

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: P652040

Luminaire Tested: **GALN-SA8A-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32572.8 lumens
Efficiency: N/A
Efficacy: 133.5 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

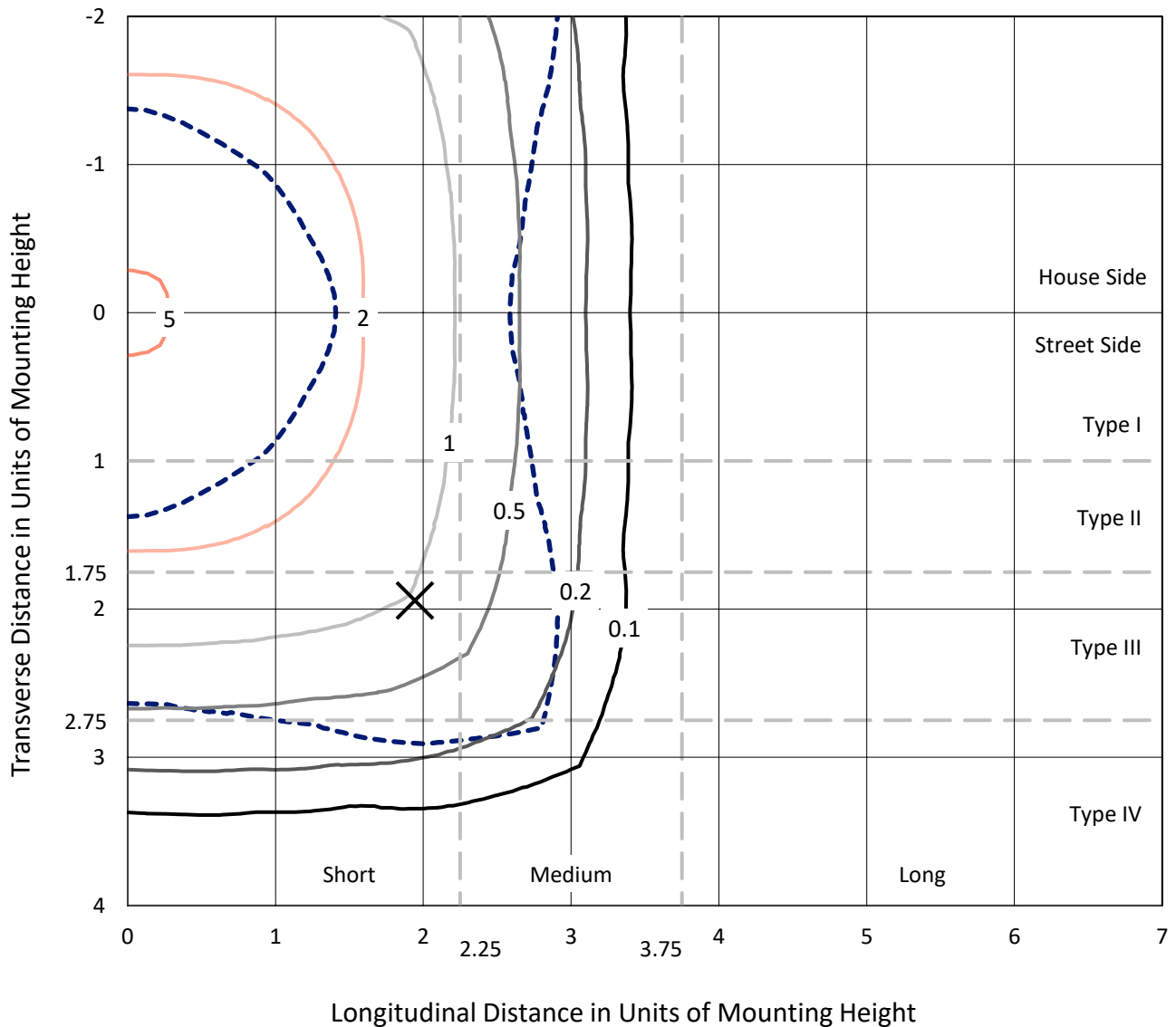
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

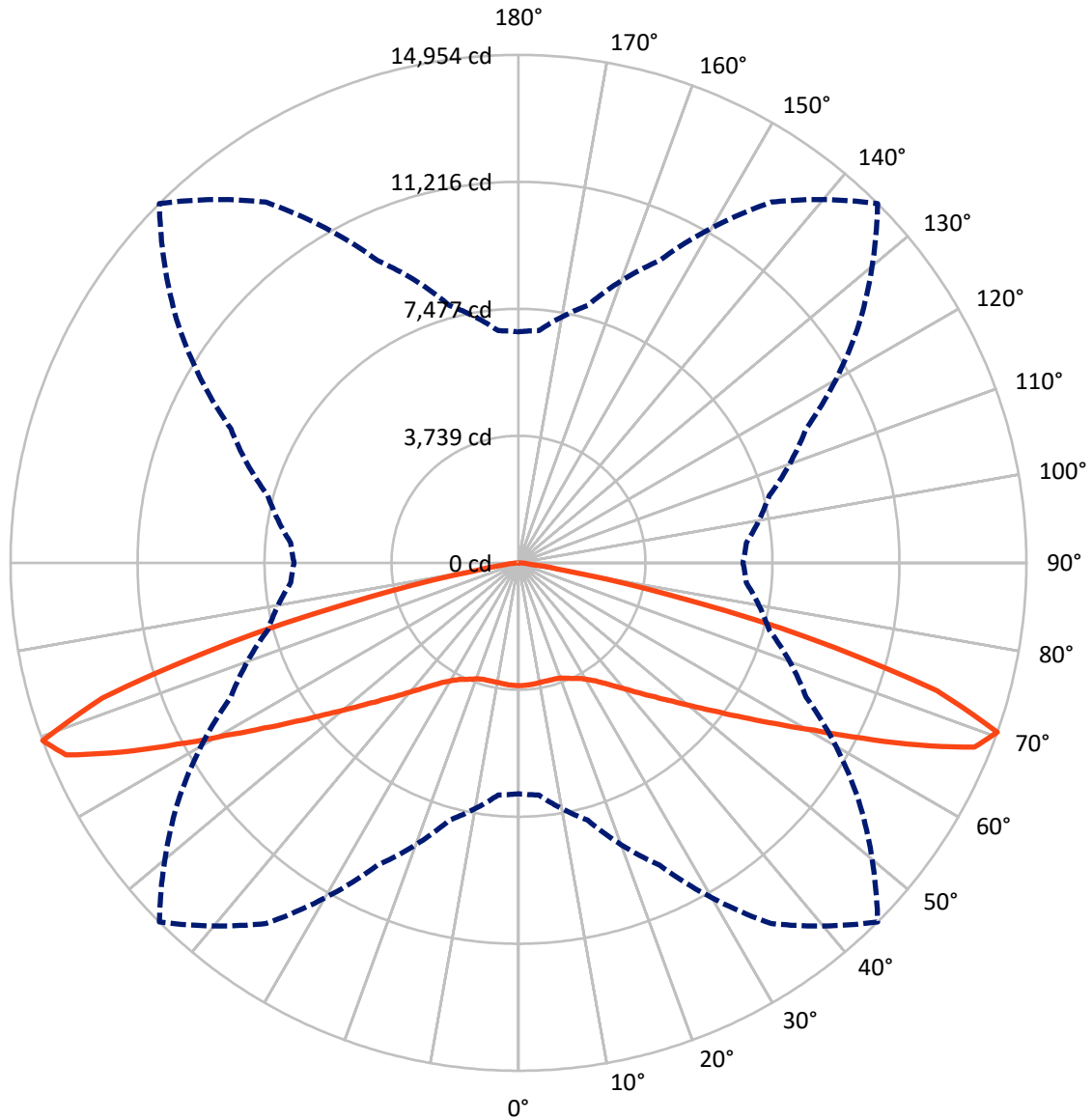
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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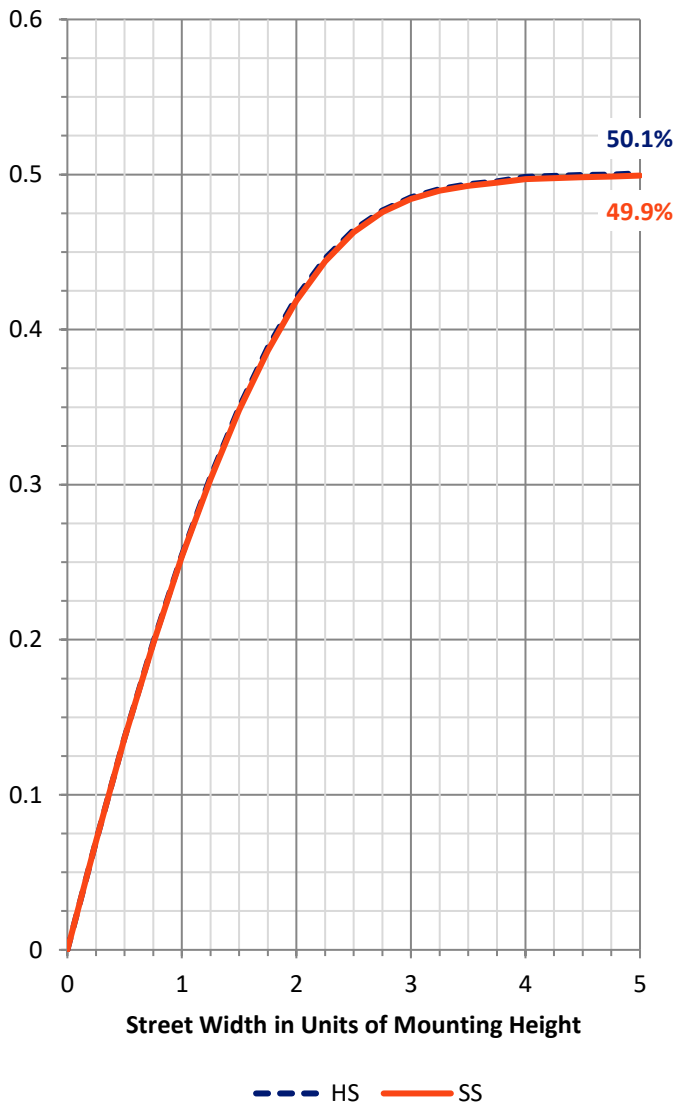
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16286.4	0.0	16286.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16286.4	0.0	16286.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	32572.8	0.0	32572.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	1.1
10°-20°	1006.5	3.1
20°-30°	1721.4	5.3
30°-40°	2732.3	8.4
40°-50°	4407.9	13.5
