

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: P527910

Luminaire Tested: **GALN-SA3A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527910
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-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 10077 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

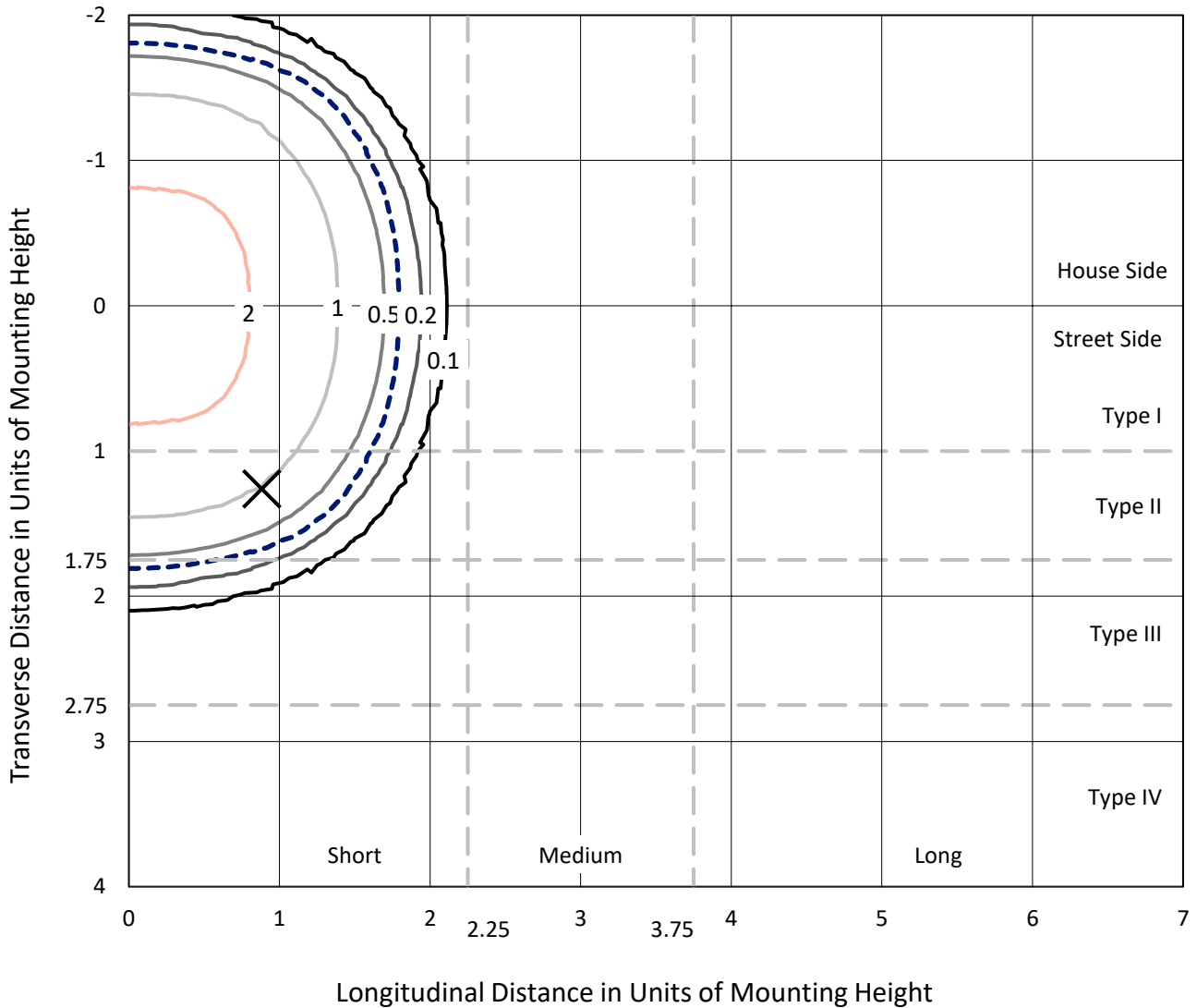
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

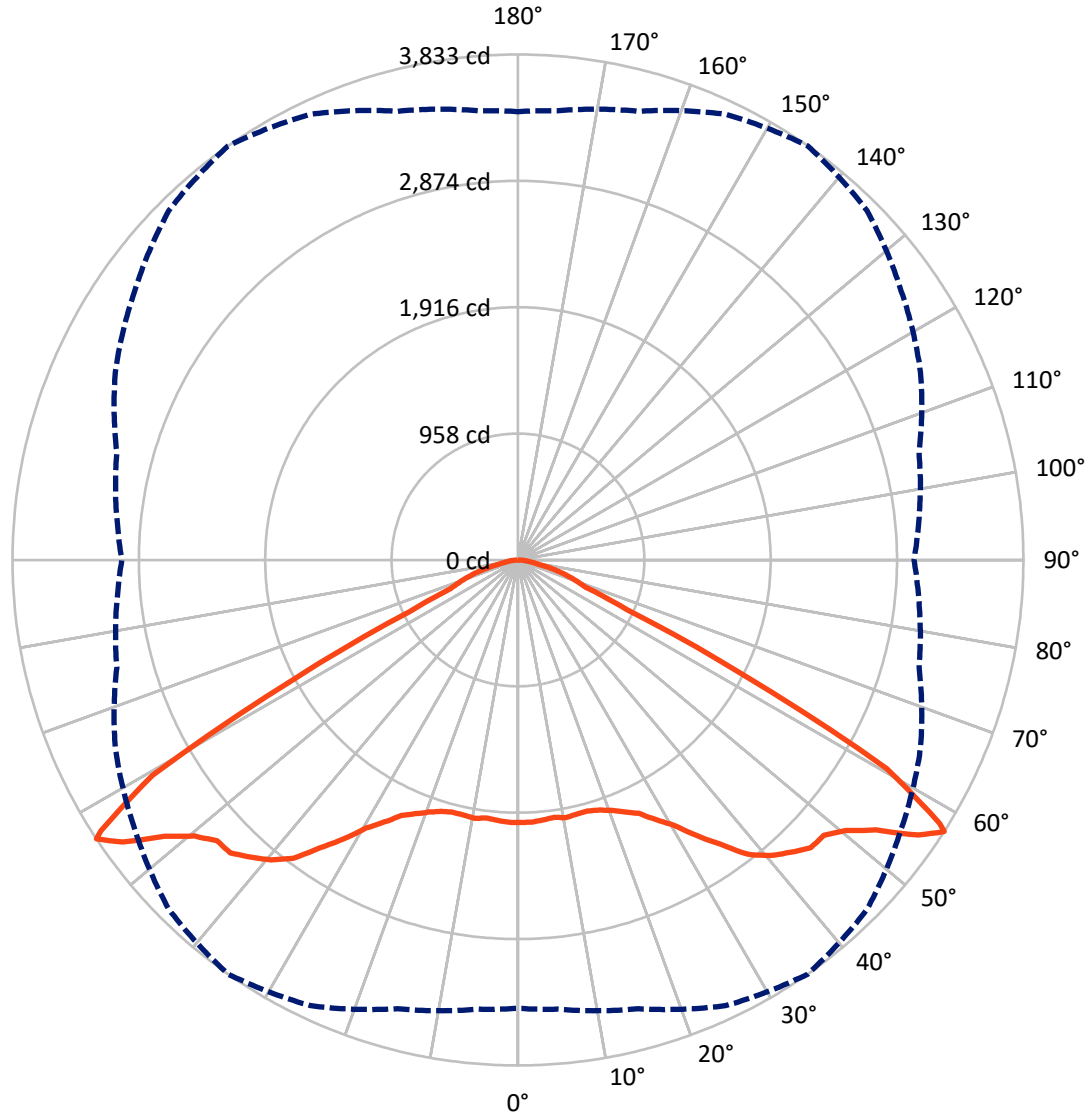
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	5038.5	0.0	5038.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5038.5	0.0	5038.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10077.0	0.0	10077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.9
10°-20°	558.8	5.5
20°-30°	975.9	9.7
30°-40°	1599.1	15.9
40°-50°	2344.6	23.3
50°-60°	2953.2	29.3
60°-70°	1110.7	11.0
70°-80°	295.3	2.9
80°-90°	50.6	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°	10077.0	100.0
0°-180°	10077.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527910

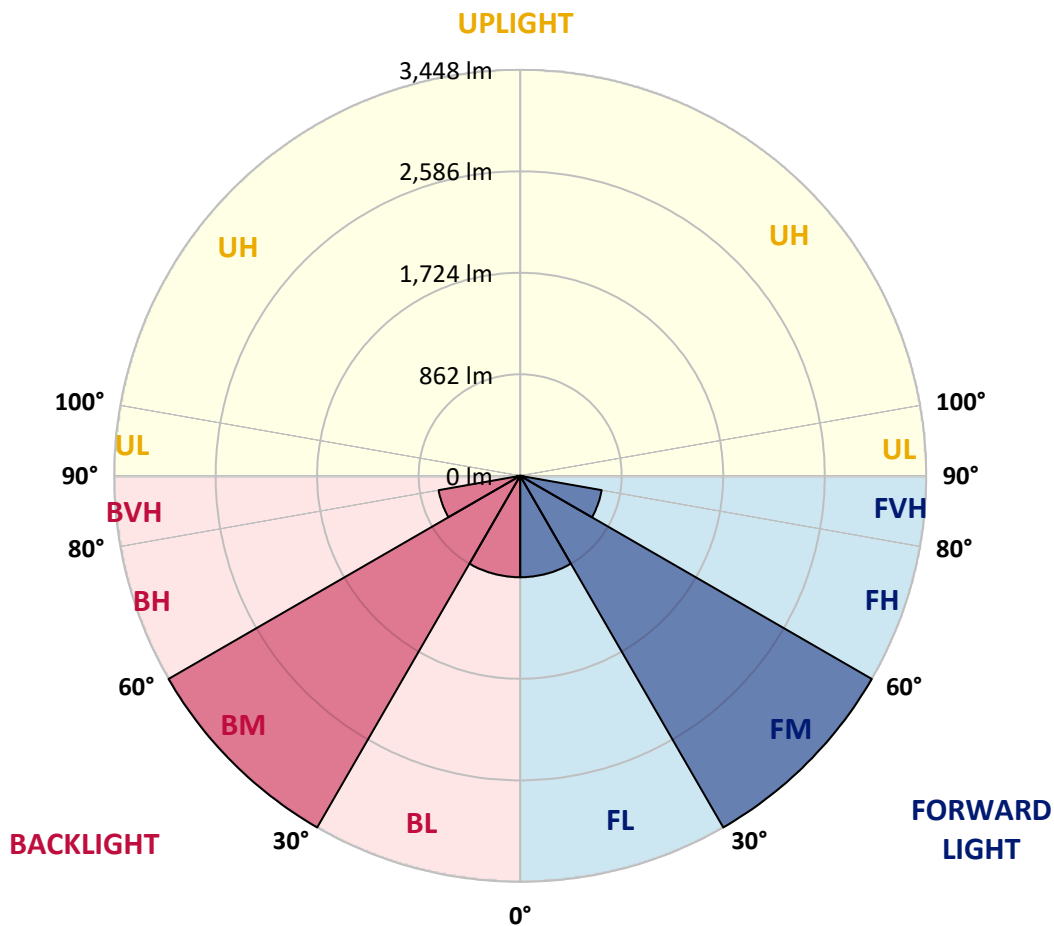
