

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: P452105

Luminaire Tested: **GALN-SA3A-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452105  
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-SA3A-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14247 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

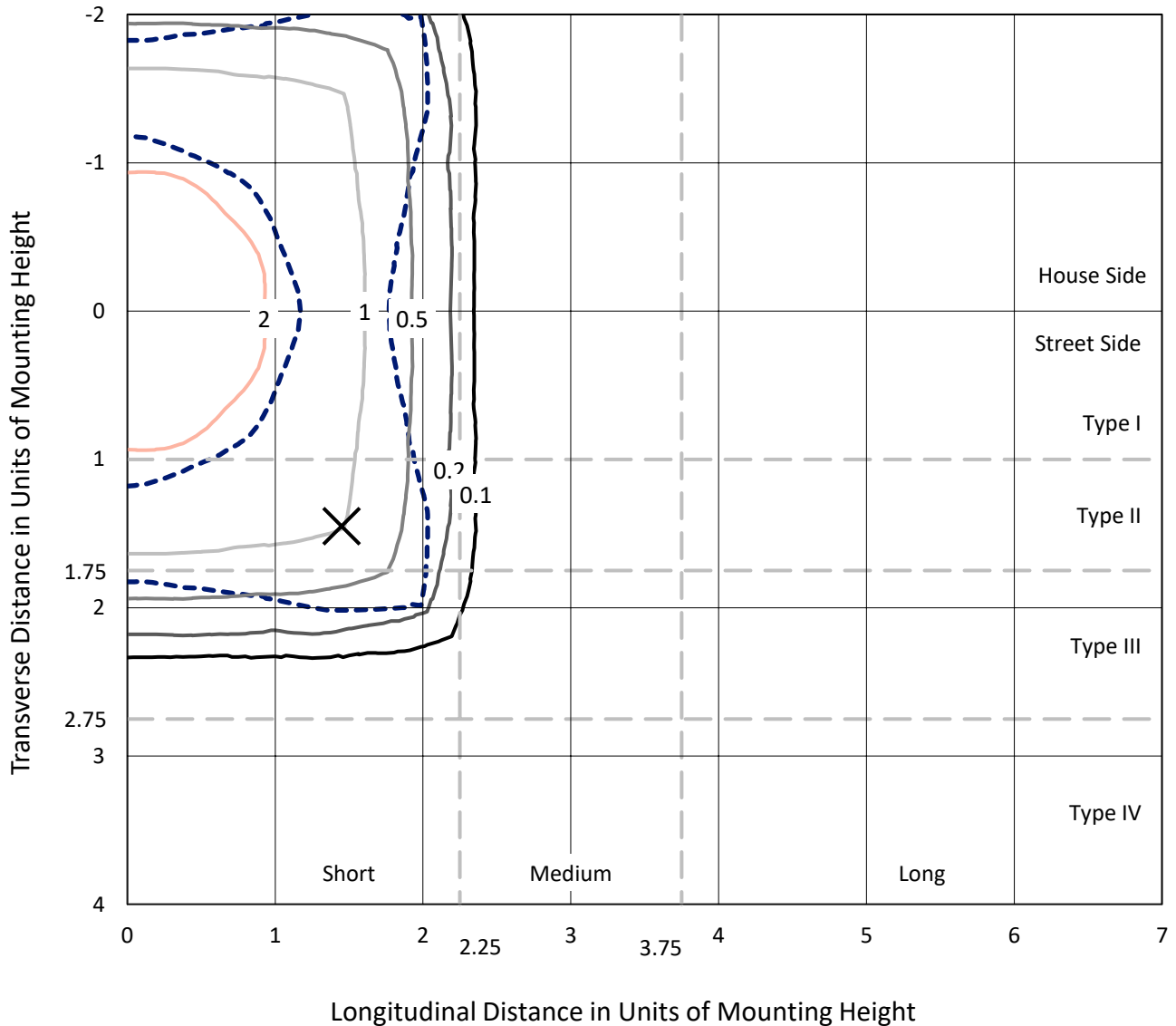
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

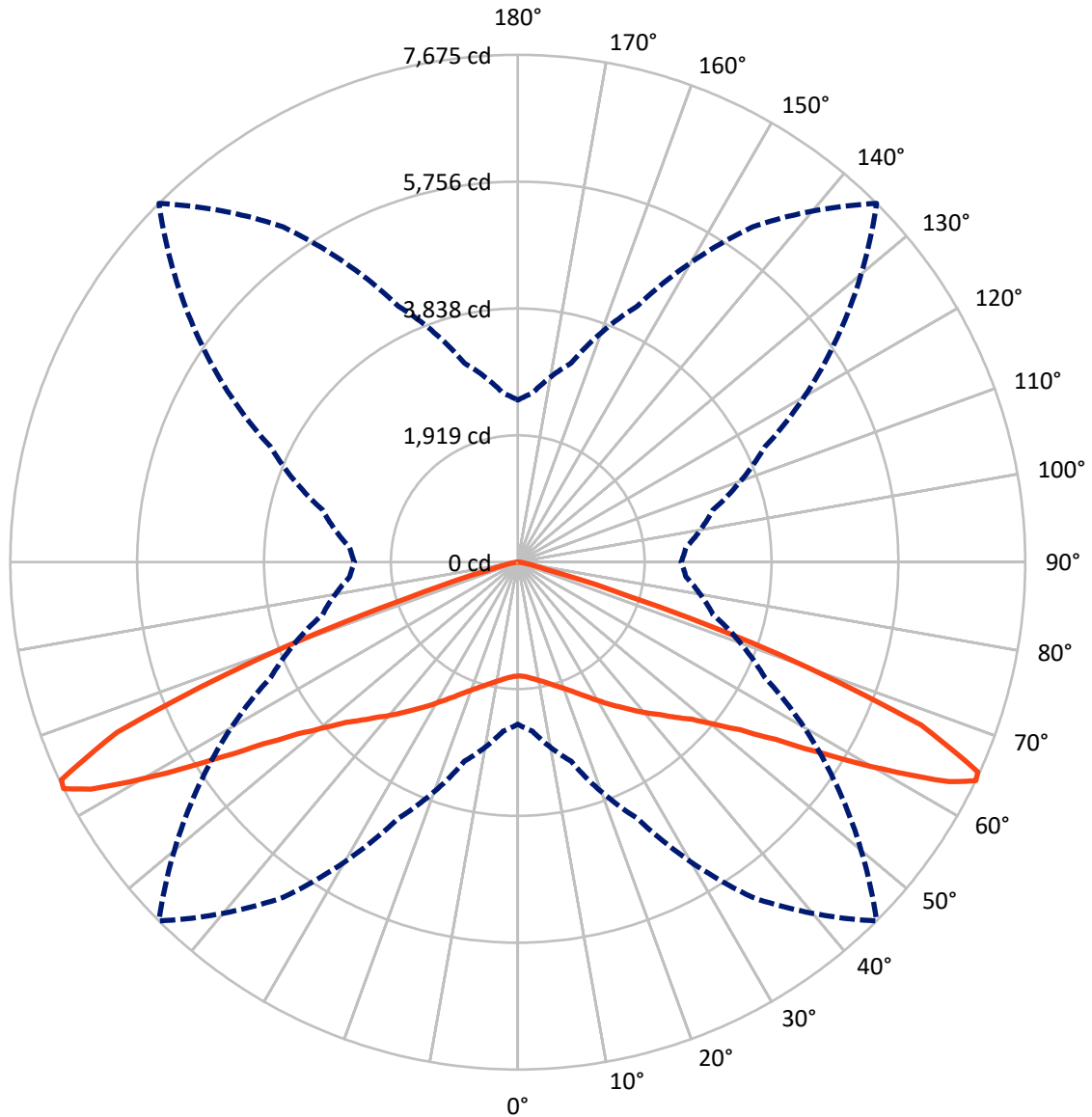
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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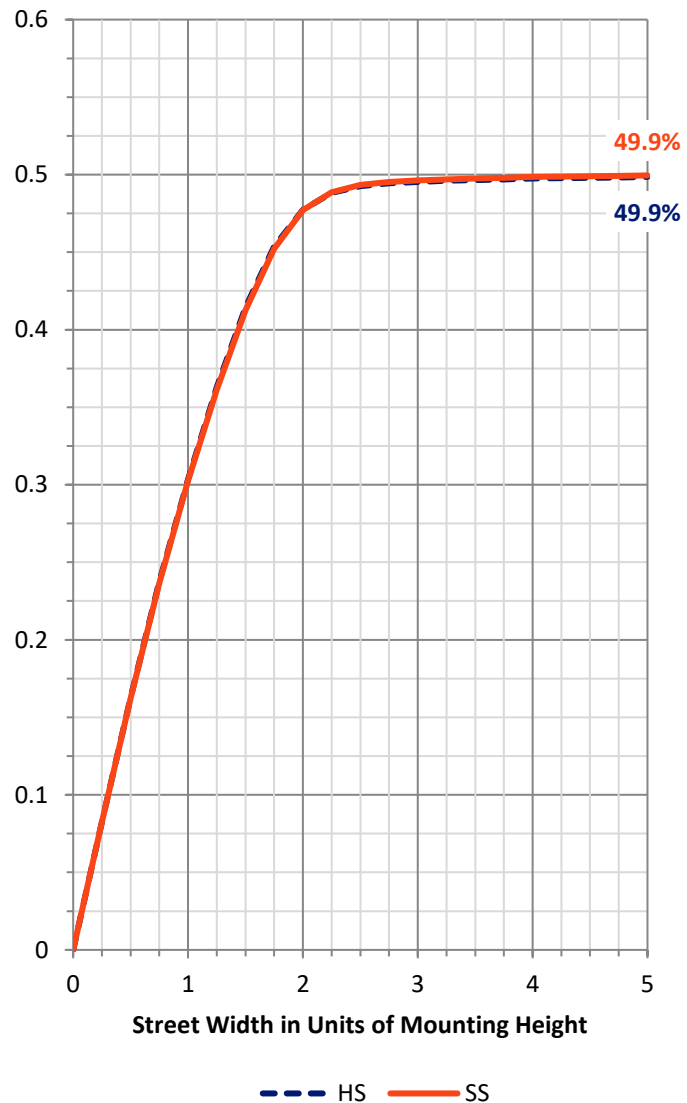
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7123.5	0.0	7123.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7123.5	0.0	7123.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14247.0	0.0	14247.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	1.2
10°-20°	545.7	3.8
