

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: P647122

Luminaire Tested: **GALN-SA8C-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44373.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

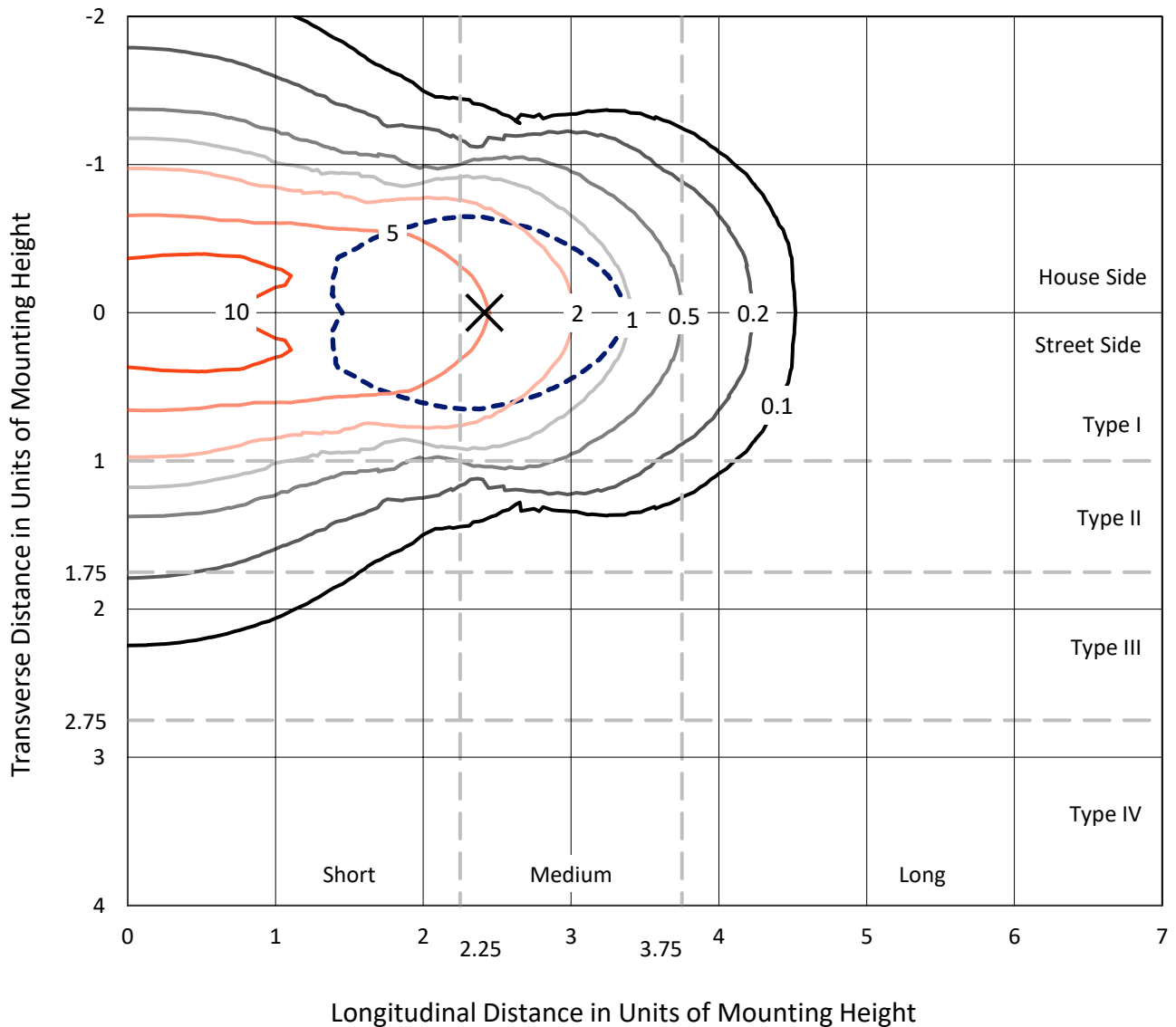
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

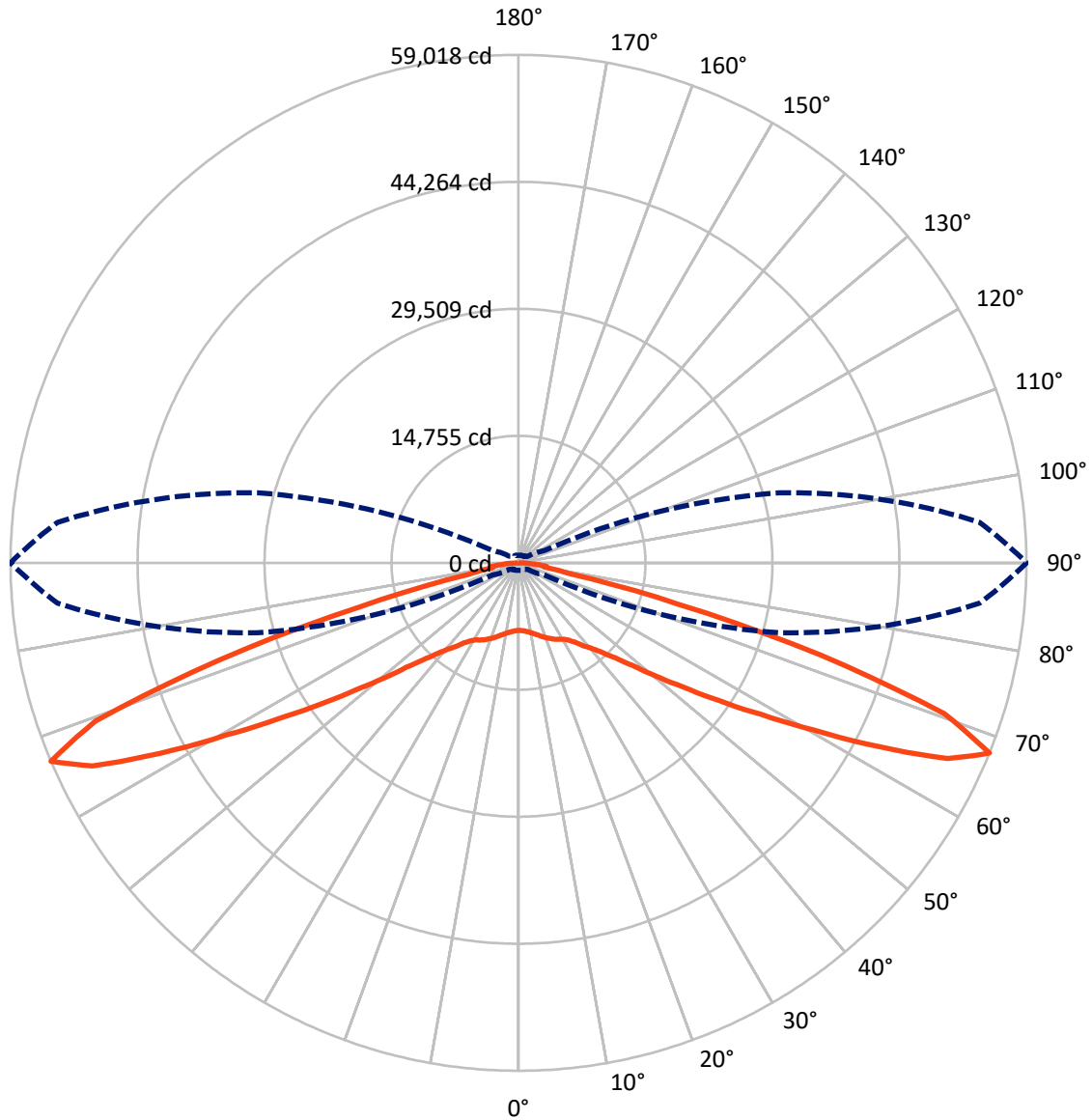
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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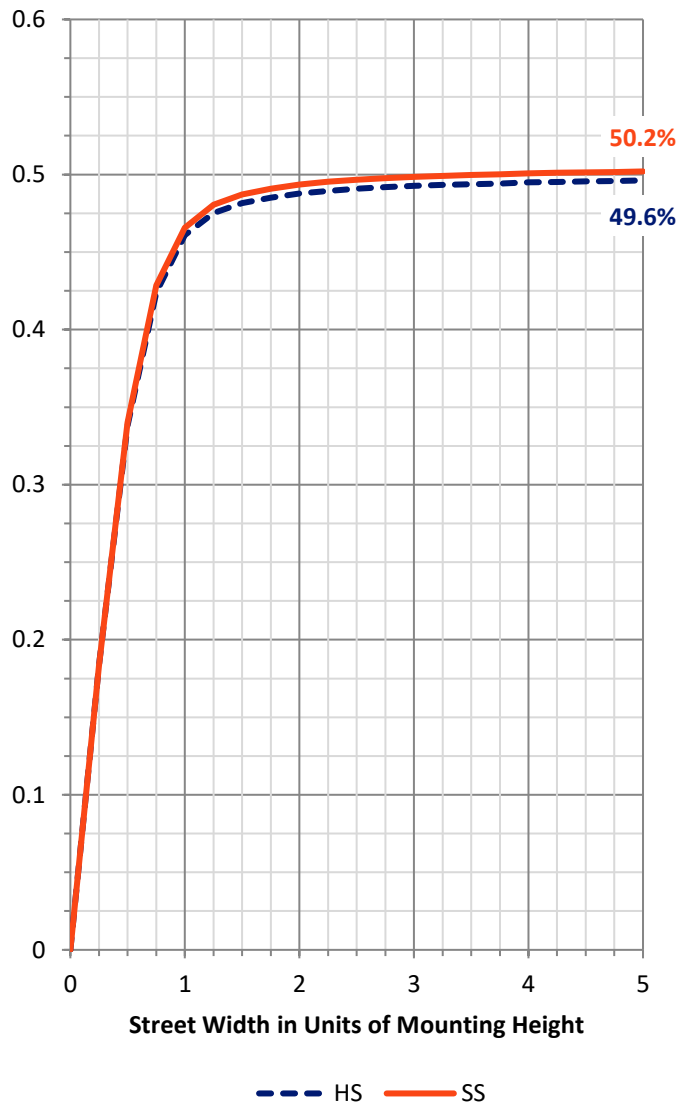
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22186.7	0.0	22186.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22186.7	0.0	22186.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44373.4	0.0	44373.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.2	1.8
10°-20°	2505.8	5.6
20°-30°	4194.0	9.5
30°-40°	5681.8	12.8
40°-50°	7197.0	16.2
50°-60°	8990.8	20.3
60°-70°	10568.3	23.8
