

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: P651764

Luminaire Tested: **GALN-SA3A-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10134 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

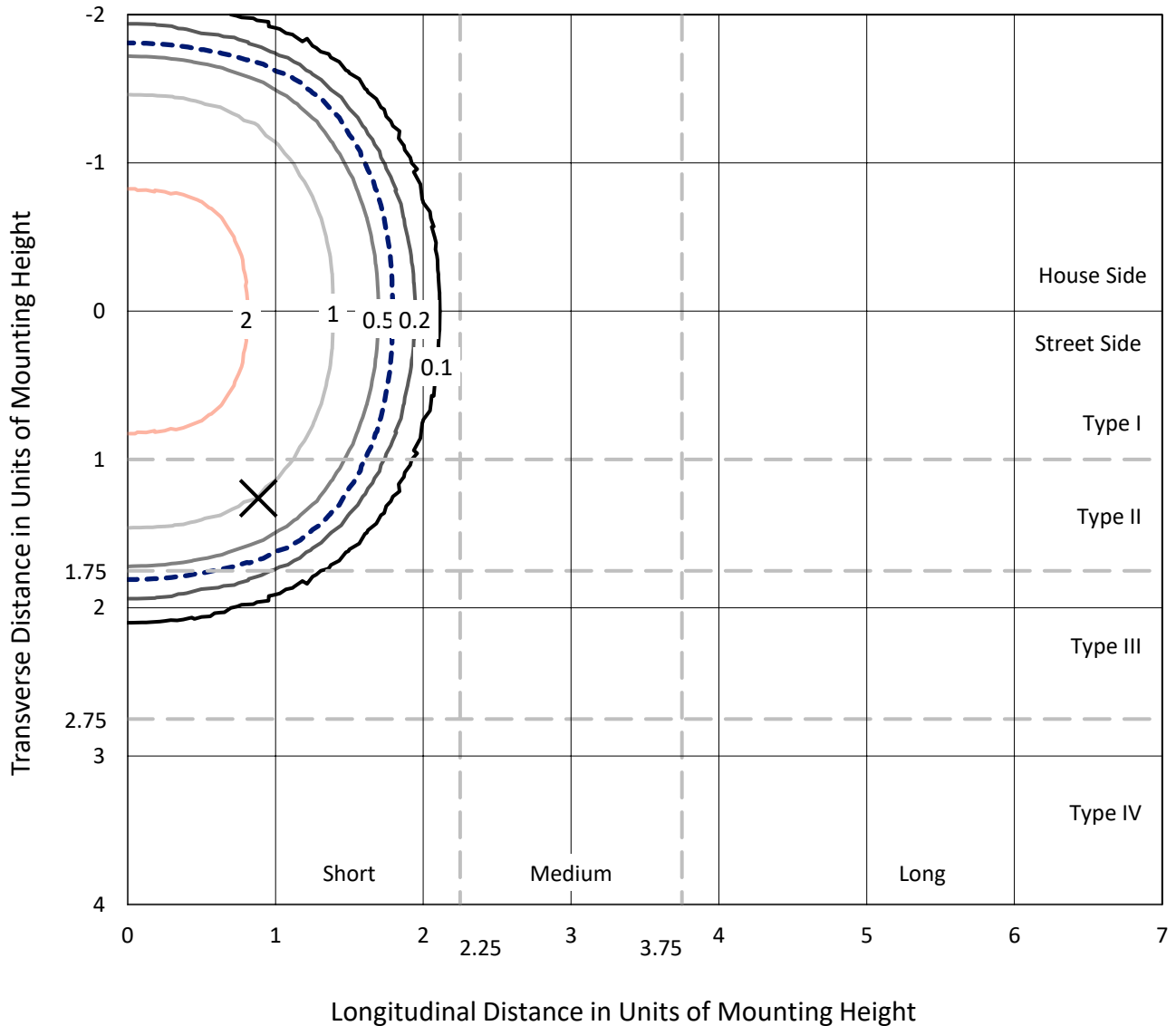
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

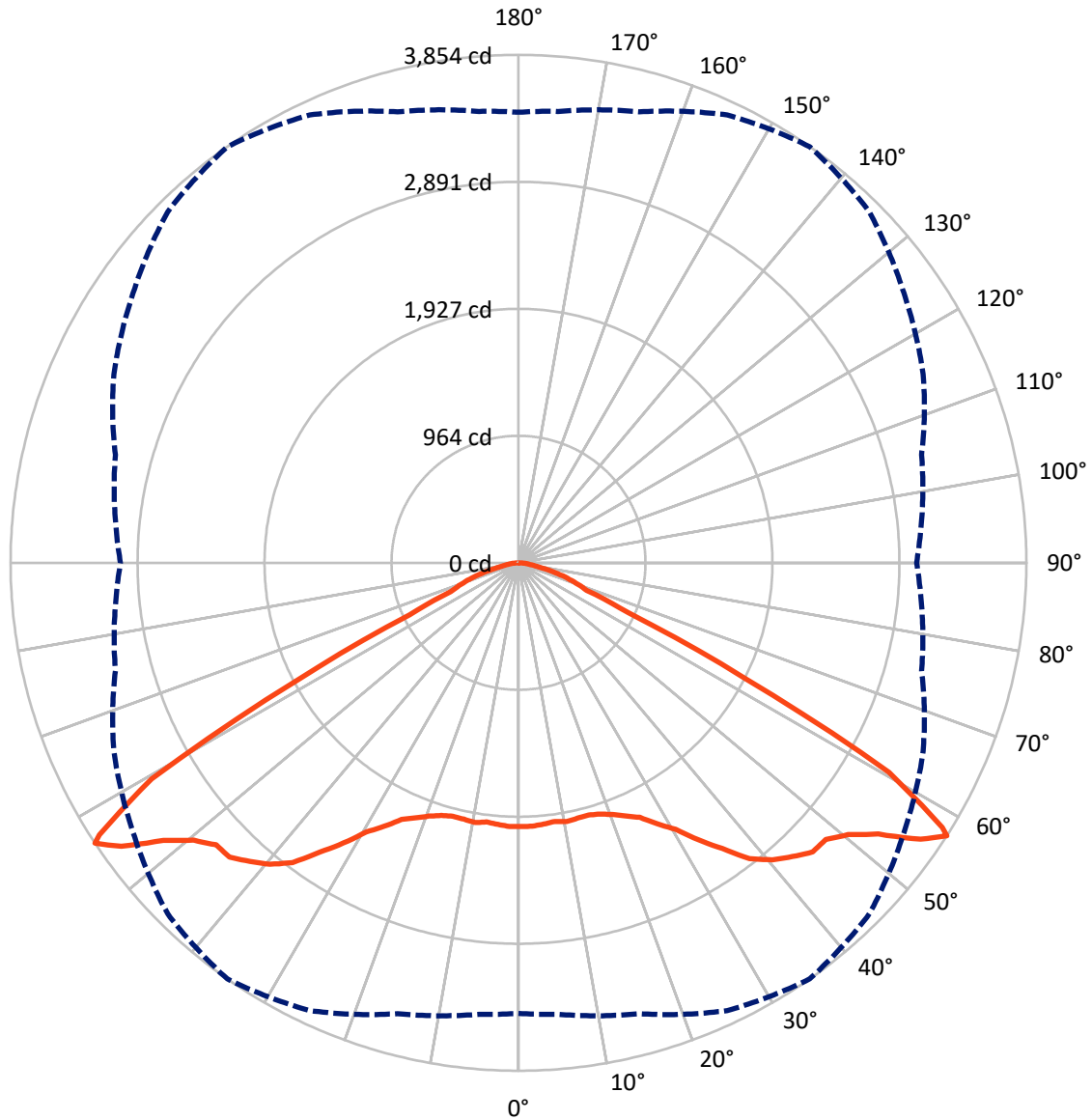
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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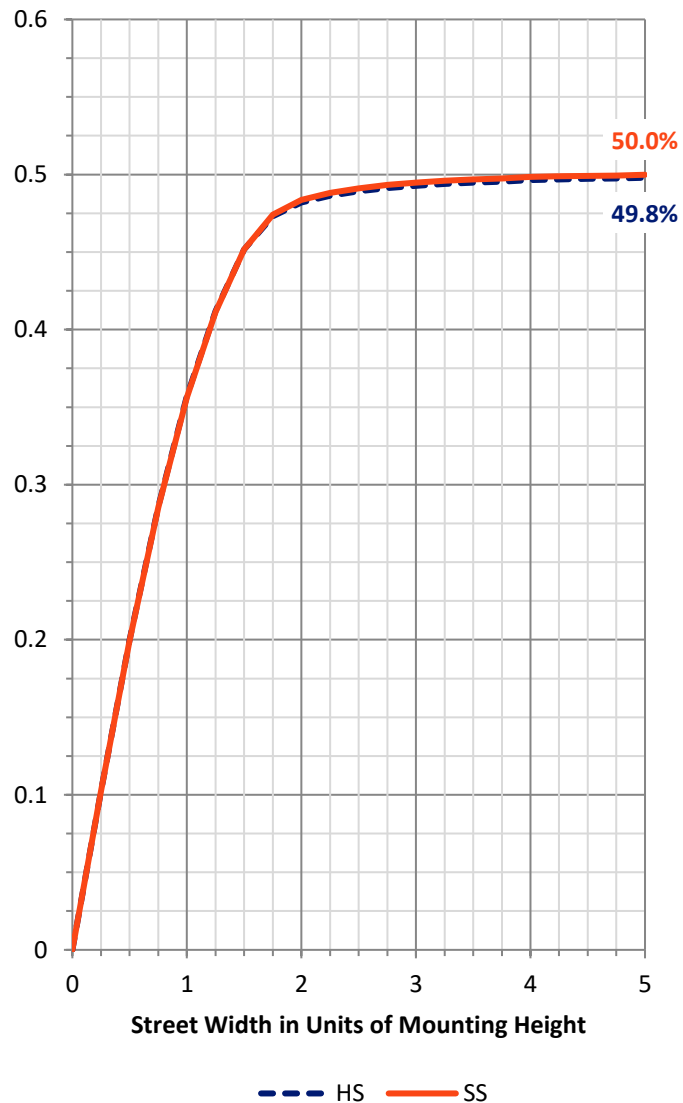
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5067.0	0.0	5067.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5067.0	0.0	5067.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10134.0	0.0	10134.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	1.9
10°-20°	562.0	5.5
20°-30°	981.4	9.7
30°-40°	1608.1	15.9
40°-50°	2357.9	23.3
50°-60°	2970.0	29.3
