

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: P651109

Luminaire Tested: **GALN-SA9C-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27959.1 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

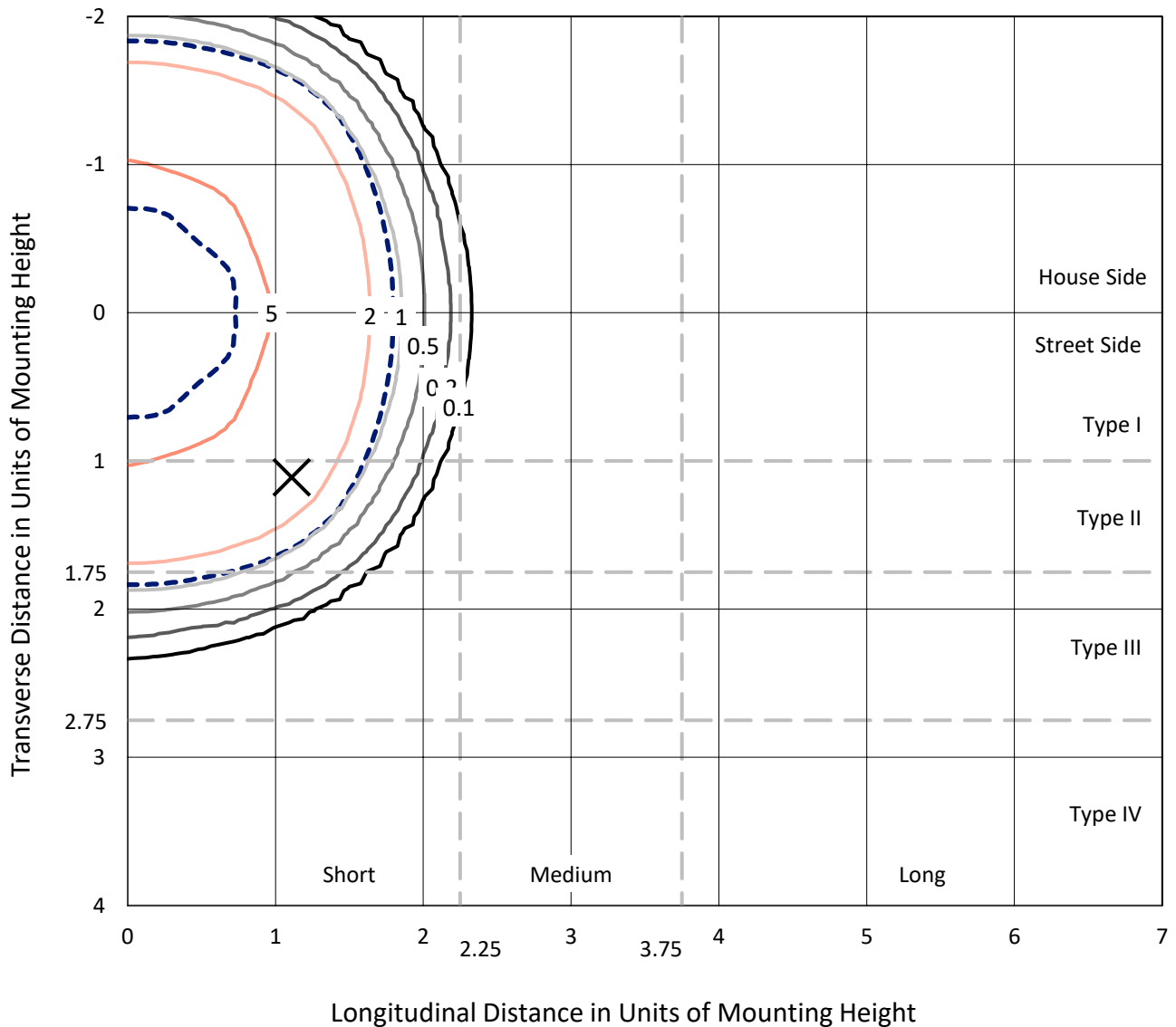
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651109
 CATALOG NUMBER: GALN-SA9C-840-U-5WQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

