

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: P457398

Luminaire Tested: **GALN-SA8D-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457398
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-SA8D-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 52150 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

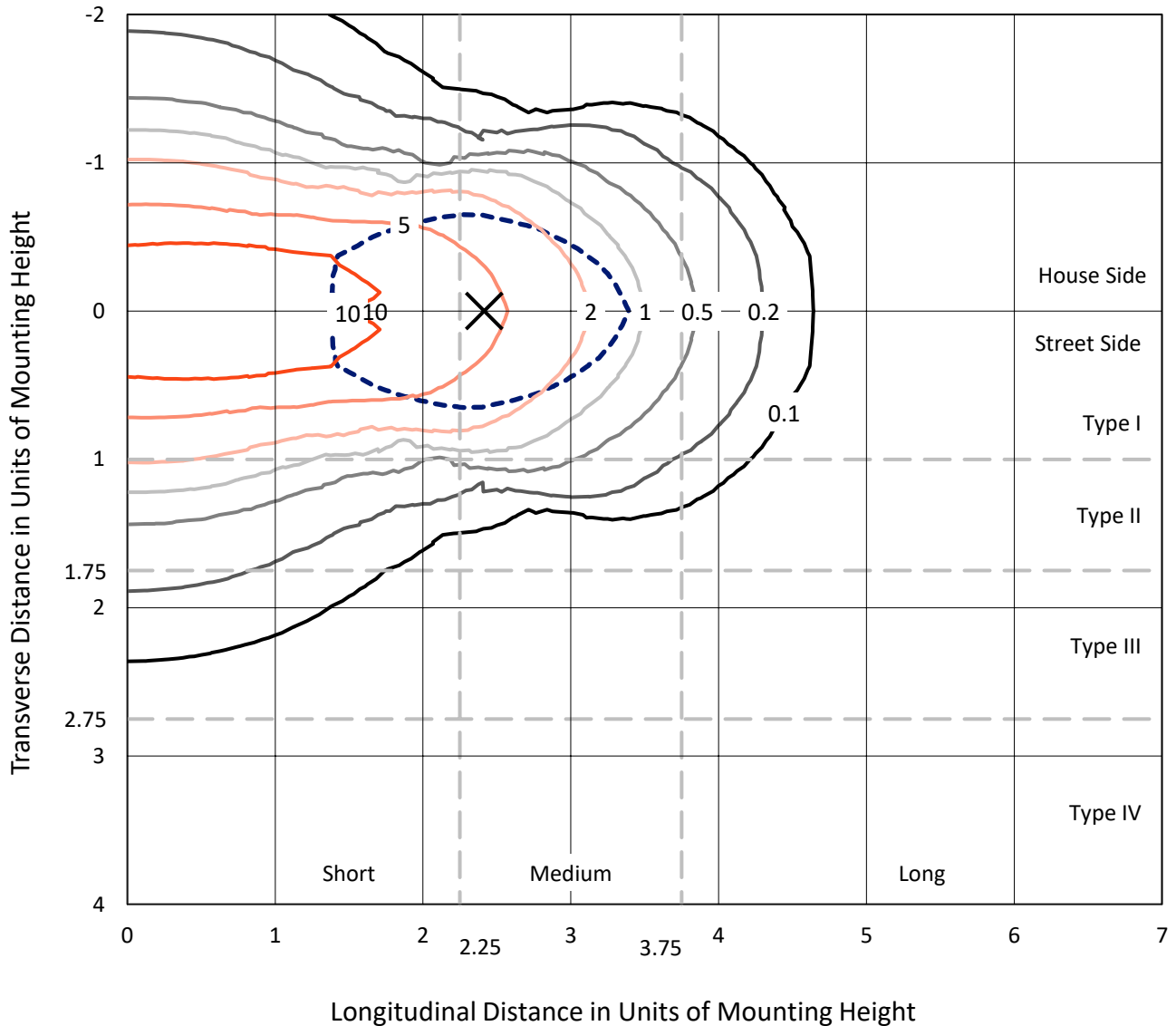
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

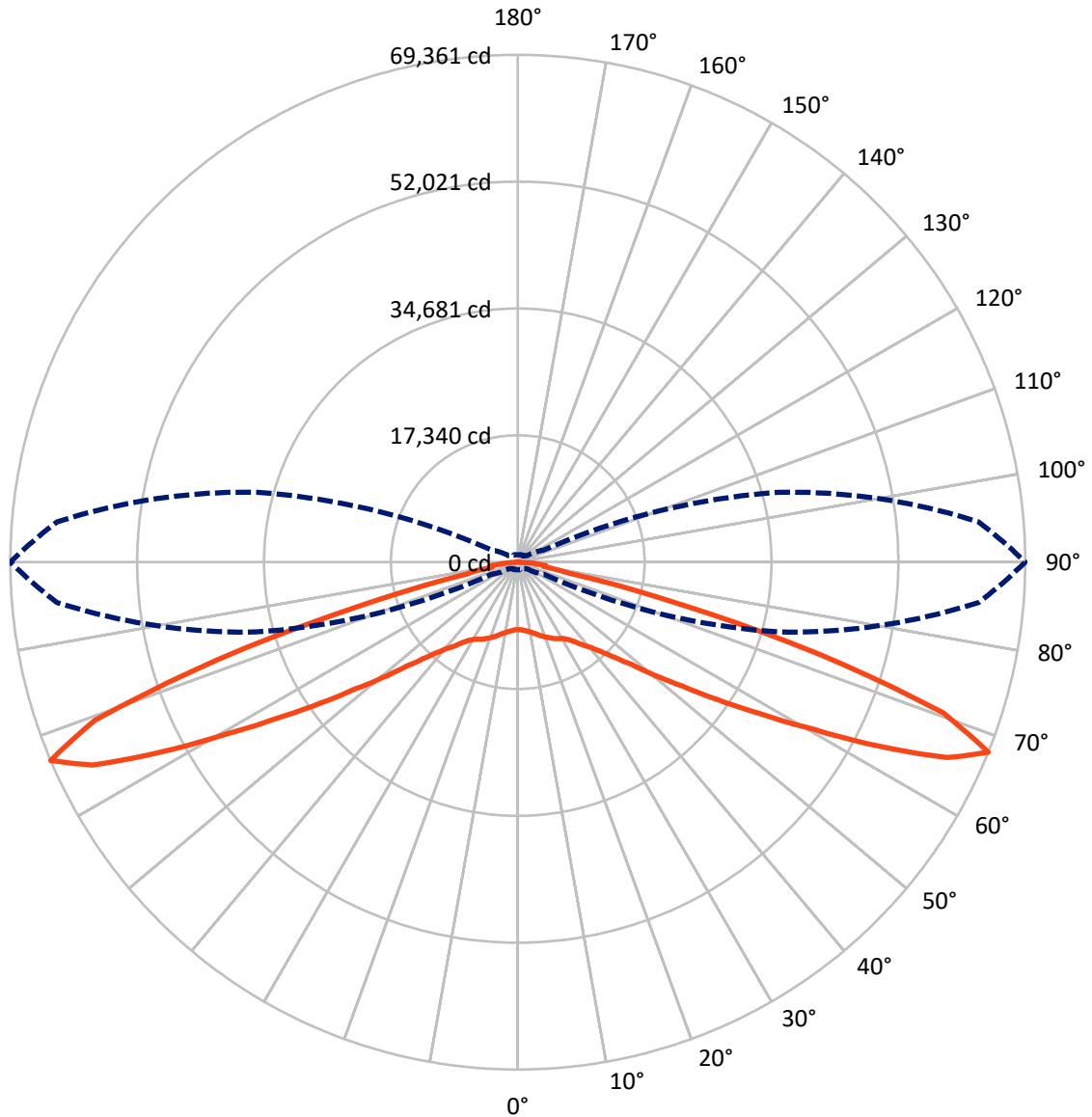
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	26075.0	0.0	26075.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26075.0	0.0	26075.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52150.0	0.0	52150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.4	1.8
10°-20°	2944.9	5.6
20°-30°	4929.1	9.5
30°-40°	6677.6	12.8
40°-50°	8458.3	16.2
50°-60°	10566.5	20.3
60°-70°	12420.4	23.8
70°-80°	4751.4	9.1
80°-90°	481.4	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°	52150.0	100.0
0°-180°	52150.0	100.0

Coefficient of Utilization



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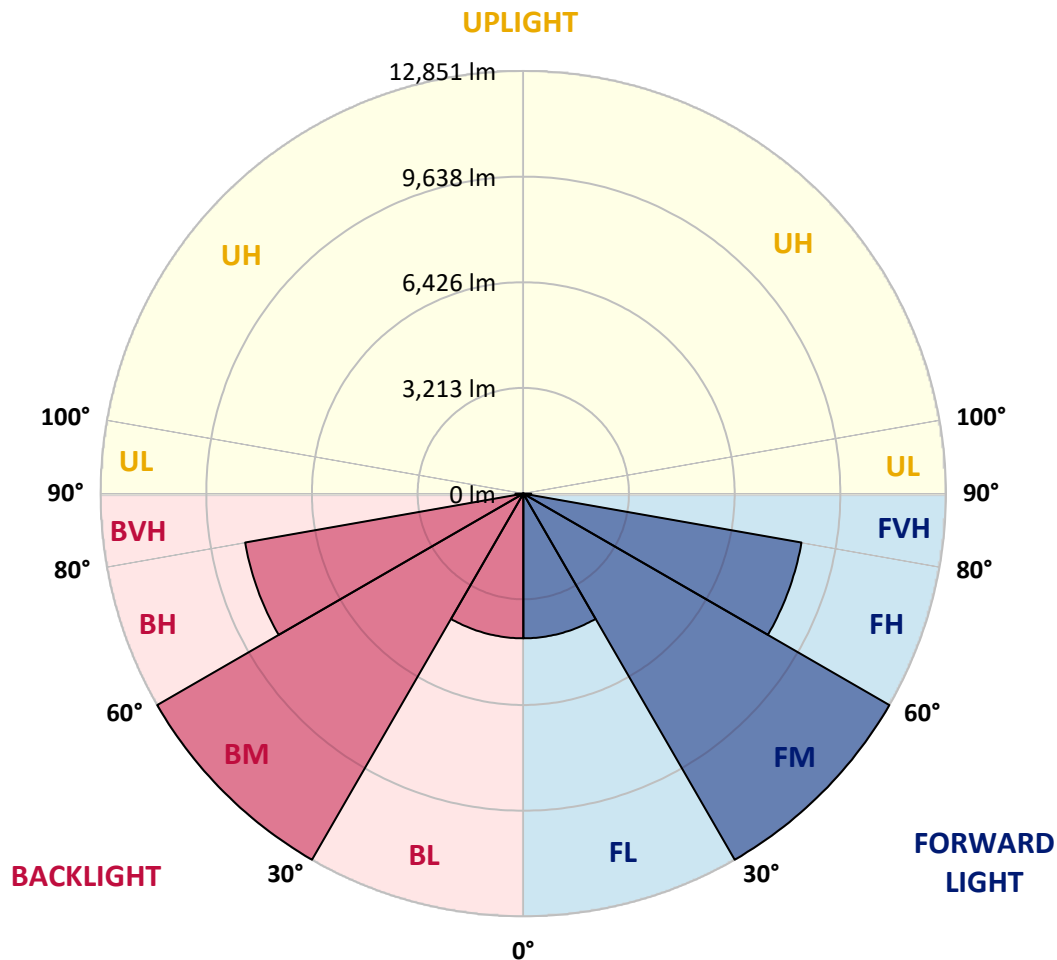
