

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: P451352

Luminaire Tested: **GALN-SA2B-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10016 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

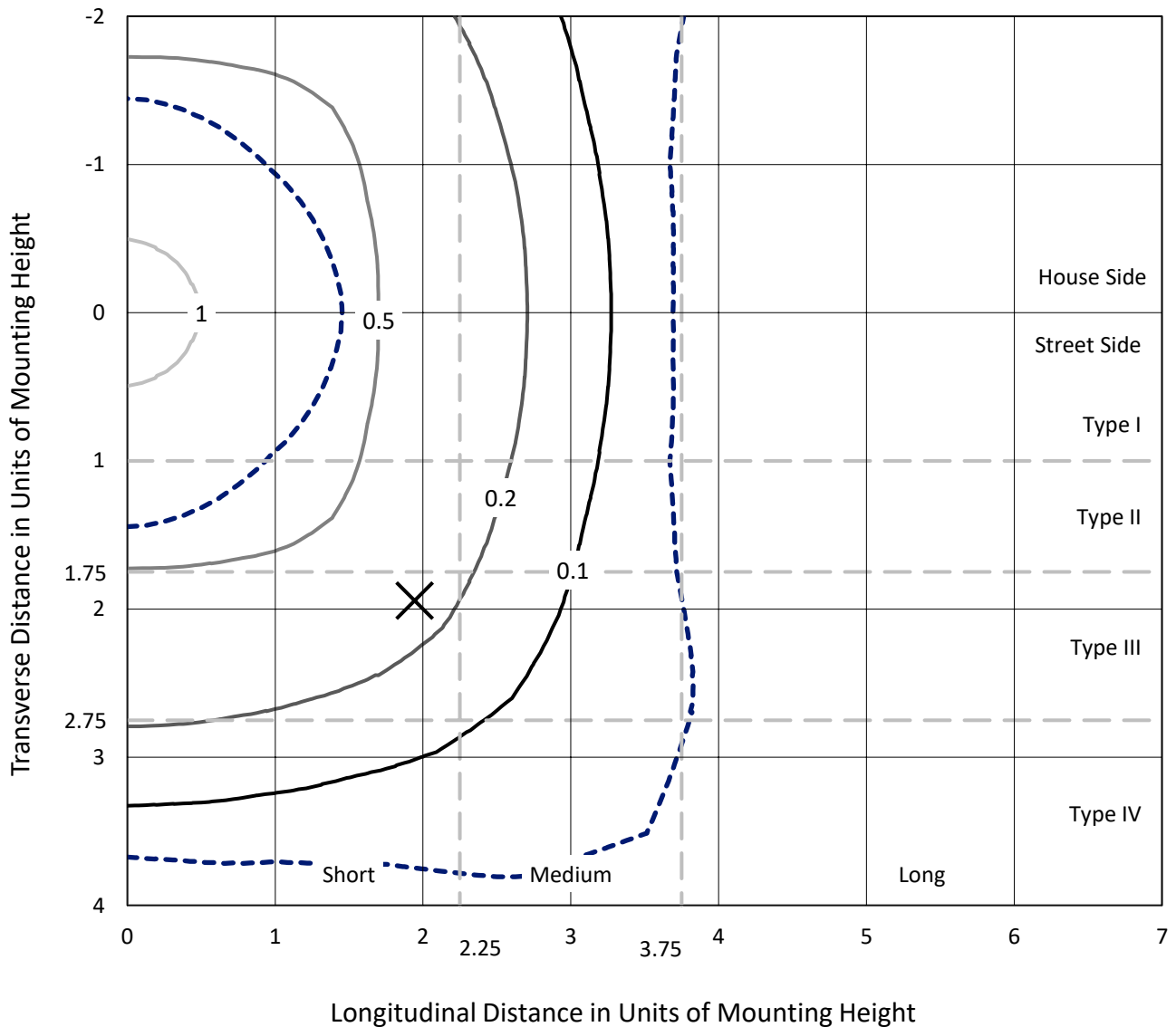
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

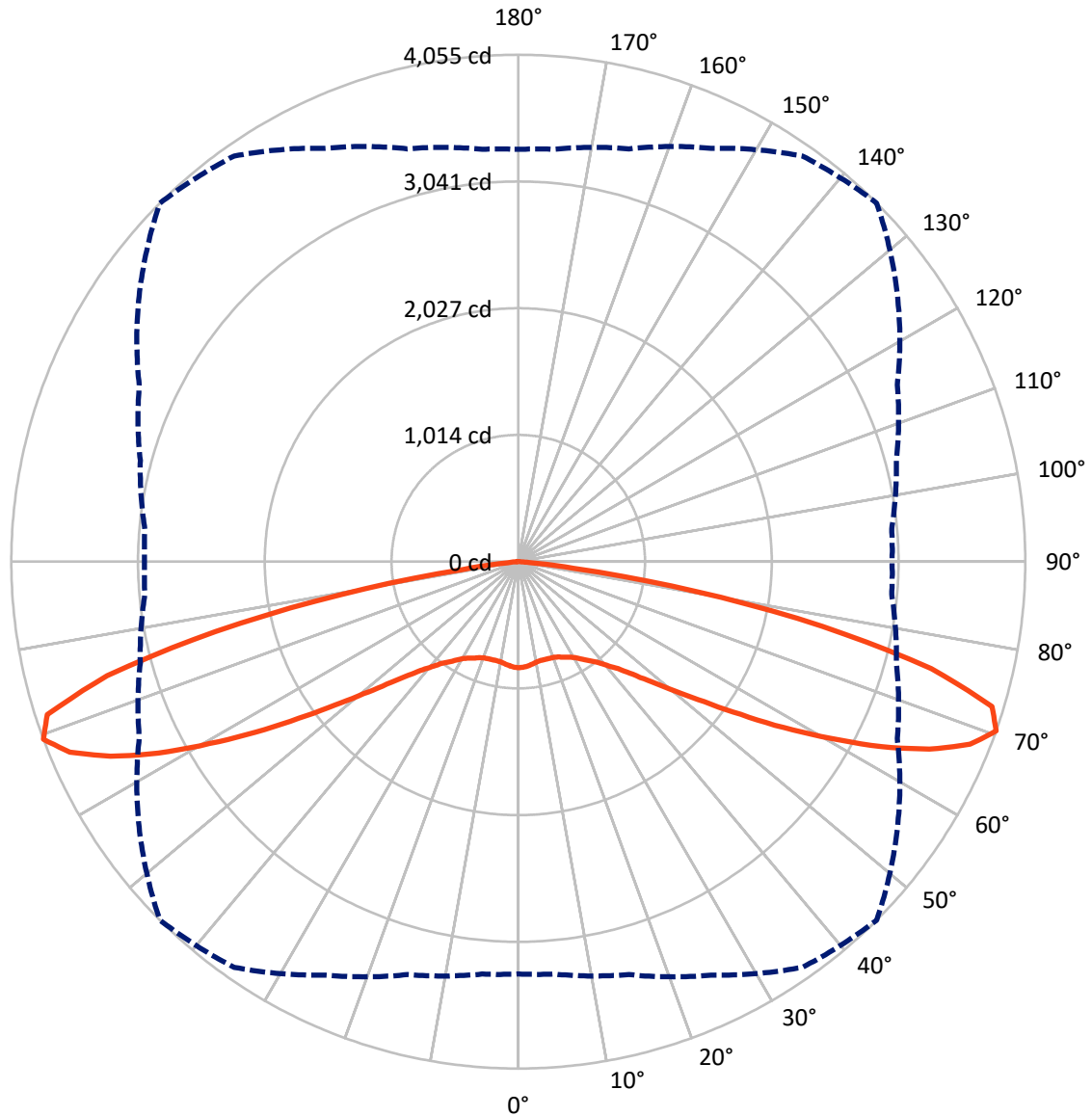
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA2B-727-U-5WQ

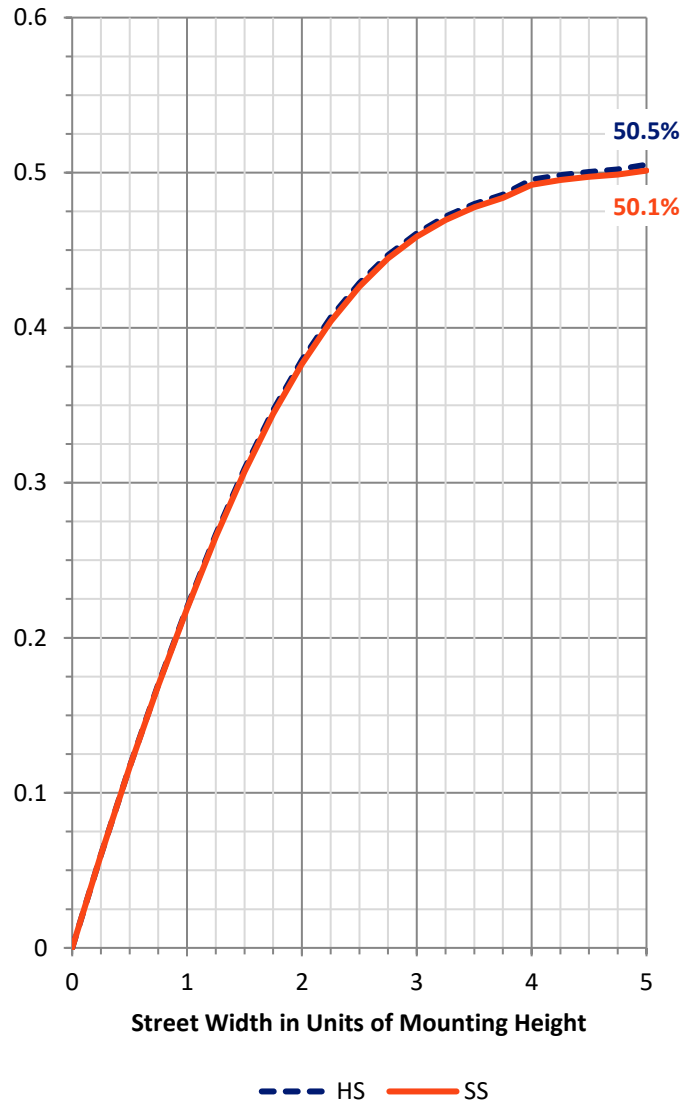
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5008.0	0.0	5008.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5008.0	0.0	5008.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10016.0	0.0	10016.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	0.8
10°-20°	232.2	2.3
20°-30°	395.5	3.9
30°-40°	613.1	6.1
40°-50°	1031.9	10.3
50°-60°	1877.5	18.7
