

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: P455990

Luminaire Tested: **GALN-SA7B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455990
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-SA7B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34764 lumens
Efficiency: N/A
Efficacy: 121.6 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): 286
Input Voltage (V): NR
Input Current (A_{in}): 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

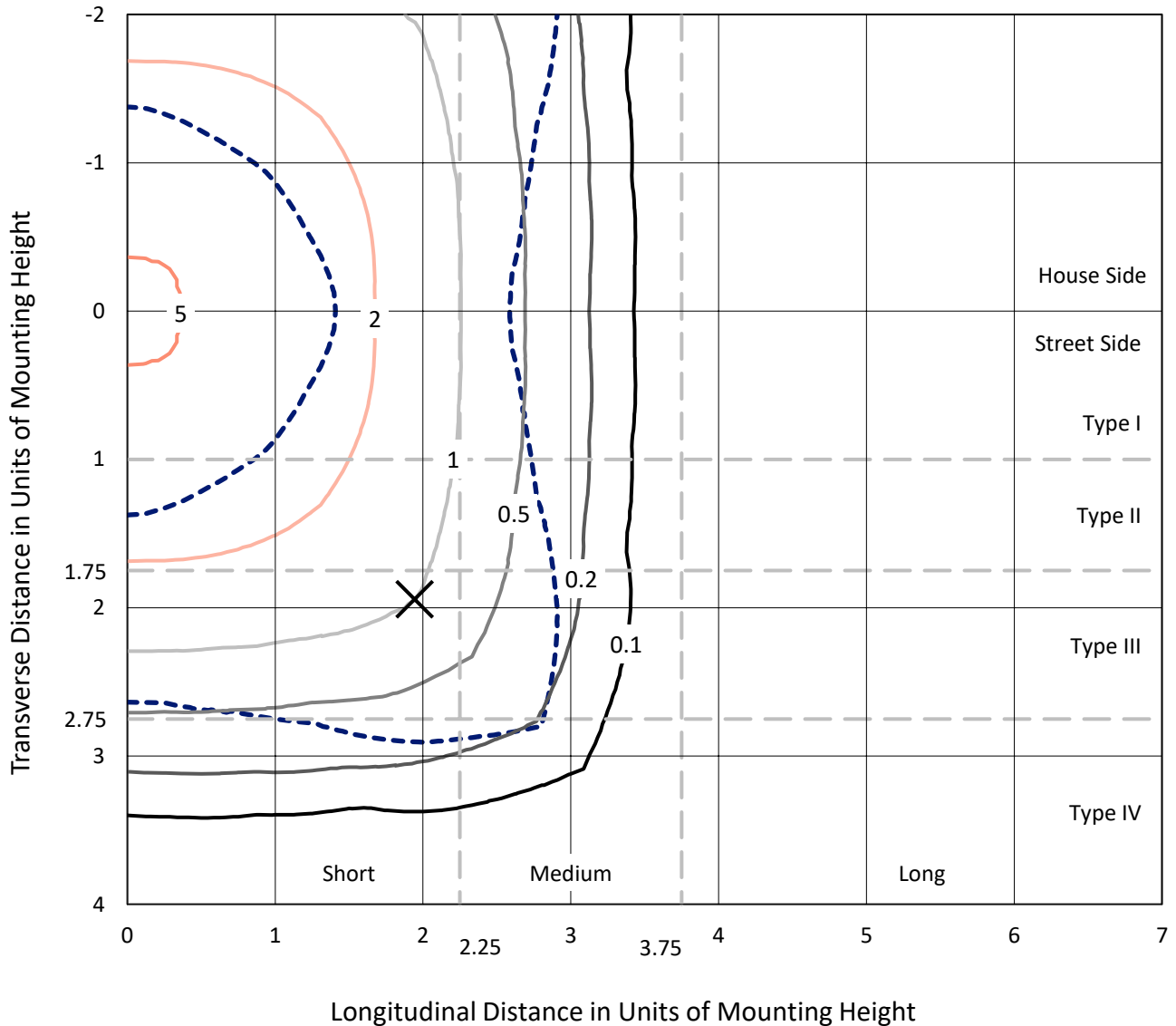




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Iso-Footcandle Lines of Horizontal Illumination