20°-30°	1031.2	7.2
30°-40°	1707.8	12.0
40°-50°	2666.1	18.7
50°-60°	4121.8	28.9
60°-70°	3554.2	24.9
70°-80°	402.8	2.8
80°-90°	48.3	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°	14247.0	100.0
0°-180°	14247.0	100.0



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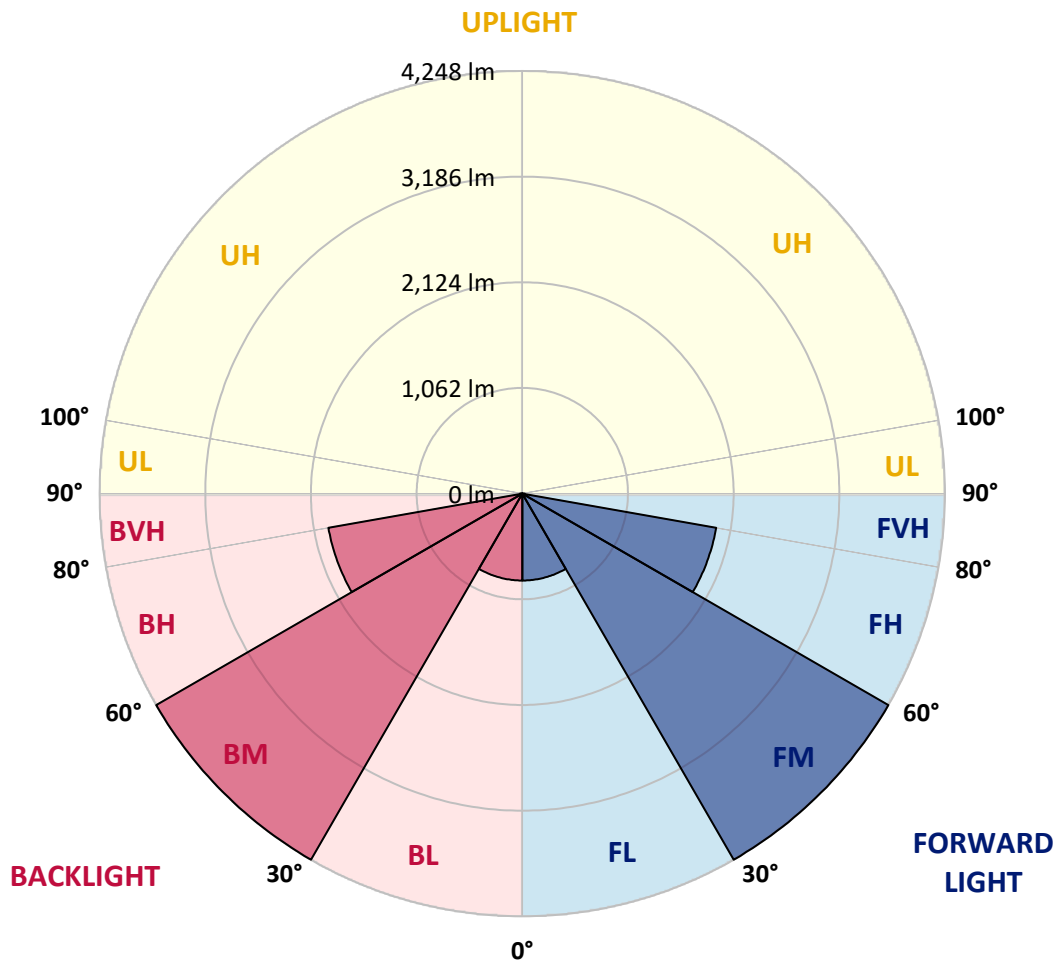
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.0	6.1			
FM (30°-60°)	4247.9	29.8			
FH (60°-80°)	1978.5	13.9			G2/5000
FVH (80°-90°)	24.1	0.2			G1/100
BL (0°-30°)	873.0	6.1	B2/1000		
BM (30°-60°)	4247.9	29.8	B3/5000		
BH (60°-80°)	1978.5	13.9	B3/2500		G2/5000
BVH (80°-90°)	24.1	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°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1728.8	1732.6	1729.5	1728.8	1728.0	1728.0	1728.0	1728.8	1731.8	1734.1	1732.6
5°	1750.7	1753.7	1752.2	1751.4	1750.7	1751.4	1749.9	1749.2	1751.4	1751.4	1750.7
