

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: P647095

Luminaire Tested: **GALN-SA8C-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37711.6 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

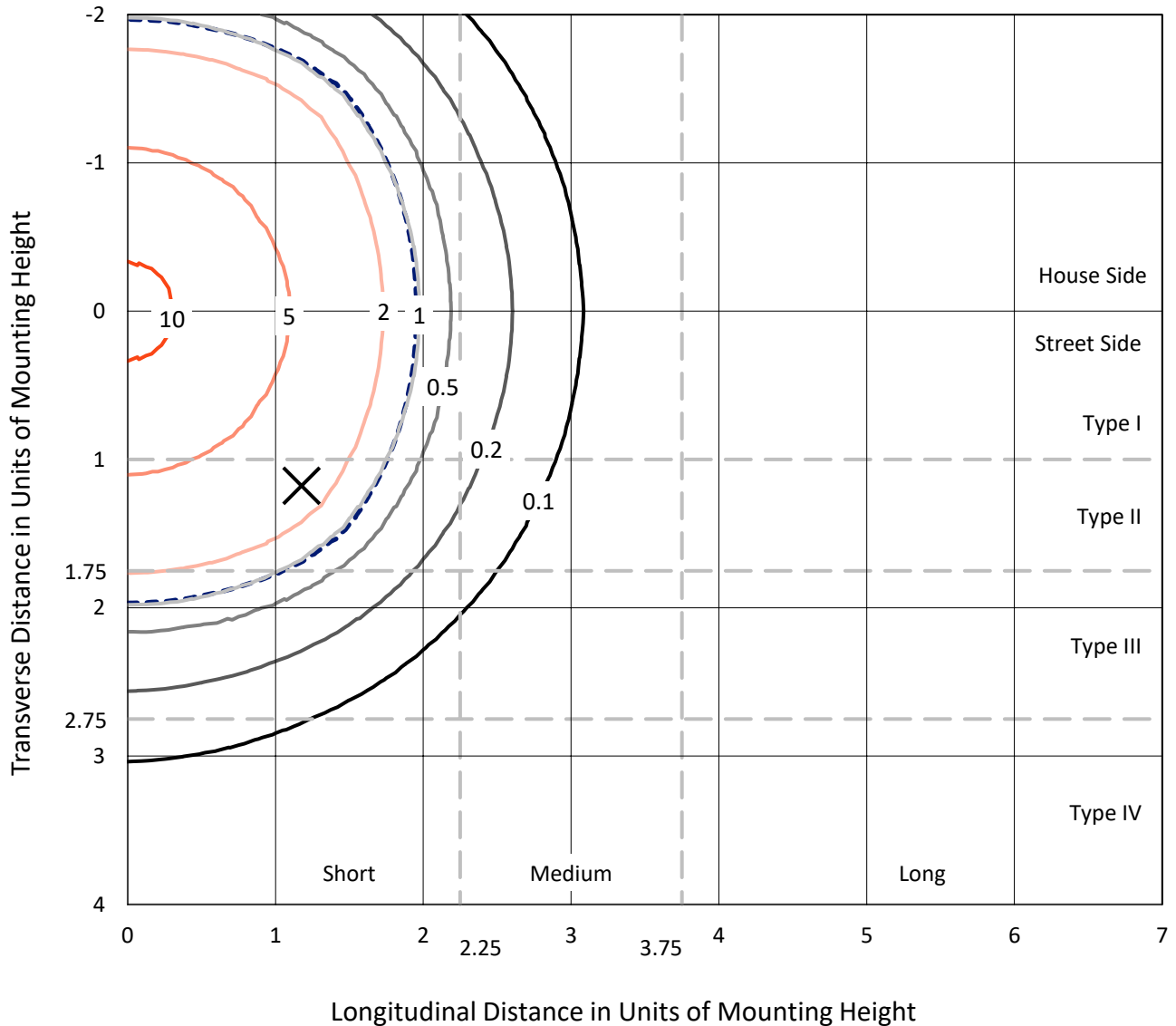
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

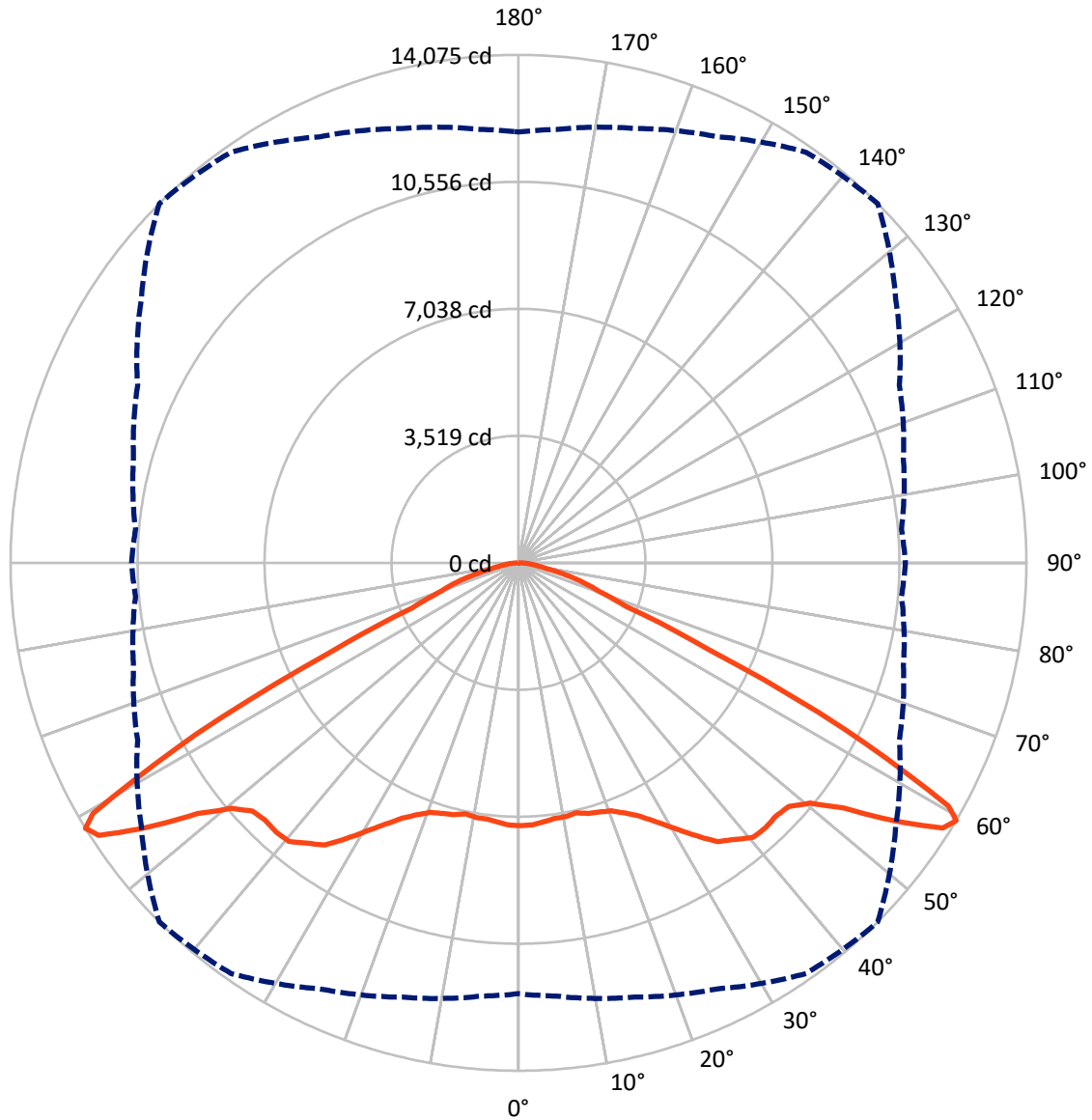
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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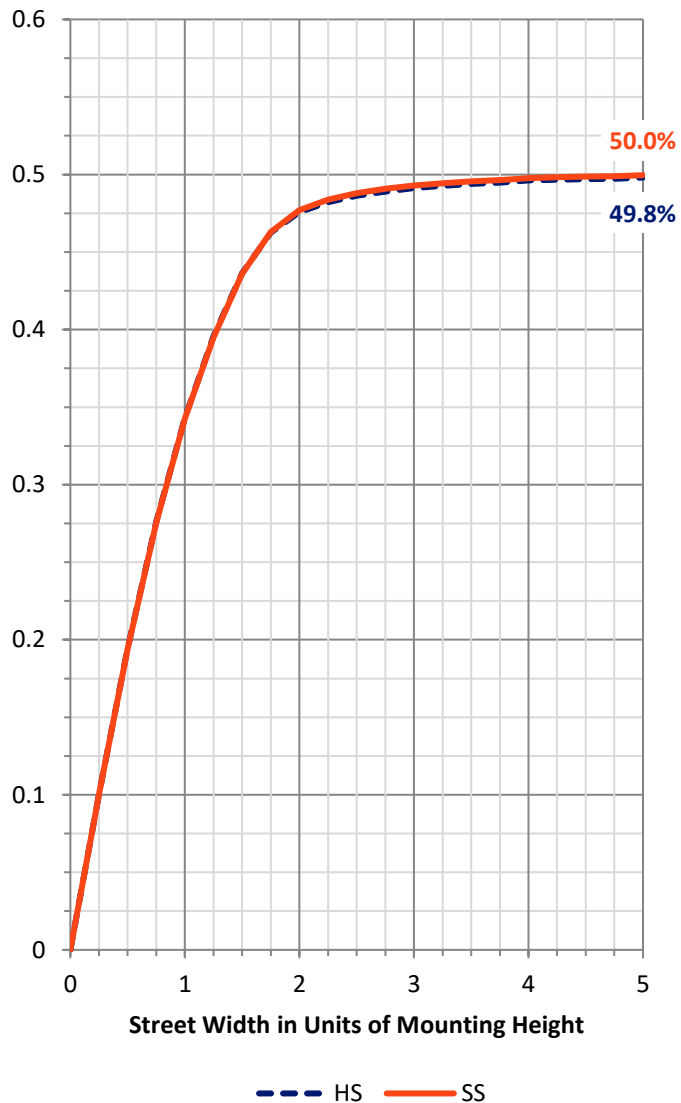
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18855.8	0.0	18855.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18855.8	0.0	18855.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37711.6	0.0	37711.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	686.7	1.8
10°-20°	2042.0	5.4
20°-30°	3565.6	9.5
30°-40°	5694.7	15.1
40°-50°	7757.3	20.6
50°-60°	10490.0	27.8
60°-70°	5752.7	15.3
70°-80°	1471.7	3.9
