

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: P651331

Luminaire Tested: **GALN-SA4D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26936.4 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

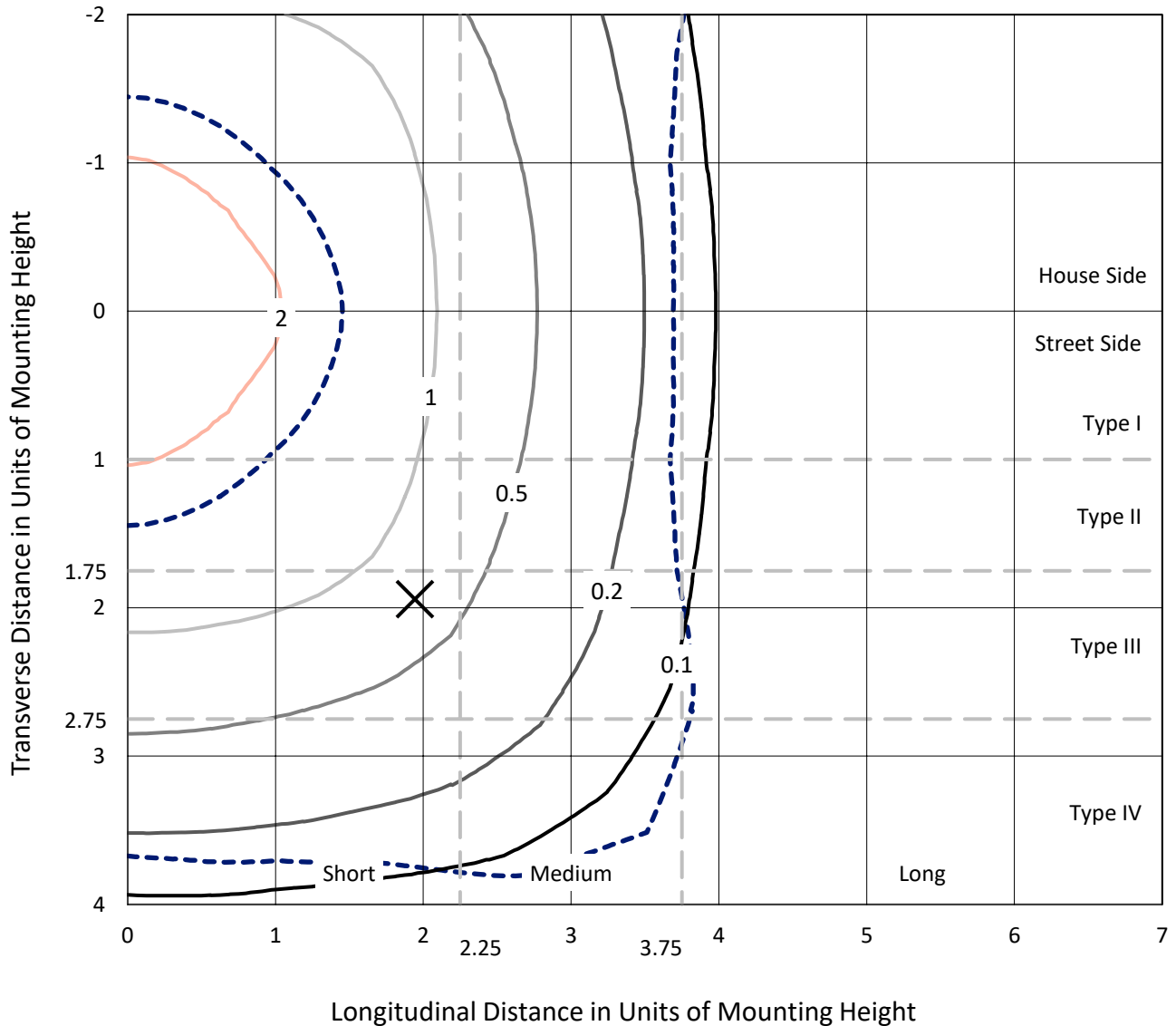
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

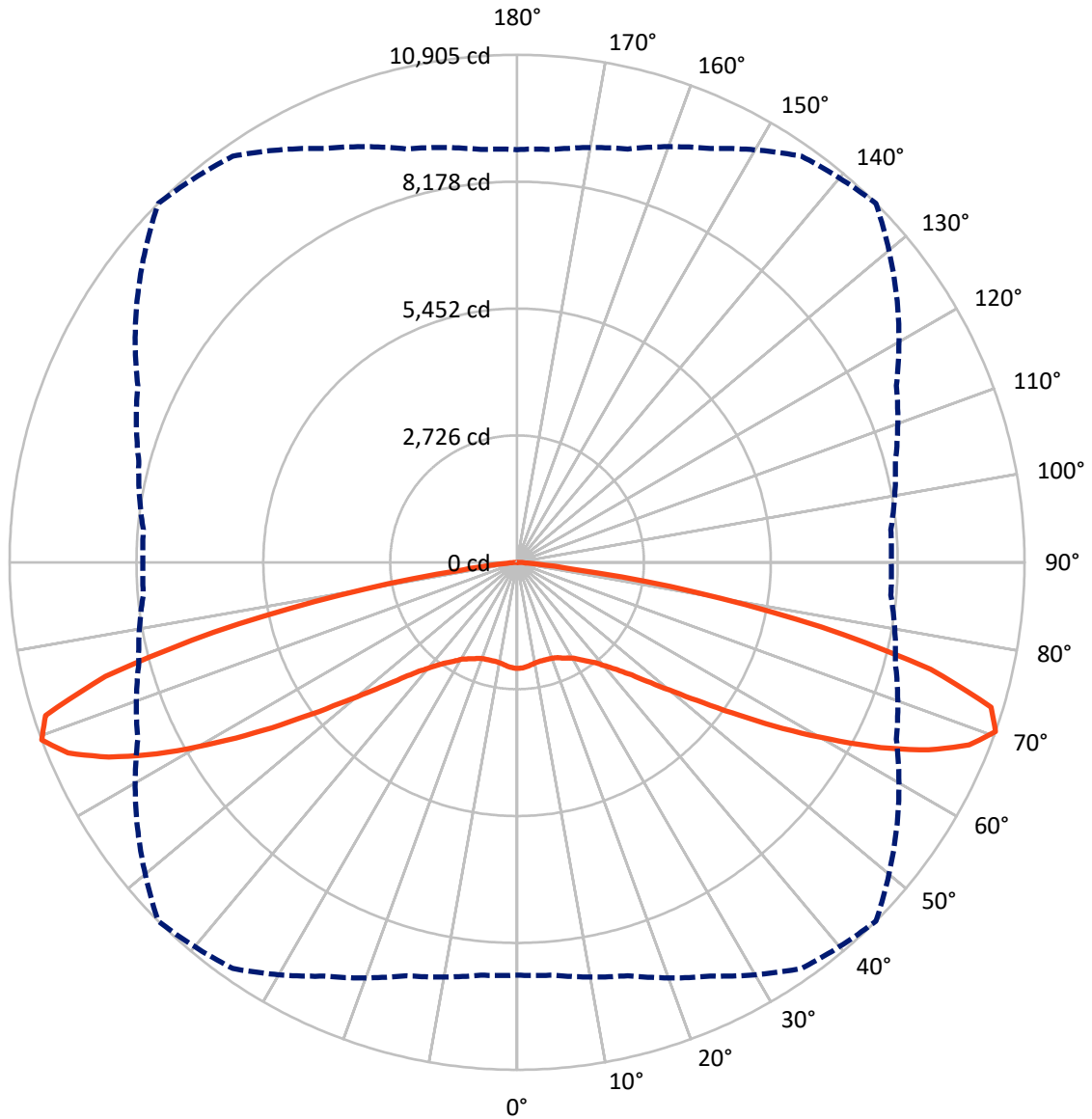
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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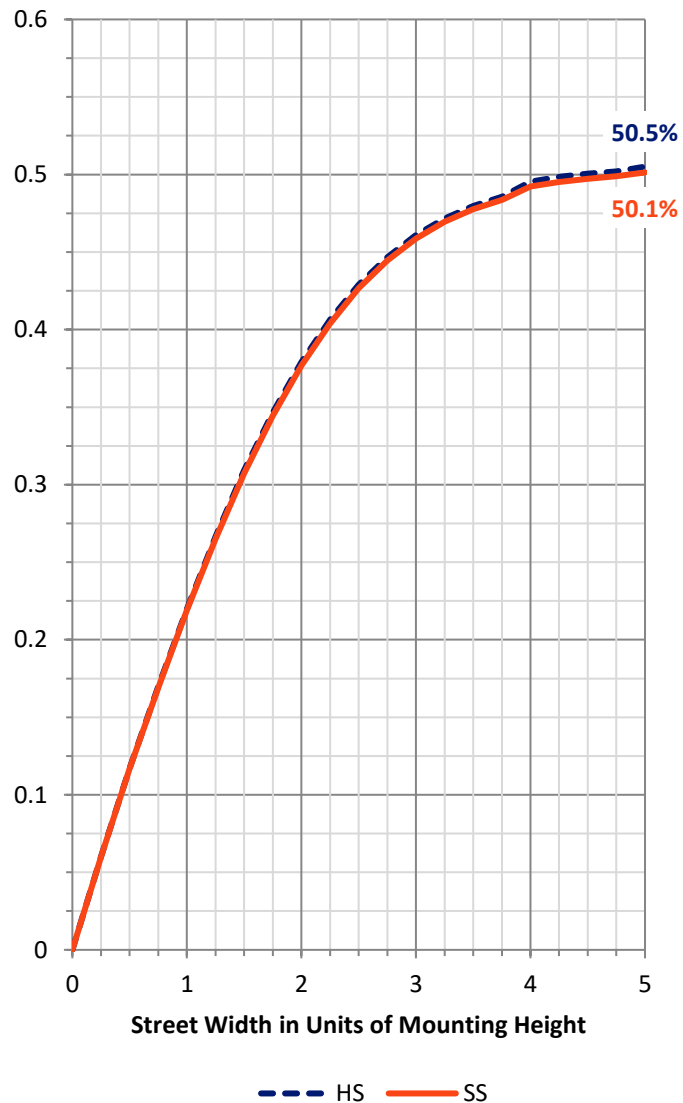
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13468.2	0.0	13468.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13468.2	0.0	13468.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26936.4	0.0	26936.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	0.8
10°-20°	624.4	2.3
20°-30°	1063.8	3.9
30°-40°	1648.8	6.1
40°-50°	2775.2	10.3
50°-60°	5049.3	18.7
