

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: P652541

Luminaire Tested: **GALN-SA8B-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652541
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-SA8B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 40443.7 lumens
Efficiency: N/A
Efficacy: 124.4 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

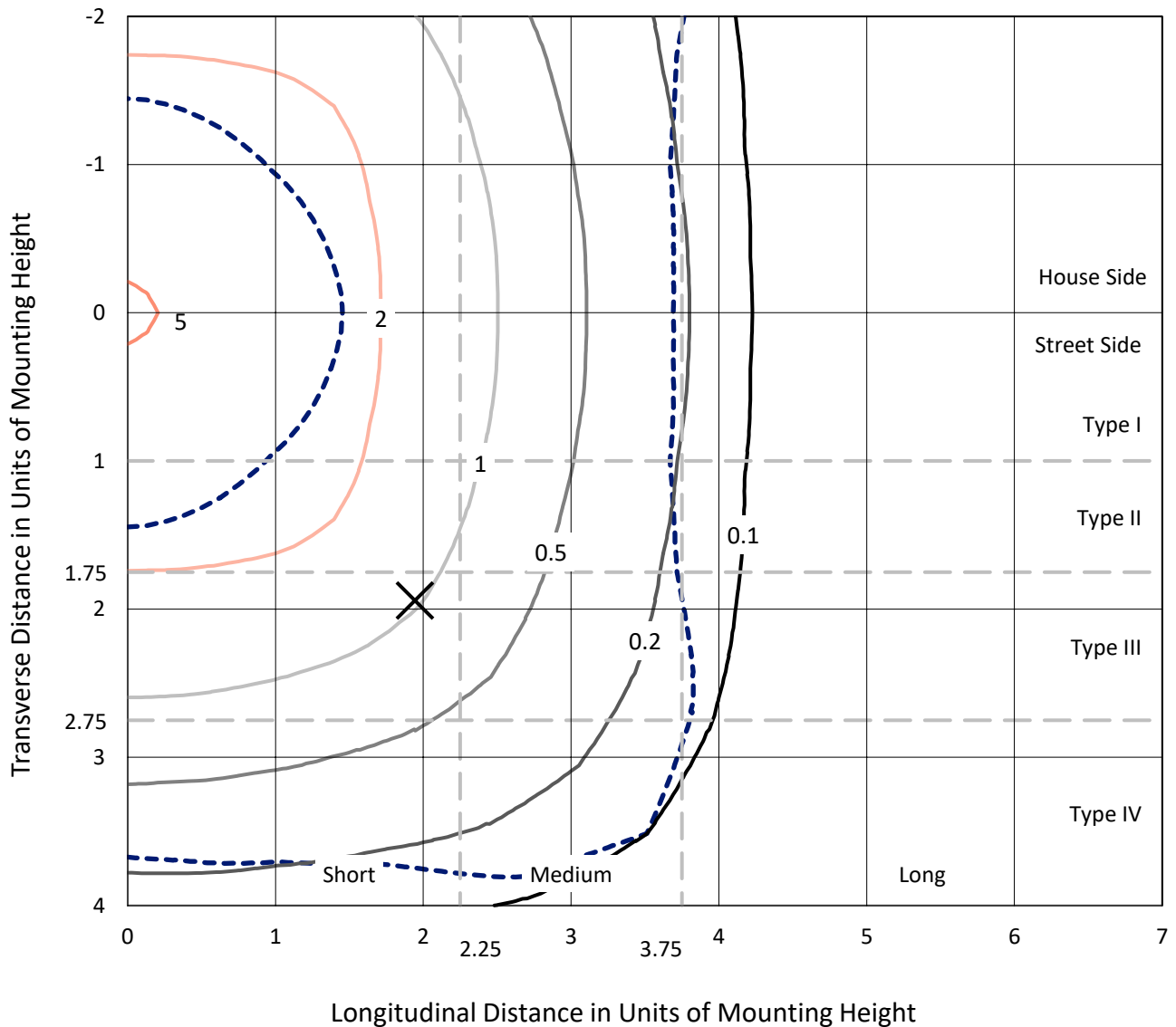
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

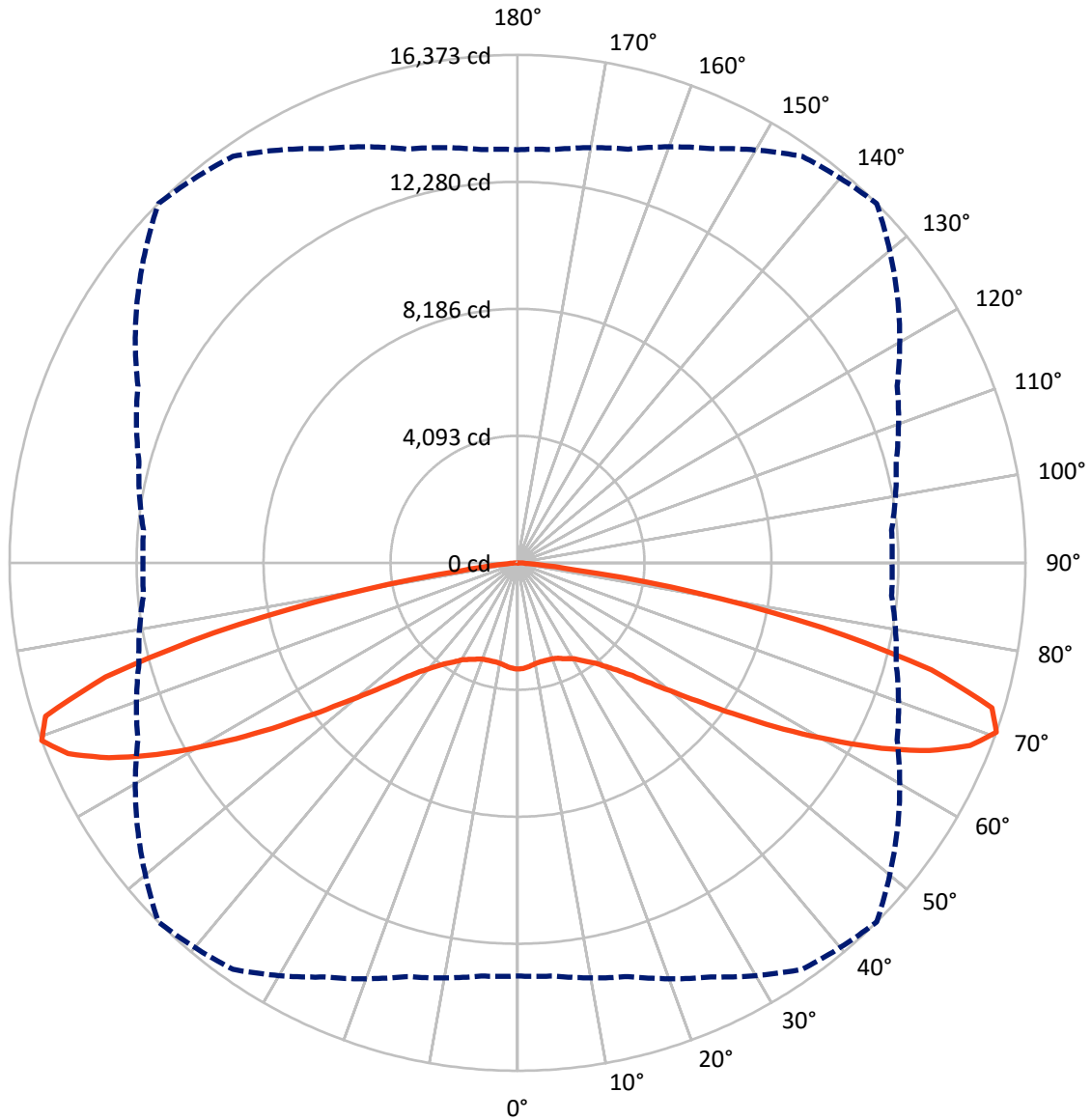
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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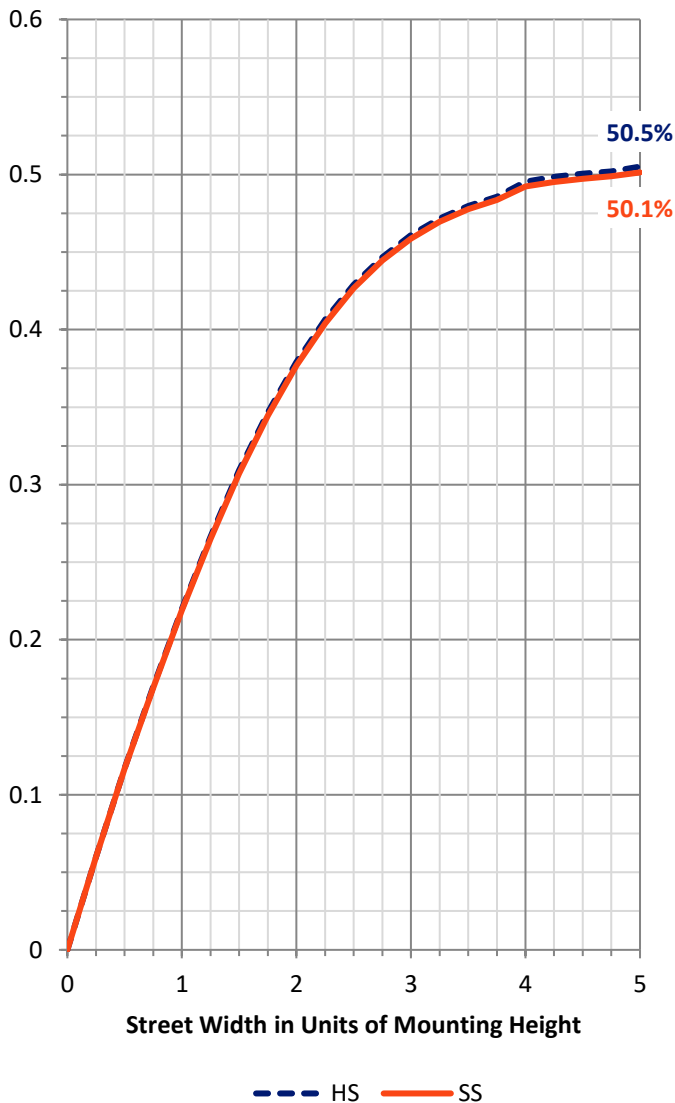
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20221.8	0.0	20221.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20221.8	0.0	20221.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	40443.7	0.0	40443.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.2	0.8