80°-90°	251.0	0.7
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°	37711.6	100.0
0°-180°	37711.6	100.0

**Coefficient of Utilization**



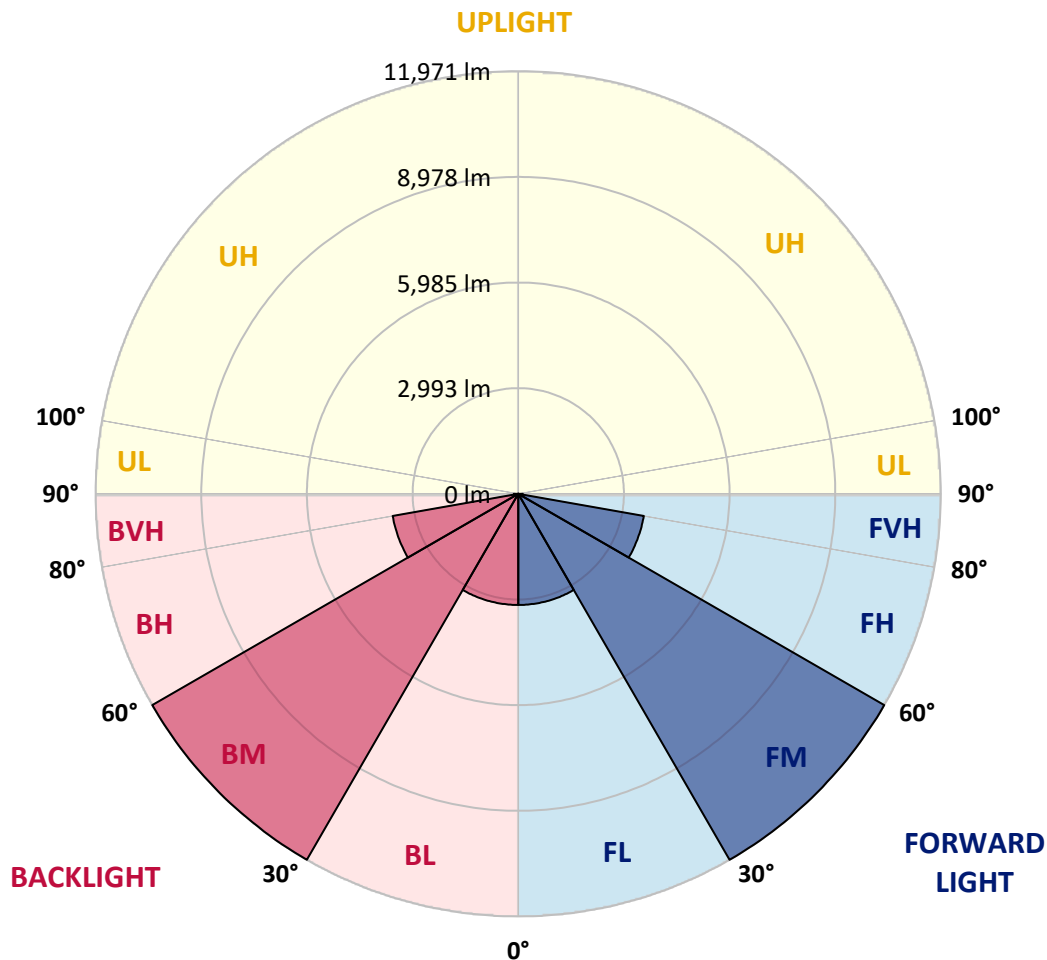
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.1	8.3			
FM (30°-60°)	11971.0	31.7			
FH (60°-80°)	3612.2	9.6			G2/5000
FVH (80°-90°)	125.5	0.3			G2/225
BL (0°-30°)	3147.1	8.3	B4/5000		
BM (30°-60°)	11971.0	31.7	B5		
BH (60°-80°)	3612.2	9.6	B4/5000		G2/5000
BVH (80°-90°)	125.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7284.1	7284.1	7284.1	7284.1	7284.1	7284.1	7284.1	7284.1	7284.1	7284.1	7284.1
2.5°	7240.6	7293.7	7255.1	7288.9	7284.1	7269.6	7245.4	7230.9	7211.6	7240.6	7192.2
5°	7211.6	7255.1	7298.6	7240.6	7240.6	7211.6	7197.1	7168.1	7168.1	7163.3	7158.4
7.5°	7259.9	7216.4	7197.1	7206.7	7216.4	7153.6	7197.1	7139.1	7090.8	7124.6	7163.3
10°	7216.4	7235.8	7163.3	7197.1	7143.9	7153.6	7124.6	7163.3	7110.1	7110.1	7110.1
