

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: P647533

Luminaire Tested: **GALN-SA7D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647533
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-SA7D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44029.7 lumens
Efficiency: N/A
Efficacy: 101.7 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

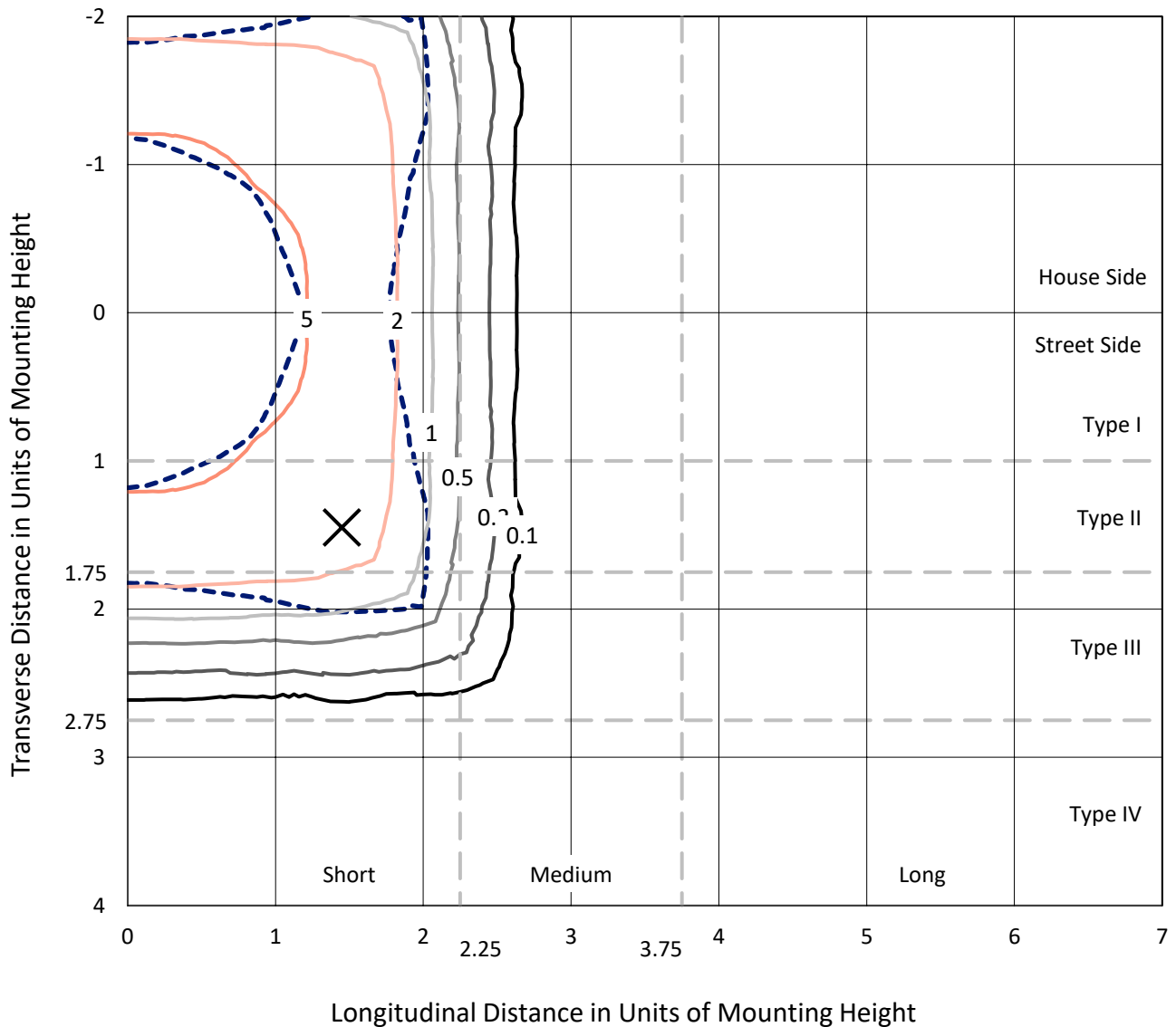
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

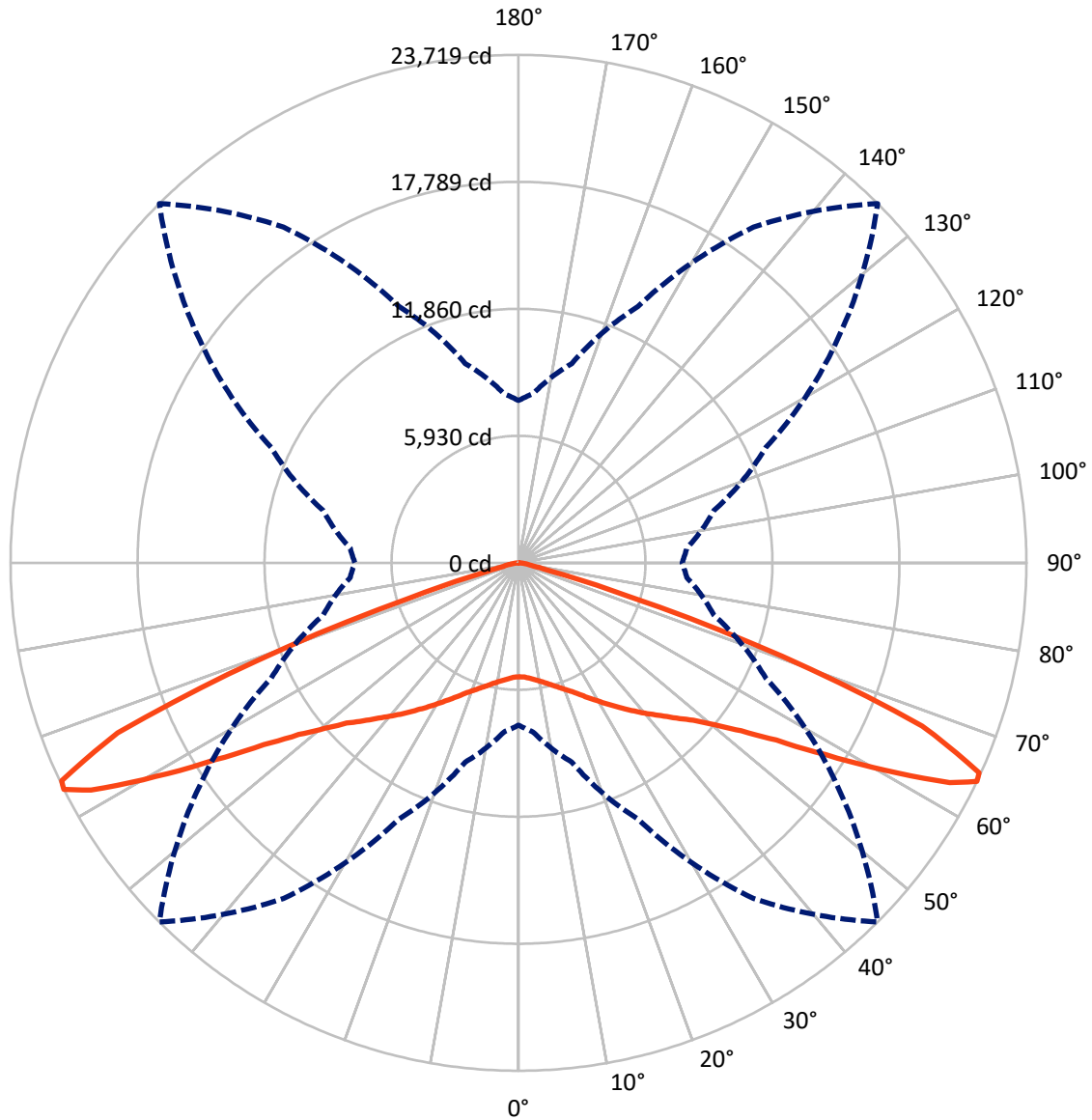
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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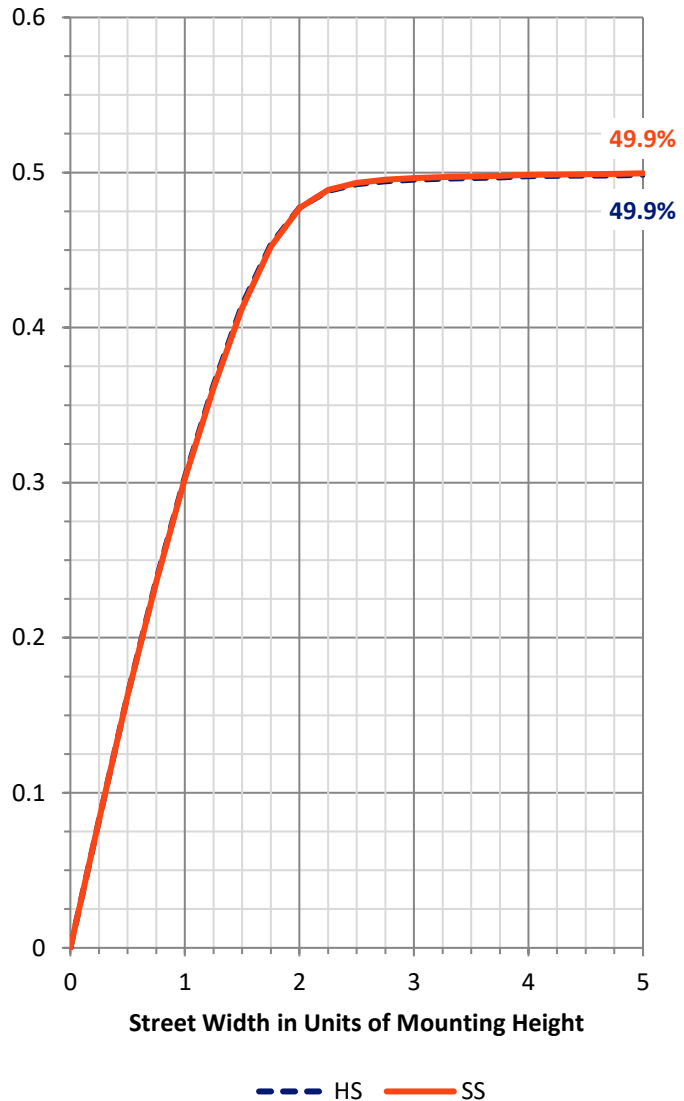
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22014.8	0.0	22014.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22014.8	0.0	22014.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	44029.7	0.0	44029.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.8	1.2
