

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: P457558

Luminaire Tested: **GALN-SA8D-830-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457558  
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-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 51953 lumens  
Efficiency: N/A  
Efficacy: 105.4 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

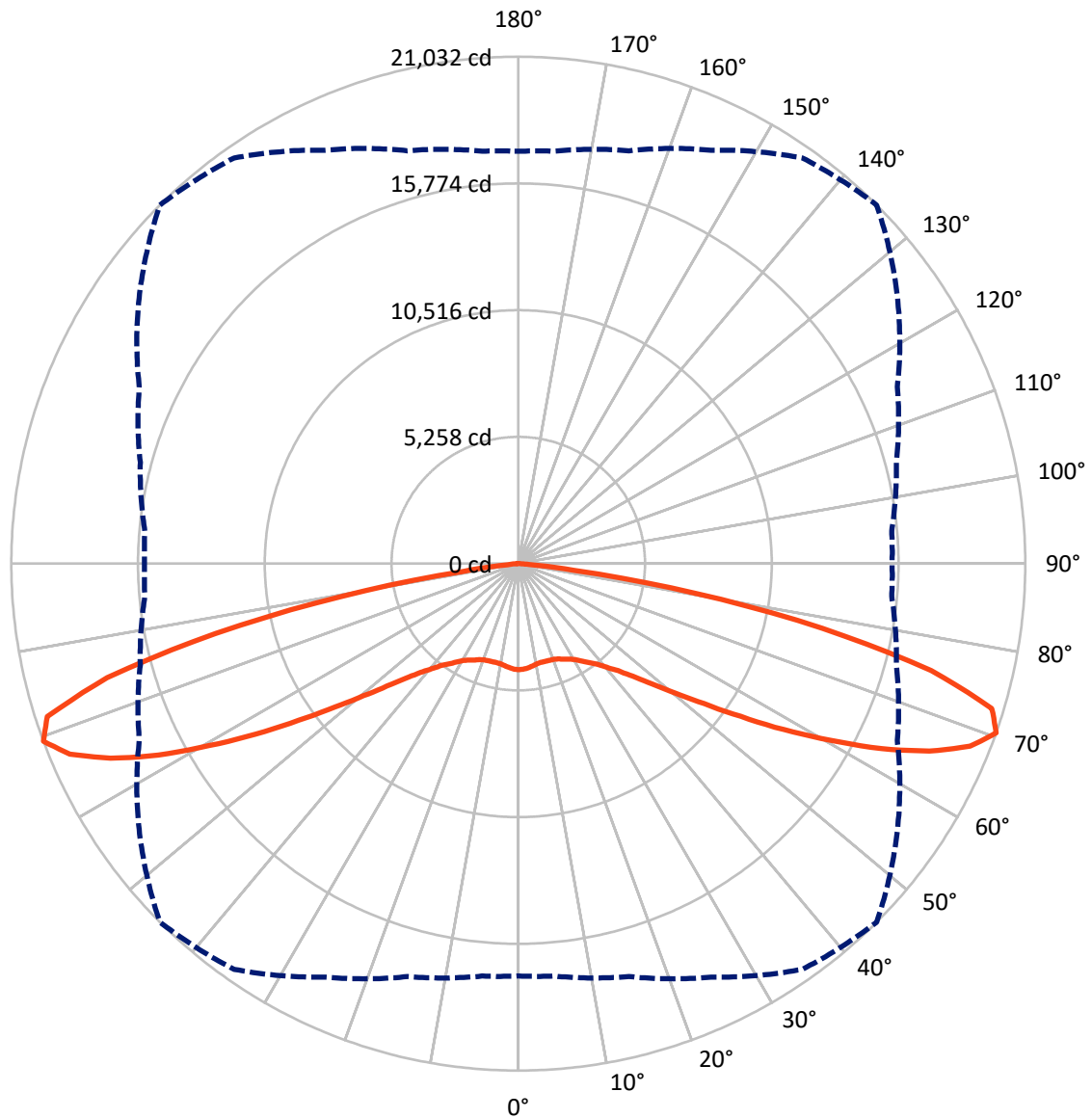
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### 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	25976.5	0.0	25976.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25976.5	0.0	25976.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51953.0	0.0	51953.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.3	0.8
10°-20°	1204.2	2.3
20°-30°	2051.7	3.9
30°-40°	3180.1	6.1
40°-50°	5352.6	10.3
50°-60°	9738.8	18.7
60°-70°	16487.5	31.7
70°-80°	12762.0	24.6
80°-90°	764.7	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°	51953.0	100.0
0°-180°	51953.0	100.0



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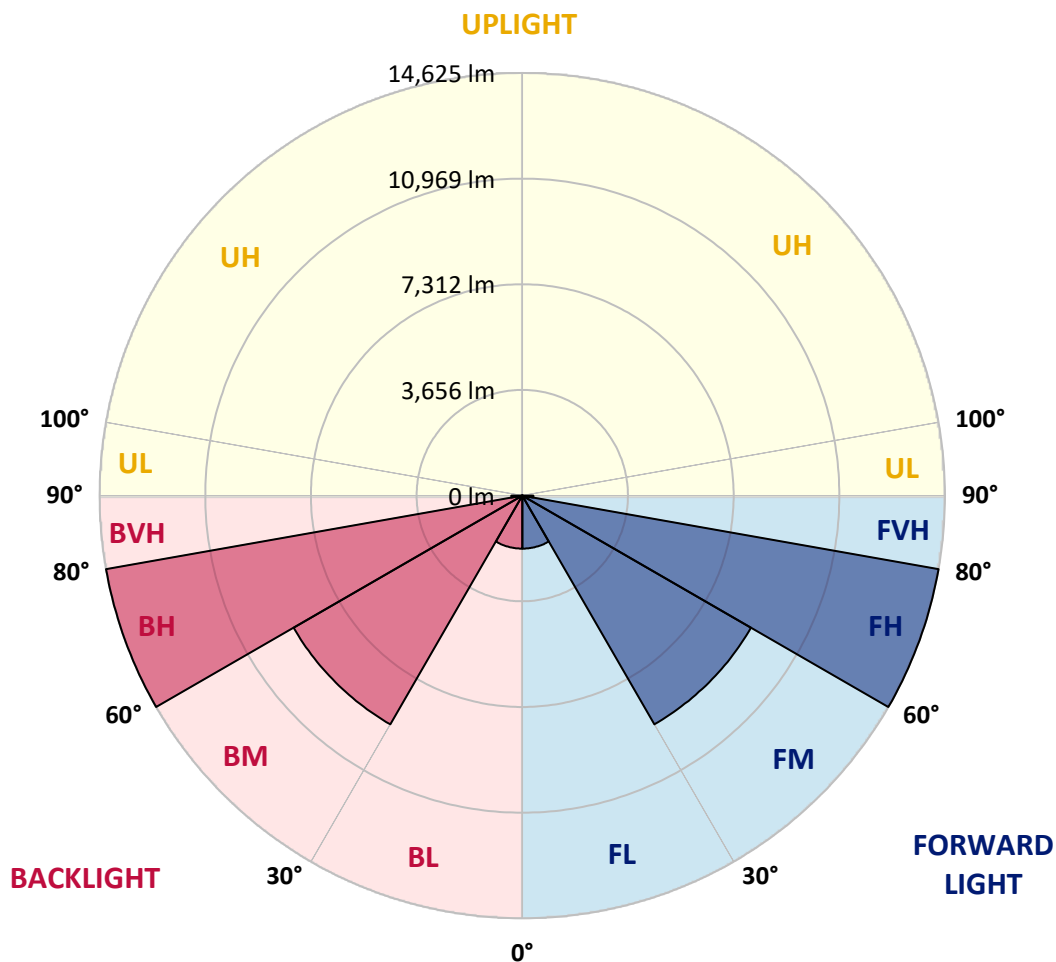
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.6	3.5			
FM (30°-60°)	9135.7	17.6			
FH (60°-80°)	14624.8	28.1			G5
FVH (80°-90°)	382.4	0.7			G3/500
BL (0°-30°)	1833.6	3.5	B3/2500		
BM (30°-60°)	9135.7	17.6	B5		
BH (60°-80°)	14624.8	28.1	B5		G5
BVH (80°-90°)	382.4	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°	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5	4398.5
