

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: P453962

Luminaire Tested: **GALN-SA5A-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453962  
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-SA5A-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23969 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

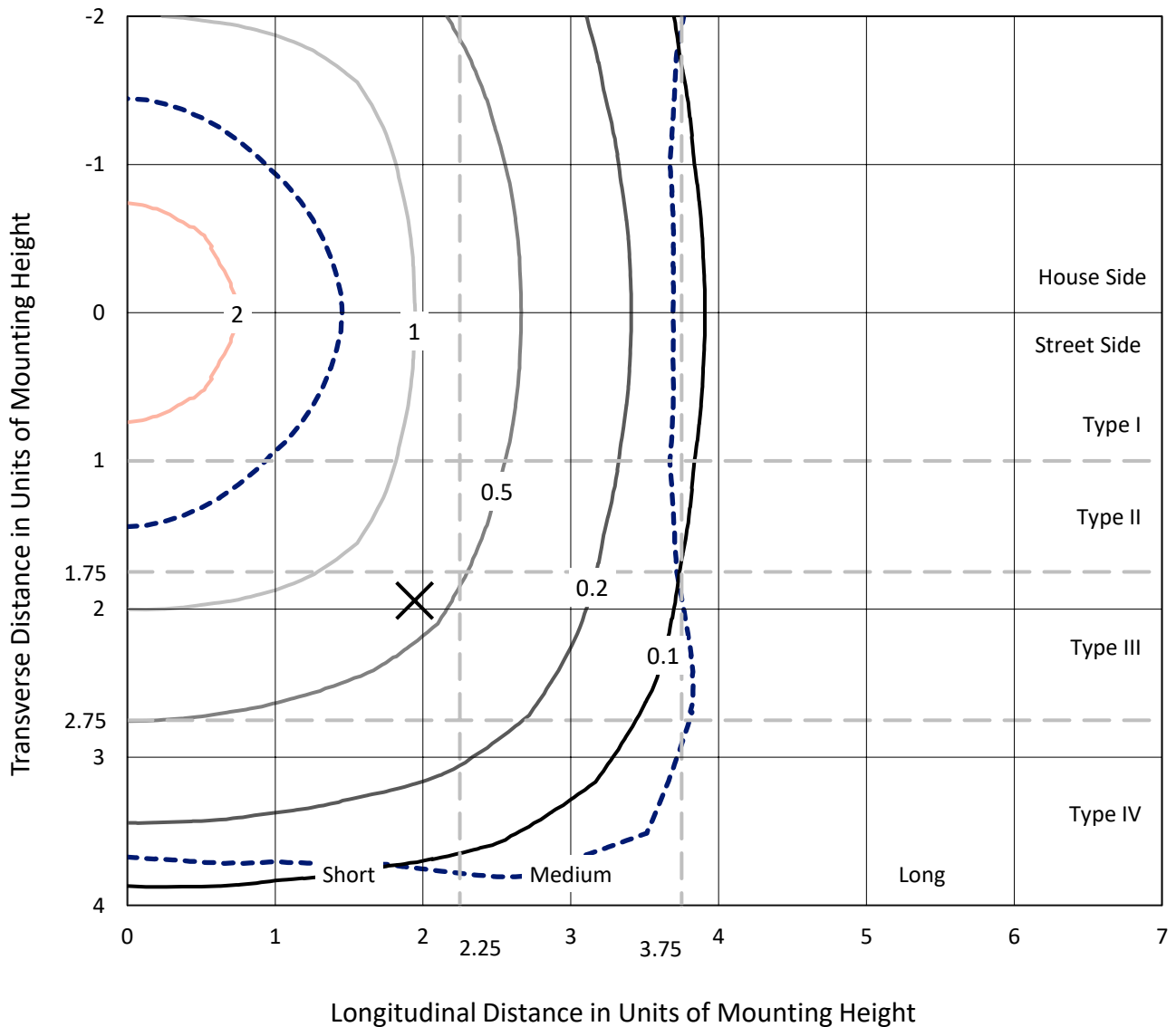
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

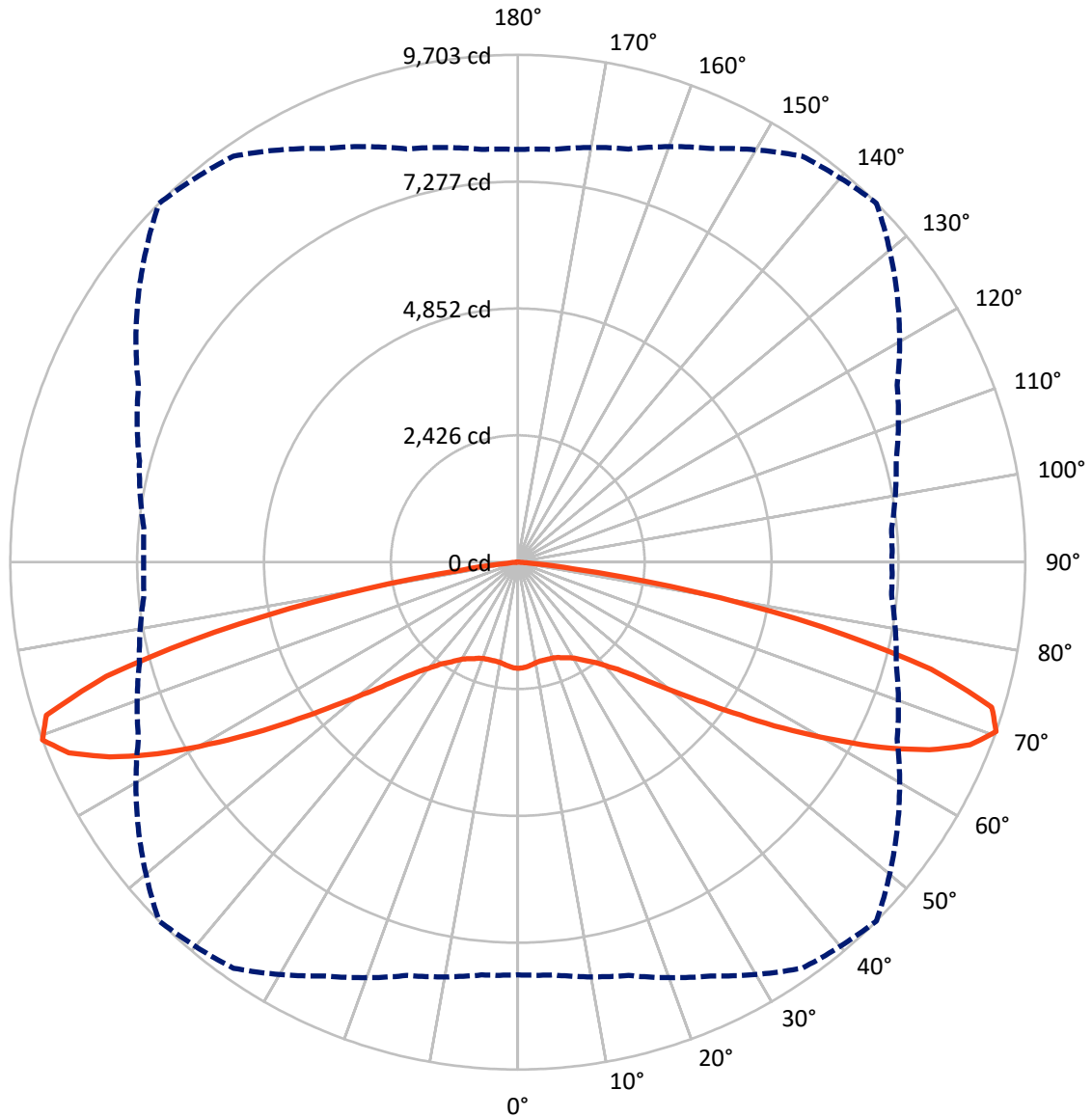
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11984.5	0.0	11984.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11984.5	0.0	11984.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23969.0	0.0	23969.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.8	0.8
10°-20°	555.6	2.3
20°-30°	946.6	3.9
30°-40°	1467.2	6.1
40°-50°	2469.5	10.3
50°-60°	4493.1	18.7
60°-70°	7606.7	31.7
70°-80°	5887.9	24.6
80°-90°	352.8	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°	23969.0	100.0
0°-180°	23969.0	100.0



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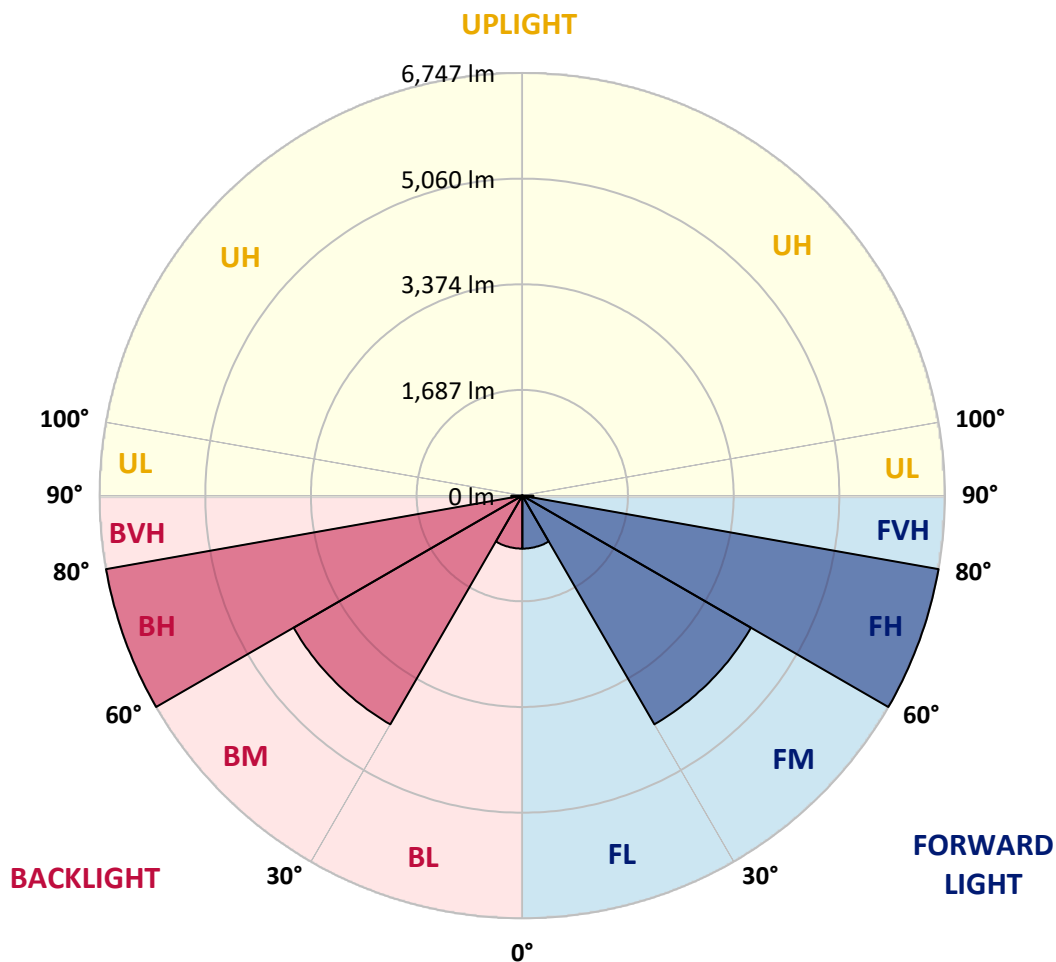
