

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: P454759

Luminaire Tested: **GALN-SA5D-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28429 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

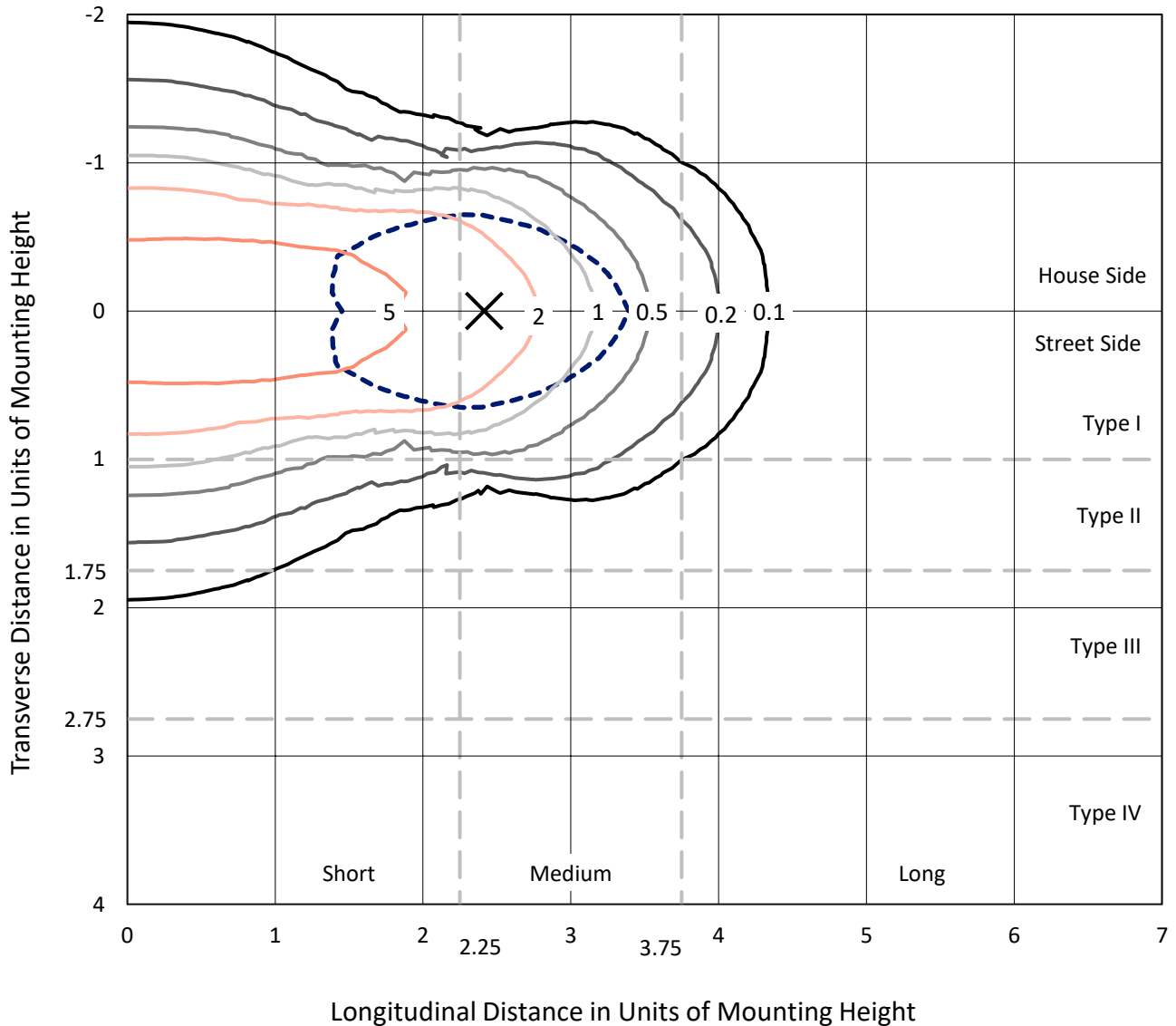
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

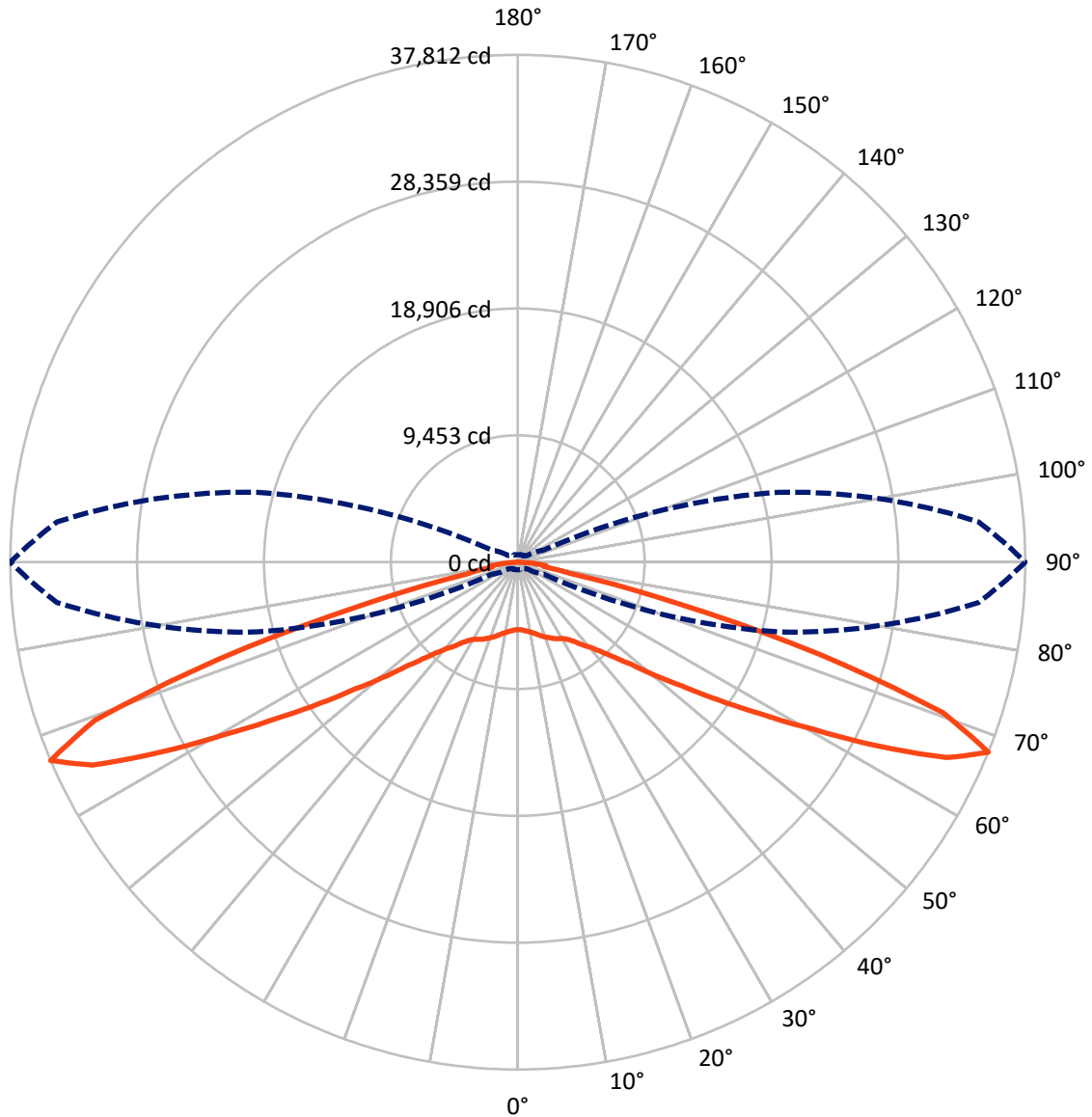
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14214.5	0.0	14214.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14214.5	0.0	14214.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28429.0	0.0	28429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.8	1.8
10°-20°	1605.4	5.6
20°-30°	2687.0	9.5
30°-40°	3640.2	12.8
40°-50°	4610.9	16.2
50°-60°	5760.2	20.3
60°-70°	6770.9	23.8
70°-80°	2590.2	9.1
80°-90°	262.4	0.9
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°	28429.0	100.0
0°-180°	28429.0	100.0

Coefficient of Utilization



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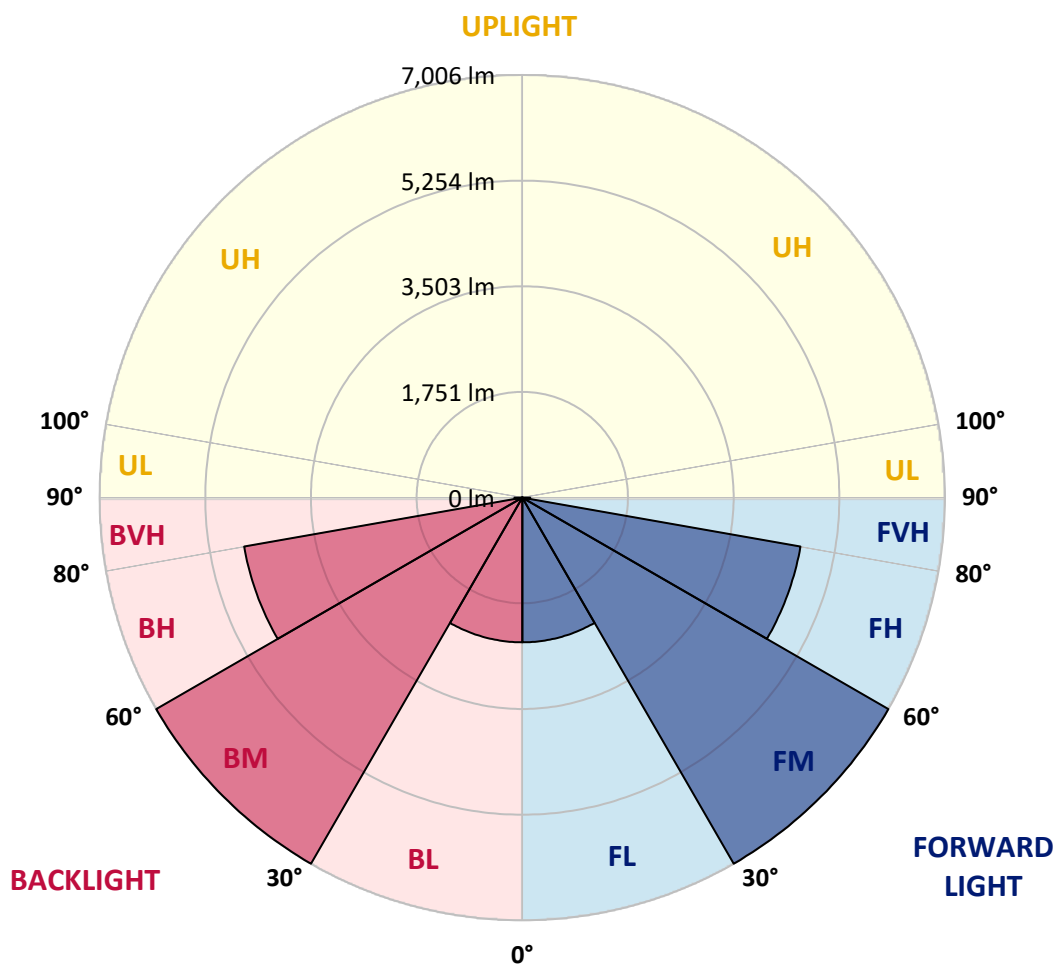
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2397.1	8.4			
