

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: P459209

Luminaire Tested: **GALN-SA7A-735-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459209  
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-SA7A-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 31121 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

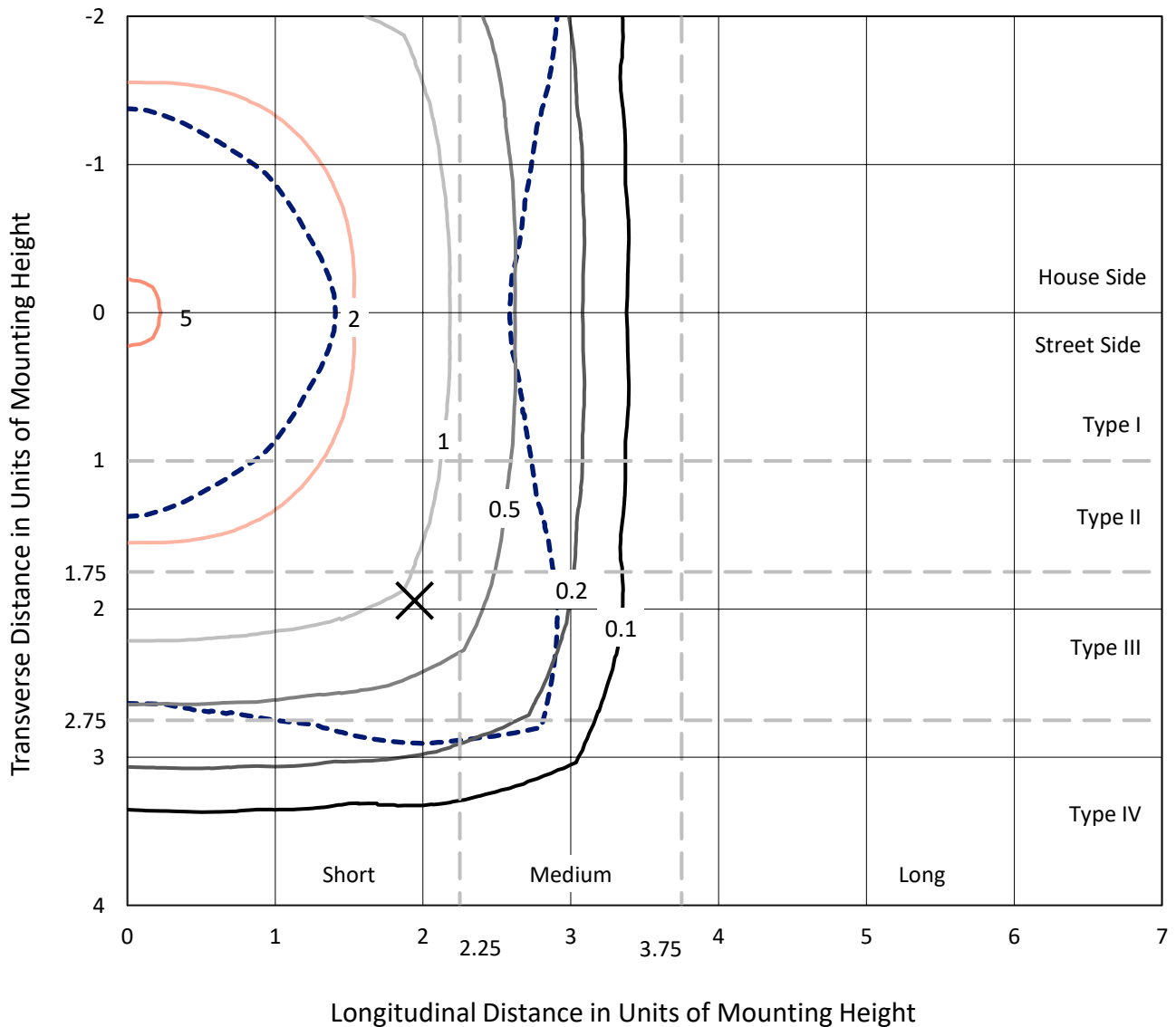
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

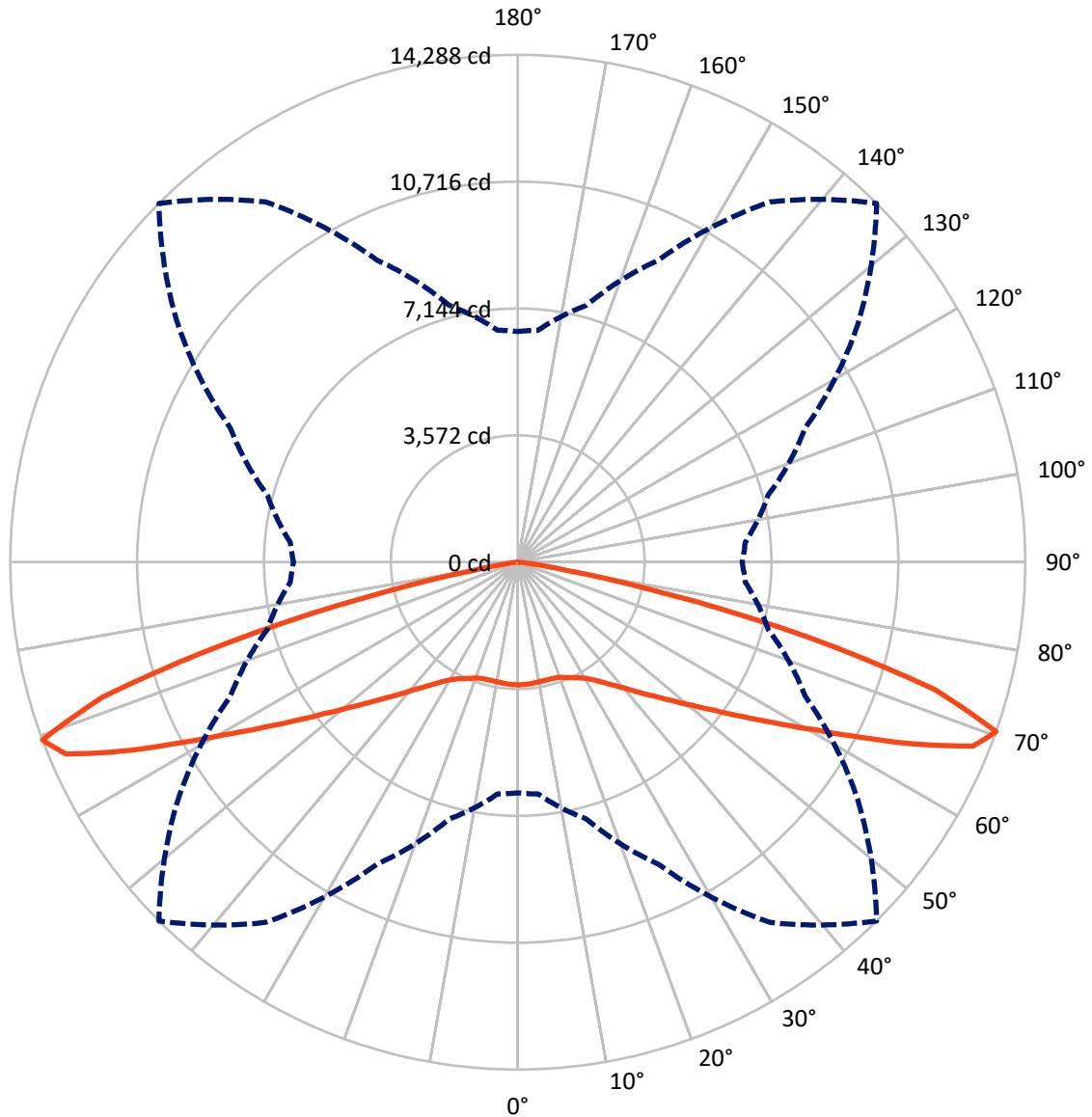
✕ Max cd  
 - - - 1/2 Max cd



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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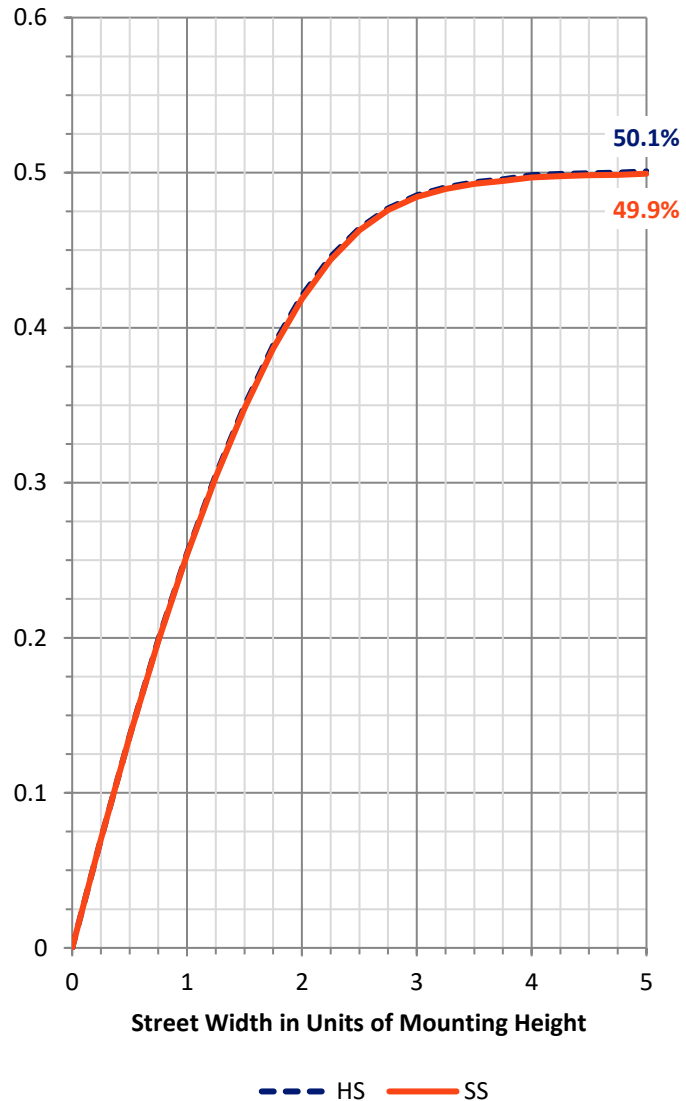
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15560.5	0.0	15560.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15560.5	0.0	15560.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31121.0	0.0	31121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.7	1.1