12.5°	7259.9	7206.7	7230.9	7206.7	7192.2	7110.1	7148.7	7105.3	7100.4	7148.7	7105.3
15°	7346.9	7259.9	7240.6	7192.2	7206.7	7206.7	7168.1	7172.9	7119.7	7148.7	7158.4
17.5°	7317.9	7269.6	7255.1	7197.1	7245.4	7259.9	7187.4	7139.1	7172.9	7168.1	7163.3
20°	7342.1	7361.5	7346.9	7356.6	7375.9	7337.3	7269.6	7201.9	7158.4	7221.2	7216.4
22.5°	7496.8	7477.4	7467.8	7458.1	7491.9	7530.6	7438.7	7332.4	7332.4	7375.9	7395.3
25°	7622.4	7617.6	7612.8	7656.3	7772.3	7772.3	7656.3	7520.9	7487.1	7516.1	7491.9
27.5°	7806.1	7859.3	7839.9	7917.3	8086.4	8125.1	7970.5	7811.0	7719.1	7685.3	7728.8
30°	8226.6	8163.8	8178.3	8260.4	8410.3	8536.0	8299.1	8130.0	8004.3	7999.4	8018.8
32.5°	8507.0	8555.3	8598.8	8676.1	8913.0	9009.7	8724.5	8449.0	8371.6	8328.1	8342.6
35°	9067.6	9024.2	9014.4	9091.8	9328.7	9488.2	9130.5	8888.8	8787.3	8884.0	8884.0
37.5°	9599.3	9478.5	9386.7	9488.2	9705.7	9725.0	9420.5	9290.0	9236.8	9348.0	9343.1