60°-70°	8548.4	31.7
70°-80°	6616.8	24.6
80°-90°	396.5	1.5
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°	26936.4	100.0
0°-180°	26936.4	100.0

Coefficient of Utilization



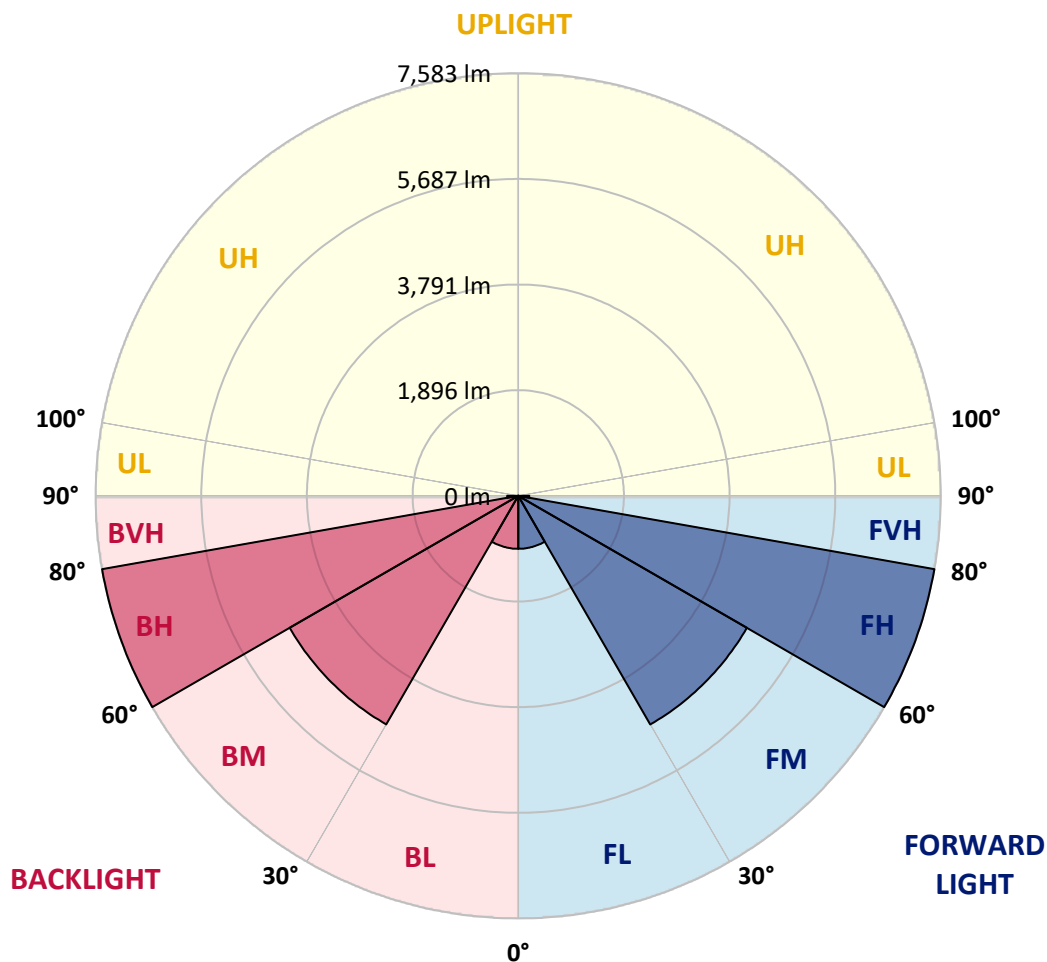
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.7	3.5			
FM (30°-60°)	4736.7	17.6			
FH (60°-80°)	7582.6	28.1			G4/12000
FVH (80°-90°)	198.2	0.7			G2/225
BL (0°-30°)	950.7	3.5	B2/1000		
BM (30°-60°)	4736.7	17.6	B3/5000		
BH (60°-80°)	7582.6	28.1	B5		G4/12000
BVH (80°-90°)	198.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2274.8	2276.3	2276.3	2273.4	2272.0	2272.0	2270.5	2270.5	2274.8	2276.3	2277.7
5°	2254.9	2254.9	2254.9	2253.5	2250.6	2250.6	2247.7	2247.7	2249.2	2253.5	2250.6
7.5°	2227.9	2230.7	2230.7	2225.0	2220.7	2220.7	2219.3	2220.7	2222.2	2226.5	2225.0
10°	2219.3	2220.7	2213.6	2203.7	2196.5	2192.3	2193.7	2196.5	2203.7	2206.5	2208.0
