

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: P650778

Luminaire Tested: **GALN-SA3C-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

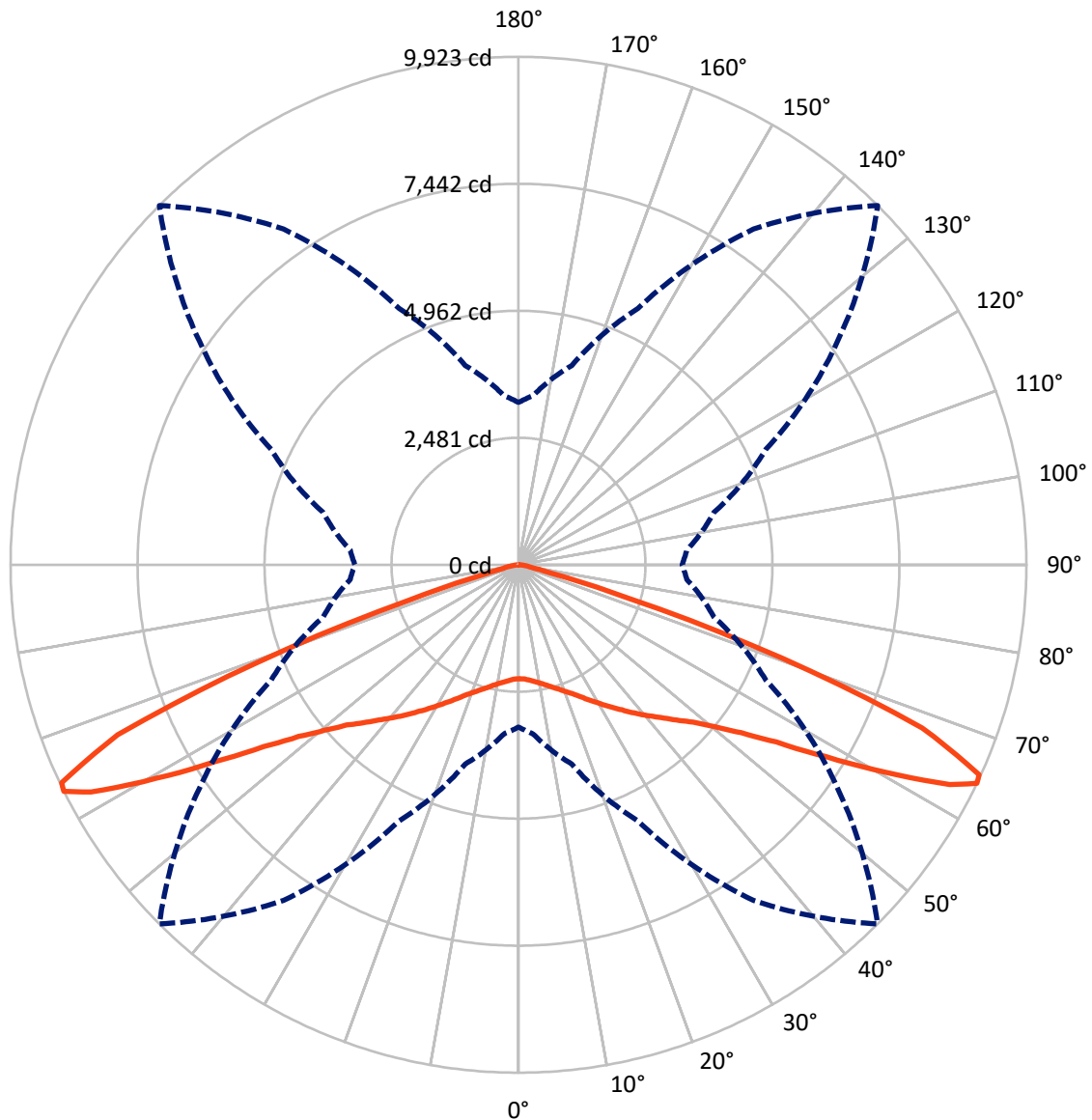
Lumens per Lamp: N/A
Luminaire Lumens: 18420.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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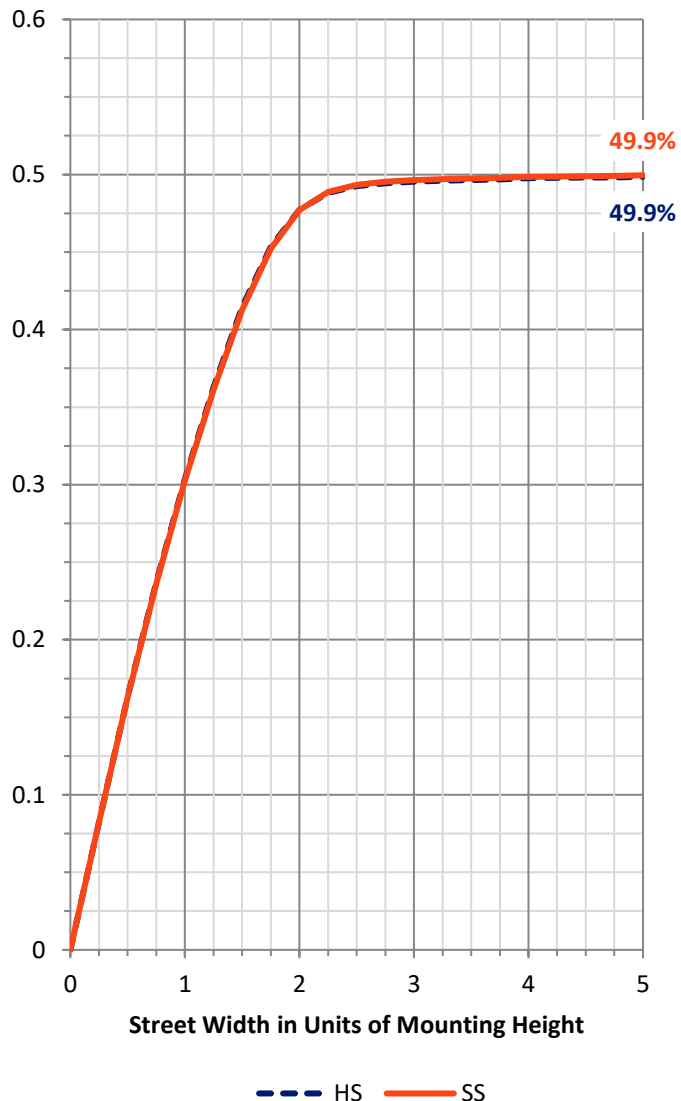
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9210.2	0.0	9210.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9210.2	0.0	9210.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18420.4	0.0	18420.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	1.2
10°-20°	705.5	3.8
20°-30°	1333.3	7.2
30°-40°	2208.1	12.0
40°-50°	3447.1	18.7
50°-60°	5329.2	28.9
60°-70°	4595.3	24.9
70°-80°	520.8	2.8
80°-90°	62.4	0.3
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°	18420.4	100.0
0°-180°	18420.4	100.0

Coefficient of Utilization



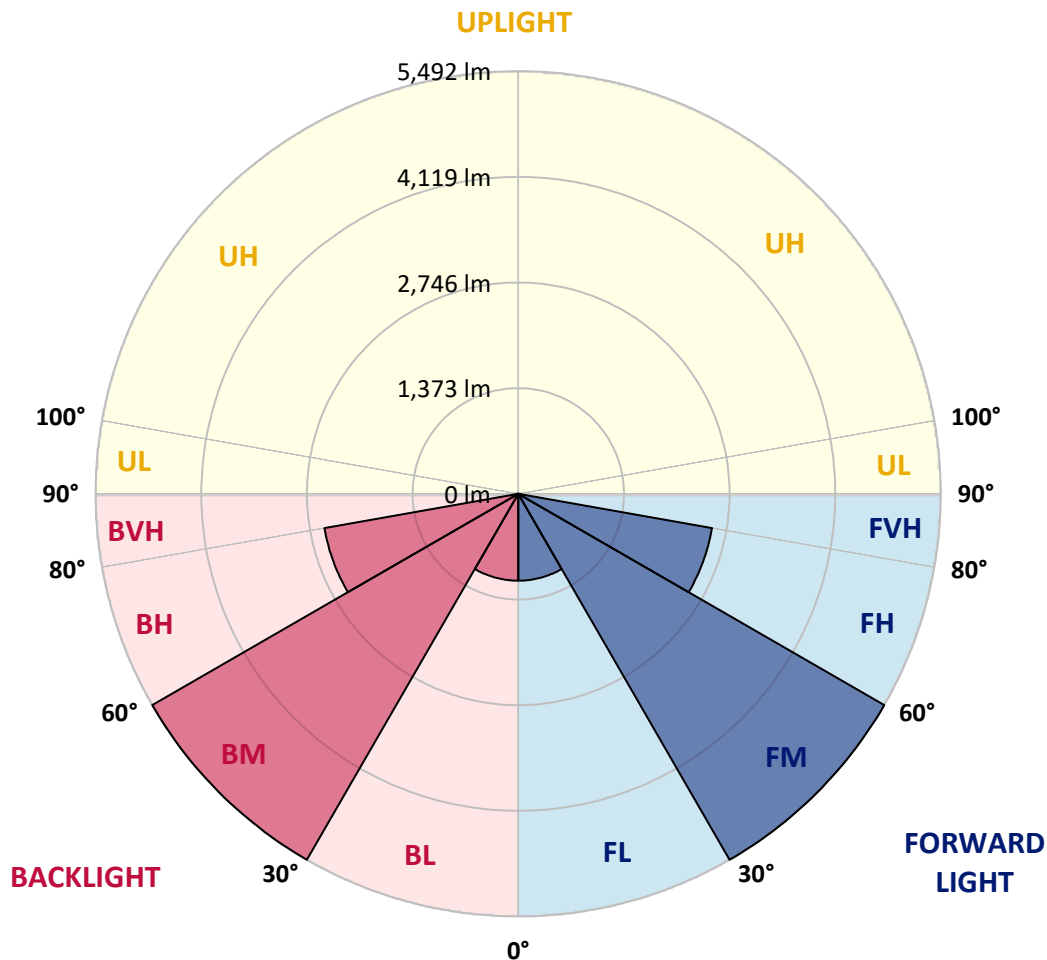
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.8	6.1			
FM (30°-60°)	5492.2	29.8			
