

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: P532988

Luminaire Tested: **GALN-SA8B-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29597 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

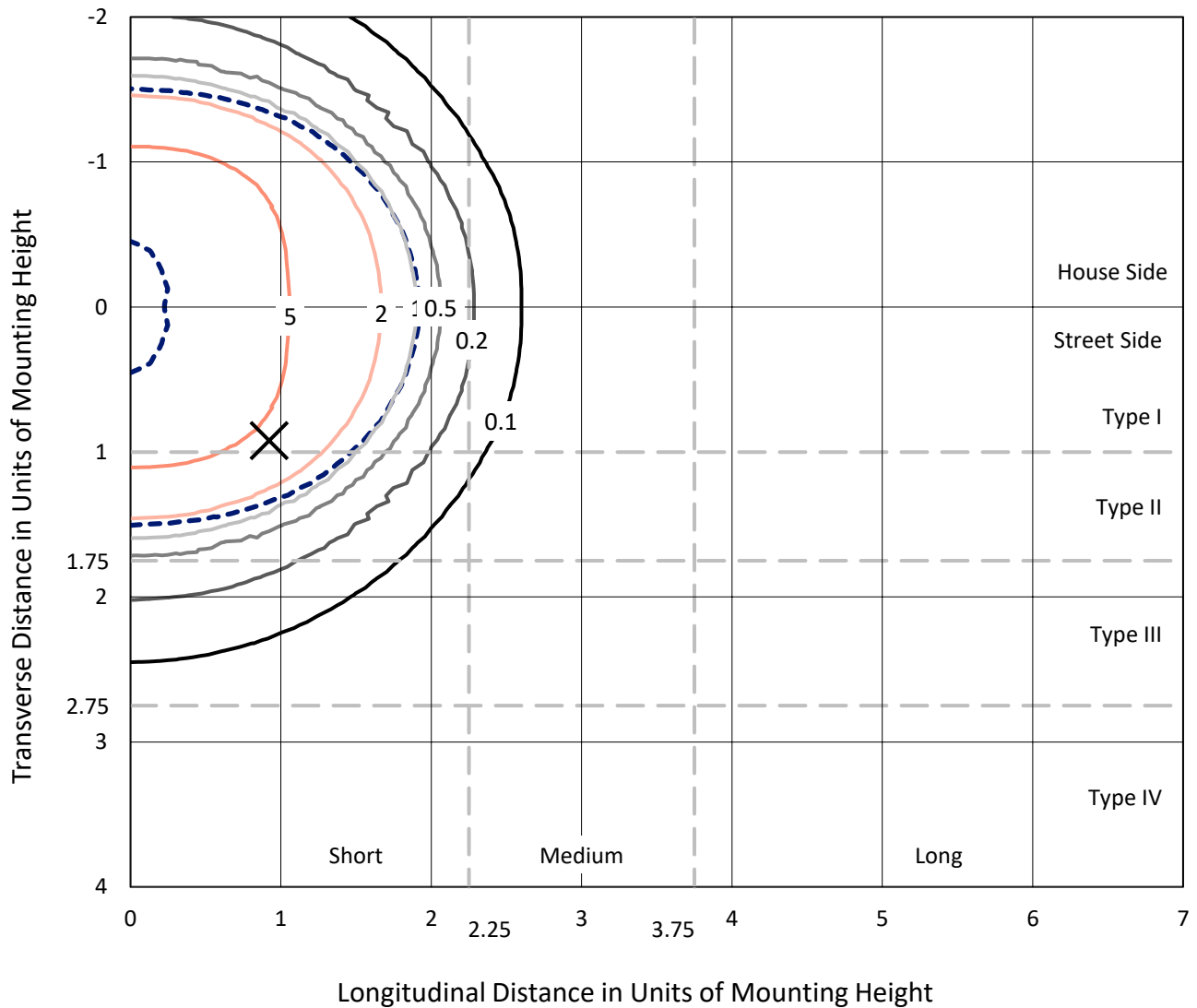
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

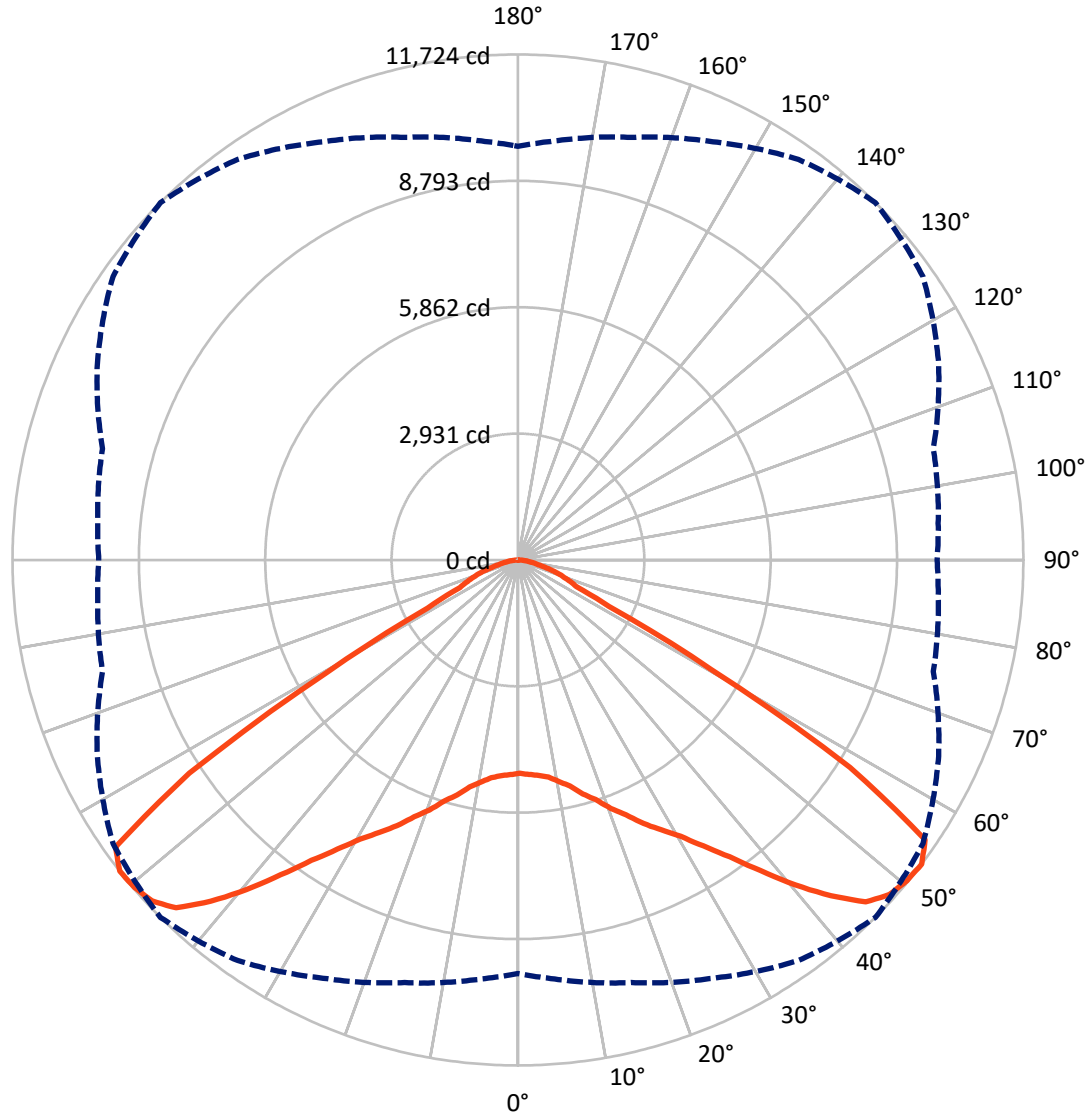
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14798.5	0.0	14798.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14798.5	0.0	14798.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29597.0	0.0	29597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.1	1.6
10°-20°	1597.2	5.4
20°-30°	3040.9	10.3
30°-40°	5221.4	17.6
40°-50°	8025.5	27.1
50°-60°	8149.7	27.5
60°-70°	2271.2	7.7
70°-80°	670.0	2.3
80°-90°	135.0	0.5
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°	29597.0	100.0
0°-180°	29597.0	100.0

Coefficient of Utilization



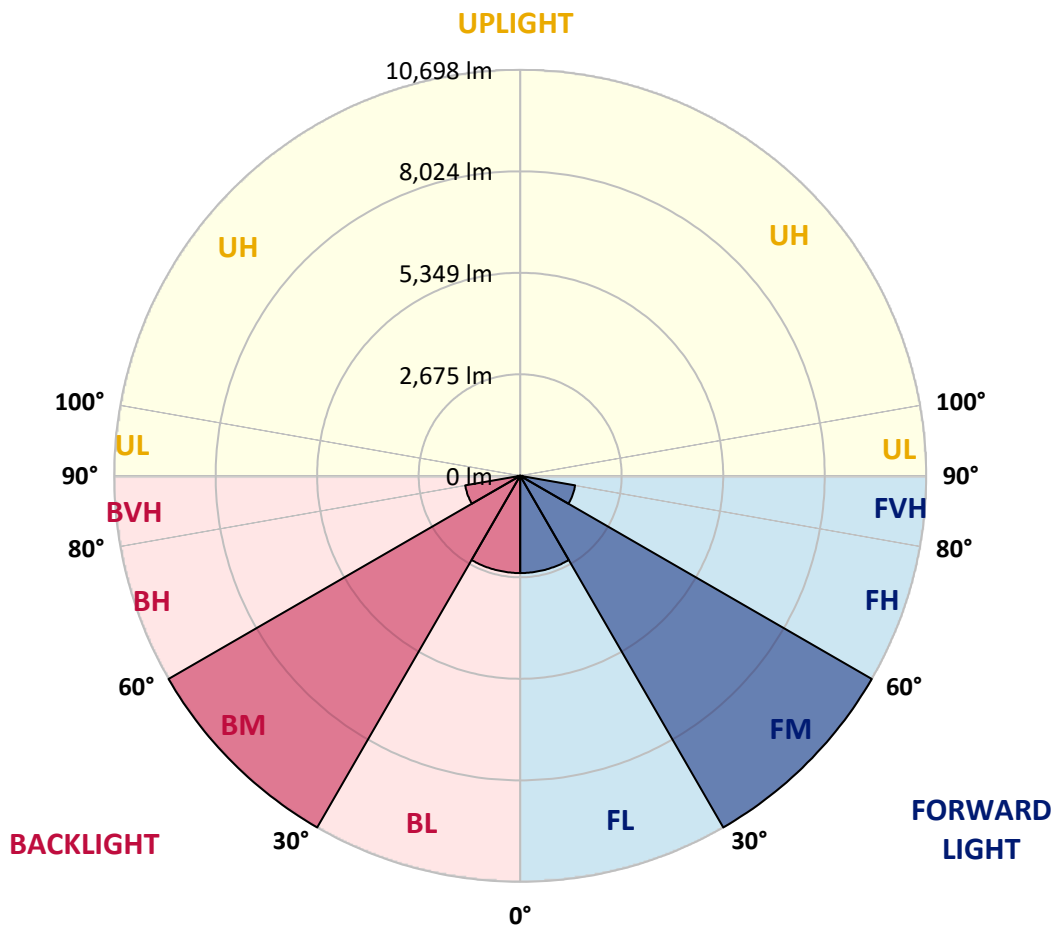
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2562.1	8.7			
FM (30°-60°)	10698.3	36.1			
FH (60°-80°)	1470.6	5.0			G1/1800