40°	9850.7	9841.0	9628.3	9686.3	9976.4	10005.3	9720.2	9565.5	9555.8	9700.8	9845.8
42.5°	10111.7	10019.8	9807.2	9845.8	10024.7	10034.4	9763.7	9720.2	9826.5	9966.7	9976.4
45°	10155.2	10077.8	9942.5	9845.8	9976.4	10005.3	9845.8	9874.8	9884.5	10053.6	10053.6
47.5°	10242.2	10232.5	10155.2	10082.7	10106.9	10082.7	9981.2	10024.7	10169.7	10251.8	10213.2
50°	10483.8	10382.3	10459.7	10396.8	10401.7	10469.3	10377.5	10421.0	10392.1	10319.5	10271.2
52.5°	11015.6	10967.2	11034.9	11078.4	11126.7	11281.4	11175.1	10943.1	10725.5	10532.2	10527.4
55°	11793.7	11827.6	11958.1	12180.4	12368.9	12615.5	12103.1	11547.2	11199.2	10894.7	10914.0
57.5°	12528.4	12504.3	12683.1	13190.7	13741.6	13867.3	12861.9	12069.2	11503.8	11310.4	11228.2
59°	11938.7	12054.8	12460.7	13026.3	13891.4	14075.1	12760.5	11643.9	11044.5	10653.0	10720.7
60°	11010.7	11054.2	11416.7	12204.6	13374.3	13688.5	12078.9	10986.5	10189.0	9961.9	10063.4
