

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: P648522

Luminaire Tested: **GALN-SA7B-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27951.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

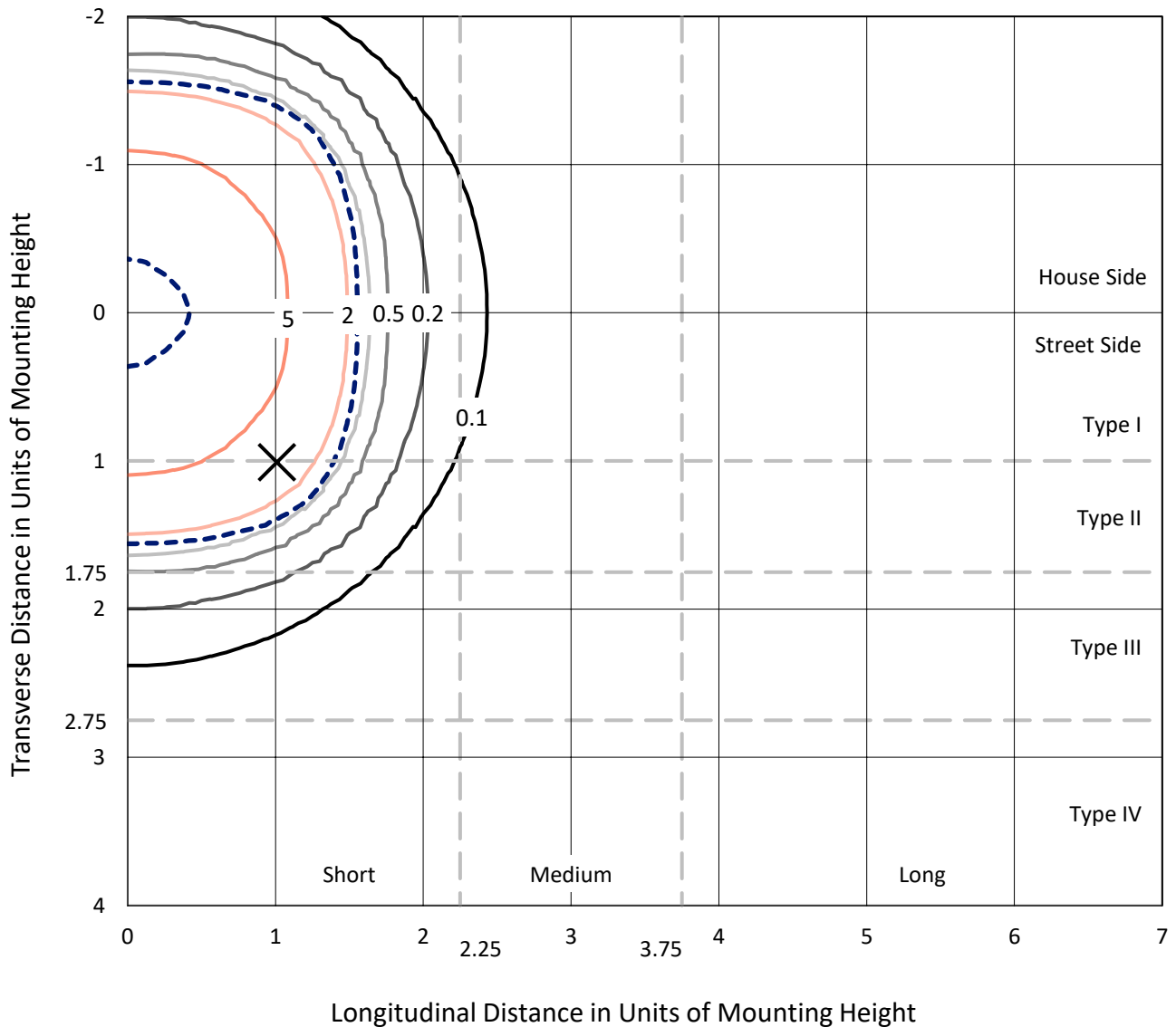
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

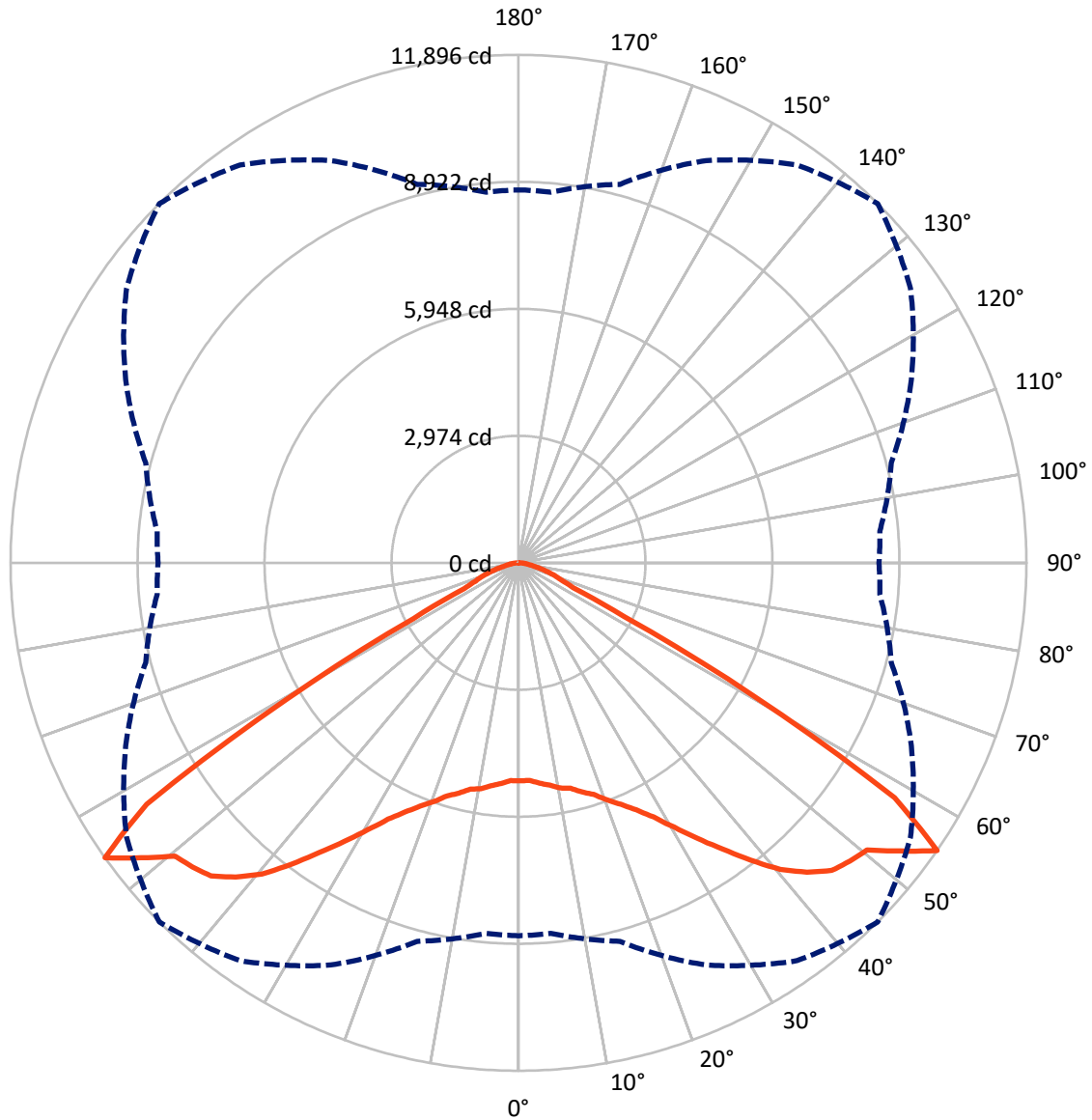
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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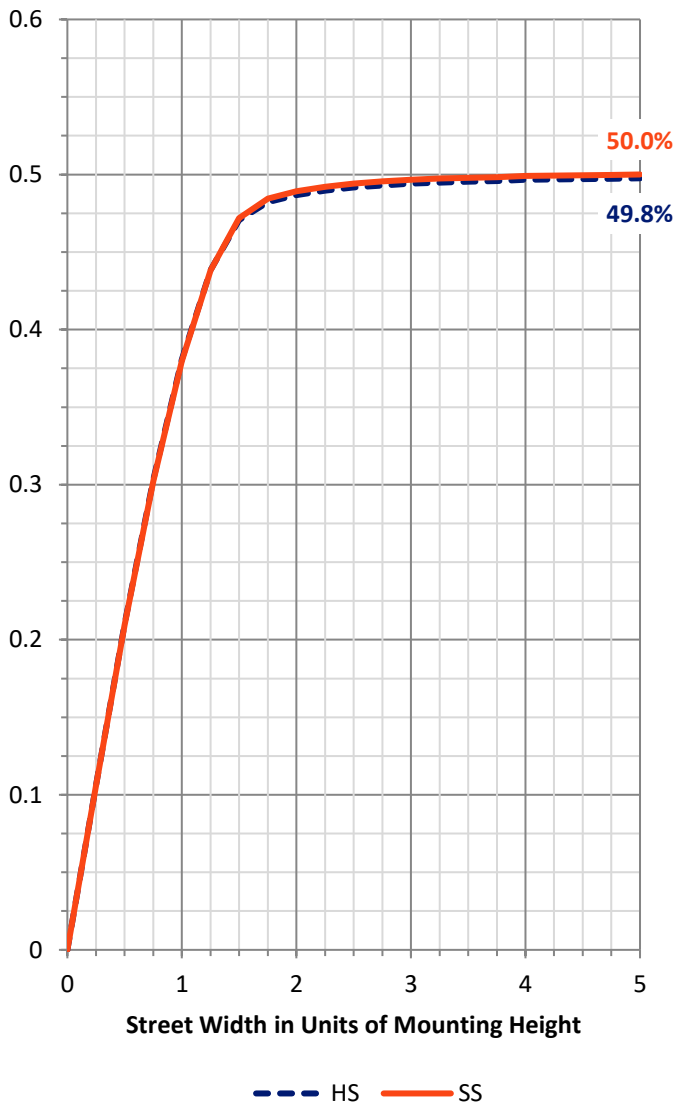
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13975.8	0.0	13975.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13975.8	0.0	13975.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	27951.5	0.0	27951.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.6	1.8
10°-20°	1579.7	5.7
20°-30°	2945.7	10.5
30°-40°	4932.0	17.6
40°-50°	7674.6	27.5
50°-60°	7968.6	28.5
