

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: P530648

Luminaire Tested: **GALN-SA5D-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530648
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-SA5D-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 24954 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

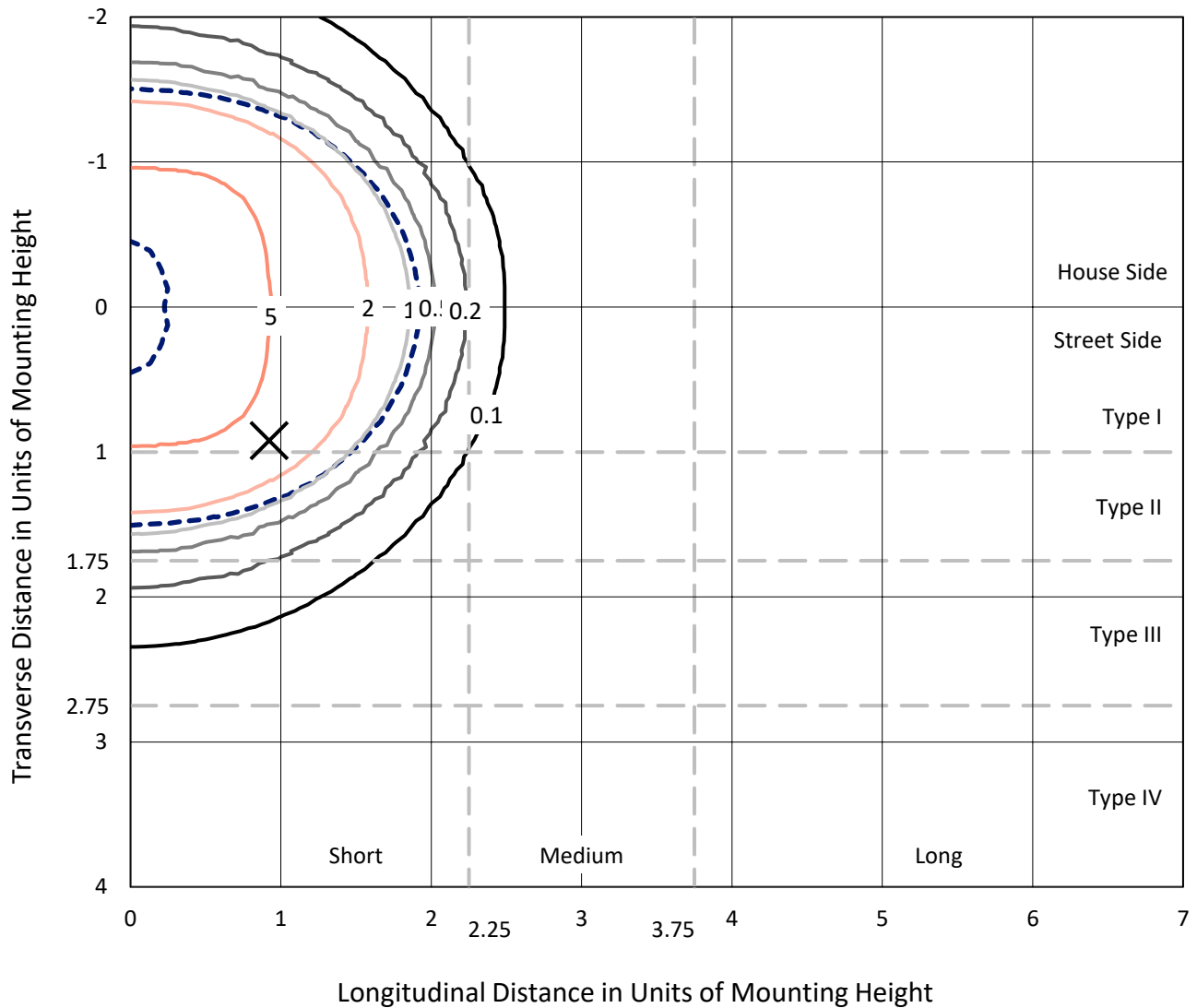
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

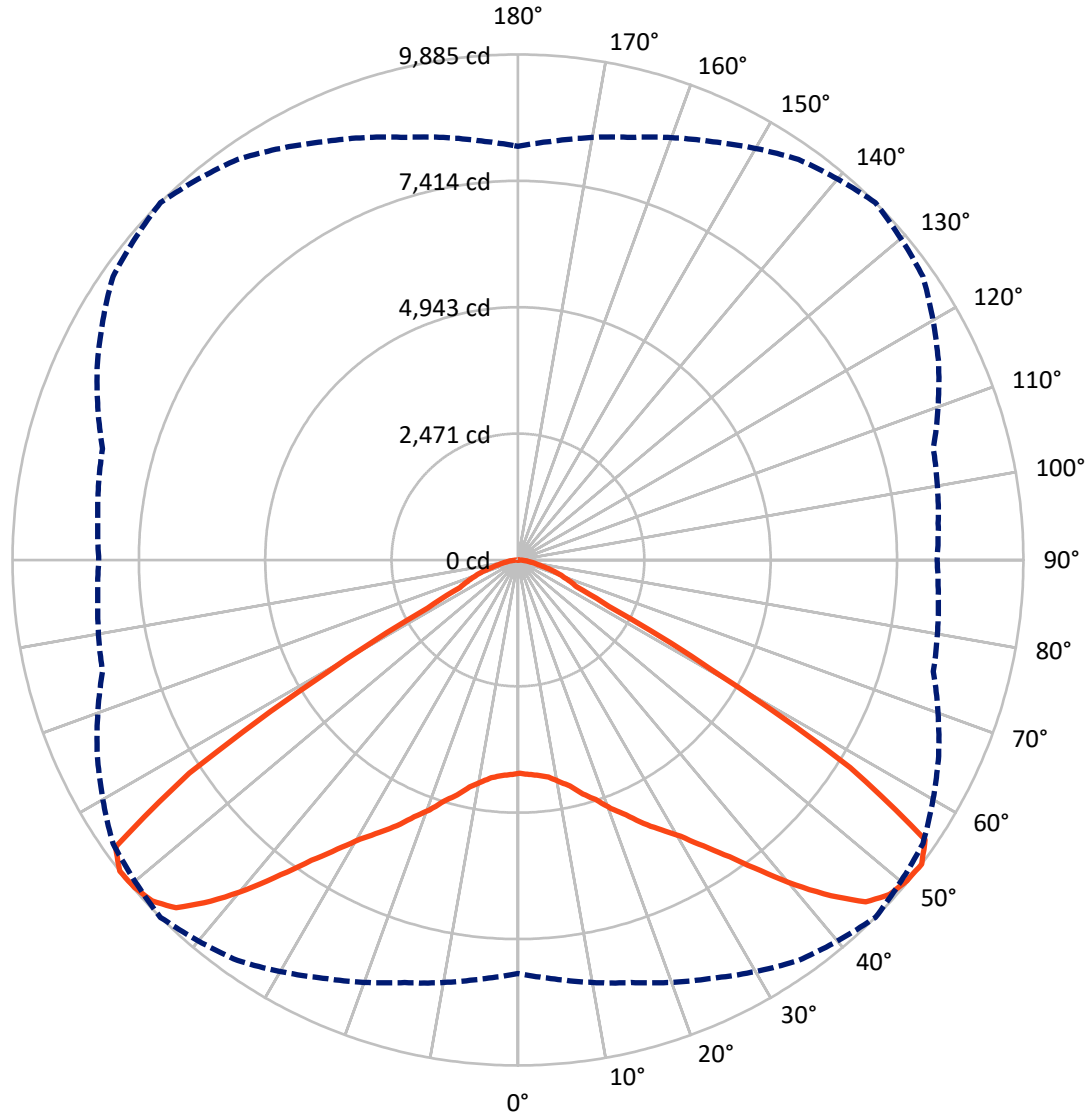
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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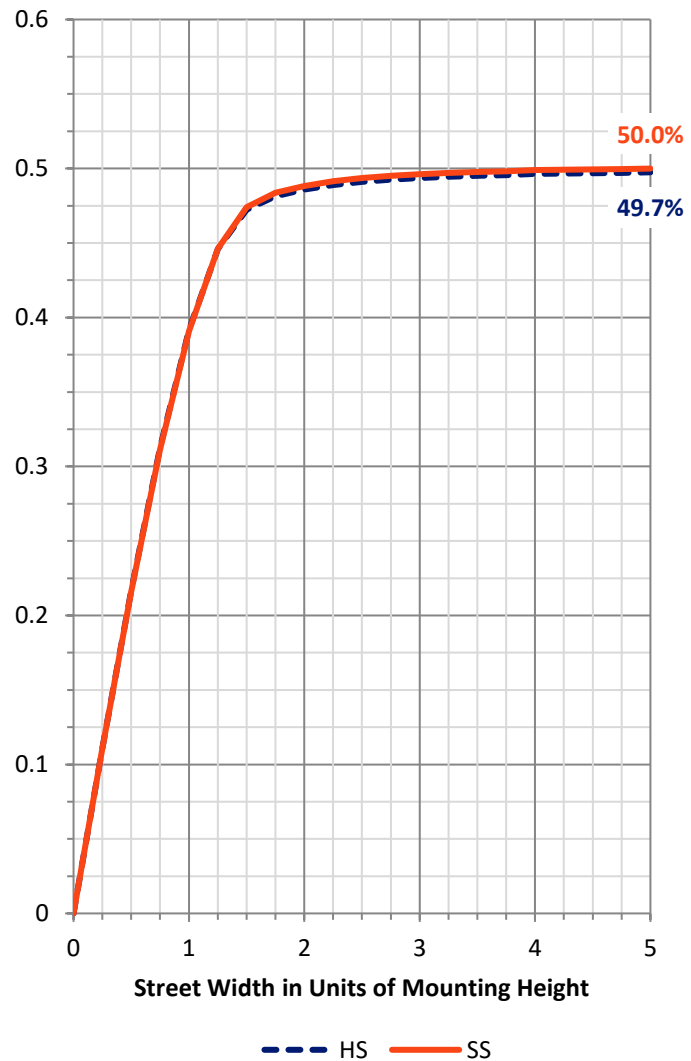
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12477.0	0.0	12477.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12477.0	0.0	12477.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24954.0	0.0	24954.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.8	1.6