70°-80°	4042.9	9.1
80°-90°	409.6	0.9
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°	44373.4	100.0
0°-180°	44373.4	100.0

**Coefficient of Utilization**

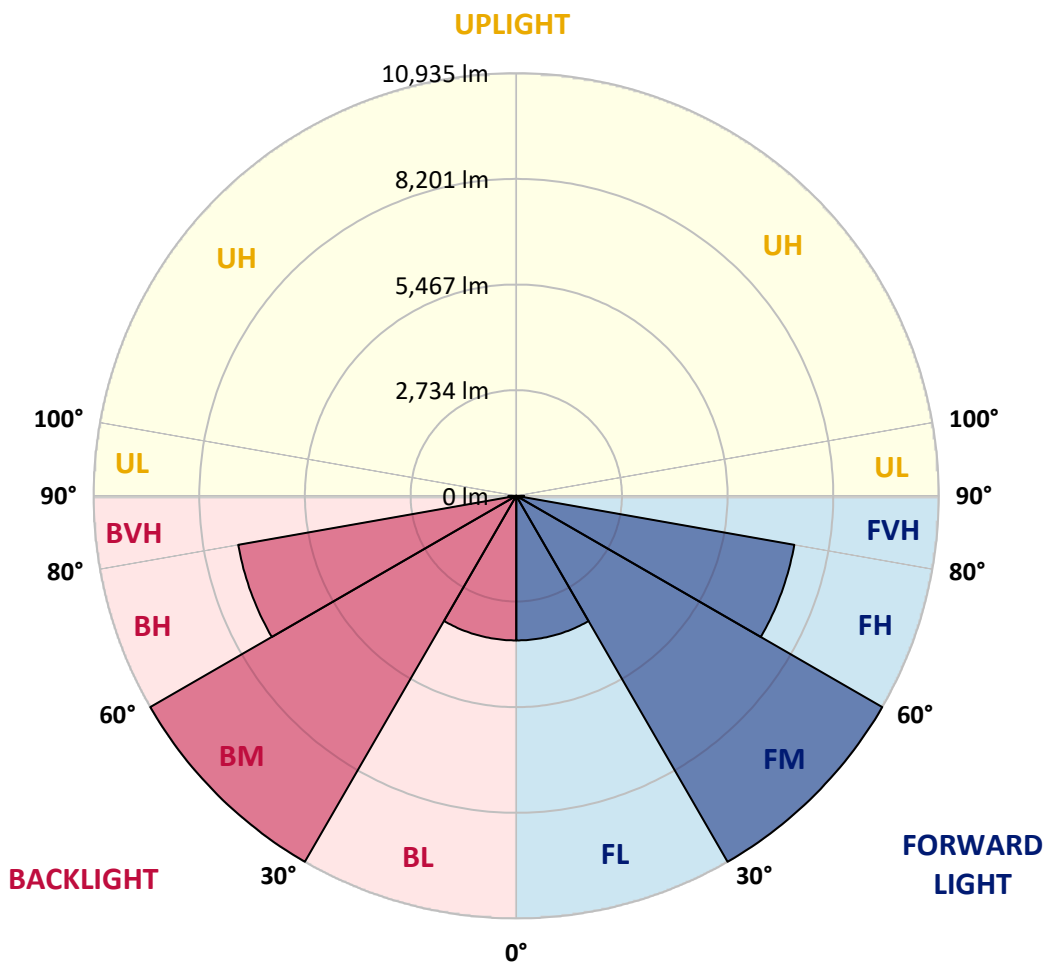


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3741.5	8.4			
FM	(30°-60°)	10934.8	24.6			
FH	(60°-80°)	7305.6	16.5			G3/7500
FVH	(80°-90°)	204.8	0.5			G2/225
BL	(0°-30°)	3741.5	8.4	B4/5000		
BM	(30°-60°)	10934.8	24.6	B5		
BH	(60°-80°)	7305.6	16.5	B5		G5
BVH	(80°-90°)	204.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7855.4	7855.4	7855.4	7855.4	7855.4	7855.4	7855.4	7855.4	7855.4	7855.4	7855.4
2.5°	7956.2	7951.3	7953.8	7951.3	7958.6	7953.8	7924.3	7899.7	7880.0	7882.5	7875.1
5°	8125.7	8128.2	8130.7	8118.4	8135.6	8125.7	8079.1	8039.8	8000.5	7985.7	7980.8
7.5°	8265.8	8278.1	8285.5	8297.8	8327.2	8327.2	8302.7	8246.2	8160.2	8111.0	8108.6