10°-20°	1686.4	3.8
20°-30°	3186.9	7.2
30°-40°	5277.9	12.0
40°-50°	8239.6	18.7
50°-60°	12738.2	28.9
60°-70°	10984.0	24.9
70°-80°	1244.8	2.8
80°-90°	149.1	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°	44029.7	100.0
0°-180°	44029.7	100.0

Coefficient of Utilization



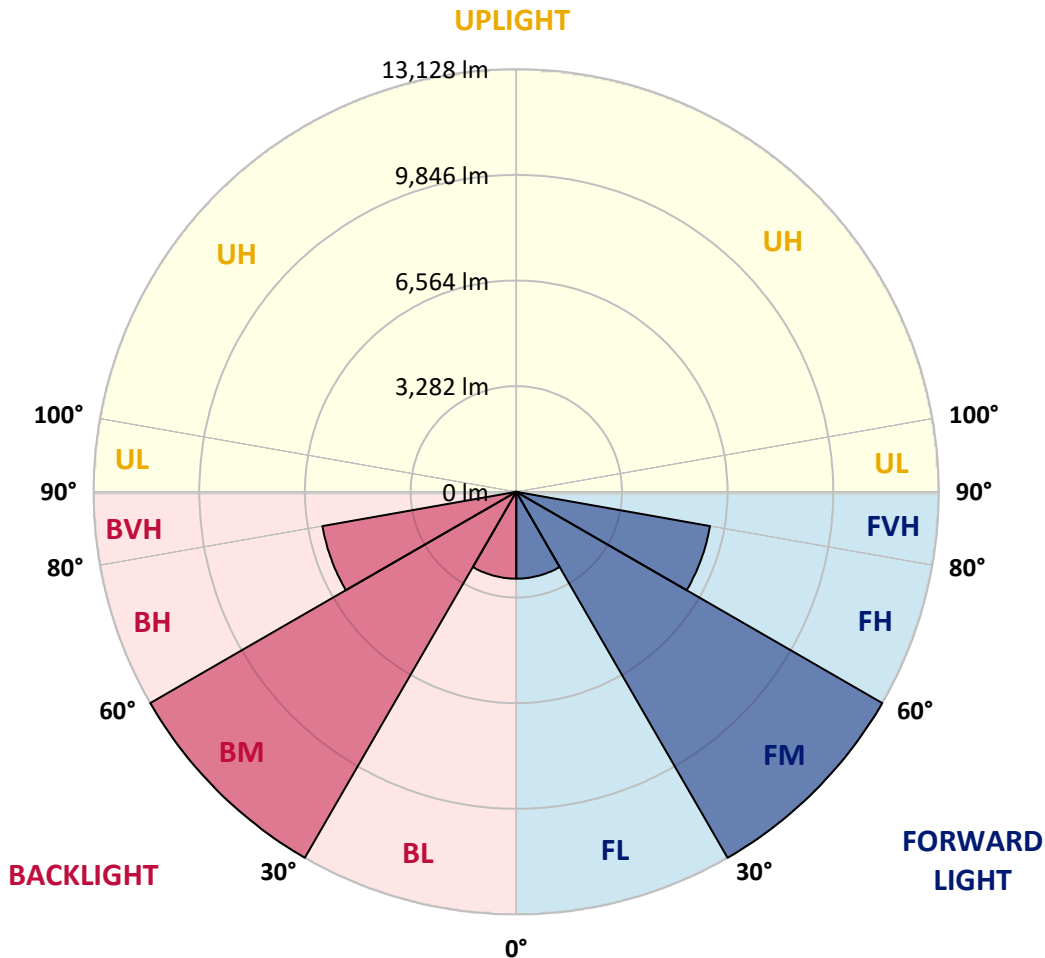
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.1	6.1			
FM (30°-60°)	13127.8	29.8			
FH (60°-80°)	6114.4	13.9			G3/7500
FVH (80°-90°)	74.6	0.2			G1/100
BL (0°-30°)	2698.1	6.1	B4/5000		
BM (30°-60°)	13127.8	29.8	B5		
BH (60°-80°)	6114.4	13.9	B5		G3/7500
BVH (80°-90°)	74.6	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°	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7
2.5°	5342.7	5354.4	5345.1	5342.7	5340.4	5340.4	5340.4	5342.7	5352.0	5359.0	5354.4
5°	5410.4	5419.7	5415.0	5412.6	5410.4	5410.4	5408.0	5405.7	5412.6	5412.6	5410.4
7.5°	5494.3	5506.0	5501.3	5506.0	5508.3	5510.6	5498.9	5489.6	5487.3	5494.3	5489.6