10°-20°	961.7	3.1
20°-30°	1644.7	5.3
30°-40°	2610.5	8.4
40°-50°	4211.5	13.5
50°-60°	6852.1	22.0
60°-70°	9933.1	31.9
70°-80°	4406.0	14.2
80°-90°	173.8	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°	31121.0	100.0
0°-180°	31121.0	100.0

**Coefficient of Utilization**



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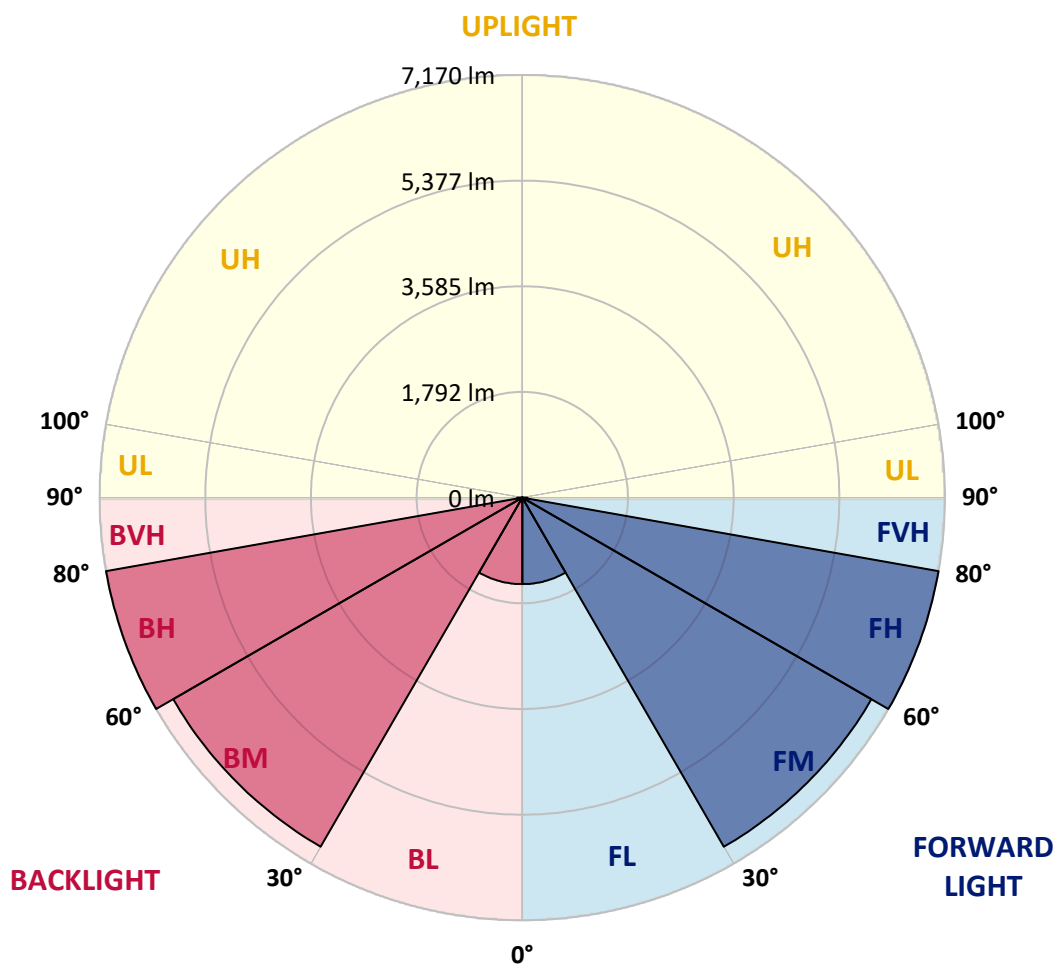
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.0	4.7			
FM (30°-60°)	6837.0	22.0			
FH (60°-80°)	7169.5	23.0			G3/7500
FVH (80°-90°)	86.9	0.3			G1/100
BL (0°-30°)	1467.0	4.7	B3/2500		
BM (30°-60°)	6837.0	22.0	B4/8500		
BH (60°-80°)	7169.5	23.0	B5		G3/7500
BVH (80°-90°)	86.9	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8
2.5°	3455.8	3459.1	3454.2	3450.9	3449.3	3449.3	3447.6	3449.3	3459.1	3460.8	3455.8
5°	3446.0	3449.3	3447.6	3444.4	3442.7	3442.7	3441.1	3439.4	3447.6	3450.9	3449.3
