

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: P650788

Luminaire Tested: **GALN-SA3C-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18210.2 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

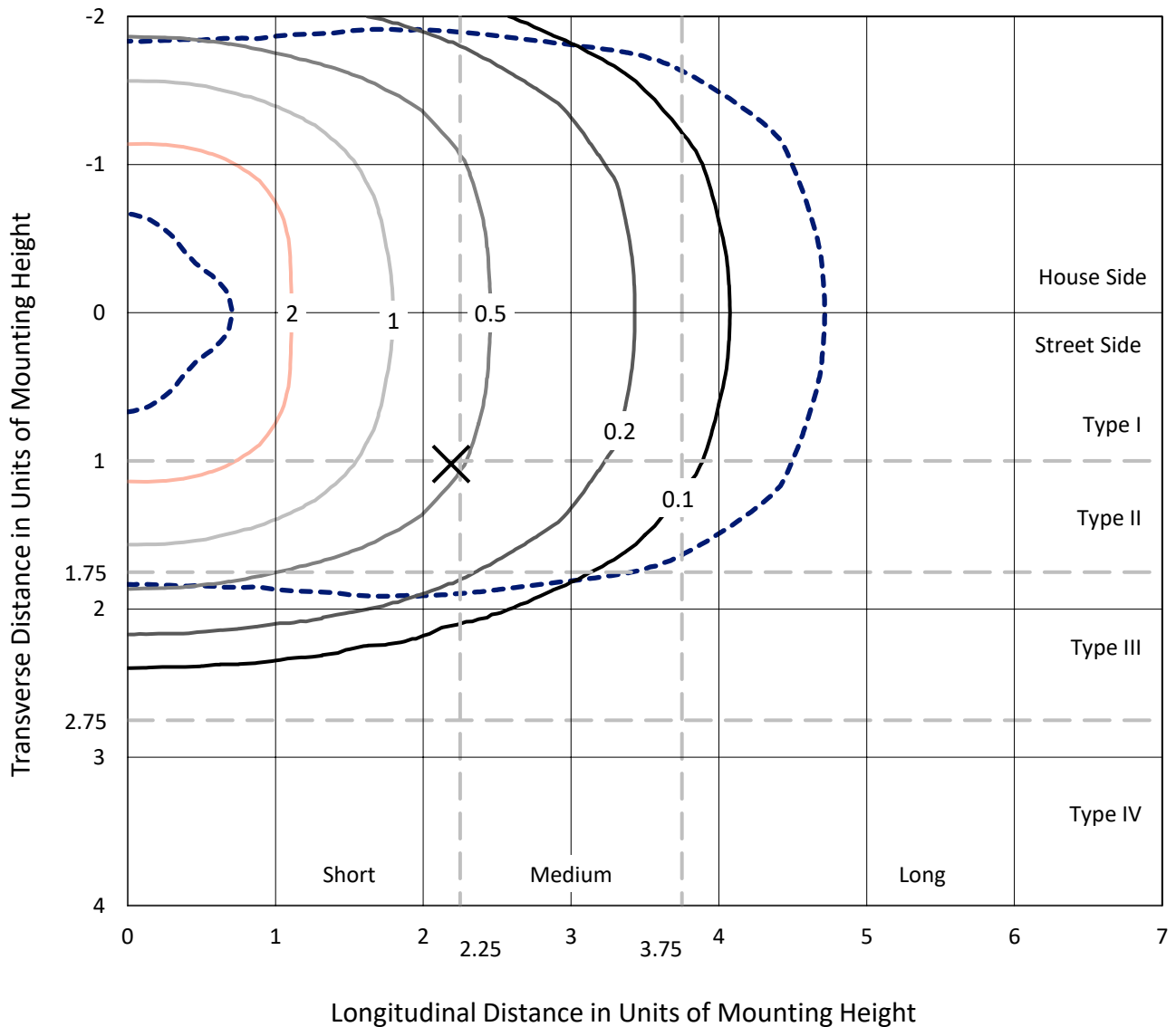
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

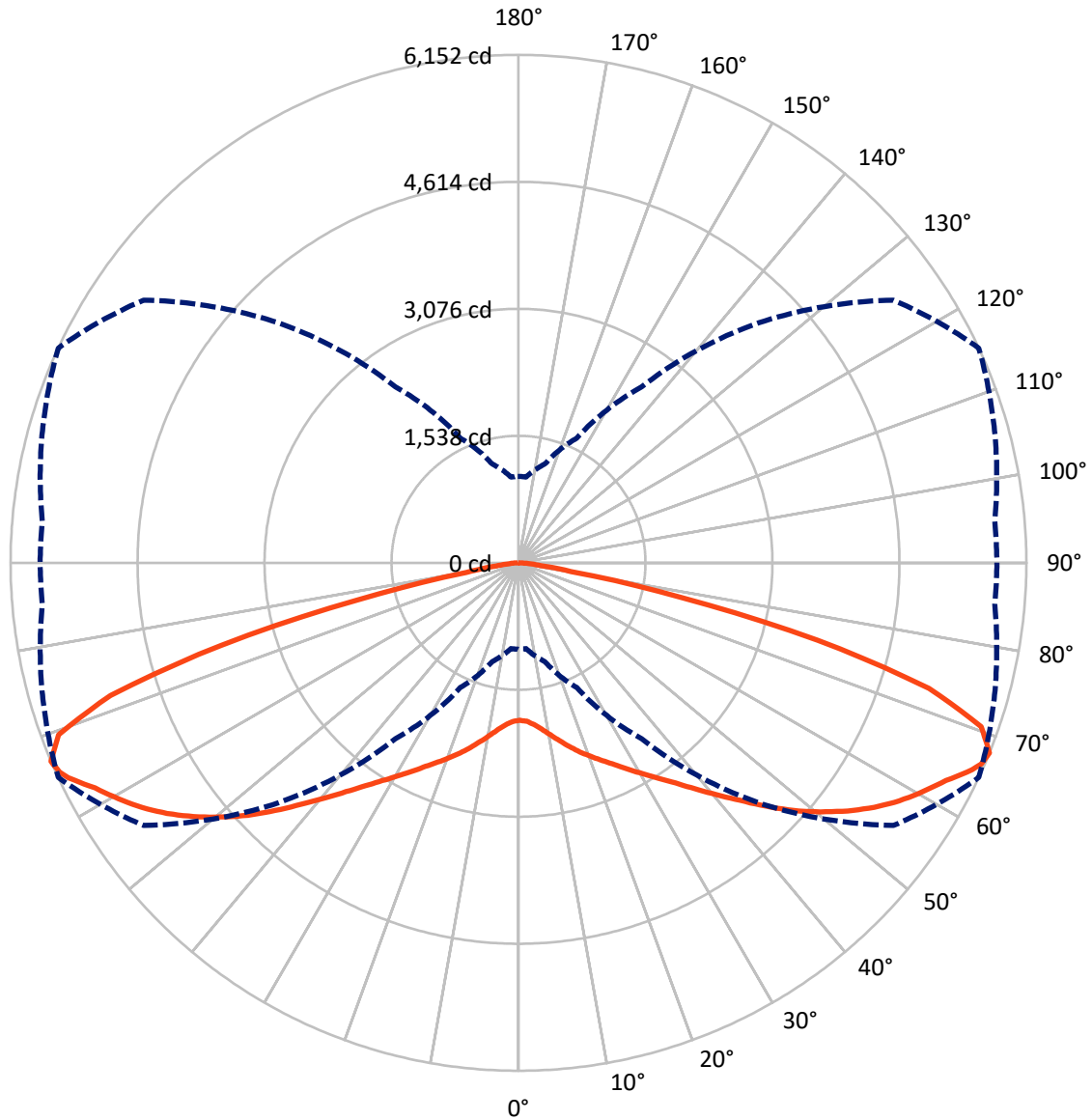
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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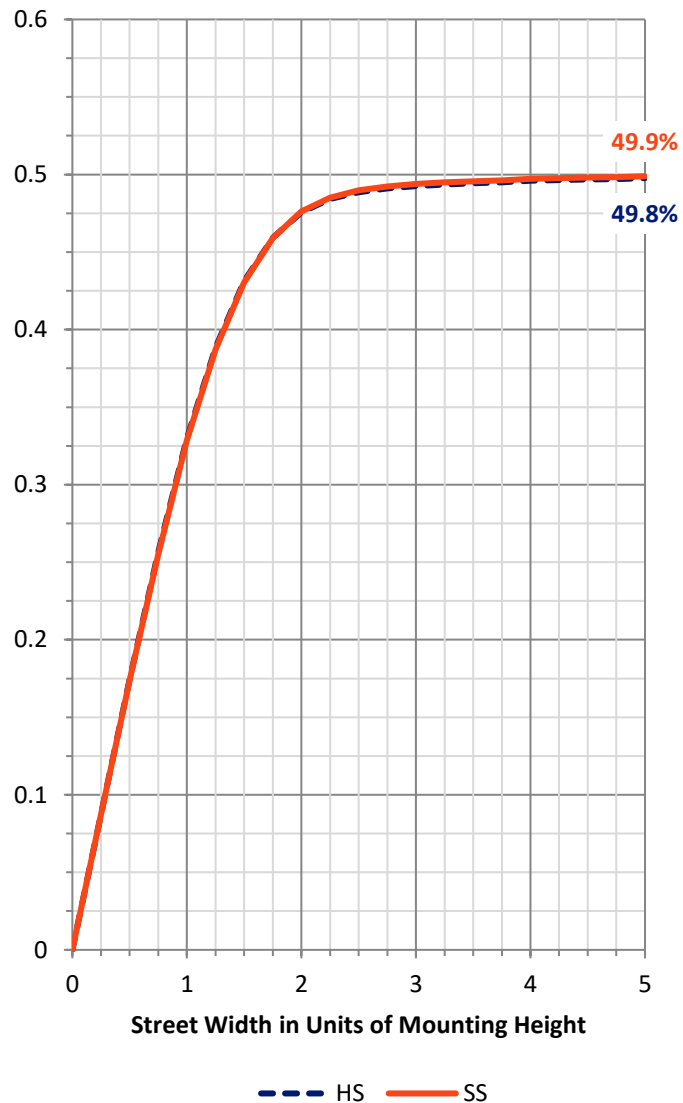
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9105.1	0.0	9105.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9105.1	0.0	9105.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18210.2	0.0	18210.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	1.0
10°-20°	629.6	3.5
20°-30°	1231.6	6.8
30°-40°	2094.7	11.5
40°-50°	3315.3	18.2
50°-60°	4396.1	24.1
