

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: P457529

Luminaire Tested: **GALN-SA8D-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48061 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 493  
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

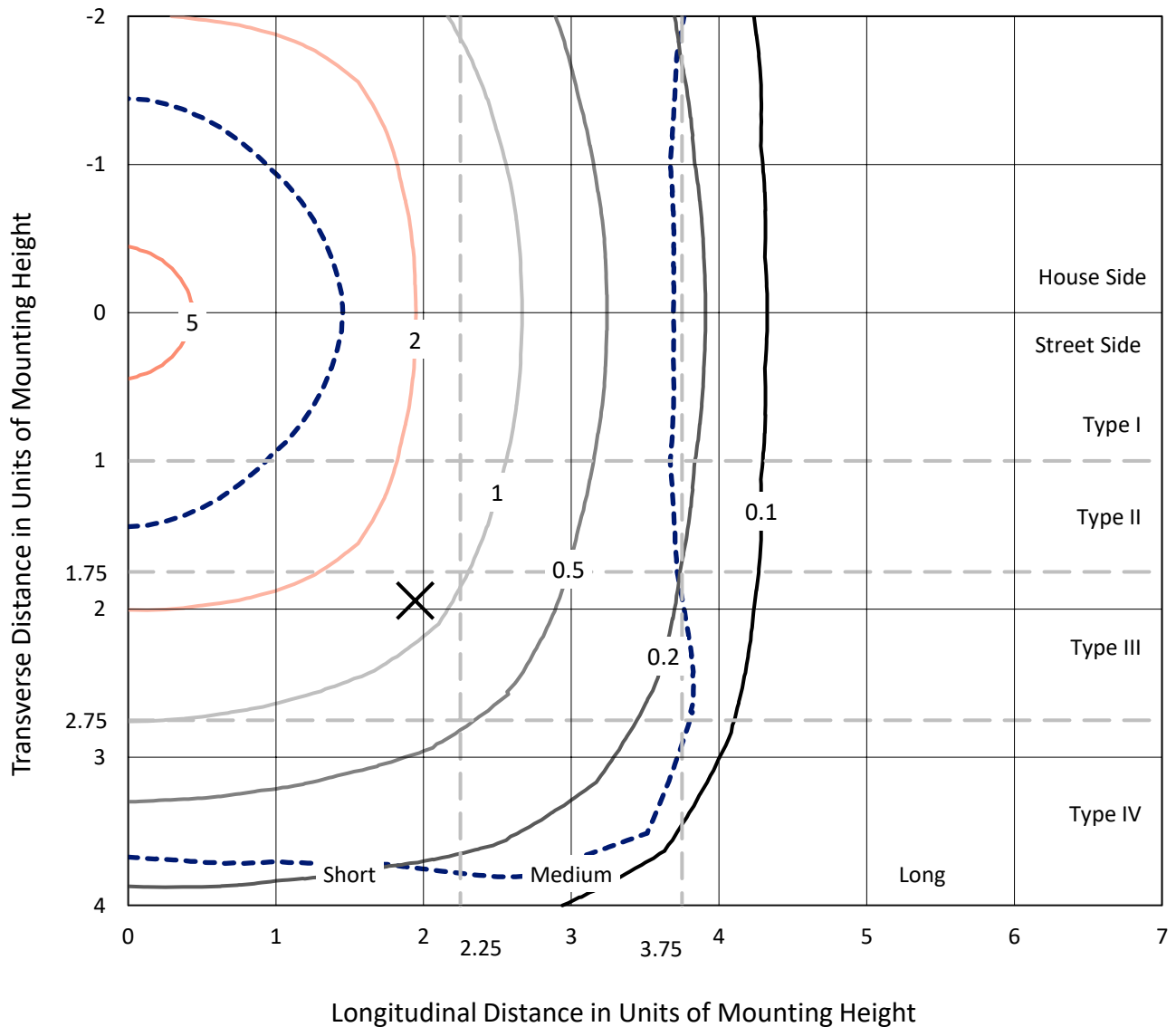




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### Iso-Footcandle Lines of Horizontal Illumination

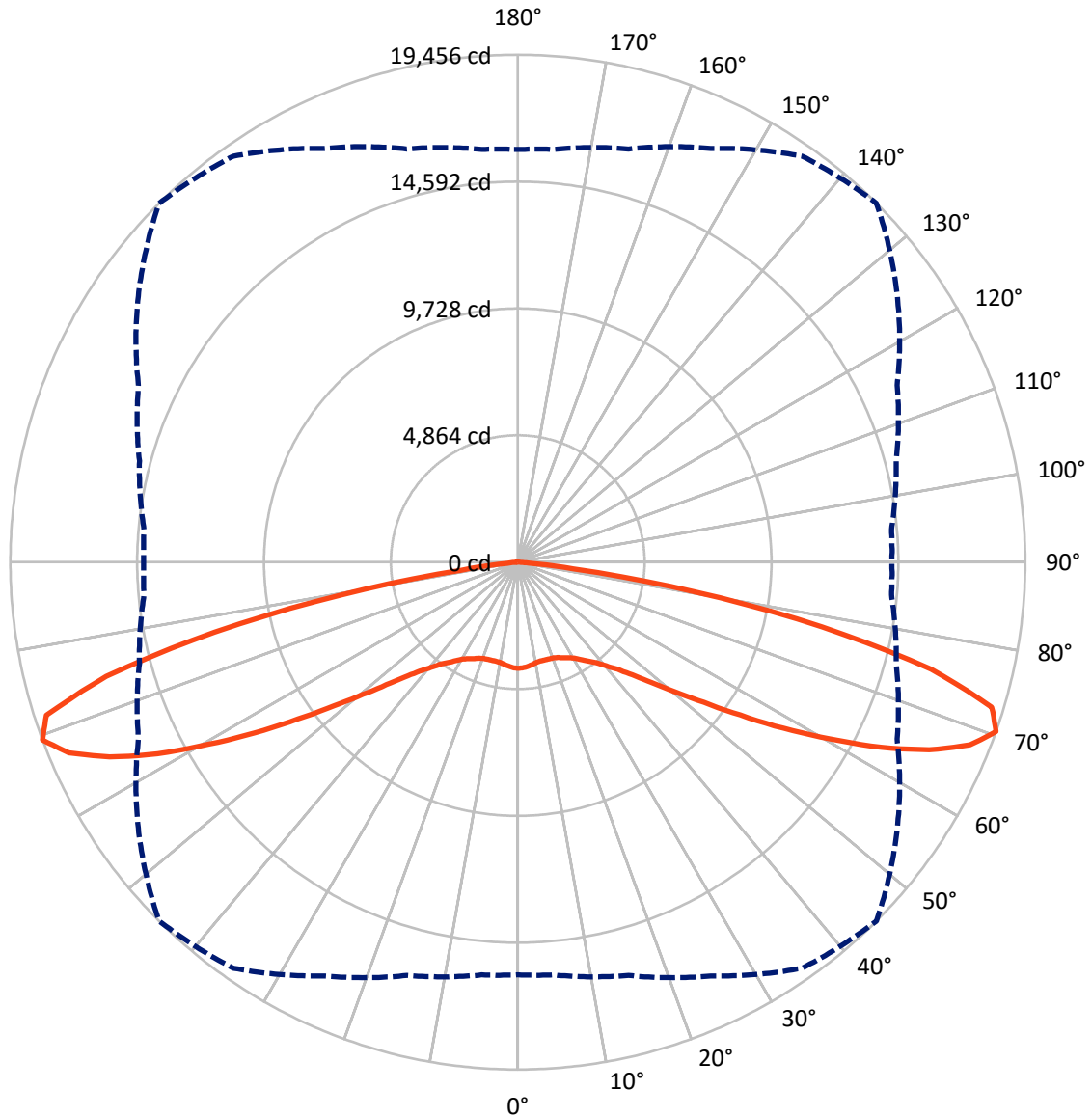
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24030.5	0.0	24030.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24030.5	0.0	24030.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48061.0	0.0	48061.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.5	0.8
10°-20°	1114.0	2.3
20°-30°	1898.0	3.9
30°-40°	2941.9	6.1
40°-50°	4951.6	10.3
50°-60°	9009.2	18.7
60°-70°	15252.4	31.7
70°-80°	11805.9	24.6
80°-90°	707.4	1.5
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°	48061.0	100.0
0°-180°	48061.0	100.0



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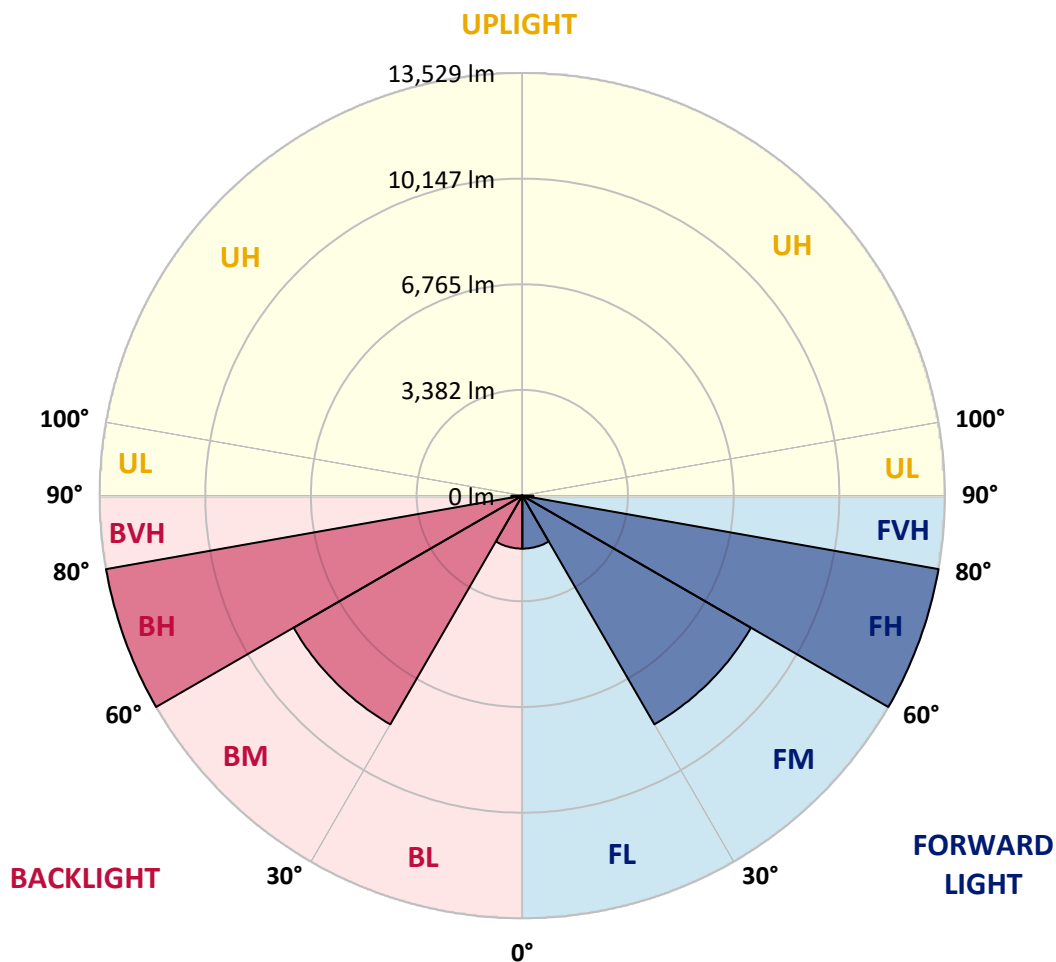
