

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: P457760

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31806 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

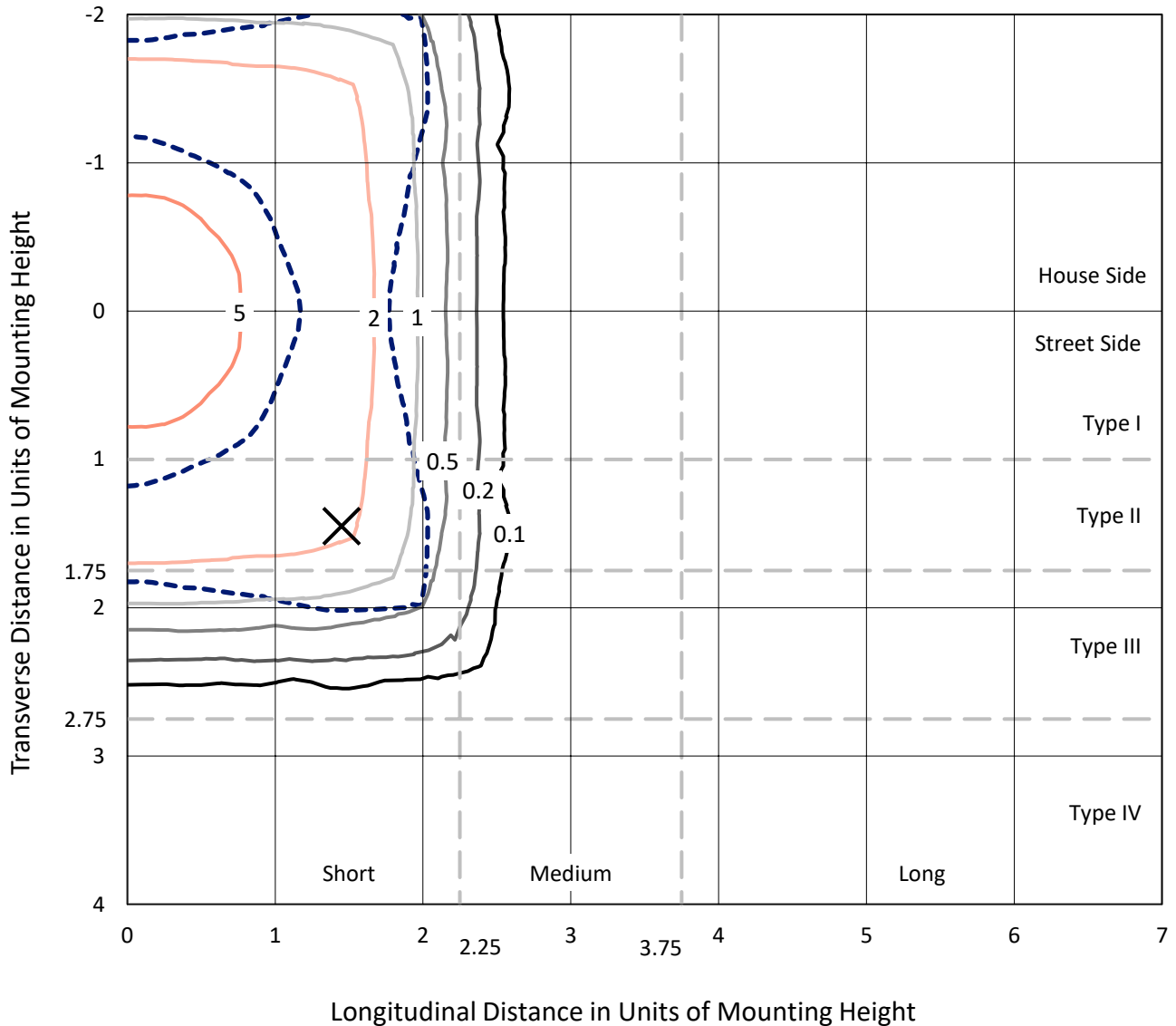
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

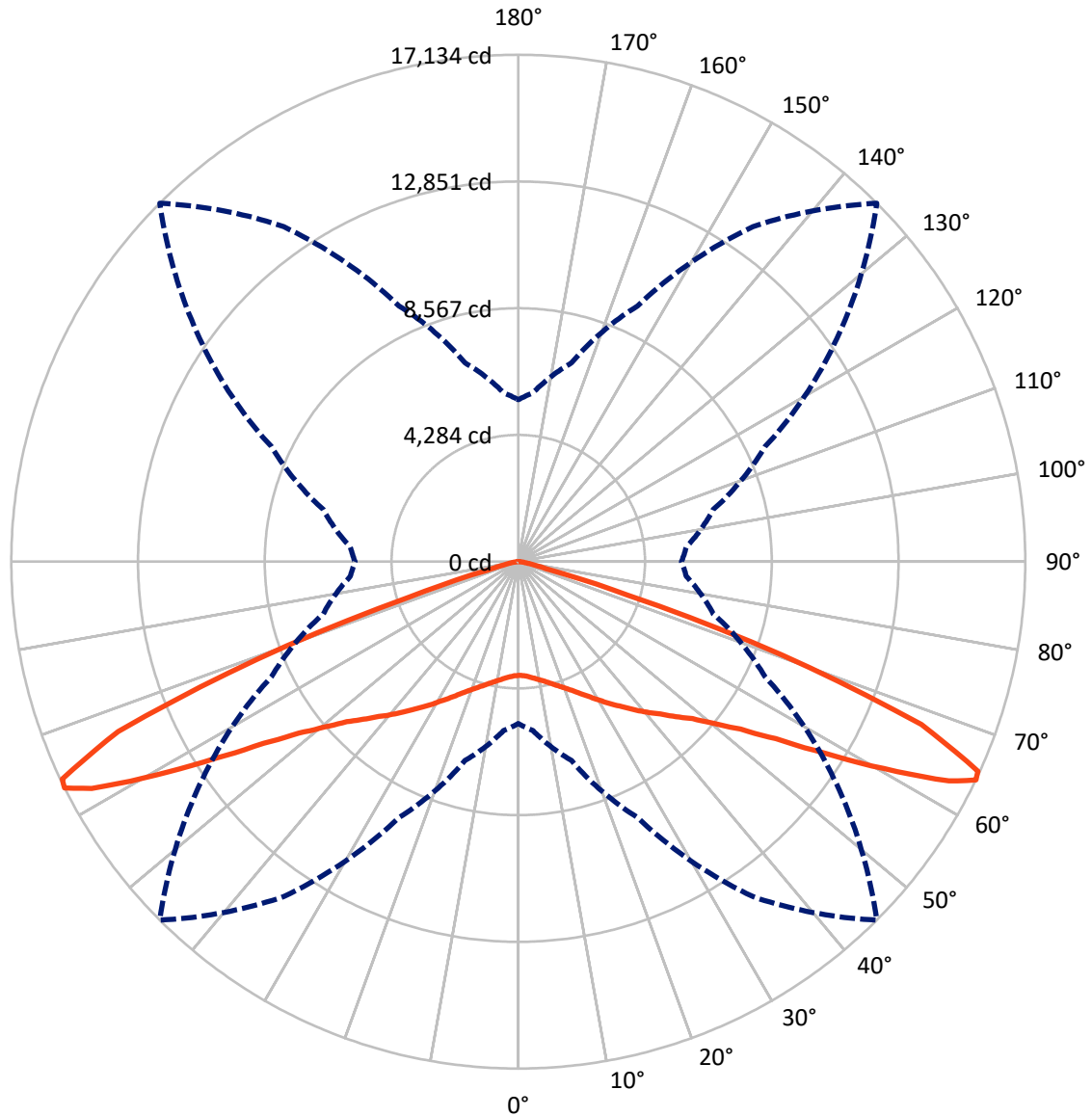
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15903.0	0.0	15903.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15903.0	0.0	15903.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31806.0	0.0	31806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.7	1.2
10°-20°	1218.2	3.8
20°-30°	2302.1	7.2
30°-40°	3812.6	12.0
40°-50°	5952.1	18.7
50°-60°	9201.8	28.9
60°-70°	7934.6	24.9
70°-80°	899.2	2.8
80°-90°	107.7	0.3
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°	31806.0	100.0
0°-180°	31806.0	100.0

Coefficient of Utilization



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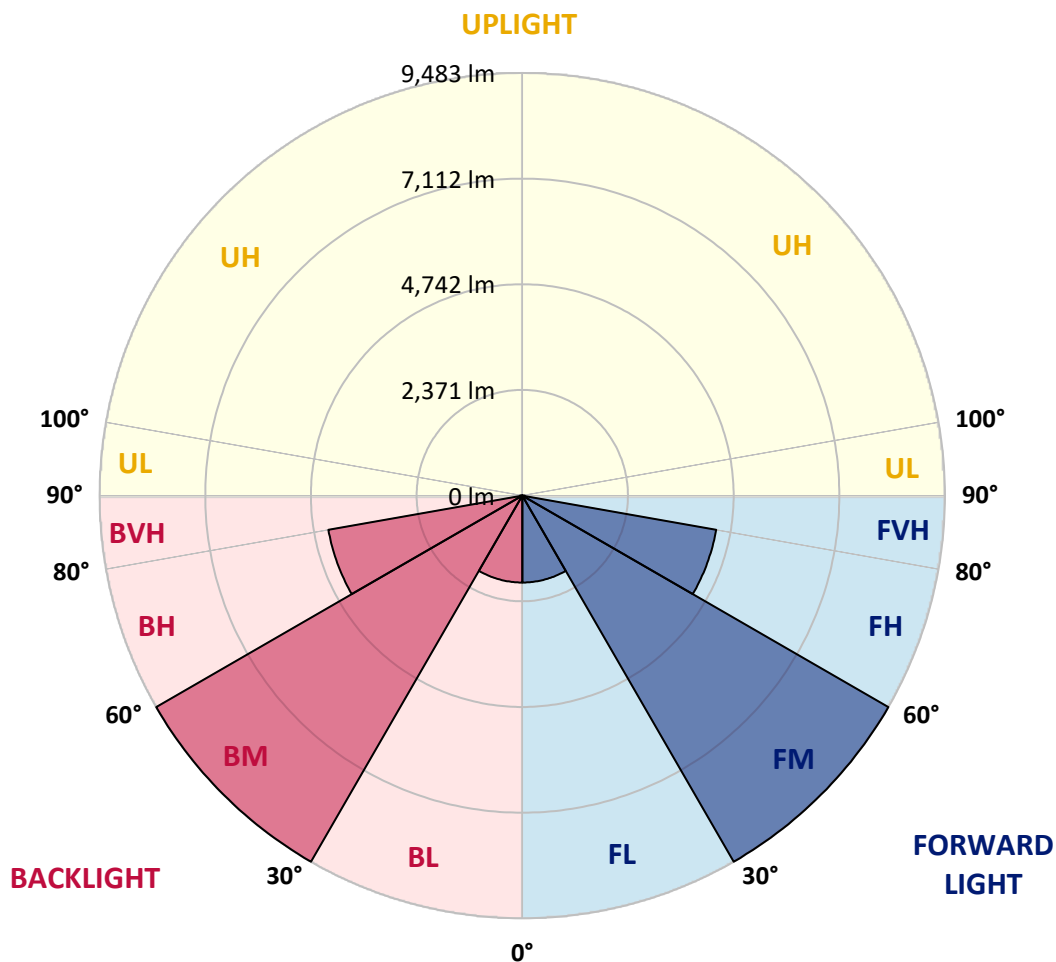
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1949.0	6.1			
FM	(30°-60°)	9483.2	29.8			
