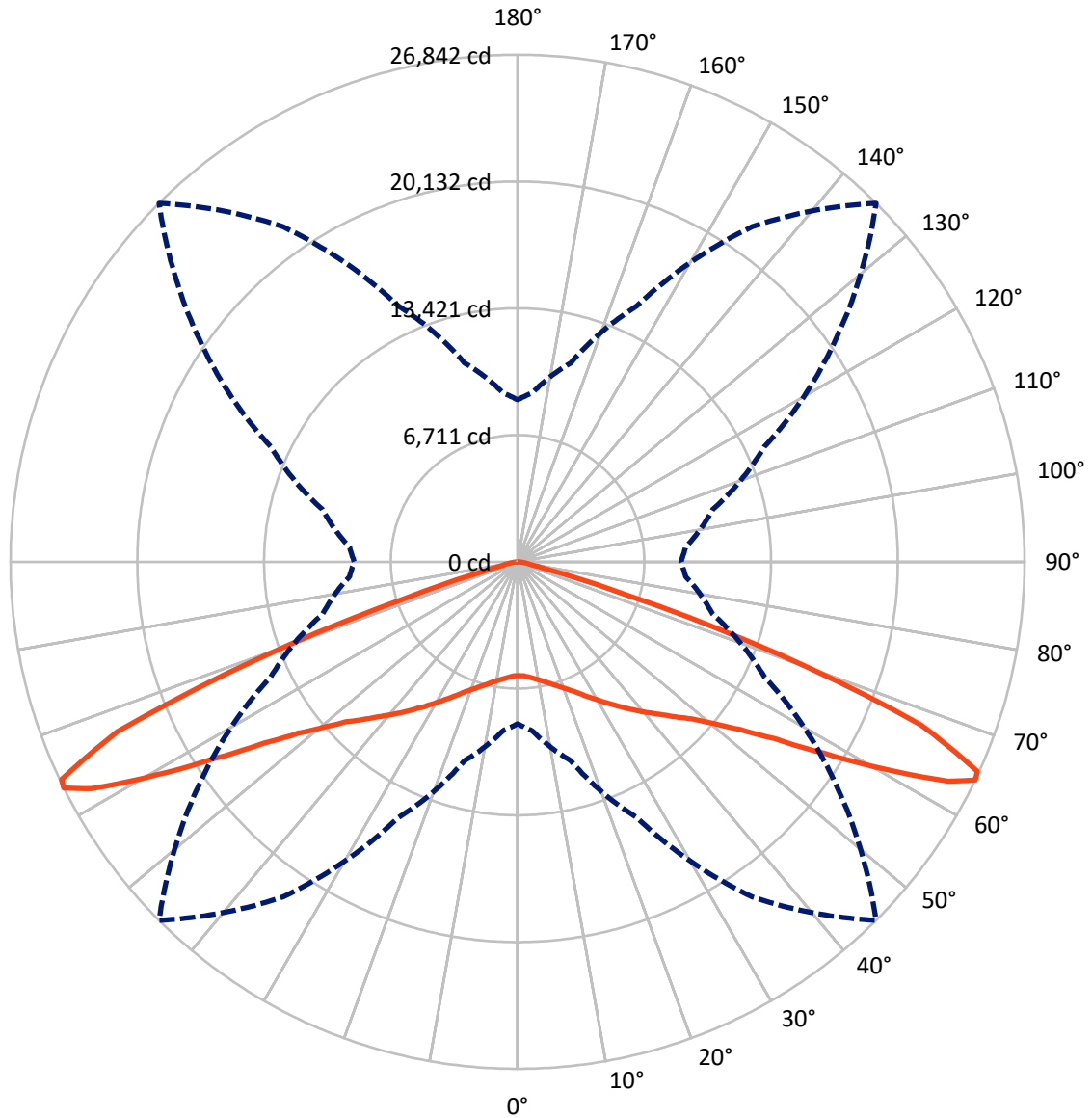
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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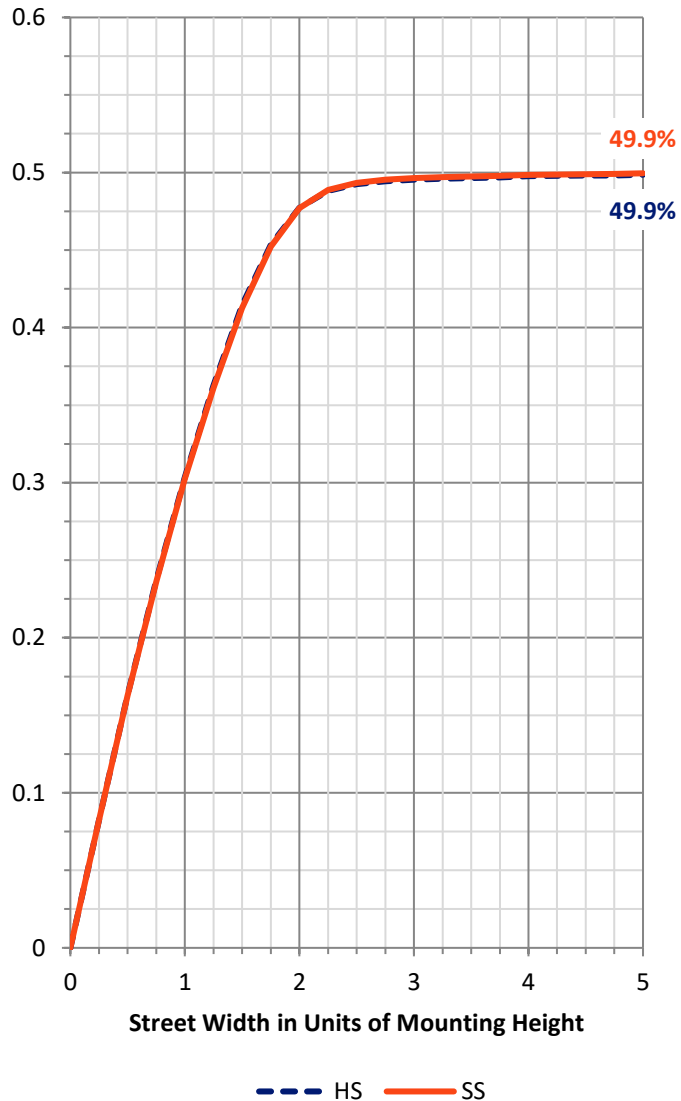
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24913.4	0.0	24913.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24913.4	0.0	24913.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	49826.7	0.0	49826.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.7	1.2
10°-20°	1908.5	3.8
20°-30°	3606.5	7.2
30°-40°	5972.8	12.0
40°-50°	9324.4	18.7
50°-60°	14415.3	28.9
60°-70°	12430.2	24.9
70°-80°	1408.7	2.8
80°-90°	168.8	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°	49826.7	100.0
0°-180°	49826.7	100.0

Coefficient of Utilization

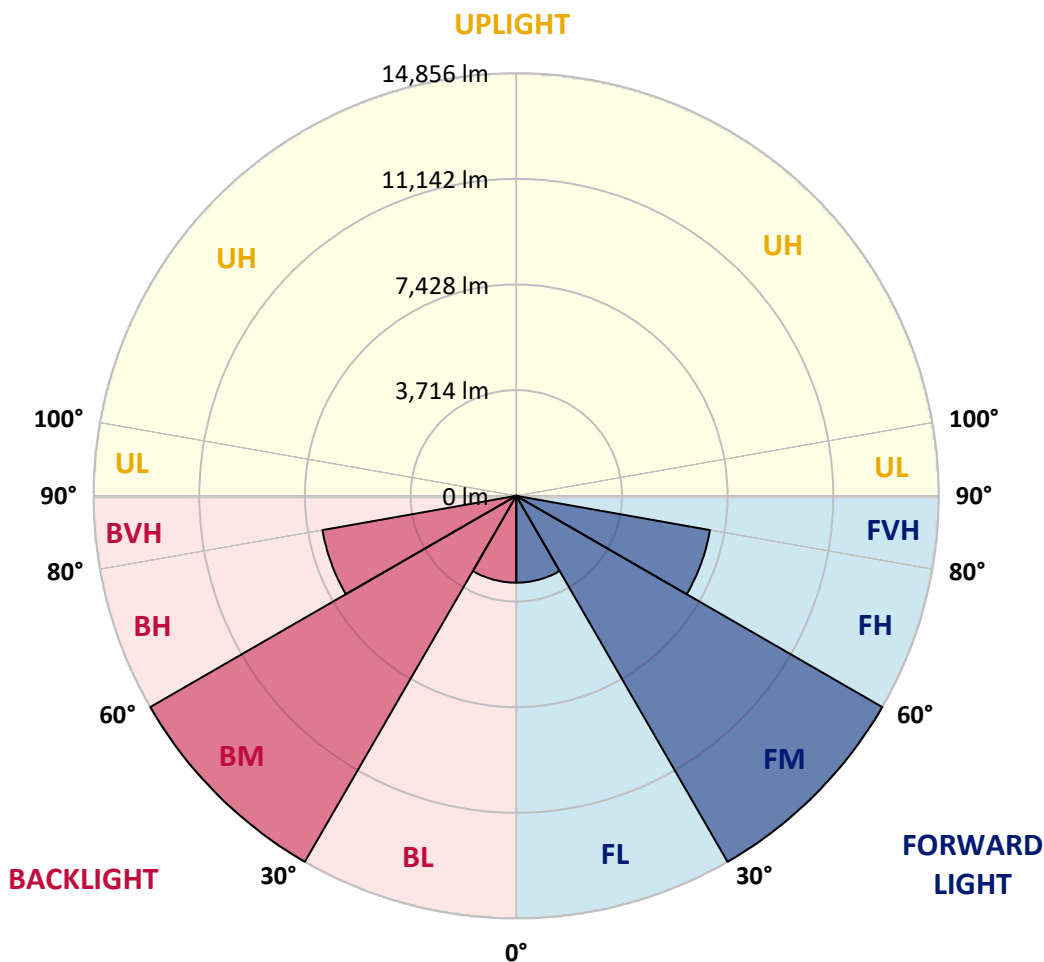


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3053.3	6.1			
FM (30°-60°)	14856.3	29.8			
FH (60°-80°)	6919.4	13.9			G3/7500
FVH (80°-90°)	84.4	0.2			G1/100
BL (0°-30°)	3053.3	6.1	B4/5000		
BM (30°-60°)	14856.3	29.8	B5		
BH (60°-80°)	6919.4	13.9	B5		G3/7500
