

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: P454607

Luminaire Tested: **GALN-SA5D-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454607  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32113 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

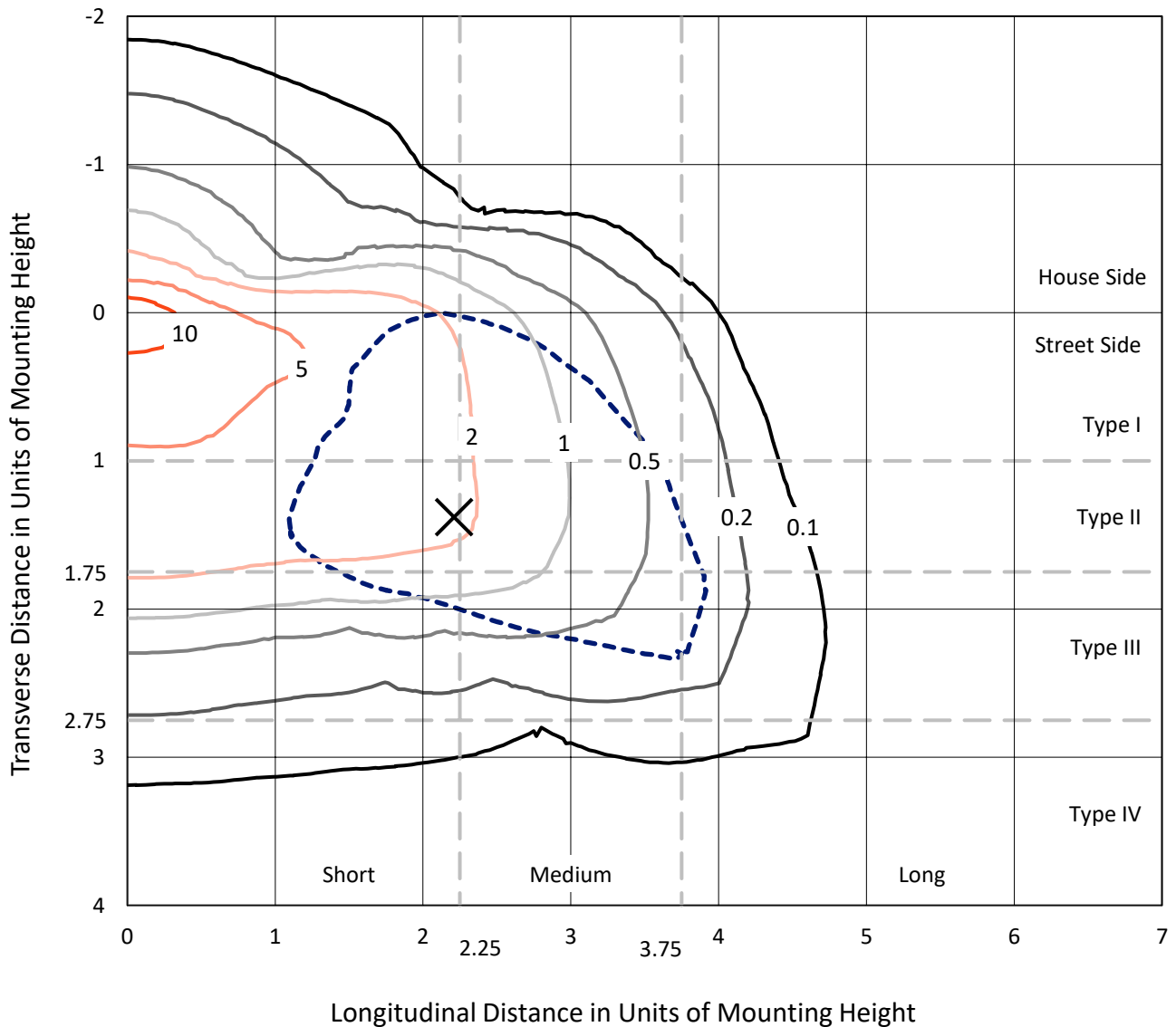
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 = 14.2 fc  
 Type III - Short - N/A



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4706.2	0.0	4706.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	27406.8	0.0	27406.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	32113.0	0.0	32113.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.6	2.3
10°-20°	1654.9	5.2
20°-30°	2138.1	6.7
30°-40°	2777.0	8.6
40°-50°	4037.3	12.6
50°-60°	6442.2	20.1
60°-70°	8606.0	26.8
70°-80°	4961.0	15.4
80°-90°	743.0	2.3
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°	32113.0	100.0
0°-180°	32113.0	100.0

**Coefficient of Utilization**



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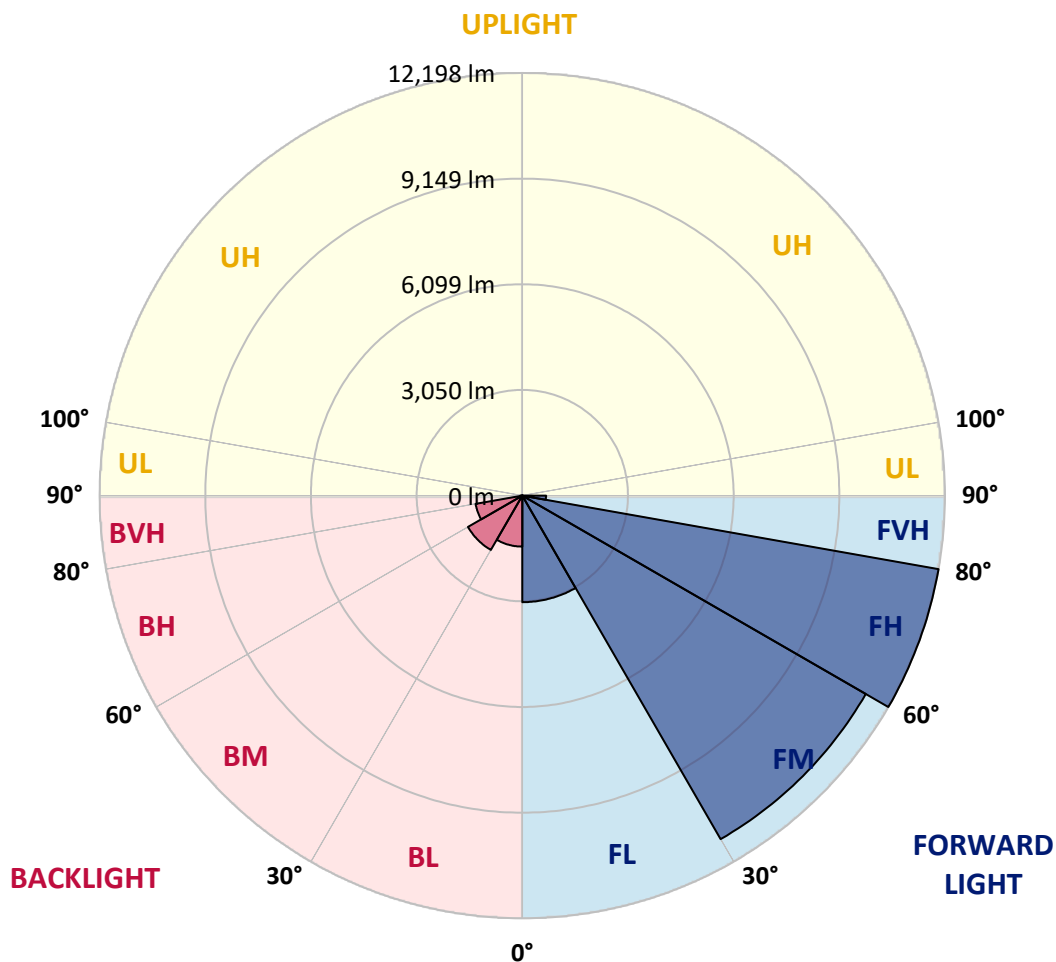
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3075.6	9.6			
FM	(30°-60°)	11446.6	35.6			
FH	(60°-80°)	12198.5	38.0			G5
FVH	(80°-90°)	686.1	2.1			G4/750
BL	(0°-30°)	1471.0	4.6	B3/2500		
BM	(30°-60°)	1809.8	5.6	B2/2500		
BH	(60°-80°)	1368.5	4.3	B3/2500		G3/2500
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: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2
2.5°	9203.7	9228.8	9221.6	9212.6	9198.3	9158.9	9094.4	9083.7	9042.5	8954.7	8845.5
5°	9062.2	9083.7	9085.5	9098.0	9115.9	9108.8	9062.2	9056.8	8995.9	8877.7	8695.1
7.5°	8576.9	8605.5	8668.2	8738.0	8800.7	8859.8	8874.2	8883.1	8845.5	8709.4	8465.8
10°	8030.6	8059.3	8087.9	8191.8	8345.8	8492.7	8614.5	8630.6	8639.5	8514.2	8216.9
12.5°	7425.3	7484.4	7545.3	7699.3	7905.2	8136.3	8351.2	8385.2	8446.1	8351.2	8002.0
