

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: P652593

Luminaire Tested: **GALN-SA9B-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652593
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-SA9B-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45275.2 lumens
Efficiency: N/A
Efficacy: 124.4 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

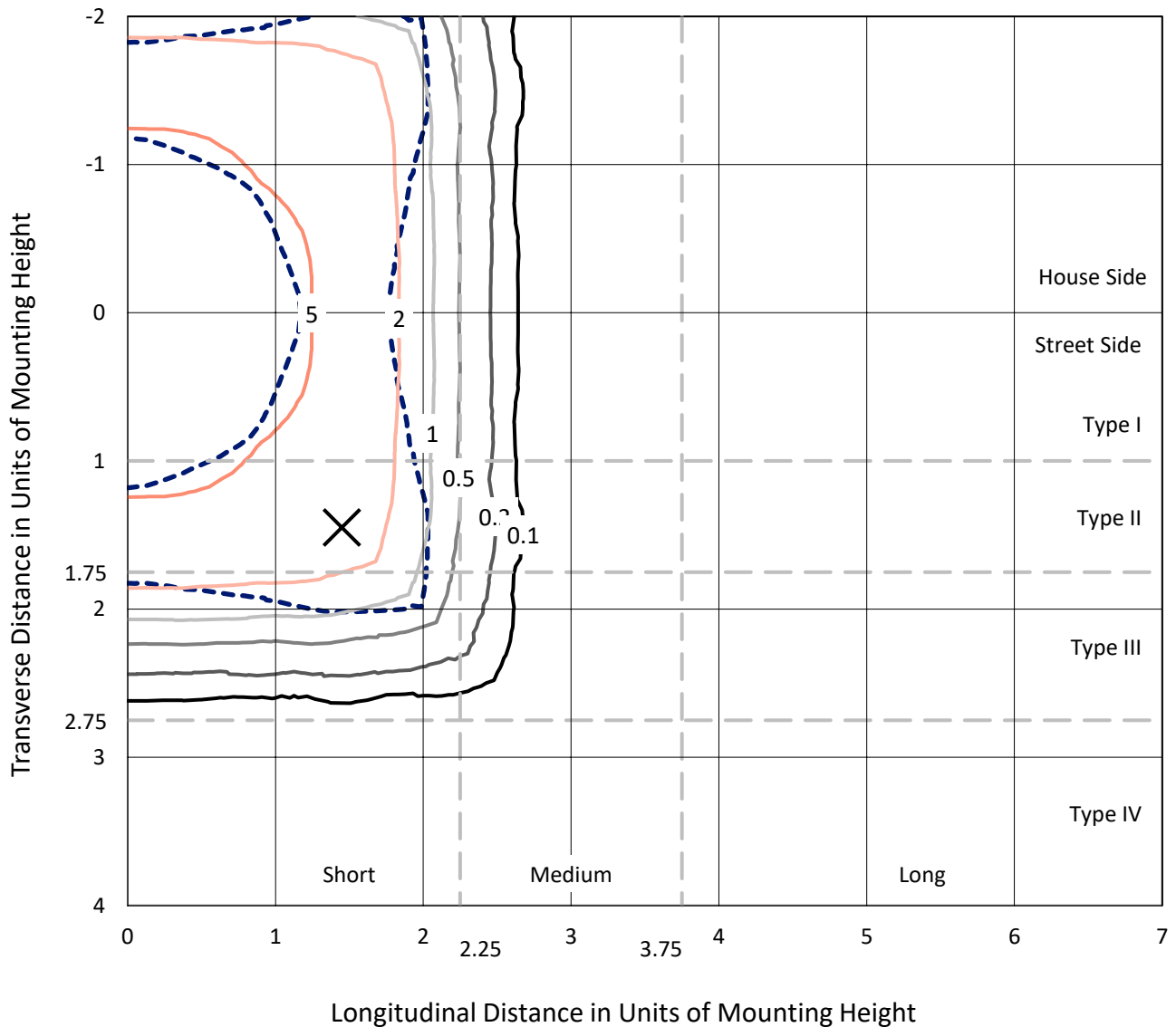
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

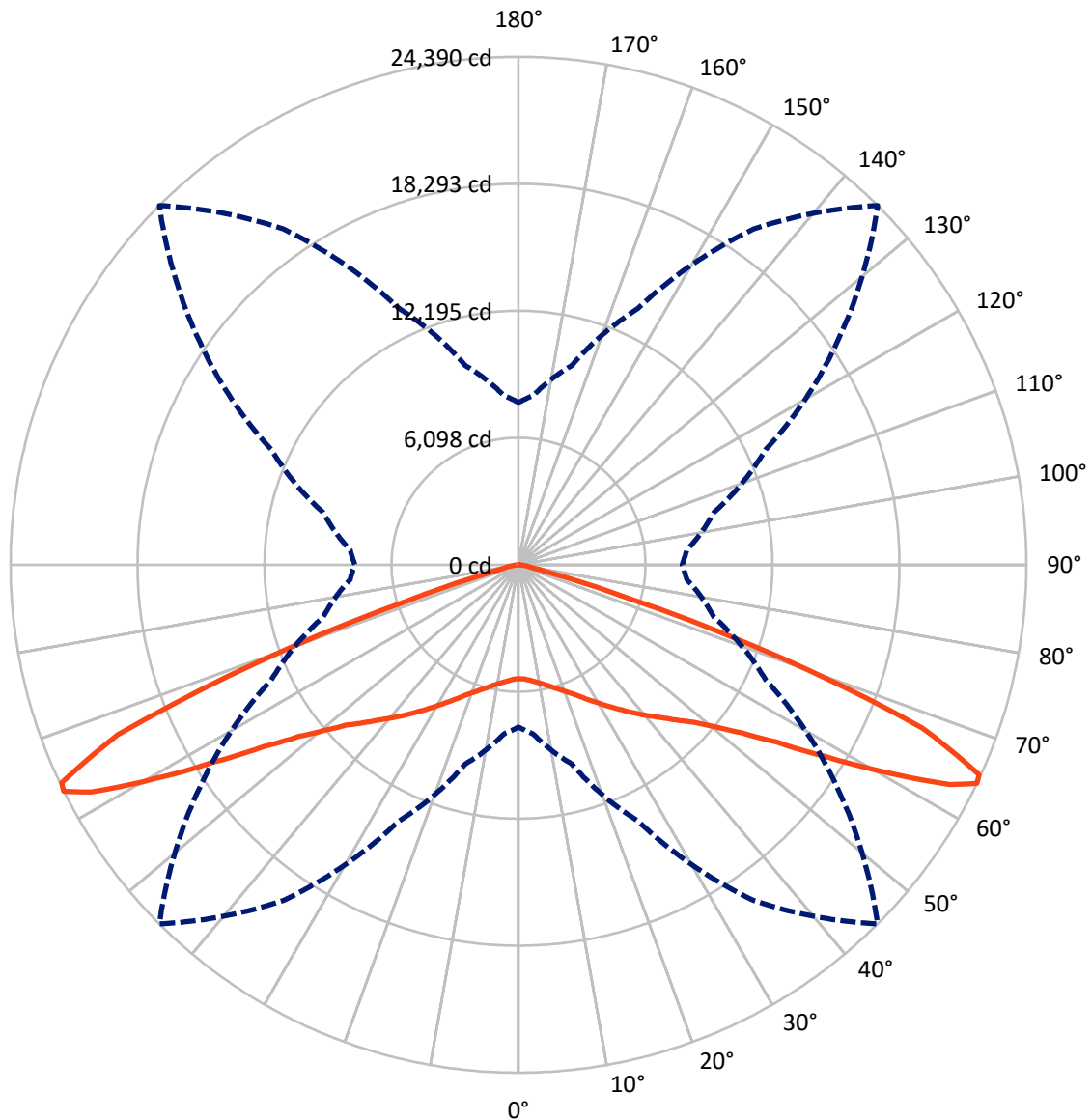
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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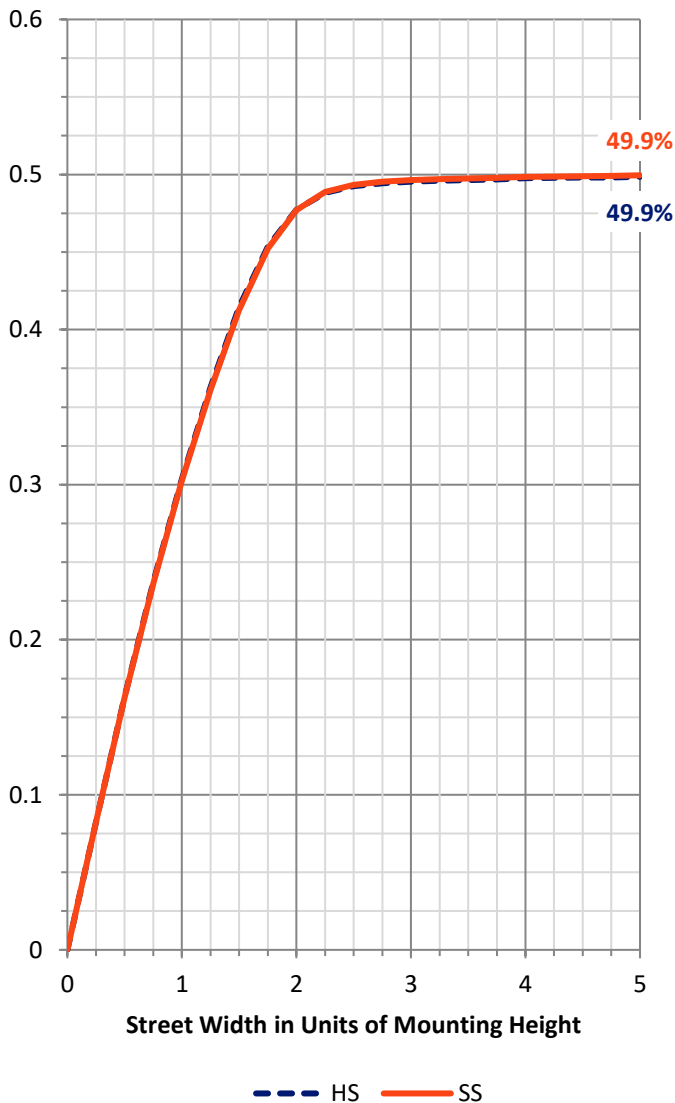
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22637.6	0.0	22637.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22637.6	0.0	22637.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	45275.2	0.0	45275.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	1.2