10°-20°	1346.7	5.4
20°-30°	2563.9	10.3
30°-40°	4402.3	17.6
40°-50°	6766.5	27.1
50°-60°	6871.3	27.5
60°-70°	1914.9	7.7
70°-80°	564.9	2.3
80°-90°	113.8	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°	24954.0	100.0
0°-180°	24954.0	100.0



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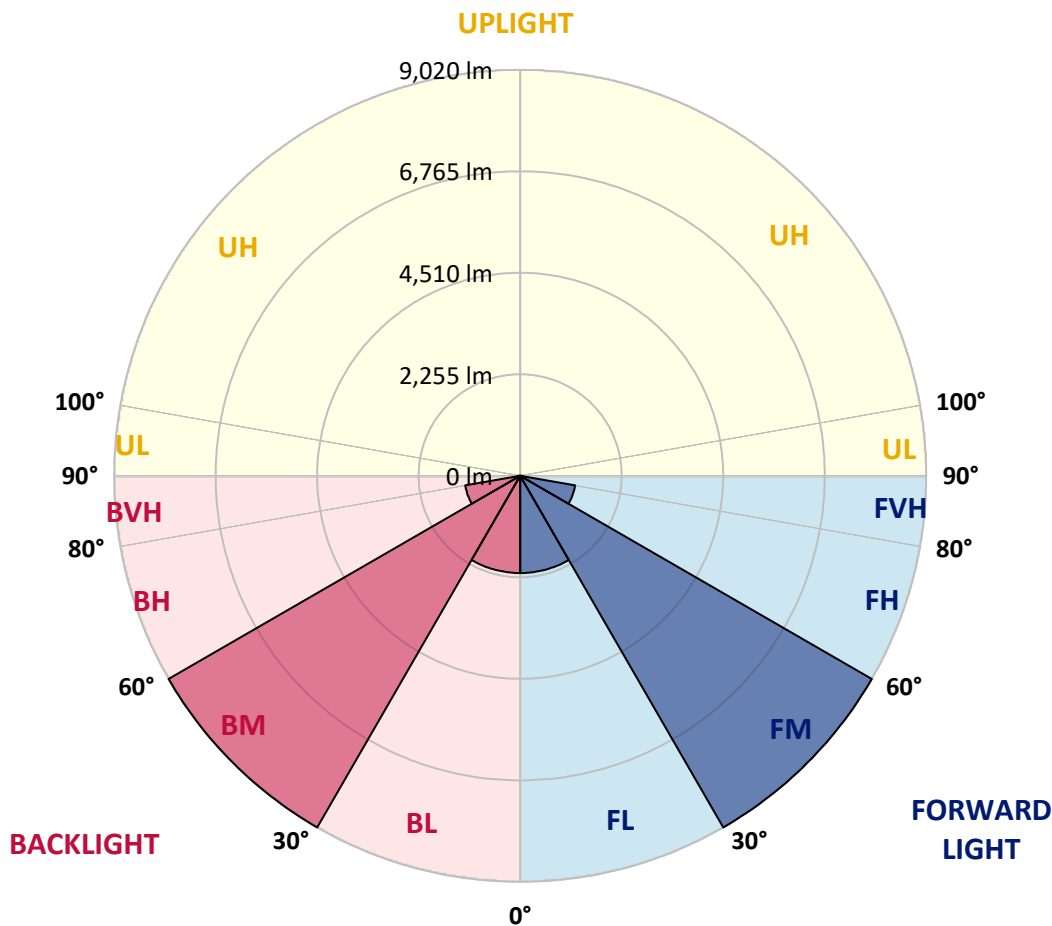
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2160.2	8.7			
FM (30°-60°)	9020.0	36.1			
FH (60°-80°)	1239.9	5.0			G1/1800
FVH (80°-90°)	56.9	0.2			G1/100
BL (0°-30°)	2160.2	8.7	B3/2500		
BM (30°-60°)	9020.0	36.1	B5		
BH (60°-80°)	1239.9	5.0	B3/2500		G1/1800
BVH (80°-90°)	56.9	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4
2.5°	4180.7	4137.3	4152.8	4162.1	4202.4	4199.3	4190.0	4202.4	4214.7	4217.8	4211.6
5°	4177.6	4146.6	4159.0	4168.3	4208.6	4230.2	4224.0	4276.7	4313.8	4304.6	4351.0