60°-70°	3178.6	31.7
70°-80°	2460.4	24.6
80°-90°	147.4	1.5
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°	10016.0	100.0
0°-180°	10016.0	100.0



REPORT NUMBER: P451352

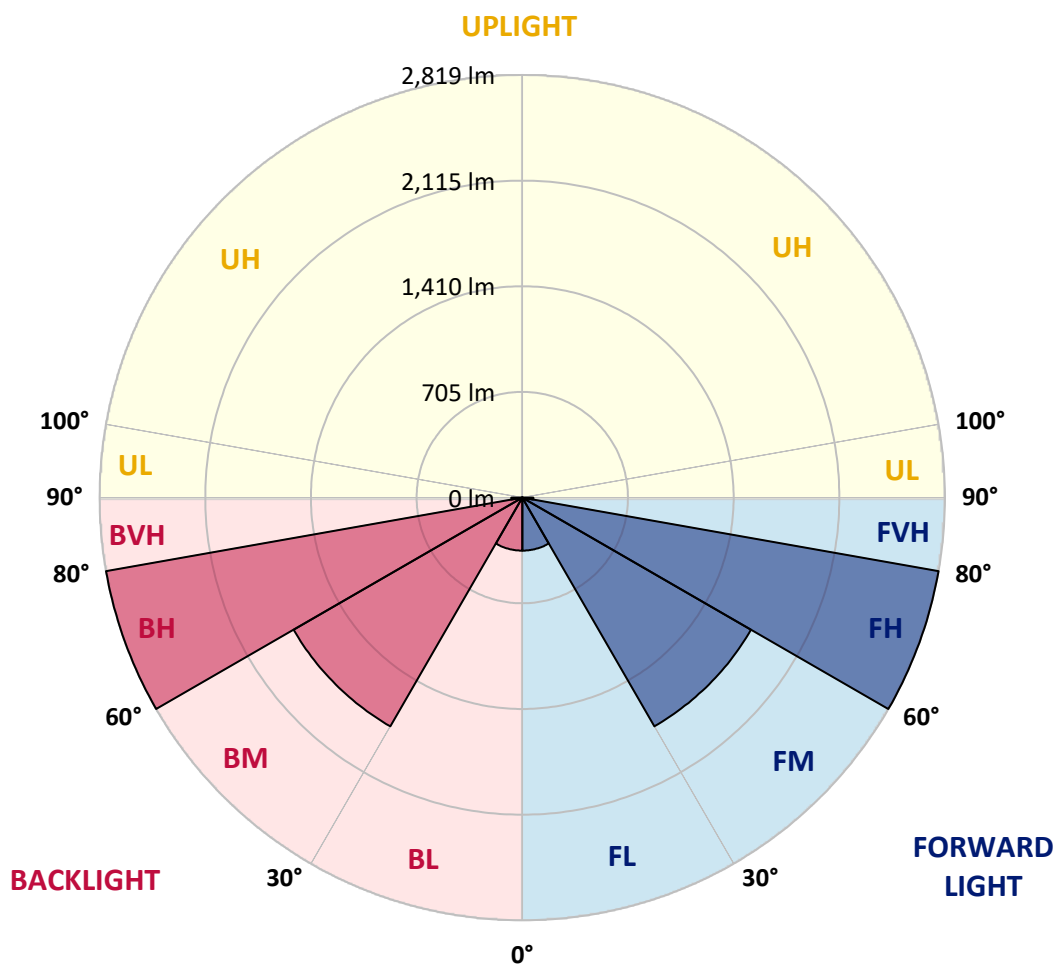
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.5	3.5			
FM	(30°-60°)	1761.3	17.6			
FH	(60°-80°)	2819.5	28.1			G2/5000
FVH	(80°-90°)	73.7	0.7			G1/100
BL	(0°-30°)	353.5	3.5	B1/500		
BM	(30°-60°)	1761.3	17.6	B2/2500		
BH	(60°-80°)	2819.5	28.1	B4/5000		G2/5000
BVH	(80°-90°)	73.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0
2.5°	845.9	846.4	846.4	845.3	844.8	844.8	844.3	844.3	845.9	846.4	846.9
5°	838.5	838.5	838.5	837.9	836.9	836.9	835.8	835.8	836.3	837.9	836.9
7.5°	828.4	829.5	829.5	827.3	825.8	825.8	825.2	825.8	826.3	827.9	827.3
10°	825.2	825.8	823.1	819.4	816.8	815.2	815.7	816.8	819.4	820.5	821.0