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.0	3.5			
FM	(30°-60°)	4214.9	17.6			
FH	(60°-80°)	6747.3	28.1			G3/7500
FVH	(80°-90°)	176.4	0.7			G2/225
BL	(0°-30°)	846.0	3.5	B2/1000		
BM	(30°-60°)	4214.9	17.6	B3/5000		
BH	(60°-80°)	6747.3	28.1	B5		G3/7500
BVH	(80°-90°)	176.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3	2029.3
2.5°	2024.2	2025.5	2025.5	2022.9	2021.7	2021.7	2020.4	2020.4	2024.2	2025.5	2026.7
5°	2006.5	2006.5	2006.5	2005.2	2002.7	2002.7	2000.2	2000.2	2001.4	2005.2	2002.7
7.5°	1982.4	1985.0	1985.0	1979.9	1976.1	1976.1	1974.8	1976.1	1977.4	1981.2	1979.9
10°	1974.8	1976.1	1969.8	1960.9	1954.6	1950.8	1952.0	1954.6	1960.9	1963.4	1964.7
12.5°	1979.9	1979.9	1968.5	1955.8	1944.5	1939.4	1938.1	1947.0	1958.4	1966.0	1968.5
15°	1986.2	1983.7	1969.8	1953.3	1941.9	1940.7	1939.4	1945.7	1962.2	1977.4	1978.6
17.5°	1990.0	1988.8	1971.0	1950.8	1944.5	1944.5	1943.2	1948.3	1966.0	1985.0	1986.2
20°	2002.7	1998.9	1978.6	1957.1	1952.0	1954.6	1950.8	1957.1	1976.1	1998.9	2004.0
22.5°	2028.0	2024.2	2004.0	1982.4	1979.9	1979.9	1978.6	1985.0	2005.2	2029.3	2033.1
