

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: P529603

Luminaire Tested: **GALN-SA4D-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529603
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-SA4D-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 14870 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

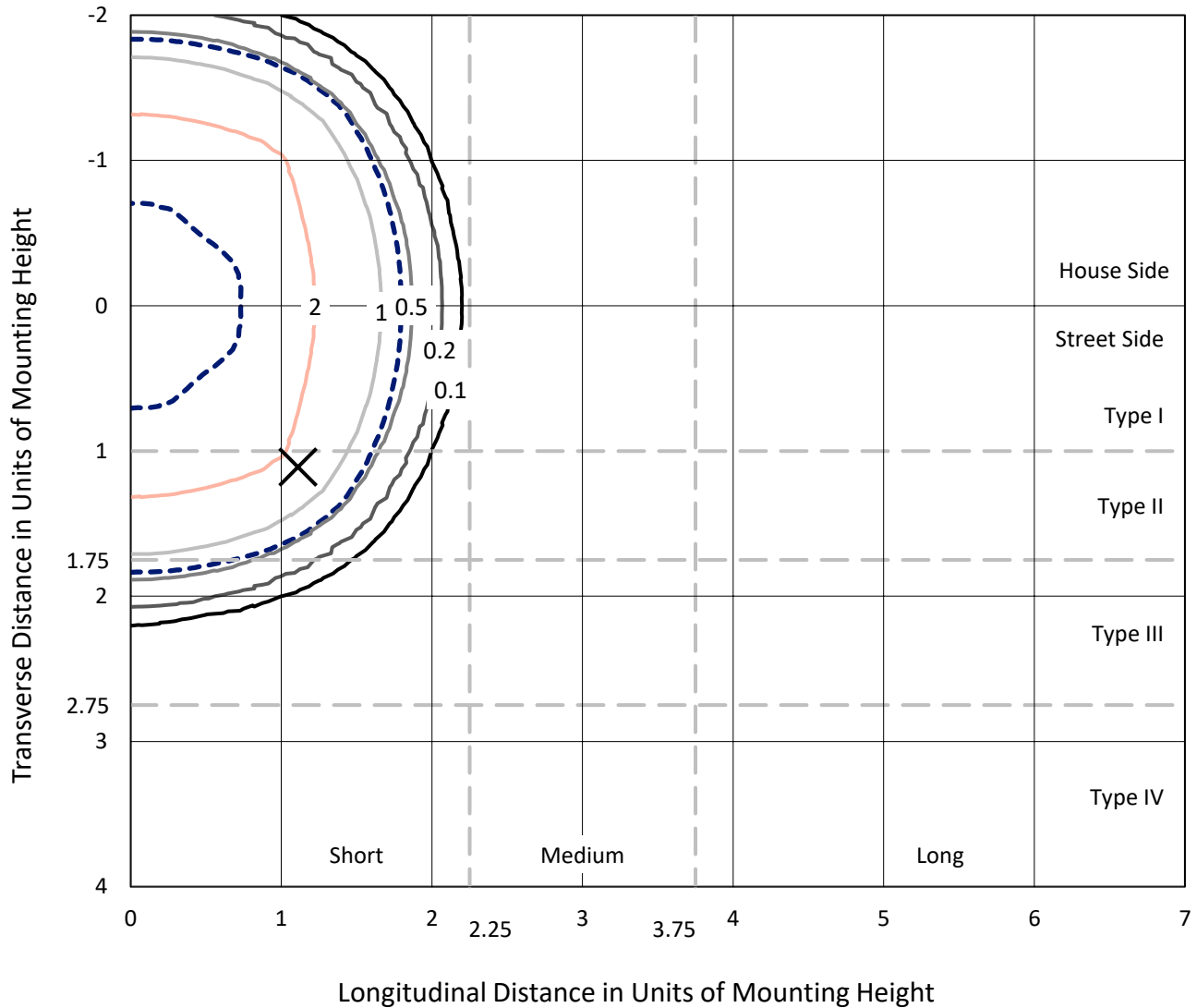
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

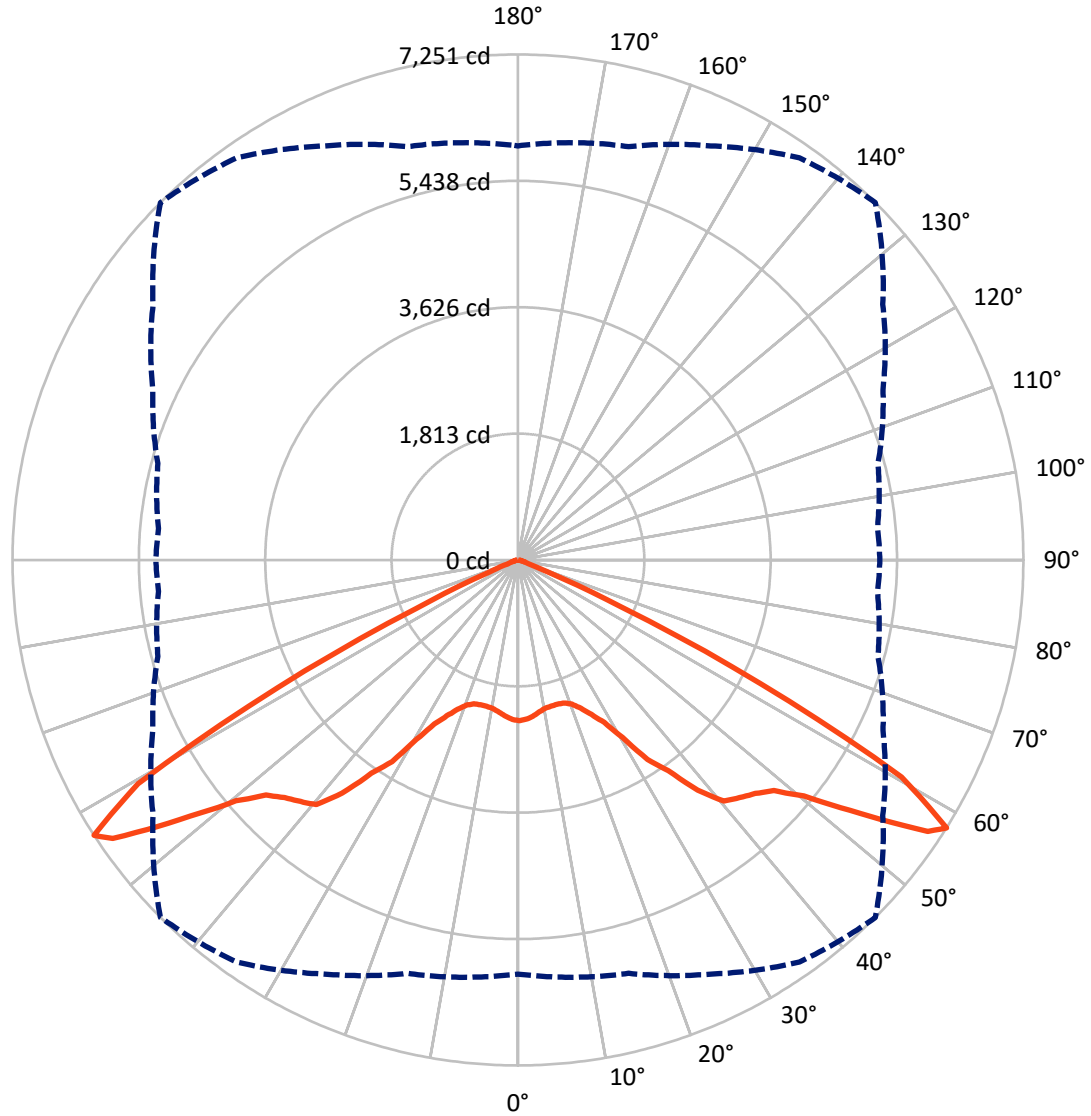
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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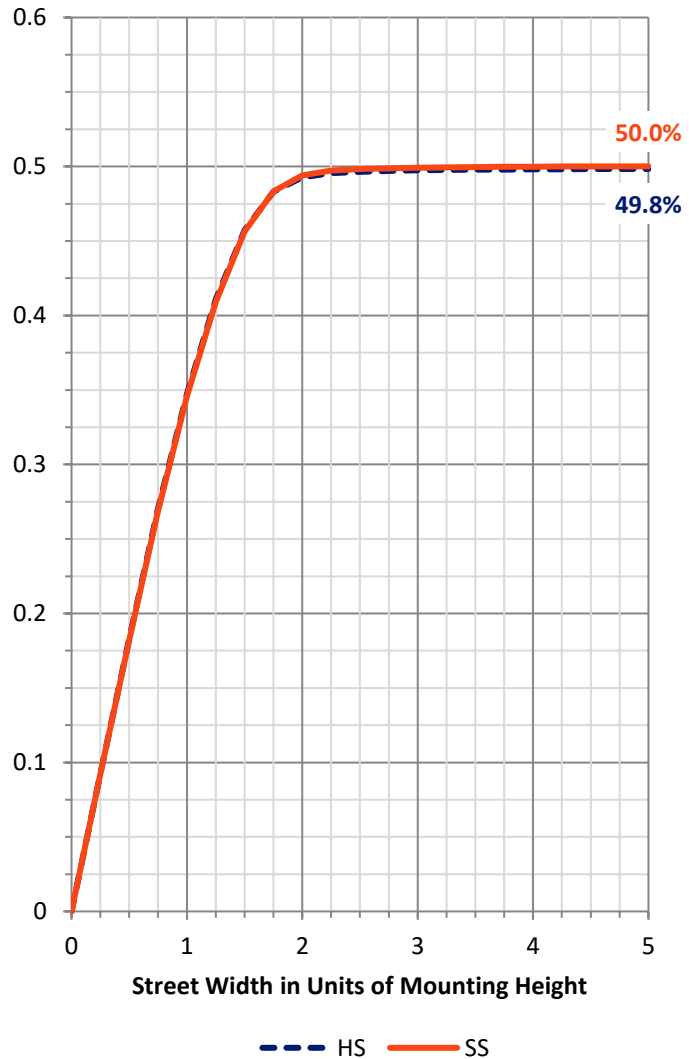
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7435.0	0.0	7435.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7435.0	0.0	7435.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14870.0	0.0	14870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	1.4
