

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: P648080

Luminaire Tested: **GALN-SA8A-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30326.4 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

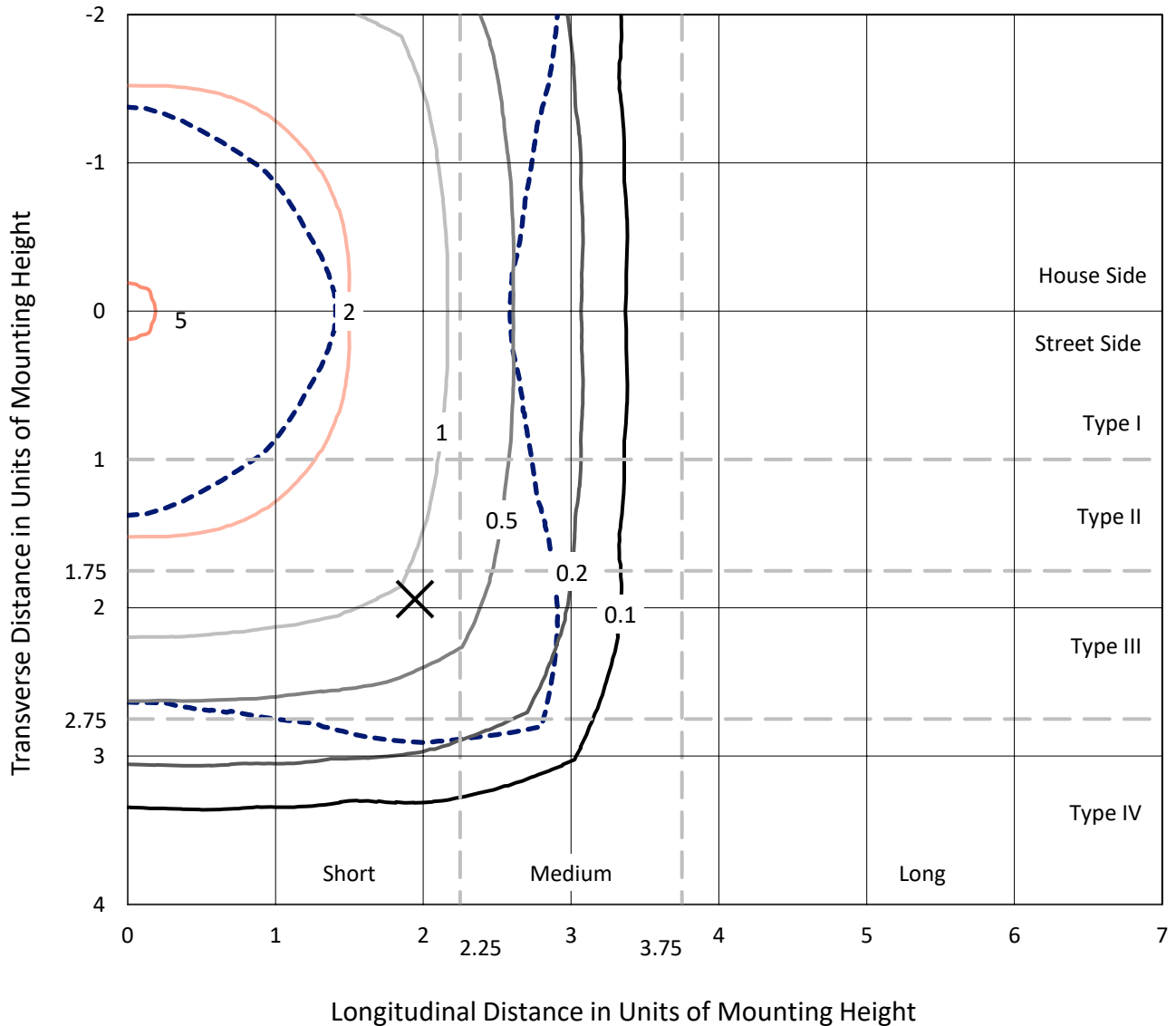
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648080  
 CATALOG NUMBER: GALN-SA8A-835-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

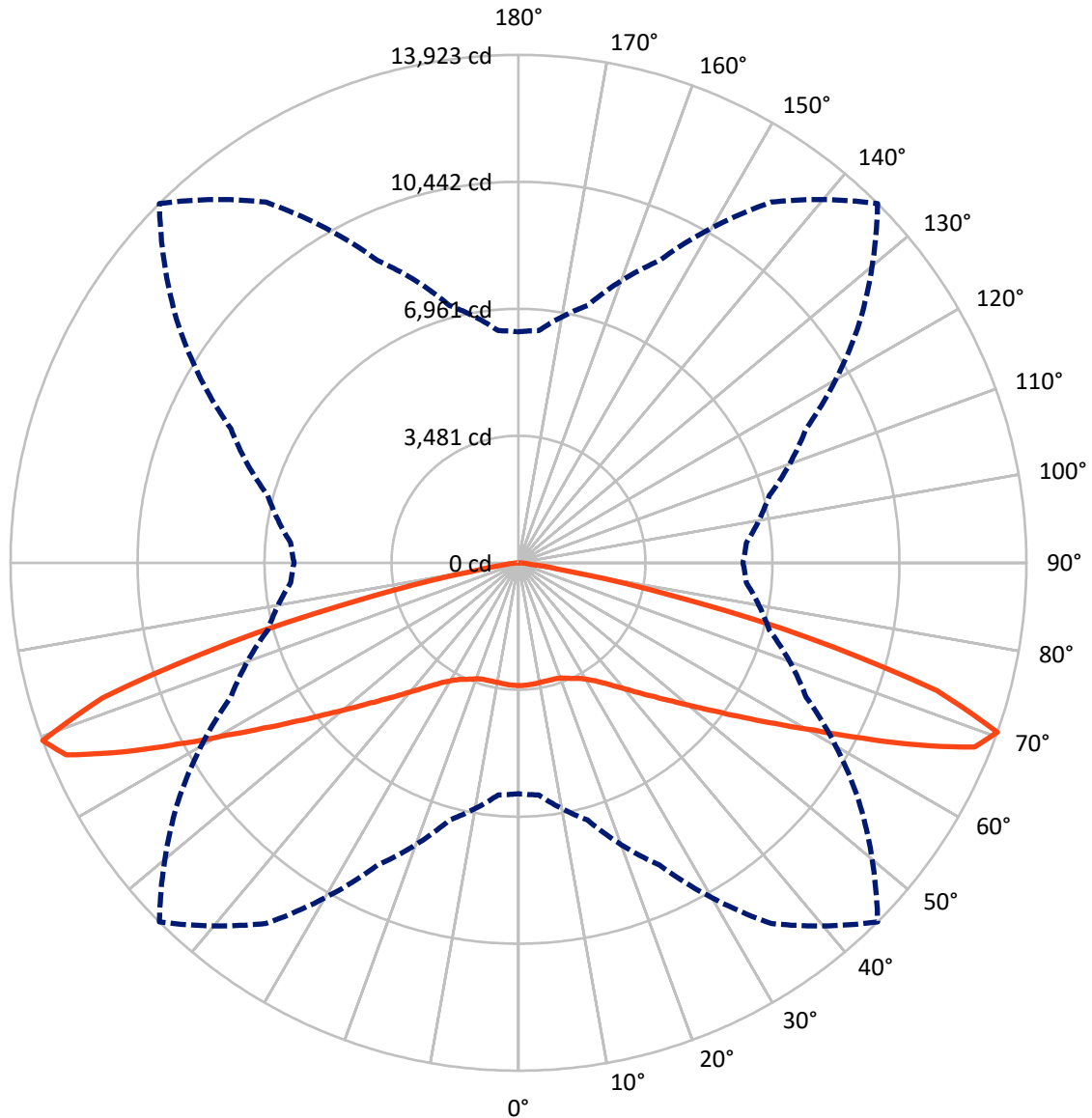
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P648080  
CATALOG NUMBER: GALN-SA8A-835-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P648080  
 CATALOG NUMBER: GALN-SA8A-835-U-5MQ

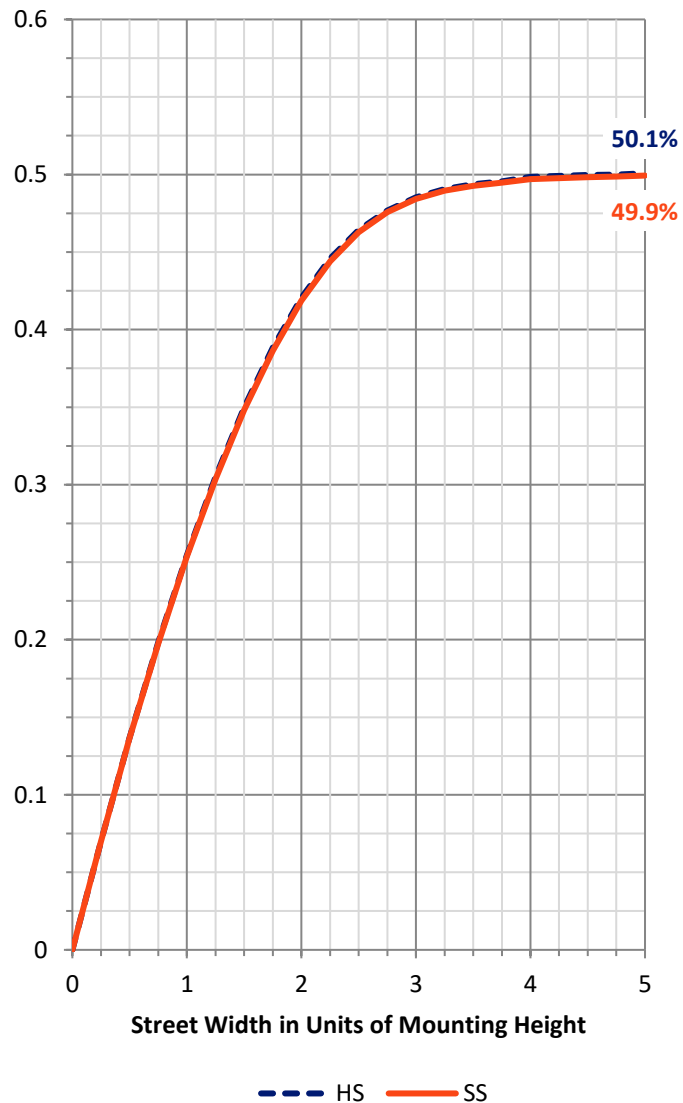
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15163.2	0.0	15163.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15163.2	0.0	15163.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30326.4	0.0	30326.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.3	1.1
