

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: P458326

Luminaire Tested: **GALN-SA9D-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458326
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-SA9D-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 58548 lumens
Efficiency: N/A
Efficacy: 106.1 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

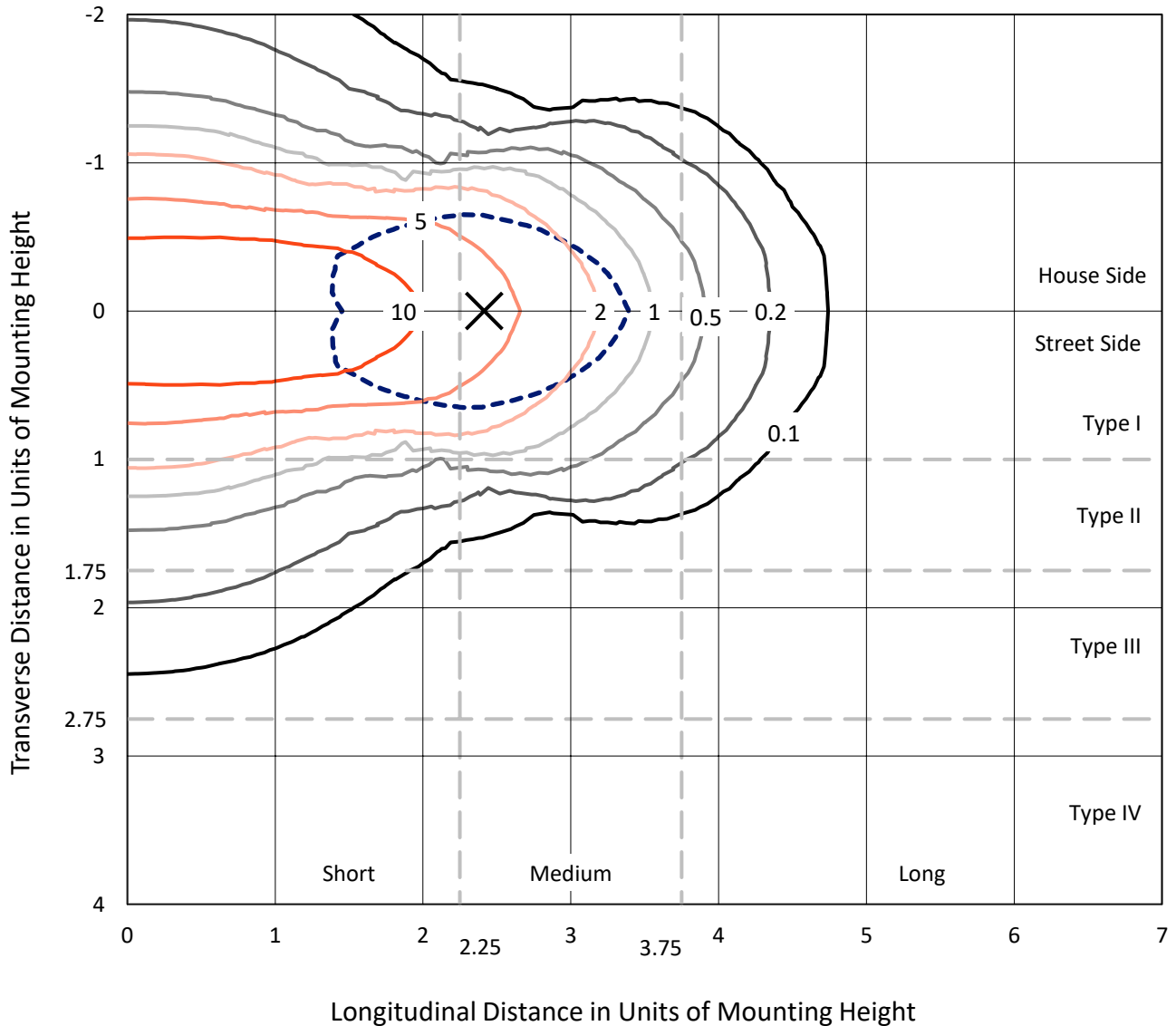
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

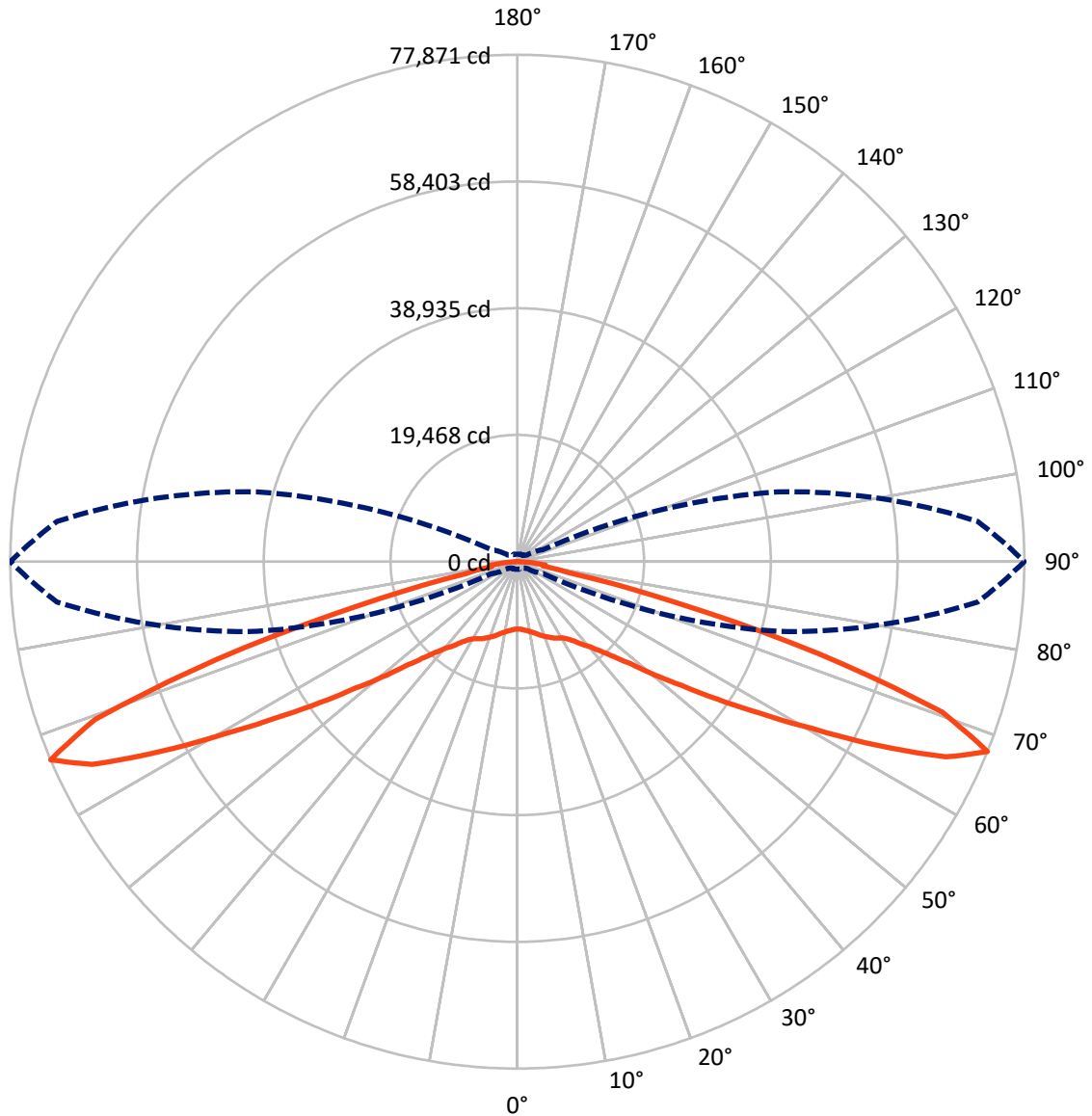
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	29274.0	0.0	29274.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29274.0	0.0	29274.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58548.0	0.0	58548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.4	1.8
10°-20°	3306.2	5.6
20°-30°	5533.8	9.5
30°-40°	7496.8	12.8
40°-50°	9496.0	16.2
50°-60°	11862.8	20.3
60°-70°	13944.2	23.8
70°-80°	5334.3	9.1
80°-90°	540.4	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°	58548.0	100.0
0°-180°	58548.0	100.0

Coefficient of Utilization



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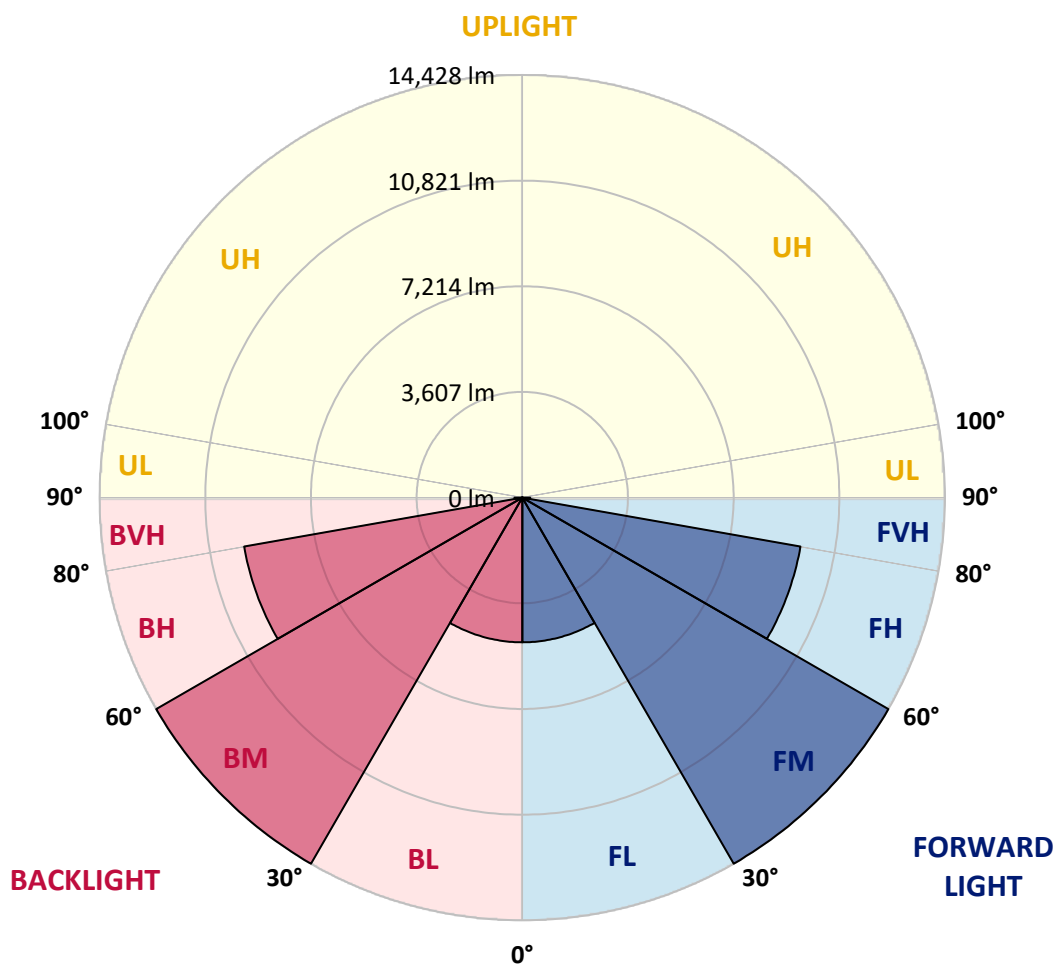