60°-70°	1689.9	6.0
70°-80°	556.5	2.0
80°-90°	106.0	0.4
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°	27951.5	100.0
0°-180°	27951.5	100.0



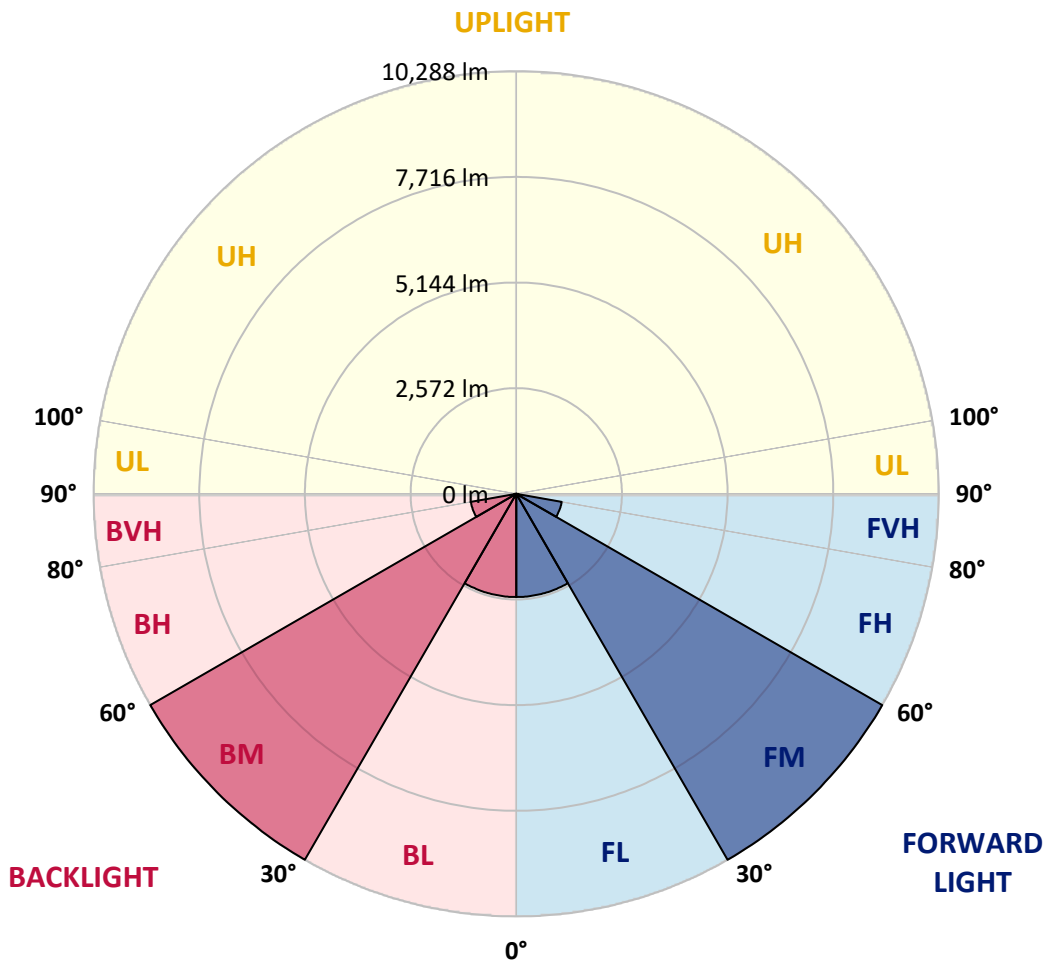
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2512.0	9.0			
FM (30°-60°)	10287.6	36.8			
FH (60°-80°)	1123.2	4.0			G1/1800
FVH (80°-90°)	53.0	0.2			G1/100
BL (0°-30°)	2512.0	9.0	B4/5000		
BM (30°-60°)	10287.6	36.8	B5		
BH (60°-80°)	1123.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	53.0	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5103.5	5103.5	5103.5	5103.5	5103.5	5103.5	5103.5	5103.5	5103.5	5103.5	5103.5
2.5°	5164.4	5140.7	5100.1	5130.5	5154.2	5103.5	5123.8	5133.9	5127.2	5100.1	5110.2
5°	5238.7	5225.1	5191.4	5215.0	5184.6	5184.6	5164.4	5137.3	5177.8	5171.1	5188.0
7.5°	5238.7	5221.7	5289.3	5245.4	5258.9	5258.9	5225.1	5198.1	5218.4	5188.0	5171.1