10°-20°	937.1	3.1
20°-30°	1602.7	5.3
30°-40°	2543.9	8.4
40°-50°	4103.9	13.5
50°-60°	6677.2	22.0
60°-70°	9679.5	31.9
70°-80°	4293.5	14.2
80°-90°	169.3	0.6
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°	30326.4	100.0
0°-180°	30326.4	100.0

**Coefficient of Utilization**



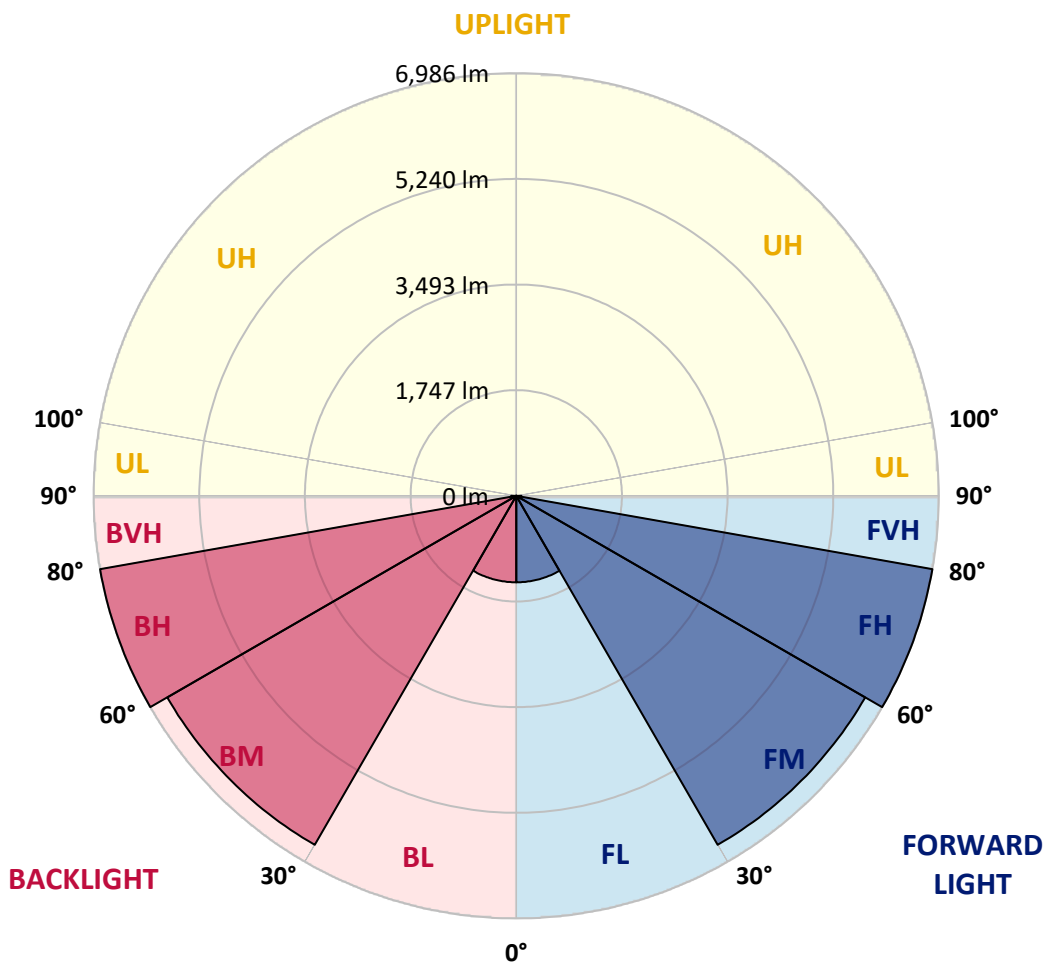
REPORT NUMBER: P648080  
 CATALOG NUMBER: GALN-SA8A-835-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.6	4.7			
FM (30°-60°)	6662.5	22.0			
FH (60°-80°)	6986.5	23.0			G3/7500
FVH (80°-90°)	84.7	0.3			G1/100
BL (0°-30°)	1429.6	4.7	B3/2500		
BM (30°-60°)	6662.5	22.0	B4/8500		
BH (60°-80°)	6986.5	23.0	B5		G3/7500
BVH (80°-90°)	84.7	0.3			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: P648080

CATALOG NUMBER: GALN-SA8A-835-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3367.6	3370.8	3366.0	3362.8	3361.2	3361.2	3359.6	3361.2	3370.8	3372.4	3367.6