FVH (80°-90°)	67.5	0.2			G1/100
BL (0°-30°)	2562.1	8.7	B4/5000		
BM (30°-60°)	10698.3	36.1	B5		
BH (60°-80°)	1470.6	5.0	B3/2500		G1/1800
BVH (80°-90°)	67.5	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°	4947.5	4947.5	4947.5	4947.5	4947.5	4947.5	4947.5	4947.5	4947.5	4947.5	4947.5
2.5°	4958.5	4907.1	4925.5	4936.5	4984.3	4980.6	4969.6	4984.3	4999.0	5002.6	4995.3
5°	4954.9	4918.1	4932.8	4943.9	4991.6	5017.3	5010.0	5072.4	5116.5	5105.5	5160.6
7.5°	4925.5	4947.5	4929.2	4984.3	5024.7	5087.1	5153.2	5212.0	5267.1	5329.5	5340.5
10°	4991.6	4991.6	5024.7	5068.7	5175.3	5223.0	5318.5	5403.0	5509.5	5583.0	5553.6
12.5°	5061.4	5072.4	5072.4	5186.3	5274.4	5380.9	5469.1	5583.0	5733.6	5821.7	5865.8
15°	5131.2	5138.5	5175.3	5329.5	5461.7	5630.7	5711.5	5814.4	5898.8	6064.1	6067.8
17.5°	5193.6	5234.0	5344.2	5516.8	5682.1	5843.7	5972.3	6078.8	6152.3	6218.4	6203.7
20°	5428.7	5458.1	5571.9	5744.6	5990.7	6148.6	6192.7	6211.0	6258.8	6391.0	6350.6
22.5°	5656.4	5667.4	5774.0	6038.4	6211.0	6420.4	6468.1	6457.1	6475.5	6508.6	6567.3
