

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: P452279

Luminaire Tested: **GALN-SA3B-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14826 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

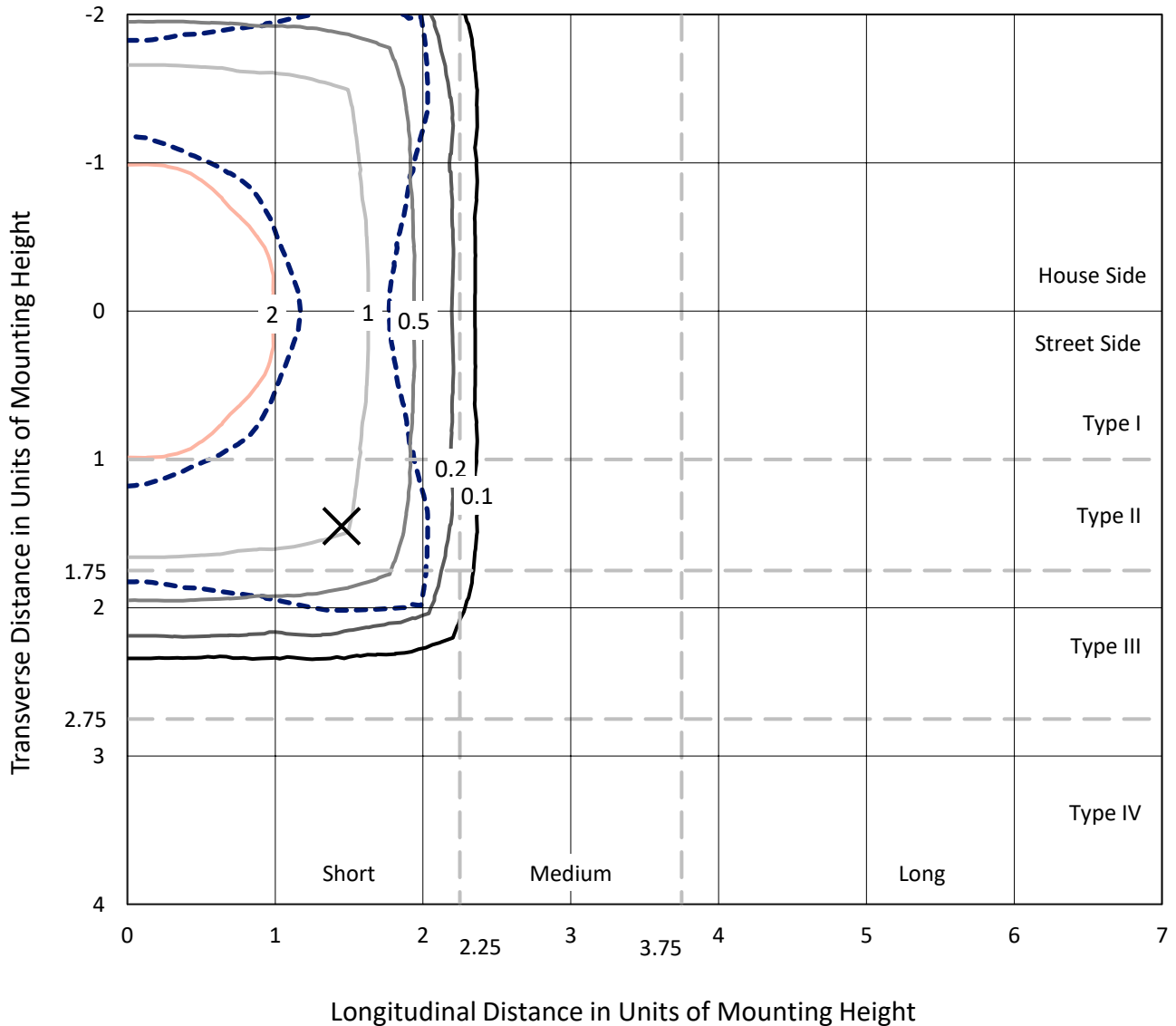
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

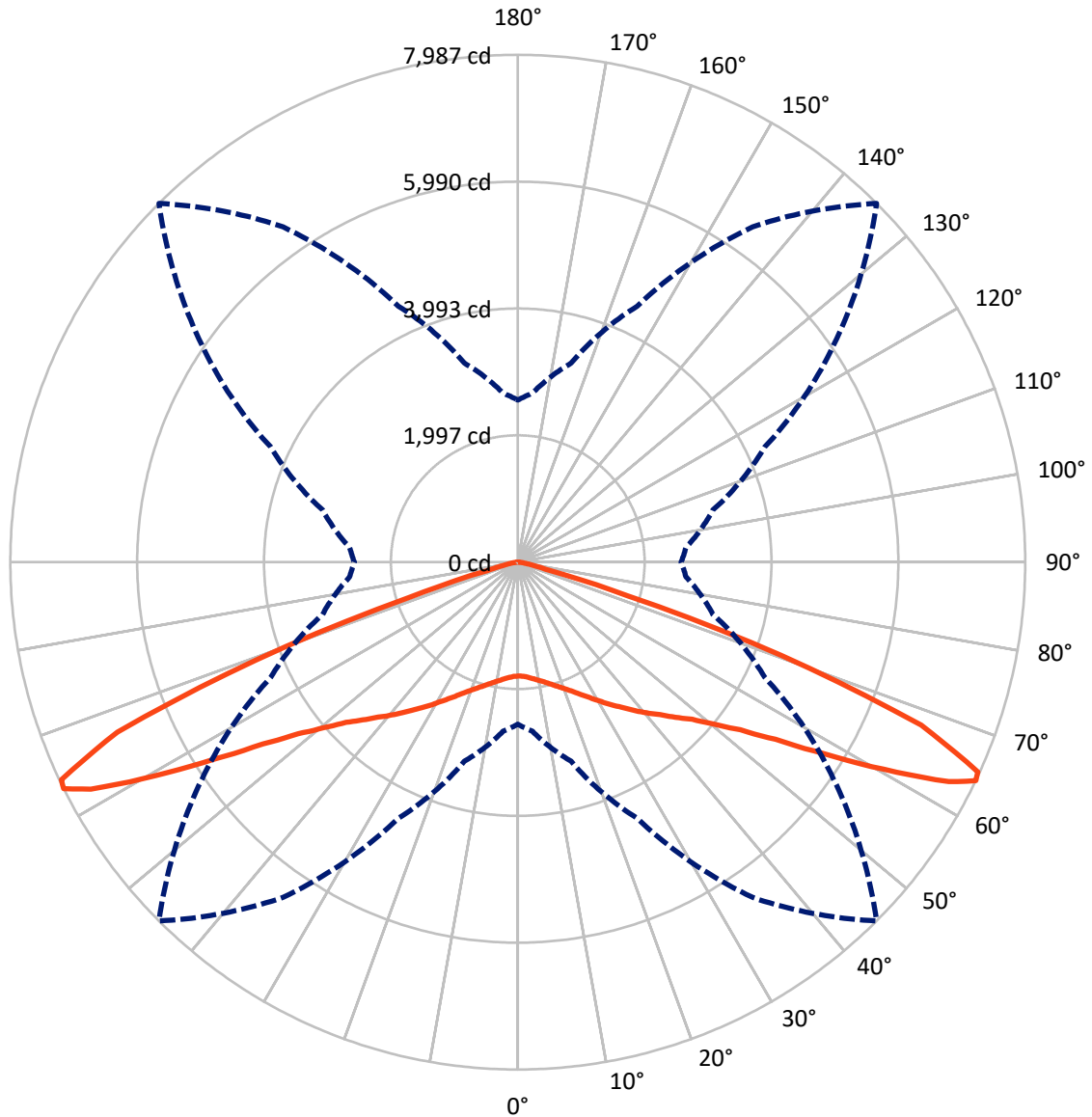
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7413.0	0.0	7413.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7413.0	0.0	7413.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14826.0	0.0	14826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	1.2
10°-20°	567.9	3.8
20°-30°	1073.1	7.2
30°-40°	1777.2	12.0
40°-50°	2774.5	18.7
50°-60°	4289.3	28.9
60°-70°	3698.6	24.9
70°-80°	419.1	2.8
80°-90°	50.2	0.3
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°	14826.0	100.0
0°-180°	14826.0	100.0

**Coefficient of Utilization**



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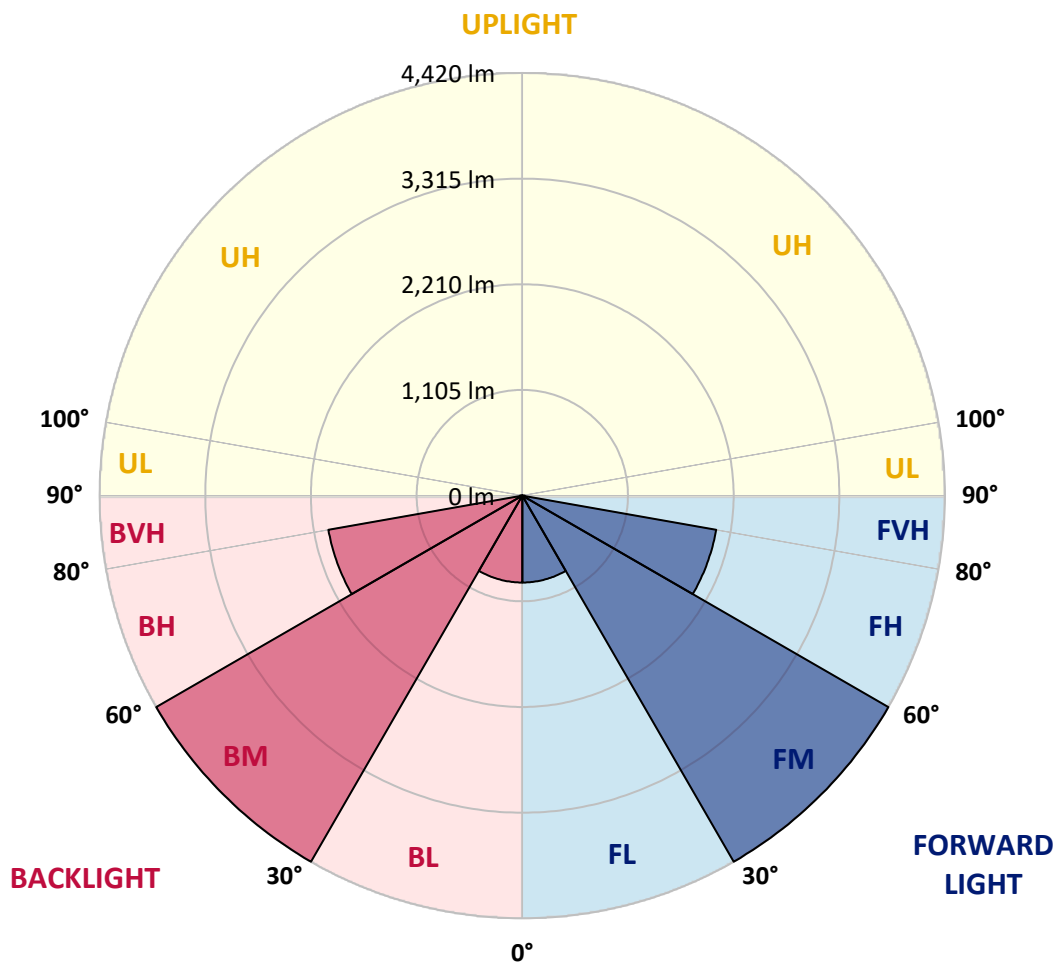
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.5	6.1			