10°-20°	612.7	4.1
20°-30°	1130.9	7.6
30°-40°	2224.0	15.0
40°-50°	3622.3	24.4
50°-60°	5165.8	34.7
60°-70°	1788.5	12.0
70°-80°	95.9	0.6
80°-90°	18.0	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°	14870.0	100.0
0°-180°	14870.0	100.0

Coefficient of Utilization

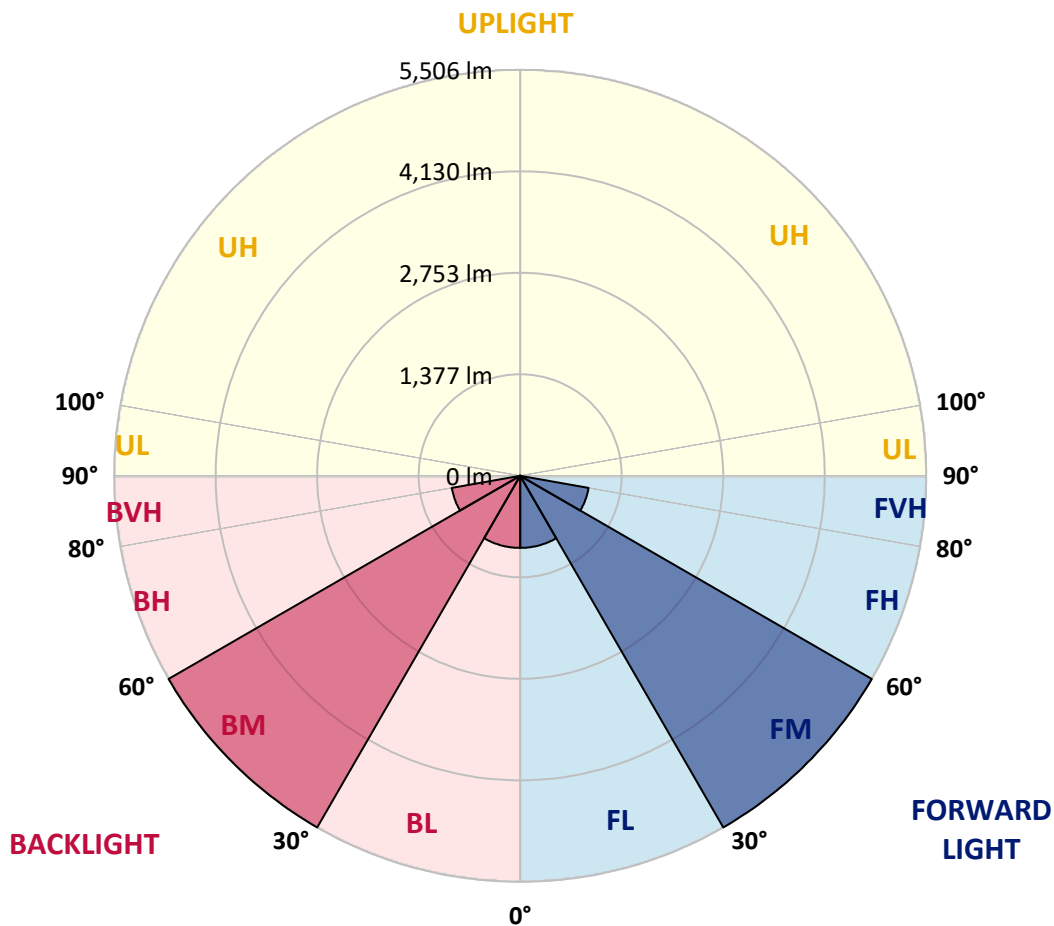


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.7	6.6			
FM (30°-60°)	5506.0	37.0			
FH (60°-80°)	942.2	6.3			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	977.7	6.6	B2/1000		
BM (30°-60°)	5506.0	37.0	B4/8500		
BH (60°-80°)	942.2	6.3	B2/1000		G1/1800
BVH (80°-90°)	9.0	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°	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5
2.5°	2300.3	2312.7	2297.2	2291.0	2287.9	2287.9	2278.6	2278.6	2275.5	2278.6	2266.2
5°	2263.1	2275.5	2275.5	2272.4	2253.8	2250.7	2241.4	2235.2	2238.3	2225.9	2235.2
