

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: P459355

Luminaire Tested: **GALN-SA8B-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459355
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-SA8B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 44670 lumens
Efficiency: N/A
Efficacy: 137.4 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

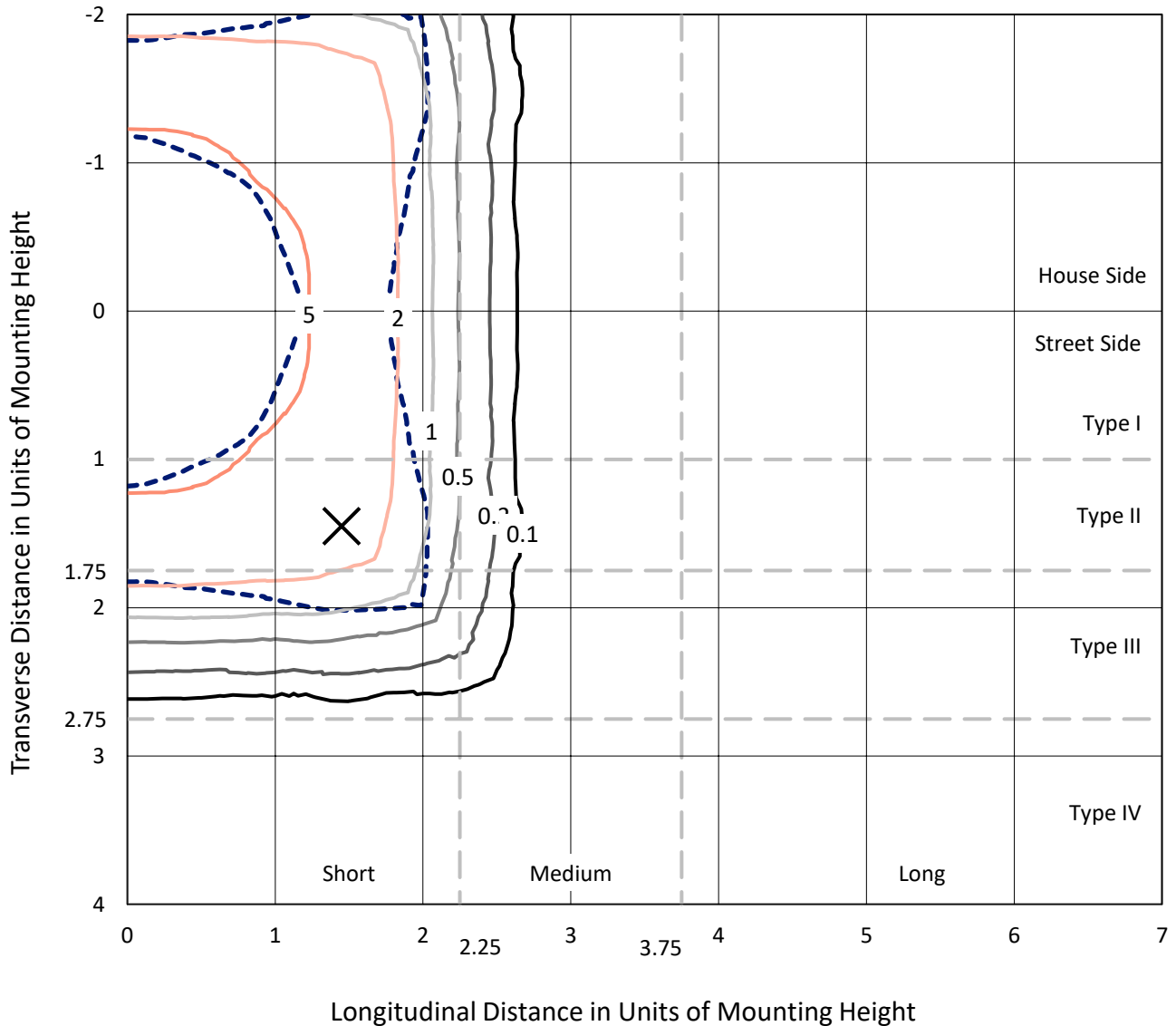
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459355
 CATALOG NUMBER: GALN-SA8B-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

