

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: P530644

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24161 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

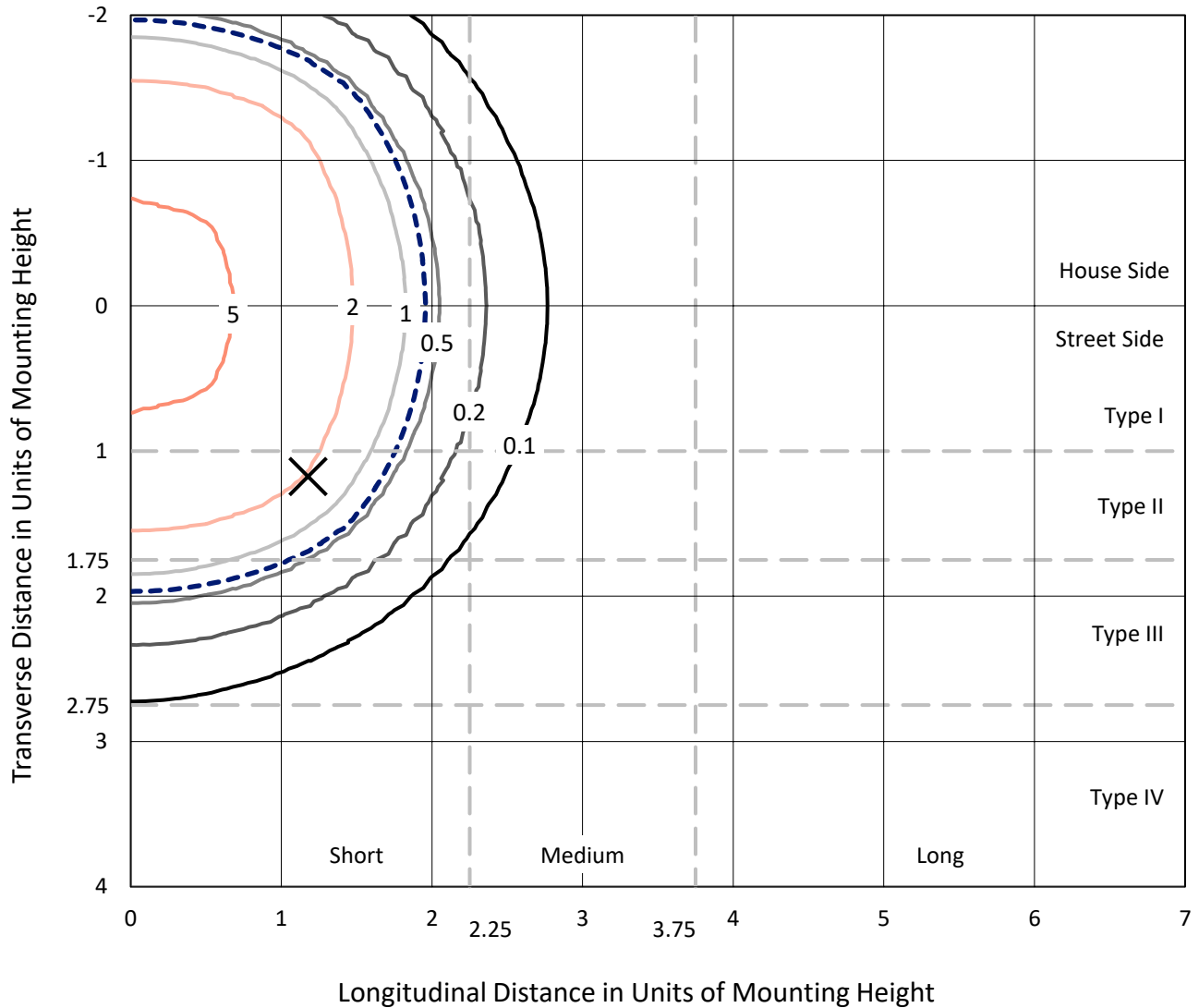
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

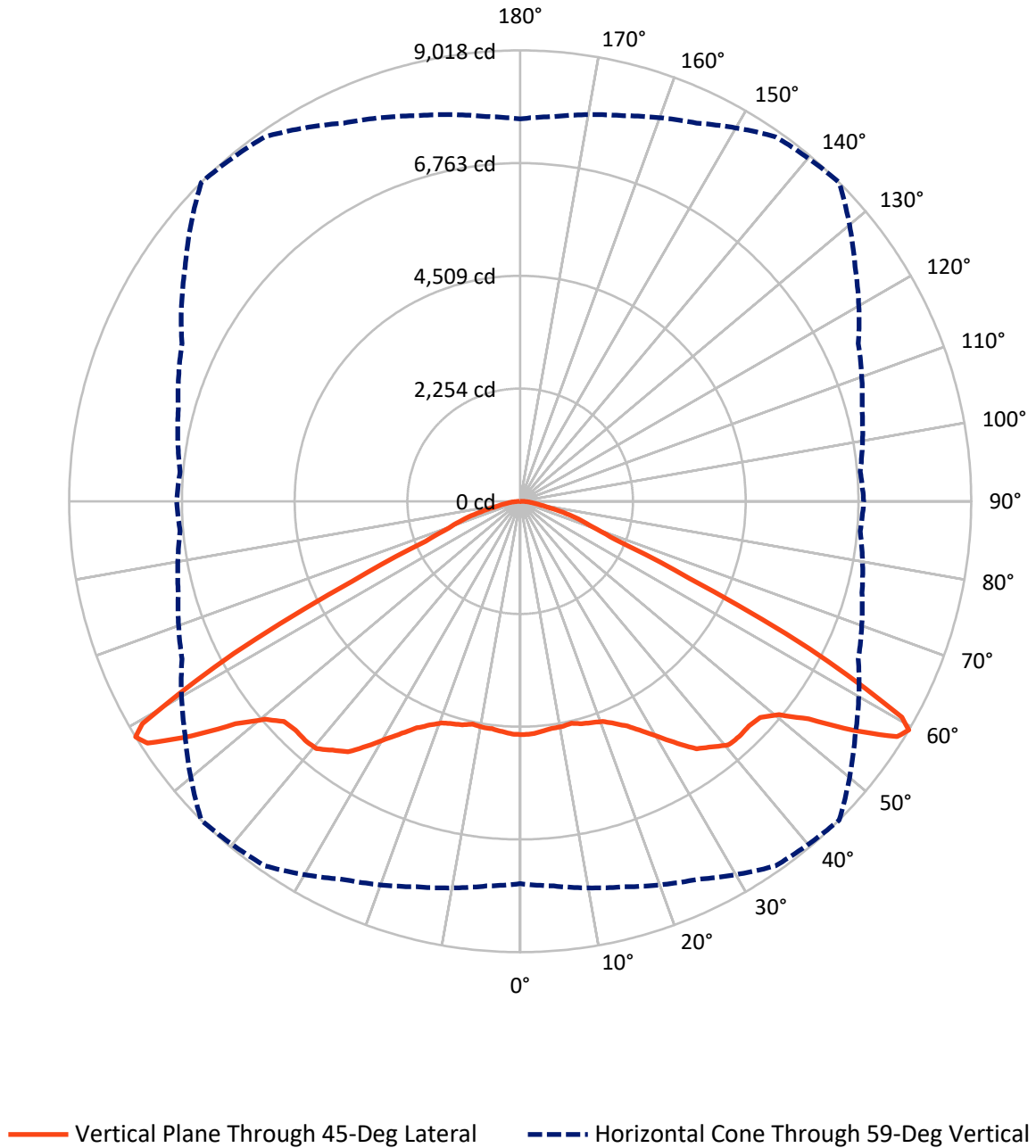
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	12080.5	0.0	12080.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12080.5	0.0	12080.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24161.0	0.0	24161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.9	1.8
10°-20°	1308.3	5.4
20°-30°	2284.4	9.5
30°-40°	3648.5	15.1
40°-50°	4969.9	20.6
50°-60°	6720.7	27.8
60°-70°	3685.6	15.3
70°-80°	942.9	3.9
80°-90°	160.8	0.7
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°	24161.0	100.0
0°-180°	24161.0	100.0

Coefficient of Utilization



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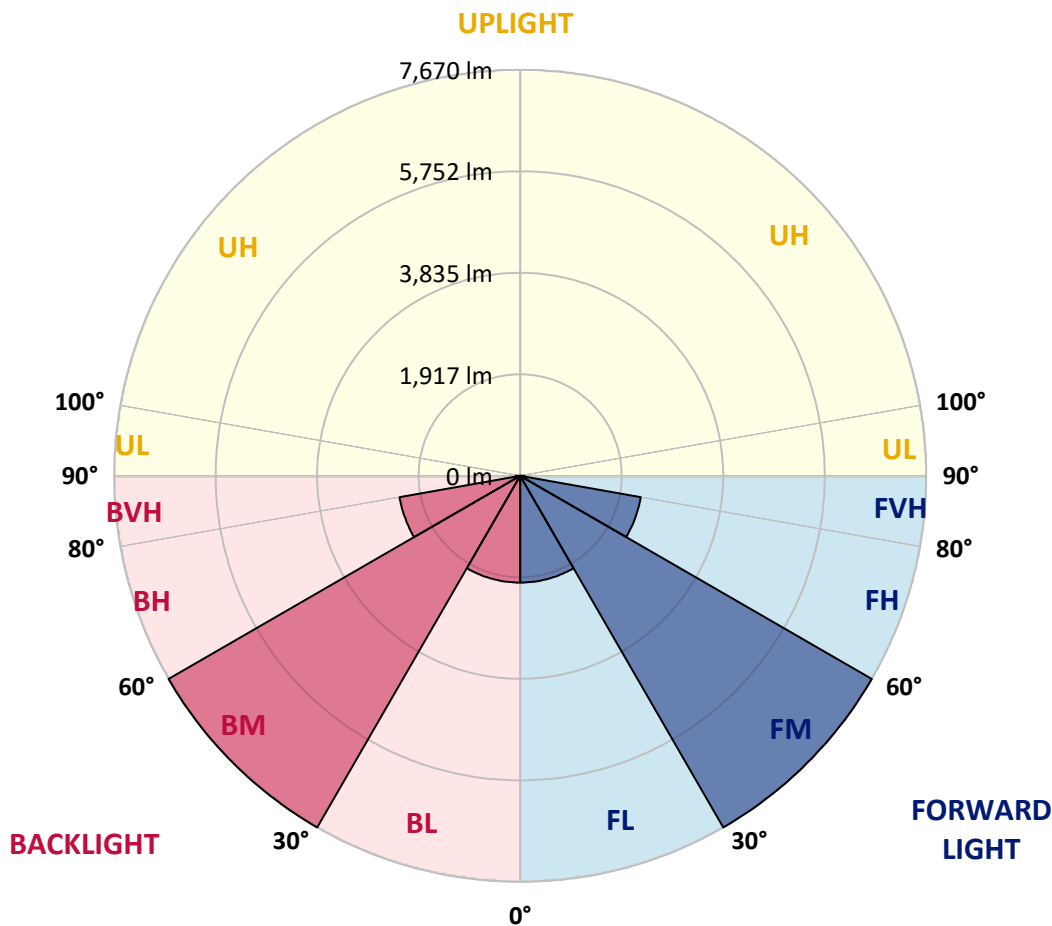
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.3	8.3			
FM (30°-60°)	7669.5	31.7			
