

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: P456978

Luminaire Tested: **GALN-SA8B-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456978
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-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 48090 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

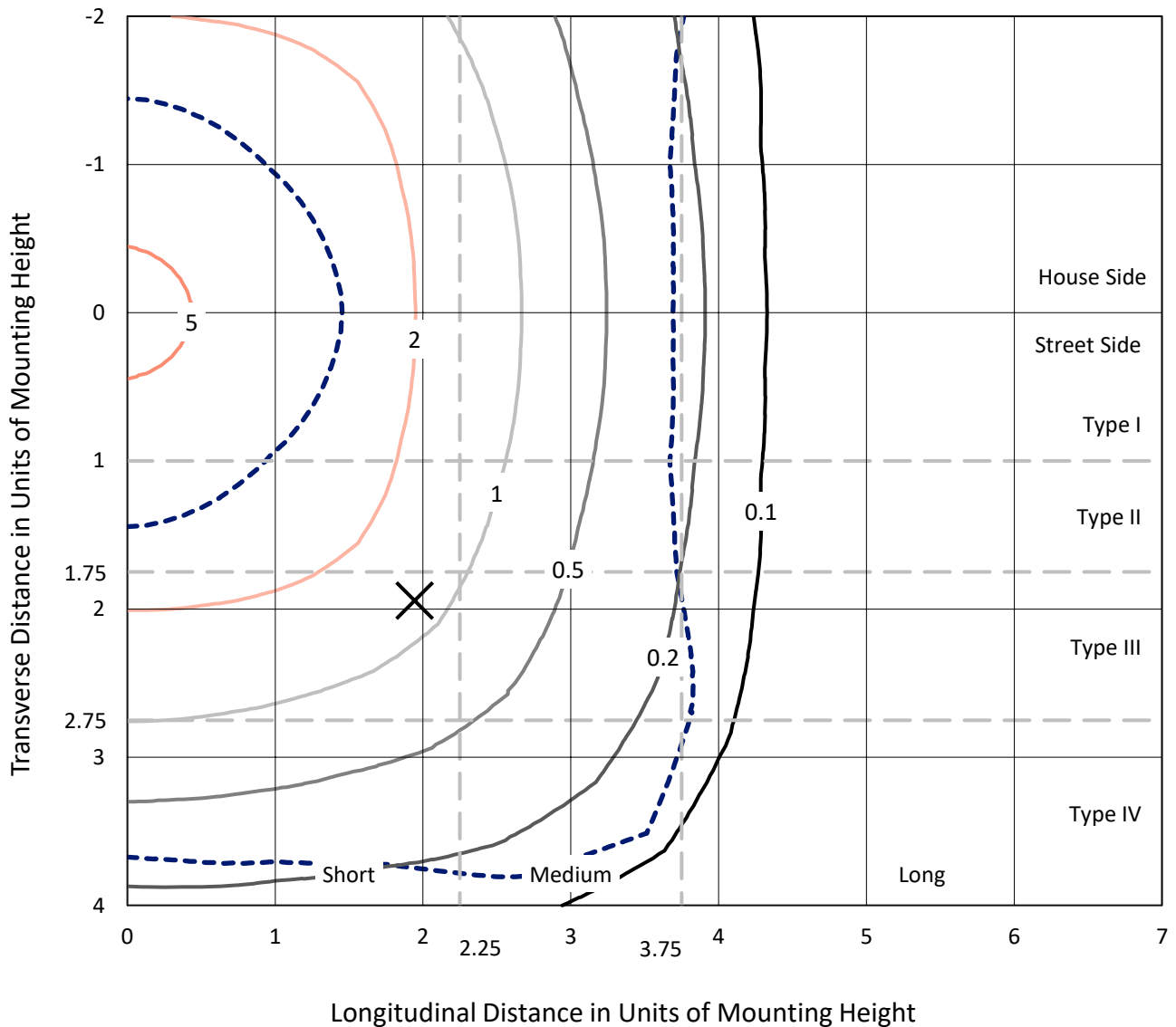
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

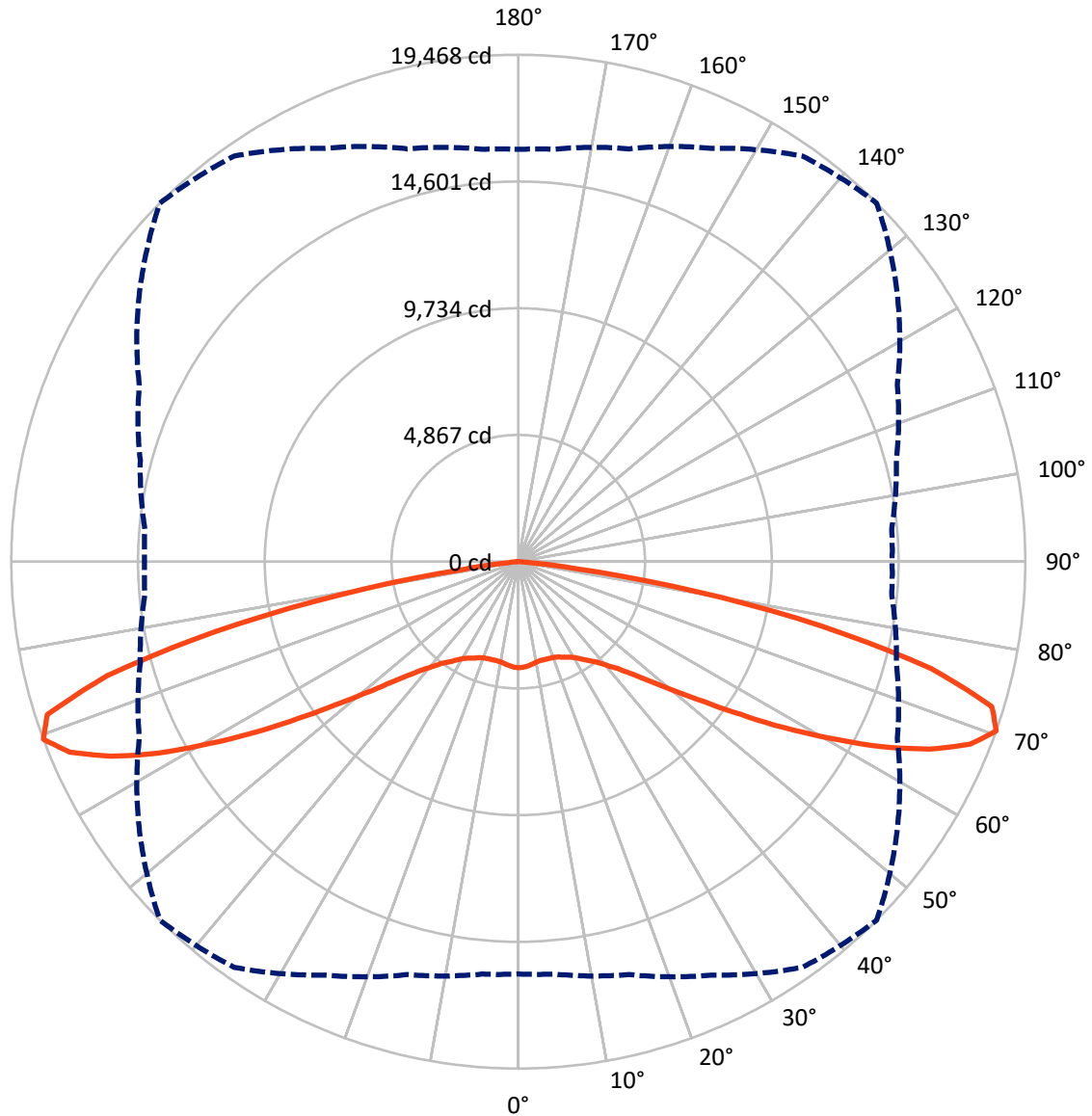
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	24045.0	0.0	24045.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24045.0	0.0	24045.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48090.0	0.0	48090.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	0.8
10°-20°	1114.7	2.3
20°-30°	1899.1	3.9
30°-40°	2943.7	6.1
40°-50°	4954.6	10.3
50°-60°	9014.7	18.7
60°-70°	15261.6	31.7
70°-80°	11813.1	24.6
80°-90°	707.9	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°	48090.0	100.0
0°-180°	48090.0	100.0



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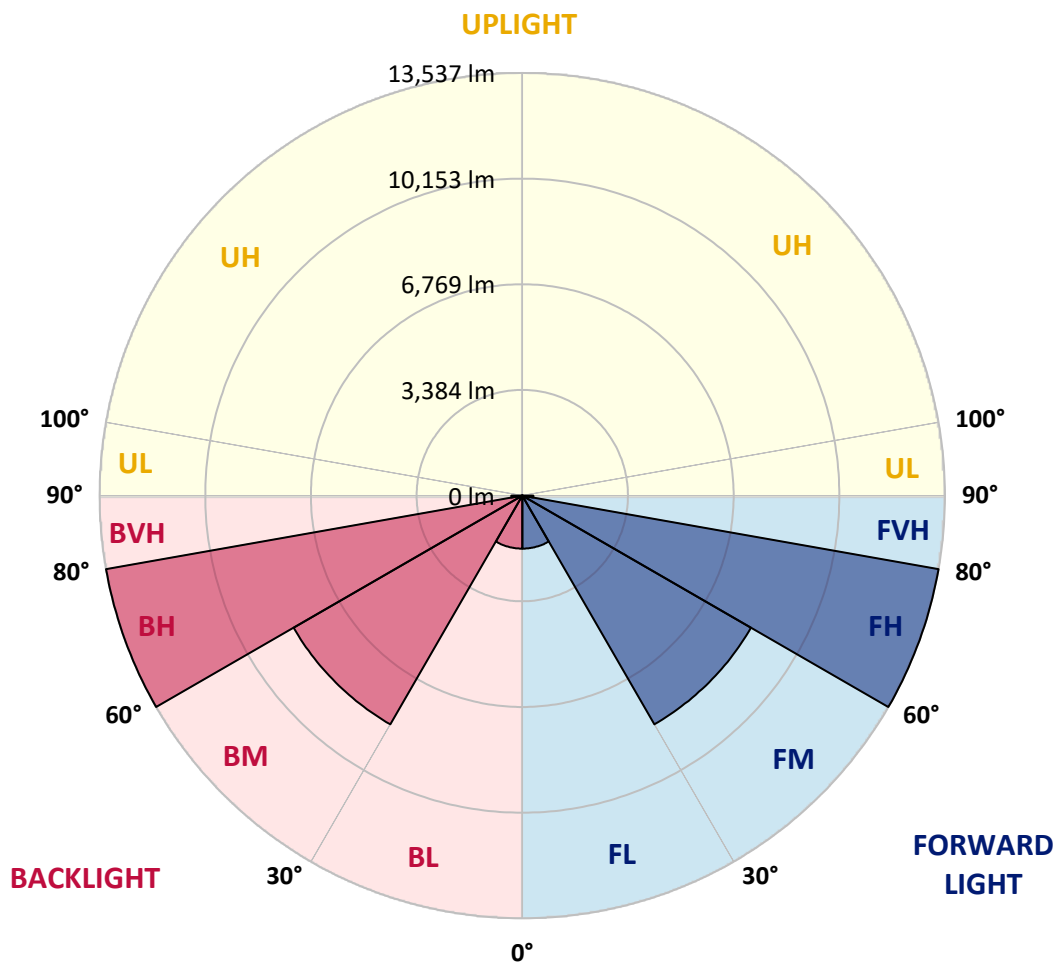
