

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: P459240

Luminaire Tested: **GALN-SA7B-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459240
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-SA7B-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 38641 lumens
Efficiency: N/A
Efficacy: 135.1 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

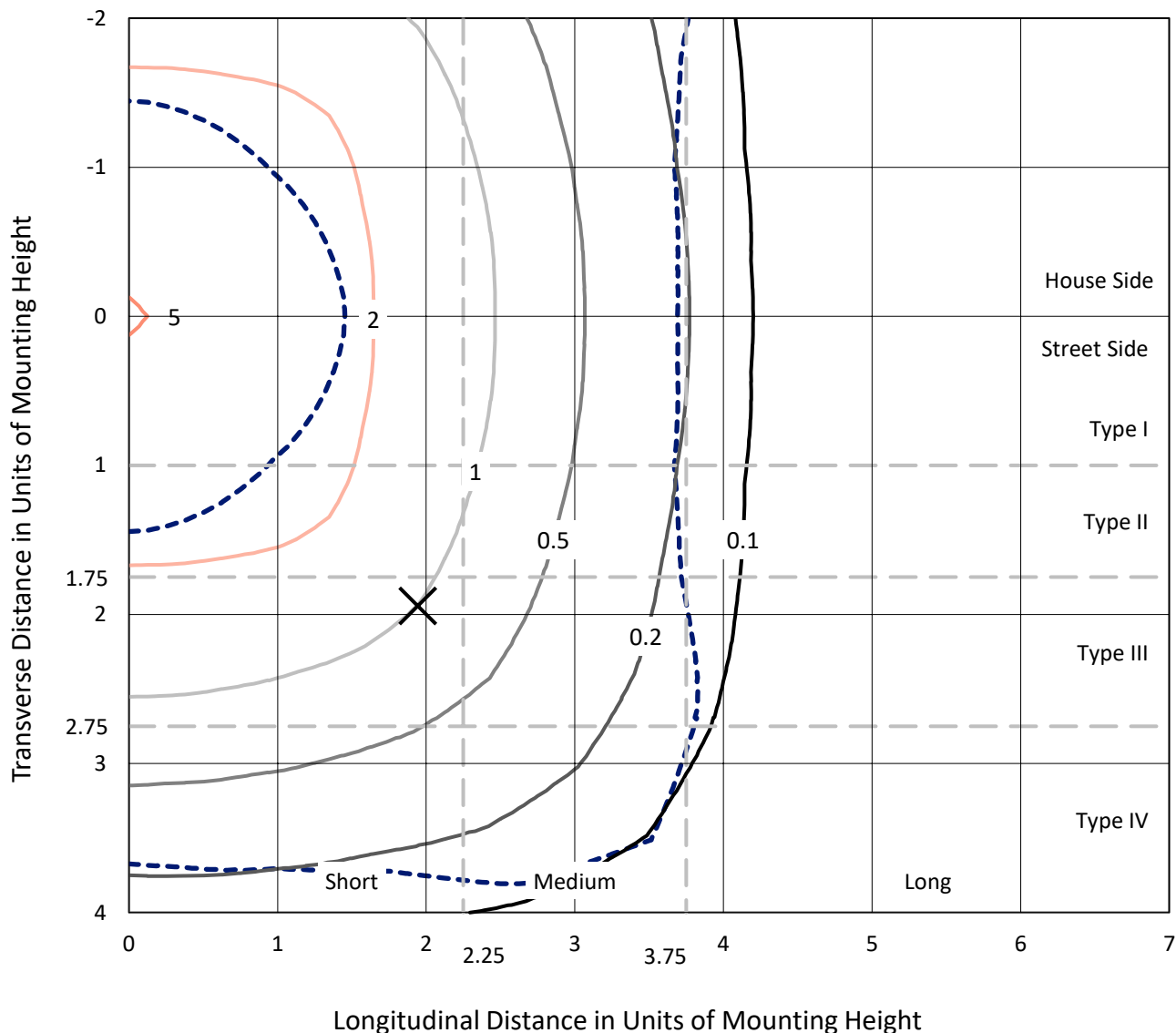
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

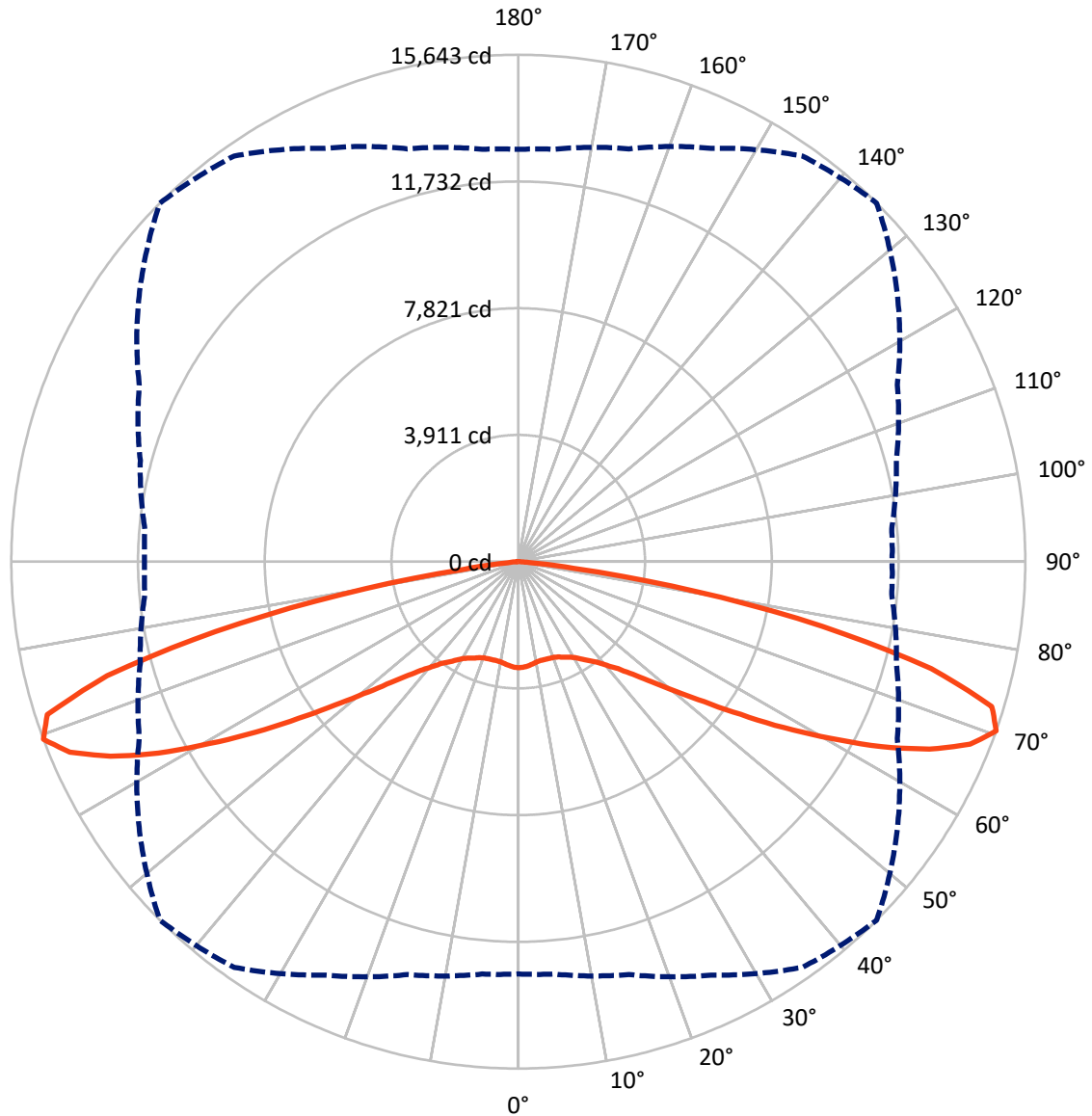
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	19320.5	0.0	19320.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19320.5	0.0	19320.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38641.0	0.0	38641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	0.8
10°-20°	895.7	2.3
20°-30°	1526.0	3.9
30°-40°	2365.3	6.1
40°-50°	3981.1	10.3
50°-60°	7243.4	18.7
60°-70°	12262.9	31.7
70°-80°	9492.0	24.6
80°-90°	568.8	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°	38641.0	100.0
0°-180°	38641.0	100.0

Coefficient of Utilization



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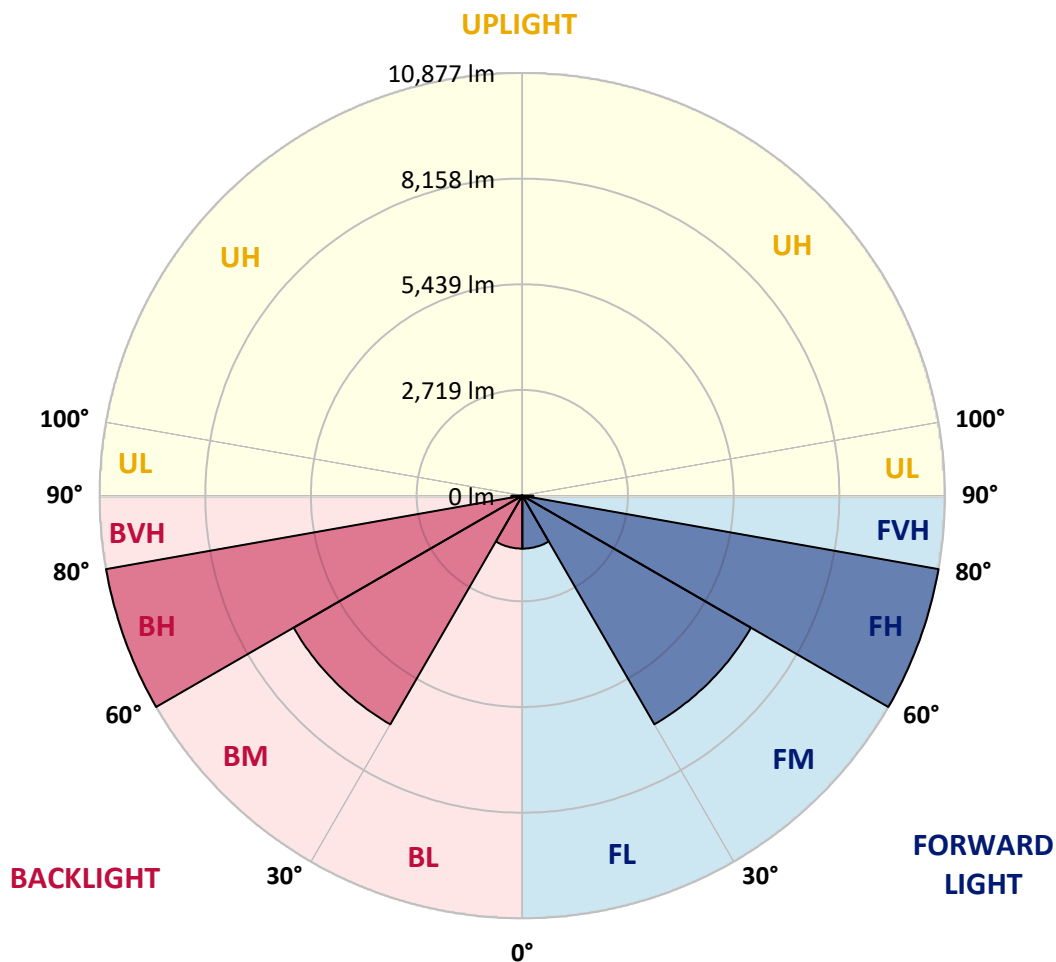