CATALOG NUMBER: GALN-SA9D-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4936.7	8.4			
FM (30°-60°)	14427.8	24.6			
FH (60°-80°)	9639.3	16.5			G4/12000
FVH (80°-90°)	270.2	0.5			G3/500
BL (0°-30°)	4936.7	8.4	B4/5000		
BM (30°-60°)	14427.8	24.6	B5		
BH (60°-80°)	9639.3	16.5	B5		G5
BVH (80°-90°)	270.2	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°	10364.8	10364.8	10364.8	10364.8	10364.8	10364.8	10364.8	10364.8	10364.8	10364.8	10364.8
2.5°	10497.7	10491.3	10494.5	10491.3	10501.0	10494.5	10455.6	10423.2	10397.2	10400.5	10390.8
5°	10721.4	10724.7	10727.9	10711.7	10734.4	10721.4	10659.8	10608.0	10556.1	10536.6	10530.2
7.5°	10906.2	10922.5	10932.2	10948.4	10987.3	10987.3	10954.9	10880.3	10766.8	10702.0	10698.7
10°	11091.0	11104.0	11133.2	11185.1	11249.9	11311.5	11298.5	11198.0	11052.1	10941.9	10916.0
12.5°	11155.9	11172.1	11269.3	11418.5	11564.4	11684.3	11684.3	11603.3	11415.2	11246.7	11198.0
15°	10928.9	10958.1	11133.2	11450.9	11833.5	12096.1	12154.4	12041.0	11839.9	11580.6	11522.2
17.5°	10478.3	10549.6	10805.7	11275.8	11911.3	12455.9	12624.5	12569.4	12310.0	11979.4	11911.3
20°	9995.2	10073.0	10345.4	10967.8	11846.4	12666.7	13156.2	13169.2	12848.2	12368.4	12267.9