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4397.2	8.4			
FM	(30°-60°)	12851.2	24.6			
FH	(60°-80°)	8585.9	16.5			G4/12000
FVH	(80°-90°)	240.7	0.5			G3/500
BL	(0°-30°)	4397.2	8.4	B4/5000		
BM	(30°-60°)	12851.2	24.6	B5		
BH	(60°-80°)	8585.9	16.5	B5		G5
BVH	(80°-90°)	240.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9232.2	9232.2	9232.2	9232.2	9232.2	9232.2	9232.2	9232.2	9232.2	9232.2	9232.2
2.5°	9350.6	9344.8	9347.7	9344.8	9353.5	9347.7	9313.0	9284.2	9261.1	9263.9	9255.3
5°	9549.8	9552.7	9555.6	9541.2	9561.4	9549.8	9495.0	9448.8	9402.6	9385.2	9379.4
7.5°	9714.4	9728.9	9737.5	9752.0	9786.6	9786.6	9757.7	9691.3	9590.3	9532.5	9529.6
10°	9879.0	9890.6	9916.6	9962.8	10020.5	10075.4	10063.8	9974.3	9844.4	9746.2	9723.1
12.5°	9936.8	9951.2	10037.9	10170.7	10300.6	10407.5	10407.5	10335.3	10167.8	10017.6	9974.3
15°	9734.6	9760.6	9916.6	10199.6	10540.3	10774.2	10826.2	10725.1	10546.1	10315.1	10263.1
17.5°	9333.2	9396.8	9624.9	10043.6	10609.6	11094.8	11244.9	11195.9	10964.8	10670.3	10609.6
20°	8903.0	8972.3	9214.8	9769.3	10551.9	11282.5	11718.5	11730.1	11444.2	11016.8	10927.3
22.5°	8429.4	8481.4	8793.2	9443.0	10378.6	11325.8	12125.7	12325.0	11938.0	11363.3	11236.3