7.5°	4152.8	4171.4	4155.9	4202.4	4236.4	4289.1	4344.8	4394.4	4440.8	4493.5	4502.7
10°	4208.6	4208.6	4236.4	4273.6	4363.4	4403.6	4484.2	4555.4	4645.2	4707.1	4682.4
12.5°	4267.4	4276.7	4276.7	4372.7	4447.0	4536.8	4611.1	4707.1	4834.1	4908.4	4945.6
15°	4326.2	4332.4	4363.4	4493.5	4604.9	4747.4	4815.5	4902.2	4973.5	5112.8	5115.9
17.5°	4378.9	4412.9	4505.8	4651.4	4790.7	4927.0	5035.4	5125.2	5187.1	5242.9	5230.5
20°	4577.1	4601.8	4697.8	4843.4	5050.9	5184.0	5221.2	5236.7	5276.9	5388.4	5354.4
22.5°	4769.1	4778.4	4868.2	5091.1	5236.7	5413.2	5453.5	5444.2	5459.7	5487.5	5537.1
25°	4967.3	4982.8	5106.6	5295.5	5499.9	5710.5	5744.6	5673.3	5651.7	5682.6	5685.7
27.5°	5221.2	5224.3	5382.2	5546.4	5778.6	5976.8	6029.5	5973.7	5871.5	5896.3	5936.6
30°	5543.3	5521.6	5679.5	5914.9	6159.5	6271.0	6360.8	6333.0	6221.5	6199.8	6165.7
32.5°	5914.9	5921.1	6063.5	6320.6	6481.6	6667.4	6763.4	6717.0	6645.7	6608.6	6630.2