10°	8405.9	8415.7	8437.8	8477.1	8526.2	8573.0	8563.1	8486.9	8376.4	8292.8	8273.2
12.5°	8455.0	8467.3	8541.0	8654.0	8764.6	8855.5	8855.5	8794.1	8651.6	8523.8	8486.9
15°	8283.0	8305.1	8437.8	8678.6	8968.6	9167.6	9211.8	9125.8	8973.5	8776.9	8732.6
17.5°	7941.5	7995.5	8189.6	8545.9	9027.5	9440.3	9568.1	9526.3	9329.8	9079.1	9027.5
20°	7575.4	7634.3	7840.7	8312.5	8978.3	9600.0	9971.0	9980.9	9737.6	9374.0	9297.8
22.5°	7172.4	7216.6	7482.0	8034.8	8831.0	9636.9	10317.5	10487.0	10157.8	9668.9	9560.7
25°	6720.3	6769.4	7047.1	7644.2	8553.3	9595.1	10634.5	11008.0	10597.7	9983.3	9845.8
27.5°	6287.8	6307.5	6604.8	7211.7	8187.2	9487.0	10868.0	11487.2	11084.1	10243.8	10069.4
30°	5872.6	5919.2	6182.2	6781.7	7767.0	9275.7	11069.4	12032.6	11607.5	10516.6	10292.9
32.5°	5432.8	5489.2	5774.3	6381.2	7346.8	8958.7	11192.3	12629.7	12337.3	10958.9	10720.5
35°	5010.1	5047.0	5334.4	5924.2	6936.5	8590.1	11214.4	13302.9	13278.3	11629.7	11312.6
