

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: P647091

Luminaire Tested: **GALN-SA8C-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30537 lumens
Efficiency: N/A
Efficacy: 71.2 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

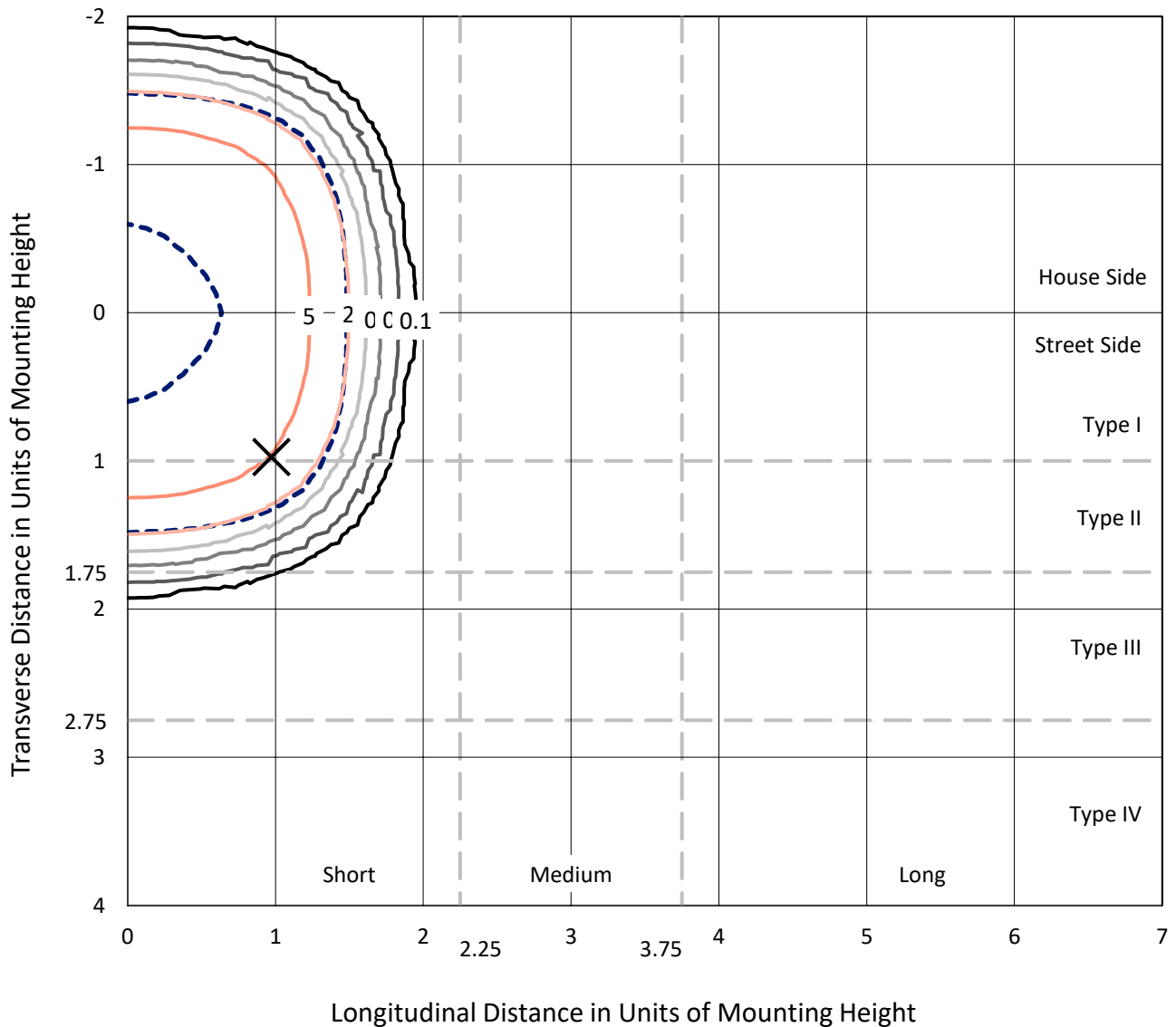
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647091
 CATALOG NUMBER: GALN-SA8C-835-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

