

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: P647367

Luminaire Tested: **GALN-SA4D-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21583.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

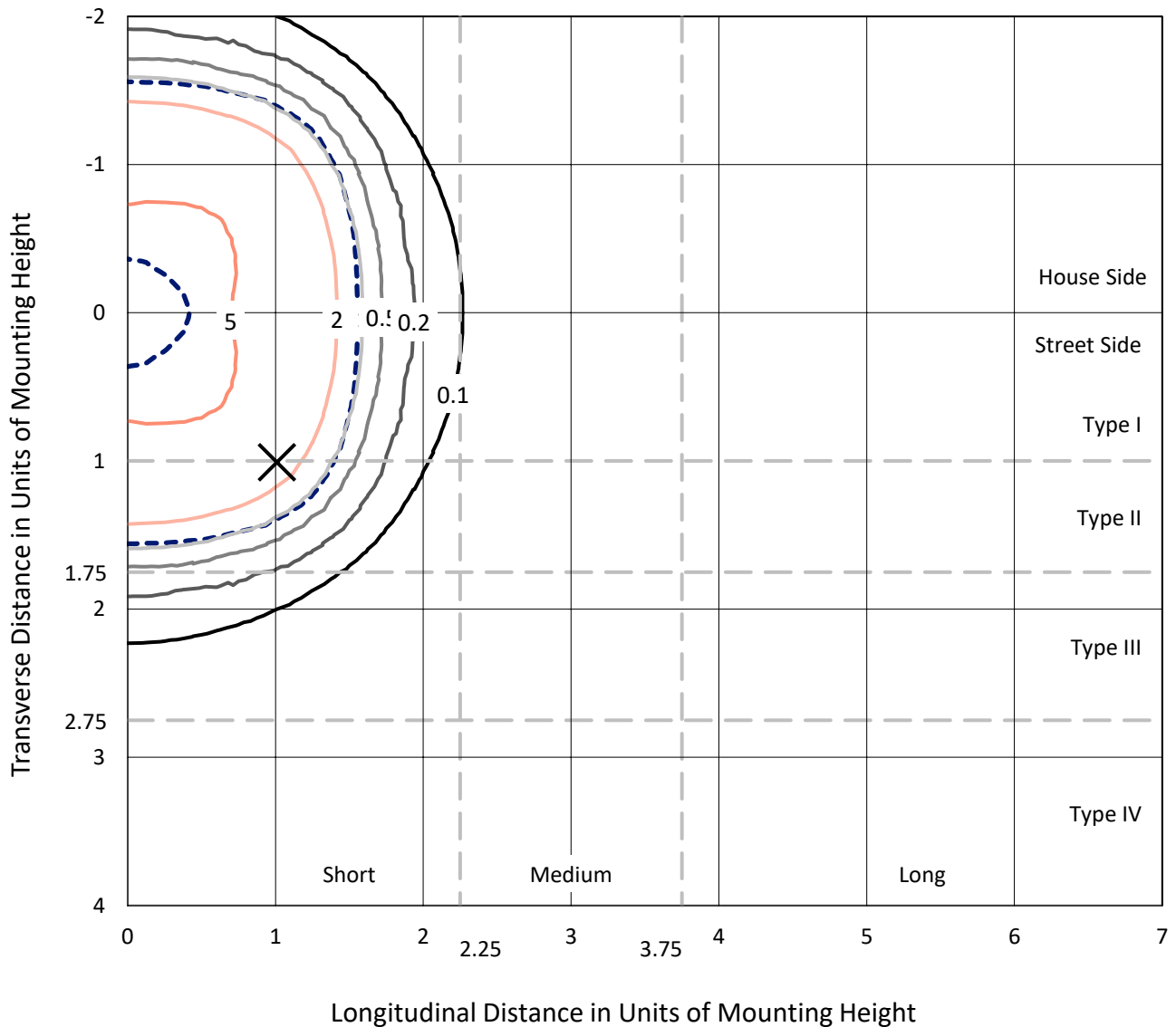
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

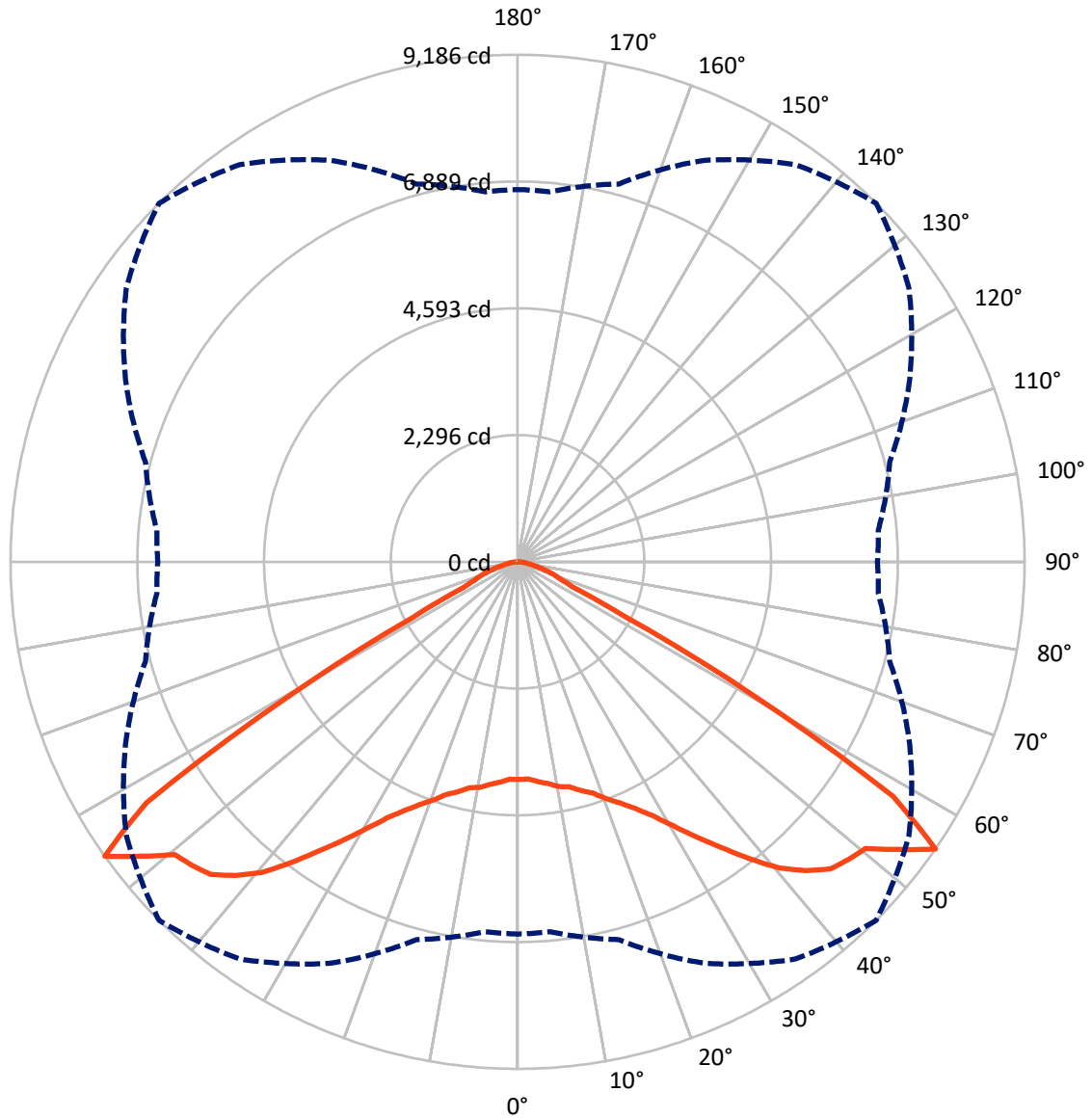
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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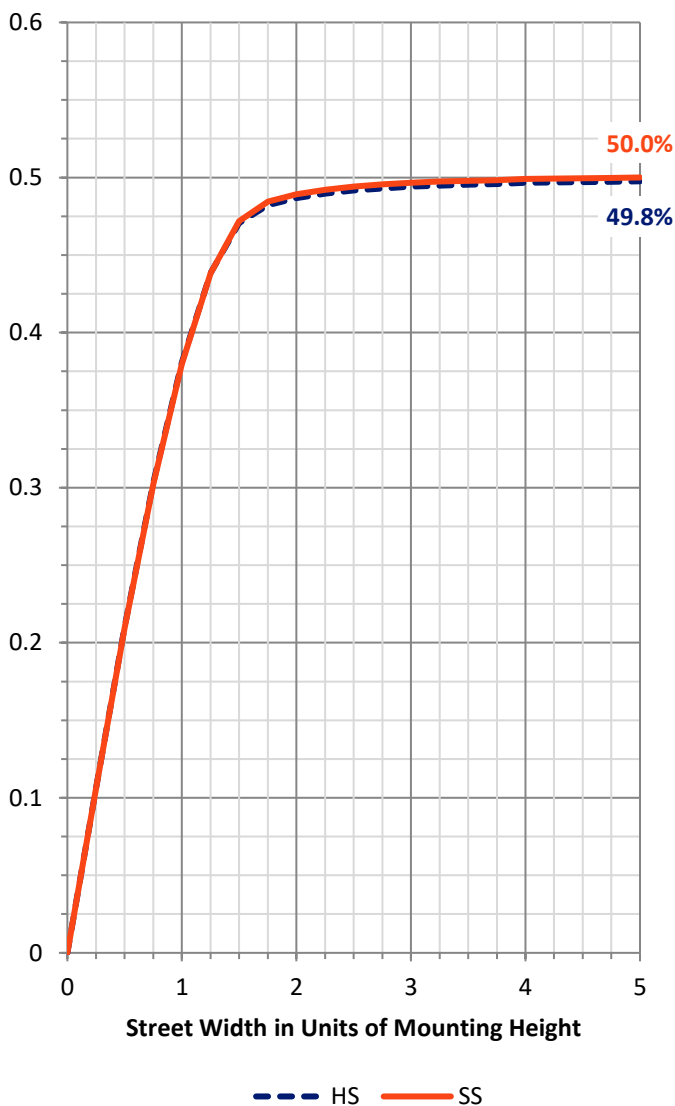
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10791.7	0.0	10791.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10791.7	0.0	10791.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21583.4	0.0	21583.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.0	1.8
10°-20°	1219.8	5.7
20°-30°	2274.6	10.5
30°-40°	3808.3	17.6
40°-50°	5926.1	27.5
50°-60°	6153.1	28.5