12.5°	827.3	827.3	822.6	817.3	812.5	810.4	809.9	813.6	818.4	821.5	822.6
15°	830.0	828.9	823.1	816.2	811.5	810.9	810.4	813.1	819.9	826.3	826.8
17.5°	831.6	831.0	823.6	815.2	812.5	812.5	812.0	814.1	821.5	829.5	830.0
20°	836.9	835.3	826.8	817.8	815.7	816.8	815.2	817.8	825.8	835.3	837.4
22.5°	847.4	845.9	837.4	828.4	827.3	827.3	826.8	829.5	837.9	848.0	849.6
25°	860.1	858.6	850.6	844.3	845.3	847.4	846.4	846.9	853.8	862.3	864.9
27.5°	877.1	874.4	867.5	862.3	865.4	865.4	865.4	864.9	869.1	877.1	879.7
30°	897.7	896.6	889.2	888.7	891.4	888.7	888.7	889.2	889.8	897.2	899.8
32.5°	924.7	922.6	918.9	917.8	925.2	927.3	919.9	913.0	916.7	924.2	925.7
35°	969.1	965.9	960.7	954.8	960.7	970.7	954.8	949.5	959.1	969.1	970.2
37.5°	1029.4	1027.8	1019.4	1008.8	1008.3	1018.8	1002.4	1001.9	1019.9	1032.1	1033.7