10°-20°	1734.1	3.8
20°-30°	3277.0	7.2
30°-40°	5427.2	12.0
40°-50°	8472.7	18.7
50°-60°	13098.6	28.9
60°-70°	11294.7	24.9
70°-80°	1280.0	2.8
80°-90°	153.3	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°	45275.2	100.0
0°-180°	45275.2	100.0



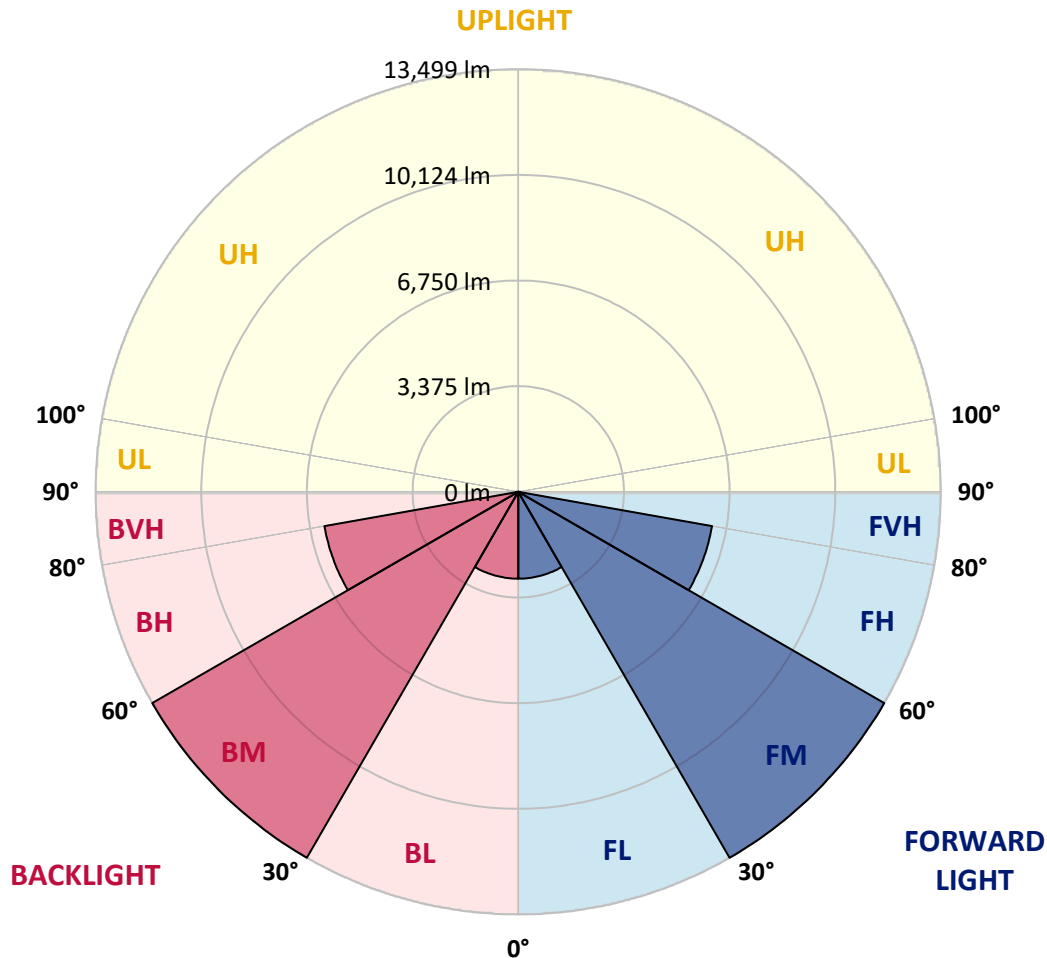
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.4	6.1			
FM (30°-60°)	13499.2	29.8			
FH (60°-80°)	6287.4	13.9			G3/7500
FVH (80°-90°)	76.7	0.2			G1/100
BL (0°-30°)	2774.4	6.1	B4/5000		
BM (30°-60°)	13499.2	29.8	B5		
BH (60°-80°)	6287.4	13.9	B5		G3/7500
BVH (80°-90°)	76.7	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°	5472.3	5472.3	5472.3	5472.3	5472.3	5472.3	5472.3	5472.3	5472.3	5472.3	5472.3
2.5°	5493.8	5505.9	5496.3	5493.8	5491.5	5491.5	5491.5	5493.8	5503.4	5510.7	5505.9
5°	5563.4	5573.0	5568.2	5565.8	5563.4	5565.8	5561.0	5558.6	5565.8	5565.8	5563.4
7.5°	5649.8	5661.7	5656.9	5661.7	5664.1	5666.5	5654.5	5645.0	5642.5	5649.8	5645.0