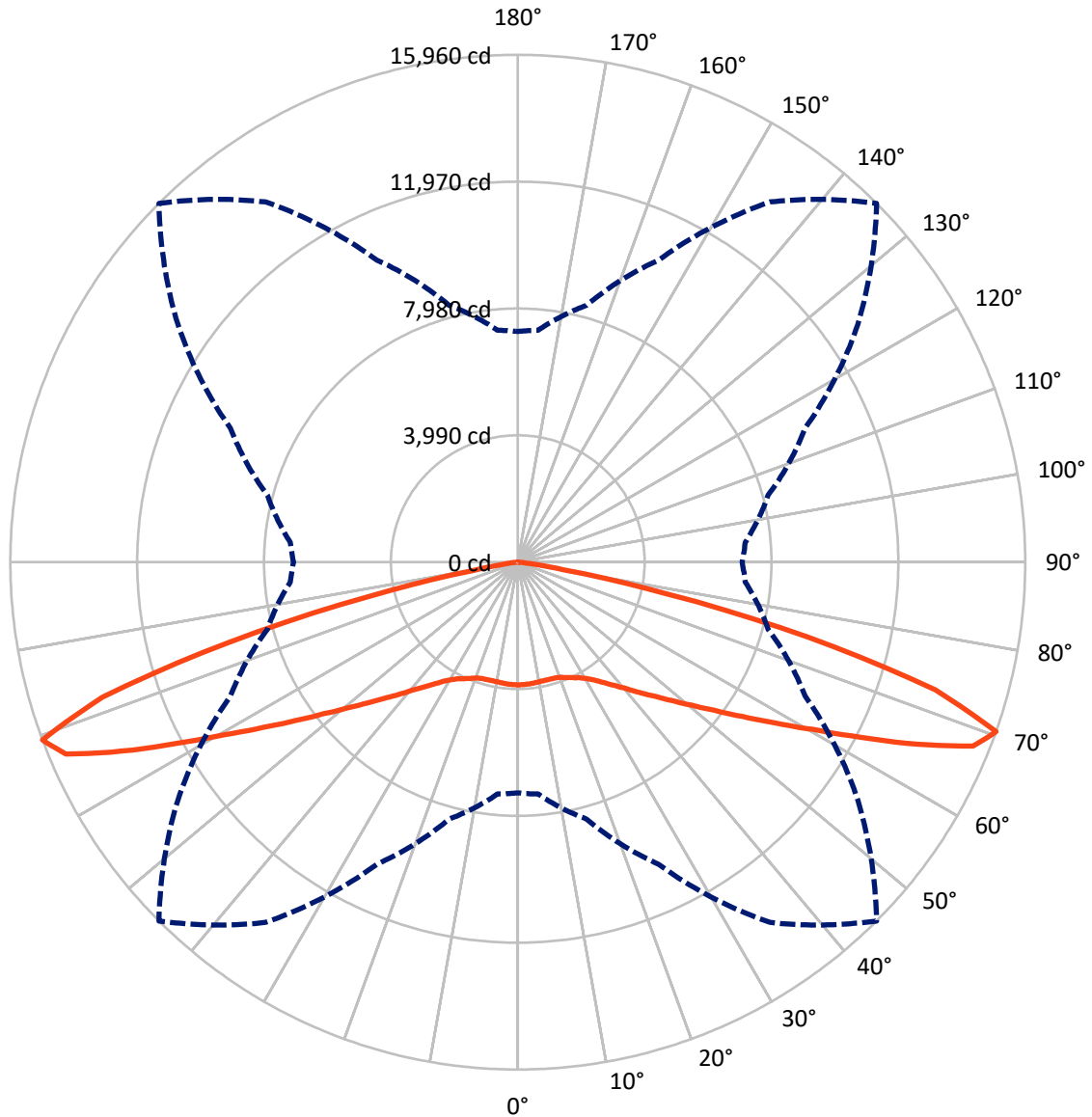
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	17382.0	0.0	17382.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17382.0	0.0	17382.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34764.0	0.0	34764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.1
10°-20°	1074.2	3.1
20°-30°	1837.2	5.3
30°-40°	2916.1	8.4
40°-50°	4704.4	13.5
50°-60°	7654.2	22.0
60°-70°	11095.9	31.9
70°-80°	4921.7	14.2
80°-90°	194.1	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°	34764.0	100.0
0°-180°	34764.0	100.0