7.5°	3432.9	3434.5	3432.9	3431.2	3432.9	3431.2	3426.3	3423.0	3429.6	3429.6	3428.0
10°	3409.9	3413.2	3411.6	3413.2	3416.5	3416.5	3409.9	3403.4	3405.0	3401.7	3401.7
12.5°	3382.0	3387.0	3388.6	3395.2	3403.4	3413.2	3398.4	3383.7	3380.4	3378.8	3377.1
15°	3364.0	3368.9	3375.5	3382.0	3396.8	3418.1	3396.8	3373.8	3367.3	3360.7	3357.4
17.5°	3359.1	3365.6	3375.5	3385.3	3405.0	3426.3	3408.3	3385.3	3368.9	3359.1	3355.8
20°	3372.2	3377.1	3391.9	3409.9	3437.8	3459.1	3441.1	3416.5	3391.9	3377.1	3372.2
22.5°	3398.4	3406.6	3424.7	3457.5	3496.8	3528.0	3503.4	3462.4	3423.0	3403.4	3396.8
25°	3455.8	3462.4	3483.7	3528.0	3573.9	3603.5	3577.2	3529.6	3475.5	3449.3	3441.1
27.5°	3542.8	3552.6	3575.6	3628.1	3665.8	3682.2	3664.1	3631.3	3592.0	3564.1	3557.5
30°	3665.8	3677.3	3711.7	3767.5	3792.1	3801.9	3793.7	3772.4	3744.5	3715.0	3708.4
32.5°	3831.4	3838.0	3877.4	3929.8	3952.8	3956.1	3946.3	3936.4	3890.5	3841.3	3838.0