FH (60°-80°)	2558.0	13.9			G2/5000
FVH (80°-90°)	31.2	0.2			G1/100
BL (0°-30°)	1128.8	6.1	B3/2500		
BM (30°-60°)	5492.2	29.8	B4/8500		
BH (60°-80°)	2558.0	13.9	B4/5000		G2/5000
BVH (80°-90°)	31.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2235.2	2240.1	2236.1	2235.2	2234.2	2234.2	2234.2	2235.2	2239.1	2242.0	2240.1
5°	2263.5	2267.4	2265.4	2264.5	2263.5	2264.5	2262.5	2261.5	2264.5	2264.5	2263.5
7.5°	2298.6	2303.5	2301.6	2303.5	2304.5	2305.4	2300.6	2296.7	2295.7	2298.6	2296.7
10°	2346.4	2350.3	2351.3	2352.3	2354.2	2353.3	2347.4	2340.6	2339.6	2338.7	2337.6
12.5°	2400.0	2403.0	2404.0	2407.9	2410.8	2411.8	2404.9	2399.1	2389.4	2391.3	2387.4
15°	2460.6	2466.4	2465.5	2471.3	2479.1	2481.0	2474.2	2464.5	2455.7	2450.8	2447.9
17.5°	2534.7	2538.6	2536.7	2542.5	2552.3	2557.1	2551.3	2538.6	2529.8	2519.1	2513.2
20°	2622.5	2629.4	2631.3	2631.3	2640.1	2644.9	2636.2	2632.2	2618.6	2610.8	2605.9
22.5°	2722.1	2725.0	2730.8	2736.7	2745.4	2743.5	2740.6	2734.8	2722.1	2715.3	2707.4
25°	2834.3	2837.2	2851.8	2864.5	2867.4	2865.5	2861.6	2858.6	2847.0	2831.3	2825.4
