

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: P647421

Luminaire Tested: **GALN-SA5D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20838.8 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

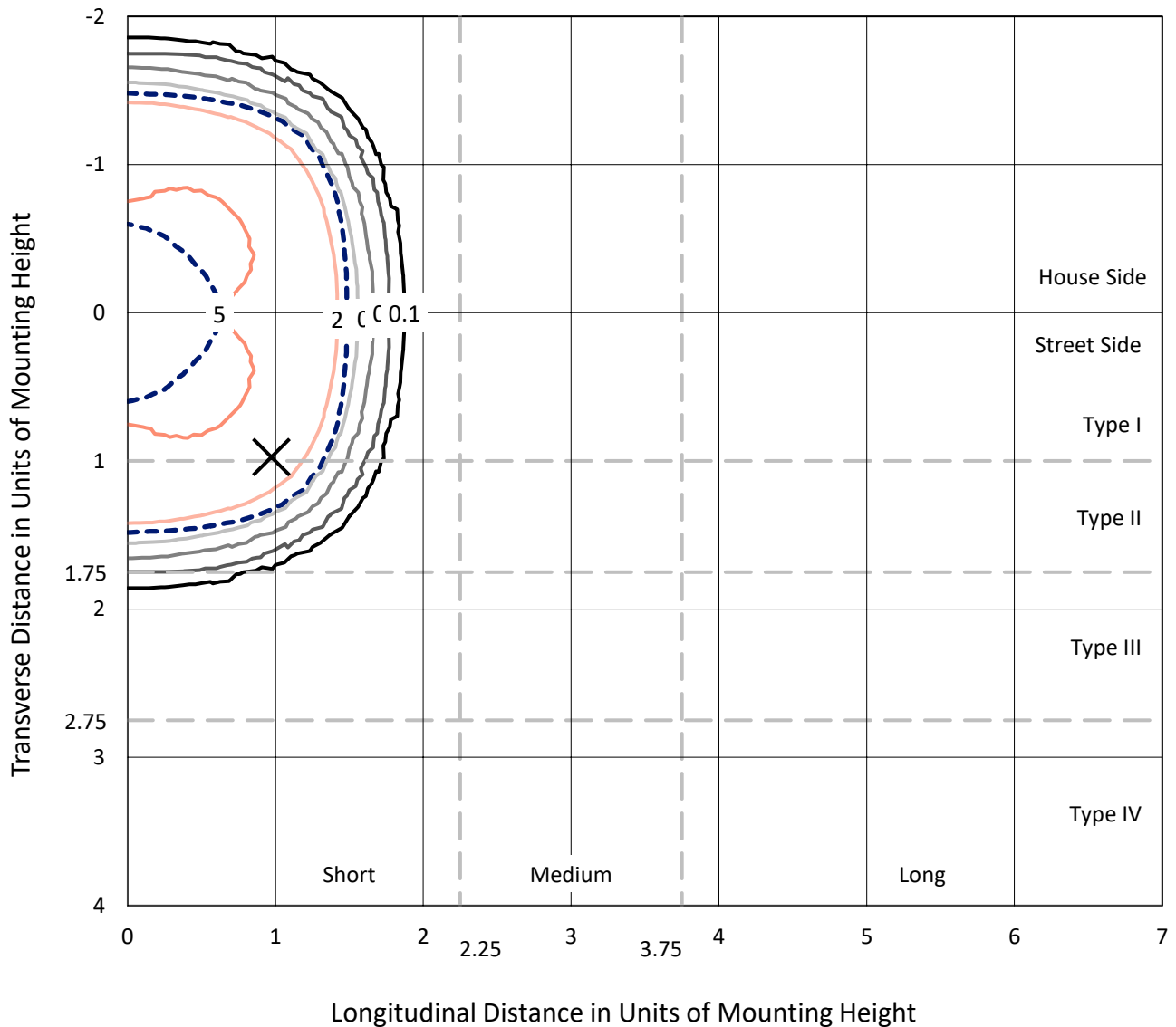
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

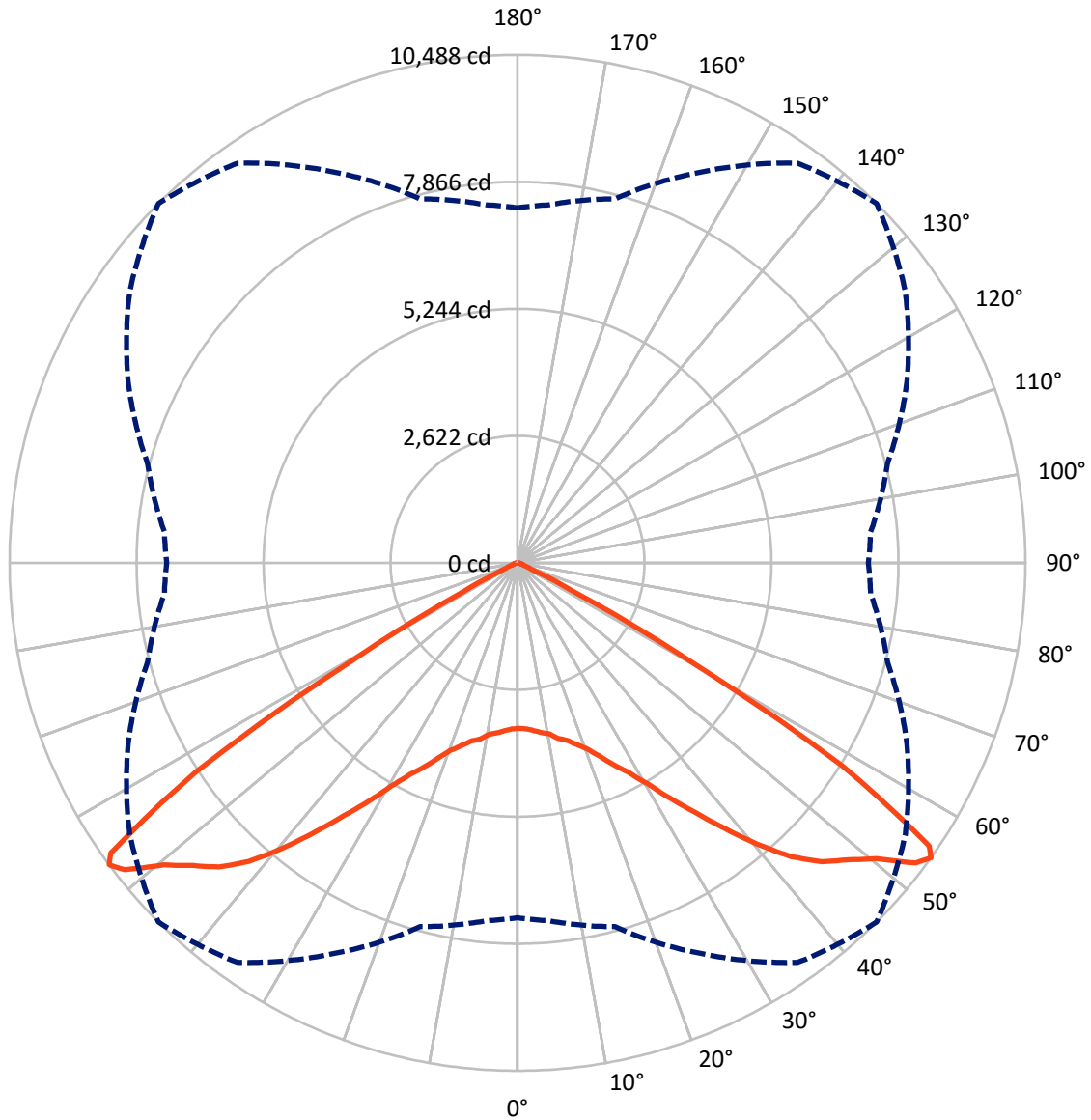
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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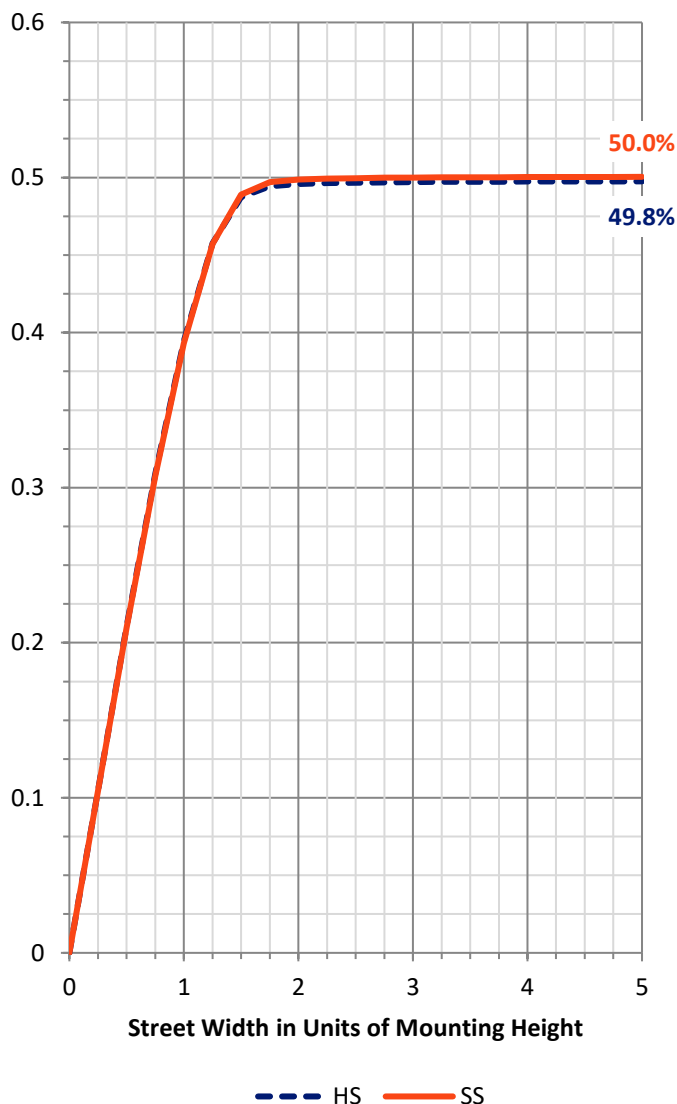
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10419.4	0.0	10419.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10419.4	0.0	10419.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20838.8	0.0	20838.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.4	1.6
10°-20°	1083.0	5.2
20°-30°	2122.7	10.2
30°-40°	3817.0	18.3
40°-50°	6534.0	31.4