5°	3358.0	3361.2	3359.6	3356.4	3354.8	3354.8	3353.2	3351.6	3359.6	3362.8	3361.2
7.5°	3345.2	3346.9	3345.2	3343.6	3345.2	3343.6	3338.9	3335.7	3342.0	3342.0	3340.4
10°	3322.8	3326.0	3324.5	3326.0	3329.2	3329.2	3322.8	3316.5	3318.0	3314.8	3314.8
12.5°	3295.6	3300.5	3302.1	3308.5	3316.5	3326.0	3311.7	3297.3	3294.1	3292.5	3290.9
15°	3278.1	3282.9	3289.3	3295.6	3310.1	3330.8	3310.1	3287.7	3281.3	3274.9	3271.7
17.5°	3273.3	3279.7	3289.3	3298.9	3318.0	3338.9	3321.3	3298.9	3282.9	3273.3	3270.1
20°	3286.1	3290.9	3305.3	3322.8	3350.0	3370.8	3353.2	3329.2	3305.3	3290.9	3286.1
22.5°	3311.7	3319.7	3337.2	3369.2	3407.5	3437.9	3414.0	3374.0	3335.7	3316.5	3310.1
25°	3367.6	3374.0	3394.8	3437.9	3482.7	3511.4	3485.8	3439.6	3386.8	3361.2	3353.2
27.5°	3452.3	3461.9	3484.3	3535.4	3572.2	3588.2	3570.6	3538.6	3500.2	3473.1	3466.7
30°	3572.2	3583.4	3616.9	3671.3	3695.2	3704.8	3696.9	3676.1	3648.9	3620.1	3613.7