35°	6438.2	6466.1	6562.1	6775.8	7035.9	7128.8	7280.6	7181.5	6995.7	7042.1	7082.4
37.5°	6868.7	6949.2	7128.8	7382.8	7537.6	7707.9	7763.7	7630.5	7494.3	7438.5	7571.7
40°	7528.3	7503.5	7701.7	7955.7	8184.8	8355.2	8283.9	8150.8	7813.2	7816.3	7853.5
42.5°	8095.0	8107.4	8259.2	8562.7	8875.4	8980.7	8754.7	8429.5	8054.8	8014.5	8095.0
45°	8571.9	8621.5	8708.2	9113.9	9420.5	9535.0	9117.0	8733.0	8231.3	8064.1	8197.2
47.5°	8742.3	8822.8	9011.7	9383.3	9686.8	9779.7	9445.2	8894.0	8395.4	8122.9	8194.1
50°	8767.0	8739.2	9048.9	9389.5	9655.8	9857.1	9562.9	9011.7	8355.2	8212.7	8191.0
52.5°	8088.8	8225.1	8556.5	9024.1	9562.9	9885.0	9668.2	9076.7	8410.9	8249.9	8197.2
55°	6546.6	6385.6	6989.5	7776.1	8767.0	9662.0	9631.0	9110.8	8445.0	8311.8	8240.6
57.5°	3654.2	3700.7	4041.3	4896.0	6175.0	7661.5	8562.7	8751.6	8429.5	8352.1	8389.2
60°	1690.9	1706.3	1851.9	2251.4	3044.2	4344.8	5530.9	6735.5	7289.9	7401.4	7401.4