40°	1105.1	1106.7	1096.1	1086.0	1080.7	1089.2	1076.5	1081.3	1098.7	1112.5	1111.4
42.5°	1211.4	1205.6	1189.2	1179.7	1173.8	1170.7	1167.5	1174.9	1194.5	1209.3	1220.9
45°	1335.7	1333.6	1313.0	1301.3	1288.6	1283.9	1282.8	1296.0	1319.8	1337.8	1339.4
47.5°	1476.4	1471.7	1458.4	1446.3	1441.5	1435.7	1430.4	1440.5	1464.3	1477.0	1480.7
50°	1621.4	1622.4	1622.4	1620.3	1625.1	1626.1	1611.8	1615.5	1628.8	1627.7	1626.7
52.5°	1786.9	1792.8	1820.3	1822.9	1845.7	1861.0	1835.1	1819.7	1815.0	1786.4	1788.5
55°	1981.6	1986.9	2028.2	2069.4	2130.8	2156.7	2102.2	2054.6	2020.8	1977.4	1979.5
57.5°	2224.4	2227.1	2266.2	2345.6	2442.9	2503.7	2408.0	2313.8	2245.0	2203.8	2187.4
60°	2485.7	2488.4	2545.5	2642.3	2793.6	2867.7	2749.2	2595.2	2508.5	2445.5	2449.8
62.5°	2799.4	2810.0	2861.3	2994.6	3178.2	3261.2	3104.1	2898.4	2780.9	2702.6	2705.8