37.5°	4577.7	4631.7	4921.6	5486.8	6501.6	8199.5	11103.8	14018.0	14413.5	12560.9	12219.3
40°	4162.4	4209.1	4494.1	5064.1	6007.7	7722.8	10840.9	14671.5	15738.0	13519.2	13035.1
42.5°	3710.2	3722.5	4034.6	4614.5	5523.7	7169.9	10462.5	15253.9	17214.7	14804.3	14202.3
45°	3196.8	3228.7	3518.6	4088.7	4968.4	6550.7	9949.0	15735.5	19087.0	16585.7	15765.0
47.5°	2683.2	2710.2	2975.6	3538.3	4361.4	5840.6	9157.7	16158.1	21008.5	18848.7	17772.5
50°	2181.9	2196.7	2412.9	2911.7	3678.3	5093.6	8177.3	16293.3	23180.6	22052.8	20679.3
52.5°	1724.9	1747.0	1911.6	2302.3	2948.5	4211.5	7118.3	15959.1	25716.4	25851.5	23915.3
55°	1398.1	1405.5	1528.3	1815.9	2304.8	3287.7	5840.6	15027.9	28443.8	30719.1	28249.7
57.5°	1204.0	1208.9	1277.7	1437.4	1774.0	2479.3	4531.0	13266.1	30893.6	36422.2	33247.5
60°	1093.5	1095.9	1135.2	1228.6	1405.5	1901.8	3245.8	10779.5	33311.4	42768.9	39459.2