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.3	3.5			
FM (30°-60°)	8456.5	17.6			
FH (60°-80°)	13537.3	28.1			G5
FVH (80°-90°)	353.9	0.7			G3/500
BL (0°-30°)	1697.3	3.5	B3/2500		
BM (30°-60°)	8456.5	17.6	B4/8500		
BH (60°-80°)	13537.3	28.1	B5		G5
BVH (80°-90°)	353.9	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4
2.5°	4061.2	4063.8	4063.8	4058.7	4056.2	4056.2	4053.6	4053.6	4061.2	4063.8	4066.3
5°	4025.7	4025.7	4025.7	4023.1	4018.1	4018.1	4013.0	4013.0	4015.5	4023.1	4018.1
7.5°	3977.4	3982.5	3982.5	3972.4	3964.7	3964.7	3962.2	3964.7	3967.3	3974.9	3972.4
10°	3962.2	3964.7	3952.0	3934.3	3921.6	3913.9	3916.5	3921.6	3934.3	3939.3	3941.9
12.5°	3972.4	3972.4	3949.5	3924.1	3901.2	3891.1	3888.5	3906.3	3929.2	3944.4	3949.5
15°	3985.1	3980.0	3952.0	3919.0	3896.2	3893.6	3891.1	3903.8	3936.8	3967.3	3969.8
17.5°	3992.7	3990.1	3954.6	3913.9	3901.2	3901.2	3898.7	3908.9	3944.4	3982.5	3985.1
20°	4018.1	4010.5	3969.8	3926.6	3916.5	3921.6	3913.9	3926.6	3964.7	4010.5	4020.6
22.5°	4068.9	4061.2	4020.6	3977.4	3972.4	3972.4	3969.8	3982.5	4023.1	4071.4	4079.0
25°	4129.8	4122.2	4084.1	4053.6	4058.7	4068.9	4063.8	4066.3	4099.3	4140.0	4152.7