62.5°	1260.4	1254.2	1291.4	1362.6	1529.8	1997.4	2666.3	3623.3	4385.1	4917.7	5057.1
65°	1139.6	1136.5	1155.1	1179.9	1192.3	1257.3	1405.9	1700.1	1947.9	2090.3	2065.6
67.5°	997.2	994.1	1000.3	1015.8	1037.4	1071.5	1108.7	1170.6	1257.3	1251.1	1235.6
70°	805.2	805.2	814.5	826.8	851.6	891.9	935.2	978.6	1052.9	1068.4	1065.3
72.5°	594.6	585.3	603.9	628.7	653.4	703.0	749.4	789.7	842.3	857.8	851.6
75°	377.8	384.0	396.4	424.3	467.6	501.7	551.2	585.3	619.4	631.7	634.8
77.5°	210.6	216.8	238.5	272.5	315.9	353.0	396.4	424.3	445.9	449.0	452.1
80°	127.0	130.1	151.7	182.7	219.9	260.1	294.2	322.1	340.6	331.4	328.3
82.5°	77.4	80.5	99.1	127.0	157.9	188.9	226.1	250.8	269.4	257.0	244.6
85°	40.3	43.4	58.8	77.4	102.2	117.7	117.7	105.3	102.2	96.0	92.9
87.5°	12.4	12.4	15.5	18.6	15.5	18.6	21.7	24.8	24.8	27.9	24.8
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)