

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: P458819

Luminaire Tested: **GALN-SA3C-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19516 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

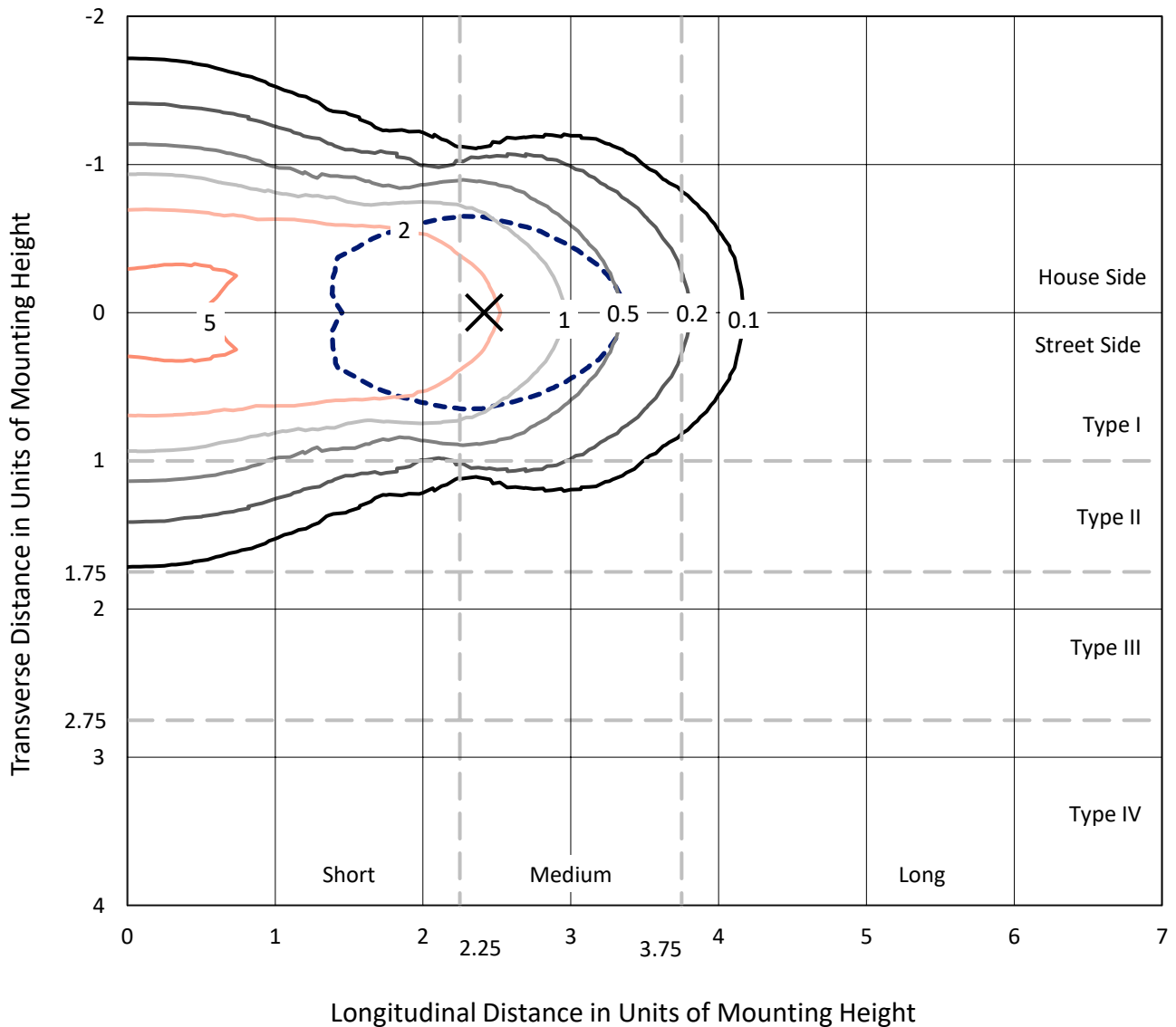
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

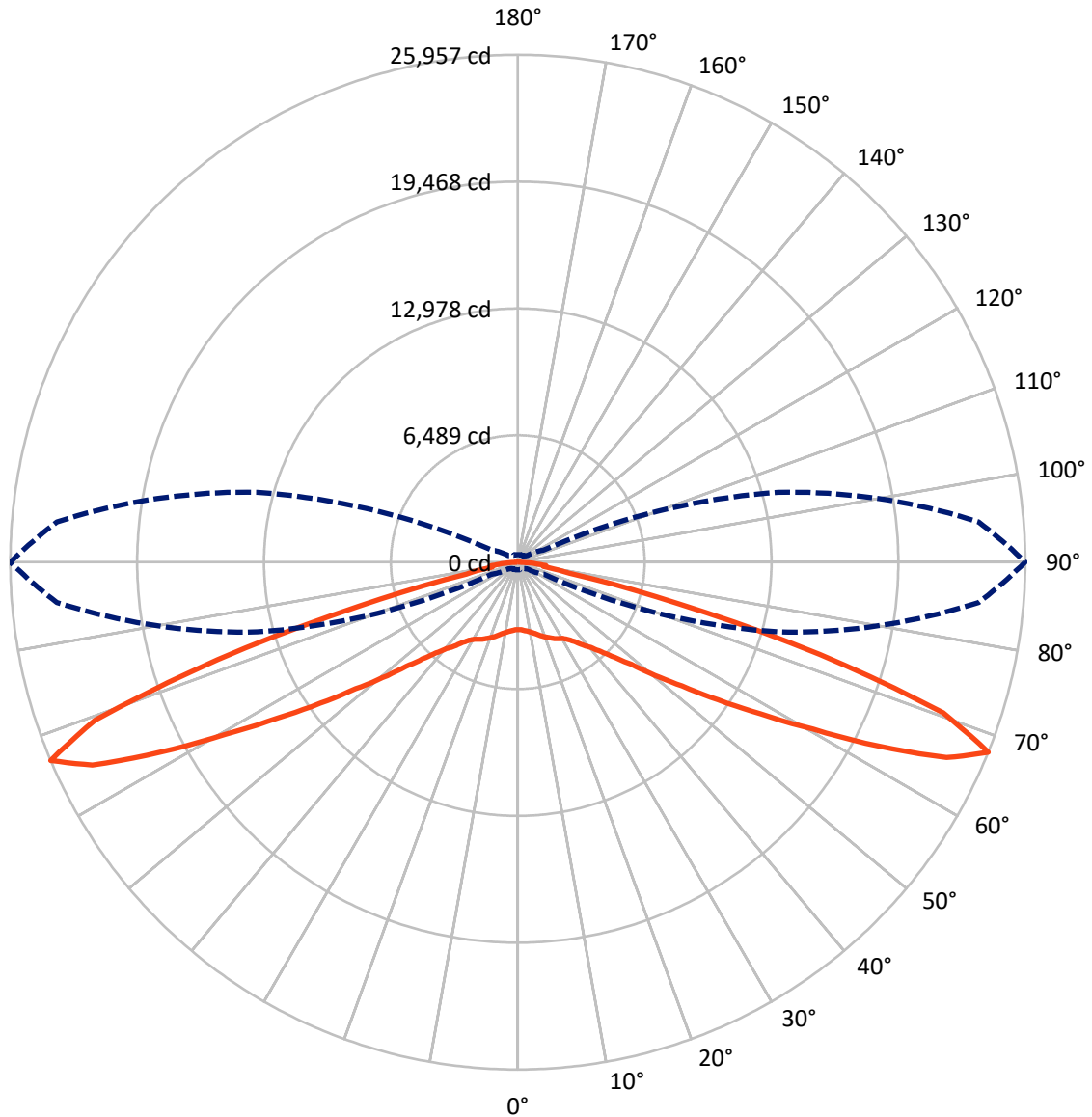
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9758.0	0.0	9758.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9758.0	0.0	9758.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19516.0	0.0	19516.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.5	1.8
10°-20°	1102.1	5.6
20°-30°	1844.6	9.5
30°-40°	2498.9	12.8
40°-50°	3165.3	16.2
50°-60°	3954.3	20.3
60°-70°	4648.1	23.8
70°-80°	1778.1	9.1
80°-90°	180.1	0.9
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°	19516.0	100.0
0°-180°	19516.0	100.0

**Coefficient of Utilization**



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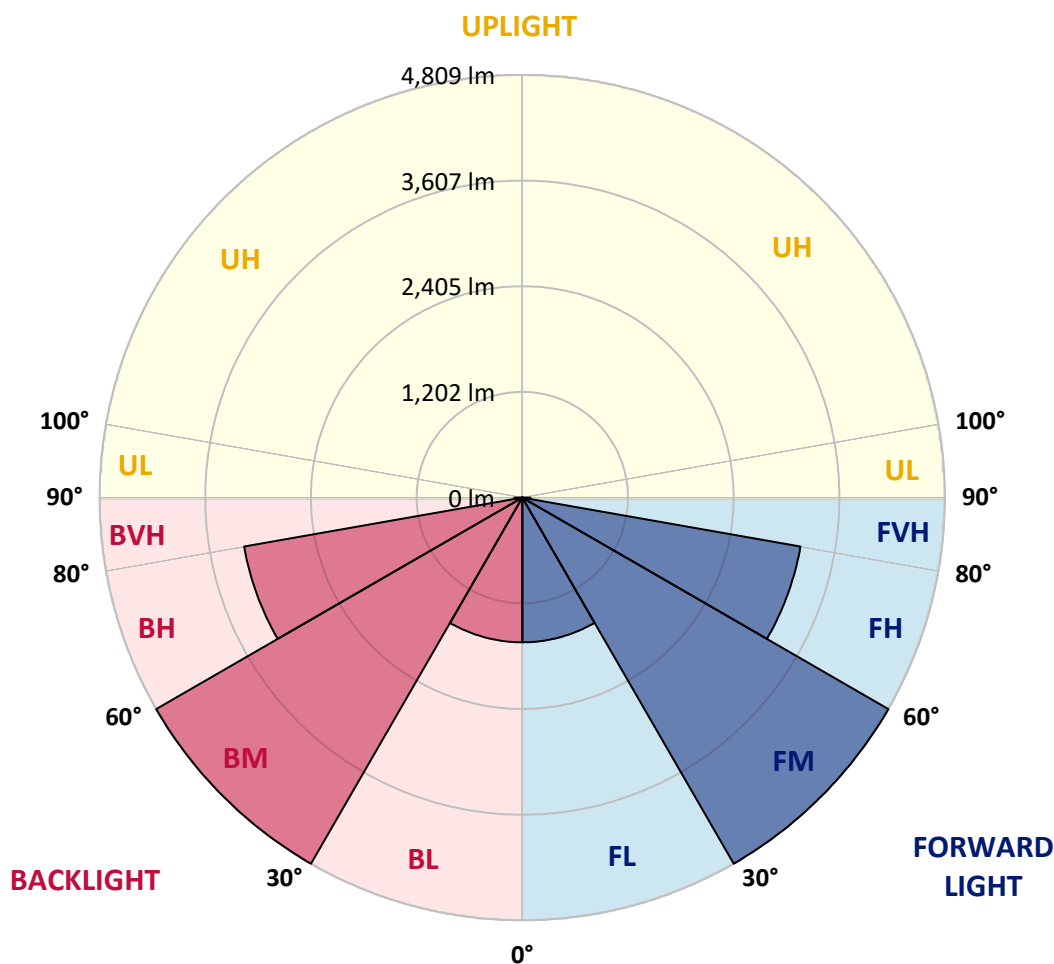
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.6	8.4			
