

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: P530640

Luminaire Tested: **GALN-SA5D-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25137 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

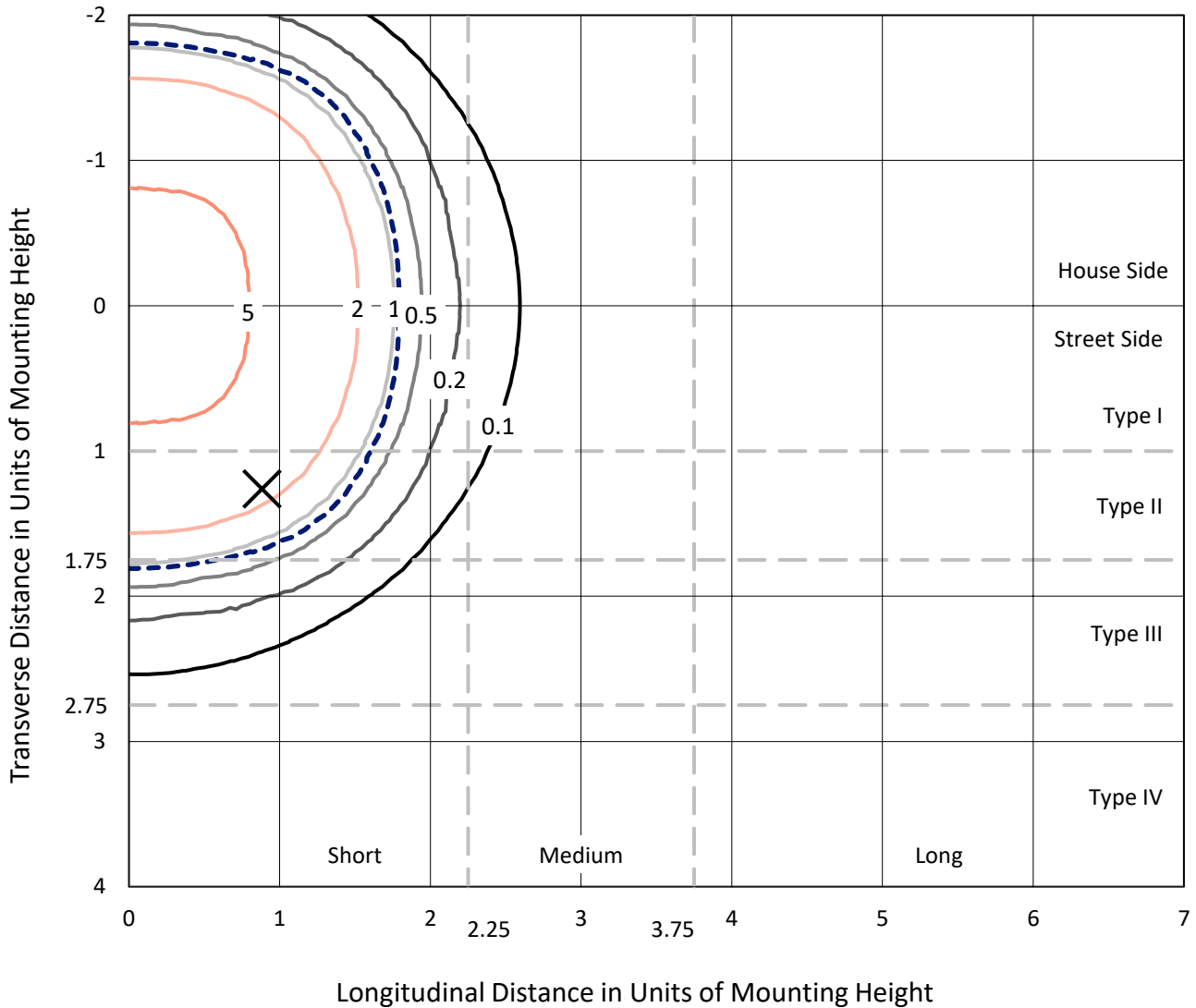
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

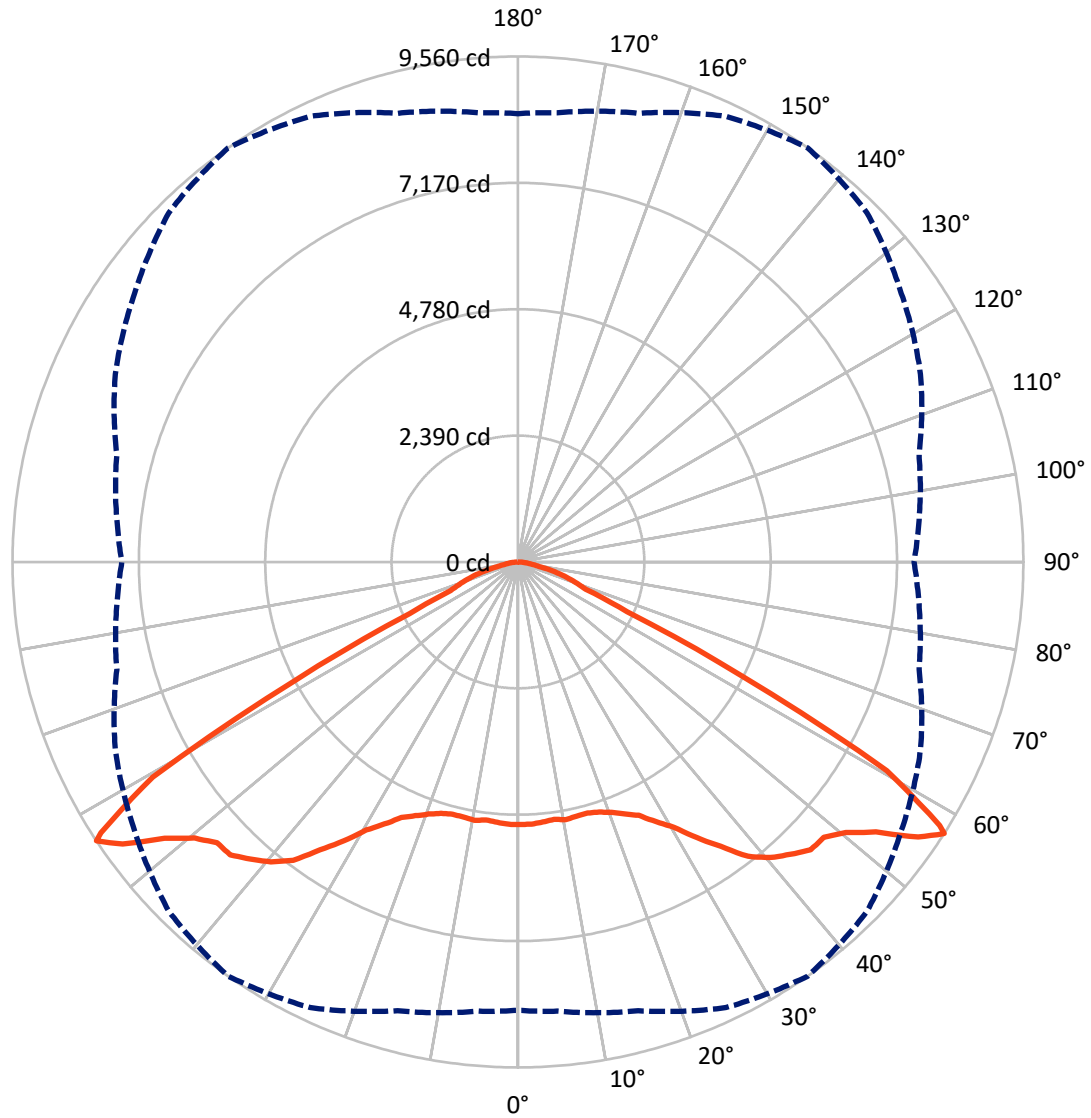
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12568.5	0.0	12568.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12568.5	0.0	12568.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25137.0	0.0	25137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	1.9
10°-20°	1393.9	5.5
20°-30°	2434.4	9.7
30°-40°	3988.9	15.9
40°-50°	5848.7	23.3
50°-60°	7366.9	29.3
60°-70°	2770.6	11.0
70°-80°	736.7	2.9
80°-90°	126.3	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°	25137.0	100.0
0°-180°	25137.0	100.0

Coefficient of Utilization



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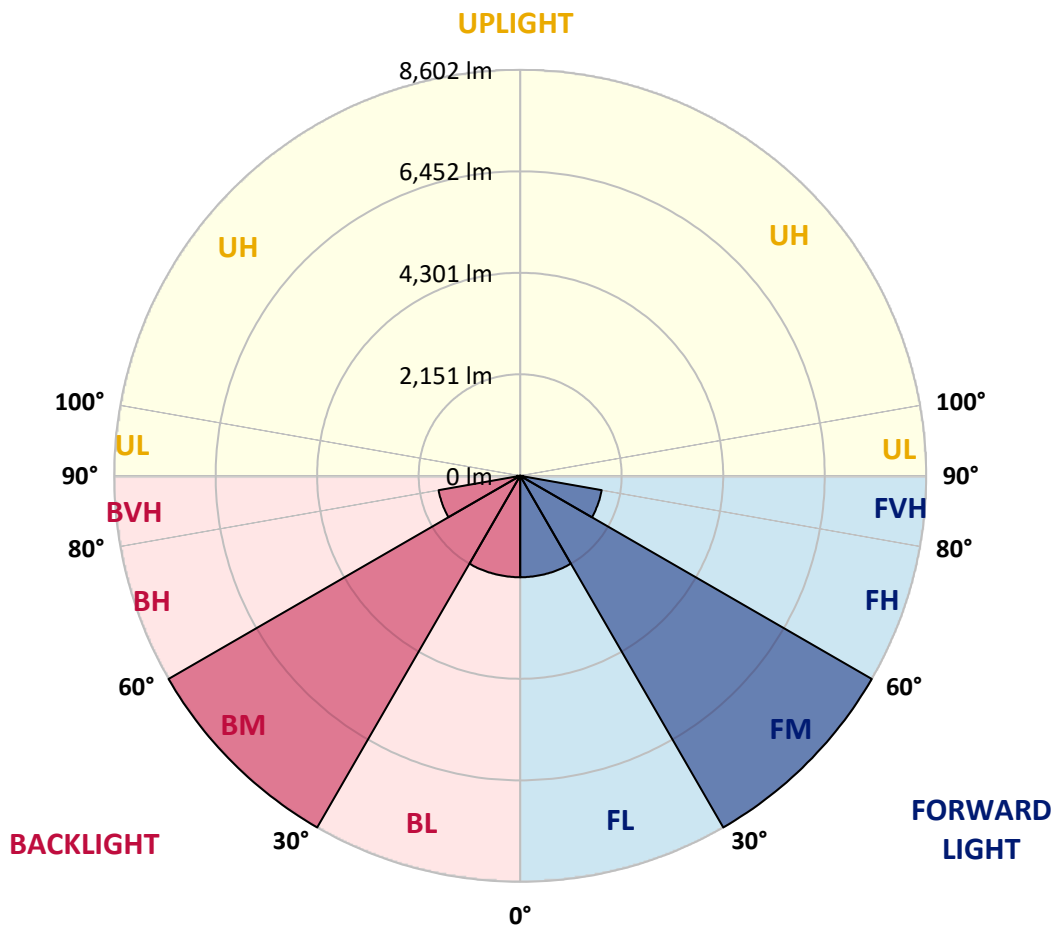
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.5	8.6			
FM (30°-60°)	8602.2	34.2			