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.8	3.5			
FM	(30°-60°)	6794.9	17.6			
FH	(60°-80°)	10877.4	28.1			G4/12000
FVH	(80°-90°)	284.4	0.7			G3/500
BL	(0°-30°)	1363.8	3.5	B3/2500		
BM	(30°-60°)	6794.9	17.6	B4/8500		
BH	(60°-80°)	10877.4	28.1	B5		G4/12000
BVH	(80°-90°)	284.4	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°	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4	3271.4
2.5°	3263.3	3265.3	3265.3	3261.2	3259.2	3259.2	3257.1	3257.1	3263.3	3265.3	3267.4
5°	3234.7	3234.7	3234.7	3232.7	3228.6	3228.6	3224.5	3224.5	3226.5	3232.7	3228.6
7.5°	3195.9	3200.0	3200.0	3191.8	3185.7	3185.7	3183.7	3185.7	3187.8	3193.9	3191.8
10°	3183.7	3185.7	3175.5	3161.2	3151.0	3144.9	3146.9	3151.0	3161.2	3165.3	3167.4
12.5°	3191.8	3191.8	3173.5	3153.1	3134.7	3126.5	3124.5	3138.8	3157.1	3169.4	3173.5
15°	3202.0	3198.0	3175.5	3149.0	3130.6	3128.6	3126.5	3136.7	3163.3	3187.8	3189.8
17.5°	3208.2	3206.1	3177.6	3144.9	3134.7	3134.7	3132.7	3140.8	3169.4	3200.0	3202.0
20°	3228.6	3222.5	3189.8	3155.1	3146.9	3151.0	3144.9	3155.1	3185.7	3222.5	3230.6
22.5°	3269.4	3263.3	3230.6	3195.9	3191.8	3191.8	3189.8	3200.0	3232.7	3271.4	3277.6