FH (60°-80°)	2314.3	9.6			G2/5000
FVH (80°-90°)	80.4	0.3			G1/100
BL (0°-30°)	2016.3	8.3	B3/2500		
BM (30°-60°)	7669.5	31.7	B4/8500		
BH (60°-80°)	2314.3	9.6	B3/2500		G2/5000
BVH (80°-90°)	80.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
2.5°	4638.9	4672.9	4648.2	4669.8	4666.7	4657.5	4642.0	4632.7	4620.3	4638.9	4607.9
5°	4620.3	4648.2	4676.0	4638.9	4638.9	4620.3	4611.0	4592.4	4592.4	4589.3	4586.2
7.5°	4651.3	4623.4	4611.0	4617.2	4623.4	4583.1	4611.0	4573.8	4542.9	4564.6	4589.3
10°	4623.4	4635.8	4589.3	4611.0	4576.9	4583.1	4564.6	4589.3	4555.3	4555.3	4555.3
12.5°	4651.3	4617.2	4632.7	4617.2	4607.9	4555.3	4580.0	4552.2	4549.1	4580.0	4552.2
15°	4707.0	4651.3	4638.9	4607.9	4617.2	4617.2	4592.4	4595.5	4561.5	4580.0	4586.2
17.5°	4688.4	4657.5	4648.2	4611.0	4642.0	4651.3	4604.8	4573.8	4595.5	4592.4	4589.3
20°	4703.9	4716.3	4707.0	4713.2	4725.6	4700.8	4657.5	4614.1	4586.2	4626.5	4623.4
22.5°	4803.0	4790.6	4784.4	4778.2	4799.9	4824.7	4765.8	4697.7	4697.7	4725.6	4738.0
25°	4883.5	4880.4	4877.3	4905.2	4979.5	4979.5	4905.2	4818.5	4796.8	4815.4	4799.9