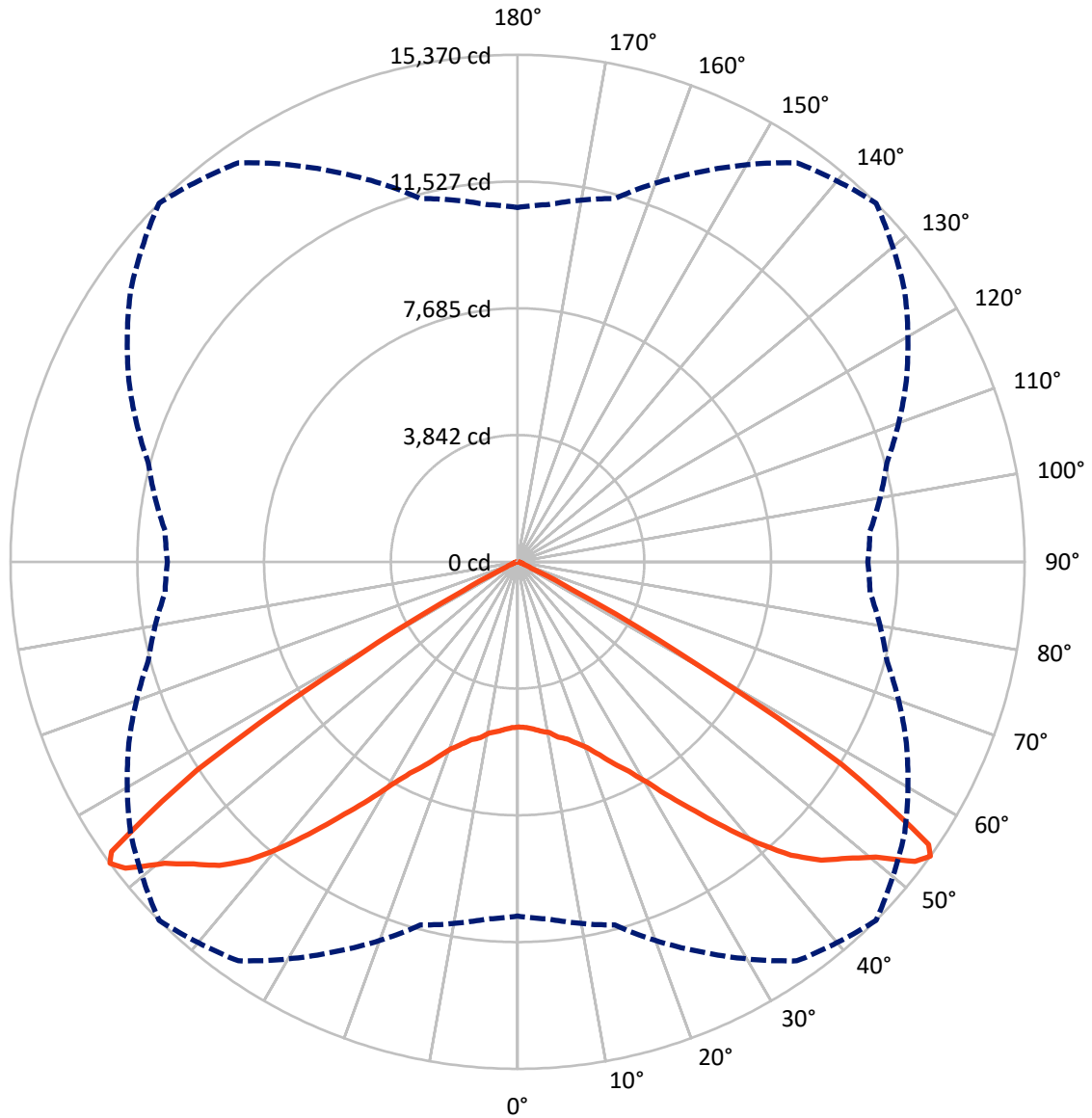
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - N/A