25°	3318.4	3312.3	3281.6	3257.1	3261.2	3269.4	3265.3	3267.4	3293.9	3326.5	3336.7
27.5°	3383.7	3373.5	3346.9	3326.5	3338.8	3338.8	3338.8	3336.7	3353.1	3383.7	3393.9
30°	3463.3	3459.2	3430.6	3428.6	3438.8	3428.6	3428.6	3430.6	3432.7	3461.2	3471.4
32.5°	3567.4	3559.2	3544.9	3540.8	3569.4	3577.6	3549.0	3522.5	3536.7	3565.3	3571.4
35°	3738.8	3726.5	3706.1	3683.7	3706.1	3744.9	3683.7	3663.3	3700.0	3738.8	3742.9
37.5°	3971.4	3965.3	3932.7	3891.8	3889.8	3930.6	3867.4	3865.3	3934.7	3981.6	3987.8
40°	4263.3	4269.4	4228.6	4189.8	4169.4	4202.0	4153.1	4171.4	4238.8	4291.8	4287.8
42.5°	4673.5	4651.0	4587.8	4551.0	4528.6	4516.3	4504.1	4532.7	4608.2	4665.3	4710.2
45°	5153.1	5144.9	5065.3	5020.4	4971.4	4953.1	4949.0	5000.0	5091.8	5161.2	5167.4
47.5°	5695.9	5677.6	5626.5	5579.6	5561.2	5538.8	5518.4	5557.2	5649.0	5698.0	5712.3
50°	6255.1	6259.2	6259.2	6251.0	6269.4	6273.5	6218.4	6232.7	6283.7	6279.6	6275.5
52.5°	6893.9	6916.3	7022.5	7032.7	7120.4	7179.6	7079.6	7020.4	7002.1	6891.8	6900.0
55°	7644.9	7665.3	7824.5	7983.7	8220.4	8320.4	8110.2	7926.5	7795.9	7628.6	7636.7
