

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: P650888

Luminaire Tested: **GALN-SA5C-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650888
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-SA5C-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 30900.9 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

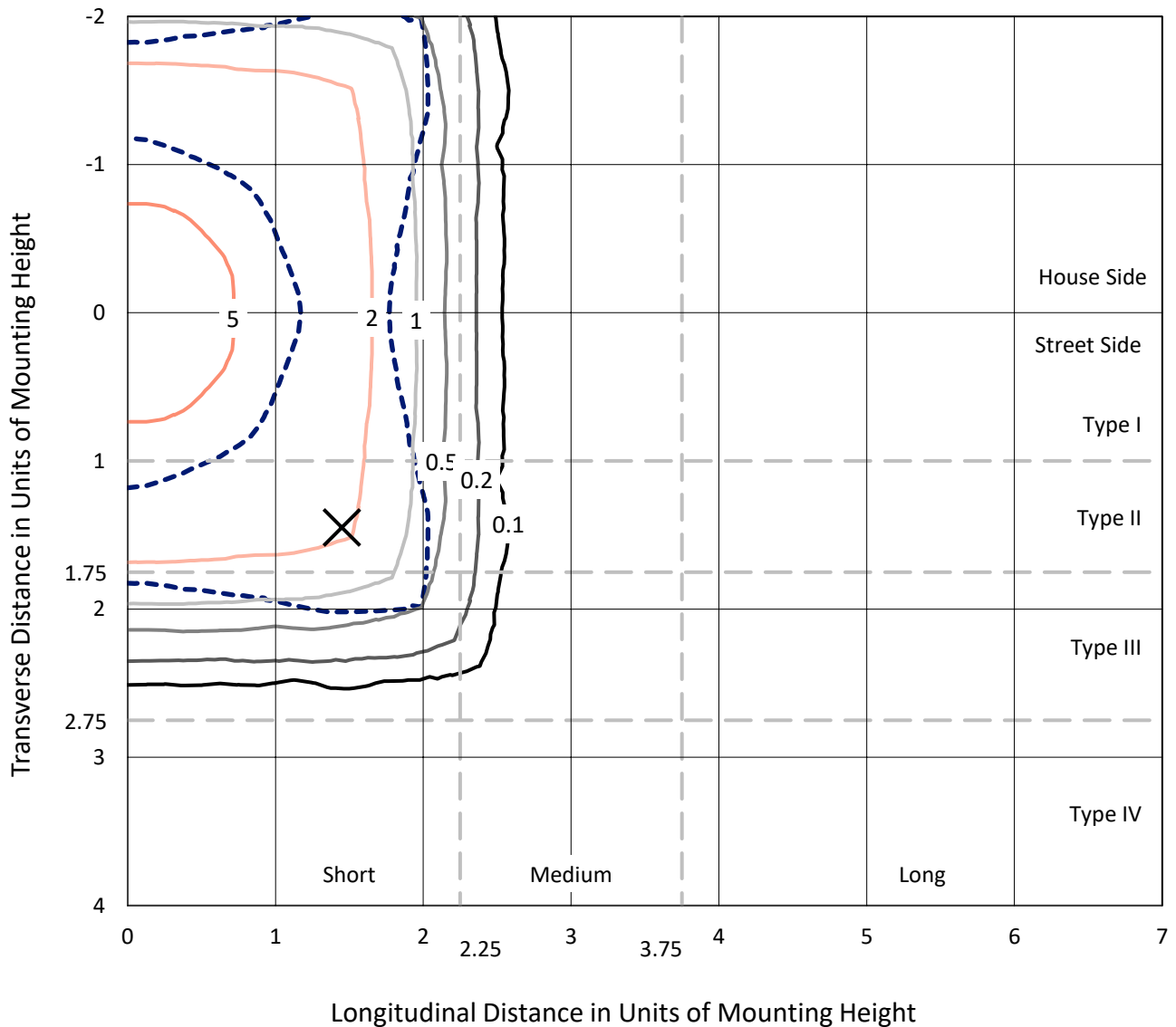
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650888
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