27.5°	5001.2	5035.3	5022.9	5072.4	5180.8	5205.6	5106.5	5004.3	4945.5	4923.8	4951.6
30°	5270.6	5230.4	5239.6	5292.3	5388.3	5468.8	5317.1	5208.7	5128.2	5125.1	5137.5
32.5°	5450.2	5481.2	5509.1	5558.6	5710.3	5772.3	5589.6	5413.1	5363.5	5335.6	5344.9
35°	5809.4	5781.6	5775.4	5824.9	5976.7	6078.9	5849.7	5694.9	5629.8	5691.8	5691.8
37.5°	6150.1	6072.7	6013.8	6078.9	6218.2	6230.6	6035.5	5951.9	5917.8	5989.0	5986.0
40°	6311.1	6304.9	6168.7	6205.8	6391.6	6410.2	6227.5	6128.4	6122.2	6215.1	6308.0
42.5°	6478.3	6419.5	6283.2	6308.0	6422.6	6428.8	6255.4	6227.5	6295.6	6385.4	6391.6
45°	6506.2	6456.7	6369.9	6308.0	6391.6	6410.2	6308.0	6326.6	6332.8	6441.2	6441.2
47.5°	6561.9	6555.7	6506.2	6459.7	6475.2	6459.7	6394.7	6422.6	6515.5	6568.1	6543.4
50°	6716.8	6651.7	6701.3	6661.0	6664.1	6707.5	6648.6	6676.5	6657.9	6611.5	6580.5
52.5°	7057.4	7026.4	7069.8	7097.7	7128.6	7227.7	7159.6	7011.0	6871.6	6747.7	6744.6
55°	7556.0	7577.7	7661.3	7803.7	7924.5	8082.4	7754.2	7398.1	7175.1	6980.0	6992.4
57.5°	8026.7	8011.2	8125.8	8450.9	8804.0	8884.5	8240.4	7732.5	7370.2	7246.3	7193.7