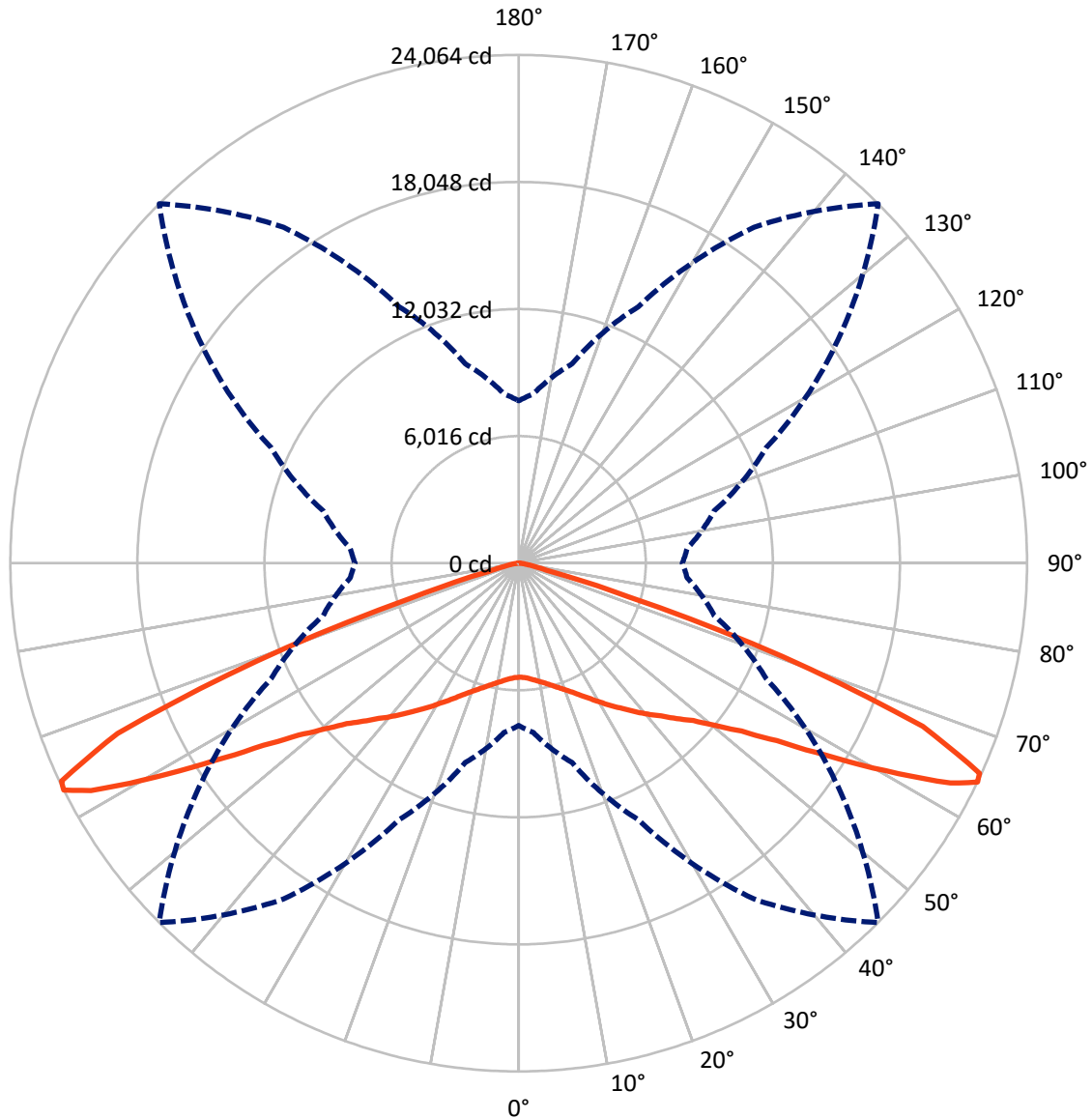
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

REPORT NUMBER: P459355
CATALOG NUMBER: GALN-SA8B-735-U-5NQ

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	22335.0	0.0	22335.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22335.0	0.0	22335.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44670.0	0.0	44670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.4	1.2
10°-20°	1711.0	3.8
20°-30°	3233.2	7.2
30°-40°	5354.6	12.0
40°-50°	8359.4	18.7
50°-60°	12923.4	28.9
60°-70°	11143.7	24.9
70°-80°	1262.9	2.8
80°-90°	151.3	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°	44670.0	100.0
0°-180°	44670.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459355