12.5°	2225.0	2225.0	2212.2	2198.0	2185.2	2179.5	2178.1	2188.0	2200.8	2209.4	2212.2
15°	2232.1	2229.2	2213.6	2195.2	2182.3	2180.9	2179.5	2186.6	2205.1	2222.2	2223.6
17.5°	2236.4	2235.0	2215.0	2192.3	2185.2	2185.2	2183.7	2189.5	2209.4	2230.7	2232.1
20°	2250.6	2246.3	2223.6	2199.4	2193.7	2196.5	2192.3	2199.4	2220.7	2246.3	2252.0
22.5°	2279.1	2274.8	2252.0	2227.9	2225.0	2225.0	2223.6	2230.7	2253.5	2280.5	2284.7
25°	2313.3	2309.0	2287.6	2270.5	2273.4	2279.1	2276.3	2277.7	2296.2	2318.9	2326.0
27.5°	2358.8	2351.6	2333.1	2318.9	2327.5	2327.5	2327.5	2326.0	2337.4	2358.8	2365.8
30°	2414.3	2411.4	2391.5	2390.0	2397.2	2390.0	2390.0	2391.5	2392.9	2412.8	2419.9
32.5°	2486.8	2481.1	2471.1	2468.3	2488.2	2493.9	2474.0	2455.5	2465.5	2485.3	2489.6
35°	2606.3	2597.8	2583.6	2567.9	2583.6	2610.5	2567.9	2553.6	2579.3	2606.3	2609.1