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.3	3.5			
FM (30°-60°)	8451.4	17.6			
FH (60°-80°)	13529.2	28.1			G5
FVH (80°-90°)	353.7	0.7			G3/500
BL (0°-30°)	1696.3	3.5	B3/2500		
BM (30°-60°)	8451.4	17.6	B4/8500		
BH (60°-80°)	13529.2	28.1	B5		G5
BVH (80°-90°)	353.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0
2.5°	4058.8	4061.3	4061.3	4056.3	4053.7	4053.7	4051.2	4051.2	4058.8	4061.3	4063.9
5°	4023.3	4023.3	4023.3	4020.7	4015.6	4015.6	4010.6	4010.6	4013.1	4020.7	4015.6
7.5°	3975.0	3980.1	3980.1	3970.0	3962.3	3962.3	3959.8	3962.3	3964.9	3972.5	3970.0
10°	3959.8	3962.3	3949.7	3931.9	3919.2	3911.6	3914.1	3919.2	3931.9	3937.0	3939.5
12.5°	3970.0	3970.0	3947.1	3921.7	3898.9	3888.7	3886.2	3904.0	3926.8	3942.0	3947.1
15°	3982.6	3977.6	3949.7	3916.7	3893.8	3891.3	3888.7	3901.4	3934.4	3964.9	3967.4
17.5°	3990.3	3987.7	3952.2	3911.6	3898.9	3898.9	3896.3	3906.5	3942.0	3980.1	3982.6
20°	4015.6	4008.0	3967.4	3924.3	3914.1	3919.2	3911.6	3924.3	3962.3	4008.0	4018.2
22.5°	4066.4	4058.8	4018.2	3975.0	3970.0	3970.0	3967.4	3980.1	4020.7	4069.0	4076.6
25°	4127.3	4119.7	4081.6	4051.2	4056.3	4066.4	4061.3	4063.9	4096.9	4137.5	4150.2
