

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: P458848

Luminaire Tested: **GALN-SA3D-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458848  
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-SA3D-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21475 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

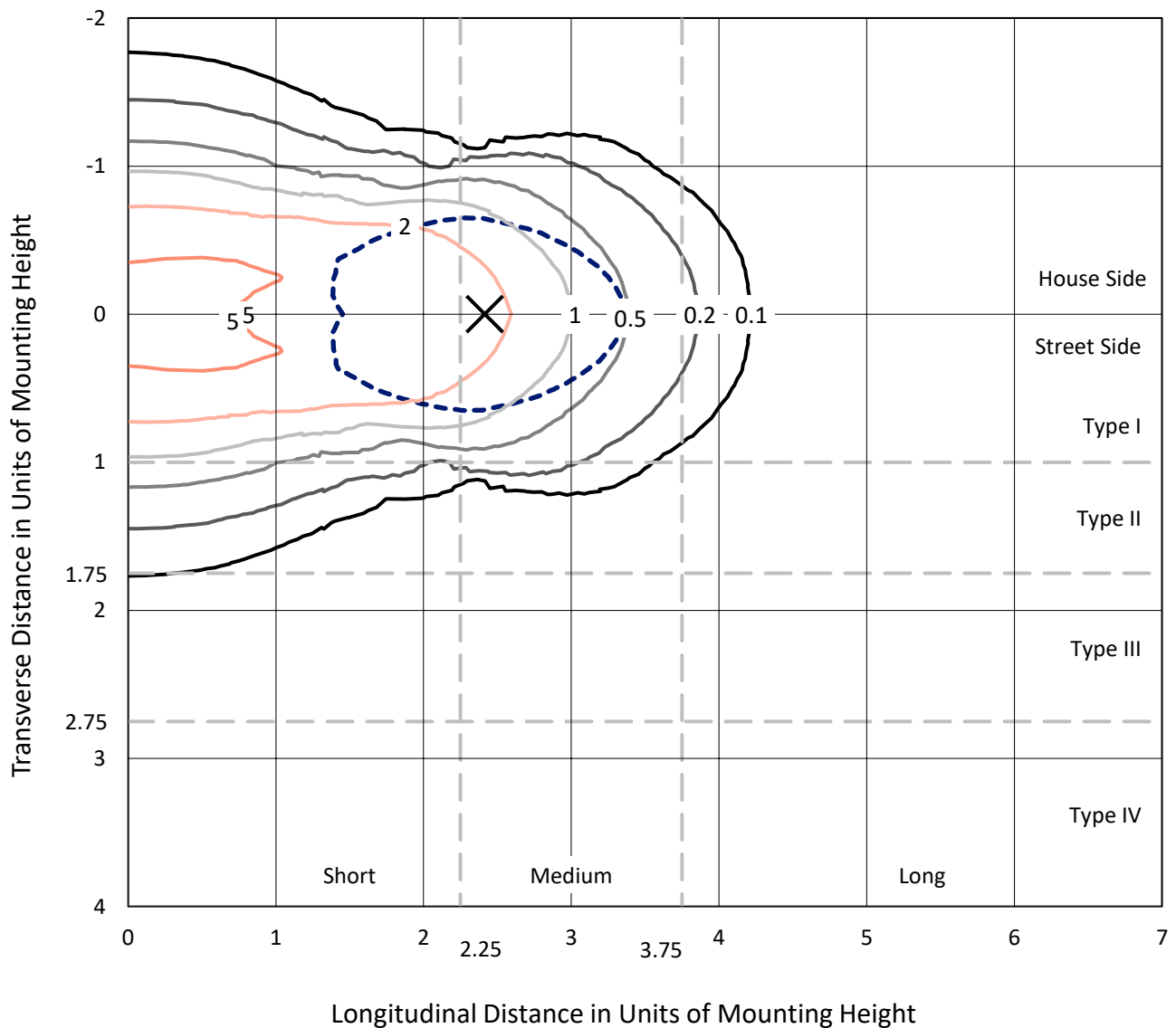
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

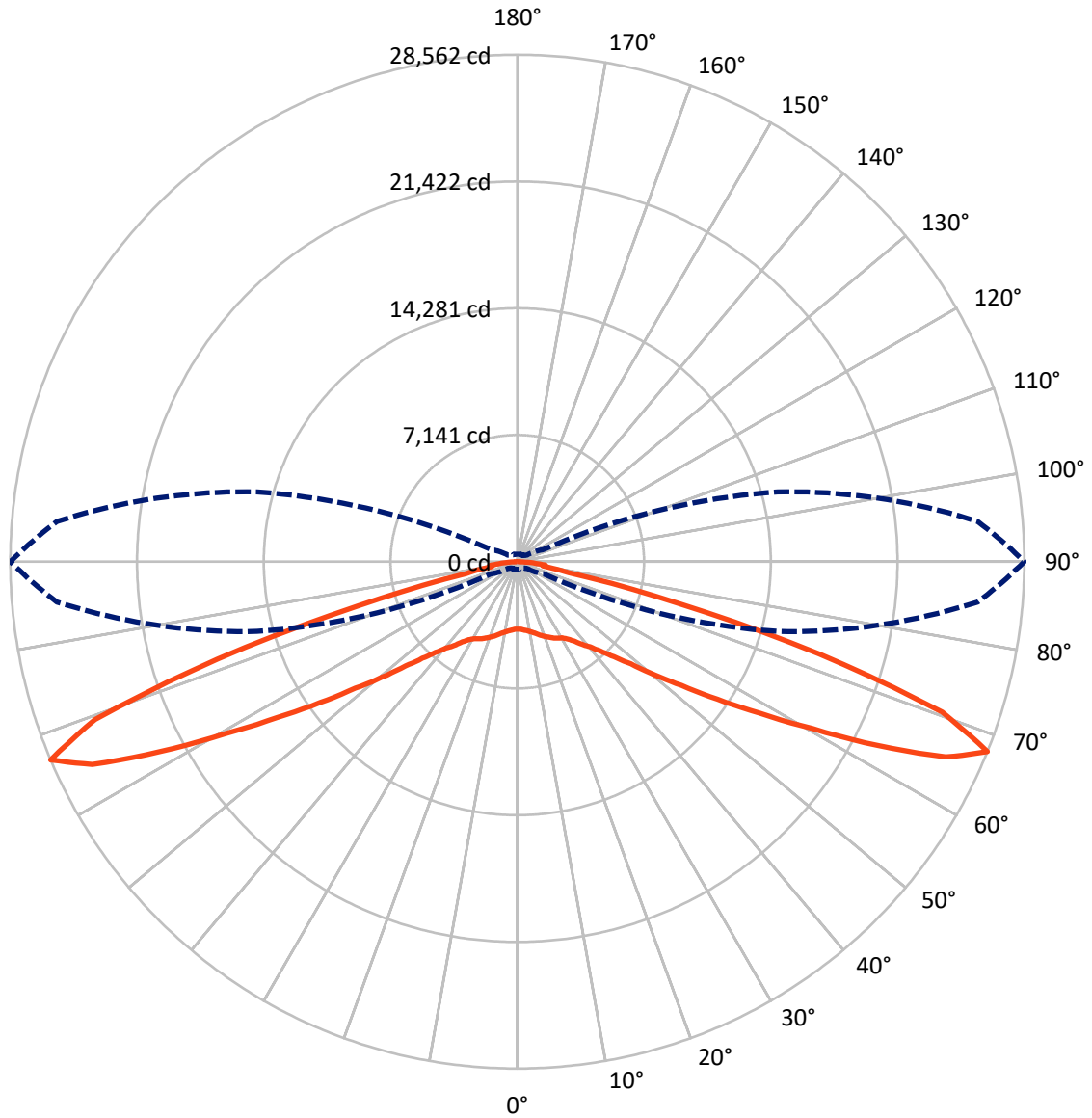
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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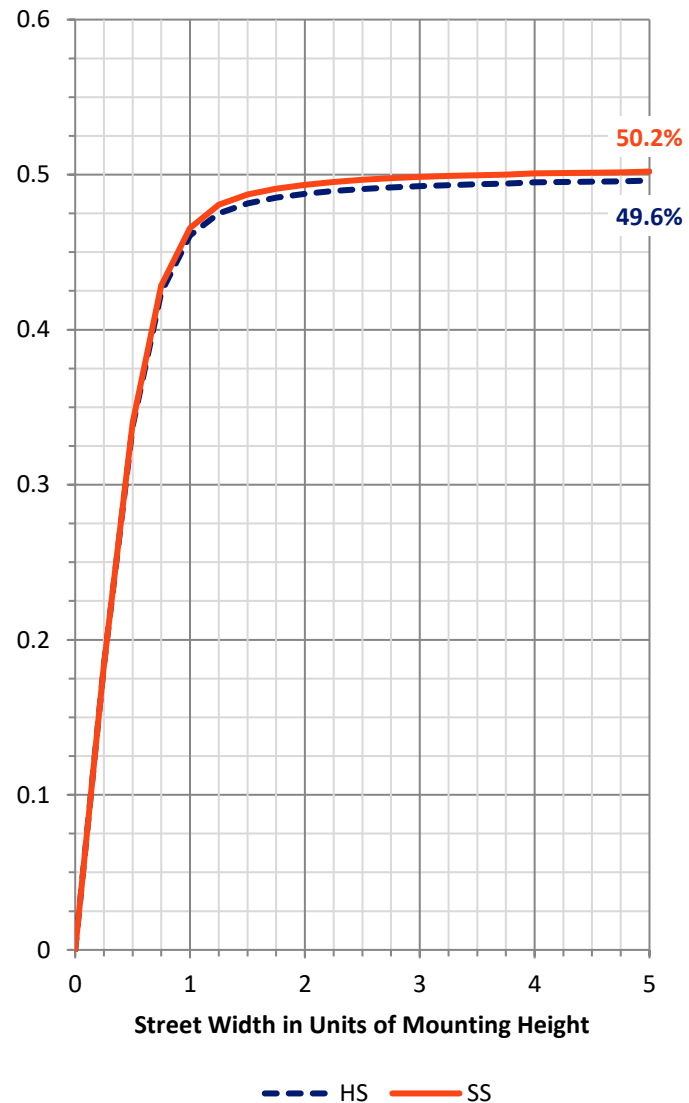
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10737.5	0.0	10737.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10737.5	0.0	10737.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21475.0	0.0	21475.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.0	1.8