50°-60°	6322.2	30.3
60°-70°	541.2	2.6
70°-80°	64.1	0.3
80°-90°	20.1	0.1
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°	20838.8	100.0
0°-180°	20838.8	100.0

**Coefficient of Utilization**

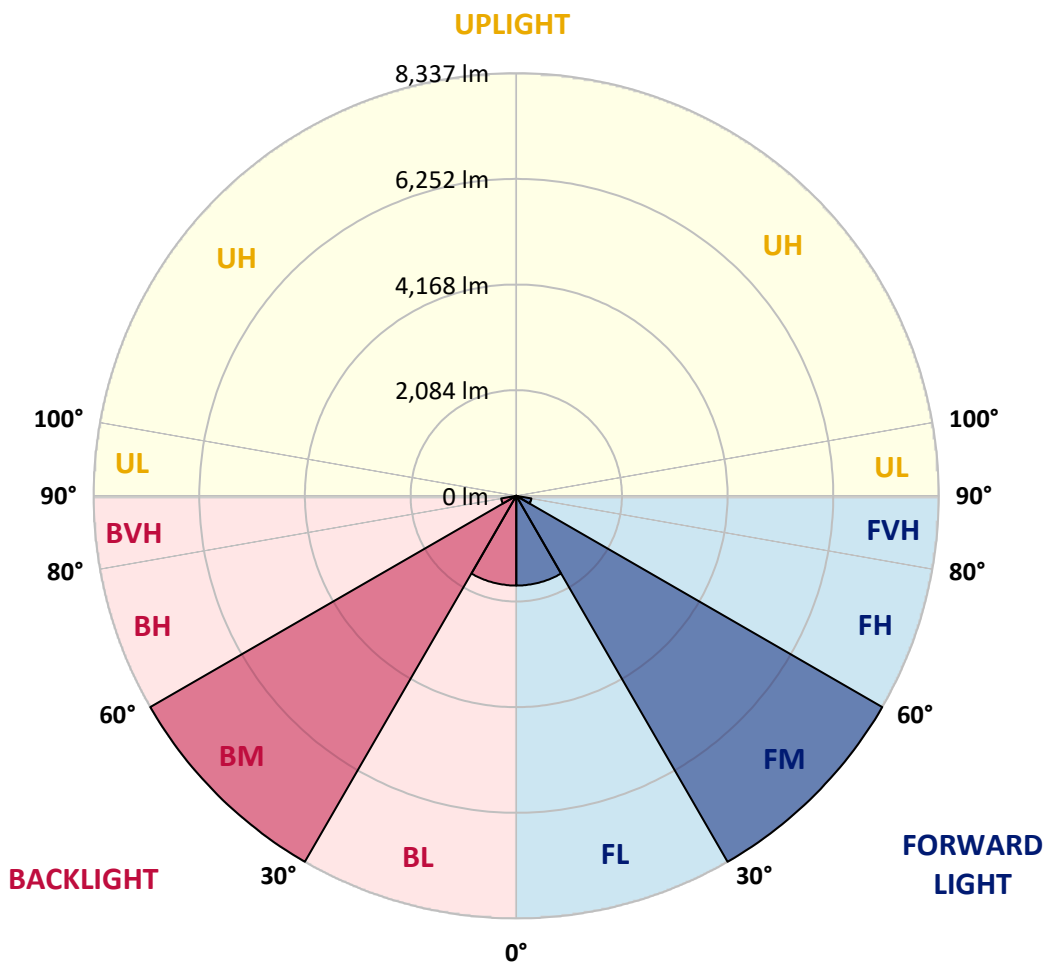


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.1	8.5			
FM (30°-60°)	8336.6	40.0			
FH (60°-80°)	302.7	1.5			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	1770.1	8.5	B3/2500		
BM (30°-60°)	8336.6	40.0	B4/8500		
BH (60°-80°)	302.7	1.5	B1/500		G0/660
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3416.9	3416.9	3416.9	3416.9	3416.9	3416.9	3416.9	3416.9	3416.9	3416.9	3416.9
2.5°	3433.4	3453.2	3440.0	3449.9	3449.9	3433.4	3443.3	3403.7	3430.1	3410.3	3413.6
5°	3486.2	3482.9	3482.9	3486.2	3473.0	3479.7	3466.4	3453.2	3443.3	3430.1	3469.7
7.5°	3552.2	3552.2	3529.1	3535.8	3529.1	3539.1	3512.6	3486.2	3476.4	3466.4	3459.8