7.5°	2225.9	2235.2	2222.8	2219.7	2213.5	2201.1	2198.0	2170.1	2173.2	2173.2	2179.4
10°	2219.7	2216.6	2198.0	2182.5	2163.9	2160.8	2151.5	2145.3	2145.3	2142.2	2151.5
12.5°	2219.7	2204.2	2201.1	2167.0	2136.0	2148.4	2123.6	2108.1	2129.8	2136.0	2148.4
15°	2216.6	2232.1	2179.4	2163.9	2142.2	2145.3	2123.6	2108.1	2120.5	2126.7	2136.0
17.5°	2235.2	2225.9	2210.4	2179.4	2170.1	2157.7	2129.8	2117.4	2117.4	2132.9	2136.0
20°	2284.8	2260.0	2229.0	2213.5	2222.8	2207.3	2173.2	2126.7	2139.1	2151.5	2160.8
22.5°	2331.3	2312.7	2291.0	2281.7	2334.4	2309.6	2250.7	2198.0	2179.4	2201.1	2216.6
25°	2421.2	2421.2	2380.9	2393.3	2452.2	2455.3	2387.1	2294.1	2281.7	2291.0	2297.2
27.5°	2604.1	2613.4	2579.3	2591.7	2616.5	2638.2	2579.3	2501.8	2473.9	2470.8	2480.1
30°	2802.5	2821.1	2818.0	2870.7	2942.0	2954.4	2867.6	2740.5	2656.8	2641.3	2653.7
32.5°	3062.9	3072.2	3066.0	3128.0	3320.2	3410.1	3183.8	3004.0	2892.4	2920.3	2892.4