60°-70°	4146.8	22.8
70°-80°	2050.0	11.3
80°-90°	158.0	0.9
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°	18210.2	100.0
0°-180°	18210.2	100.0

Coefficient of Utilization

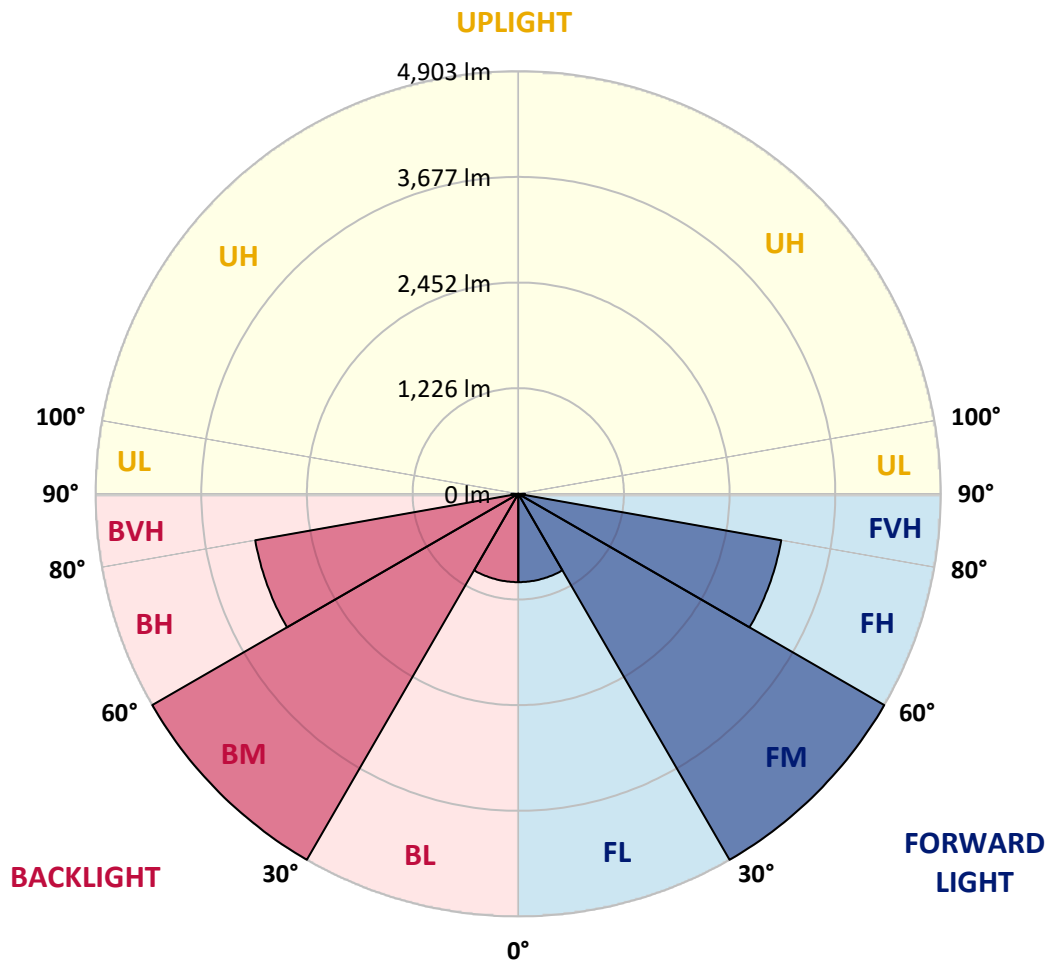


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.6	5.6			
FM (30°-60°)	4903.0	26.9			
FH (60°-80°)	3098.4	17.0			G2/5000
FVH (80°-90°)	79.0	0.4			G1/100
BL (0°-30°)	1024.6	5.6	B3/2500		
BM (30°-60°)	4903.0	26.9	B3/5000		
BH (60°-80°)	3098.4	17.0	B4/5000		G4/5000
BVH (80°-90°)	79.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4
2.5°	1897.6	1899.6	1901.5	1904.4	1908.3	1914.2	1918.1	1921.0	1928.8	1929.8	1928.8
5°	1890.7	1892.8	1897.6	1906.4	1919.1	1936.7	1950.3	1966.8	1979.5	1988.3	1986.4
7.5°	1889.8	1893.7	1901.5	1920.0	1944.4	1974.7	2005.9	2034.2	2058.6	2078.1	2075.2
10°	1905.4	1910.2	1922.9	1950.3	1988.3	2032.3	2076.2	2118.1	2153.2	2178.6	2187.4
