

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: P652098

Luminaire Tested: **GALN-SA9A-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652098
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-SA9A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36386.7 lumens
Efficiency: N/A
Efficacy: 132.8 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

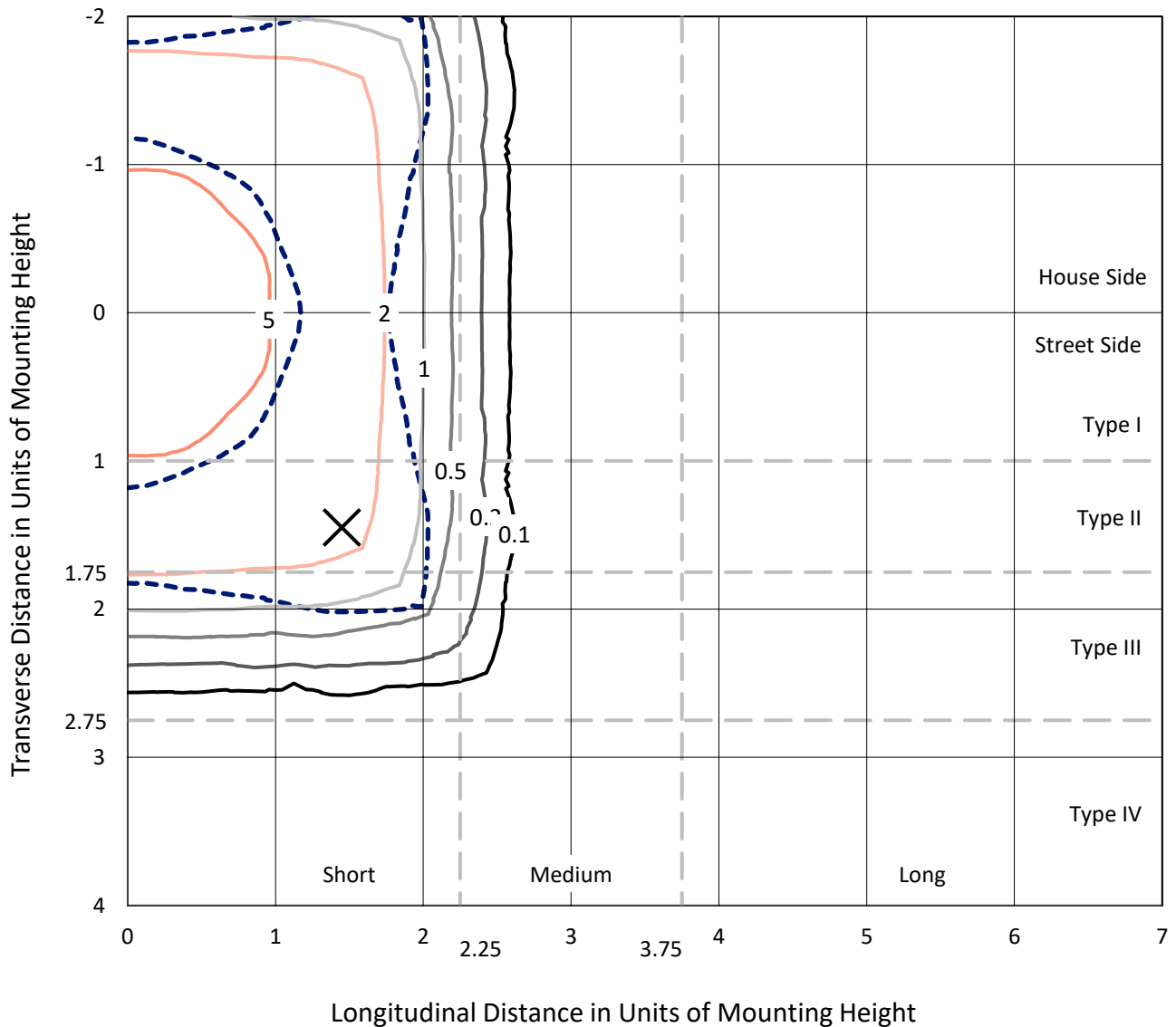
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

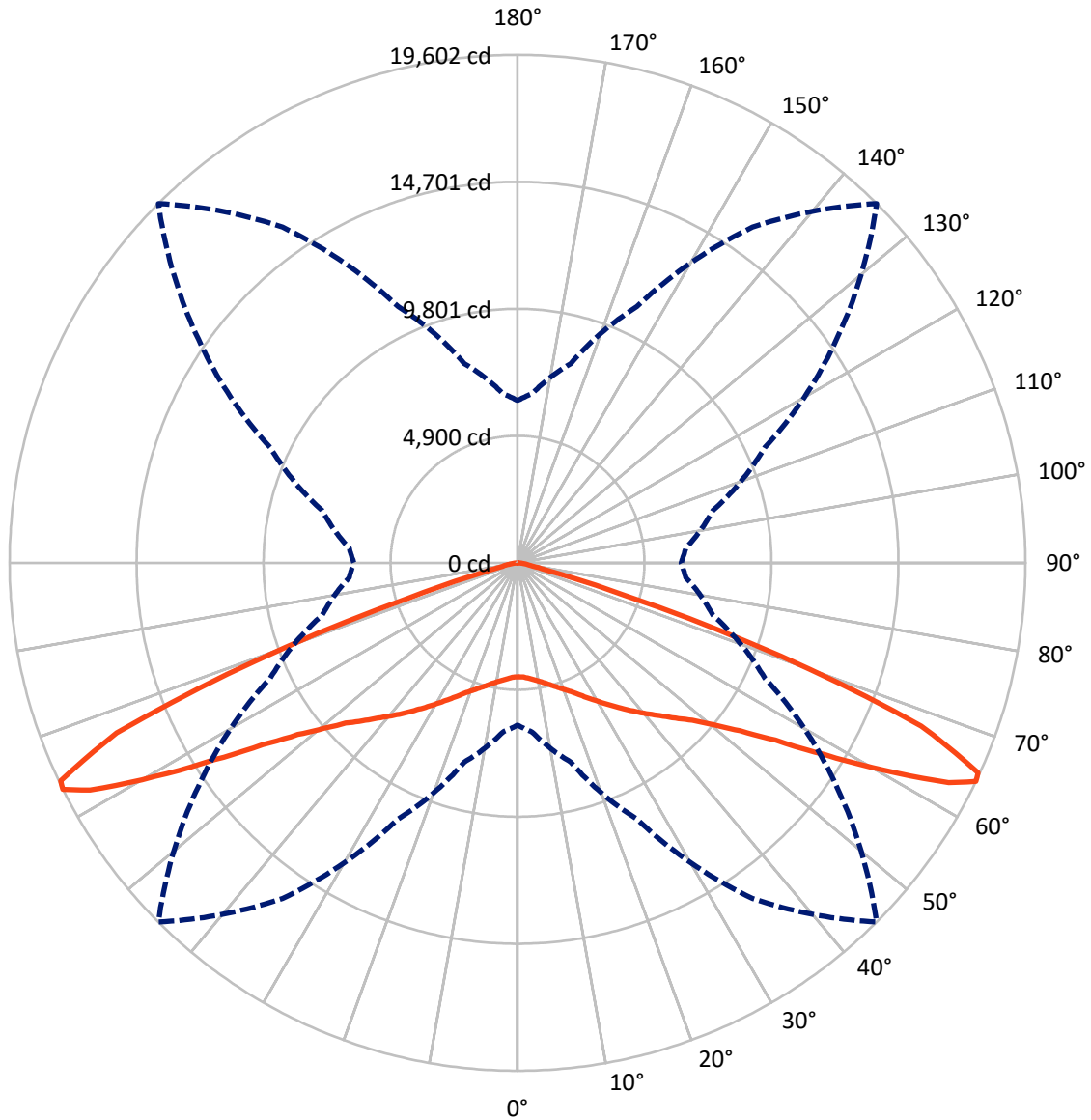
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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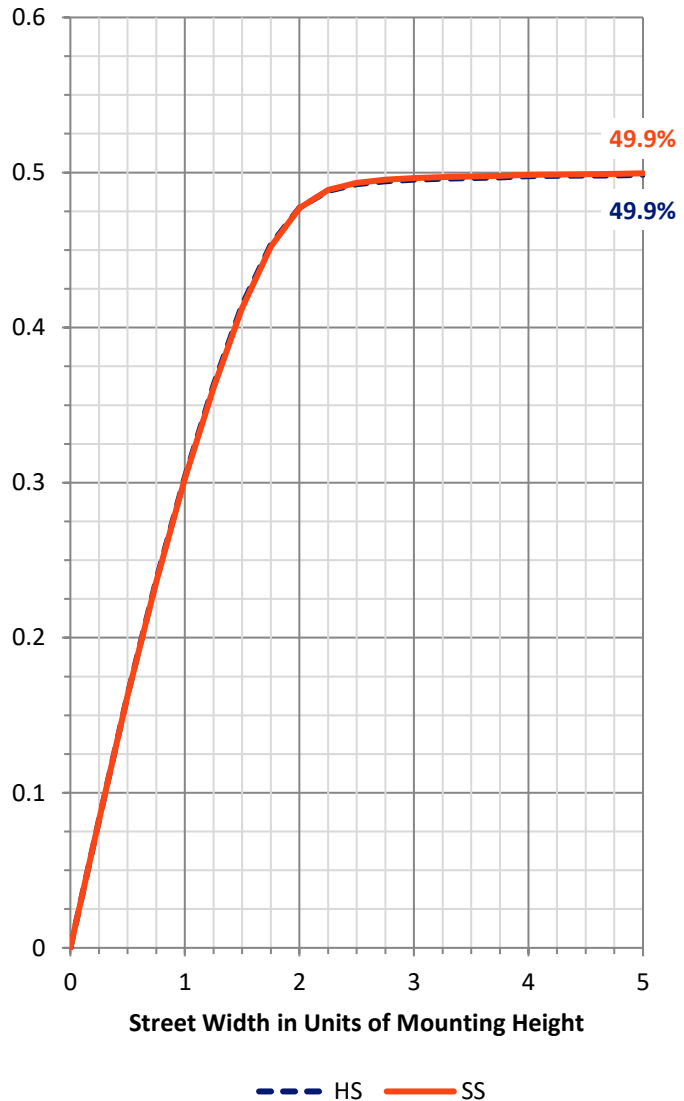
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18193.4	0.0	18193.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18193.4	0.0	18193.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	36386.7	0.0	36386.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.2