10°	5608.6	5617.9	5620.2	5622.6	5627.2	5624.9	5610.9	5594.5	5592.3	5589.9	5587.6
12.5°	5736.8	5743.9	5746.1	5755.5	5762.5	5764.8	5748.5	5734.5	5711.2	5715.8	5706.5
15°	5881.4	5895.4	5893.1	5907.0	5925.7	5930.4	5914.1	5890.7	5869.8	5858.1	5851.1
17.5°	6058.6	6068.0	6063.3	6077.3	6100.6	6112.3	6098.3	6068.0	6047.0	6021.3	6007.3
20°	6268.5	6284.8	6289.5	6289.5	6310.5	6322.2	6301.2	6291.9	6259.2	6240.6	6228.9
22.5°	6506.4	6513.4	6527.4	6541.4	6562.4	6557.7	6550.7	6536.7	6506.4	6490.1	6471.4
25°	6774.6	6781.6	6816.6	6846.9	6853.9	6849.2	6839.9	6832.9	6804.9	6767.6	6753.6
27.5°	7087.1	7101.1	7147.7	7175.7	7175.7	7178.0	7159.4	7182.7	7122.1	7077.8	7073.1
30°	7478.9	7488.2	7527.8	7555.8	7541.9	7530.2	7525.5	7548.8	7483.5	7404.2	7385.6
32.5°	7866.0	7898.7	7933.6	7994.3	7945.3	7924.3	7919.7	7935.9	7861.3	7772.7	7747.1
35°	8281.1	8304.4	8369.7	8421.0	8376.7	8327.8	8348.7	8400.0	8311.4	8192.5	8187.8