15°	6911.3	6972.2	7059.9	7197.8	7446.8	7779.9	8082.6	8138.1	8258.1	8209.7	7801.4
17.5°	6554.9	6576.4	6637.3	6794.9	7063.5	7414.5	7819.3	7930.3	8122.0	8109.4	7629.4
20°	6273.7	6300.6	6338.2	6434.9	6714.3	7085.0	7573.9	7717.2	7976.9	8019.9	7459.3
22.5°	6155.5	6175.2	6169.8	6221.8	6411.6	6784.1	7325.0	7495.1	7847.9	7959.0	7301.7
25°	6162.7	6180.6	6153.7	6141.2	6254.0	6519.1	7065.3	7282.0	7744.1	7917.8	7158.4
27.5°	6282.6	6295.2	6245.0	6194.9	6203.8	6354.3	6850.4	7090.4	7656.3	7935.7	7038.4
30°	6443.8	6467.1	6434.9	6374.0	6307.7	6314.9	6712.5	6948.9	7615.1	7998.4	6981.1
32.5°	6651.6	6673.1	6658.7	6610.4	6524.4	6429.5	6678.4	6896.9	7618.7	8125.5	6968.6
35°	6870.1	6913.1	6936.3	6932.8	6862.9	6698.1	6812.8	6993.7	7704.7	8338.7	7042.0
37.5°	7117.2	7153.1	7253.3	7317.8	7253.3	7061.7	7115.4	7240.8	7894.5	8646.7	7203.2
40°	7357.2	7410.9	7557.8	7758.4	7733.3	7565.0	7577.5	7659.9	8229.4	9105.2	7518.4
42.5°	7608.0	7672.4	7928.5	8225.8	8284.9	8154.2	8188.2	8261.6	8705.8	9741.0	8059.3
45°	7930.3	8007.3	8322.5	8693.3	8926.1	8845.5	8942.2	8978.0	9343.4	10568.4	8772.1
47.5°	8345.8	8435.4	8824.0	9286.1	9615.6	9689.0	9857.4	9835.9	10133.2	11548.0	9696.2
50°	9046.1	9096.2	9463.4	9934.4	10387.5	10718.8	10901.5	10935.5	11112.8	12500.8	10729.6
52.5°	9878.9	9923.6	10188.7	10600.6	11168.4	11870.4	12321.7	12210.7	12253.7	13661.4	11938.5
55°	10815.5	10890.8	11059.1	11333.1	12069.2	13102.6	14008.8	14035.7	13559.3	14771.7	13097.2
57.5°	11540.9	11668.0	11956.4	12346.8	13279.9	14472.7	15690.5	15708.4	15099.5	15957.4	14375.9
60°	11175.5	11326.0	11985.0	12936.0	14868.5	16863.6	17700.0	17597.9	16598.5	17307.7	15935.9
62.5°	9599.5	9626.4	10584.5	12071.0	15357.4	20062.2	20690.8	20259.2	18599.0	19019.9	17520.9
65°	6212.8	6388.3	7147.7	9230.6	13750.9	21837.0	25931.2	24933.6	21403.6	20963.1	18847.9