2.5°	4387.5	4390.2	4390.2	4384.7	4382.0	4382.0	4379.3	4379.3	4387.5	4390.2	4393.0
5°	4349.1	4349.1	4349.1	4346.3	4340.8	4340.8	4335.3	4335.3	4338.1	4346.3	4340.8
7.5°	4296.9	4302.4	4302.4	4291.4	4283.2	4283.2	4280.5	4283.2	4286.0	4294.2	4291.4
10°	4280.5	4283.2	4269.5	4250.3	4236.6	4228.3	4231.1	4236.6	4250.3	4255.8	4258.5
12.5°	4291.4	4291.4	4266.8	4239.3	4214.6	4203.6	4200.9	4220.1	4244.8	4261.3	4266.8
15°	4305.2	4299.7	4269.5	4233.8	4209.1	4206.4	4203.6	4217.4	4253.0	4286.0	4288.7
17.5°	4313.4	4310.7	4272.2	4228.3	4214.6	4214.6	4211.9	4222.8	4261.3	4302.4	4305.2
20°	4340.8	4332.6	4288.7	4242.1	4231.1	4236.6	4228.3	4242.1	4283.2	4332.6	4343.6
22.5°	4395.7	4387.5	4343.6	4296.9	4291.4	4291.4	4288.7	4302.4	4346.3	4398.5	4406.7
25°	4461.6	4453.3	4412.2	4379.3	4384.7	4395.7	4390.2	4393.0	4428.6	4472.5	4486.3
27.5°	4549.4	4535.7	4500.0	4472.5	4489.0	4489.0	4489.0	4486.3	4508.2	4549.4	4563.1
30°	4656.4	4650.9	4612.5	4609.7	4623.5	4609.7	4609.7	4612.5	4615.2	4653.6	4667.4
32.5°	4796.3	4785.3	4766.1	4760.7	4799.1	4810.0	4771.6	4736.0	4755.2	4793.6	4801.8
35°	5026.8	5010.3	4982.9	4952.7	4982.9	5035.0	4952.7	4925.3	4974.7	5026.8	5032.3
37.5°	5339.6	5331.4	5287.5	5232.6	5229.9	5284.7	5199.7	5196.9	5290.2	5353.3	5361.6
40°	5732.0	5740.2	5685.3	5633.2	5605.8	5649.7	5583.8	5608.5	5699.1	5770.4	5764.9
42.5°	6283.5	6253.3	6168.3	6118.9	6088.7	6072.2	6055.8	6094.2	6195.7	6272.5	6332.9
45°	6928.3	6917.3	6810.3	6750.0	6684.1	6659.4	6653.9	6722.5	6846.0	6939.3	6947.5