10°-20°	1212.7	5.6
20°-30°	2029.8	9.5
30°-40°	2749.8	12.8
40°-50°	3483.1	16.2
50°-60°	4351.2	20.3
60°-70°	5114.6	23.8
70°-80°	1956.6	9.1
80°-90°	198.2	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°	21475.0	100.0
0°-180°	21475.0	100.0



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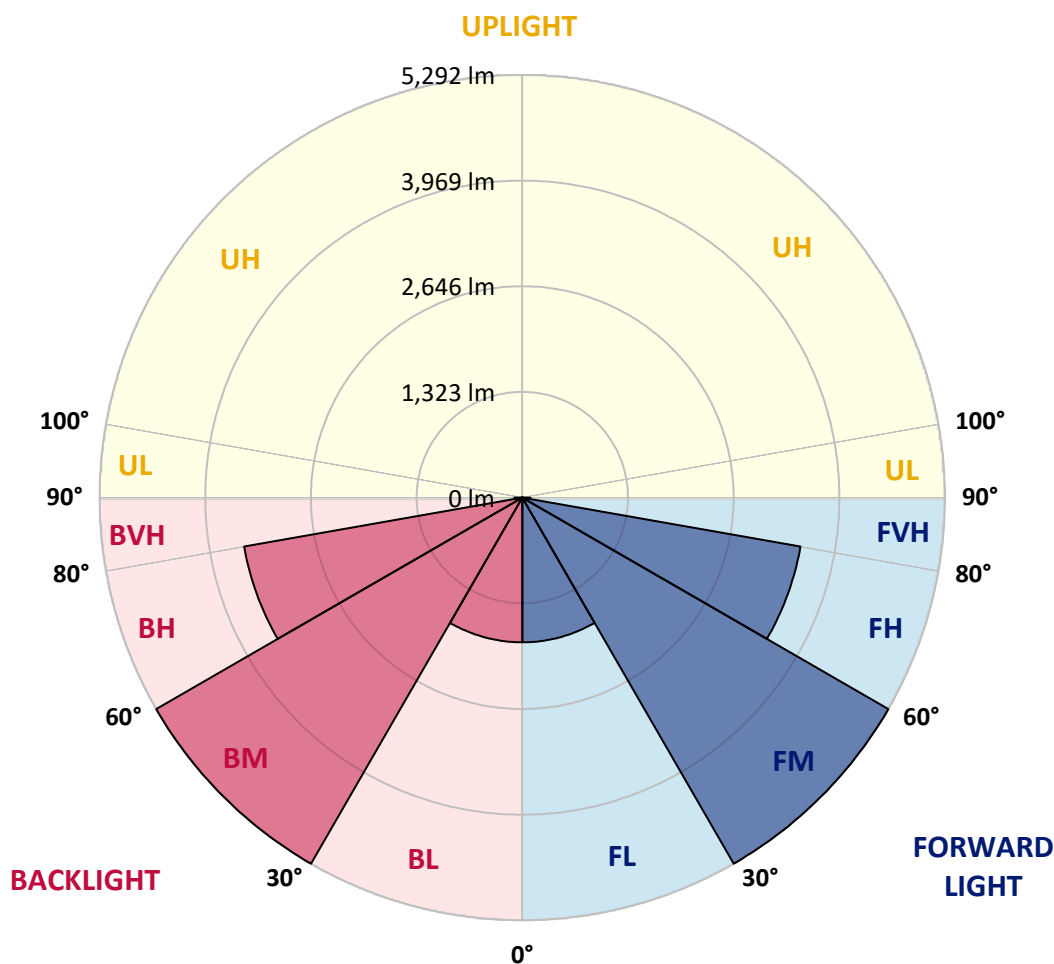
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.7	8.4			
FM (30°-60°)	5292.0	24.6			
FH (60°-80°)	3535.6	16.5			G2/5000
FVH (80°-90°)	99.1	0.5			G1/100
BL (0°-30°)	1810.7	8.4	B3/2500		
BM (30°-60°)	5292.0	24.6	B4/8500		
BH (60°-80°)	3535.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	99.1	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°	3801.7	3801.7	3801.7	3801.7	3801.7	3801.7	3801.7	3801.7	3801.7	3801.7	3801.7