60°-70°	1117.0	11.0
70°-80°	297.0	2.9
80°-90°	50.9	0.5
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°	10134.0	100.0
0°-180°	10134.0	100.0

**Coefficient of Utilization**



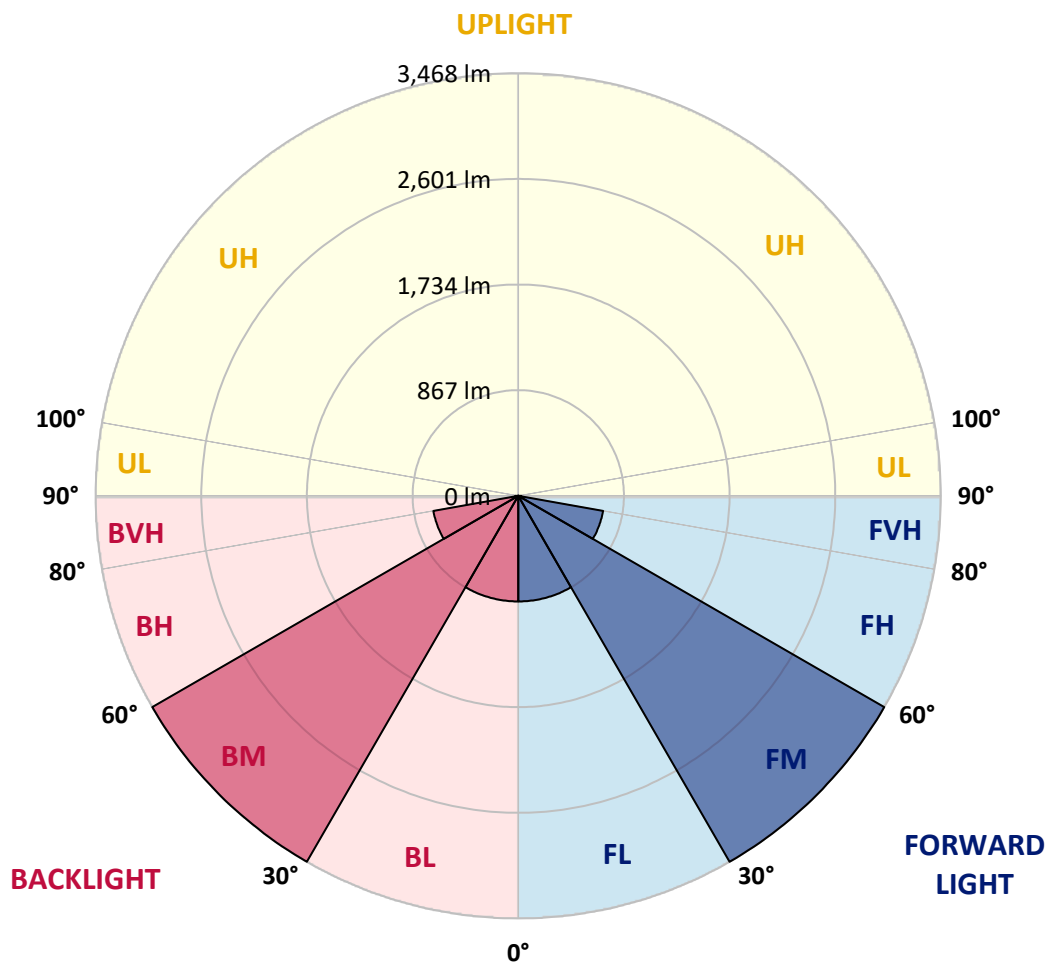
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.6	8.6			
FM (30°-60°)	3468.0	34.2			
FH (60°-80°)	707.0	7.0			G1/1800
FVH (80°-90°)	25.5	0.3			G1/100
BL (0°-30°)	866.6	8.6	B2/1000		
BM (30°-60°)	3468.0	34.2	B3/5000		
BH (60°-80°)	707.0	7.0	B2/1000		G1/1800
BVH (80°-90°)	25.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	1991.4	2011.4	2002.7	1997.6	2001.4	1995.2	1985.2	1996.4	1993.9	1983.9	1980.1
5°	1986.4	2001.4	1991.4	2001.4	1991.4	2008.9	2003.9	1985.2	2007.6	1986.4	1993.9
7.5°	1982.7	1987.7	1990.1	1985.2	1981.4	2002.7	1991.4	1982.7	1970.2	1966.4	1972.6
10°	1973.9	1986.4	1967.7	1992.7	1997.6	1982.7	1982.7	1966.4	1956.4	1950.2	1971.5