47.5°	7658.2	7633.5	7564.9	7501.8	7477.1	7446.9	7419.5	7471.6	7595.1	7660.9	7680.2
50°	8410.0	8415.5	8415.5	8404.5	8429.2	8434.7	8360.6	8379.8	8448.4	8443.0	8437.5
52.5°	9268.9	9299.0	9441.7	9455.4	9573.4	9653.0	9518.6	9439.0	9414.3	9266.1	9277.1
55°	10278.6	10306.1	10520.1	10734.1	11052.4	11186.8	10904.2	10657.3	10481.7	10256.7	10267.6
57.5°	11538.1	11551.8	11754.8	12166.4	12671.3	12986.8	12490.2	12001.8	11645.1	11431.1	11346.0
60°	12893.5	12907.3	13203.6	13705.7	14490.5	14874.6	14260.0	13461.5	13011.5	12685.0	12707.0
62.5°	14520.7	14575.6	14841.7	15533.2	16485.3	16916.1	16101.2	15033.8	14424.6	14018.5	14035.0
65°	16263.0	16356.3	16647.2	17407.2	18285.3	18749.0	17750.2	16518.2	15760.9	15264.3	15316.4
67.5°	17393.5	17475.8	17895.7	18735.3	19830.1	20214.2	18924.6	17489.6	16542.9	15950.2	15840.5
70°	17105.4	17174.0	17733.8	18924.6	20546.3	21031.9	19204.5	17346.9	16232.9	15549.6	15505.7
72.5°	15099.6	14957.0	15774.6	17484.1	19728.6	20543.5	18323.7	15843.2	14441.1	13738.7	13656.3
75°	10007.0	10317.0	11524.3	13538.4	16691.1	17700.8	15640.2	12720.7	10956.4	10371.9	10281.4
77.5°	3344.8	3583.5	4656.4	7674.7	11378.9	12896.3	11395.4	8319.5	5885.6	4741.4	4763.4
80°	886.3	875.3	1133.2	2110.1	4917.1	7468.9	5723.8	2818.0	1542.1	1116.8	1059.1
82.5°	318.3	356.7	458.2	584.4	1303.3	2321.3	1638.1	790.2	579.0	428.0	414.3
85°	139.9	137.2	197.6	233.2	326.5	433.5	384.1	334.8	293.6	194.8	181.1
87.5°	30.2	30.2	46.6	35.7	57.6	57.6	71.3	85.1	87.8	57.6	46.6
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)