

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: P533683

Luminaire Tested: **GALN-SA9A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533683  
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-SA9A-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA 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: 20936 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

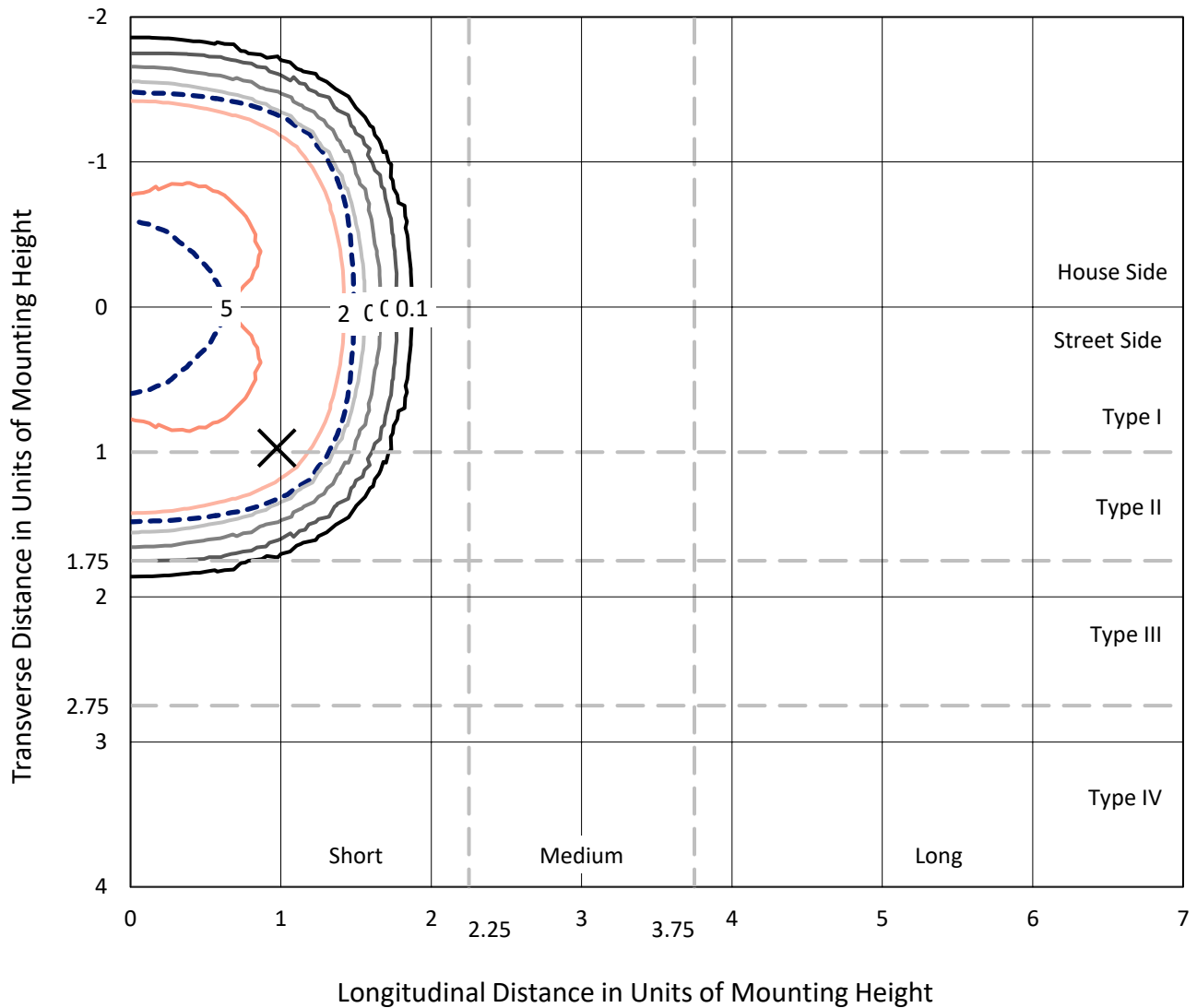
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

