

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: P531683

Luminaire Tested: **GALN-SA7A-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15131 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

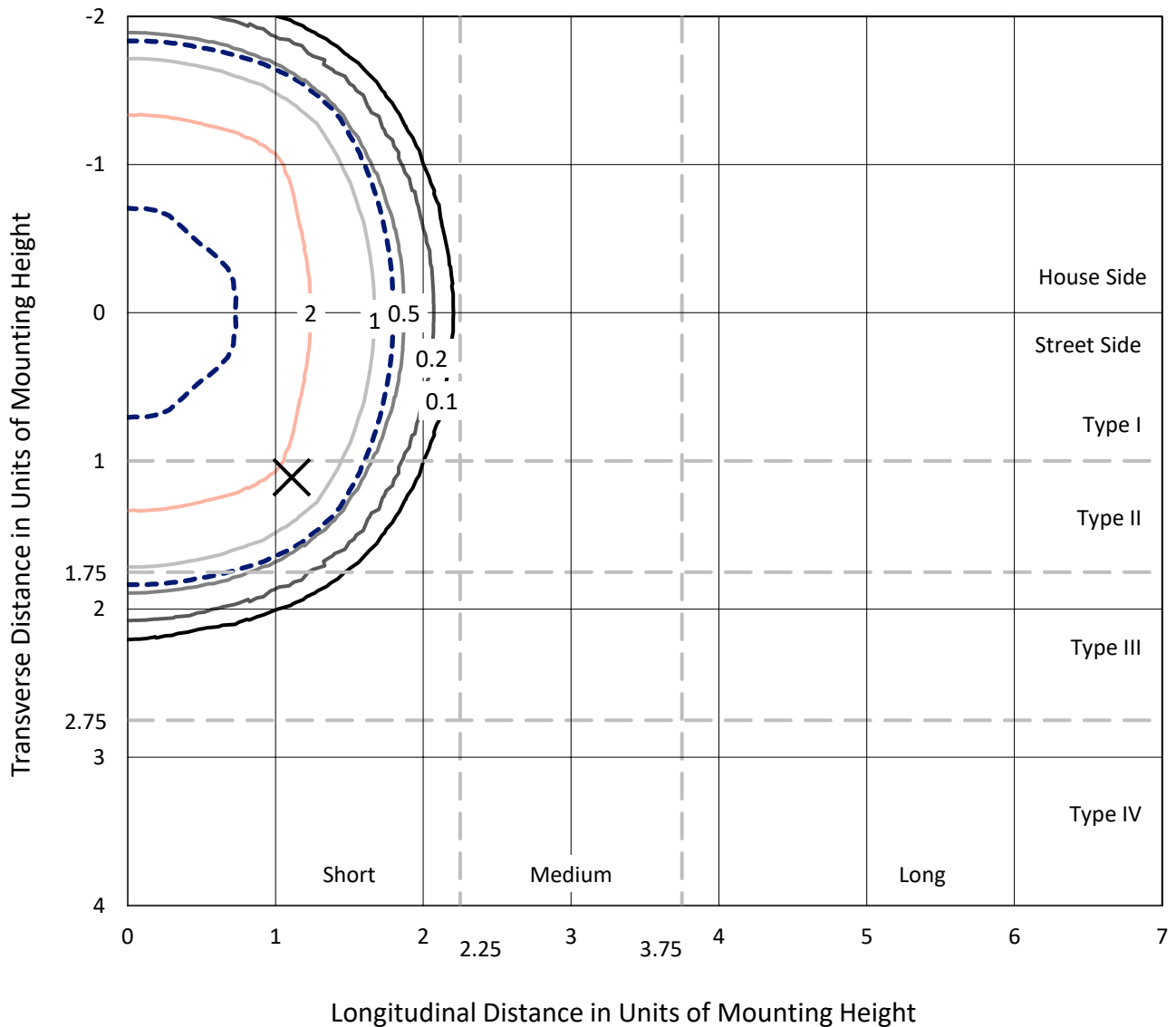
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

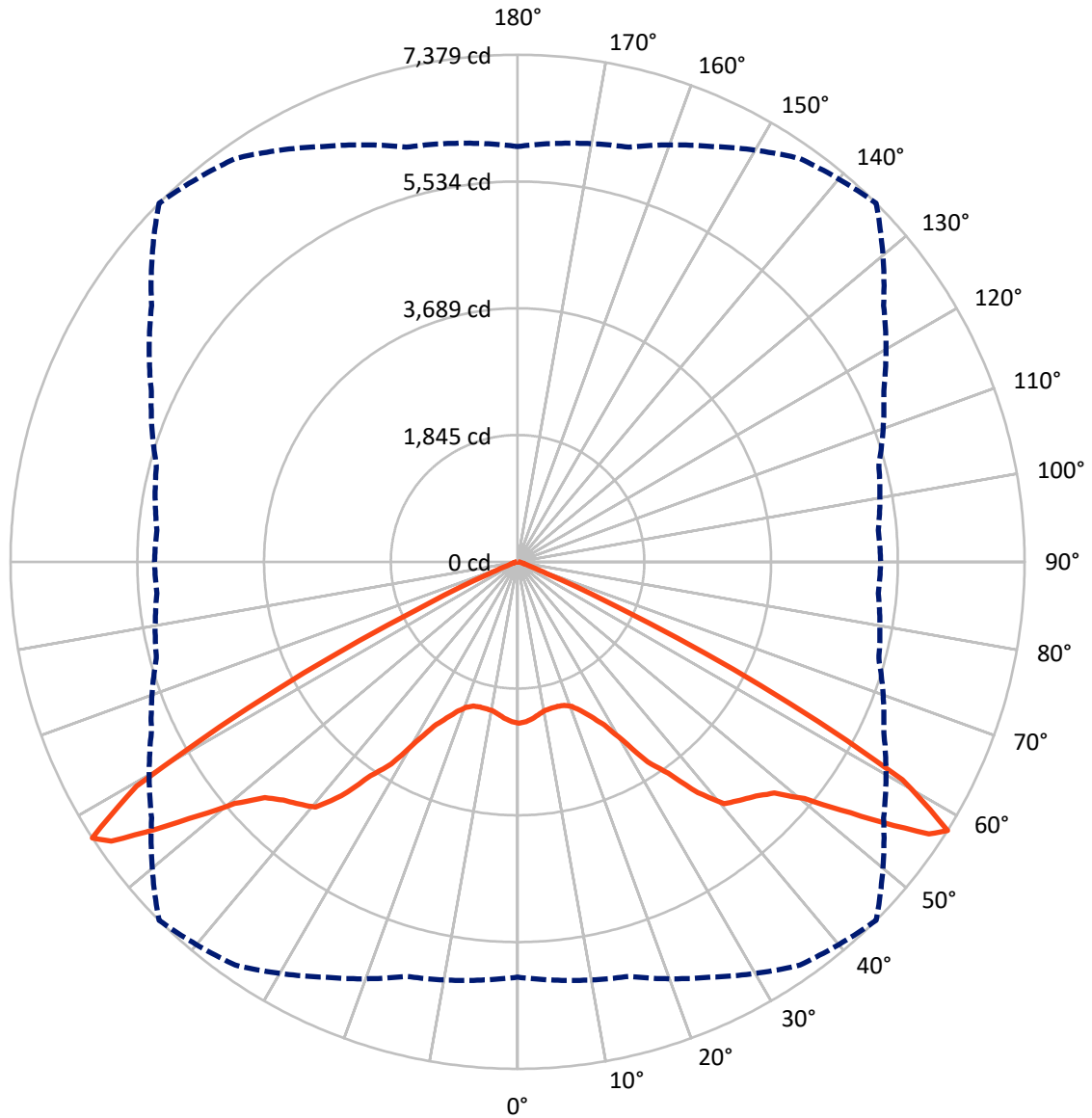
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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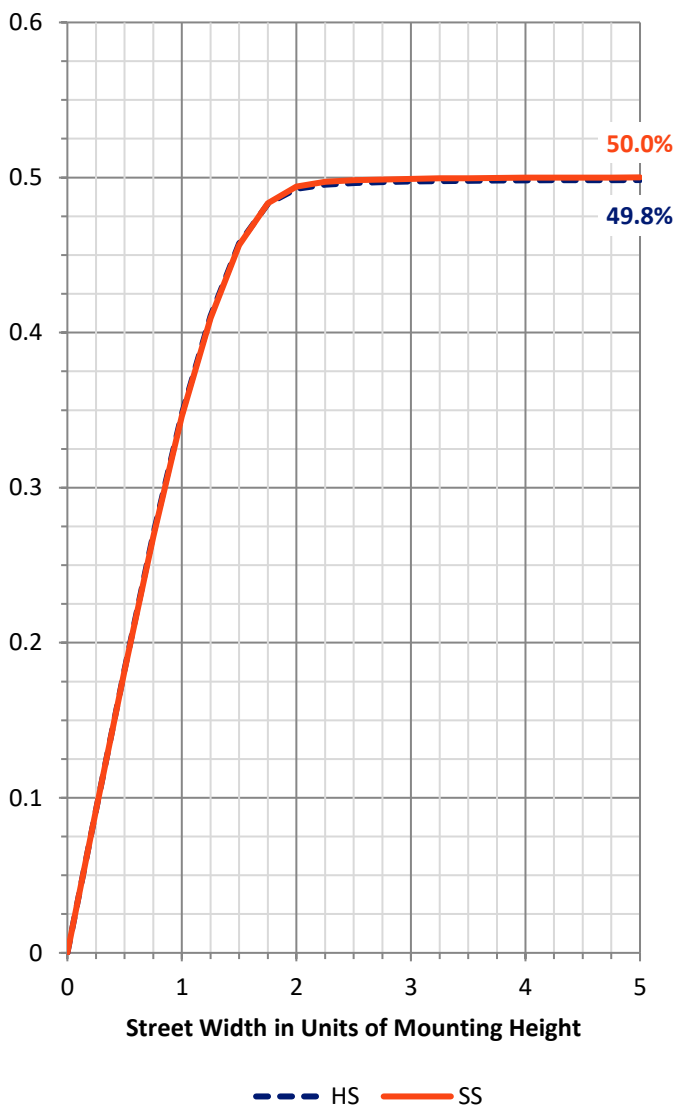
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7565.5	0.0	7565.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7565.5	0.0	7565.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15131.0	0.0	15131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	1.4
10°-20°	623.4	4.1
20°-30°	1150.7	7.6
30°-40°	2263.0	15.0
40°-50°	3685.8	24.4