60°-70°	1304.9	6.0
70°-80°	429.7	2.0
80°-90°	81.9	0.4
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°	21583.4	100.0
0°-180°	21583.4	100.0

**Coefficient of Utilization**



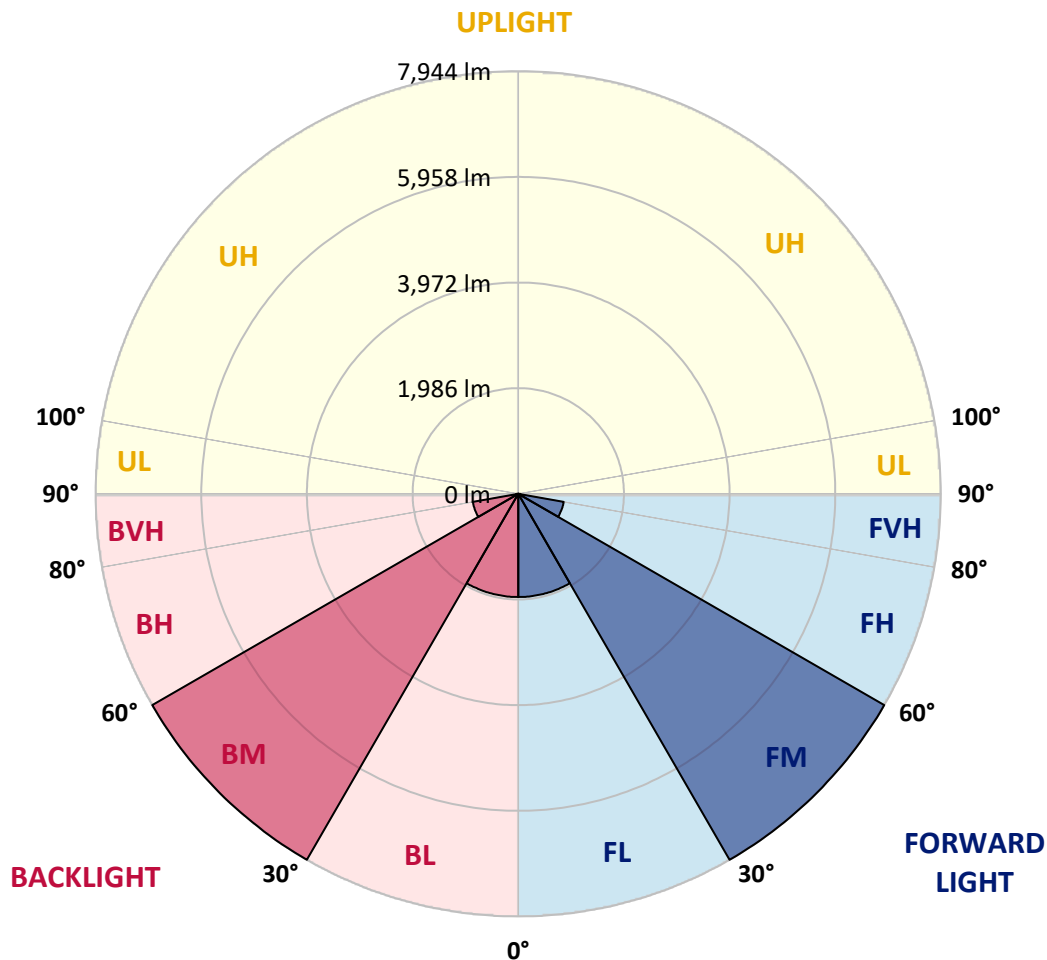
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.7	9.0			
FM (30°-60°)	7943.8	36.8			
FH (60°-80°)	867.3	4.0			G1/1800
FVH (80°-90°)	40.9	0.2			G1/100
BL (0°-30°)	1939.7	9.0	B3/2500		
BM (30°-60°)	7943.8	36.8	B4/8500		
BH (60°-80°)	867.3	4.0	B2/1000		G1/1800
BVH (80°-90°)	40.9	0.2			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°	3940.8	3940.8	3940.8	3940.8	3940.8	3940.8	3940.8	3940.8	3940.8	3940.8	3940.8
2.5°	3987.7	3969.5	3938.2	3961.7	3979.9	3940.8	3956.4	3964.3	3959.1	3938.2	3946.0
5°	4045.1	4034.7	4008.6	4026.9	4003.4	4003.4	3987.7	3966.9	3998.2	3993.0	4006.0
7.5°	4045.1	4032.1	4084.3	4050.4	4060.8	4060.8	4034.7	4013.8	4029.5	4006.0	3993.0