FH (60°-80°)	1753.7	7.0			G1/1800
FVH (80°-90°)	63.2	0.3			G1/100
BL (0°-30°)	2149.5	8.6	B3/2500		
BM (30°-60°)	8602.2	34.2	B5		
BH (60°-80°)	1753.7	7.0	B3/2500		G1/1800
BVH (80°-90°)	63.2	0.3			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°	4964.4	4964.4	4964.4	4964.4	4964.4	4964.4	4964.4	4964.4	4964.4	4964.4	4964.4
2.5°	4939.6	4989.1	4967.5	4955.1	4964.4	4948.9	4924.1	4952.0	4945.8	4921.0	4911.7
5°	4927.2	4964.4	4939.6	4964.4	4939.6	4983.0	4970.6	4924.1	4979.9	4927.2	4945.8
7.5°	4917.9	4930.3	4936.5	4924.1	4914.8	4967.5	4939.6	4917.9	4886.9	4877.7	4893.1
10°	4896.2	4927.2	4880.8	4942.7	4955.1	4917.9	4917.9	4877.7	4852.9	4837.4	4890.0
12.5°	4952.0	4899.3	4893.1	4924.1	4933.4	4948.9	4905.5	4883.9	4837.4	4843.6	4834.3
15°	4886.9	4908.6	4911.7	4917.9	4927.2	4964.4	4924.1	4877.7	4859.1	4794.0	4800.2
17.5°	4911.7	4890.0	4911.7	4983.0	4970.6	4998.4	4955.1	4883.9	4840.5	4803.3	4852.9
20°	4955.1	4945.8	4955.1	5041.8	5057.3	5082.1	5044.9	4979.9	4896.2	4852.9	4877.7
22.5°	5001.5	4995.3	5001.5	5085.2	5175.0	5205.9	5168.8	5017.0	4973.7	4893.1	4865.3