50°-60°	7171.8	22.0
60°-70°	10396.5	31.9
70°-80°	4611.5	14.2
80°-90°	181.9	0.6
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°	32572.8	100.0
0°-180°	32572.8	100.0



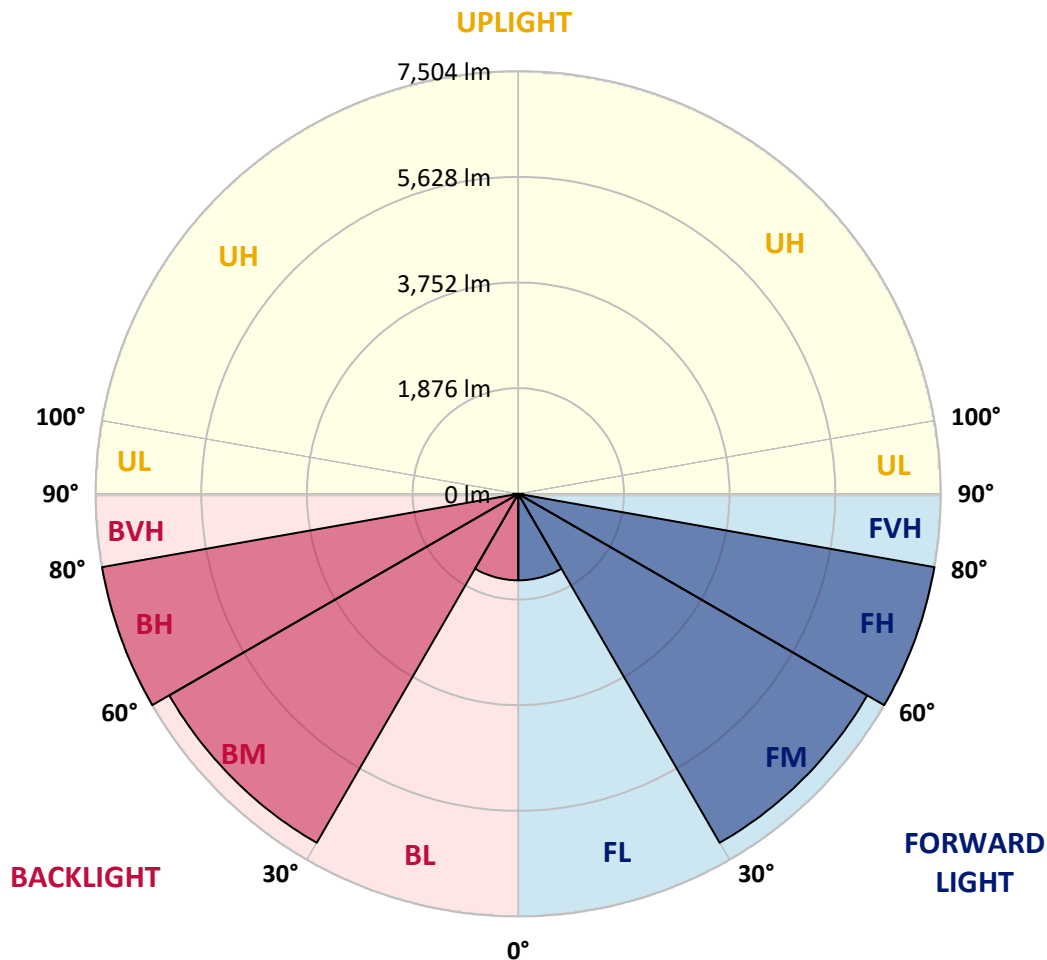
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.5	4.7			
FM (30°-60°)	7156.0	22.0			
FH (60°-80°)	7504.0	23.0			G4/12000
FVH (80°-90°)	90.9	0.3			G1/100
BL (0°-30°)	1535.5	4.7	B3/2500		
BM (30°-60°)	7156.0	22.0	B4/8500		
BH (60°-80°)	7504.0	23.0	B5		G4/12000
BVH (80°-90°)	90.9	0.3			G1/100
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°	3617.1	3617.1	3617.1	3617.1	3617.1	3617.1	3617.1	3617.1	3617.1	3617.1	3617.1
2.5°	3617.1	3620.5	3615.4	3611.9	3610.2	3610.2	3608.5	3610.2	3620.5	3622.2	3617.1
5°	3606.7	3610.2	3608.5	3605.0	3603.3	3603.3	3601.6	3599.9	3608.5	3611.9	3610.2
7.5°	3593.0	3594.8	3593.0	3591.3	3593.0	3591.3	3586.2	3582.7	3589.6	3589.6	3587.9