27.5°	4208.6	4195.9	4162.9	4137.5	4152.7	4152.7	4152.7	4150.2	4170.5	4208.6	4221.3
30°	4307.6	4302.5	4266.9	4264.4	4277.1	4264.4	4264.4	4266.9	4269.5	4305.0	4317.7
32.5°	4437.0	4426.9	4409.1	4404.0	4439.5	4449.7	4414.2	4381.2	4398.9	4434.5	4442.1
35°	4650.2	4635.0	4609.6	4581.7	4609.6	4657.8	4581.7	4556.3	4602.0	4650.2	4655.3
37.5°	4939.6	4932.0	4891.4	4840.6	4838.1	4888.8	4810.1	4807.6	4893.9	4952.3	4959.9
40°	5302.6	5310.2	5259.4	5211.2	5185.8	5226.4	5165.5	5188.4	5272.1	5338.1	5333.0
42.5°	5812.8	5784.9	5706.2	5660.5	5632.6	5617.3	5602.1	5637.6	5731.6	5802.6	5858.5
45°	6409.3	6399.1	6300.1	6244.3	6183.4	6160.5	6155.5	6218.9	6333.1	6419.5	6427.1
47.5°	7084.5	7061.7	6998.2	6939.8	6917.0	6889.0	6863.7	6911.9	7026.1	7087.0	7104.8
50°	7780.0	7785.1	7785.1	7774.9	7797.8	7802.8	7734.3	7752.1	7815.5	7810.5	7805.4
52.5°	8574.5	8602.4	8734.4	8747.1	8856.3	8929.9	8805.5	8731.9	8709.0	8572.0	8582.1
55°	9508.6	9534.0	9732.0	9930.0	10224.4	10348.8	10087.3	9858.9	9696.4	9488.3	9498.5
57.5°	10673.7	10686.4	10874.2	11255.0	11722.0	12013.9	11554.5	11102.7	10772.7	10574.7	10496.0