REPORT NUMBER: P647091
CATALOG NUMBER: GALN-SA8C-835-U-5NQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P647091
 CATALOG NUMBER: GALN-SA8C-835-U-5NQ-GRSBK

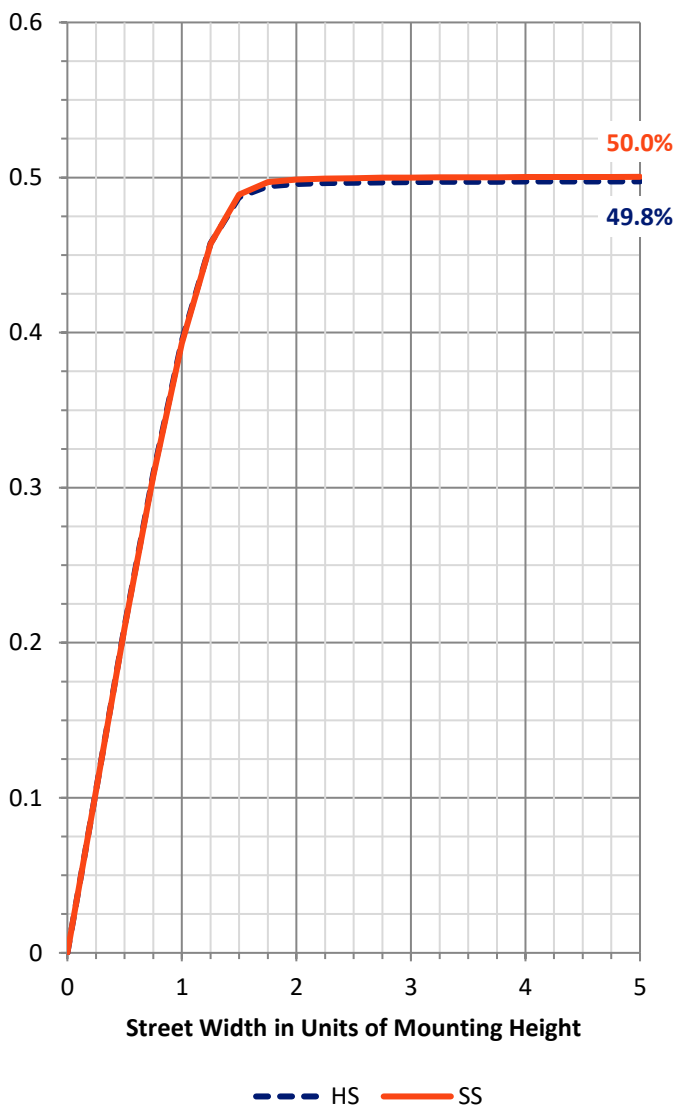
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15268.5	0.0	15268.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15268.5	0.0	15268.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30537.0	0.0	30537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.1	1.6
10°-20°	1587.0	5.2
20°-30°	3110.5	10.2
30°-40°	5593.4	18.3
40°-50°	9574.8	31.4
50°-60°	9264.6	30.3
60°-70°	793.1	2.6
70°-80°	94.0	0.3
80°-90°	29.5	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°	30537.0	100.0
0°-180°	30537.0	100.0