32.5°	3733.6	3740.0	3778.4	3829.5	3851.9	3855.1	3845.5	3835.9	3791.1	3743.2	3740.0
35°	3914.2	3925.4	3971.8	4032.5	4053.3	4054.8	4035.7	4021.3	3968.6	3930.2	3930.2
37.5°	4154.0	4158.7	4203.5	4272.2	4294.6	4288.2	4278.6	4265.9	4209.9	4160.4	4162.0
40°	4435.2	4444.9	4483.2	4563.1	4563.1	4555.1	4561.5	4552.0	4496.0	4448.1	4449.6
42.5°	4769.3	4774.1	4820.5	4905.2	4898.8	4882.8	4889.2	4876.4	4841.2	4786.9	4767.7
45°	5125.8	5144.9	5224.8	5306.3	5293.5	5242.4	5267.9	5264.7	5232.8	5151.3	5156.1
47.5°	5555.7	5587.6	5664.4	5761.9	5747.5	5667.5	5696.3	5715.5	5670.7	5581.2	5565.3
50°	6040.0	6060.7	6174.2	6265.3	6252.5	6167.8	6233.3	6236.5	6124.6	5998.4	5998.4
52.5°	6556.2	6577.0	6730.4	6872.6	6880.6	6757.6	6810.3	6807.1	6624.9	6458.7	6426.7
55°	7134.8	7144.3	7342.6	7552.0	7596.7	7476.8	7483.2	7419.2	7182.7	6989.3	6971.8
57.5°	7732.5	7767.7	7986.7	8258.4	8391.0	8317.5	8284.0	8112.9	7884.3	7662.2	7651.0
60°	8394.2	8395.8	8680.3	9001.6	9270.1	9319.7	9182.2	8953.6	8657.9	8363.8	8351.1
