

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: P527624

Luminaire Tested: **GALN-SA2C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527624
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-SA2C-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9916 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 108
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



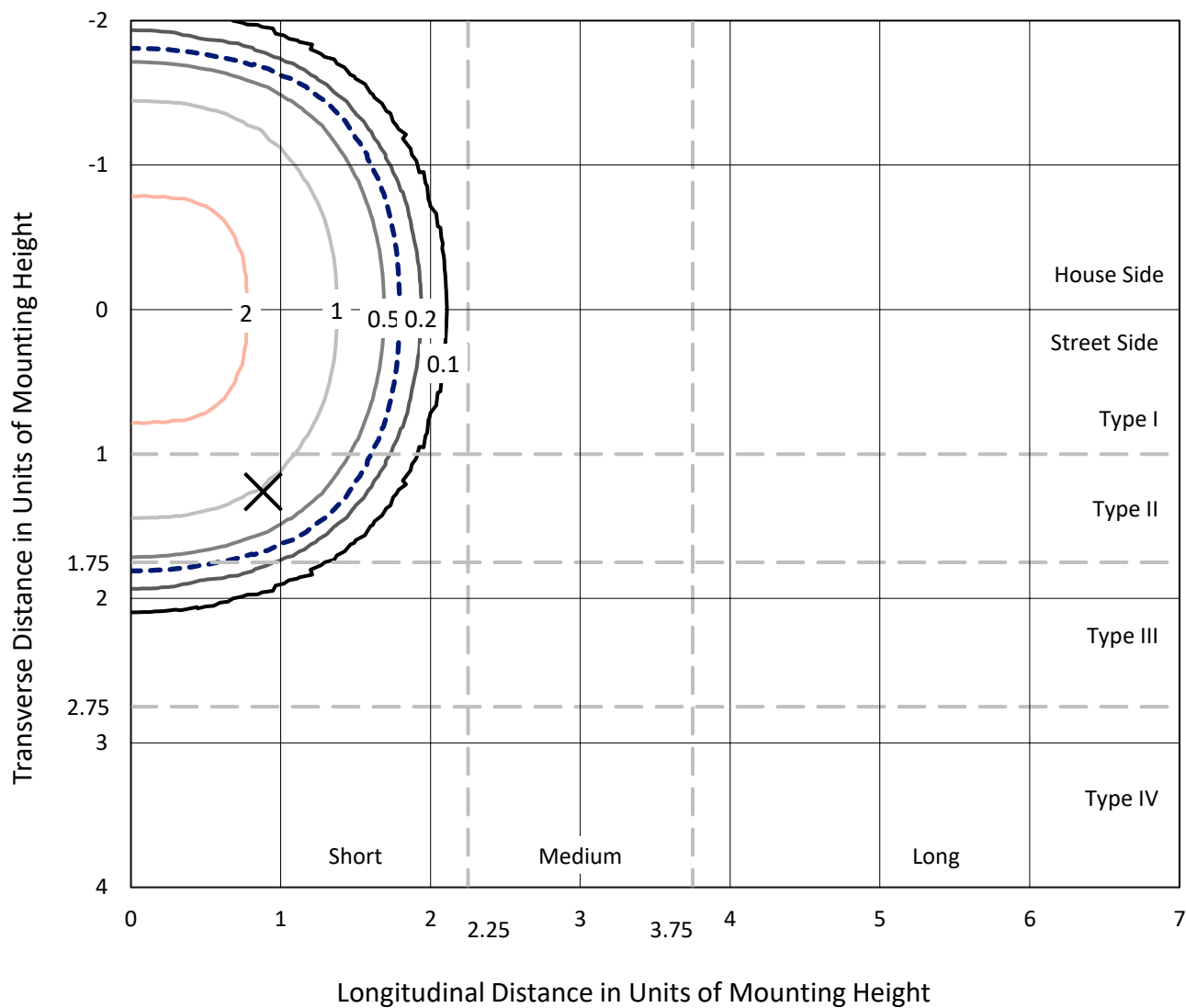
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



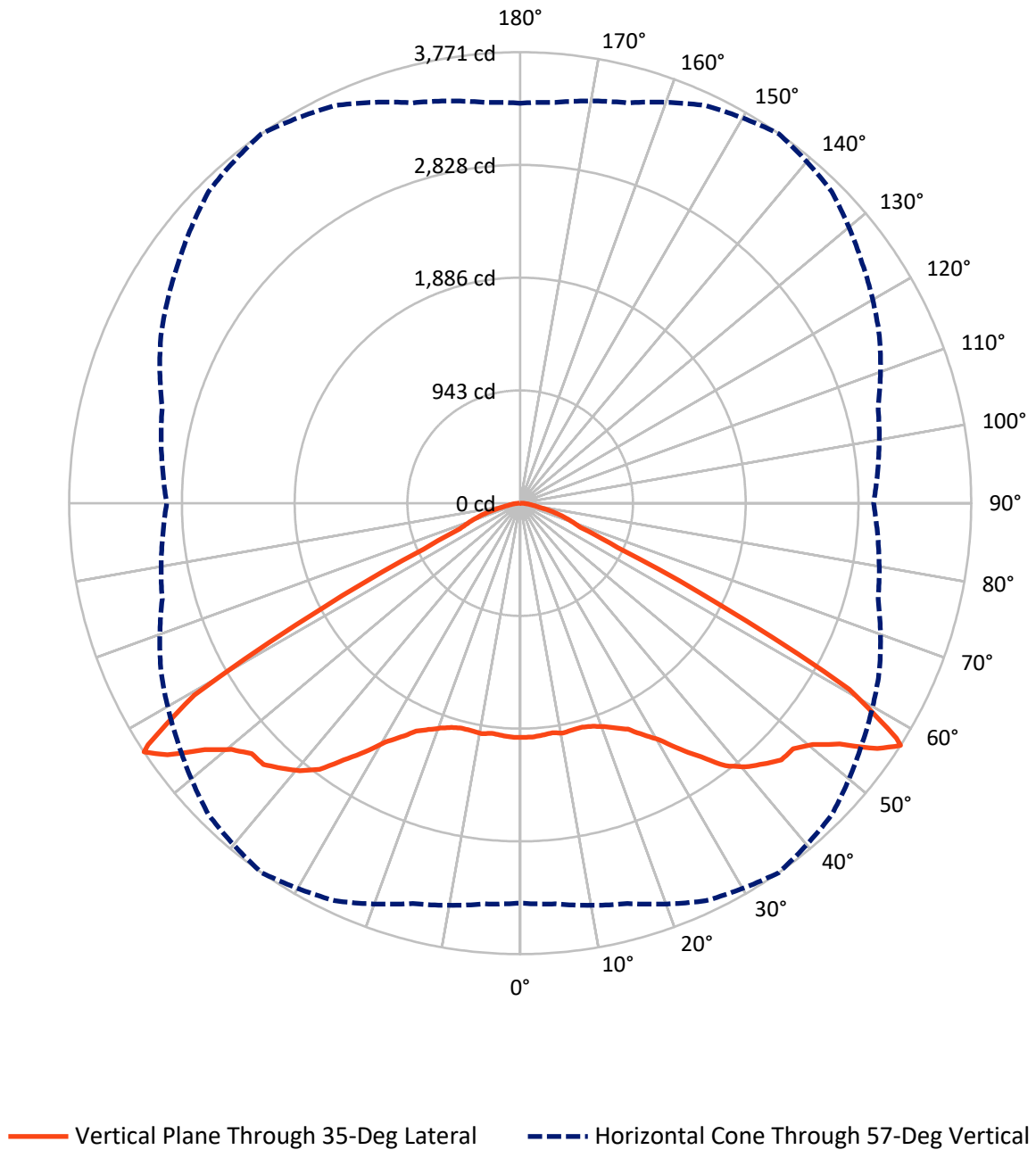
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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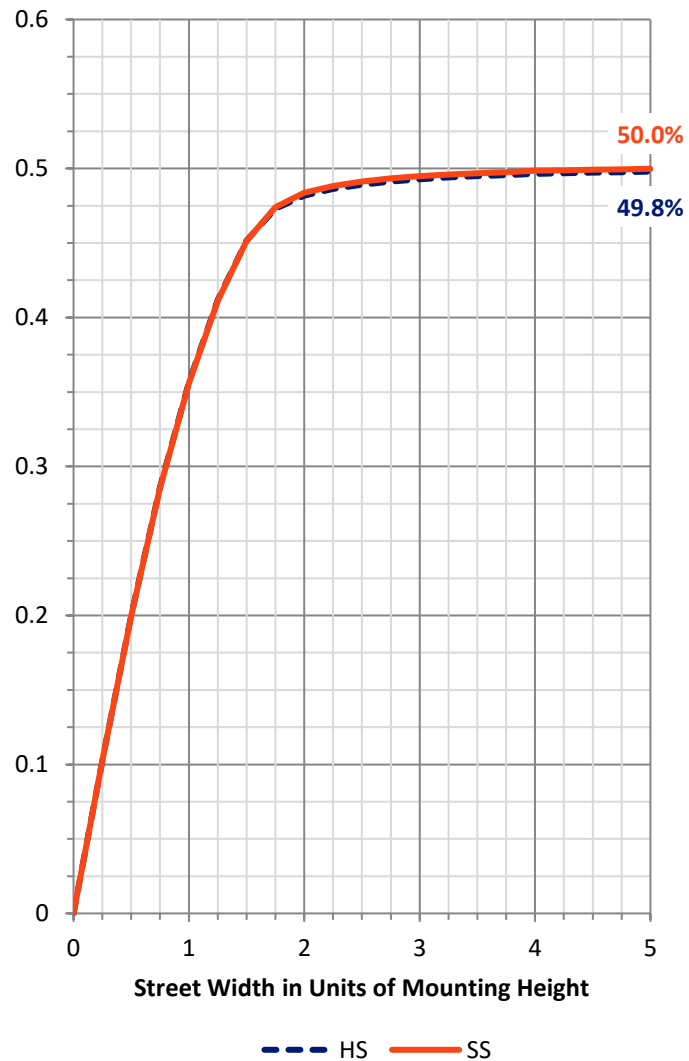
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4958.0	0.0	4958.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4958.0	0.0	4958.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9916.0	0.0	9916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.9