57.5°	8581.6	8591.9	8742.9	9049.0	9424.5	9659.2	9289.8	8926.5	8661.2	8502.1	8438.8
60°	9589.8	9600.0	9820.4	10193.9	10777.6	11063.3	10606.1	10012.3	9677.6	9434.7	9451.0
62.5°	10800.0	10840.8	11038.8	11553.1	12261.2	12581.7	11975.5	11181.7	10728.6	10426.5	10438.8
65°	12095.9	12165.3	12381.7	12947.0	13600.0	13944.9	13202.1	12285.7	11722.5	11353.1	11391.9
67.5°	12936.8	12998.0	13310.2	13934.7	14749.0	15034.7	14075.5	13008.2	12304.1	11863.3	11781.7
70°	12722.5	12773.5	13189.8	14075.5	15281.7	15642.9	14283.7	12902.1	12073.5	11565.3	11532.7
72.5°	11230.6	11124.5	11732.7	13004.1	14673.5	15279.6	13628.6	11783.7	10740.8	10218.4	10157.2
75°	7442.9	7673.5	8571.4	10069.4	12414.3	13165.3	11632.7	9461.2	8149.0	7714.3	7647.0
77.5°	2487.8	2665.3	3463.3	5708.2	8463.3	9591.9	8475.5	6187.8	4377.6	3526.5	3542.9
80°	659.2	651.0	842.9	1569.4	3657.1	5555.1	4257.1	2095.9	1146.9	830.6	787.8
82.5°	236.7	265.3	340.8	434.7	969.4	1726.5	1218.4	587.8	430.6	318.4	308.2
85°	104.1	102.0	146.9	173.5	242.9	322.4	285.7	249.0	218.4	144.9	134.7
87.5°	22.4	22.4	34.7	26.5	42.9	42.9	53.1	63.3	65.3	42.9	34.7
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)