25°	5085.2	5091.3	5156.4	5249.3	5308.1	5367.0	5298.8	5190.4	5051.1	5001.5	4942.7
27.5°	5271.0	5286.5	5323.6	5459.9	5562.1	5614.7	5518.7	5370.1	5283.4	5181.2	5165.7
30°	5500.1	5500.1	5565.2	5682.9	5822.2	5902.7	5785.1	5608.5	5503.2	5447.5	5413.4
32.5°	5803.6	5769.6	5794.3	6001.8	6218.6	6286.8	6128.8	5912.0	5744.8	5670.5	5645.7
35°	6063.8	6085.5	6141.2	6364.2	6605.7	6763.7	6515.9	6234.1	6063.8	5995.6	5983.3
37.5°	6401.3	6438.5	6466.4	6773.0	7064.1	7122.9	6884.5	6658.4	6450.9	6395.2	6364.2
40°	6878.3	6853.5	6862.8	7088.9	7352.1	7389.3	7153.9	6992.9	6822.5	6788.5	6788.5
42.5°	7271.6	7243.7	7274.7	7358.3	7559.6	7531.7	7401.7	7284.0	7212.7	7175.6	7212.7
45°	7510.0	7503.9	7559.6	7621.5	7764.0	7671.1	7568.9	7587.5	7519.3	7457.4	7454.3
47.5°	7770.2	7729.9	7798.1	7891.0	7782.6	7739.2	7733.0	7773.3	7751.6	7643.2	7609.1
50°	7897.2	7881.7	7990.1	8098.5	8039.6	7940.5	7962.2	8027.2	7748.5	7603.0	7519.3
52.5°	8237.8	8240.9	8448.4	8507.3	8482.5	8336.9	8383.4	8206.9	7878.6	7674.2	7683.5
55°	8773.6	8751.9	8984.2	9157.6	9185.5	8999.7	8776.7	8528.9	8117.0	7909.5	7847.6