12.5°	1931.8	1935.6	1959.0	2000.1	2054.6	2109.3	2159.1	2210.7	2259.6	2302.5	2302.5
15°	1977.6	1984.4	2013.7	2073.2	2140.5	2203.9	2254.7	2309.3	2362.0	2410.8	2425.4
17.5°	2041.0	2050.8	2094.7	2170.8	2256.7	2315.2	2363.0	2407.9	2453.7	2500.5	2507.4
20°	2127.8	2137.6	2196.1	2287.9	2389.3	2459.6	2491.7	2502.5	2524.9	2569.8	2575.6
22.5°	2245.9	2255.6	2321.0	2424.4	2537.6	2613.7	2627.4	2602.0	2596.2	2631.2	2635.2
25°	2379.5	2388.4	2463.5	2574.7	2691.8	2774.7	2770.8	2708.4	2673.2	2694.6	2700.5
27.5°	2529.8	2542.5	2618.6	2733.8	2860.6	2933.7	2922.0	2831.3	2756.1	2752.3	2754.2
30°	2722.0	2735.7	2807.8	2918.1	3043.0	3110.3	3085.9	2963.9	2847.9	2808.9	2808.9
32.5°	2924.9	2959.1	3032.2	3147.4	3244.9	3293.7	3256.7	3110.3	2956.1	2901.5	2898.6
35°	3189.3	3207.9	3280.1	3392.3	3465.4	3503.5	3432.3	3275.2	3097.7	3033.2	3024.5
