

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: P533684

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533684
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-SA9A-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 27451 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

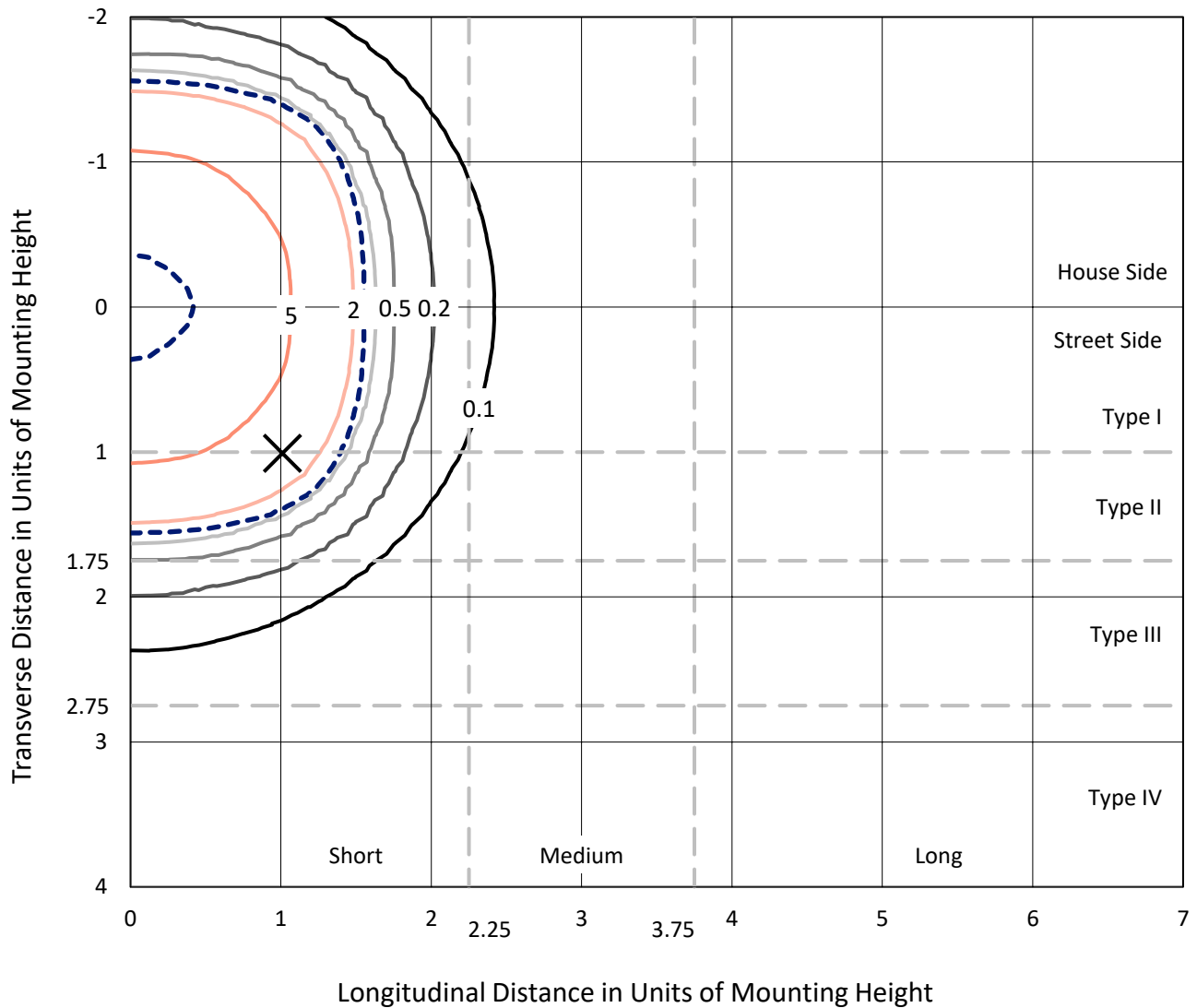
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

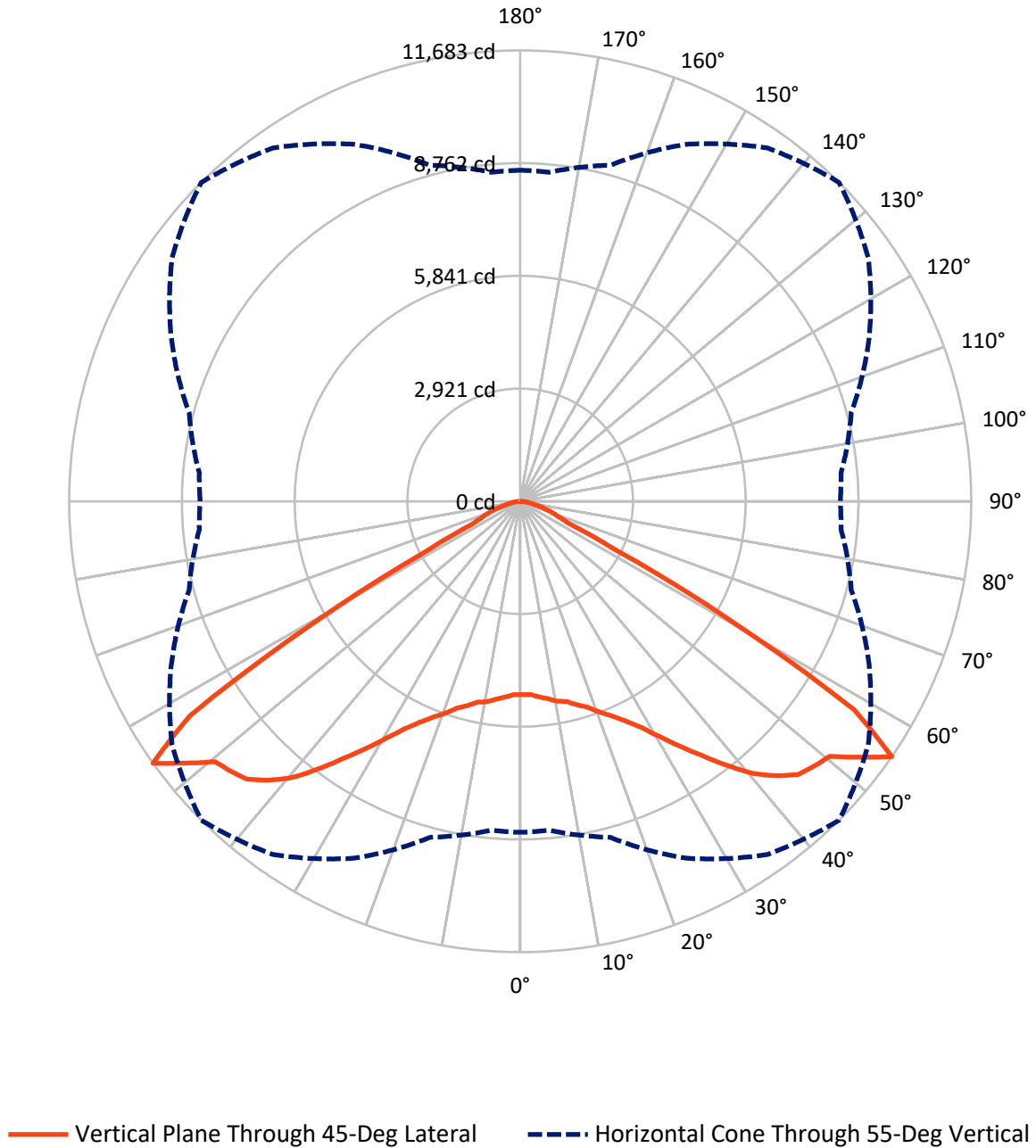
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13725.5	0.0	13725.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13725.5	0.0	13725.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27451.0	0.0	27451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.6	1.8
10°-20°	1551.4	5.7
20°-30°	2892.9	10.5
30°-40°	4843.7	17.6
40°-50°	7537.1	27.5
50°-60°	7825.9	28.5
60°-70°	1659.6	6.0
70°-80°	546.6	2.0
80°-90°	104.1	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°	27451.0	100.0
0°-180°	27451.0	100.0

Coefficient of Utilization



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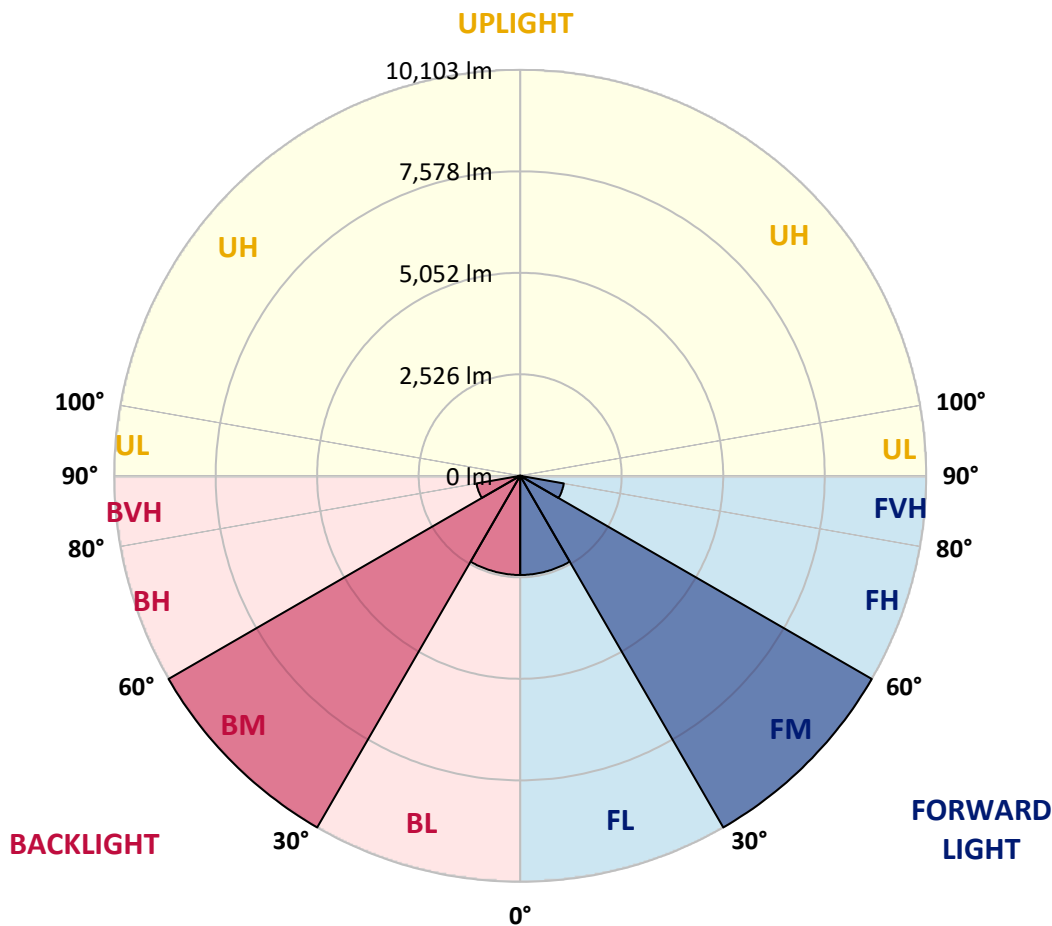