62.5°	7781.9	7748.1	8009.1	8652.0	9700.8	10126.1	8980.6	8212.1	7709.4	7458.1	7516.1
65°	4137.5	4292.2	4398.5	4799.6	5355.5	5805.0	5331.4	4997.8	4717.5	4509.7	4504.8
67.5°	2793.7	2774.4	2798.6	2890.4	3078.9	3204.6	3195.0	3025.7	3001.6	2963.0	3006.4
70°	2353.9	2344.2	2300.8	2300.8	2339.4	2368.4	2402.2	2421.6	2460.3	2508.6	2503.7
72.5°	1909.3	1885.1	1856.1	1841.5	1889.9	1904.4	1947.9	1967.2	2001.0	1996.3	2039.7
75°	1261.6	1261.6	1295.4	1334.1	1348.6	1377.5	1382.4	1440.4	1440.4	1450.0	1411.4
77.5°	705.7	686.4	710.5	749.2	783.0	836.2	889.3	932.9	957.1	947.4	947.4
80°	410.8	410.8	435.0	478.5	522.0	570.3	609.0	642.8	667.0	657.3	638.0
82.5°	256.2	256.2	280.3	323.8	357.7	386.6	439.8	483.3	512.3	502.7	478.5
85°	130.5	130.5	159.5	188.5	232.0	251.3	246.5	227.1	222.4	198.2	198.2
87.5°	33.8	33.8	48.3	53.2	43.5	48.3	48.3	48.3	48.3	48.3	53.2
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)