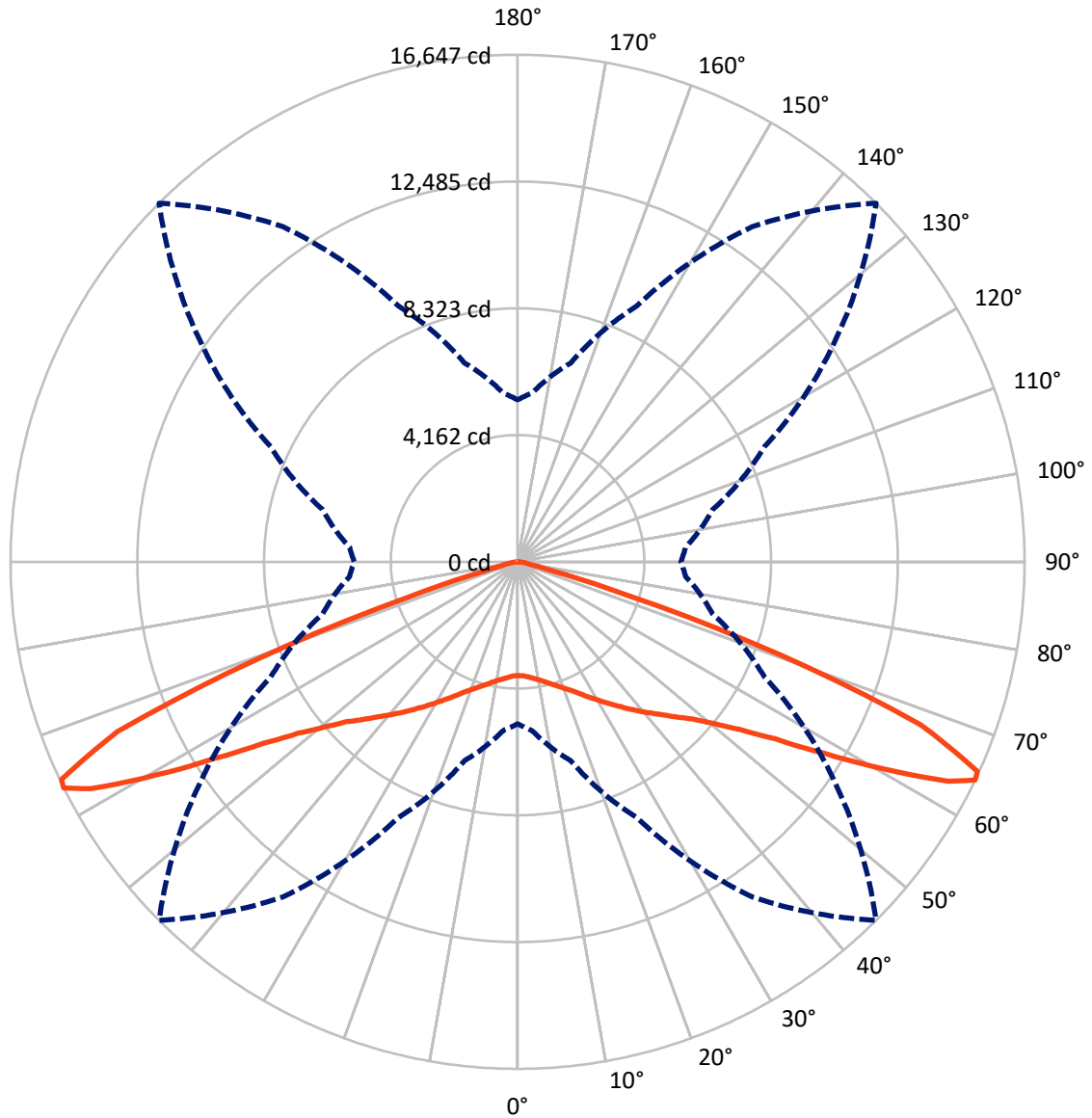
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

REPORT NUMBER: P650888
CATALOG NUMBER: GALN-SA5C-840-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650888
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15450.4	0.0	15450.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15450.4	0.0	15450.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	30900.9	0.0	30900.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.9	1.2
10°-20°	1183.6	3.8
20°-30°	2236.6	7.2
30°-40°	3704.1	12.0
40°-50°	5782.7	18.7
50°-60°	8939.9	28.9
60°-70°	7708.8	24.9
70°-80°	873.6	2.8
80°-90°	104.7	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°	30900.9	100.0
0°-180°	30900.9	100.0



