

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: P648636

Luminaire Tested: **GALN-SA9B-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648636
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-SA9B-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42273.4 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

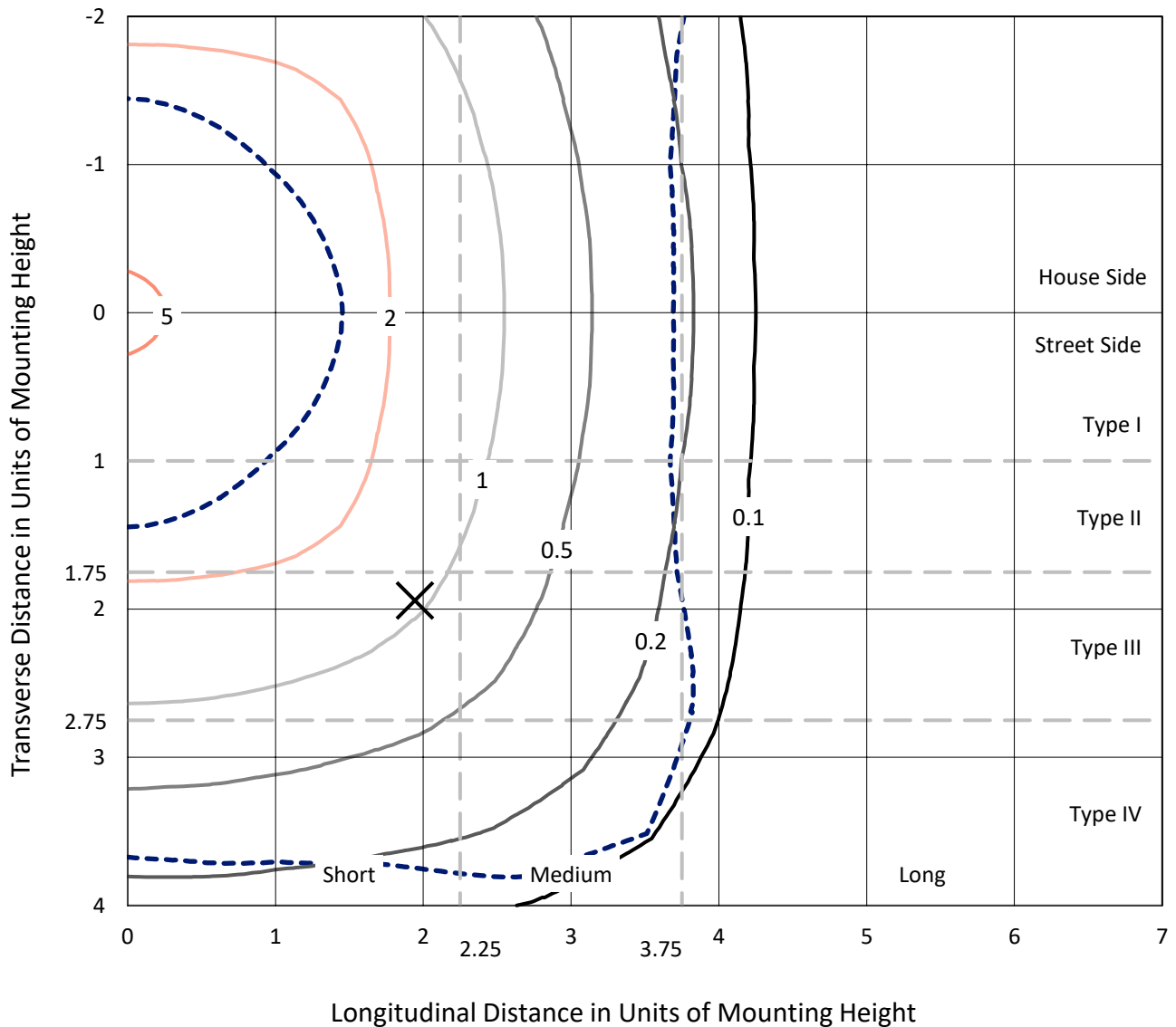
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

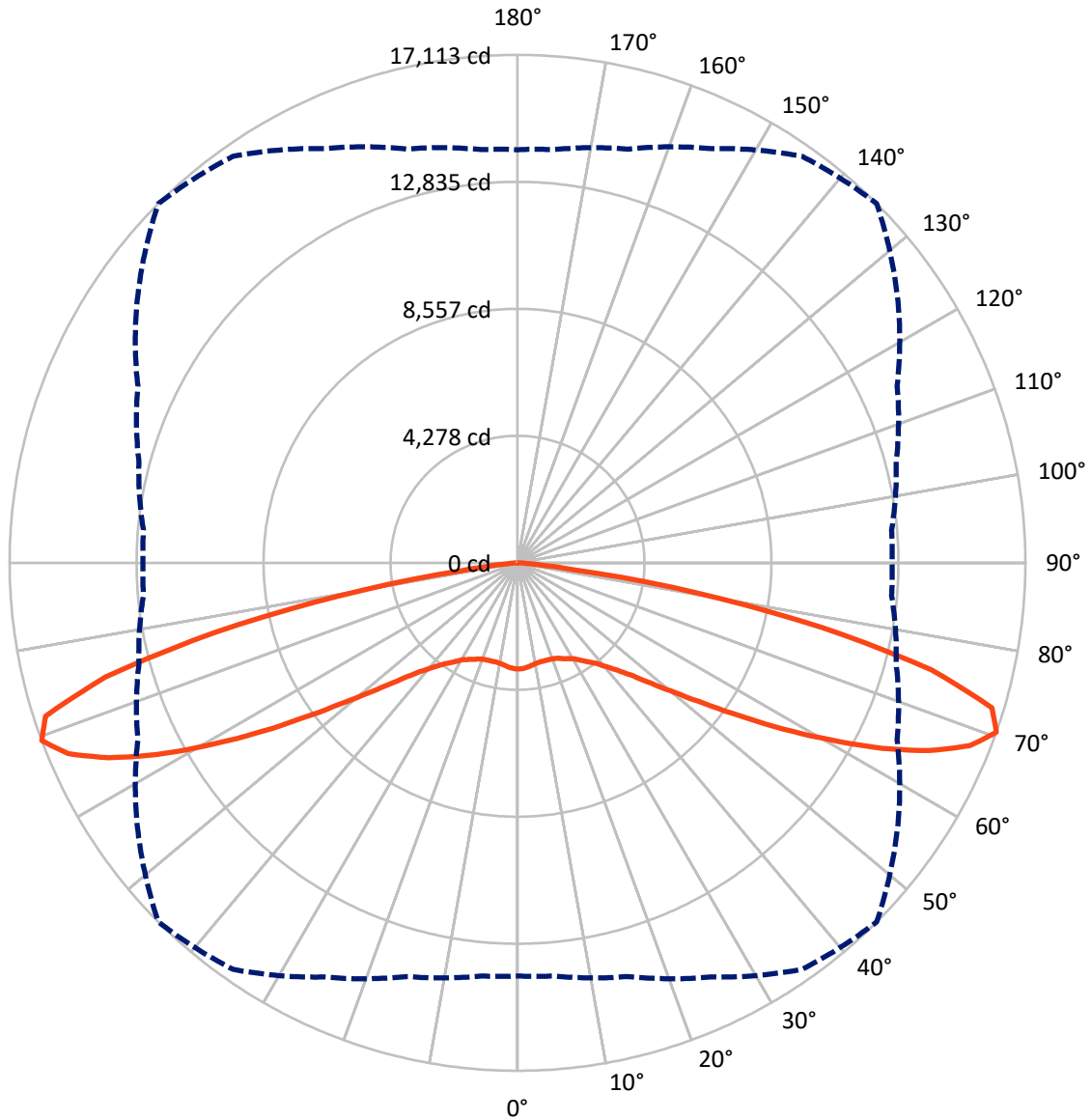
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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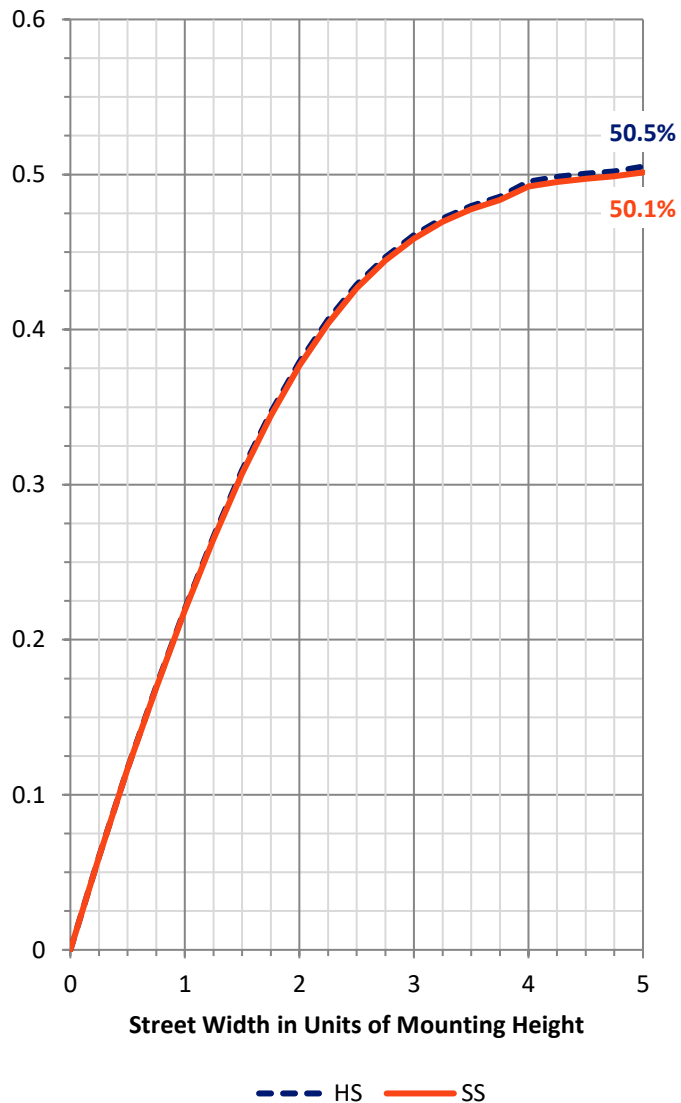
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21136.7	0.0	21136.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21136.7	0.0	21136.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	42273.4	0.0	42273.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	0.8
10°-20°	979.9	2.3