Coefficient of Utilization



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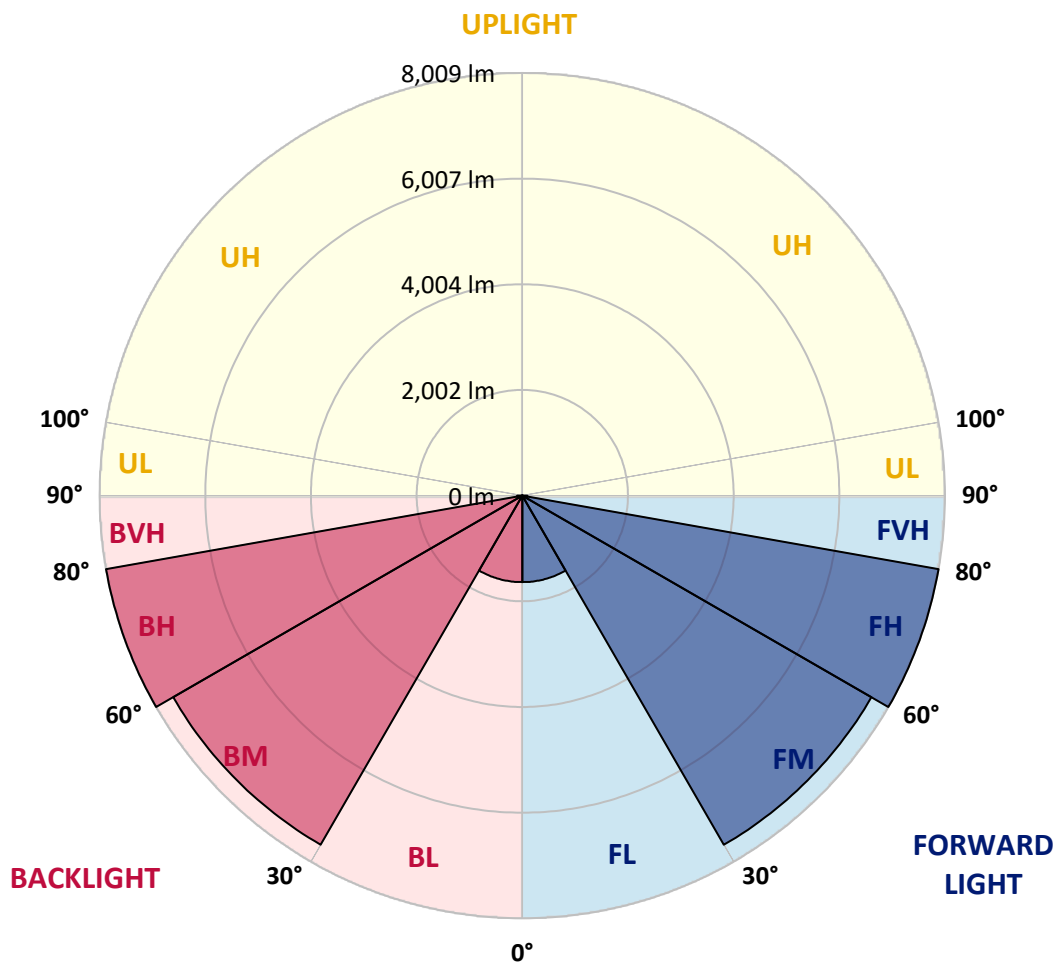
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.8	4.7			
FM (30°-60°)	7637.4	22.0			
FH (60°-80°)	8008.8	23.0			G4/12000
FVH (80°-90°)	97.1	0.3			G1/100
BL (0°-30°)	1638.8	4.7	B3/2500		
BM (30°-60°)	7637.4	22.0	B4/8500		
BH (60°-80°)	8008.8	23.0	B5		G4/12000
BVH (80°-90°)	97.1	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°	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4
2.5°	3860.4	3864.0	3858.5	3854.9	3853.0	3853.0	3851.2	3853.0	3864.0	3865.9	3860.4
5°	3849.4	3853.0	3851.2	3847.6	3845.7	3845.7	3843.9	3842.1	3851.2	3854.9	3853.0
7.5°	3834.7	3836.6	3834.7	3832.9	3834.7	3832.9	3827.4	3823.7	3831.1	3831.1	3829.2
10°	3809.1	3812.7	3810.9	3812.7	3816.4	3816.4	3809.1	3801.7	3803.6	3799.9	3799.9
12.5°	3777.9	3783.4	3785.3	3792.6	3801.7	3812.7	3796.3	3779.8	3776.1	3774.3	3772.4
15°	3757.8	3763.3	3770.6	3777.9	3794.4	3818.2	3794.4	3768.8	3761.4	3754.1	3750.4
17.5°	3752.3	3759.6	3770.6	3781.6	3803.6	3827.4	3807.2	3781.6	3763.3	3752.3	3748.6
20°	3766.9	3772.4	3788.9	3809.1	3840.2	3864.0	3843.9	3816.4	3788.9	3772.4	3766.9
22.5°	3796.3	3805.4	3825.6	3862.2	3906.2	3941.0	3913.5	3867.7	3823.7	3801.7	3794.4
25°	3860.4	3867.7	3891.5	3941.0	3992.3	4025.3	3996.0	3942.8	3882.4	3853.0	3843.9
27.5°	3957.5	3968.5	3994.1	4052.8	4094.9	4113.2	4093.1	4056.4	4012.4	3981.3	3974.0
30°	4094.9	4107.7	4146.2	4208.5	4236.0	4247.0	4237.8	4214.0	4182.8	4149.9	4142.5
32.5°	4279.9	4287.3	4331.2	4389.9	4415.5	4419.2	4408.2	4397.2	4345.9	4290.9	4287.3
35°	4487.0	4499.8	4552.9	4622.6	4646.4	4648.2	4626.2	4609.7	4549.3	4505.3	4505.3
37.5°	4761.8	4767.3	4818.6	4897.4	4923.0	4915.7	4904.7	4890.1	4825.9	4769.1	4771.0