12.5°	1996.4	1975.2	1972.6	1985.2	1988.9	1995.2	1977.7	1968.9	1950.2	1952.7	1948.9
15°	1970.2	1979.0	1980.1	1982.7	1986.4	2001.4	1985.2	1966.4	1958.9	1932.7	1935.2
17.5°	1980.1	1971.5	1980.1	2008.9	2003.9	2015.1	1997.6	1968.9	1951.5	1936.5	1956.4
20°	1997.6	1993.9	1997.6	2032.6	2038.8	2048.8	2033.9	2007.6	1973.9	1956.4	1966.4
22.5°	2016.4	2013.9	2016.4	2050.1	2086.3	2098.8	2083.8	2022.6	2005.1	1972.6	1961.5
25°	2050.1	2052.6	2078.8	2116.3	2140.0	2163.7	2136.2	2092.6	2036.4	2016.4	1992.7
27.5°	2125.0	2131.3	2146.2	2201.1	2242.4	2263.6	2224.9	2165.0	2130.0	2088.8	2082.6
30°	2217.4	2217.4	2243.6	2291.1	2347.2	2379.7	2332.3	2261.1	2218.6	2196.2	2182.5
32.5°	2339.7	2326.0	2336.0	2419.6	2507.0	2534.5	2470.9	2383.5	2316.0	2286.1	2276.1
35°	2444.6	2453.4	2475.8	2565.7	2663.1	2726.8	2626.9	2513.3	2444.6	2417.2	2412.2