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.7	8.6			
FM (30°-60°)	3448.5	34.2			
FH (60°-80°)	703.0	7.0			G1/1800
FVH (80°-90°)	25.3	0.3			G1/100
BL (0°-30°)	861.7	8.6	B2/1000		
BM (30°-60°)	3448.5	34.2	B3/5000		
BH (60°-80°)	703.0	7.0	B2/1000		G1/1800
BVH (80°-90°)	25.3	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°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1980.2	2000.1	1991.4	1986.4	1990.1	1983.9	1974.0	1985.2	1982.7	1972.8	1969.0
5°	1975.2	1990.1	1980.2	1990.1	1980.2	1997.6	1992.6	1974.0	1996.3	1975.2	1982.7
7.5°	1971.5	1976.5	1979.0	1974.0	1970.3	1991.4	1980.2	1971.5	1959.1	1955.4	1961.6
10°	1962.8	1975.2	1956.6	1981.4	1986.4	1971.5	1971.5	1955.4	1945.4	1939.2	1960.3
12.5°	1985.2	1964.1	1961.6	1974.0	1977.7	1983.9	1966.5	1957.9	1939.2	1941.7	1938.0
15°	1959.1	1967.8	1969.0	1971.5	1975.2	1990.1	1974.0	1955.4	1947.9	1921.9	1924.3
17.5°	1969.0	1960.3	1969.0	1997.6	1992.6	2003.8	1986.4	1957.9	1940.5	1925.6	1945.4
20°	1986.4	1982.7	1986.4	2021.2	2027.4	2037.3	2022.4	1996.3	1962.8	1945.4	1955.4
22.5°	2005.0	2002.5	2005.0	2038.6	2074.6	2087.0	2072.1	2011.2	1993.9	1961.6	1950.4