37.5°	2768.5	2764.2	2741.4	2713.0	2711.6	2740.0	2695.9	2694.5	2742.8	2775.6	2779.8
40°	2971.9	2976.1	2947.7	2920.7	2906.5	2929.2	2895.1	2907.8	2954.9	2991.9	2989.0
42.5°	3257.9	3242.2	3198.1	3172.5	3156.9	3148.3	3139.8	3159.7	3212.4	3252.1	3283.4
45°	3592.2	3586.4	3531.0	3499.7	3465.6	3452.7	3449.9	3485.4	3549.5	3597.9	3602.2
47.5°	3970.6	3957.8	3922.3	3889.5	3876.7	3861.0	3846.8	3873.8	3937.9	3972.0	3982.0
50°	4360.4	4363.3	4363.3	4357.6	4370.3	4373.2	4334.8	4344.8	4380.3	4377.5	4374.6
52.5°	4805.7	4821.4	4895.3	4902.4	4963.6	5004.9	4935.2	4893.9	4881.1	4804.3	4809.9
55°	5329.2	5343.5	5454.4	5565.4	5730.4	5800.1	5653.5	5525.5	5434.5	5317.8	5323.5
57.5°	5982.2	5989.3	6094.6	6308.0	6569.7	6733.4	6475.9	6222.6	6037.7	5926.7	5882.6
60°	6685.0	6692.1	6845.7	7106.1	7513.0	7712.1	7393.5	6979.5	6746.2	6576.9	6588.2
62.5°	7528.6	7557.1	7695.1	8053.6	8547.3	8770.6	8348.1	7794.6	7478.8	7268.3	7276.8