35°	3552.7	3543.4	3475.2	3487.6	3645.7	3710.8	3493.8	3379.1	3326.4	3382.2	3369.8
37.5°	3974.4	3940.3	3884.5	3965.1	4129.4	4188.3	3962.0	3760.5	3664.3	3757.4	3797.7
40°	4330.9	4244.1	4166.6	4247.2	4467.3	4547.9	4216.2	4051.9	4014.7	4082.9	4169.7
42.5°	4631.6	4575.8	4473.5	4479.7	4625.4	4662.6	4396.0	4299.9	4262.7	4371.2	4414.6
45°	4845.5	4792.8	4696.7	4690.5	4802.1	4777.3	4538.6	4473.5	4495.2	4566.5	4588.2
47.5°	4954.0	4981.9	4926.1	4941.6	5000.5	4941.6	4752.5	4752.5	4702.9	4746.3	4724.6
50°	5267.1	5180.3	5251.6	5251.6	5313.6	5319.8	5130.7	5062.5	4929.2	4854.8	4854.8
52.5°	5632.9	5639.1	5667.0	5769.3	5874.7	5964.6	5694.9	5403.5	5180.3	5084.2	5071.8
55°	5933.6	5995.6	6107.2	6299.5	6603.3	6727.3	6262.3	5741.4	5468.6	5319.8	5288.8
56°	6097.9	6039.0	6231.3	6494.8	6891.6	7052.8	6355.3	5809.6	5508.9	5341.5	5338.4