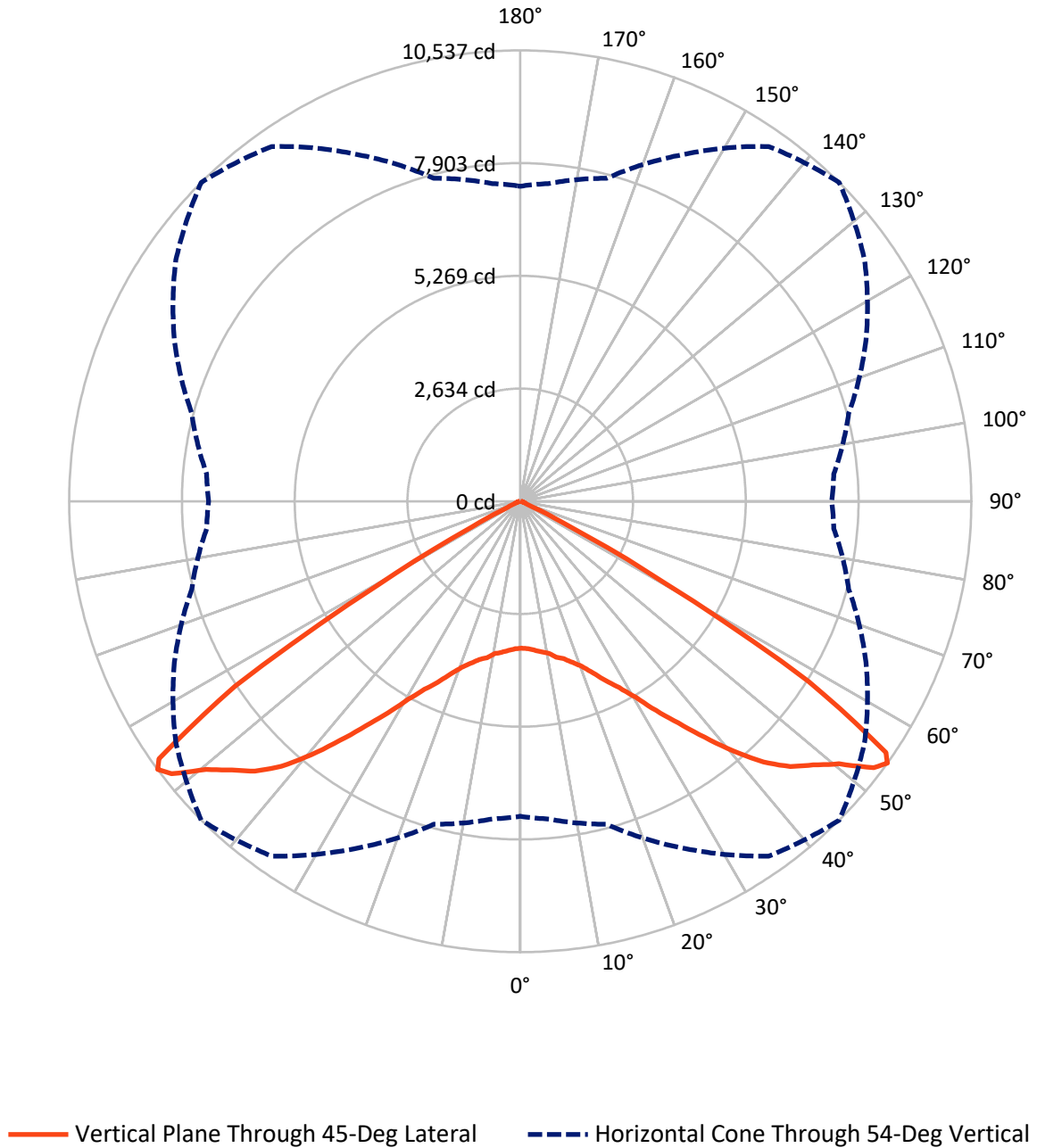
✕ Max cd  
 - - - 1/2 Max cd



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



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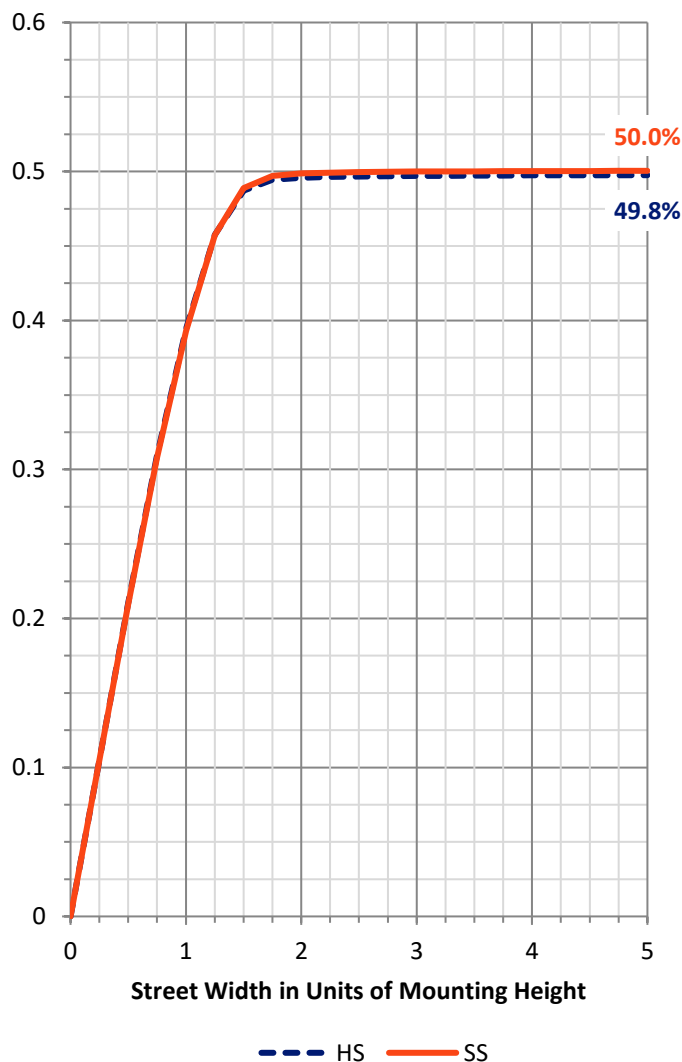
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10468.0	0.0	10468.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10468.0	0.0	10468.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20936.0	0.0	20936.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.0	1.6
10°-20°	1088.1	5.2
20°-30°	2132.6	10.2
30°-40°	3834.8	18.3
40°-50°	6564.4	31.4
50°-60°	6351.7	30.3
60°-70°	543.7	2.6
70°-80°	64.5	0.3
80°-90°	20.2	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°	20936.0	100.0
0°-180°	20936.0	100.0