27.5°	4211.1	4198.4	4165.4	4140.0	4155.2	4155.2	4155.2	4152.7	4173.0	4211.1	4223.8
30°	4310.2	4305.1	4269.5	4267.0	4279.7	4267.0	4267.0	4269.5	4272.1	4307.6	4320.3
32.5°	4439.7	4429.5	4411.7	4406.7	4442.2	4452.4	4416.8	4383.8	4401.6	4437.1	4444.8
35°	4653.0	4637.8	4612.4	4584.5	4612.4	4660.7	4584.5	4559.1	4604.8	4653.0	4658.1
37.5°	4942.6	4935.0	4894.3	4843.5	4841.0	4891.8	4813.0	4810.5	4896.9	4955.3	4962.9
40°	5305.8	5313.4	5262.6	5214.3	5188.9	5229.6	5168.6	5191.5	5275.3	5341.3	5336.3
42.5°	5816.3	5788.4	5709.6	5663.9	5636.0	5620.7	5605.5	5641.0	5735.0	5806.1	5862.0
45°	6413.2	6403.0	6304.0	6248.1	6187.1	6164.3	6159.2	6222.7	6337.0	6423.3	6430.9
47.5°	7088.8	7065.9	7002.4	6944.0	6921.1	6893.2	6867.8	6916.1	7030.4	7091.3	7109.1
50°	7784.7	7789.8	7789.8	7779.6	7802.5	7807.6	7739.0	7756.8	7820.3	7815.2	7810.1
52.5°	8579.7	8607.6	8739.7	8752.4	8861.6	8935.3	8810.8	8737.1	8714.3	8577.1	8587.3
55°	9514.3	9539.7	9737.9	9936.0	10230.6	10355.0	10093.4	9864.8	9702.3	9494.0	9504.2
57.5°	10680.1	10692.8	10880.8	11261.8	11729.1	12021.2	11561.5	11109.4	10779.2	10581.1	10502.4