FM (30°-60°)	4420.5	29.8			
FH (60°-80°)	2058.9	13.9			G2/5000
FVH (80°-90°)	25.1	0.2			G1/100
BL (0°-30°)	908.5	6.1	B2/1000		
BM (30°-60°)	4420.5	29.8	B3/5000		
BH (60°-80°)	2058.9	13.9	B3/2500		G2/5000
BVH (80°-90°)	25.1	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1799.0	1803.0	1799.8	1799.0	1798.3	1798.3	1798.3	1799.0	1802.2	1804.5	1803.0
5°	1821.8	1825.0	1823.4	1822.6	1821.8	1822.6	1821.0	1820.2	1822.6	1822.6	1821.8
7.5°	1850.1	1854.0	1852.4	1854.0	1854.8	1855.6	1851.7	1848.5	1847.7	1850.1	1848.5
10°	1888.6	1891.7	1892.5	1893.3	1894.8	1894.1	1889.3	1883.8	1883.1	1882.3	1881.5
12.5°	1931.7	1934.1	1934.9	1938.0	1940.4	1941.2	1935.7	1931.0	1923.1	1924.7	1921.5
15°	1980.4	1985.1	1984.4	1989.1	1995.4	1996.9	1991.4	1983.6	1976.5	1972.6	1970.2
17.5°	2040.1	2043.3	2041.7	2046.4	2054.2	2058.2	2053.5	2043.3	2036.2	2027.6	2022.8
20°	2110.8	2116.3	2117.9	2117.9	2124.9	2128.8	2121.8	2118.6	2107.6	2101.4	2097.4
22.5°	2190.9	2193.2	2198.0	2202.7	2209.7	2208.2	2205.8	2201.1	2190.9	2185.4	2179.1
