

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: P646926

Luminaire Tested: **GALN-SA5C-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646926  
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-SA5C-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA 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: 18937.6 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

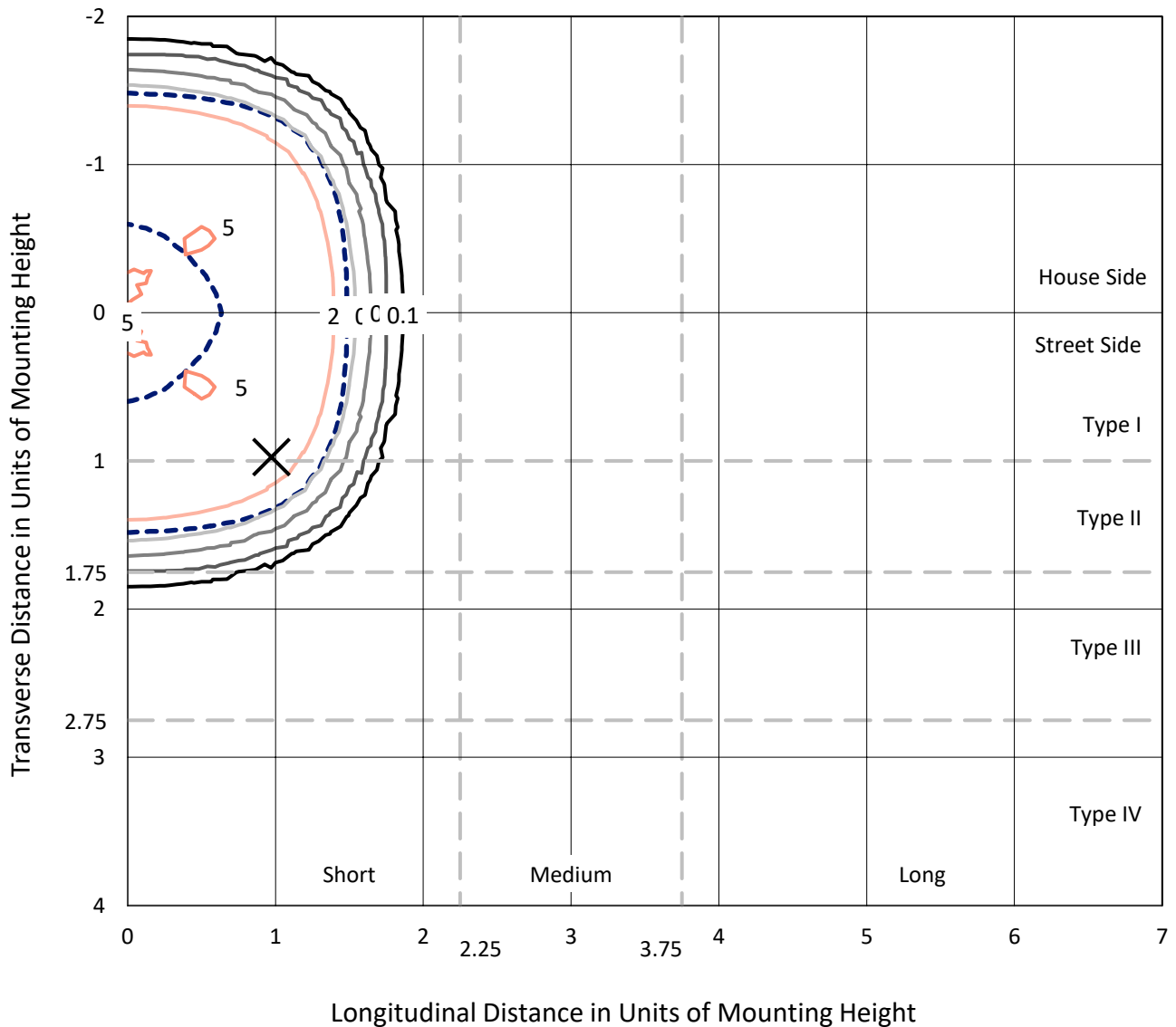
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

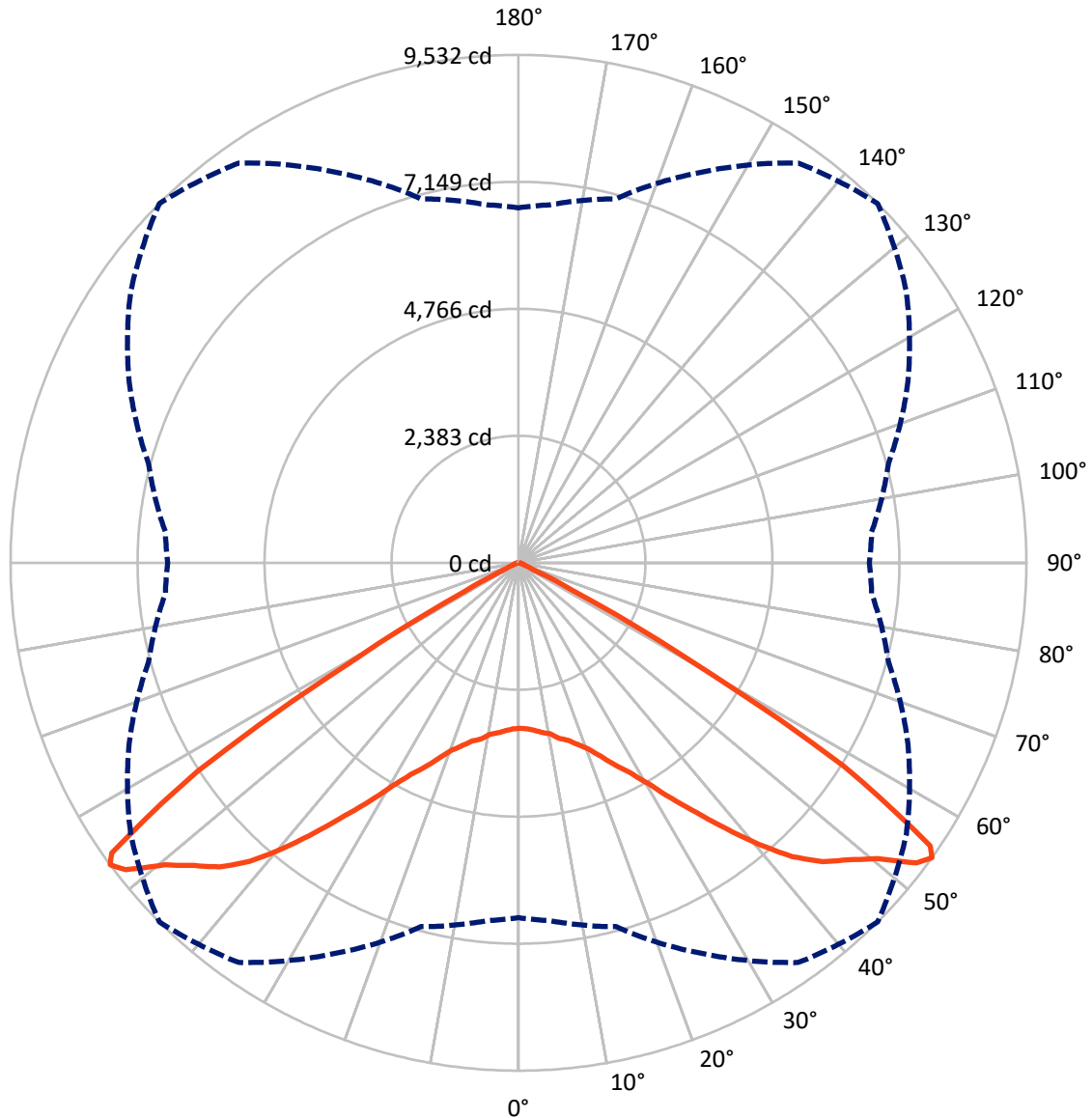
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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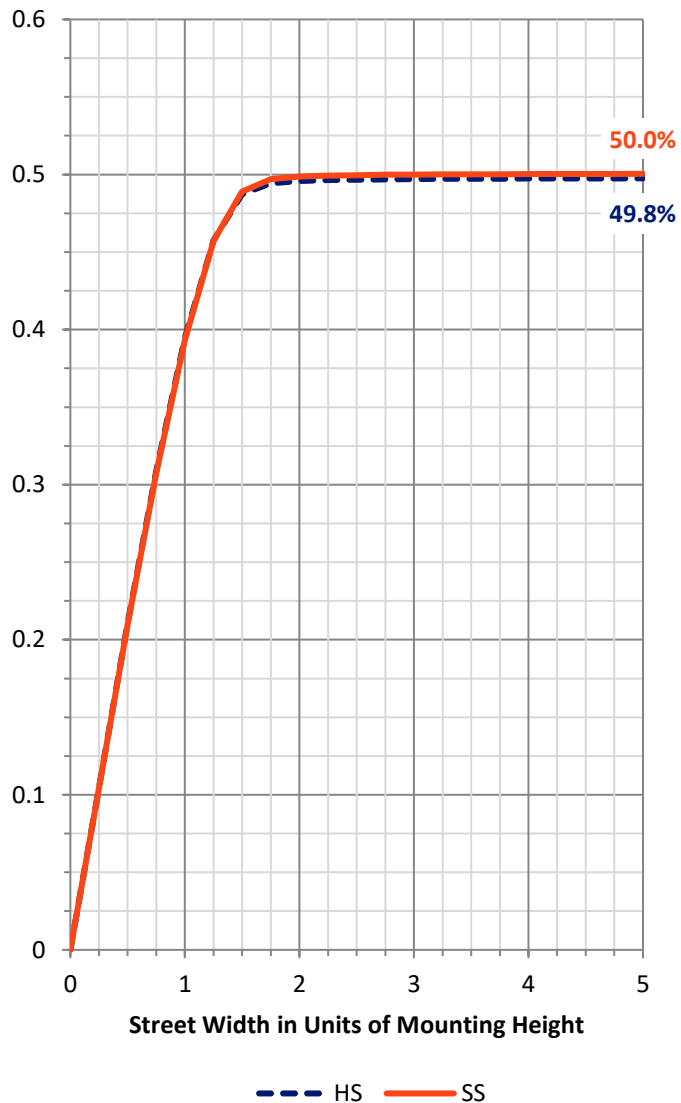
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9468.8	0.0	9468.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9468.8	0.0	9468.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18937.6	0.0	18937.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.9	1.6