20°-30°	1669.4	3.9
30°-40°	2587.6	6.1
40°-50°	4355.3	10.3
50°-60°	7924.3	18.7
60°-70°	13415.7	31.7
70°-80°	10384.2	24.6
80°-90°	622.2	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°	42273.4	100.0
0°-180°	42273.4	100.0

Coefficient of Utilization



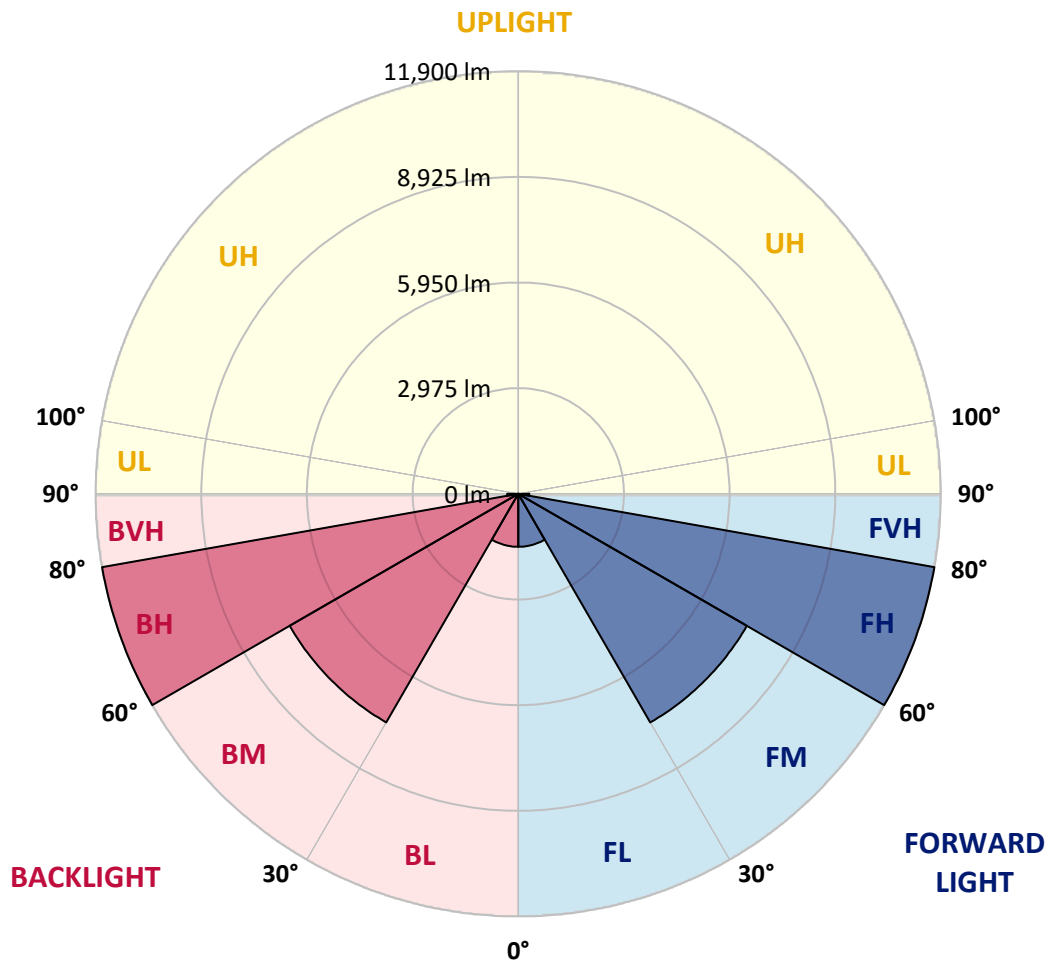
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.0	3.5			
FM (30°-60°)	7433.6	17.6			
FH (60°-80°)	11899.9	28.1			G4/12000
FVH (80°-90°)	311.1	0.7			G3/500
BL (0°-30°)	1492.0	3.5	B3/2500		
BM (30°-60°)	7433.6	17.6	B4/8500		
BH (60°-80°)	11899.9	28.1	B5		G4/12000
BVH (80°-90°)	311.1	0.7			G3/500
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°	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9
2.5°	3570.0	3572.3	3572.3	3567.8	3565.5	3565.5	3563.4	3563.4	3570.0	3572.3	3574.5
5°	3538.8	3538.8	3538.8	3536.6	3532.1	3532.1	3527.6	3527.6	3529.8	3536.6	3532.1
7.5°	3496.3	3500.8	3500.8	3491.9	3485.2	3485.2	3482.9	3485.2	3487.4	3494.1	3491.9