2.5°	3850.5	3848.1	3849.3	3848.1	3851.7	3849.3	3835.0	3823.1	3813.6	3814.8	3811.3
5°	3932.6	3933.7	3934.9	3929.0	3937.3	3932.6	3910.0	3890.9	3871.9	3864.8	3862.4
7.5°	4000.3	4006.3	4009.8	4015.8	4030.1	4030.1	4018.2	3990.8	3949.2	3925.4	3924.2
10°	4068.1	4072.9	4083.6	4102.6	4126.4	4149.0	4144.2	4107.4	4053.8	4013.4	4003.9
12.5°	4091.9	4097.8	4133.5	4188.2	4241.7	4285.7	4285.7	4256.0	4187.0	4125.2	4107.4
15°	4008.7	4019.4	4083.6	4200.1	4340.4	4436.8	4458.2	4416.5	4342.8	4247.7	4226.3
17.5°	3843.4	3869.5	3963.5	4135.9	4369.0	4568.8	4630.6	4610.4	4515.2	4393.9	4369.0
20°	3666.2	3694.7	3794.6	4022.9	4345.2	4646.0	4825.6	4830.4	4712.6	4536.6	4499.8
22.5°	3471.2	3492.6	3621.0	3888.6	4273.8	4663.9	4993.3	5075.3	4916.0	4679.3	4627.0