10°	3569.0	3572.4	3570.7	3572.4	3575.8	3575.8	3569.0	3562.1	3563.8	3560.4	3560.4
12.5°	3539.8	3545.0	3546.7	3553.6	3562.1	3572.4	3557.0	3541.5	3538.1	3536.4	3534.6
15°	3520.9	3526.1	3533.0	3539.8	3555.2	3577.5	3555.2	3531.2	3524.4	3517.5	3514.0
17.5°	3515.8	3522.6	3533.0	3543.2	3563.8	3586.2	3567.3	3543.2	3526.1	3515.8	3512.4
20°	3529.5	3534.6	3550.1	3569.0	3598.1	3620.5	3601.6	3575.8	3550.1	3534.6	3529.5
22.5°	3557.0	3565.6	3584.4	3618.7	3659.9	3692.6	3666.8	3624.0	3582.7	3562.1	3555.2
25°	3617.1	3624.0	3646.2	3692.6	3740.7	3771.5	3744.0	3694.3	3637.7	3610.2	3601.6
27.5°	3708.1	3718.3	3742.4	3797.3	3836.8	3854.0	3835.0	3800.7	3759.5	3730.3	3723.5
30°	3836.8	3848.8	3884.8	3943.2	3968.9	3979.3	3970.7	3948.4	3919.2	3888.3	3881.4
32.5°	4010.1	4017.0	4058.2	4113.2	4137.2	4140.7	4130.3	4120.1	4072.0	4020.5	4017.0
35°	4204.2	4216.2	4266.0	4331.2	4353.5	4355.2	4334.6	4319.2	4262.5	4221.3	4221.3