10°-20°	1393.7	3.8
20°-30°	2633.7	7.2
30°-40°	4361.7	12.0
40°-50°	6809.3	18.7
50°-60°	10527.0	28.9
60°-70°	9077.3	24.9
70°-80°	1028.7	2.8
80°-90°	123.3	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°	36386.7	100.0
0°-180°	36386.7	100.0

Coefficient of Utilization



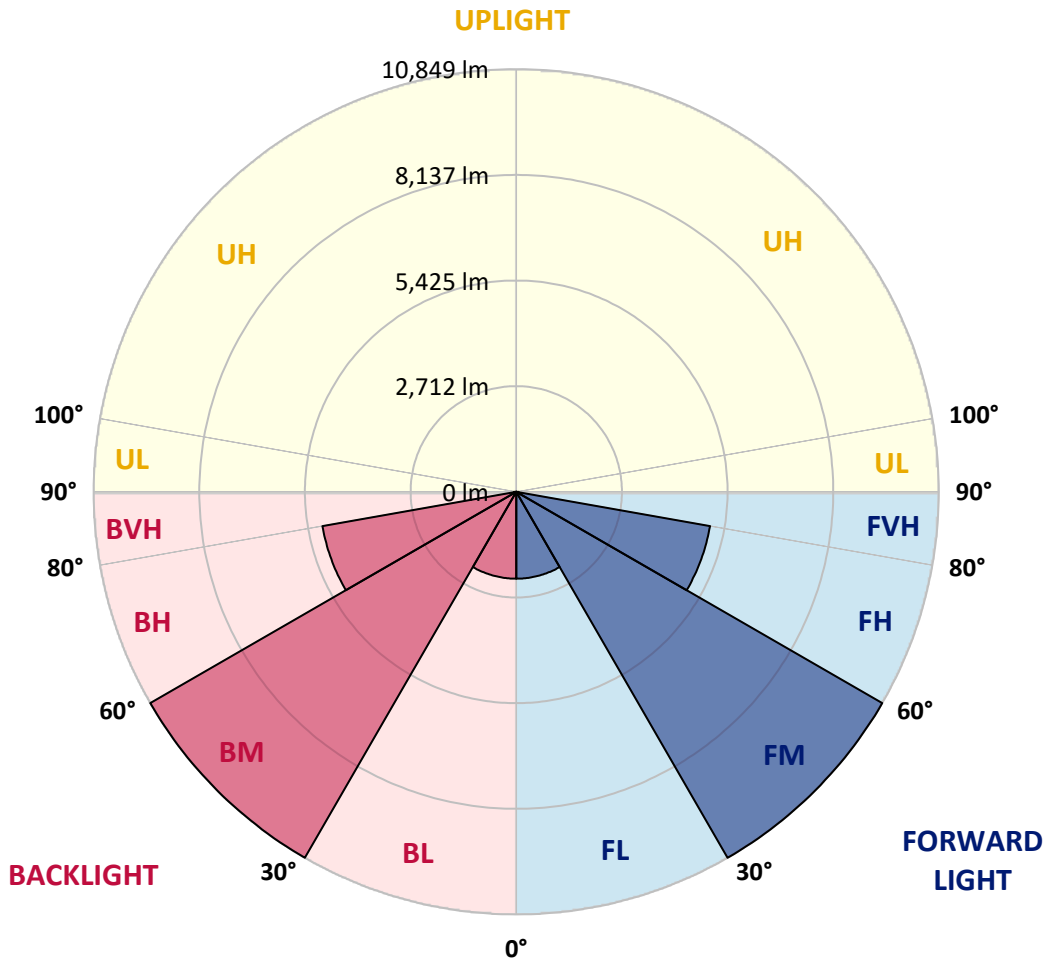
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.7	6.1			
FM (30°-60°)	10849.0	29.8			
FH (60°-80°)	5053.0	13.9			G3/7500
FVH (80°-90°)	61.6	0.2			G1/100
BL (0°-30°)	2229.7	6.1	B3/2500		
BM (30°-60°)	10849.0	29.8	B5		
BH (60°-80°)	5053.0	13.9	B5		G3/7500
BVH (80°-90°)	61.6	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°	4397.9	4397.9	4397.9	4397.9	4397.9	4397.9	4397.9	4397.9	4397.9	4397.9	4397.9
2.5°	4415.2	4424.9	4417.2	4415.2	4413.4	4413.4	4413.4	4415.2	4423.0	4428.8	4424.9
5°	4471.2	4478.9	4475.0	4473.1	4471.2	4473.1	4469.2	4467.3	4473.1	4473.1	4471.2