50°-60°	5256.5	34.7
60°-70°	1819.9	12.0
70°-80°	97.6	0.6
80°-90°	18.3	0.1
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°	15131.0	100.0
0°-180°	15131.0	100.0

Coefficient of Utilization

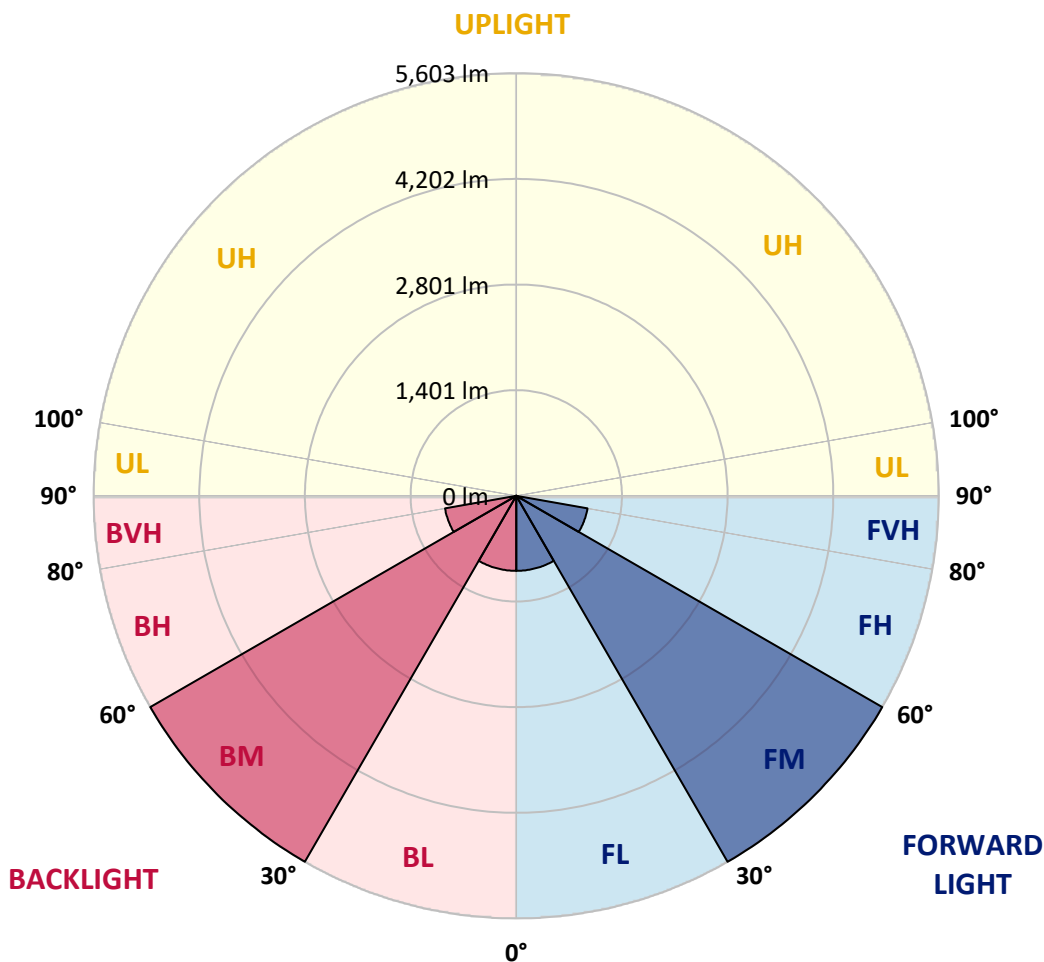


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.9	6.6			
FM (30°-60°)	5602.7	37.0			
FH (60°-80°)	958.8	6.3			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	994.9	6.6	B2/1000		
BM (30°-60°)	5602.7	37.0	B4/8500		
BH (60°-80°)	958.8	6.3	B2/1000		G1/1800
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0
2.5°	2340.7	2353.3	2337.5	2331.2	2328.0	2328.0	2318.6	2318.6	2315.4	2318.6	2306.0
5°	2302.8	2315.4	2315.4	2312.3	2293.3	2290.2	2280.7	2274.4	2277.6	2265.0	2274.4
7.5°	2265.0	2274.4	2261.8	2258.6	2252.3	2239.7	2236.6	2208.2	2211.3	2211.3	2217.6