10°-20°	984.2	5.2
20°-30°	1929.0	10.2
30°-40°	3468.8	18.3
40°-50°	5937.9	31.4
50°-60°	5745.4	30.3
60°-70°	491.8	2.6
70°-80°	58.3	0.3
80°-90°	18.3	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°	18937.6	100.0
0°-180°	18937.6	100.0

**Coefficient of Utilization**



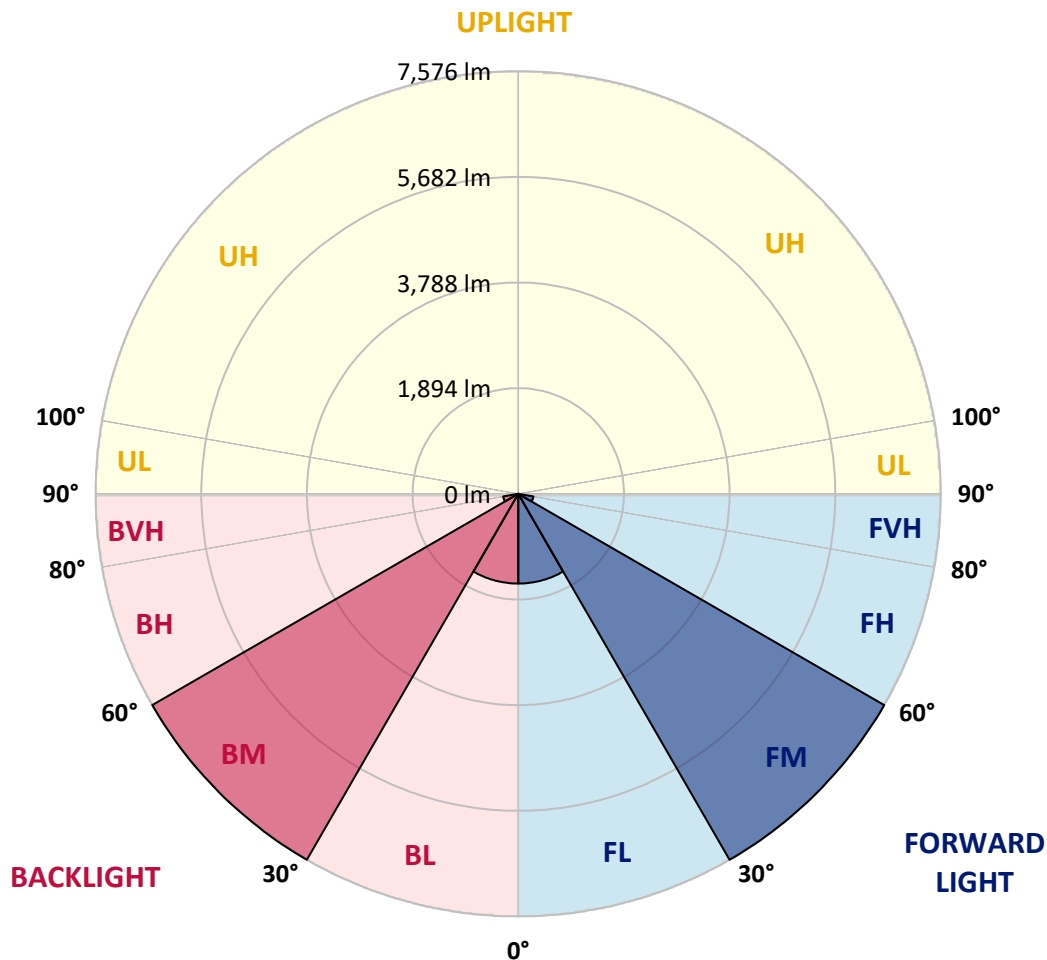
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.6	8.5			
FM (30°-60°)	7576.0	40.0			
FH (60°-80°)	275.1	1.5			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	1608.6	8.5	B3/2500		
BM (30°-60°)	7576.0	40.0	B4/8500		
BH (60°-80°)	275.1	1.5	B1/500		G0/660
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2
2.5°	3120.2	3138.2	3126.2	3135.2	3135.2	3120.2	3129.2	3093.2	3117.2	3099.2	3102.2
5°	3168.2	3165.2	3165.2	3168.2	3156.2	3162.2	3150.2	3138.2	3129.2	3117.2	3153.2