FH	(60°-80°)	4416.9	13.9			G2/5000
FVH	(80°-90°)	53.9	0.2			G1/100
BL	(0°-30°)	1949.0	6.1	B3/2500		
BM	(30°-60°)	9483.2	29.8	B5		
BH	(60°-80°)	4416.9	13.9	B4/5000		G2/5000
BVH	(80°-90°)	53.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3
2.5°	3859.5	3867.9	3861.1	3859.5	3857.8	3857.8	3857.8	3859.5	3866.2	3871.2	3867.9
5°	3908.3	3915.0	3911.7	3910.0	3908.3	3910.0	3906.6	3904.9	3910.0	3910.0	3908.3
7.5°	3969.0	3977.4	3974.0	3977.4	3979.1	3980.7	3972.3	3965.6	3963.9	3969.0	3965.6
10°	4051.5	4058.2	4059.9	4061.6	4065.0	4063.3	4053.2	4041.4	4039.7	4038.0	4036.3
12.5°	4144.2	4149.2	4150.9	4157.6	4162.7	4164.4	4152.6	4142.5	4125.6	4129.0	4122.3
15°	4248.6	4258.7	4257.0	4267.1	4280.6	4284.0	4272.2	4255.3	4240.2	4231.8	4226.7
17.5°	4376.6	4383.4	4380.0	4390.1	4407.0	4415.4	4405.3	4383.4	4368.2	4349.7	4339.6
20°	4528.2	4540.0	4543.4	4543.4	4558.6	4567.0	4551.8	4545.1	4521.5	4508.0	4499.6
22.5°	4700.1	4705.1	4715.2	4725.3	4740.5	4737.1	4732.1	4722.0	4700.1	4688.3	4674.8
25°	4893.8	4898.9	4924.1	4946.0	4951.1	4947.7	4941.0	4935.9	4915.7	4888.8	4878.6