25°	7898.0	7955.8	8282.1	8983.8	10052.3	11276.7	12498.2	12937.2	12454.9	11733.0	11571.3
27.5°	7389.8	7412.9	7762.3	8475.6	9622.0	11149.6	12772.6	13500.3	13026.7	12039.1	11834.0
30°	6901.8	6956.6	7265.6	7970.2	9128.2	10901.3	13009.4	14141.4	13641.8	12359.6	12096.8
32.5°	6384.8	6451.3	6786.2	7499.5	8634.4	10528.8	13153.8	14843.1	14499.5	12879.4	12599.3
35°	5888.1	5931.5	6269.3	6962.4	8152.2	10095.6	13179.7	15634.3	15605.5	13667.8	13295.3
37.5°	5379.9	5443.4	5784.2	6448.4	7641.0	9636.5	13049.8	16474.7	16939.6	14762.2	14360.8
40°	4891.9	4946.7	5281.7	5951.7	7060.6	9076.2	12740.8	17242.8	18496.1	15888.5	15319.6
42.5°	4360.5	4375.0	4741.7	5423.2	6491.7	8426.5	12296.1	17927.2	20231.7	17398.8	16691.3
45°	3757.0	3794.5	4135.3	4805.2	5839.1	7698.8	11692.5	18493.2	22432.1	19492.4	18527.9
47.5°	3153.4	3185.2	3497.1	4158.4	5125.8	6864.2	10762.7	18989.9	24690.4	22152.0	20887.2
50°	2564.3	2581.7	2835.8	3422.0	4323.0	5986.3	9610.5	19148.7	27243.1	25917.7	24303.4
52.5°	2027.2	2053.2	2246.7	2705.8	3465.3	4949.6	8365.8	18756.0	30223.3	30382.1	28106.6