22.5°	9463.5	9521.9	9872.0	10601.5	11651.9	12715.3	13613.3	13837.0	13402.6	12757.4	12614.8
25°	8867.0	8931.8	9298.2	10086.0	11285.6	12660.2	14031.6	14524.4	13982.9	13172.4	12990.9
27.5°	8296.4	8322.3	8714.6	9515.4	10802.5	12517.5	14339.6	15156.6	14624.9	13516.1	13285.9
30°	7748.5	7810.1	8157.0	8948.0	10248.1	12238.7	14605.4	15876.3	15315.4	13876.0	13580.9
32.5°	7168.2	7242.7	7618.8	8419.6	9693.7	11820.5	14767.5	16664.1	16278.3	14459.5	14145.0
35°	6610.5	6659.2	7038.5	7816.6	9152.3	11334.2	14796.7	17552.4	17520.0	15344.6	14926.4
37.5°	6039.9	6111.3	6493.8	7239.5	8578.5	10818.7	14650.8	18495.9	19017.8	16573.3	16122.7
40°	5492.0	5553.6	5929.7	6681.9	7926.8	10189.7	14303.9	19358.3	20765.3	17837.7	17199.1
42.5°	4895.5	4911.7	5323.4	6088.6	7288.1	9460.3	13804.6	20126.6	22713.8	19533.3	18739.0
45°	4217.9	4260.0	4642.6	5394.8	6555.4	8643.3	13127.0	20762.1	25184.2	21883.8	20801.0
47.5°	3540.3	3576.0	3926.1	4668.5	5754.6	7706.3	12083.1	21319.7	27719.5	24869.7	23449.7
50°	2878.9	2898.4	3183.7	3841.8	4853.3	6720.8	10789.5	21498.0	30585.5	29097.4	27285.1
52.5°	2275.9	2305.1	2522.3	3037.8	3890.5	5556.9	9392.2	21057.1	33931.2	34109.6	31554.8