67.5°	3922.2	3877.4	4192.6	5270.8	9458.0	20273.5	30403.2	30245.5	25071.5	22189.9	18531.0
69°	3252.4	3302.5	3410.0	4040.4	6508.3	17309.5	30931.5	32020.4	26849.9	22093.1	17379.4
70°	2949.7	2973.0	3085.8	3581.9	5021.8	14497.7	30064.7	31972.0	27548.4	21688.4	16544.8
72.5°	2340.8	2339.0	2532.4	2980.1	3753.8	8276.0	24686.4	27757.9	26767.5	19804.3	13670.3
75°	1778.4	1807.1	2020.2	2521.7	3458.3	4522.1	17227.1	21376.8	21378.6	15642.2	8530.3
77.5°	1282.3	1300.2	1549.2	2116.9	3257.7	3666.1	11474.6	15332.3	14413.6	7167.4	2681.1
80°	840.0	850.7	1040.5	1676.3	2937.2	3458.3	6803.8	9384.6	6798.4	1902.0	886.5
82.5°	460.3	514.0	635.8	1085.3	2356.9	3195.1	4135.3	4749.6	2550.3	847.1	462.1
85°	231.0	245.4	358.2	634.0	1540.2	2643.4	2879.8	2724.0	1316.3	420.9	240.0
87.5°	68.1	86.0	148.6	245.4	625.0	1377.2	1602.9	1438.1	506.8	152.2	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2	8874.2
2.5°	8800.7	8768.5	8625.2	8496.3	8378.1	8252.7	8147.0	8053.9	8062.9	8064.6	7969.7
5°	8600.1	8526.7	8254.5	8000.2	7785.3	7513.0	7280.2	7129.8	7054.5	6954.3	6990.1
7.5°	8327.9	8186.4	7808.5	7385.9	6990.1	6637.3	6254.0	5990.7	5822.4	5659.4	5680.9
10°	8046.7	7819.3	7269.5	6710.7	6198.5	5634.3	5145.4	4726.3	4414.7	4298.3	4221.3
12.5°	7758.4	7459.3	6760.8	6017.6	5310.2	4635.0	3941.9	3492.4	3148.5	2965.8	2989.1
15°	7495.1	7131.6	6230.7	5324.5	4405.7	3601.6	2910.3	2482.3	2242.3	2192.1	2220.8
17.5°	7251.6	6775.2	5734.6	4651.1	3578.3	2700.8	2186.7	1945.0	1848.3	1821.4	1819.6
20°	7000.8	6472.5	5177.6	3931.1	2788.5	2093.6	1794.5	1681.7	1663.8	1674.5	1676.3
22.5°	6746.5	6098.2	4604.5	3216.5	2220.8	1712.1	1568.9	1538.4	1552.8	1577.8	1581.4
25°	6511.9	5768.6	4052.9	2589.7	1773.0	1504.4	1434.6	1434.6	1466.8	1504.4	1506.2
27.5°	6318.5	5449.9	3503.1	2056.0	1484.7	1354.0	1330.7	1343.2	1388.0	1416.6	1418.4
30°	6159.1	5152.6	2983.7	1647.7	1305.6	1234.0	1228.6	1250.1	1282.3	1309.2	1311.0