27.5°	5119.5	5129.7	5163.3	5183.6	5183.6	5185.2	5171.8	5188.6	5144.8	5112.8	5109.4
30°	5402.6	5409.3	5437.9	5458.2	5448.0	5439.6	5436.3	5453.1	5405.9	5348.7	5335.2
32.5°	5682.2	5705.8	5731.1	5774.9	5739.5	5724.3	5721.0	5732.7	5678.8	5614.8	5596.3
35°	5982.1	5998.9	6046.1	6083.1	6051.1	6015.8	6030.9	6068.0	6004.0	5918.1	5914.7
37.5°	6313.9	6329.1	6389.7	6428.5	6404.9	6344.3	6369.5	6413.3	6349.3	6243.2	6221.3
40°	6659.3	6691.3	6767.1	6807.5	6768.8	6687.9	6735.1	6782.3	6725.0	6602.0	6553.1
42.5°	7046.7	7097.3	7206.8	7227.0	7152.9	7043.4	7125.9	7201.7	7161.3	7019.8	7001.3
45°	7499.9	7530.2	7665.0	7708.8	7606.0	7469.6	7572.3	7710.5	7680.2	7516.7	7481.4
47.5°	8007.0	8035.6	8175.4	8241.1	8111.4	7927.8	8113.1	8293.4	8274.8	8099.6	8082.8
50°	8606.7	8613.4	8807.2	8881.3	8751.6	8593.2	8758.3	8982.4	8908.2	8684.2	8680.8
52.5°	9263.7	9272.1	9516.4	9659.6	9587.1	9408.6	9604.0	9740.4	9551.8	9258.6	9236.7
55°	9833.1	9875.2	10208.8	10589.5	10688.9	10559.2	10618.1	10554.1	10089.2	9678.1	9614.1
57.5°	10065.6	10148.1	10655.2	11366.1	12013.0	12205.0	11750.2	11140.4	10303.1	9721.9	9659.6