55°	1643.1	1651.8	1796.2	2134.1	2708.7	3863.8	6864.2	17661.5	33428.7	36102.8	33200.6
57.5°	1415.0	1420.8	1501.6	1689.3	2085.0	2913.8	5325.0	15591.0	36307.8	42805.3	39074.3
60°	1285.1	1287.9	1334.1	1443.9	1651.8	2235.1	3814.7	12668.6	39149.4	50264.4	46374.6
62.5°	1204.2	1204.2	1236.0	1296.6	1397.7	1715.3	2763.6	9139.8	41095.7	57833.2	55372.8
65°	1126.2	1126.2	1149.3	1192.6	1247.5	1403.5	2041.6	5960.3	41046.6	63345.9	64423.1
67.5°	1036.7	1036.7	1054.0	1097.3	1129.1	1207.1	1576.7	3904.3	36870.9	63224.7	69361.1
70°	929.9	929.9	953.0	990.5	1016.5	1065.6	1244.6	2671.2	27087.2	53983.8	61685.5
72.5°	823.0	825.9	840.3	877.9	898.1	927.0	1033.8	1871.3	16616.2	36758.3	43131.6
75°	704.6	710.4	724.8	762.4	779.7	791.2	872.1	1334.1	8406.3	19818.7	22565.0
77.5°	568.9	580.4	589.1	629.5	641.1	658.4	719.1	964.5	3690.6	7121.2	7184.8
80°	415.8	430.3	456.3	493.8	502.5	514.0	548.7	684.4	1672.0	3251.6	3531.7
82.5°	306.1	326.3	294.6	343.6	343.6	329.2	387.0	459.2	768.1	3219.9	3852.3
85°	167.5	170.4	153.1	176.2	187.7	184.8	205.0	225.2	372.5	2148.5	2214.9
87.5°	40.4	43.3	46.2	54.9	66.4	66.4	72.2	63.5	121.3	696.0	398.5
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)