37.5°	4461.7	4466.8	4514.9	4588.7	4612.7	4605.8	4595.6	4581.9	4521.7	4468.6	4470.3
40°	4763.8	4774.1	4815.3	4901.1	4901.1	4892.5	4899.4	4889.2	4829.0	4777.6	4779.2
42.5°	5122.6	5127.7	5177.5	5268.5	5261.6	5244.5	5251.4	5237.6	5199.8	5141.5	5120.8
45°	5505.4	5526.0	5611.8	5699.4	5685.7	5630.7	5658.2	5654.7	5620.4	5532.9	5538.0
47.5°	5967.2	6001.5	6084.0	6188.7	6173.2	6087.3	6118.3	6138.9	6090.8	5994.6	5977.5
50°	6487.4	6509.7	6631.5	6729.4	6715.6	6624.6	6695.0	6698.5	6578.3	6442.7	6442.7
52.5°	7041.9	7064.1	7229.0	7381.7	7390.3	7258.2	7314.8	7311.3	7115.6	6937.2	6902.8
55°	7663.3	7673.5	7886.5	8111.4	8159.4	8030.6	8037.5	7968.8	7714.7	7507.0	7488.2
57.5°	8305.3	8343.1	8578.3	8870.1	9012.6	8933.6	8897.6	8713.9	8468.4	8229.8	8217.7
60°	9016.0	9017.7	9323.3	9668.4	9956.8	10010.0	9862.3	9616.8	9299.3	8983.4	8969.7