25°	2038.6	2041.0	2067.1	2104.4	2127.9	2151.5	2124.2	2080.8	2024.9	2005.0	1981.4
27.5°	2113.0	2119.2	2134.1	2188.8	2229.7	2250.8	2212.4	2152.8	2118.0	2077.0	2070.8
30°	2204.9	2204.9	2231.0	2278.2	2334.0	2366.3	2319.1	2248.4	2206.2	2183.8	2170.2
32.5°	2326.6	2312.9	2322.9	2406.0	2492.9	2520.3	2456.9	2370.0	2303.0	2273.2	2263.3
35°	2430.9	2439.6	2461.9	2551.3	2648.1	2711.4	2612.1	2499.2	2430.9	2403.6	2398.6
37.5°	2566.2	2581.1	2592.3	2715.2	2831.9	2855.5	2759.9	2669.2	2586.1	2563.7	2551.3
40°	2757.4	2747.5	2751.2	2841.8	2947.3	2962.2	2867.9	2803.3	2735.0	2721.4	2721.4
42.5°	2915.1	2903.9	2916.3	2949.8	3030.5	3019.3	2967.2	2920.0	2891.5	2876.6	2891.5
45°	3010.7	3008.2	3030.5	3055.3	3112.5	3075.2	3034.2	3041.7	3014.4	2989.5	2988.3
47.5°	3114.9	3098.8	3126.1	3163.4	3119.9	3102.5	3100.0	3116.2	3107.5	3064.0	3050.4
50°	3165.8	3159.6	3203.1	3246.5	3222.9	3183.2	3191.9	3218.0	3106.2	3047.9	3014.4
52.5°	3302.4	3303.6	3386.8	3410.4	3400.5	3342.1	3360.8	3290.0	3158.4	3076.5	3080.2
55°	3517.2	3508.5	3601.6	3671.1	3682.3	3607.8	3518.4	3419.1	3254.0	3170.8	3146.0