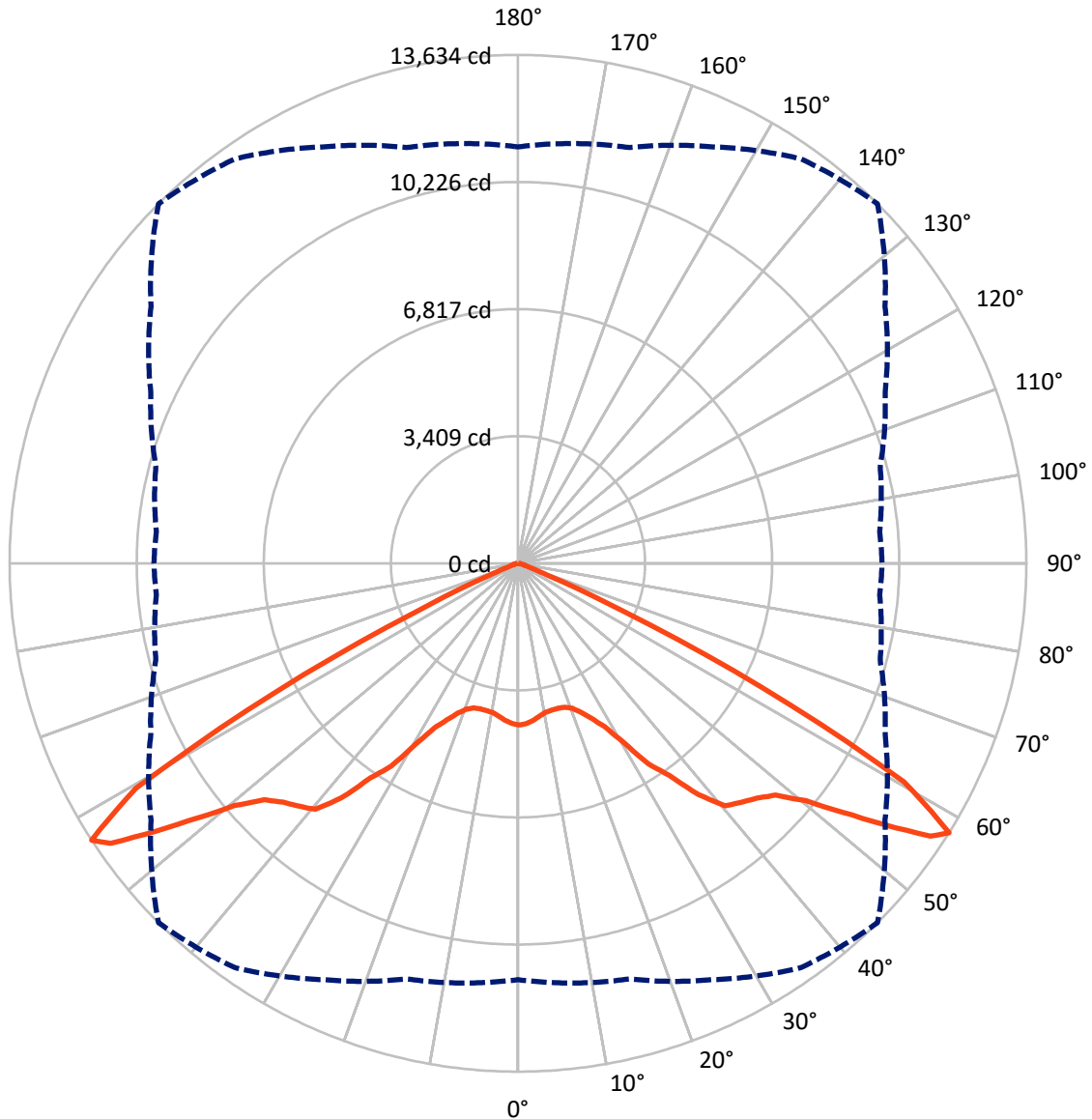
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

REPORT NUMBER: P651109
CATALOG NUMBER: GALN-SA9C-840-U-5WQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P651109
 CATALOG NUMBER: GALN-SA9C-840-U-5WQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13979.5	0.0	13979.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13979.5	0.0	13979.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27959.1	0.0	27959.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.5	1.4
10°-20°	1151.9	4.1
20°-30°	2126.3	7.6
30°-40°	4181.6	15.0
40°-50°	6810.7	24.4
50°-60°	9712.9	34.7
60°-70°	3362.8	12.0
70°-80°	180.4	0.6
80°-90°	33.9	0.1
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°	27959.1	100.0
0°-180°	27959.1	100.0