60°	9497.9	9587.1	10373.9	11723.2	13374.2	14208.0	12929.4	11239.7	9816.2	8999.2	8901.5
62.5°	7606.0	7631.3	8788.6	10882.6	14167.6	16327.3	13426.4	10392.4	8399.5	7289.3	7250.6
64°	5473.3	5732.7	6959.1	9541.7	13820.6	17134.2	13140.0	9204.7	6822.7	5699.1	5517.1
65°	4093.6	4164.4	5609.8	8148.5	13209.1	17073.6	12584.1	8069.3	5650.2	4361.5	4159.3
67.5°	1546.5	1554.9	2070.4	4061.6	9403.5	14689.8	9604.0	4390.1	2380.4	1721.7	1659.3
70°	641.8	653.6	759.8	1366.2	4041.4	9432.2	4631.0	1583.5	870.9	705.9	695.7
72.5°	470.0	476.7	508.8	606.5	1243.2	3872.9	1522.9	672.2	510.4	456.5	451.5
75°	368.9	372.3	395.9	446.4	579.5	1073.1	633.4	461.6	389.1	350.4	347.0
77.5°	281.3	289.8	306.6	340.3	389.1	508.8	419.5	345.3	299.9	267.9	262.8
80°	193.7	203.8	235.8	249.3	261.1	330.2	286.4	261.1	234.2	195.4	183.6
82.5°	119.6	126.3	158.4	170.1	165.1	185.3	183.6	187.0	166.8	121.3	112.9
85°	62.3	65.7	85.9	89.3	82.5	75.8	94.3	109.5	102.8	69.1	67.4
87.5°	13.5	15.2	18.5	16.8	18.5	18.5	23.6	35.4	37.1	23.6	21.9
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)