10°	5343.3	5367.0	5336.6	5346.7	5340.0	5363.6	5313.0	5296.1	5279.1	5269.0	5248.8
12.5°	5468.3	5451.4	5461.6	5454.8	5478.4	5417.7	5387.3	5350.1	5380.5	5336.6	5367.0
15°	5569.6	5559.5	5569.6	5596.6	5573.0	5569.6	5515.6	5478.4	5431.1	5441.3	5394.0
17.5°	5708.1	5698.0	5701.3	5725.0	5721.6	5704.8	5664.2	5593.3	5576.4	5549.4	5519.0
20°	5914.2	5897.2	5890.5	5900.6	5917.5	5931.1	5849.9	5822.9	5765.5	5721.6	5671.0
22.5°	6089.8	6083.0	6110.1	6066.1	6103.3	6143.8	6066.1	6052.7	5910.8	5887.1	5833.1
25°	6333.0	6322.8	6306.0	6370.1	6414.0	6410.7	6336.3	6262.0	6154.0	6127.0	6127.0
27.5°	6589.6	6532.3	6620.1	6636.9	6714.6	6738.3	6674.1	6566.0	6464.7	6407.3	6420.8
30°	6910.5	6856.5	6876.8	6998.4	7099.7	7187.5	7025.4	6866.6	6724.8	6623.5	6606.6
32.5°	7231.4	7177.4	7238.1	7356.4	7559.0	7690.8	7532.0	7255.0	7089.5	6940.9	6971.4
35°	7491.5	7532.0	7629.9	7809.0	8018.4	8231.2	7977.8	7765.1	7528.6	7363.2	7386.7