10°	2258.6	2255.5	2236.6	2220.8	2201.9	2198.7	2189.2	2182.9	2182.9	2179.8	2189.2
12.5°	2258.6	2242.9	2239.7	2205.0	2173.5	2186.1	2160.9	2145.1	2167.2	2173.5	2186.1
15°	2255.5	2271.3	2217.6	2201.9	2179.8	2182.9	2160.9	2145.1	2157.7	2164.0	2173.5
17.5°	2274.4	2265.0	2249.2	2217.6	2208.2	2195.6	2167.2	2154.5	2154.5	2170.3	2173.5
20°	2324.9	2299.7	2268.1	2252.3	2261.8	2246.0	2211.3	2164.0	2176.6	2189.2	2198.7
22.5°	2372.2	2353.3	2331.2	2321.7	2375.4	2350.1	2290.2	2236.6	2217.6	2239.7	2255.5
25°	2463.7	2463.7	2422.7	2435.3	2495.2	2498.4	2429.0	2334.4	2321.7	2331.2	2337.5
27.5°	2649.8	2659.3	2624.6	2637.2	2662.4	2684.5	2624.6	2545.7	2517.3	2514.2	2523.6
30°	2851.7	2870.6	2867.5	2921.1	2993.7	3006.3	2917.9	2788.6	2703.4	2687.7	2700.3
32.5°	3116.7	3126.1	3119.8	3182.9	3378.5	3470.0	3239.7	3056.7	2943.2	2971.6	2943.2