BVH (80°-90°)	84.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6022.4	6022.4	6022.4	6022.4	6022.4	6022.4	6022.4	6022.4	6022.4	6022.4	6022.4
2.5°	6046.1	6059.3	6048.8	6046.1	6043.5	6043.5	6043.5	6046.1	6056.7	6064.6	6059.3
5°	6122.6	6133.2	6127.9	6125.3	6122.6	6125.3	6120.0	6117.4	6125.3	6125.3	6122.6
7.5°	6217.7	6230.9	6225.6	6230.9	6233.5	6236.2	6223.0	6212.4	6209.8	6217.7	6212.4
10°	6347.0	6357.5	6360.2	6362.8	6368.1	6365.4	6349.6	6331.1	6328.5	6325.9	6323.2
12.5°	6492.2	6500.1	6502.7	6513.3	6521.2	6523.8	6505.4	6489.5	6463.1	6468.4	6457.9
15°	6655.8	6671.7	6669.0	6684.8	6705.9	6711.2	6692.8	6666.4	6642.6	6629.4	6621.4
17.5°	6856.3	6866.9	6861.6	6877.4	6903.9	6917.1	6901.2	6866.9	6843.1	6814.1	6798.3
20°	7093.8	7112.3	7117.6	7117.6	7141.4	7154.6	7130.8	7120.2	7083.3	7062.2	7049.0
22.5°	7363.0	7370.9	7386.8	7402.7	7426.4	7421.2	7413.2	7397.4	7363.0	7344.6	7323.4
25°	7666.6	7674.5	7714.1	7748.4	7756.3	7751.0	7740.5	7732.5	7700.9	7658.7	7642.8
27.5°	8020.2	8036.0	8088.8	8120.4	8120.4	8123.1	8102.0	8128.3	8059.8	8009.6	8004.4