10°	4126.0	4144.3	4120.8	4128.6	4123.4	4141.6	4102.5	4089.5	4076.5	4068.6	4053.0
12.5°	4222.5	4209.4	4217.2	4212.1	4230.3	4183.3	4159.9	4131.2	4154.7	4120.8	4144.3
15°	4300.7	4292.9	4300.7	4321.6	4303.4	4300.7	4259.0	4230.3	4193.8	4201.6	4165.1
17.5°	4407.7	4399.8	4402.4	4420.7	4418.1	4405.1	4373.8	4318.9	4306.0	4285.0	4261.6
20°	4566.8	4553.7	4548.5	4556.3	4569.4	4579.8	4517.2	4496.3	4452.0	4418.1	4378.9
22.5°	4702.4	4697.1	4718.0	4684.1	4712.8	4744.1	4684.1	4673.6	4564.1	4545.9	4504.1
25°	4890.1	4882.3	4869.3	4918.8	4952.7	4950.1	4892.7	4835.3	4751.9	4731.0	4731.0
27.5°	5088.3	5044.0	5111.8	5124.9	5184.9	5203.1	5153.5	5070.1	4991.9	4947.5	4958.0
30°	5336.1	5294.4	5310.1	5404.0	5482.2	5550.0	5424.8	5302.2	5192.7	5114.5	5101.4
32.5°	5583.9	5542.2	5589.1	5680.4	5836.9	5938.6	5816.0	5602.1	5474.3	5359.6	5383.0