7.5°	1777.8	1781.6	1780.1	1781.6	1782.4	1783.1	1779.3	1776.3	1775.6	1777.8	1776.3
10°	1814.8	1817.8	1818.6	1819.3	1820.8	1820.1	1815.6	1810.3	1809.5	1808.8	1808.0
12.5°	1856.3	1858.6	1859.3	1862.3	1864.6	1865.4	1860.1	1855.6	1848.0	1849.5	1846.5
15°	1903.1	1907.6	1906.9	1911.4	1917.4	1918.9	1913.7	1906.1	1899.3	1895.5	1893.3
17.5°	1960.4	1963.5	1962.0	1966.5	1974.0	1977.8	1973.3	1963.5	1956.7	1948.4	1943.8
20°	2028.4	2033.6	2035.1	2035.1	2041.9	2045.7	2038.9	2035.9	2025.3	2019.3	2015.5
22.5°	2105.3	2107.6	2112.1	2116.6	2123.4	2121.9	2119.7	2115.1	2105.3	2100.0	2094.0
25°	2192.1	2194.4	2205.7	2215.5	2217.8	2216.3	2213.2	2211.0	2201.9	2189.8	2185.3
27.5°	2293.2	2297.7	2312.8	2321.9	2321.9	2322.6	2316.6	2324.2	2304.5	2290.2	2288.7
30°	2420.0	2423.0	2435.8	2444.9	2440.4	2436.6	2435.1	2442.6	2421.5	2395.8	2389.8
32.5°	2545.3	2555.8	2567.1	2586.8	2570.9	2564.1	2562.6	2567.9	2543.7	2515.1	2506.8