25°	2281.2	2283.5	2295.3	2305.5	2307.9	2306.3	2303.2	2300.8	2291.4	2278.8	2274.1
27.5°	2386.4	2391.1	2406.8	2416.3	2416.3	2417.0	2410.8	2418.6	2398.2	2383.3	2381.7
30°	2518.3	2521.5	2534.8	2544.3	2539.5	2535.6	2534.0	2541.9	2519.9	2493.2	2486.9
32.5°	2648.7	2659.7	2671.5	2691.9	2675.4	2668.8	2666.8	2672.3	2647.1	2617.3	2608.6
35°	2788.5	2796.3	2818.3	2835.6	2820.7	2804.2	2811.2	2828.5	2798.7	2758.6	2757.1
37.5°	2943.2	2950.2	2978.5	2996.6	2985.6	2957.3	2969.1	2989.5	2959.7	2910.2	2900.0
40°	3104.1	3119.1	3154.4	3173.2	3155.2	3117.5	3139.5	3161.5	3134.8	3077.4	3054.7
42.5°	3284.8	3308.3	3359.4	3368.8	3334.2	3283.2	3321.7	3357.0	3338.2	3272.2	3263.6
45°	3496.0	3510.1	3572.9	3593.4	3545.5	3481.9	3529.8	3594.2	3580.0	3503.8	3487.4
47.5°	3732.4	3745.7	3810.9	3841.5	3781.0	3695.5	3781.8	3865.9	3857.2	3775.5	3767.7
50°	4011.9	4015.1	4105.4	4139.9	4079.4	4005.6	4082.6	4187.0	4152.5	4048.0	4046.5
52.5°	4318.2	4322.1	4436.0	4502.7	4468.9	4385.7	4476.8	4540.4	4452.4	4315.8	4305.6
55°	4583.6	4603.2	4758.7	4936.2	4982.5	4922.0	4949.5	4919.7	4702.9	4511.3	4481.5