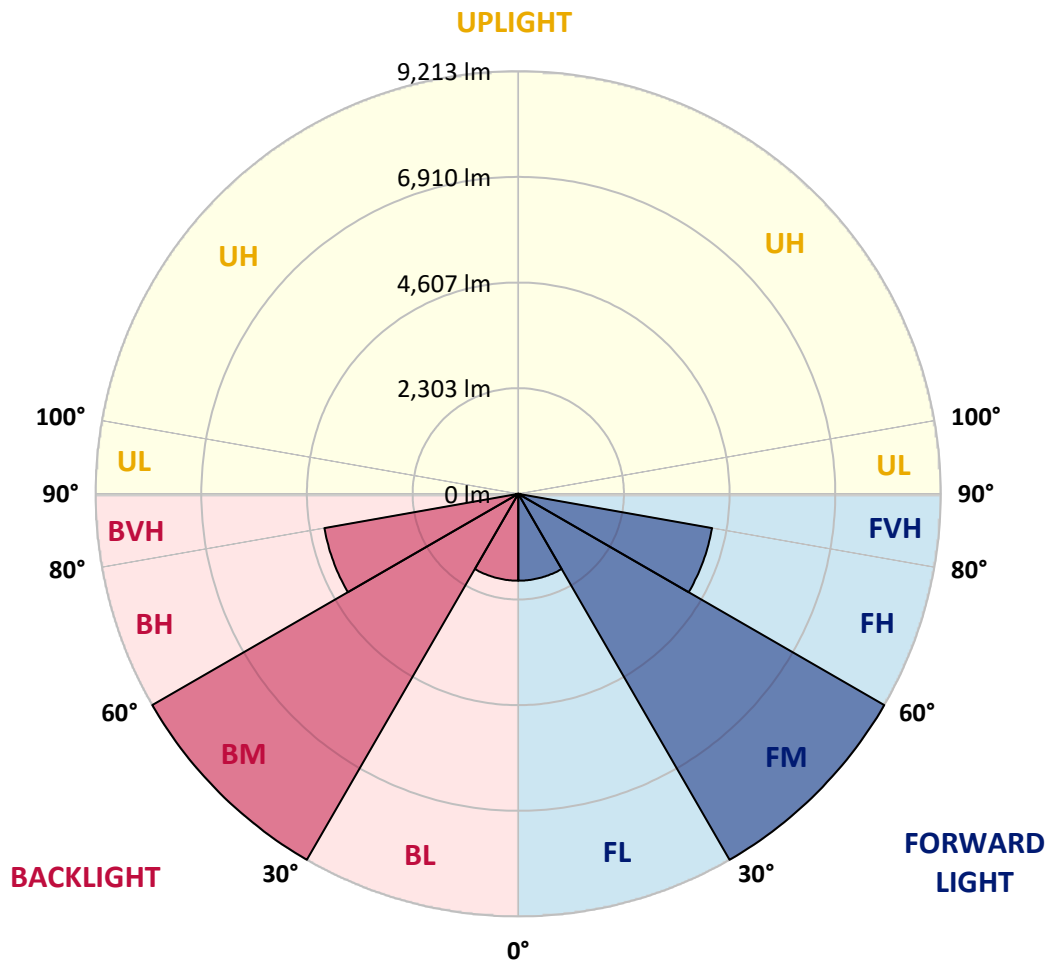
REPORT NUMBER: P650888
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.6	6.1			
FM (30°-60°)	9213.3	29.8			
FH (60°-80°)	4291.2	13.9			G2/5000
FVH (80°-90°)	52.3	0.2			G1/100
BL (0°-30°)	1893.6	6.1	B3/2500		
BM (30°-60°)	9213.3	29.8	B5		
BH (60°-80°)	4291.2	13.9	B4/5000		G2/5000
BVH (80°-90°)	52.3	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-G2