FM (30°-60°)	4809.3	24.6			
FH (60°-80°)	3213.1	16.5			G2/5000
FVH (80°-90°)	90.1	0.5			G1/100
BL (0°-30°)	1645.6	8.4	B3/2500		
BM (30°-60°)	4809.3	24.6	B3/5000		
BH (60°-80°)	3213.1	16.5	B4/5000		G4/5000
BVH (80°-90°)	90.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3454.9	3454.9	3454.9	3454.9	3454.9	3454.9	3454.9	3454.9	3454.9	3454.9	3454.9
2.5°	3499.2	3497.1	3498.2	3497.1	3500.3	3498.2	3485.2	3474.4	3465.7	3466.8	3463.6
5°	3573.8	3574.9	3576.0	3570.6	3578.1	3573.8	3553.3	3536.0	3518.7	3512.2	3510.1
7.5°	3635.4	3640.8	3644.1	3649.5	3662.4	3662.4	3651.6	3626.8	3588.9	3567.3	3566.2
10°	3697.0	3701.3	3711.1	3728.4	3750.0	3770.5	3766.2	3732.7	3684.0	3647.3	3638.7
12.5°	3718.6	3724.0	3756.4	3806.2	3854.8	3894.8	3894.8	3867.8	3805.1	3748.9	3732.7
15°	3643.0	3652.7	3711.1	3817.0	3944.5	4032.0	4051.5	4013.7	3946.6	3860.2	3840.7
17.5°	3492.8	3516.5	3601.9	3758.6	3970.4	4152.0	4208.2	4189.8	4103.3	3993.1	3970.4
20°	3331.7	3357.7	3448.5	3655.9	3948.8	4222.2	4385.4	4389.7	4282.7	4122.8	4089.3
22.5°	3154.5	3174.0	3290.7	3533.8	3884.0	4238.4	4537.8	4612.3	4467.5	4252.5	4204.9