35°	5784.7	5816.0	5891.7	6029.9	6191.6	6355.9	6160.3	5996.0	5813.4	5685.6	5703.8
37.5°	6108.1	6204.6	6264.6	6423.7	6653.2	6822.7	6619.3	6405.4	6209.8	6042.9	5985.6
40°	6530.6	6595.8	6663.6	6851.4	7122.6	7292.2	7099.2	6820.1	6627.2	6455.0	6447.1
42.5°	6994.9	7057.5	7127.9	7357.4	7519.1	7646.9	7469.5	7320.9	7107.0	6971.4	6963.5
45°	7534.7	7490.4	7568.6	7719.9	7855.5	7939.0	7824.2	7751.2	7597.3	7472.2	7459.1
47.5°	7894.7	7855.5	7996.4	8132.0	8152.8	8061.5	8085.0	8152.8	7991.1	7785.1	7850.3
50°	8103.3	8103.3	8197.2	8322.4	8283.3	8165.9	8351.1	8356.3	8194.6	8012.0	8012.0
52.5°	7740.7	7821.6	8087.7	8497.1	8627.5	8661.4	8619.7	8442.4	8019.9	7646.9	7628.6
55°	6744.5	6726.2	7086.2	8025.0	8784.0	9185.7	8653.6	7837.3	6979.2	6559.3	6517.6
57.5°	4386.8	4407.7	4944.9	5902.1	7271.3	8019.9	7122.6	5975.1	4944.9	4365.9	4420.7
60°	1974.3	2044.7	2370.8	3085.3	4261.6	4871.9	4272.0	3241.9	2488.1	2159.5	2188.2