25°	5891.5	5909.9	6056.8	6280.8	6523.2	6773.0	6813.4	6728.9	6703.2	6740.0	6743.6
27.5°	6192.7	6196.3	6383.7	6578.3	6853.8	7088.9	7151.3	7085.2	6964.0	6993.4	7041.1
30°	6574.7	6549.0	6736.3	7015.4	7305.6	7437.8	7544.3	7511.3	7379.1	7353.3	7312.9
32.5°	7015.4	7022.8	7191.7	7496.6	7687.6	7908.0	8021.8	7966.7	7882.3	7838.2	7863.9
35°	7636.2	7669.2	7783.1	8036.5	8345.1	8455.2	8635.2	8517.7	8297.3	8352.4	8400.1
37.5°	8146.7	8242.2	8455.2	8756.4	8940.1	9142.1	9208.2	9050.3	8888.7	8822.5	8980.5
40°	8929.1	8899.7	9134.7	9435.9	9707.7	9909.7	9825.3	9667.3	9267.0	9270.6	9314.7
42.5°	9601.2	9615.9	9795.9	10155.8	10526.8	10651.7	10383.6	9997.9	9553.5	9505.7	9601.2
45°	10166.9	10225.6	10328.5	10809.6	11173.3	11309.2	10813.3	10357.9	9762.8	9564.5	9722.4
47.5°	10368.9	10464.4	10688.4	11129.2	11489.1	11599.3	11202.6	10548.9	9957.5	9634.3	9718.8
50°	10398.3	10365.2	10732.5	11136.5	11452.4	11691.2	11342.2	10688.4	9909.7	9740.8	9715.1
52.5°	9593.9	9755.5	10148.5	10703.1	11342.2	11724.2	11467.1	10765.6	9975.9	9784.9	9722.4
55°	7764.7	7573.7	8290.0	9222.9	10398.3	11459.8	11423.0	10806.0	10016.3	9858.3	9773.8