Coefficient of Utilization



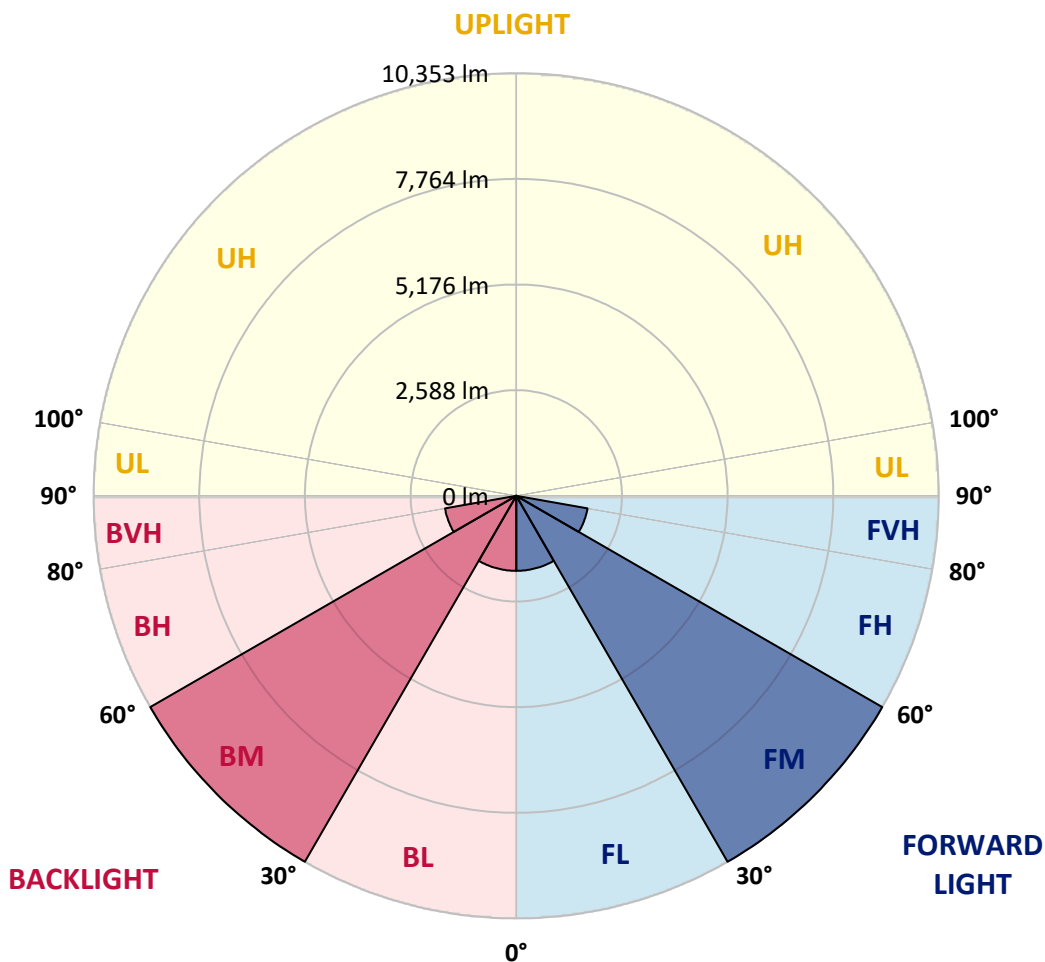
REPORT NUMBER: P651109
 CATALOG NUMBER: GALN-SA9C-840-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.4	6.6			
FM (30°-60°)	10352.6	37.0			
FH (60°-80°)	1771.6	6.3			G1/1800
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	1838.4	6.6	B3/2500		
BM (30°-60°)	10352.6	37.0	B5		
BH (60°-80°)	1771.6	6.3	B3/2500		G1/1800
BVH (80°-90°)	16.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