30°	8463.6	8474.1	8519.0	8550.6	8534.8	8521.6	8516.3	8542.7	8468.9	8379.1	8358.0
32.5°	8901.6	8938.6	8978.2	9046.8	8991.4	8967.6	8962.4	8980.8	8896.4	8796.1	8767.1
35°	9371.4	9397.8	9471.7	9529.7	9479.6	9424.2	9448.0	9506.0	9405.7	9271.1	9265.8
37.5°	9891.3	9915.1	10010.1	10070.7	10033.8	9938.8	9978.4	10047.0	9946.8	9780.5	9746.2
40°	10432.4	10482.5	10601.2	10664.6	10603.8	10477.2	10551.1	10624.9	10535.2	10342.6	10266.1
42.5°	11039.3	11118.4	11290.0	11321.7	11205.6	11034.0	11163.3	11282.1	11218.8	10997.1	10968.1
45°	11749.2	11796.7	12007.9	12076.4	11915.5	11701.7	11862.7	12079.1	12031.6	11775.6	11720.2
47.5°	12543.6	12588.4	12807.5	12910.4	12707.2	12419.6	12709.9	12992.2	12963.2	12688.8	12662.3
50°	13483.1	13493.7	13797.1	13913.3	13710.1	13462.0	13720.6	14071.6	13955.5	13604.5	13599.2
52.5°	14512.4	14525.5	14908.2	15132.5	15019.1	14739.3	15045.4	15259.2	14963.7	14504.4	14470.1
55°	15404.3	15470.4	15992.9	16589.3	16745.0	16541.8	16634.1	16533.9	15805.5	15161.5	15061.3
57.5°	15768.6	15897.8	16692.3	17805.9	18819.3	19120.2	18407.6	17452.3	16140.6	15230.2	15132.5