Coefficient of Utilization



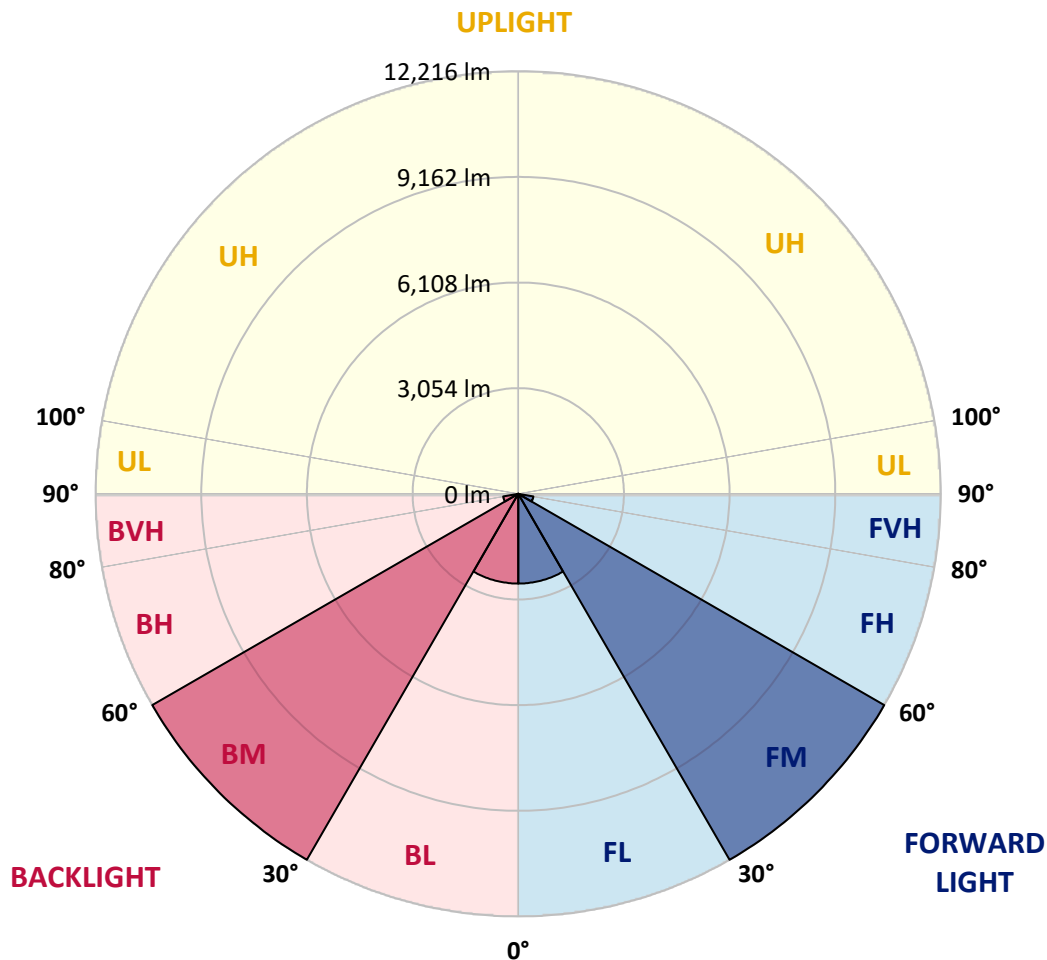
REPORT NUMBER: P647091
 CATALOG NUMBER: GALN-SA8C-835-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2593.8	8.5			
FM (30°-60°)	12216.4	40.0			
FH (60°-80°)	443.5	1.5			G0/660
FVH (80°-90°)	14.7	0.0			G1/100
BL (0°-30°)	2593.8	8.5	B4/5000		
BM (30°-60°)	12216.4	40.0	B5		
BH (60°-80°)	443.5	1.5	B1/500		G0/660
BVH (80°-90°)	14.7	0.0			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: P647091