10°	5767.2	5776.8	5779.2	5781.6	5786.4	5784.0	5769.6	5752.9	5750.4	5748.1	5745.6
12.5°	5899.1	5906.3	5908.7	5918.3	5925.5	5927.9	5911.1	5896.8	5872.7	5877.5	5867.9
15°	6047.8	6062.2	6059.8	6074.2	6093.4	6098.2	6081.4	6057.4	6035.8	6023.8	6016.6
17.5°	6230.0	6239.6	6234.8	6249.2	6273.2	6285.2	6270.8	6239.6	6218.0	6191.7	6177.3
20°	6445.8	6462.7	6467.5	6467.5	6489.1	6501.0	6479.4	6469.8	6436.3	6417.1	6405.1
22.5°	6690.5	6697.6	6712.0	6726.4	6748.0	6743.2	6736.0	6721.6	6690.5	6673.7	6654.5
25°	6966.3	6973.4	7009.4	7040.6	7047.7	7043.0	7033.4	7026.2	6997.4	6959.0	6944.6
27.5°	7287.6	7302.0	7349.9	7378.7	7378.7	7381.1	7361.9	7385.9	7323.5	7278.0	7273.2
30°	7690.4	7700.0	7740.8	7769.6	7755.2	7743.2	7738.4	7762.3	7695.2	7613.7	7594.5
32.5°	8088.5	8122.0	8158.0	8220.4	8170.1	8148.4	8143.7	8160.5	8083.7	7992.6	7966.2
35°	8515.4	8539.3	8606.5	8659.3	8613.7	8563.3	8584.9	8637.7	8546.5	8424.2	8419.4