Type V Short





REPORT NUMBER: P650888
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9
2.5°	3749.6	3757.8	3751.3	3749.6	3748.0	3748.0	3748.0	3749.6	3756.2	3761.0	3757.8
5°	3797.1	3803.6	3800.4	3798.7	3797.1	3798.7	3795.4	3793.8	3798.7	3798.7	3797.1
7.5°	3856.0	3864.2	3860.9	3864.2	3865.8	3867.4	3859.3	3852.7	3851.1	3856.0	3852.7
10°	3936.2	3942.8	3944.4	3946.1	3949.3	3947.7	3937.8	3926.4	3924.8	3923.1	3921.5
12.5°	4026.2	4031.2	4032.8	4039.3	4044.2	4045.9	4034.4	4024.6	4008.2	4011.5	4004.9
15°	4127.7	4137.6	4135.9	4145.7	4158.8	4162.0	4150.6	4134.3	4119.5	4111.3	4106.4
17.5°	4252.1	4258.7	4255.4	4265.1	4281.5	4289.7	4279.9	4258.7	4243.9	4225.9	4216.1
20°	4399.4	4410.9	4414.1	4414.1	4428.9	4437.0	4422.3	4415.8	4392.8	4379.8	4371.5
22.5°	4566.3	4571.3	4581.0	4590.9	4605.6	4602.3	4597.4	4587.6	4566.3	4554.9	4541.7
25°	4754.5	4759.5	4784.0	4805.3	4810.2	4806.9	4800.3	4795.5	4775.8	4749.6	4739.8
27.5°	4973.8	4983.7	5016.4	5036.1	5036.1	5037.7	5024.6	5041.0	4998.4	4967.3	4964.0
30°	5248.8	5255.3	5283.2	5302.8	5293.0	5284.8	5281.6	5297.9	5252.0	5196.5	5183.3
32.5°	5520.5	5543.5	5567.9	5610.5	5576.2	5561.4	5558.2	5569.6	5517.2	5455.1	5437.1
35°	5811.8	5828.2	5874.0	5910.0	5878.9	5844.5	5859.3	5895.3	5833.1	5749.7	5746.4
37.5°	6134.3	6149.0	6207.9	6245.5	6222.6	6163.7	6188.2	6230.8	6168.7	6065.5	6044.3
40°	6469.7	6500.8	6574.5	6613.8	6576.1	6497.6	6543.4	6589.2	6533.6	6414.1	6366.6
42.5°	6846.2	6895.3	7001.7	7021.3	6949.4	6843.0	6923.1	6996.8	6957.5	6820.0	6802.0
45°	7286.5	7315.9	7446.9	7489.4	7389.6	7257.0	7356.8	7491.0	7461.6	7302.8	7268.4
47.5°	7779.1	7806.9	7942.7	8006.6	7880.6	7702.2	7882.2	8057.4	8039.4	7869.2	7852.8
50°	8361.7	8368.3	8556.5	8628.6	8502.5	8348.7	8509.1	8726.7	8654.7	8437.1	8433.8
52.5°	9000.0	9008.3	9245.5	9384.7	9314.3	9140.8	9330.6	9463.3	9279.9	8995.2	8973.9
55°	9553.3	9594.2	9918.2	10288.1	10384.7	10258.7	10316.0	10253.7	9802.0	9402.7	9340.5
57.5°	9779.1	9859.3	10352.0	11042.7	11671.1	11857.7	11415.8	10823.3	10009.9	9445.3	9384.7
60°	9227.5	9314.3	10078.6	11389.6	12993.5	13803.7	12561.4	10919.9	9536.9	8743.1	8648.2
62.5°	7389.6	7414.2	8538.5	10572.9	13764.4	15862.6	13044.2	10096.6	8160.5	7081.9	7044.2
64°	5317.6	5569.6	6761.1	9270.1	13427.2	16646.6	12766.0	8942.8	6628.5	5536.9	5360.1
65°	3977.1	4045.9	5450.1	7916.6	12833.2	16587.7	12226.0	7839.6	5489.4	4237.4	4040.9
67.5°	1502.4	1510.7	2011.5	3946.1	9136.0	14271.8	9330.6	4265.1	2312.6	1672.7	1612.1
70°	623.6	635.0	738.1	1327.4	3926.4	9163.7	4499.2	1538.4	846.1	685.8	675.9
72.5°	456.7	463.1	494.3	589.2	1207.8	3762.7	1479.6	653.0	495.9	443.5	438.7
75°	358.4	361.7	384.6	433.7	563.0	1042.6	615.4	448.4	378.1	340.4	337.2
77.5°	273.3	281.5	297.9	330.6	378.1	494.3	407.5	335.6	291.3	260.2	255.3
80°	188.2	198.1	229.2	242.2	253.6	320.8	278.2	253.6	227.5	189.8	178.4
82.5°	116.2	122.8	153.8	165.3	160.4	180.1	178.4	181.7	162.1	117.8	109.7
85°	60.6	63.8	83.5	86.7	80.2	73.7	91.7	106.4	99.8	67.1	65.4
87.5°	13.1	14.7	18.0	16.4	18.0	18.0	22.9	34.4	36.0	22.9	21.3
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)