7.5°	4540.6	4550.2	4546.4	4550.2	4552.2	4554.0	4544.4	4536.7	4534.8	4540.6	4536.7
10°	4635.0	4642.7	4644.6	4646.5	4650.4	4648.5	4636.9	4623.4	4621.5	4619.6	4617.7
12.5°	4741.0	4746.8	4748.7	4756.4	4762.2	4764.1	4750.6	4739.0	4719.8	4723.6	4715.9
15°	4860.5	4872.1	4870.1	4881.7	4897.1	4900.9	4887.5	4868.2	4850.8	4841.2	4835.4
17.5°	5007.0	5014.6	5010.8	5022.4	5041.6	5051.3	5039.7	5014.6	4997.3	4976.1	4964.6
20°	5180.4	5193.9	5197.7	5197.7	5215.1	5224.7	5207.4	5199.7	5172.7	5157.3	5147.7
22.5°	5377.0	5382.7	5394.3	5405.9	5423.3	5419.4	5413.6	5402.0	5377.0	5363.5	5348.1
25°	5598.6	5604.4	5633.3	5658.3	5664.1	5660.3	5652.6	5646.8	5623.7	5592.8	5581.3
27.5°	5856.9	5868.4	5906.9	5930.1	5930.1	5932.0	5916.6	5935.9	5885.7	5849.2	5845.3
30°	6180.7	6188.3	6221.1	6244.3	6232.7	6223.1	6219.2	6238.5	6184.5	6118.9	6103.6
32.5°	6500.6	6527.5	6556.4	6606.6	6566.1	6548.7	6544.9	6558.4	6496.7	6423.5	6402.3
35°	6843.6	6862.9	6916.8	6959.3	6922.6	6882.2	6899.5	6941.9	6868.7	6770.4	6766.5