65°	3135.3	3153.3	3209.4	3355.9	3525.2	3614.6	3422.1	3184.5	3038.5	2942.8	2952.8
67.5°	3353.3	3369.2	3450.1	3612.0	3823.0	3897.1	3648.5	3371.8	3189.3	3075.0	3053.9
70°	3297.7	3311.0	3418.9	3648.5	3961.1	4054.7	3702.4	3344.3	3129.5	2997.8	2989.3
72.5°	2911.1	2883.5	3041.2	3370.7	3803.5	3960.6	3532.6	3054.4	2784.1	2648.7	2632.8
75°	1929.2	1989.0	2221.8	2610.1	3217.9	3412.5	3015.3	2452.4	2112.3	1999.6	1982.1
77.5°	644.8	690.9	897.7	1479.6	2193.7	2486.3	2196.9	1603.9	1134.7	914.1	918.3
80°	170.9	168.7	218.5	406.8	948.0	1439.9	1103.5	543.3	297.3	215.3	204.2
82.5°	61.4	68.8	88.3	112.7	251.3	447.5	315.8	152.4	111.6	82.5	79.9
85°	27.0	26.4	38.1	45.0	63.0	83.6	74.1	64.5	56.6	37.6	34.9
87.5°	5.8	5.8	9.0	6.9	11.1	11.1	13.8	16.4	16.9	11.1	9.0
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)