10°-20°	549.9	5.5
20°-30°	960.3	9.7
30°-40°	1573.5	15.9
40°-50°	2307.2	23.3
50°-60°	2906.1	29.3
60°-70°	1092.9	11.0
70°-80°	290.6	2.9
80°-90°	49.8	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°	9916.0	100.0
0°-180°	9916.0	100.0

Coefficient of Utilization



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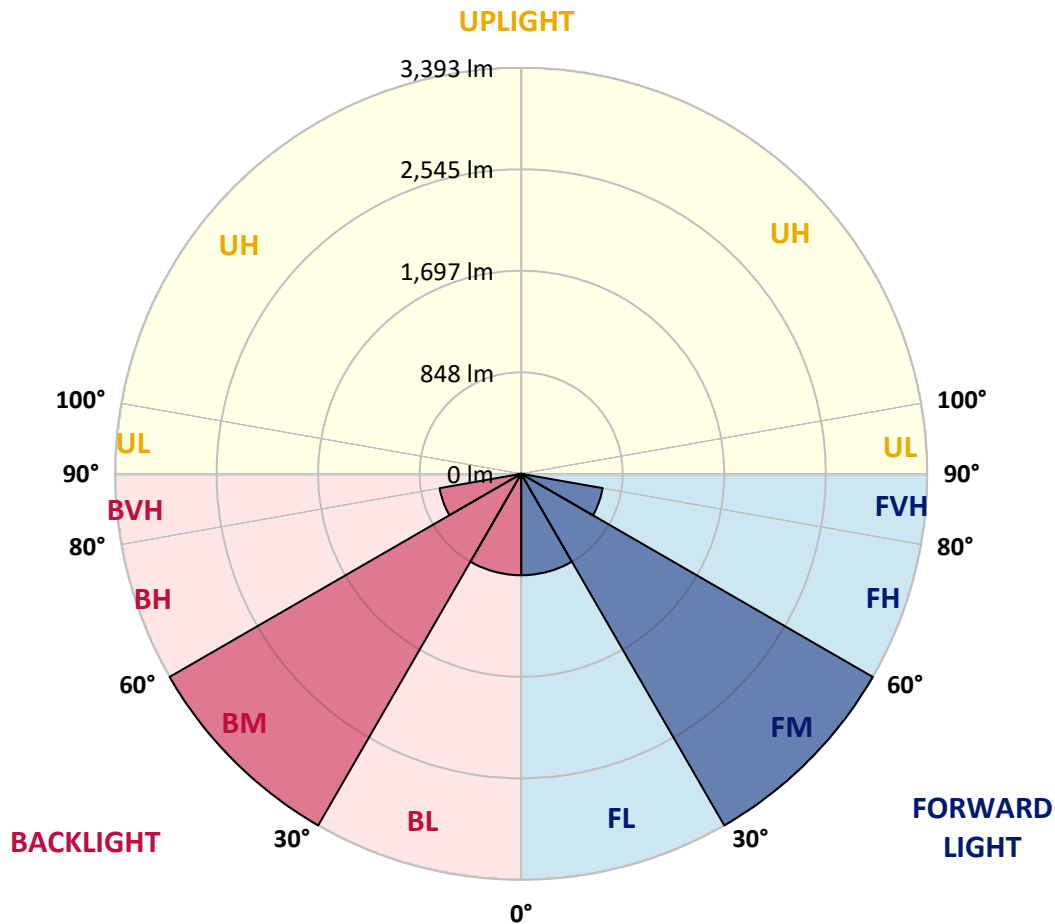
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.9	8.6			
FM	(30°-60°)	3393.4	34.2			
FH	(60°-80°)	691.8	7.0			G1/1800
FVH	(80°-90°)	24.9	0.3			G1/100
BL	(0°-30°)	847.9	8.6	B2/1000		
BM	(30°-60°)	3393.4	34.2	B3/5000		
BH	(60°-80°)	691.8	7.0	B2/1000		G1/1800
BVH	(80°-90°)	24.9	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°	1958.3	1958.3	1958.3	1958.3	1958.3	1958.3	1958.3	1958.3	1958.3	1958.3	1958.3
2.5°	1948.6	1968.1	1959.6	1954.7	1958.3	1952.2	1942.5	1953.5	1951.0	1941.2	1937.6