62.5°	8852.9	8921.7	9281.3	9824.7	10305.8	10583.9	10221.0	9741.6	9159.8	8685.1	8637.2
65°	8947.3	8993.6	9541.8	10462.4	11445.3	12044.7	11205.6	10185.9	9193.4	8560.5	8528.5
67.5°	8184.9	8234.4	8972.8	10385.7	12244.5	13473.6	11844.9	9971.7	8624.4	7841.2	7778.9
70°	6330.9	6386.8	7299.4	9142.2	12067.1	13922.8	11389.4	8697.9	7112.4	6266.9	6153.4
72.5°	3366.0	3572.2	4352.1	6274.9	9794.3	11987.2	9338.8	6346.8	4587.1	3749.6	3599.4
75°	1229.1	1254.7	1689.4	2782.6	5697.9	8220.0	5916.9	3027.2	1740.5	1344.2	1275.4
77.5°	508.2	506.7	556.2	840.7	2069.8	4209.9	2309.5	888.6	554.6	513.0	506.7
80°	300.5	300.5	330.8	350.0	545.0	1270.7	608.9	396.4	332.5	303.6	308.5
82.5°	134.3	142.3	209.4	220.6	263.7	348.4	294.1	252.5	217.4	150.3	135.9
85°	73.5	63.9	110.2	115.1	126.3	129.4	139.1	137.4	126.3	73.5	75.1
87.5°	14.4	17.6	31.9	24.0	27.2	24.0	31.9	44.8	46.4	25.6	20.7
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)