10°	3615.0	3608.4	3598.5	3628.2	3605.1	3591.9	3578.7	3562.2	3525.8	3512.6	3499.5
12.5°	3707.4	3704.1	3690.9	3720.7	3707.4	3720.7	3671.1	3628.2	3621.6	3578.7	3601.8
15°	3816.3	3846.1	3823.0	3823.0	3816.3	3799.9	3780.1	3760.3	3700.8	3684.3	3687.6
17.5°	3958.3	3948.4	3951.7	3951.7	3984.8	3941.9	3902.2	3852.7	3823.0	3813.1	3780.1
20°	4093.7	4106.9	4103.6	4126.7	4146.5	4100.3	4057.3	4050.8	3968.2	3981.5	3935.2
22.5°	4331.4	4321.5	4338.0	4354.5	4341.3	4334.7	4295.1	4245.6	4172.9	4139.9	4133.3
25°	4582.3	4565.8	4536.1	4575.7	4595.5	4625.2	4549.3	4522.8	4410.6	4361.1	4364.4
27.5°	4796.9	4820.0	4853.0	4869.5	4919.0	4909.1	4856.3	4770.4	4684.6	4628.5	4592.2
30°	5090.7	5103.9	5160.0	5183.1	5269.0	5292.1	5209.5	5110.5	4958.7	4886.0	4843.1
32.5°	5361.4	5453.8	5450.5	5566.1	5704.8	5800.5	5651.9	5500.0	5348.2	5262.4	5186.4