7.5°	3228.2	3228.2	3207.2	3213.2	3207.2	3216.2	3192.2	3168.2	3159.2	3150.2	3144.2
10°	3285.2	3279.2	3270.2	3297.2	3276.2	3264.2	3252.2	3237.2	3204.2	3192.2	3180.2
12.5°	3369.2	3366.2	3354.2	3381.2	3369.2	3381.2	3336.2	3297.2	3291.2	3252.2	3273.2
15°	3468.2	3495.2	3474.2	3474.2	3468.2	3453.2	3435.2	3417.2	3363.2	3348.2	3351.2
17.5°	3597.2	3588.2	3591.2	3591.2	3621.2	3582.2	3546.2	3501.2	3474.2	3465.2	3435.2
20°	3720.2	3732.2	3729.2	3750.3	3768.2	3726.2	3687.2	3681.2	3606.2	3618.2	3576.2
22.5°	3936.2	3927.2	3942.2	3957.2	3945.2	3939.2	3903.3	3858.2	3792.2	3762.2	3756.2
25°	4164.2	4149.3	4122.3	4158.3	4176.2	4203.2	4134.2	4110.3	4008.3	3963.2	3966.2
27.5°	4359.3	4380.3	4410.2	4425.3	4470.2	4461.3	4413.2	4335.2	4257.2	4206.3	4173.2
30°	4626.3	4638.3	4689.3	4710.3	4788.3	4809.3	4734.3	4644.3	4506.2	4440.2	4401.2