37.5°	2580.7	2595.7	2606.9	2730.6	2847.9	2871.6	2775.5	2684.4	2600.7	2578.3	2565.7
40°	2773.0	2763.0	2766.7	2857.9	2964.0	2979.0	2884.1	2819.2	2750.5	2736.8	2736.8
42.5°	2931.6	2920.3	2932.8	2966.5	3047.7	3036.4	2984.0	2936.5	2907.8	2892.9	2907.8
45°	3027.7	3025.2	3047.7	3072.7	3130.0	3092.6	3051.4	3058.9	3031.5	3006.5	3005.2
47.5°	3132.6	3116.3	3143.8	3181.3	3137.6	3120.1	3117.6	3133.8	3125.1	3081.4	3067.6
50°	3183.8	3177.6	3221.2	3264.9	3241.2	3201.3	3210.0	3236.2	3123.8	3065.2	3031.5
52.5°	3321.1	3322.4	3406.0	3429.7	3419.8	3361.1	3379.8	3308.6	3176.3	3093.9	3097.6
55°	3537.1	3528.3	3622.0	3691.9	3703.2	3628.2	3538.3	3438.4	3272.4	3188.7	3163.8
57°	3418.5	3438.4	3542.1	3749.3	3854.2	3765.6	3569.5	3387.3	3166.3	3065.2	3020.2
57.5°	3259.9	3292.3	3472.2	3680.7	3790.6	3783.1	3530.9	3292.3	3095.1	2937.8	2941.6