32.5°	6039.1	4891.1	2498.4	1384.4	1182.0	1142.6	1140.8	1157.0	1174.9	1182.0	1189.2
35°	5992.5	4674.4	2054.2	1217.8	1099.6	1074.6	1074.6	1072.8	1079.9	1083.5	1087.1
37.5°	6030.1	4507.8	1710.4	1110.4	1038.8	1020.8	1010.1	999.3	995.8	995.8	997.6
40°	6189.5	4420.1	1454.3	1040.5	995.8	968.9	949.2	936.7	924.1	927.7	931.3
42.5°	6528.0	4436.2	1280.5	994.0	958.2	920.5	891.9	877.6	868.6	879.4	877.6
45°	7067.1	4597.4	1169.5	961.7	920.5	872.2	845.3	831.0	831.0	847.1	852.5
47.5°	7821.1	4905.4	1110.4	936.7	891.9	834.6	807.7	797.0	800.6	827.4	829.2
50°	8741.6	5440.9	1099.6	924.1	877.6	807.7	777.3	766.5	775.5	804.1	807.7
52.5°	9757.1	6130.4	1151.6	925.9	865.0	791.6	752.2	736.1	745.0	768.3	775.5
55°	10960.6	6993.7	1285.9	933.1	847.1	782.6	734.3	698.5	709.2	725.3	727.1
57.5°	12189.2	8082.6	1522.3	934.9	832.8	766.5	703.8	657.3	657.3	668.0	673.4
60°	13690.0	9268.2	1833.9	936.7	834.6	743.2	662.7	610.7	603.5	608.9	610.7
62.5°	15180.1	10260.3	1885.9	931.3	852.5	720.0	617.9	564.1	551.6	549.8	546.2
65°	15837.4	10075.9	1545.6	906.2	872.2	705.6	582.1	519.4	497.9	490.7	490.7
67.5°	14766.4	8523.1	1162.3	872.2	859.7	691.3	548.0	481.8	456.7	442.4	442.4
69°	13759.9	7581.1	1044.1	848.9	827.4	668.0	526.5	462.1	431.6	415.5	410.1
70°	12982.6	6932.8	994.0	829.2	797.0	641.2	510.4	447.7	413.7	395.8	392.2
72.5°	10360.6	5439.1	870.4	754.0	678.8	539.1	453.1	403.0	370.7	351.0	345.7
75°	5971.0	2947.9	721.8	655.5	546.2	419.1	383.3	351.0	326.0	308.0	302.7
77.5°	1837.5	1139.0	523.0	517.6	401.2	324.2	306.3	293.7	275.8	256.1	252.5
80°	773.7	580.3	354.6	349.2	266.9	225.7	220.3	218.5	211.3	195.2	189.8
82.5°	424.5	327.7	247.2	214.9	161.2	130.7	136.1	137.9	132.5	116.4	105.7
85°	207.8	179.1	120.0	96.7	73.4	46.6	44.8	53.7	50.1	35.8	39.4
87.5°	41.2	50.1	32.2	14.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
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)