35°	3615.1	3605.6	3536.2	3548.9	3709.7	3776.0	3555.2	3438.4	3384.8	3441.6	3429.0
37.5°	4044.1	4009.4	3952.6	4034.7	4201.8	4261.8	4031.5	3826.5	3728.7	3823.3	3864.3
40°	4406.9	4318.6	4239.7	4321.7	4545.7	4627.7	4290.2	4123.0	4085.1	4154.5	4242.9
42.5°	4712.9	4656.1	4552.0	4558.3	4706.6	4744.4	4473.1	4375.3	4337.5	4447.9	4492.1
45°	4930.5	4876.9	4779.1	4772.8	4886.4	4861.1	4618.2	4552.0	4574.1	4646.6	4668.7
47.5°	5041.0	5069.3	5012.6	5028.3	5088.3	5028.3	4835.9	4835.9	4785.4	4829.6	4807.5
50°	5359.6	5271.2	5343.8	5343.8	5406.9	5413.2	5220.8	5151.4	5015.7	4940.0	4940.0
52.5°	5731.8	5738.1	5766.5	5870.6	5977.9	6069.3	5794.9	5498.4	5271.2	5173.4	5160.8
55°	6037.8	6100.9	6214.4	6410.0	6719.2	6845.3	6372.2	5842.2	5564.6	5413.2	5381.6
56°	6205.0	6145.0	6340.6	6608.8	7012.5	7176.6	6466.8	5911.6	5605.6	5435.3	5432.1
57.5°	6044.1	6110.3	6246.0	6668.7	7164.0	7378.5	6501.5	5880.1	5441.6	5268.1	5283.9