5°	1943.7	1958.3	1948.6	1958.3	1948.6	1965.7	1960.8	1942.5	1964.4	1943.7	1951.0
7.5°	1940.0	1944.9	1947.3	1942.5	1938.8	1959.6	1948.6	1940.0	1927.8	1924.1	1930.2
10°	1931.5	1943.7	1925.4	1949.8	1954.7	1940.0	1940.0	1924.1	1914.4	1908.2	1929.0
12.5°	1953.5	1932.7	1930.2	1942.5	1946.1	1952.2	1935.1	1926.6	1908.2	1910.7	1907.0
15°	1927.8	1936.3	1937.6	1940.0	1943.7	1958.3	1942.5	1924.1	1916.8	1891.1	1893.6
17.5°	1937.6	1929.0	1937.6	1965.7	1960.8	1971.8	1954.7	1926.6	1909.5	1894.8	1914.4
20°	1954.7	1951.0	1954.7	1988.9	1995.0	2004.8	1990.1	1964.4	1931.5	1914.4	1924.1
22.5°	1973.0	1970.6	1973.0	2006.0	2041.4	2053.6	2039.0	1979.1	1962.0	1930.2	1919.2
25°	2006.0	2008.4	2034.1	2070.7	2093.9	2117.2	2090.3	2047.5	1992.5	1973.0	1949.8
27.5°	2079.3	2085.4	2100.1	2153.8	2194.1	2214.9	2177.0	2118.4	2084.2	2043.9	2037.7
30°	2169.7	2169.7	2195.3	2241.8	2296.7	2328.5	2282.1	2212.4	2170.9	2148.9	2135.5
32.5°	2289.4	2276.0	2285.7	2367.6	2453.1	2480.0	2417.7	2332.2	2266.2	2236.9	2227.1