25°	2058.4	2054.6	2035.6	2020.4	2022.9	2028.0	2025.5	2026.7	2043.2	2063.4	2069.8
27.5°	2098.9	2092.6	2076.1	2063.4	2071.0	2071.0	2071.0	2069.8	2079.9	2098.9	2105.2
30°	2148.3	2145.7	2128.0	2126.7	2133.1	2126.7	2126.7	2128.0	2129.3	2147.0	2153.3
32.5°	2212.8	2207.8	2198.9	2196.4	2214.1	2219.2	2201.4	2185.0	2193.8	2211.6	2215.4
35°	2319.2	2311.6	2298.9	2285.0	2298.9	2323.0	2285.0	2272.3	2295.1	2319.2	2321.7
37.5°	2463.5	2459.7	2439.4	2414.1	2412.8	2438.2	2398.9	2397.7	2440.7	2469.8	2473.6
40°	2644.5	2648.3	2623.0	2598.9	2586.3	2606.5	2576.1	2587.5	2629.3	2662.2	2659.7
42.5°	2899.0	2885.0	2845.8	2823.0	2809.1	2801.5	2793.9	2811.6	2858.4	2893.9	2921.7
45°	3196.4	3191.4	3142.0	3114.2	3083.8	3072.4	3069.9	3101.5	3158.5	3201.5	3205.3
47.5°	3533.2	3521.8	3490.1	3461.0	3449.6	3435.7	3423.0	3447.1	3504.1	3534.4	3543.3
50°	3880.0	3882.6	3882.6	3877.5	3888.9	3891.4	3857.3	3866.1	3897.8	3895.2	3892.7
52.5°	4276.3	4290.2	4356.0	4362.4	4416.8	4453.5	4391.5	4354.8	4343.4	4275.0	4280.1
55°	4742.1	4754.8	4853.5	4952.3	5099.1	5161.2	5030.8	4916.8	4835.8	4732.0	4737.1