60°	4772.8	4835.9	5018.9	5492.1	6268.1	6435.3	5501.5	4848.5	4457.4	4208.2	4211.3
62.5°	2700.3	2747.6	2889.6	3328.0	3810.7	3971.6	3429.0	2993.7	2722.4	2583.6	2539.4
65°	993.7	974.8	996.8	1220.8	1517.3	1653.0	1425.9	1205.0	1063.1	1012.6	993.7
67.5°	372.2	343.8	321.8	343.8	432.2	457.4	419.6	350.2	328.1	337.5	343.8
70°	230.3	217.7	173.5	164.0	160.9	157.7	167.2	176.7	201.9	236.6	242.9
72.5°	160.9	151.4	123.0	116.7	110.4	107.3	123.0	135.6	157.7	183.0	186.1
75°	63.1	66.2	63.1	69.4	72.6	75.7	88.3	97.8	107.3	107.3	104.1
77.5°	12.6	12.6	18.9	25.2	31.5	41.0	59.9	69.4	72.6	69.4	59.9
80°	0.0	0.0	6.3	12.6	25.2	34.7	53.6	59.9	66.2	59.9	47.3
82.5°	0.0	0.0	6.3	15.8	25.2	31.5	50.5	63.1	72.6	66.2	50.5
85°	0.0	0.0	6.3	12.6	18.9	22.1	22.1	15.8	15.8	9.5	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)