65°	8432.0	8480.4	8631.2	9025.3	9480.5	9721.0	9203.1	8564.3	8171.7	7914.1	7941.2
67.5°	9018.1	9060.8	9278.5	9713.8	10281.4	10480.6	9811.9	9067.9	8577.1	8269.8	8213.0
70°	8868.8	8904.3	9194.6	9811.9	10652.8	10904.6	9957.1	8993.9	8416.4	8062.1	8039.4
72.5°	7828.8	7754.9	8178.8	9065.1	10228.8	10651.3	9500.4	8214.3	7487.3	7123.2	7080.5
75°	5188.4	5349.1	5975.1	7019.3	8653.9	9177.5	8109.1	6595.4	5680.6	5377.6	5330.7
77.5°	1734.2	1857.9	2414.3	3979.1	5899.7	6686.5	5908.2	4313.5	3051.6	2458.3	2469.7
80°	459.5	453.8	587.5	1094.0	2549.4	3872.5	2967.6	1461.1	799.5	579.0	549.2
82.5°	165.0	184.9	237.6	303.0	675.7	1203.6	849.3	409.7	300.2	221.9	214.8
85°	72.6	71.1	102.4	120.9	169.3	224.8	199.1	173.6	152.2	101.0	93.9
87.5°	15.6	15.6	24.2	18.5	29.9	29.9	37.0	44.1	45.5	29.9	24.2
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)