FM	(30°-60°)	7005.7	24.6			
FH	(60°-80°)	4680.5	16.5			G2/5000
FVH	(80°-90°)	131.2	0.5			G2/225
BL	(0°-30°)	2397.1	8.4	B3/2500		
BM	(30°-60°)	7005.7	24.6	B4/8500		
BH	(60°-80°)	4680.5	16.5	B4/5000		G4/5000
BVH	(80°-90°)	131.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5032.8	5032.8	5032.8	5032.8	5032.8	5032.8	5032.8	5032.8	5032.8	5032.8	5032.8
2.5°	5097.4	5094.2	5095.8	5094.2	5098.9	5095.8	5076.9	5061.2	5048.6	5050.1	5045.4
5°	5206.0	5207.6	5209.1	5201.3	5212.3	5206.0	5176.1	5150.9	5125.7	5116.3	5113.1
7.5°	5295.7	5303.6	5308.3	5316.2	5335.1	5335.1	5319.3	5283.1	5228.0	5196.5	5195.0
10°	5385.4	5391.7	5405.9	5431.1	5462.6	5492.5	5486.2	5437.4	5366.6	5313.0	5300.4
12.5°	5416.9	5424.8	5472.0	5544.4	5615.3	5673.5	5673.5	5634.2	5542.9	5461.0	5437.4
15°	5306.7	5320.9	5405.9	5560.2	5745.9	5873.5	5901.8	5846.7	5749.1	5623.2	5594.8
17.5°	5087.9	5122.5	5246.9	5475.2	5783.7	6048.2	6130.1	6103.3	5977.4	5816.8	5783.7
20°	4853.4	4891.1	5023.4	5325.6	5752.2	6150.5	6388.2	6394.5	6238.7	6005.7	5956.9
22.5°	4595.2	4623.5	4793.5	5147.7	5657.8	6174.1	6610.2	6718.8	6507.9	6194.6	6125.3