37.5°	7910.3	8035.3	8113.0	8319.0	8616.2	8835.8	8572.3	8295.3	8042.0	7825.9	7751.5
40°	8457.5	8541.9	8629.8	8873.0	9224.2	9443.8	9193.8	8832.4	8582.5	8359.5	8349.4
42.5°	9058.7	9139.7	9230.9	9528.2	9737.5	9903.1	9673.4	9480.9	9203.9	9028.3	9018.1
45°	9757.8	9700.4	9801.8	9997.7	10173.3	10281.3	10132.7	10038.2	9838.9	9676.8	9659.9
47.5°	10223.9	10173.3	10355.6	10531.4	10558.4	10440.1	10470.5	10558.4	10348.9	10082.1	10166.6
50°	10494.2	10494.2	10615.8	10777.9	10727.2	10575.2	10815.0	10821.8	10612.4	10375.9	10375.9
52.5°	10024.7	10129.4	10473.9	11004.2	11173.0	11216.9	11162.9	10933.3	10386.1	9903.1	9879.4
55°	8734.4	8710.8	9176.9	10392.8	11375.7	11895.9	11206.8	10149.6	9038.4	8494.6	8440.6
57.5°	5681.1	5708.1	6403.9	7643.5	9416.7	10386.1	9224.2	7738.1	6403.9	5654.0	5725.0
60°	2556.8	2648.0	3070.2	3995.6	5519.0	6309.3	5532.5	4198.4	3222.2	2796.6	2833.8