25°	2955.7	2977.3	3099.4	3362.0	3761.9	4220.1	4677.2	4841.5	4661.0	4390.8	4330.3
27.5°	2765.5	2774.1	2904.9	3171.8	3600.8	4172.5	4779.9	5052.2	4875.0	4505.4	4428.6
30°	2582.8	2603.4	2719.0	2982.7	3416.0	4079.6	4868.5	5292.1	5105.1	4625.3	4527.0
32.5°	2389.4	2414.2	2539.6	2806.5	3231.2	3940.2	4922.5	5554.7	5426.1	4819.8	4715.0
35°	2203.5	2219.7	2346.2	2605.5	3050.8	3778.1	4932.2	5850.8	5840.0	5114.9	4975.5
37.5°	2013.3	2037.1	2164.6	2413.2	2859.5	3606.2	4883.6	6165.3	6339.3	5524.4	5374.2
40°	1830.7	1851.2	1976.6	2227.3	2642.3	3396.6	4768.0	6452.8	6921.8	5945.9	5733.0
42.5°	1631.8	1637.2	1774.5	2029.5	2429.4	3153.4	4601.5	6708.9	7571.3	6511.1	6246.3
45°	1406.0	1420.0	1547.5	1798.3	2185.1	2881.1	4375.7	6920.7	8394.7	7294.6	6933.7
47.5°	1180.1	1192.0	1308.7	1556.2	1918.2	2568.8	4027.7	7106.6	9239.8	8289.9	7816.6
50°	959.6	966.1	1061.2	1280.6	1617.8	2240.3	3596.5	7166.0	10195.2	9699.1	9095.0
52.5°	758.6	768.4	840.8	1012.6	1296.8	1852.3	3130.7	7019.0	11310.4	11369.9	10518.3
55°	614.9	618.1	672.2	798.6	1013.7	1446.0	2568.8	6609.4	12510.0	13510.7	12424.6