62.5°	1024.6	1024.6	1051.6	1103.2	1189.2	1459.5	2351.5	7776.8	34967.5	49209.1	47115.6
65°	958.3	958.3	978.0	1014.8	1061.5	1194.2	1737.2	5071.6	34925.8	53899.8	54816.3
67.5°	882.1	882.1	896.8	933.7	960.7	1027.1	1341.6	3322.0	31372.8	53796.6	59018.0
70°	791.2	791.2	810.9	842.8	864.9	906.7	1059.0	2272.8	23048.0	45933.8	52486.9
72.5°	700.3	702.7	715.0	747.0	764.2	788.7	879.6	1592.2	14138.4	31276.9	36699.8
75°	599.5	604.5	616.8	648.7	663.4	673.2	742.0	1135.2	7152.7	16863.3	19200.1
77.5°	484.1	493.9	501.3	535.7	545.5	560.2	611.8	820.7	3140.2	6059.3	6113.4
80°	353.8	366.1	388.2	420.2	427.5	437.4	466.8	582.3	1422.7	2766.7	3005.1
82.5°	260.4	277.7	250.6	292.4	292.4	280.1	329.3	390.7	653.6	2739.7	3277.8
85°	142.5	144.9	130.2	149.9	159.7	157.2	174.5	191.7	317.0	1828.1	1884.6
87.5°	34.4	36.9	39.3	46.7	56.5	56.5	61.5	54.0	103.2	592.2	339.1
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)