10°-20°	937.4	2.3
20°-30°	1597.2	3.9
30°-40°	2475.6	6.1
40°-50°	4166.8	10.3
50°-60°	7581.3	18.7
60°-70°	12835.0	31.7
70°-80°	9934.8	24.6
80°-90°	595.3	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°	40443.7	100.0
0°-180°	40443.7	100.0

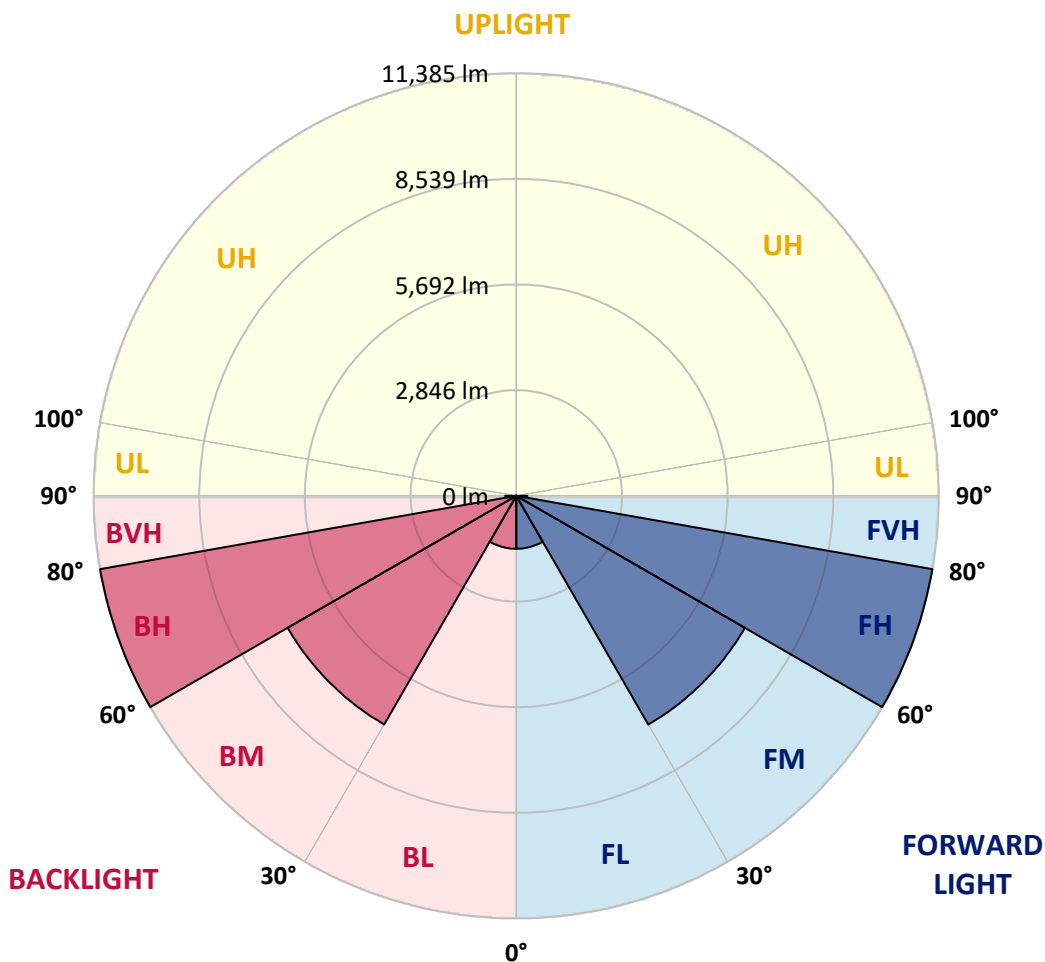


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.4	3.5			
FM (30°-60°)	7111.9	17.6			
FH (60°-80°)	11384.9	28.1			G4/12000
FVH (80°-90°)	297.7	0.7			G3/500
BL (0°-30°)	1427.4	3.5	B3/2500		
BM (30°-60°)	7111.9	17.6	B4/8500		
BH (60°-80°)	11384.9	28.1	B5		G4/12000
BVH (80°-90°)	297.7	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°	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0
2.5°	3415.5	3417.7	3417.7	3413.4	3411.3	3411.3	3409.1	3409.1	3415.5	3417.7	3419.8
5°	3385.6	3385.6	3385.6	3383.4	3379.2	3379.2	3374.9	3374.9	3377.0	3383.4	3379.2
7.5°	3345.0	3349.3	3349.3	3340.8	3334.3	3334.3	3332.2	3334.3	3336.5	3342.9	3340.8