57.5°	529.5	531.7	562.0	632.2	780.3	1090.4	1992.8	5834.6	13587.4	16018.9	14622.7
60°	480.9	482.0	499.3	540.3	618.1	836.4	1427.6	4741.0	14650.8	18810.3	17354.7
62.5°	450.6	450.6	462.5	485.2	523.0	641.9	1034.2	3420.4	15379.2	21642.8	20722.1
65°	421.5	421.5	430.1	446.3	466.9	525.2	764.0	2230.5	15360.8	23705.8	24108.9
67.5°	388.0	388.0	394.4	410.7	422.5	451.7	590.1	1461.1	13798.1	23660.4	25956.9
70°	348.0	348.0	356.6	370.7	380.4	398.8	465.8	999.6	10136.8	20202.3	23084.4
72.5°	308.0	309.1	314.5	328.5	336.1	346.9	386.9	700.3	6218.2	13756.0	16141.1
75°	263.7	265.8	271.3	285.3	291.8	296.1	326.4	499.3	3145.9	7416.7	8444.4
77.5°	212.9	217.2	220.5	235.6	239.9	246.4	269.1	360.9	1381.1	2665.0	2688.7
80°	155.6	161.0	170.7	184.8	188.0	192.4	205.3	256.1	625.7	1216.8	1321.7
82.5°	114.6	122.1	110.2	128.6	128.6	123.2	144.8	171.8	287.5	1205.0	1441.6
85°	62.7	63.8	57.3	65.9	70.2	69.2	76.7	84.3	139.4	804.0	828.9
87.5°	15.1	16.2	17.3	20.5	24.9	24.9	27.0	23.8	45.4	260.4	149.1
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)