35°	2392.0	2400.6	2422.6	2510.5	2605.8	2668.1	2570.4	2459.2	2392.0	2365.2	2360.3
37.5°	2525.2	2539.9	2550.8	2671.8	2786.6	2809.8	2715.8	2626.6	2544.7	2522.7	2510.5
40°	2713.3	2703.6	2707.2	2796.4	2900.2	2914.9	2822.1	2758.5	2691.3	2677.9	2677.9
42.5°	2868.5	2857.5	2869.7	2902.7	2982.1	2971.1	2919.8	2873.4	2845.3	2830.6	2845.3
45°	2962.5	2960.1	2982.1	3006.5	3062.7	3026.1	2985.8	2993.1	2966.2	2941.8	2940.6
47.5°	3065.2	3049.3	3076.2	3112.8	3070.1	3053.0	3050.5	3066.4	3057.8	3015.1	3001.6
50°	3115.3	3109.2	3151.9	3194.7	3171.5	3132.4	3140.9	3166.6	3056.6	2999.2	2966.2
52.5°	3249.6	3250.9	3332.7	3355.9	3346.2	3288.7	3307.1	3237.4	3107.9	3027.3	3031.0
55°	3461.0	3452.4	3544.1	3612.5	3623.5	3550.2	3462.2	3364.5	3202.0	3120.1	3095.7
57°	3344.9	3364.5	3465.9	3668.7	3771.3	3684.6	3492.8	3314.4	3098.2	2999.2	2955.2
57.5°	3189.8	3221.5	3397.5	3601.5	3709.0	3701.7	3454.9	3221.5	3028.5	2874.6	2878.3