62.5°	1469.2	1486.1	1503.0	1783.4	2350.8	2779.7	2442.0	1884.7	1661.8	1587.5	1587.5
65°	1239.6	1229.5	1232.8	1256.5	1317.2	1405.1	1367.9	1317.2	1324.1	1317.2	1307.1
67.5°	1053.8	1067.3	1057.2	1074.0	1077.5	1091.0	1114.6	1134.9	1138.2	1145.0	1138.2
70°	864.7	868.0	874.8	888.3	891.7	901.8	935.6	952.4	962.6	962.6	976.1
72.5°	662.0	658.7	665.4	678.9	695.8	699.1	729.5	753.2	766.7	749.8	753.2
75°	435.7	439.1	449.2	459.4	483.0	506.6	516.8	540.4	543.8	550.5	533.7
77.5°	260.1	266.8	276.9	297.2	317.5	337.8	361.4	378.3	385.1	378.3	358.0
80°	168.9	168.9	182.4	199.3	222.9	239.8	253.3	266.8	276.9	266.8	260.1
82.5°	104.7	104.7	121.6	141.9	158.7	168.9	189.2	206.0	216.2	209.4	199.3
85°	54.0	57.4	70.9	87.9	101.3	108.1	104.7	94.6	84.4	81.0	74.3
87.5°	16.9	16.9	20.3	20.3	16.9	16.9	20.3	16.9	20.3	20.3	20.3
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)