32.5°	4872.3	4956.3	4953.3	5058.3	5184.3	5271.3	5136.3	4998.3	4860.3	4782.3	4713.3
35°	5271.3	5256.3	5343.3	5454.3	5658.3	5757.3	5610.4	5451.3	5241.3	5115.3	5061.3
37.5°	5643.3	5649.3	5766.3	5943.4	6177.4	6330.4	6201.4	5940.4	5724.4	5562.4	5487.3
40°	6183.4	6195.3	6315.4	6516.4	6780.4	6945.4	6795.4	6531.4	6243.3	6117.3	6117.3
42.5°	6816.4	6867.4	6945.4	7119.4	7356.4	7539.4	7404.4	7197.4	6906.4	6744.4	6768.4
45°	7467.5	7491.4	7542.5	7800.5	7911.4	8001.5	7875.5	7779.5	7584.5	7386.4	7353.5
47.5°	8076.5	8085.5	8235.5	8316.5	8403.5	8328.5	8409.5	8283.5	8064.5	7872.4	7833.4
50°	8346.5	8331.5	8544.5	8790.5	8856.5	8724.5	8655.5	8571.5	8238.5	8007.5	7905.5
52.5°	7560.4	7647.5	8043.4	8727.5	9243.5	9354.6	8952.5	8565.5	7944.5	7494.4	7425.4
54°	6660.4	6741.4	7068.5	8082.4	9156.6	9531.5	8883.5	8061.5	7185.4	6651.4	6582.4
55°	5769.3	5679.3	6273.4	7308.4	8748.5	9375.6	8610.5	7410.5	6408.4	5919.3	5823.3