10°	3482.9	3485.2	3474.0	3458.4	3447.2	3440.5	3442.8	3447.2	3458.4	3462.9	3465.1
12.5°	3491.9	3491.9	3471.8	3449.4	3429.4	3420.5	3418.2	3433.8	3454.0	3467.4	3471.8
15°	3503.1	3498.6	3474.0	3445.0	3424.9	3422.6	3420.5	3431.6	3460.6	3487.4	3489.7
17.5°	3509.7	3507.5	3476.3	3440.5	3429.4	3429.4	3427.1	3436.0	3467.4	3500.8	3503.1
20°	3532.1	3525.4	3489.7	3451.7	3442.8	3447.2	3440.5	3451.7	3485.2	3525.4	3534.3
22.5°	3576.7	3570.0	3534.3	3496.3	3491.9	3491.9	3489.7	3500.8	3536.6	3578.9	3585.7
25°	3630.3	3623.6	3590.1	3563.4	3567.8	3576.7	3572.3	3574.5	3603.5	3639.2	3650.4
27.5°	3701.8	3690.6	3661.5	3639.2	3652.6	3652.6	3652.6	3650.4	3668.3	3701.8	3712.9
30°	3788.9	3784.4	3753.1	3750.9	3762.0	3750.9	3750.9	3753.1	3755.3	3786.6	3797.8
32.5°	3902.7	3893.8	3878.1	3873.7	3904.9	3913.8	3882.6	3853.6	3869.2	3900.4	3907.2
35°	4090.2	4076.8	4054.5	4029.9	4054.5	4097.0	4029.9	4007.6	4047.8	4090.2	4094.7