10°	3332.2	3334.3	3323.6	3308.7	3298.1	3291.6	3293.8	3298.1	3308.7	3313.0	3315.1
12.5°	3340.8	3340.8	3321.5	3300.2	3280.9	3272.4	3270.2	3285.2	3304.5	3317.2	3321.5
15°	3351.5	3347.2	3323.6	3295.9	3276.7	3274.5	3272.4	3283.1	3310.8	3336.5	3338.6
17.5°	3357.9	3355.7	3325.8	3291.6	3280.9	3280.9	3278.8	3287.4	3317.2	3349.3	3351.5
20°	3379.2	3372.8	3338.6	3302.3	3293.8	3298.1	3291.6	3302.3	3334.3	3372.8	3381.3
22.5°	3421.9	3415.5	3381.3	3345.0	3340.8	3340.8	3338.6	3349.3	3383.4	3424.0	3430.4
25°	3473.2	3466.8	3434.7	3409.1	3413.4	3421.9	3417.7	3419.8	3447.5	3481.7	3492.4
27.5°	3541.5	3530.9	3503.1	3481.7	3494.5	3494.5	3494.5	3492.4	3509.5	3541.5	3552.2
30°	3624.9	3620.6	3590.6	3588.5	3599.2	3588.5	3588.5	3590.6	3592.8	3622.7	3633.4
32.5°	3733.8	3725.2	3710.2	3706.0	3735.9	3744.5	3714.5	3686.8	3701.7	3731.6	3738.1
35°	3913.2	3900.4	3879.0	3855.6	3879.0	3919.6	3855.6	3834.2	3872.6	3913.2	3917.5