37.5°	8987.8	9009.4	9095.7	9150.8	9117.3	9030.9	9066.9	9129.2	9038.1	8887.0	8855.9
40°	9479.3	9524.9	9632.8	9690.4	9635.3	9520.1	9587.2	9654.4	9572.9	9397.8	9328.3
42.5°	10030.9	10102.8	10258.7	10287.4	10182.0	10026.1	10143.6	10251.5	10193.9	9992.5	9966.2
45°	10676.0	10719.1	10911.0	10973.3	10827.0	10632.8	10779.1	10975.7	10932.6	10700.0	10649.6
47.5°	11397.7	11438.5	11637.6	11731.1	11546.4	11285.0	11548.9	11805.5	11779.0	11529.7	11505.7
50°	12251.4	12261.0	12536.9	12642.3	12457.7	12232.3	12467.3	12786.2	12680.7	12361.8	12357.0
52.5°	13186.7	13198.7	13546.4	13750.3	13647.1	13392.9	13671.1	13865.3	13596.8	13179.5	13148.4
55°	13997.2	14057.1	14532.0	15073.9	15215.5	15030.8	15114.7	15023.5	14361.8	13776.6	13685.5
57.5°	14328.1	14445.7	15167.4	16179.4	17100.2	17373.6	16726.1	15858.1	14666.3	13839.0	13750.3
60°	13520.0	13647.1	14767.0	16687.8	19037.9	20224.9	18404.8	15999.6	13973.2	12810.2	12671.1