35°	5800.5	5784.0	5879.7	6001.9	6226.3	6335.3	6173.6	5998.6	5767.5	5628.8	5569.4
37.5°	6209.9	6216.5	6345.2	6540.0	6797.5	6965.9	6823.9	6536.7	6299.0	6120.7	6038.2
40°	6804.1	6817.3	6949.4	7170.6	7461.1	7642.6	7477.6	7187.1	6870.1	6731.5	6731.5
42.5°	7500.7	7556.8	7642.6	7834.1	8095.0	8296.4	8147.7	7920.0	7599.7	7421.4	7447.9
45°	8217.1	8243.5	8299.6	8583.6	8705.7	8804.8	8666.1	8560.5	8345.8	8127.9	8091.6
47.5°	8887.3	8897.2	9062.2	9151.4	9247.1	9164.5	9253.7	9115.1	8874.1	8662.8	8619.9
50°	9184.4	9167.9	9402.3	9672.9	9745.6	9600.4	9524.4	9432.0	9065.6	8811.3	8699.1
52.5°	8319.5	8415.1	8851.0	9603.7	10171.5	10293.6	9851.2	9425.4	8742.0	8246.8	8170.8
54°	7329.0	7418.1	7778.0	8893.9	10075.7	10488.4	9775.4	8870.8	7906.7	7319.1	7243.2
55°	6348.5	6249.4	6903.2	8042.1	9626.8	10316.7	9474.9	8154.4	7051.7	6513.6	6407.9