57.5°	5323.2	5329.5	5423.2	5613.1	5846.0	5991.6	5762.5	5537.1	5372.6	5273.8	5234.6
60°	5948.6	5954.9	6091.6	6323.3	6685.3	6862.6	6579.0	6210.6	6003.0	5852.3	5862.5
62.5°	6699.2	6724.6	6847.4	7166.4	7605.6	7804.4	7428.4	6936.0	6654.9	6467.6	6475.2
65°	7503.1	7546.1	7680.3	8031.0	8436.1	8650.0	8189.2	7620.8	7271.4	7042.3	7066.4
67.5°	8024.7	8062.6	8256.3	8643.7	9148.8	9326.0	8731.0	8069.0	7632.2	7358.8	7308.2
70°	7891.7	7923.4	8181.6	8731.0	9479.2	9703.3	8860.2	8003.1	7489.2	7174.0	7153.7
72.5°	6966.4	6900.5	7277.8	8066.4	9102.0	9477.9	8453.8	7309.4	6662.5	6338.5	6300.5
75°	4616.8	4759.9	5316.9	6246.0	7700.6	8166.4	7215.7	5868.8	5054.8	4785.2	4743.4
77.5°	1543.2	1653.3	2148.3	3540.8	5249.8	5949.8	5257.4	3838.3	2715.4	2187.5	2197.6
80°	408.9	403.8	522.8	973.5	2268.5	3445.8	2640.7	1300.1	711.4	515.2	488.6
82.5°	146.8	164.6	211.4	269.6	601.3	1071.0	755.8	364.6	267.1	197.5	191.2
85°	64.6	63.3	91.1	107.6	150.6	200.0	177.2	154.4	135.5	89.9	83.6
87.5°	13.9	13.9	21.5	16.5	26.6	26.6	32.9	39.2	40.5	26.6	21.5
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)