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.0	9.0			
FM (30°-60°)	10103.4	36.8			
FH (60°-80°)	1103.1	4.0			G1/1800
FVH (80°-90°)	52.0	0.2			G1/100
BL (0°-30°)	2467.0	9.0	B3/2500		
BM (30°-60°)	10103.4	36.8	B5		
BH (60°-80°)	1103.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	52.0	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5012.1	5012.1	5012.1	5012.1	5012.1	5012.1	5012.1	5012.1	5012.1	5012.1	5012.1
2.5°	5071.9	5048.6	5008.8	5038.7	5061.9	5012.1	5032.0	5042.0	5035.4	5008.8	5018.8
5°	5144.8	5131.6	5098.4	5121.6	5091.8	5091.8	5071.9	5045.3	5085.1	5078.5	5095.1
7.5°	5144.8	5128.2	5194.6	5151.5	5164.7	5164.7	5131.6	5105.0	5124.9	5095.1	5078.5
10°	5247.7	5270.9	5241.0	5251.0	5244.3	5267.6	5217.8	5201.2	5184.6	5174.7	5154.8
12.5°	5370.4	5353.8	5363.8	5357.1	5380.3	5320.6	5290.8	5254.3	5284.1	5241.0	5270.9
15°	5469.9	5460.0	5469.9	5496.4	5473.2	5469.9	5416.8	5380.3	5333.9	5343.9	5297.4
17.5°	5605.9	5596.0	5599.3	5622.5	5619.2	5602.6	5562.8	5493.1	5476.5	5450.0	5420.1
20°	5808.2	5791.7	5785.0	5795.0	5811.6	5824.8	5745.2	5718.7	5662.3	5619.2	5569.4