57.5°	3436.7	3453.2	4004.6	5080.8	6764.5	7910.0	6985.7	5516.5	4166.3	3562.2	3509.3
60°	1089.5	1115.9	1356.9	2053.4	3232.1	3859.3	3307.9	2215.2	1531.9	1228.1	1178.6
62.5°	340.1	353.2	386.3	574.4	884.8	1264.4	990.4	594.2	442.4	406.1	412.6
65°	208.0	208.0	211.3	224.5	264.1	307.0	297.1	260.8	250.9	244.3	241.0
67.5°	135.4	132.1	138.7	148.5	155.2	158.5	168.3	178.3	175.0	168.3	168.3
70°	82.5	79.2	85.8	99.0	102.3	108.9	118.9	132.1	128.7	122.1	125.4
72.5°	46.2	46.2	49.5	59.4	69.3	76.0	85.8	95.8	99.0	95.8	95.8
75°	16.5	19.8	26.4	36.3	42.9	52.9	62.7	72.7	82.5	76.0	72.7
77.5°	6.6	6.6	13.2	23.1	33.0	42.9	59.4	69.3	76.0	69.3	62.7
80°	3.3	3.3	9.9	19.8	29.7	39.6	49.5	59.4	62.7	56.1	49.5
82.5°	3.3	3.3	9.9	19.8	29.7	36.3	52.9	59.4	66.0	59.4	49.5
85°	0.0	3.3	9.9	19.8	26.4	29.7	29.7	19.8	16.5	9.9	9.9
87.5°	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)