62.5°	1134.5	1147.6	1160.6	1377.1	1815.2	2146.4	1885.6	1455.3	1283.2	1225.8	1225.8
65°	957.1	949.3	952.0	970.2	1017.1	1084.9	1056.3	1017.1	1022.4	1017.1	1009.4
67.5°	813.7	824.2	816.4	829.4	832.0	842.4	860.7	876.3	878.9	884.2	878.9
70°	667.7	670.2	675.5	685.9	688.6	696.3	722.5	735.5	743.3	743.3	753.7
72.5°	511.2	508.6	513.8	524.2	537.3	539.9	563.4	581.6	592.0	579.0	581.6
75°	336.5	339.0	346.9	354.7	372.9	391.2	399.0	417.3	419.9	425.1	412.1
77.5°	200.8	206.0	213.8	229.5	245.2	260.8	279.1	292.1	297.3	292.1	276.5
80°	130.4	130.4	140.9	153.9	172.1	185.2	195.6	206.0	213.8	206.0	200.8
82.5°	80.9	80.9	93.9	109.5	122.6	130.4	146.0	159.1	166.9	161.7	153.9
85°	41.7	44.3	54.7	67.8	78.2	83.5	80.9	73.1	65.2	62.6	57.4
87.5°	13.1	13.1	15.7	15.7	13.1	13.1	15.7	13.1	15.7	15.7	15.7
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)