27.5°	2964.9	2970.8	2990.3	3002.0	3002.0	3003.0	2995.2	3005.0	2979.6	2961.1	2959.1
30°	3128.9	3132.8	3149.4	3161.1	3155.3	3150.4	3148.4	3158.1	3130.9	3097.7	3089.8
32.5°	3290.8	3304.5	3319.2	3344.5	3324.1	3315.2	3313.3	3320.1	3288.9	3251.8	3241.0
35°	3464.5	3474.3	3501.6	3523.0	3504.5	3484.0	3492.8	3514.3	3477.2	3427.4	3425.5
37.5°	3656.8	3665.5	3700.7	3723.0	3709.4	3674.2	3688.9	3714.3	3677.2	3615.7	3603.0
40°	3856.7	3875.2	3919.1	3942.6	3920.2	3873.3	3900.6	3928.0	3894.8	3823.5	3795.3
42.5°	4081.1	4110.4	4173.8	4185.5	4142.6	4079.2	4127.0	4170.9	4147.5	4065.5	4054.8
45°	4343.6	4361.1	4439.2	4464.5	4405.0	4326.0	4385.5	4465.5	4448.0	4353.4	4332.8
47.5°	4637.3	4653.8	4734.8	4772.8	4697.7	4591.4	4698.7	4803.1	4792.4	4690.9	4681.2
50°	4984.5	4988.5	5100.7	5143.6	5068.5	4976.8	5072.4	5202.1	5159.2	5029.4	5027.5
52.5°	5365.1	5370.0	5511.4	5594.3	5552.4	5449.0	5562.1	5641.2	5531.9	5362.1	5349.4
55°	5694.8	5719.2	5912.4	6132.9	6190.4	6115.3	6149.5	6112.4	5843.1	5605.1	5568.0