22.5°	5980.7	5974.1	6000.6	5957.5	5994.0	6033.8	5957.5	5944.2	5804.9	5781.7	5728.6
25°	6219.6	6209.6	6193.0	6256.1	6299.2	6295.9	6222.9	6149.9	6043.8	6017.2	6017.2
27.5°	6471.7	6415.3	6501.5	6518.1	6594.4	6617.6	6554.6	6448.4	6348.9	6292.5	6305.8
30°	6786.8	6733.7	6753.6	6873.0	6972.6	7058.8	6899.6	6743.7	6604.4	6504.8	6488.3
32.5°	7101.9	7048.8	7108.6	7224.7	7423.7	7553.0	7397.1	7125.1	6962.6	6816.6	6846.5
35°	7357.3	7397.1	7493.3	7669.1	7874.8	8083.8	7835.0	7626.0	7393.8	7231.3	7254.5
37.5°	7768.7	7891.4	7967.7	8170.0	8461.9	8677.5	8418.8	8146.8	7898.0	7685.7	7612.8
40°	8306.0	8389.0	8475.2	8714.0	9059.0	9274.6	9029.2	8674.2	8428.8	8209.8	8199.9
42.5°	8896.5	8976.1	9065.6	9357.5	9563.2	9725.7	9500.2	9311.1	9039.1	8866.6	8856.7
45°	9583.1	9526.7	9626.2	9818.6	9991.1	10097.3	9951.3	9858.4	9662.7	9503.5	9486.9
47.5°	10040.9	9991.1	10170.2	10342.7	10369.3	10253.2	10283.0	10369.3	10163.6	9901.6	9984.5
50°	10306.2	10306.2	10425.7	10584.9	10535.1	10385.9	10621.4	10628.0	10422.3	10190.1	10190.1
52.5°	9845.2	9948.0	10286.3	10807.1	10973.0	11016.1	10963.0	10737.5	10200.1	9725.7	9702.5