35°	2679.6	2687.1	2708.2	2724.8	2710.5	2694.7	2701.5	2718.1	2689.4	2650.9	2649.4
37.5°	2828.2	2835.0	2862.2	2879.5	2869.0	2841.8	2853.1	2872.7	2844.1	2796.5	2786.7
40°	2982.9	2997.3	3031.2	3049.3	3032.0	2995.7	3016.9	3038.0	3012.3	2957.3	2935.4
42.5°	3156.5	3179.1	3228.2	3237.2	3204.0	3155.0	3191.9	3225.9	3207.8	3144.4	3136.1
45°	3359.5	3373.0	3433.4	3453.0	3407.0	3345.9	3391.9	3453.8	3440.2	3367.0	3351.2
47.5°	3586.6	3599.4	3662.1	3691.5	3633.4	3551.1	3634.1	3714.9	3706.6	3628.1	3620.6
50°	3855.2	3858.3	3945.0	3978.2	3920.1	3849.2	3923.1	4023.5	3990.3	3889.9	3888.4
52.5°	4149.5	4153.3	4262.7	4326.9	4294.4	4214.4	4302.0	4363.1	4278.6	4147.3	4137.5
55°	4404.6	4423.4	4572.9	4743.4	4787.9	4729.8	4756.2	4727.5	4519.3	4335.2	4306.5
57.5°	4508.7	4545.7	4772.8	5091.3	5381.0	5467.1	5263.3	4990.1	4615.1	4354.8	4326.9
60°	4254.4	4294.4	4646.8	5251.2	5990.7	6364.3	5791.5	5034.7	4397.0	4031.1	3987.3