57.5°	5829.5	5877.2	6170.9	6582.7	6957.3	7068.5	6805.1	6451.9	5967.1	5630.4	5594.3
60°	5500.6	5552.4	6008.0	6789.5	7745.6	8228.6	7488.1	6509.5	5685.1	5211.8	5155.3
62.5°	4405.0	4419.6	5089.9	6302.6	8205.1	9456.0	7775.9	6018.8	4864.6	4221.6	4199.2
64°	3169.9	3320.1	4030.4	5526.0	8004.2	9923.3	7610.0	5330.9	3951.4	3300.6	3195.2
65°	2370.8	2411.8	3248.9	4719.2	7650.0	9888.1	7288.0	4673.4	3272.3	2525.9	2408.9
67.5°	895.7	900.5	1199.1	2352.3	5446.1	8507.6	5562.1	2542.5	1378.6	997.1	961.0
70°	371.7	378.5	440.0	791.2	2340.6	5462.6	2682.0	917.1	504.4	408.8	402.9
72.5°	272.2	276.1	294.6	351.2	720.1	2243.0	882.0	389.3	295.6	264.4	261.5
75°	213.7	215.6	229.3	258.5	335.6	621.5	366.8	267.4	225.4	202.9	201.0
77.5°	162.9	167.8	177.5	197.0	225.4	294.6	243.0	200.0	173.7	155.2	152.2
80°	112.2	118.1	136.6	144.4	151.2	191.2	165.8	151.2	135.7	113.2	106.4
82.5°	69.3	73.2	91.7	98.6	95.6	107.3	106.4	108.3	96.5	70.2	65.3
85°	36.1	38.0	49.8	51.7	47.8	43.9	54.7	63.4	59.5	40.0	39.0
87.5°	7.8	8.7	10.8	9.8	10.8	10.8	13.6	20.5	21.4	13.6	12.7
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)