35°	4016.8	4028.3	4075.8	4138.2	4159.5	4161.1	4141.4	4126.7	4072.5	4033.2	4033.2
37.5°	4262.8	4267.7	4313.6	4384.2	4407.1	4400.6	4390.7	4377.6	4320.2	4269.4	4271.0
40°	4551.5	4561.3	4600.7	4682.7	4682.7	4674.5	4681.0	4671.2	4613.8	4564.6	4566.2
42.5°	4894.3	4899.2	4946.8	5033.7	5027.1	5010.7	5017.3	5004.2	4968.1	4912.3	4892.6
45°	5260.0	5279.7	5361.7	5445.4	5432.2	5379.8	5406.0	5402.7	5369.9	5286.3	5291.2
47.5°	5701.2	5734.0	5812.8	5912.8	5898.1	5816.0	5845.6	5865.3	5819.3	5727.5	5711.1
50°	6198.2	6219.5	6336.0	6429.5	6416.3	6329.4	6396.7	6399.9	6285.1	6155.6	6155.6
52.5°	6728.0	6749.3	6906.8	7052.7	7060.9	6934.6	6988.8	6985.5	6798.5	6627.9	6595.1
55°	7321.7	7331.6	7534.9	7749.8	7795.7	7672.7	7679.3	7613.7	7370.9	7172.5	7154.4
57.5°	7935.1	7971.2	8195.9	8474.8	8610.9	8535.5	8501.0	8325.5	8091.0	7863.0	7851.5
60°	8614.2	8615.8	8907.8	9237.4	9513.0	9563.8	9422.8	9188.2	8884.8	8583.0	8569.9