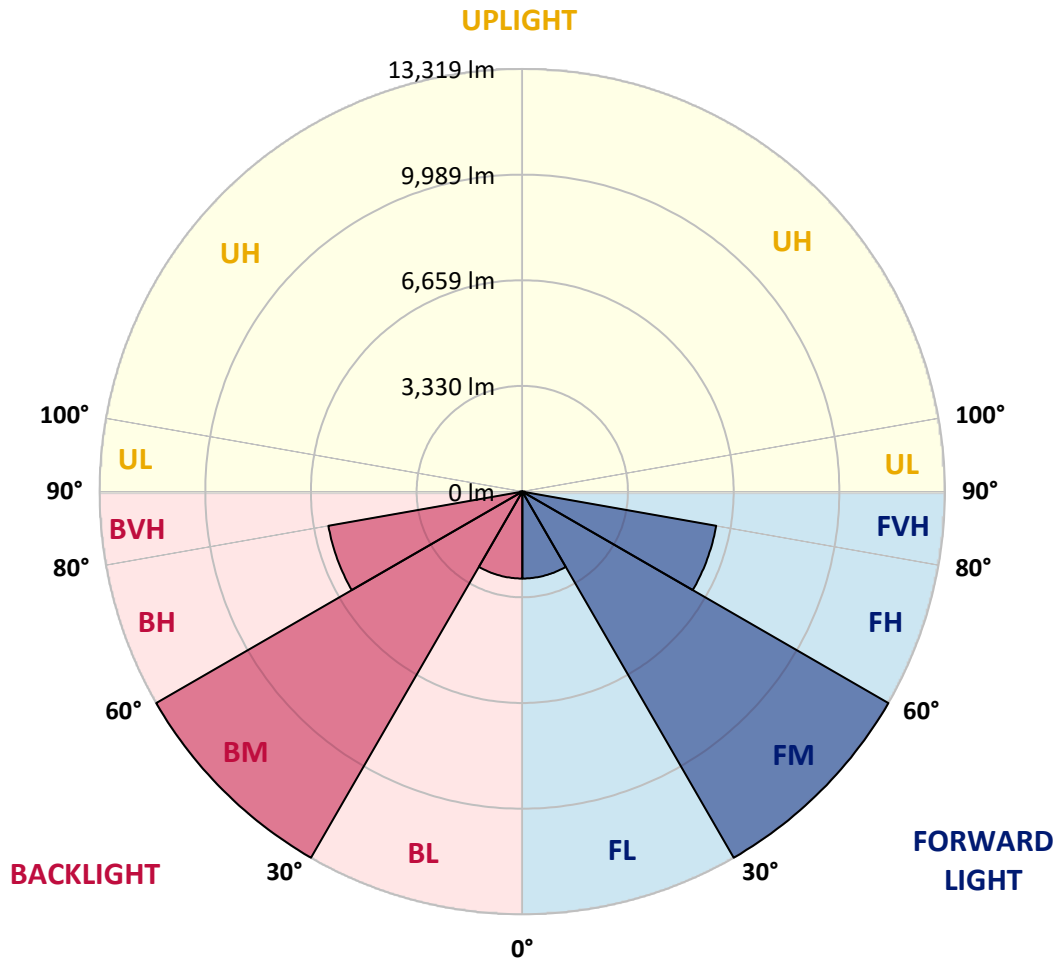
CATALOG NUMBER: GALN-SA8B-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2737.3	6.1			
FM (30°-60°)	13318.7	29.8			
FH (60°-80°)	6203.3	13.9			G3/7500
FVH (80°-90°)	75.7	0.2			G1/100
BL (0°-30°)	2737.3	6.1	B4/5000		
BM (30°-60°)	13318.7	29.8	B5		
BH (60°-80°)	6203.3	13.9	B5		G3/7500
BVH (80°-90°)	75.7	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