37.5°	7223.3	7240.6	7310.0	7354.3	7327.4	7258.0	7286.8	7337.0	7263.7	7142.4	7117.3
40°	7618.4	7655.0	7741.7	7787.9	7743.6	7651.1	7705.1	7759.1	7693.6	7552.9	7496.9
42.5°	8061.6	8119.4	8244.7	8267.8	8183.0	8057.8	8152.2	8238.9	8192.7	8030.8	8009.6
45°	8580.1	8614.7	8768.9	8819.0	8701.5	8545.3	8662.9	8820.9	8786.3	8599.3	8558.9
47.5°	9160.2	9192.9	9352.8	9428.0	9279.6	9069.6	9281.5	9487.7	9466.5	9266.1	9246.9
50°	9846.3	9853.9	10075.6	10160.4	10011.9	9830.8	10019.7	10276.0	10191.2	9934.9	9931.0
52.5°	10597.9	10607.4	10886.9	11050.7	10967.9	10763.6	10987.2	11143.2	10927.4	10592.1	10567.0
55°	11249.2	11297.4	11679.1	12114.6	12228.3	12079.9	12147.3	12074.2	11542.2	11071.9	10998.7
57.5°	11515.2	11609.7	12189.7	13003.0	13743.1	13962.8	13442.5	12744.8	11787.0	11122.1	11050.7
60°	10865.7	10967.9	11867.9	13411.6	15300.3	16254.3	14791.5	12858.5	11230.0	10295.3	10183.5