55°	1844.7	1854.4	2016.6	2395.9	3041.0	4337.9	7706.3	19828.3	37529.9	40532.1	37273.8
57.5°	1588.6	1595.1	1685.9	1896.6	2340.8	3271.2	5978.3	17503.8	40762.2	48056.8	43868.1
60°	1442.7	1446.0	1497.8	1621.0	1854.4	2509.3	4282.7	14222.9	43952.4	56431.0	52064.0
62.5°	1351.9	1351.9	1387.6	1455.7	1569.1	1925.8	3102.6	10261.1	46137.5	64928.4	62166.2
65°	1264.4	1264.4	1290.3	1339.0	1400.6	1575.6	2292.1	6691.6	46082.4	71117.5	72326.8
67.5°	1163.9	1163.9	1183.3	1232.0	1267.6	1355.2	1770.2	4383.2	41394.4	70981.3	77870.7
70°	1043.9	1043.9	1069.9	1112.0	1141.2	1196.3	1397.3	2998.9	30410.4	60606.8	69253.3
72.5°	924.0	927.2	943.4	985.6	1008.3	1040.7	1160.7	2100.8	18654.7	41268.0	48423.2
75°	791.1	797.5	813.8	855.9	875.4	888.3	979.1	1497.8	9437.6	22250.2	25333.3
77.5°	638.7	651.7	661.4	706.8	719.7	739.2	807.3	1082.8	4143.3	7994.9	8066.2
80°	466.9	483.1	512.2	554.4	564.1	577.1	616.0	768.4	1877.1	3650.5	3965.0
82.5°	343.7	366.4	330.7	385.8	385.8	369.6	434.4	515.5	862.4	3614.9	4324.9
85°	188.0	191.3	171.8	197.8	210.7	207.5	230.2	252.9	418.2	2412.1	2486.6
87.5°	45.4	48.6	51.9	61.6	74.6	74.6	81.1	71.3	136.2	781.3	447.4
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)