REPORT NUMBER: P651109

CATALOG NUMBER: GALN-SA9C-840-U-5WQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4336.7	4336.7	4336.7	4336.7	4336.7	4336.7	4336.7	4336.7	4336.7	4336.7	4336.7
2.5°	4325.1	4348.4	4319.3	4307.6	4301.8	4301.8	4284.3	4284.3	4278.4	4284.3	4260.9
5°	4255.1	4278.4	4278.4	4272.6	4237.6	4231.8	4214.3	4202.6	4208.5	4185.2	4202.6
7.5°	4185.2	4202.6	4179.3	4173.5	4161.9	4138.6	4132.8	4080.3	4086.1	4086.1	4097.8
10°	4173.5	4167.7	4132.8	4103.6	4068.6	4062.8	4045.3	4033.6	4033.6	4027.8	4045.3
12.5°	4173.5	4144.4	4138.6	4074.5	4016.1	4039.5	3992.8	3963.7	4004.5	4016.1	4039.5
15°	4167.7	4196.8	4097.8	4068.6	4027.8	4033.6	3992.8	3963.7	3987.0	3998.7	4016.1
17.5°	4202.6	4185.2	4156.1	4097.8	4080.3	4057.0	4004.5	3981.2	3981.2	4010.3	4016.1
20°	4295.9	4249.3	4191.0	4161.9	4179.3	4150.3	4086.1	3998.7	4022.0	4045.3	4062.8
22.5°	4383.4	4348.4	4307.6	4290.1	4389.2	4342.6	4231.8	4132.8	4097.8	4138.6	4167.7
25°	4552.4	4552.4	4476.6	4499.9	4610.7	4616.5	4488.3	4313.4	4290.1	4307.6	4319.3
27.5°	4896.3	4913.8	4849.7	4873.0	4919.6	4960.5	4849.7	4704.0	4651.5	4645.7	4663.2
30°	5269.4	5304.4	5298.6	5397.6	5531.7	5555.0	5391.8	5152.8	4995.4	4966.3	4989.6
32.5°	5759.0	5776.5	5764.8	5881.4	6242.8	6411.9	5986.3	5648.2	5438.4	5490.9	5438.4
35°	6680.0	6662.5	6534.2	6557.6	6854.8	6977.3	6569.2	6353.6	6254.4	6359.4	6336.1
37.5°	7472.7	7408.6	7303.7	7455.2	7764.2	7875.0	7449.4	7070.5	6889.8	7064.7	7140.4
40°	8143.1	7979.8	7834.1	7985.6	8399.5	8551.0	7927.4	7618.5	7548.5	7676.7	7840.0
42.5°	8708.5	8603.5	8411.2	8422.9	8696.8	8766.8	8265.4	8084.8	8014.8	8218.8	8300.4
45°	9110.6	9011.6	8830.8	8819.2	9029.1	8982.4	8533.6	8411.2	8452.0	8586.0	8626.8
47.5°	9314.7	9367.1	9262.2	9291.4	9402.1	9291.4	8935.8	8935.8	8842.5	8924.1	8883.3
50°	9903.4	9740.2	9874.3	9874.3	9990.8	10002.5	9646.9	9518.7	9268.1	9128.1	9128.1
52.5°	10591.2	10602.8	10655.3	10847.7	11045.9	11214.9	10707.8	10159.9	9740.2	9559.5	9536.2
55°	11156.6	11273.2	11483.0	11844.4	12415.7	12648.8	11774.5	10795.2	10282.2	10002.5	9944.2
56°	11465.5	11354.8	11716.2	12211.7	12957.8	13260.9	11949.3	10923.5	10358.0	10043.3	10037.4
57.5°	11168.3	11290.7	11541.3	12322.4	13237.6	13634.0	12013.4	10865.1	10054.9	9734.3	9763.5
60°	8819.2	8935.8	9273.9	10148.2	11582.2	11891.1	10165.7	8959.1	8236.3	7775.8	7781.7
62.5°	4989.6	5077.0	5339.3	6149.6	7041.4	7338.7	6336.1	5531.7	5030.4	4773.9	4692.3
65°	1836.2	1801.2	1842.0	2255.8	2803.7	3054.3	2634.7	2226.6	1964.3	1871.1	1836.2
67.5°	687.9	635.4	594.6	635.4	798.5	845.2	775.2	647.0	606.2	623.7	635.4
70°	425.5	402.2	320.6	303.1	297.3	291.4	308.9	326.4	373.1	437.2	448.8
72.5°	297.3	279.8	227.3	215.6	204.0	198.2	227.3	250.6	291.4	338.1	343.9
75°	116.6	122.4	116.6	128.3	134.1	139.9	163.2	180.7	198.2	198.2	192.3
77.5°	23.3	23.3	35.0	46.6	58.3	75.8	110.8	128.3	134.1	128.3	110.8
80°	0.0	0.0	11.7	23.3	46.6	64.1	99.1	110.8	122.4	110.8	87.5
82.5°	0.0	0.0	11.7	29.2	46.6	58.3	93.3	116.6	134.1	122.4	93.3
85°	0.0	0.0	11.7	23.3	35.0	40.8	40.8	29.2	29.2	17.5	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)