57°	8479.4	8528.9	8786.0	9300.1	9560.2	9340.3	8854.1	8402.0	7853.8	7603.0	7491.5
57.5°	8086.1	8166.6	8612.6	9129.7	9402.3	9383.7	8758.1	8166.6	7677.3	7287.1	7296.4
60°	5924.4	5939.9	6342.5	7163.2	8014.8	8033.4	7271.6	6488.1	5943.0	5518.7	5577.6
62.5°	3124.8	3196.0	3357.1	4016.7	4753.8	4933.4	4472.0	4069.4	3598.6	3276.5	3307.5
65°	1653.8	1644.5	1721.9	1907.7	2270.0	2363.0	2301.0	1982.0	1817.9	1765.2	1768.3
67.5°	1344.1	1359.6	1350.3	1359.6	1384.3	1424.6	1415.3	1427.7	1437.0	1452.5	1449.4
70°	1139.7	1139.7	1145.9	1149.0	1149.0	1167.5	1189.2	1229.5	1232.6	1248.1	1254.3
72.5°	898.1	891.9	901.2	922.9	926.0	941.5	972.4	997.2	1006.5	1006.5	987.9
75°	610.1	616.3	628.7	647.3	665.8	693.7	718.5	734.0	740.2	730.9	721.6
77.5°	343.8	350.0	359.2	387.1	408.8	433.6	461.4	476.9	492.4	495.5	476.9
80°	204.4	204.4	219.9	241.6	266.3	291.1	315.9	334.5	340.7	340.7	331.4
82.5°	123.9	127.0	139.4	161.0	182.7	198.2	219.9	235.4	247.8	244.7	238.5
85°	65.0	65.0	77.4	96.0	111.5	127.0	127.0	117.7	111.5	96.0	89.8
87.5°	21.7	18.6	24.8	24.8	21.7	24.8	24.8	27.9	27.9	27.9	27.9
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)