62.5°	3407.0	3418.3	3936.7	4874.7	6346.2	7313.6	6014.1	4655.1	3762.4	3265.1	3247.8
64°	2451.7	2567.9	3117.2	4274.0	6190.7	7675.0	5885.9	4123.1	3056.1	2552.8	2471.3
65°	1833.7	1865.4	2512.8	3650.0	5916.8	7647.8	5636.8	3614.5	2530.9	1953.7	1863.1
67.5°	692.7	696.5	927.4	1819.3	4212.2	6580.1	4302.0	1966.5	1066.2	771.2	743.3
70°	287.5	292.8	340.3	612.0	1810.3	4225.0	2074.4	709.3	390.1	316.2	311.6
72.5°	210.5	213.6	227.9	271.7	556.9	1734.8	682.2	301.1	228.6	204.5	202.2
75°	165.3	166.8	177.3	200.0	259.6	480.7	283.7	206.8	174.3	157.0	155.4
77.5°	126.0	129.8	137.3	152.4	174.3	227.9	187.9	154.7	134.3	120.0	117.7
80°	86.8	91.3	105.6	111.7	117.0	147.9	128.3	117.0	104.9	87.5	82.3
82.5°	53.6	56.6	70.9	76.2	74.0	83.0	82.3	83.8	74.7	54.3	50.6
85°	27.9	29.4	38.5	40.0	37.0	34.0	42.3	49.0	46.0	30.9	30.2
87.5°	6.0	6.8	8.3	7.5	8.3	8.3	10.6	15.8	16.6	10.6	9.8
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)