CATALOG NUMBER: GALN-SA8C-835-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5007.1	5007.1	5007.1	5007.1	5007.1	5007.1	5007.1	5007.1	5007.1	5007.1	5007.1
2.5°	5031.3	5060.3	5041.0	5055.5	5055.5	5031.3	5045.8	4987.8	5026.5	4997.4	5002.3
5°	5108.7	5103.9	5103.9	5108.7	5089.3	5099.1	5079.7	5060.3	5045.8	5026.5	5084.5
7.5°	5205.5	5205.5	5171.6	5181.3	5171.6	5186.1	5147.4	5108.7	5094.2	5079.7	5070.0
10°	5297.4	5287.7	5273.2	5316.7	5282.9	5263.5	5244.1	5219.9	5166.8	5147.4	5128.0
12.5°	5432.8	5428.0	5408.7	5452.2	5432.8	5452.2	5379.6	5316.7	5307.1	5244.1	5278.0
15°	5592.5	5636.0	5602.1	5602.1	5592.5	5568.3	5539.3	5510.3	5423.1	5398.9	5403.8
17.5°	5800.5	5786.0	5790.8	5790.8	5839.2	5776.3	5718.2	5645.7	5602.1	5587.6	5539.3
20°	5998.9	6018.2	6013.4	6047.3	6076.2	6008.5	5945.6	5936.0	5815.0	5834.4	5766.6
22.5°	6347.2	6332.7	6356.9	6381.1	6361.7	6352.0	6294.0	6221.4	6115.0	6066.6	6056.9
25°	6714.9	6690.7	6647.1	6705.2	6734.2	6777.7	6666.5	6627.8	6463.3	6390.7	6395.5
27.5°	7029.3	7063.2	7111.5	7135.7	7208.3	7193.8	7116.4	6990.6	6864.8	6782.6	6729.3
30°	7459.9	7479.2	7561.5	7595.3	7721.1	7755.0	7634.0	7488.9	7266.4	7159.9	7097.0
32.5°	7856.5	7992.0	7987.2	8156.5	8359.7	8500.0	8282.3	8059.7	7837.2	7711.5	7600.2
35°	8500.0	8475.8	8616.1	8795.1	9124.1	9283.7	9046.7	8790.3	8451.6	8248.4	8161.4
37.5°	9099.9	9109.6	9298.2	9583.7	9961.0	10207.7	9999.7	9578.8	9230.5	8969.3	8848.3
40°	9970.7	9990.1	10183.5	10507.7	10933.4	11199.5	10957.6	10531.9	10067.4	9864.2	9864.2
42.5°	10991.4	11073.7	11199.5	11480.1	11862.3	12157.4	11939.7	11605.9	11136.6	10875.3	10914.1
45°	12041.3	12080.0	12162.2	12578.3	12757.3	12902.4	12699.2	12544.4	12229.9	11910.7	11857.4
47.5°	13023.3	13037.9	13279.8	13410.4	13550.7	13429.7	13560.3	13357.1	13004.0	12694.4	12631.5
50°	13458.8	13434.6	13778.1	14174.7	14281.1	14068.3	13957.1	13821.6	13284.6	12912.1	12747.6
52.5°	12191.2	12331.5	12970.2	14073.2	14905.3	15084.3	14436.0	13811.9	12810.5	12084.8	11973.6
54°	10739.9	10870.5	11397.8	13033.0	14765.0	15369.7	14324.7	12999.1	11586.5	10725.4	10614.1
55°	9303.1	9158.0	10115.8	11784.9	14107.0	15118.1	13884.5	11949.4	10333.6	9545.0	9390.1
57.5°	5036.2	5060.3	5868.3	7445.4	9912.6	11591.4	10236.8	8083.9	6105.3	5219.9	5142.6
60°	1596.5	1635.1	1988.4	3009.1	4736.2	5655.4	4847.5	3246.2	2244.7	1799.6	1727.1
62.5°	498.3	517.6	566.0	841.8	1296.5	1852.9	1451.4	870.8	648.2	595.1	604.7
65°	304.7	304.7	309.6	328.9	387.0	449.9	435.4	382.2	367.7	358.0	353.1
67.5°	198.3	193.5	203.2	217.7	227.4	232.2	246.7	261.2	256.4	246.7	246.7
70°	121.0	116.1	125.7	145.2	149.9	159.7	174.1	193.5	188.7	179.0	183.8
72.5°	67.7	67.7	72.6	87.1	101.6	111.3	125.7	140.3	145.2	140.3	140.3
75°	24.2	29.0	38.7	53.2	62.9	77.4	91.9	106.4	121.0	111.3	106.4
77.5°	9.7	9.7	19.3	33.8	48.4	62.9	87.1	101.6	111.3	101.6	91.9
80°	4.9	4.9	14.5	29.0	43.5	58.0	72.6	87.1	91.9	82.2	72.6
82.5°	4.9	4.9	14.5	29.0	43.5	53.2	77.4	87.1	96.8	87.1	72.6
85°	0.0	4.9	14.5	29.0	38.7	43.5	43.5	29.0	24.2	14.5	14.5
87.5°	0.0	0.0	4.9	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)