57.5°	3123.2	3138.2	3639.2	4617.3	6147.3	7188.4	6348.4	5013.3	3786.2	3237.2	3189.2
60°	990.0	1014.1	1233.1	1866.1	2937.2	3507.2	3006.2	2013.1	1392.1	1116.1	1071.1
62.5°	309.1	321.0	351.0	522.0	804.1	1149.1	900.1	540.0	402.0	369.0	375.1
65°	189.0	189.0	192.0	204.0	240.0	279.0	270.0	237.0	228.0	222.0	219.0
67.5°	123.0	120.0	126.0	135.0	141.0	144.0	153.0	162.0	159.0	153.0	153.0
70°	75.0	72.0	78.0	90.0	93.0	99.0	108.0	120.0	117.0	111.0	114.0
72.5°	42.0	42.0	45.0	54.0	63.0	69.0	78.0	87.0	90.0	87.0	87.0
75°	15.0	18.0	24.0	33.0	39.0	48.0	57.0	66.0	75.0	69.0	66.0
77.5°	6.0	6.0	12.0	21.0	30.0	39.0	54.0	63.0	69.0	63.0	57.0
80°	3.0	3.0	9.0	18.0	27.0	36.0	45.0	54.0	57.0	51.0	45.0
82.5°	3.0	3.0	9.0	18.0	27.0	33.0	48.0	54.0	60.0	54.0	45.0
85°	0.0	3.0	9.0	18.0	24.0	27.0	27.0	18.0	15.0	9.0	9.0
87.5°	0.0	0.0	3.0	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)