37.5°	8740.5	8761.5	8845.5	8899.1	8866.5	8782.4	8817.4	8878.1	8789.5	8642.5	8612.2
40°	9218.6	9262.9	9367.8	9423.8	9370.2	9258.2	9323.5	9388.8	9309.6	9139.3	9071.7
42.5°	9754.9	9824.9	9976.5	10004.5	9901.9	9750.3	9864.5	9969.5	9913.5	9717.7	9692.0
45°	10382.3	10424.2	10610.8	10671.4	10529.2	10340.3	10482.6	10673.8	10631.8	10405.6	10356.6
47.5°	11084.2	11123.8	11317.4	11408.4	11228.8	10974.6	11231.1	11480.7	11455.0	11212.5	11189.1
50°	11914.4	11923.8	12191.9	12294.5	12115.0	11895.7	12124.3	12434.4	12331.9	12021.7	12017.0
52.5°	12823.9	12835.6	13173.7	13371.9	13271.7	13024.5	13294.9	13483.9	13222.7	12816.9	12786.6
55°	13612.1	13670.5	14132.2	14659.2	14796.8	14617.3	14698.9	14610.2	13966.6	13397.6	13309.0
57.5°	13934.0	14048.2	14750.2	15734.3	16629.8	16895.7	16266.0	15421.8	14262.8	13458.2	13371.9
60°	13148.1	13271.7	14360.7	16228.7	18514.1	19668.5	17898.4	15559.4	13588.8	12457.8	12322.5