37.5°	4156.7	4150.3	4116.1	4073.4	4071.3	4114.0	4047.7	4045.6	4118.3	4167.4	4173.8
40°	4462.2	4468.6	4425.8	4385.2	4363.9	4398.1	4346.8	4366.1	4436.5	4492.0	4487.8
42.5°	4891.5	4868.0	4801.8	4763.3	4739.9	4727.0	4714.2	4744.1	4823.1	4882.9	4929.9
45°	5393.5	5384.9	5301.7	5254.7	5203.4	5184.2	5179.9	5233.3	5329.4	5402.0	5408.4
47.5°	5961.7	5942.4	5889.0	5839.9	5820.6	5797.2	5775.8	5816.4	5912.6	5963.8	5978.8
50°	6546.9	6551.2	6551.2	6542.6	6561.9	6566.2	6508.5	6523.5	6576.9	6572.6	6568.3
52.5°	7215.5	7239.0	7350.1	7360.8	7452.6	7514.6	7409.9	7347.9	7328.7	7213.3	7221.9
55°	8001.5	8022.9	8189.6	8356.2	8603.9	8708.6	8488.5	8296.3	8159.6	7984.5	7993.0
57.5°	8982.0	8992.6	9150.8	9471.2	9864.2	10109.8	9723.2	9343.0	9065.3	8898.7	8832.5
60°	10037.2	10047.8	10278.5	10669.4	11280.3	11579.4	11100.9	10479.4	10129.1	9874.9	9891.9
62.5°	11303.9	11346.6	11553.7	12092.1	12833.2	13168.6	12534.2	11703.3	11229.1	10913.0	10925.8