62.5°	9508.7	9582.5	9968.8	10552.4	11069.2	11367.9	10978.2	10463.2	9838.4	9328.5	9277.0
65°	9610.0	9659.8	10248.6	11237.4	12293.1	12936.9	12035.6	10940.4	9874.3	9194.6	9160.3
67.5°	8791.1	8844.4	9637.4	11155.0	13151.5	14471.7	12722.3	10710.4	9263.2	8422.0	8355.1
70°	6799.8	6859.9	7840.1	9819.4	12961.0	14954.1	12233.1	9342.2	7639.2	6731.1	6609.3
72.5°	3615.4	3836.8	4674.5	6739.7	10519.8	12875.1	10030.6	6817.0	4926.9	4027.4	3866.0
75°	1320.1	1347.6	1814.5	2988.7	6120.0	8828.9	6355.2	3251.4	1869.5	1443.7	1369.9
77.5°	545.9	544.2	597.4	903.0	2223.1	4521.7	2480.6	954.5	595.7	551.0	544.2
80°	322.8	322.8	355.3	375.9	585.4	1364.8	654.0	425.7	357.1	326.1	331.4
82.5°	144.2	152.8	224.9	236.9	283.2	374.2	315.9	271.2	233.5	161.4	145.9
85°	79.0	68.6	118.4	123.6	135.7	139.0	149.4	147.6	135.7	79.0	80.7
87.5°	15.5	18.9	34.3	25.7	29.2	25.7	34.3	48.1	49.8	27.5	22.3
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)