60°	11927.6	11940.3	12214.5	12679.0	13405.0	13760.3	13191.7	12453.1	12036.8	11734.7	11755.0
62.5°	13432.9	13483.6	13729.9	14369.5	15250.3	15648.8	14895.0	13907.5	13344.0	12968.4	12983.6
65°	15044.7	15131.0	15400.1	16103.2	16915.5	17344.4	16420.5	15280.8	14580.2	14120.8	14169.0
67.5°	16090.5	16166.7	16555.0	17331.8	18344.6	18699.9	17506.9	16179.4	15303.6	14755.3	14653.8
70°	15824.0	15887.4	16405.3	17506.9	19007.1	19456.3	17765.8	16047.4	15016.8	14384.7	14344.1
72.5°	13968.5	13836.5	14592.9	16174.3	18250.6	19004.5	16951.0	14656.4	13359.3	12709.4	12633.3
75°	9257.3	9544.1	10661.0	12524.1	15440.7	16374.8	14468.5	11767.7	10135.6	9594.9	9511.1
77.5°	3094.2	3315.1	4307.6	7099.7	10526.5	11930.2	10541.7	7696.2	5444.7	4386.2	4406.6
80°	819.9	809.7	1048.3	1952.0	4548.7	6909.3	5295.0	2606.9	1426.5	1033.1	979.8
82.5°	294.4	330.0	423.9	540.7	1205.7	2147.4	1515.4	731.0	535.6	396.0	383.3
85°	129.5	126.9	182.8	215.8	302.1	401.1	355.4	309.7	271.6	180.2	167.5
87.5°	27.9	27.9	43.2	33.0	53.3	53.3	66.0	78.7	81.2	53.3	43.2
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)