55°	8578.0	8554.8	9012.6	10206.7	11172.0	11682.8	11006.1	9967.9	8876.6	8342.5	8289.4
57.5°	5579.4	5605.9	6289.2	7506.6	9248.1	10200.1	9059.0	7599.5	6289.2	5552.8	5622.5
60°	2511.0	2600.6	3015.2	3924.1	5420.1	6196.3	5433.4	4123.2	3164.5	2746.6	2783.0
62.5°	1442.9	1459.5	1476.1	1751.4	2308.7	2730.0	2398.3	1850.9	1632.0	1559.0	1559.0
65°	1217.4	1207.4	1210.7	1234.0	1293.7	1379.9	1343.4	1293.7	1300.3	1293.7	1283.7
67.5°	1034.9	1048.2	1038.3	1054.8	1058.2	1071.4	1094.6	1114.5	1117.9	1124.5	1117.9
70°	849.2	852.5	859.1	872.4	875.7	885.7	918.8	935.4	945.4	945.4	958.6
72.5°	650.2	646.8	653.5	666.7	683.3	686.6	716.5	739.7	753.0	736.4	739.7
75°	427.9	431.2	441.2	451.1	474.3	497.6	507.5	530.7	534.1	540.7	524.1
77.5°	255.4	262.1	272.0	291.9	311.8	331.7	354.9	371.5	378.1	371.5	351.6
80°	165.9	165.9	179.1	195.7	218.9	235.5	248.8	262.1	272.0	262.1	255.4
82.5°	102.8	102.8	119.4	139.3	155.9	165.9	185.8	202.3	212.3	205.7	195.7
85°	53.1	56.4	69.7	86.2	99.5	106.1	102.8	92.9	82.9	79.6	73.0
87.5°	16.6	16.6	19.9	19.9	16.6	16.6	19.9	16.6	19.9	19.9	19.9
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)