57.5°	4334.1	4389.2	4793.3	5807.0	7324.0	9087.0	10155.8	10379.9	9997.9	9906.1	9950.2
60°	2005.5	2023.8	2196.5	2670.3	3610.6	5153.2	6560.0	7988.8	8646.2	8778.5	8778.5
62.5°	1494.9	1487.6	1531.6	1616.1	1814.5	2369.1	3162.5	4297.4	5201.0	5832.7	5998.0
65°	1351.7	1348.0	1370.0	1399.4	1414.1	1491.2	1667.5	2016.5	2310.3	2479.3	2449.9
67.5°	1182.7	1179.0	1186.4	1204.7	1230.5	1270.9	1314.9	1388.4	1491.2	1483.9	1465.5
70°	955.0	955.0	966.0	980.7	1010.1	1057.8	1109.2	1160.7	1248.8	1267.2	1263.5
72.5°	705.2	694.2	716.2	745.6	775.0	833.8	888.9	936.6	999.1	1017.4	1010.1
75°	448.1	455.5	470.1	503.2	554.6	595.0	653.8	694.2	734.6	749.3	753.0
77.5°	249.8	257.1	282.8	323.2	374.6	418.7	470.1	503.2	528.9	532.6	536.3
80°	150.6	154.3	180.0	216.7	260.8	308.5	348.9	382.0	404.0	393.0	389.3
82.5°	91.8	95.5	117.5	150.6	187.3	224.1	268.1	297.5	319.6	304.9	290.2
85°	47.7	51.4	69.8	91.8	121.2	139.6	139.6	124.9	121.2	113.9	110.2
87.5°	14.7	14.7	18.4	22.0	18.4	22.0	25.7	29.4	29.4	33.1	29.4
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)