60°	11934.8	11947.5	12221.8	12686.6	13413.0	13768.6	13199.7	12460.6	12044.1	11741.8	11762.1
62.5°	13441.0	13491.8	13738.1	14378.2	15259.5	15658.3	14903.9	13915.9	13352.1	12976.2	12991.4
65°	15053.8	15140.1	15409.4	16112.9	16925.7	17354.9	16430.4	15290.0	14589.0	14129.3	14177.5
67.5°	16100.2	16176.4	16565.0	17342.2	18355.6	18711.2	17517.5	16189.1	15312.9	14764.2	14662.7
70°	15833.5	15897.0	16415.2	17517.5	19018.5	19468.1	17776.5	16057.0	15025.9	14393.4	14352.8
72.5°	13976.9	13844.8	14601.7	16184.0	18261.6	19016.0	16961.2	14665.2	13367.3	12717.1	12640.9
75°	9262.9	9549.9	10667.4	12531.7	15450.0	16384.7	14477.2	11774.8	10141.7	9600.7	9516.9
77.5°	3096.1	3317.1	4310.2	7104.0	10532.8	11937.4	10548.1	7700.9	5448.0	4388.9	4409.2
80°	820.4	810.2	1049.0	1953.2	4551.4	6913.5	5298.2	2608.4	1427.4	1033.7	980.4
82.5°	294.6	330.2	424.2	541.0	1206.4	2148.7	1516.3	731.5	535.9	396.2	383.5
85°	129.5	127.0	182.9	215.9	302.2	401.3	355.6	309.9	271.8	180.3	167.6
87.5°	27.9	27.9	43.2	33.0	53.3	53.3	66.0	78.7	81.3	53.3	43.2
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)