37.5°	3447.8	3463.5	3547.4	3654.7	3743.5	3741.5	3645.0	3471.3	3273.3	3201.0	3195.2
40°	3712.3	3728.8	3824.4	3923.0	4011.8	4004.0	3886.9	3692.7	3482.0	3401.0	3416.6
42.5°	3941.5	3960.1	4068.3	4208.9	4288.8	4286.9	4151.3	3932.8	3713.3	3641.0	3654.7
45°	4150.3	4166.9	4292.8	4453.8	4570.8	4585.5	4437.2	4205.9	3980.5	3887.9	3891.8
47.5°	4297.7	4328.9	4460.6	4645.0	4804.0	4855.7	4710.4	4484.0	4224.5	4127.9	4133.8
50°	4409.9	4429.4	4572.8	4782.5	4983.5	5090.8	4973.8	4741.6	4468.4	4366.0	4379.6
52.5°	4423.5	4447.0	4603.0	4845.0	5102.5	5265.5	5207.9	4993.3	4717.2	4611.8	4641.1
55°	4312.3	4325.9	4512.3	4806.0	5149.4	5395.3	5409.9	5227.4	4954.2	4874.3	4893.8
57.5°	3995.2	4030.3	4266.4	4623.5	5084.9	5464.5	5561.1	5440.1	5194.3	5115.2	5146.4
60°	3475.2	3510.3	3747.4	4200.1	4842.1	5432.3	5686.0	5628.4	5411.8	5348.4	5365.0
62.5°	2723.0	2720.0	3013.7	3568.9	4359.1	5274.2	5778.7	5809.9	5626.5	5546.5	5571.8