59°	7648.9	7723.2	7983.3	8345.6	8900.0	9017.6	8175.3	7460.0	7076.0	6825.2	6868.5
60°	7054.3	7082.2	7314.4	7819.2	8568.6	8769.9	7738.7	7038.8	6527.9	6382.3	6447.4
62.5°	4985.7	4964.0	5131.3	5543.1	6215.1	6487.6	5753.7	5261.3	4939.3	4778.2	4815.4
65°	2650.8	2749.9	2818.0	3075.0	3431.2	3719.2	3415.7	3202.0	3022.4	2889.2	2886.1
67.5°	1789.9	1777.5	1793.0	1851.8	1972.6	2053.1	2046.9	1938.5	1923.1	1898.3	1926.2
70°	1508.1	1501.9	1474.0	1474.0	1498.8	1517.4	1539.1	1551.5	1576.2	1607.2	1604.1
72.5°	1223.2	1207.7	1189.1	1179.8	1210.8	1220.1	1248.0	1260.4	1282.0	1278.9	1306.8
75°	808.2	808.2	829.9	854.7	864.0	882.6	885.7	922.8	922.8	929.0	904.2
77.5°	452.1	439.7	455.2	480.0	501.7	535.7	569.8	597.7	613.1	607.0	607.0
80°	263.2	263.2	278.7	306.6	334.4	365.4	390.2	411.9	427.3	421.2	408.8
82.5°	164.1	164.1	179.6	207.5	229.2	247.7	281.8	309.7	328.3	322.1	306.6
85°	83.6	83.6	102.2	120.8	148.6	161.0	157.9	145.5	142.4	127.0	127.0
87.5°	21.7	21.7	31.0	34.1	27.9	31.0	31.0	31.0	31.0	31.0	34.1
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)