57°	3399.2	3419.1	3522.2	3728.2	3832.5	3744.4	3549.5	3368.2	3148.5	3047.9	3003.2
57.5°	3241.6	3273.8	3452.6	3660.0	3769.2	3761.8	3511.0	3273.8	3077.7	2921.3	2925.0
60°	2375.0	2381.2	2542.6	2871.6	3213.0	3220.5	2915.1	2601.0	2382.4	2212.4	2236.0
62.5°	1252.7	1281.2	1345.8	1610.2	1905.7	1977.7	1792.7	1631.3	1442.6	1313.5	1325.9
65°	663.0	659.2	690.3	764.8	910.0	947.3	922.4	794.6	728.8	707.7	708.9
67.5°	538.8	545.0	541.3	545.0	555.0	571.1	567.4	572.3	576.1	582.3	581.0
70°	456.9	456.9	459.4	460.6	460.6	468.0	476.7	492.9	494.1	500.3	502.8
72.5°	360.0	357.6	361.3	370.0	371.2	377.4	389.8	399.8	403.5	403.5	396.0
75°	244.6	247.1	252.0	259.5	266.9	278.1	288.0	294.2	296.7	293.0	289.3
77.5°	137.8	140.3	144.0	155.2	163.9	173.8	185.0	191.2	197.4	198.6	191.2
80°	81.9	81.9	88.1	96.8	106.8	116.7	126.6	134.1	136.6	136.6	132.8
82.5°	49.7	50.9	55.9	64.6	73.2	79.5	88.1	94.4	99.3	98.1	95.6
85°	26.1	26.1	31.0	38.5	44.7	50.9	50.9	47.2	44.7	38.5	36.0
87.5°	8.7	7.4	9.9	9.9	8.7	9.9	9.9	11.2	11.2	11.2	11.2
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)