60°	2337.1	2343.2	2502.0	2825.7	3161.7	3169.0	2868.5	2559.4	2344.4	2177.0	2200.2
62.5°	1232.7	1260.8	1324.3	1584.5	1875.3	1946.1	1764.1	1605.3	1419.6	1292.5	1304.7
65°	652.4	648.7	679.2	752.5	895.5	932.1	907.7	781.9	717.1	696.4	697.6
67.5°	530.2	536.3	532.6	536.3	546.1	562.0	558.3	563.2	566.9	573.0	571.7
70°	449.6	449.6	452.0	453.2	453.2	460.6	469.1	485.0	486.2	492.3	494.8
72.5°	354.3	351.8	355.5	364.1	365.3	371.4	383.6	393.4	397.0	397.0	389.7
75°	240.7	243.1	248.0	255.3	262.7	273.7	283.4	289.5	292.0	288.3	284.6
77.5°	135.6	138.0	141.7	152.7	161.3	171.0	182.0	188.1	194.2	195.5	188.1
80°	80.6	80.6	86.7	95.3	105.1	114.8	124.6	131.9	134.4	134.4	130.7
82.5°	48.9	50.1	55.0	63.5	72.1	78.2	86.7	92.8	97.7	96.5	94.1
85°	25.7	25.7	30.5	37.9	44.0	50.1	50.1	46.4	44.0	37.9	35.4
87.5°	8.6	7.3	9.8	9.8	8.6	9.8	9.8	11.0	11.0	11.0	11.0
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)