62.5°	8701.5	8730.3	10054.4	12449.9	16208.0	18678.8	15360.0	11889.1	9609.2	8339.1	8294.8
64°	6261.6	6558.4	7961.4	10915.8	15811.1	19601.9	15032.5	10530.4	7805.3	6519.9	6311.7
65°	4683.2	4764.1	6417.7	9322.1	15111.4	19532.5	14396.4	9231.4	6463.9	4989.6	4758.4
67.5°	1769.2	1778.8	2368.6	4646.5	10757.8	16805.5	10987.2	5022.4	2723.2	1969.6	1898.3
70°	734.3	747.7	869.2	1563.0	4623.4	10790.5	5298.0	1811.6	996.4	807.5	795.9
72.5°	537.7	545.4	582.1	693.8	1422.3	4430.7	1742.2	768.9	584.0	522.3	516.5
75°	422.1	425.9	452.9	510.7	663.0	1227.6	724.6	528.1	445.2	400.9	397.0
77.5°	321.9	331.5	350.8	389.3	445.2	582.1	479.9	395.1	343.0	306.5	300.7
80°	221.6	233.2	269.8	285.3	298.7	377.8	327.7	298.7	267.9	223.5	210.1
82.5°	136.8	144.6	181.2	194.7	188.9	212.0	210.1	214.0	190.8	138.8	129.1
85°	71.3	75.2	98.3	102.2	94.4	86.7	107.9	125.3	117.6	79.1	77.1
87.5°	15.4	17.3	21.2	19.3	21.2	21.2	27.0	40.5	42.4	27.0	25.1
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)