37.5°	4344.8	4338.1	4302.4	4257.7	4255.4	4300.1	4230.9	4228.7	4304.5	4355.9	4362.6
40°	4664.0	4670.8	4626.0	4583.7	4561.4	4597.1	4543.4	4563.6	4637.2	4695.3	4690.8
42.5°	5112.8	5088.2	5019.0	4978.9	4954.3	4940.9	4927.5	4958.7	5041.3	5103.9	5153.0
45°	5637.4	5628.5	5541.4	5492.4	5438.8	5418.7	5414.2	5470.0	5570.5	5646.4	5653.1
47.5°	6231.3	6211.3	6155.5	6104.1	6084.0	6059.5	6037.1	6079.5	6180.0	6233.6	6249.2
50°	6843.1	6847.6	6847.6	6838.6	6858.8	6863.2	6802.9	6818.5	6874.3	6869.9	6865.4
52.5°	7541.9	7566.5	7682.6	7693.8	7789.8	7854.5	7745.1	7680.4	7660.2	7539.7	7548.7
55°	8363.5	8385.9	8560.1	8734.2	8993.1	9102.5	8872.6	8671.6	8528.7	8345.7	8354.6
57.5°	9388.3	9399.5	9564.7	9899.6	10310.5	10567.2	10163.1	9765.7	9475.4	9301.3	9232.0
60°	10491.3	10502.5	10743.5	11152.2	11790.7	12103.3	11603.1	10953.5	10587.3	10321.6	10339.4
62.5°	11815.2	11859.9	12076.4	12639.1	13413.8	13764.4	13101.2	12232.7	11737.1	11406.7	11420.1