25°	4305.5	4337.0	4514.9	4897.4	5479.9	6147.4	6813.3	7052.6	6789.7	6396.1	6307.9
27.5°	4028.5	4041.1	4231.5	4620.4	5245.3	6078.1	6962.8	7359.5	7101.4	6563.0	6451.2
30°	3762.4	3792.3	3960.8	4344.9	4976.1	5942.7	7091.9	7709.0	7436.7	6737.7	6594.5
32.5°	3480.6	3516.8	3699.4	4088.3	4707.0	5739.6	7170.6	8091.5	7904.2	7021.1	6868.4
35°	3209.9	3233.5	3417.7	3795.5	4444.1	5503.5	7184.8	8522.9	8507.1	7450.8	7247.8
37.5°	2932.8	2967.4	3153.2	3515.3	4165.4	5253.2	7114.0	8981.0	9234.4	8047.5	7828.7
40°	2666.7	2696.7	2879.3	3244.5	3849.0	4947.8	6945.5	9399.7	10083.0	8661.4	8351.3
42.5°	2377.1	2385.0	2584.9	2956.4	3538.9	4593.6	6703.1	9772.8	11029.1	9484.7	9099.1
45°	2048.1	2068.5	2254.3	2619.5	3183.1	4196.9	6374.1	10081.4	12228.6	10626.1	10100.3
47.5°	1719.1	1736.4	1906.4	2266.9	2794.3	3741.9	5867.2	10352.1	13459.7	12075.9	11386.4
50°	1397.9	1407.4	1545.9	1865.5	2356.6	3263.4	5239.0	10438.7	14851.3	14128.7	13248.7
52.5°	1105.1	1119.3	1224.8	1475.1	1889.1	2698.2	4560.5	10224.6	16475.9	16562.5	15322.0
55°	895.7	900.5	979.2	1163.4	1476.6	2106.3	3741.9	9628.0	18223.3	19681.0	18098.9