65°	12660.2	12732.8	12959.3	13550.9	14234.5	14595.5	13818.0	12858.9	12269.3	11882.7	11923.3
67.5°	13540.3	13604.4	13931.2	14584.8	15437.1	15736.1	14732.2	13615.0	12878.1	12416.7	12331.3
70°	13316.0	13369.4	13805.2	14732.2	15994.6	16372.7	14950.0	13503.9	12636.8	12104.8	12070.7
72.5°	11754.6	11643.5	12280.0	13610.7	15358.0	15992.5	14264.4	12333.4	11241.9	10695.1	10631.0
75°	7790.1	8031.5	8971.3	10539.2	12993.4	13779.5	12175.3	9902.6	8529.2	8074.2	8003.7
77.5°	2603.8	2789.7	3624.9	5974.5	8858.1	10039.4	8871.0	6476.5	4581.8	3691.1	3708.1
80°	690.0	681.4	882.2	1642.6	3827.7	5814.3	4455.8	2193.7	1200.4	869.3	824.5
82.5°	247.8	277.7	356.8	455.0	1014.6	1807.1	1275.2	615.2	450.7	333.2	322.5
85°	108.9	106.8	153.8	181.6	254.2	337.5	299.1	260.6	228.6	151.6	141.0
87.5°	23.5	23.5	36.3	27.8	44.8	44.8	55.5	66.2	68.4	44.8	36.3
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)