65°	13233.0	13308.9	13545.6	14164.0	14878.5	15255.8	14443.1	13440.7	12824.4	12420.3	12462.7
67.5°	14152.9	14219.8	14561.5	15244.6	16135.4	16448.0	15398.7	14231.0	13460.7	12978.5	12889.2
70°	13918.5	13974.3	14429.7	15398.7	16718.2	17113.4	15626.4	14114.9	13208.4	12652.5	12616.8
72.5°	12286.4	12170.2	12835.6	14226.6	16052.8	16716.0	14909.7	12891.4	11750.5	11179.0	11111.9
75°	8142.5	8394.8	9377.2	11015.9	13581.3	14402.9	12726.2	10350.6	8915.0	8439.5	8365.8
77.5°	2721.6	2915.9	3788.9	6244.7	9258.8	10493.5	9272.3	6769.4	4789.1	3858.1	3875.9
80°	721.1	712.2	922.1	1716.9	4000.9	6077.3	4657.4	2292.9	1254.8	908.7	861.8
82.5°	259.0	290.3	372.9	475.6	1060.5	1888.8	1332.9	643.0	471.1	348.3	337.2
85°	113.8	111.7	160.7	189.8	265.7	352.7	312.6	272.4	238.9	158.6	147.4
87.5°	24.6	24.6	38.0	29.0	46.9	46.9	58.0	69.2	71.4	46.9	38.0
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)