57.5°	771.4	774.5	818.6	920.9	1136.6	1588.4	2902.9	8499.3	19792.8	23334.8	21300.9
60°	700.5	702.1	727.3	787.1	900.5	1218.5	2079.6	6906.2	21341.9	27401.1	25280.6
62.5°	656.5	656.5	673.8	706.8	761.9	935.1	1506.5	4982.4	22402.9	31527.1	30185.9
65°	614.0	614.0	626.5	650.2	680.1	765.1	1113.0	3249.2	22376.1	34532.3	35119.5
67.5°	565.1	565.1	574.6	598.2	615.5	658.0	859.5	2128.4	20099.8	34466.2	37811.5
70°	506.9	506.9	519.5	540.0	554.1	580.9	678.5	1456.2	14766.3	29428.7	33627.2
72.5°	448.7	450.2	458.1	478.6	489.6	505.3	563.6	1020.1	9058.1	20038.4	23512.7
75°	384.1	387.3	395.1	415.6	425.0	431.3	475.4	727.3	4582.6	10804.0	12301.0
77.5°	310.1	316.4	321.1	343.2	349.5	358.9	392.0	525.8	2011.9	3882.1	3916.7
80°	226.7	234.6	248.7	269.2	273.9	280.2	299.1	373.1	911.5	1772.6	1925.3
82.5°	166.9	177.9	160.6	187.3	187.3	179.5	210.9	250.3	418.7	1755.3	2100.0
85°	91.3	92.9	83.4	96.0	102.3	100.8	111.8	122.8	203.1	1171.2	1207.4
87.5°	22.0	23.6	25.2	29.9	36.2	36.2	39.4	34.6	66.1	379.4	217.2
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)