**Coefficient of Utilization**

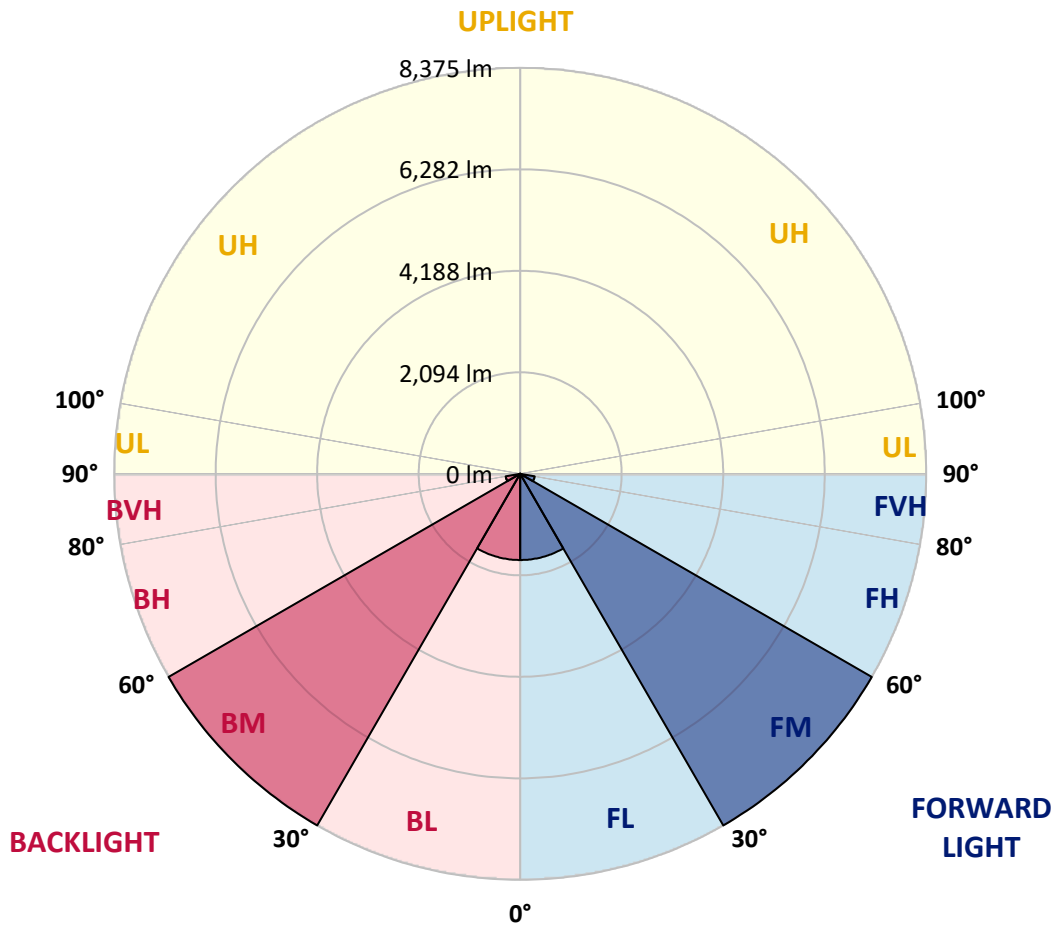


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.3	8.5			
FM (30°-60°)	8375.5	40.0			
FH (60°-80°)	304.1	1.5			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	1778.3	8.5	B3/2500		
BM (30°-60°)	8375.5	40.0	B4/8500		
BH (60°-80°)	304.1	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°	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9
2.5°	3449.4	3469.3	3456.1	3466.0	3466.0	3449.4	3459.4	3419.6	3446.1	3426.2	3429.5
5°	3502.5	3499.2	3499.2	3502.5	3489.2	3495.9	3482.6	3469.3	3459.4	3446.1	3485.9
7.5°	3568.8	3568.8	3545.6	3552.3	3545.6	3555.6	3529.0	3502.5	3492.6	3482.6	3476.0
10°	3631.9	3625.2	3615.3	3645.1	3621.9	3608.6	3595.4	3578.8	3542.3	3529.0	3515.8
12.5°	3724.7	3721.4	3708.1	3738.0	3724.7	3738.0	3688.2	3645.1	3638.5	3595.4	3618.6
15°	3834.2	3864.0	3840.8	3840.8	3834.2	3817.6	3797.7	3777.8	3718.1	3701.5	3704.8
17.5°	3976.8	3966.9	3970.2	3970.2	4003.3	3960.2	3920.4	3870.7	3840.8	3830.9	3797.7
20°	4112.8	4126.1	4122.7	4146.0	4165.9	4119.4	4076.3	4069.7	3986.8	4000.0	3953.6
22.5°	4351.6	4341.6	4358.2	4374.8	4361.5	4354.9	4315.1	4265.4	4192.4	4159.2	4152.6
25°	4603.7	4587.1	4557.2	4597.0	4616.9	4646.8	4570.5	4544.0	4431.2	4381.4	4384.8
27.5°	4819.3	4842.5	4875.6	4892.2	4942.0	4932.0	4879.0	4792.7	4706.5	4650.1	4613.6
30°	5114.5	5127.7	5184.1	5207.3	5293.6	5316.8	5233.9	5134.4	4981.8	4908.8	4865.7
32.5°	5386.4	5479.3	5476.0	5592.1	5731.4	5827.6	5678.3	5525.7	5373.2	5286.9	5210.6
35°	5827.6	5811.0	5907.2	6029.9	6255.4	6364.9	6202.4	6026.6	5794.4	5655.1	5595.4