REPORT NUMBER: P459355

CATALOG NUMBER: GALN-SA8B-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5399.1	5399.1	5399.1	5399.1	5399.1	5399.1	5399.1	5399.1	5399.1	5399.1	5399.1
2.5°	5420.4	5432.2	5422.8	5420.4	5418.0	5418.0	5418.0	5420.4	5429.9	5437.0	5432.2
5°	5489.0	5498.5	5493.8	5491.4	5489.0	5489.0	5486.7	5484.3	5491.4	5491.4	5489.0
7.5°	5574.2	5586.0	5581.3	5586.0	5588.4	5590.8	5578.9	5569.5	5567.1	5574.2	5569.5
10°	5690.1	5699.6	5702.0	5704.3	5709.1	5706.7	5692.5	5675.9	5673.6	5671.2	5668.8
12.5°	5820.3	5827.4	5829.7	5839.2	5846.3	5848.7	5832.1	5817.9	5794.2	5799.0	5789.5
15°	5967.0	5981.1	5978.8	5993.0	6011.9	6016.6	6000.1	5976.4	5955.1	5943.3	5936.2
17.5°	6146.8	6156.2	6151.5	6165.7	6189.4	6201.2	6187.0	6156.2	6134.9	6108.9	6094.7
20°	6359.7	6376.3	6381.0	6381.0	6402.3	6414.1	6392.8	6383.4	6350.2	6331.3	6319.5
22.5°	6601.0	6608.1	6622.3	6636.5	6657.8	6653.1	6646.0	6631.8	6601.0	6584.5	6565.5
25°	6873.1	6880.2	6915.7	6946.5	6953.6	6948.8	6939.4	6932.3	6903.9	6866.0	6851.8
27.5°	7190.2	7204.3	7251.7	7280.1	7280.1	7282.4	7263.5	7287.2	7225.6	7180.7	7176.0
30°	7587.6	7597.1	7637.3	7665.7	7651.5	7639.7	7635.0	7658.6	7592.4	7511.9	7493.0
32.5°	7980.4	8013.5	8049.0	8110.5	8060.8	8039.5	8034.8	8051.4	7975.7	7885.7	7859.7
35°	8401.5	8425.2	8491.4	8543.5	8498.5	8448.8	8470.1	8522.2	8432.3	8311.6	8306.9
37.5°	8867.6	8888.9	8974.1	9028.5	8995.4	8910.2	8945.7	9007.2	8917.3	8768.2	8737.5
40°	9352.6	9397.6	9504.1	9560.8	9506.4	9392.9	9459.1	9525.4	9444.9	9272.2	9203.6
42.5°	9896.8	9967.8	10121.6	10150.0	10045.9	9892.1	10008.0	10114.5	10057.7	9859.0	9832.9
45°	10533.3	10575.8	10765.1	10826.6	10682.3	10490.7	10635.0	10829.0	10786.4	10556.9	10507.2
47.5°	11245.4	11285.6	11482.0	11574.3	11392.1	11134.2	11394.5	11647.6	11621.6	11375.5	11351.9
50°	12087.7	12097.2	12369.2	12473.3	12291.2	12068.8	12300.6	12615.3	12511.2	12196.5	12191.8
52.5°	13010.4	13022.2	13365.3	13566.4	13464.7	13213.9	13488.3	13680.0	13415.0	13003.3	12972.6
55°	13810.1	13869.3	14337.7	14872.4	15012.0	14829.8	14912.6	14822.7	14169.7	13592.4	13502.5
57.5°	14136.6	14252.5	14964.7	15963.1	16871.7	17141.4	16502.6	15646.1	14470.2	13654.0	13566.4
60°	13339.3	13464.7	14569.6	16464.7	18783.4	19954.5	18158.7	15785.7	13786.4	12639.0	12501.7
62.5°	10682.3	10717.8	12343.2	15284.1	19897.7	22930.9	18856.7	14595.6	11796.7	10237.5	10183.1
64°	7687.0	8051.4	9773.8	13400.8	19410.3	24064.2	18454.5	12927.6	9582.1	8004.0	7748.5
65°	5749.3	5848.7	7878.6	11444.1	18551.5	23979.0	17673.7	11332.9	7935.4	6125.5	5841.6
67.5°	2172.0	2183.8	2907.8	5704.3	13206.8	20631.2	13488.3	6165.7	3343.1	2418.0	2330.5
70°	901.4	918.0	1067.0	1918.8	5675.9	13247.0	6504.0	2224.0	1223.2	991.3	977.1
72.5°	660.1	669.6	714.5	851.7	1746.1	5439.3	2138.8	944.0	716.9	641.2	634.1
75°	518.1	522.9	556.0	627.0	813.9	1507.1	889.6	648.3	546.5	492.1	487.4
77.5°	395.1	406.9	430.6	477.9	546.5	714.5	589.1	485.0	421.1	376.2	369.1
80°	272.1	286.3	331.2	350.2	366.7	463.7	402.2	366.7	328.9	274.5	257.9
82.5°	168.0	177.4	222.4	239.0	231.9	260.3	257.9	262.6	234.2	170.3	158.5
85°	87.5	92.3	120.7	125.4	115.9	106.5	132.5	153.8	144.3	97.0	94.6
87.5°	18.9	21.3	26.0	23.7	26.0	26.0	33.1	49.7	52.1	33.1	30.8
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)