62.5°	10529.2	10564.2	12166.3	15065.0	19612.5	22602.2	18586.4	14386.4	11627.6	10090.8	10037.1
64°	7576.8	7935.9	9633.6	13208.7	19132.1	23719.2	18190.0	12742.3	9444.8	7889.3	7637.5
65°	5666.9	5764.8	7765.7	11280.1	18285.6	23635.2	17420.3	11170.5	7821.7	6037.6	5757.8
67.5°	2140.8	2152.5	2866.1	5622.6	13017.5	20335.4	13294.9	6077.3	3295.2	2383.4	2297.1
70°	888.5	904.8	1051.7	1891.3	5594.5	13057.2	6410.8	2192.1	1205.7	977.1	963.2
72.5°	650.7	660.0	704.3	839.5	1721.0	5361.4	2108.1	930.5	706.6	632.0	625.0
75°	510.8	515.4	548.0	618.0	802.3	1485.5	876.9	639.0	538.7	485.1	480.4
77.5°	389.5	401.1	424.5	471.1	538.7	704.3	580.7	478.1	415.1	370.8	363.8
80°	268.2	282.2	326.5	345.1	361.4	457.1	396.4	361.4	324.2	270.5	254.2
82.5°	165.6	174.9	219.2	235.5	228.6	256.5	254.2	258.9	230.9	167.9	156.2
85°	86.3	91.0	118.9	123.6	114.2	104.9	130.6	151.6	142.3	95.6	93.3
87.5°	18.6	21.0	25.7	23.3	25.7	25.7	32.7	48.9	51.3	32.7	30.3
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)