40°	5084.3	5095.3	5139.2	5230.8	5230.8	5221.7	5229.0	5218.0	5153.9	5098.9	5100.8
42.5°	5467.2	5472.7	5525.8	5622.9	5615.6	5597.3	5604.6	5589.9	5549.6	5487.3	5465.4
45°	5875.8	5897.7	5989.4	6082.8	6068.1	6009.5	6038.8	6035.2	5998.5	5905.1	5910.6
47.5°	6368.6	6405.3	6493.2	6605.0	6588.5	6496.9	6529.8	6551.8	6500.5	6397.9	6379.6
50°	6923.8	6947.6	7077.7	7182.1	7167.4	7070.3	7145.5	7149.1	7020.9	6876.1	6876.1
52.5°	7515.6	7539.4	7715.3	7878.3	7887.5	7746.4	7806.9	7803.2	7594.3	7403.8	7367.1
55°	8178.8	8189.8	8417.0	8657.0	8708.3	8570.9	8578.2	8504.9	8233.8	8012.1	7991.9
57.5°	8864.0	8904.3	9155.3	9466.8	9618.9	9534.6	9496.1	9300.1	9038.1	8783.4	8770.6
60°	9622.5	9624.4	9950.5	10318.8	10626.6	10683.4	10525.8	10263.8	9924.9	9587.7	9573.1
62.5°	10148.4	10227.2	10639.4	11262.3	11813.8	12132.6	11716.7	11167.1	10500.2	9956.0	9901.0
65°	10256.5	10309.6	10938.0	11993.4	13120.2	13807.2	12845.3	11676.4	10538.6	9813.1	9776.4
67.5°	9382.5	9439.3	10285.8	11905.4	14036.2	15445.2	13578.2	11430.9	9886.4	8988.6	8917.2
70°	7257.2	7321.3	8367.5	10480.0	13832.9	15960.0	13056.0	9970.7	8153.1	7183.9	7053.8
72.5°	3858.5	4094.9	4989.0	7193.1	11227.5	13741.3	10705.4	7275.5	5258.3	4298.3	4126.0
75°	1408.9	1438.3	1936.6	3189.8	6531.7	9422.8	6782.7	3470.1	1995.2	1540.9	1462.1
77.5°	582.6	580.8	637.6	963.7	2372.7	4825.9	2647.5	1018.7	635.8	588.1	580.8
80°	344.4	344.4	379.3	401.2	624.8	1456.6	698.1	454.4	381.1	348.1	353.6
82.5°	153.9	163.1	240.0	252.8	302.3	399.4	337.1	289.5	249.2	172.2	155.7
85°	84.3	73.3	126.4	131.9	144.7	148.4	159.4	157.6	144.7	84.3	86.1
87.5°	16.5	20.2	36.6	27.5	31.1	27.5	36.6	51.3	53.1	29.3	23.8
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)