62.5°	9084.9	9155.4	9524.5	10082.1	10575.8	10861.2	10488.9	9996.8	9399.8	8912.7	8863.5
65°	9181.7	9229.2	9791.8	10736.6	11745.3	12360.3	11499.2	10452.8	9434.3	8784.8	8752.0
67.5°	8399.3	8450.2	9207.9	10657.8	12565.4	13826.6	12155.3	10233.0	8850.4	8046.7	7982.7
70°	6496.7	6554.1	7490.7	9381.8	12383.3	14287.5	11687.9	8925.8	7298.8	6431.1	6314.7
72.5°	3454.2	3665.8	4466.2	6439.3	10051.0	12301.3	9583.5	6513.1	4707.3	3847.8	3693.7
75°	1261.3	1287.5	1733.7	2855.5	5847.2	8435.4	6071.9	3106.5	1786.1	1379.4	1308.9
77.5°	521.6	519.9	570.8	862.7	2124.0	4320.2	2370.0	911.9	569.1	526.5	519.9
80°	308.4	308.4	339.5	359.2	559.3	1303.9	624.9	406.8	341.2	311.6	316.6
82.5°	137.8	146.0	214.9	226.3	270.6	357.6	301.8	259.1	223.1	154.2	139.4
85°	75.4	65.6	113.2	118.1	129.6	132.9	142.7	141.1	129.6	75.4	77.1
87.5°	14.8	18.0	32.8	24.6	27.9	24.6	32.8	45.9	47.6	26.2	21.3
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)