57.5°	4691.9	4730.4	4966.8	5298.2	5599.7	5689.2	5477.2	5192.9	4802.7	4531.8	4502.7
60°	4427.3	4468.9	4835.7	5464.6	6234.2	6622.9	6026.9	5239.3	4575.7	4194.9	4149.3
62.5°	3545.5	3557.2	4096.7	5072.8	6604.1	7610.8	6258.6	4844.3	3915.3	3397.8	3379.8
64°	2551.3	2672.3	3243.9	4447.7	6442.3	7986.9	6125.1	4290.7	3180.3	2656.5	2571.7
65°	1908.2	1941.2	2614.9	3798.3	6157.3	7958.6	5865.9	3761.4	2633.8	2033.0	1938.8
67.5°	720.9	724.8	965.1	1893.3	4383.3	6847.5	4476.8	2046.4	1109.6	802.5	773.5
70°	299.2	304.7	354.2	636.8	1883.8	4396.7	2158.7	738.1	406.0	329.0	324.3
72.5°	219.1	222.2	237.1	282.7	579.5	1805.3	709.9	313.3	237.9	212.8	210.5
75°	172.0	173.5	184.5	208.1	270.1	500.2	295.3	215.2	181.4	163.3	161.8
77.5°	131.1	135.1	142.9	158.6	181.4	237.1	195.5	161.0	139.8	124.9	122.5
80°	90.3	95.0	109.9	116.2	121.7	153.9	133.5	121.7	109.2	91.1	85.6
82.5°	55.8	58.9	73.8	79.3	77.0	86.4	85.6	87.2	77.7	56.5	52.6
85°	29.1	30.6	40.0	41.6	38.5	35.3	44.0	51.0	47.9	32.2	31.4
87.5°	6.3	7.1	8.6	7.9	8.6	8.6	11.0	16.5	17.3	11.0	10.2
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)