37.5°	6238.8	6245.5	6374.8	6570.5	6829.2	6998.4	6855.8	6567.2	6328.4	6149.3	6066.4
40°	6835.9	6849.1	6981.8	7204.0	7495.9	7678.3	7512.5	7220.6	6902.2	6762.9	6762.9
42.5°	7535.7	7592.1	7678.3	7870.7	8132.7	8335.0	8185.8	7956.9	7635.2	7456.1	7482.6
45°	8255.4	8282.0	8338.3	8623.6	8746.3	8845.8	8706.5	8600.4	8384.8	8165.9	8129.4
47.5°	8928.7	8938.7	9104.5	9194.1	9290.3	9207.3	9296.9	9157.6	8915.5	8703.2	8660.1
50°	9227.2	9210.7	9446.1	9718.1	9791.1	9645.2	9568.9	9476.0	9107.8	8852.4	8739.7
52.5°	8358.2	8454.4	8892.2	9648.5	10219.0	10341.7	9897.2	9469.4	8782.8	8285.3	8209.0
54°	7363.2	7452.8	7814.3	8935.4	10122.8	10537.4	9820.9	8912.1	7943.7	7353.3	7277.0
55°	6378.1	6278.6	6935.4	8079.6	9671.7	10364.9	9519.1	8192.4	7084.6	6544.0	6437.8
57.5°	3452.8	3469.3	4023.2	5104.5	6796.1	7947.0	7018.3	5542.3	4185.8	3578.8	3525.7
60°	1094.5	1121.1	1363.2	2063.0	3247.1	3877.3	3323.4	2225.5	1539.0	1233.8	1184.1
62.5°	341.6	354.9	388.1	577.1	888.9	1270.3	995.0	597.0	444.4	408.0	414.6
65°	209.0	209.0	212.3	225.5	265.3	308.5	298.5	262.0	252.1	245.4	242.1
67.5°	136.0	132.7	139.3	149.3	155.9	159.2	169.2	179.1	175.8	169.2	169.2
70°	82.9	79.6	86.2	99.5	102.8	109.5	119.4	132.7	129.4	122.7	126.0
72.5°	46.4	46.4	49.8	59.7	69.7	76.3	86.2	96.2	99.5	96.2	96.2
75°	16.6	19.9	26.5	36.5	43.1	53.1	63.0	73.0	82.9	76.3	73.0
77.5°	6.6	6.6	13.3	23.2	33.2	43.1	59.7	69.7	76.3	69.7	63.0
80°	3.3	3.3	10.0	19.9	29.9	39.8	49.8	59.7	63.0	56.4	49.8
82.5°	3.3	3.3	10.0	19.9	29.9	36.5	53.1	59.7	66.3	59.7	49.8
85°	0.0	3.3	10.0	19.9	26.5	29.9	29.9	19.9	16.6	10.0	10.0
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)