65°	1764.9	1773.7	2057.6	2655.6	3630.3	4872.3	5799.1	6041.1	5837.2	5716.2	5734.8
66°	1419.5	1445.8	1686.9	2238.1	3258.6	4608.8	5737.6	6109.4	5901.5	5755.2	5764.0
67.5°	1047.8	1042.9	1241.0	1666.4	2602.0	4108.4	5545.5	6152.3	5974.7	5790.4	5794.2
70°	598.0	597.1	667.3	915.2	1529.8	2892.7	4674.3	5946.5	6123.1	5917.2	5906.4
72.5°	437.1	434.1	443.9	505.4	746.4	1460.5	3224.5	5197.2	6047.0	5896.7	5866.5
75°	366.8	364.9	363.0	370.7	418.6	661.4	1711.3	3738.6	5246.9	5534.7	5503.5
77.5°	299.5	299.5	300.5	298.6	300.5	348.3	709.3	2003.9	3195.2	3566.9	3653.7
80°	234.1	233.2	249.8	243.0	227.3	223.5	314.1	644.9	1060.5	1054.6	870.3
82.5°	172.7	161.0	190.2	185.4	167.8	142.5	183.4	275.1	354.1	230.3	170.7
85°	109.2	108.3	134.6	123.0	102.4	67.3	87.8	118.1	146.3	88.8	72.2
87.5°	19.5	18.5	42.9	31.2	31.2	19.5	24.4	32.2	47.8	33.1	24.4
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)