57.5°	5939.8	6004.9	6138.2	6553.7	7040.4	7251.2	6389.4	5778.6	5347.7	5177.2	5192.7
60°	4690.5	4752.5	4932.3	5397.3	6159.9	6324.3	5406.6	4764.9	4380.5	4135.6	4138.7
62.5°	2653.7	2700.2	2839.7	3270.6	3745.0	3903.1	3369.8	2942.0	2675.4	2539.0	2495.6
65°	976.5	957.9	979.6	1199.7	1491.2	1624.5	1401.3	1184.2	1044.7	995.1	976.5
67.5°	365.8	337.9	316.2	337.9	424.7	449.5	412.3	344.1	322.4	331.7	337.9
70°	226.3	213.9	170.5	161.2	158.1	155.0	164.3	173.6	198.4	232.5	238.7
72.5°	158.1	148.8	120.9	114.7	108.5	105.4	120.9	133.3	155.0	179.8	182.9
75°	62.0	65.1	62.0	68.2	71.3	74.4	86.8	96.1	105.4	105.4	102.3
77.5°	12.4	12.4	18.6	24.8	31.0	40.3	58.9	68.2	71.3	68.2	58.9
80°	0.0	0.0	6.2	12.4	24.8	34.1	52.7	58.9	65.1	58.9	46.5
82.5°	0.0	0.0	6.2	15.5	24.8	31.0	49.6	62.0	71.3	65.1	49.6
85°	0.0	0.0	6.2	12.4	18.6	21.7	21.7	15.5	15.5	9.3	6.2
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)