62.5°	10827.0	10863.0	12510.5	15491.2	20167.3	23241.5	19112.2	14793.4	11956.5	10376.3	10321.1
64°	7791.2	8160.5	9906.2	13582.4	19673.3	24390.3	18704.5	13102.8	9712.0	8112.5	7853.5
65°	5827.2	5927.9	7985.4	11599.2	18802.8	24303.9	17913.2	11486.5	8043.0	6208.4	5920.7
67.5°	2201.4	2213.3	2947.2	5781.6	13385.7	20910.7	13671.1	6249.2	3388.4	2450.8	2362.0
70°	913.7	930.4	1081.5	1944.8	5752.9	13426.5	6592.2	2254.1	1239.8	1004.7	990.4
72.5°	669.0	678.6	724.2	863.3	1769.7	5513.0	2167.8	956.8	726.6	649.8	642.7
75°	525.2	530.0	563.6	635.5	824.9	1527.5	901.6	657.1	554.0	498.8	494.0
77.5°	400.5	412.4	436.5	484.4	554.0	724.2	597.1	491.6	426.8	381.3	374.1
80°	275.8	290.1	335.7	354.9	371.7	470.0	407.6	371.7	333.3	278.2	261.4
82.5°	170.2	179.9	225.4	242.2	235.0	263.8	261.4	266.2	237.4	172.7	160.6
85°	88.7	93.5	122.3	127.1	117.5	107.9	134.3	155.8	146.2	98.3	96.0
87.5°	19.2	21.6	26.4	24.0	26.4	26.4	33.6	50.4	52.7	33.6	31.2
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)