60°	2388.4	2394.7	2557.0	2887.8	3231.2	3238.7	2931.6	2615.7	2395.9	2224.9	2248.6
62.5°	1259.7	1288.5	1353.4	1619.3	1916.5	1988.9	1802.9	1640.5	1450.8	1321.0	1333.4
65°	666.7	663.0	694.2	769.1	915.2	952.6	927.6	799.0	732.9	711.7	712.9
67.5°	541.9	548.1	544.4	548.1	558.1	574.3	570.6	575.6	579.3	585.6	584.3
70°	459.4	459.4	462.0	463.2	463.2	470.7	479.5	495.7	496.9	503.2	505.7
72.5°	362.1	359.6	363.3	372.1	373.3	379.5	392.1	402.0	405.8	405.8	398.3
75°	246.0	248.4	253.5	261.0	268.4	279.6	289.6	295.9	298.4	294.7	290.9
77.5°	138.6	141.1	144.8	156.1	164.8	174.8	186.0	192.3	198.5	199.7	192.3
80°	82.4	82.4	88.6	97.4	107.4	117.4	127.3	134.8	137.3	137.3	133.6
82.5°	50.0	51.2	56.2	64.9	73.7	79.9	88.6	94.9	99.9	98.6	96.1
85°	26.2	26.2	31.2	38.7	44.9	51.2	51.2	47.4	44.9	38.7	36.2
87.5°	8.7	7.5	10.0	10.0	8.7	10.0	10.0	11.3	11.3	11.3	11.3
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)