60°	14879.1	15019.1	16251.5	18365.4	20951.7	22258.1	20255.0	17608.0	15377.9	14098.0	13945.0
62.5°	11915.5	11955.1	13768.1	17048.5	22194.7	25578.0	21033.5	16280.5	13158.5	11419.4	11358.6
64°	8574.4	8980.8	10902.1	14947.8	21651.0	26842.2	20584.9	14420.0	10688.3	8928.1	8643.0
65°	6413.0	6523.8	8788.2	12765.3	20693.1	26747.2	19714.0	12641.2	8851.5	6832.6	6515.9
67.5°	2422.7	2435.9	3243.4	6362.8	14731.4	23012.9	15045.4	6877.4	3729.0	2697.2	2599.5
70°	1005.5	1024.0	1190.3	2140.3	6331.1	14776.3	7254.9	2480.8	1364.4	1105.7	1089.9
72.5°	736.3	746.9	797.0	950.1	1947.7	6067.2	2385.7	1053.0	799.6	715.2	707.3
75°	577.9	583.2	620.2	699.4	907.9	1681.1	992.3	723.1	609.6	548.9	543.6
77.5°	440.8	453.9	480.3	533.1	609.6	797.0	657.2	541.0	469.8	419.6	411.7
80°	303.5	319.3	369.5	390.6	409.1	517.3	448.7	409.1	366.8	306.1	287.6
82.5°	187.4	198.0	248.1	266.5	258.6	290.3	287.6	292.9	261.3	190.0	176.8
85°	97.6	102.9	134.6	139.9	129.3	118.7	147.8	171.6	161.0	108.2	105.5
87.5°	21.1	23.7	29.0	26.4	29.0	29.0	36.9	55.4	58.0	36.9	34.3
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)