25°	3252.4	3276.1	3410.5	3699.5	4139.5	4643.7	5146.7	5327.4	5128.8	4831.6	4765.0
27.5°	3043.1	3052.6	3196.5	3490.2	3962.3	4591.3	5259.7	5559.3	5364.3	4957.6	4873.2
30°	2842.1	2864.7	2991.9	3282.1	3758.9	4489.1	5357.2	5823.3	5617.6	5089.6	4981.4
32.5°	2629.2	2656.6	2794.5	3088.2	3555.6	4335.7	5416.6	6112.3	5970.8	5303.7	5188.3
35°	2424.7	2442.5	2581.7	2867.1	3357.0	4157.3	5427.3	6438.1	6426.2	5628.3	5474.9
37.5°	2215.4	2241.6	2381.9	2655.4	3146.5	3968.2	5373.8	6784.2	6975.6	6079.0	5913.7
40°	2014.4	2037.0	2175.0	2450.9	2907.5	3737.5	5246.6	7100.5	7616.6	6542.8	6308.5
42.5°	1795.6	1801.6	1952.6	2233.2	2673.2	3470.0	5063.4	7382.3	8331.3	7164.7	6873.3
45°	1547.1	1562.6	1702.9	1978.8	2404.5	3170.3	4814.9	7615.4	9237.4	8026.8	7629.6
47.5°	1298.6	1311.6	1440.1	1712.4	2110.8	2826.6	4432.0	7819.9	10167.3	9122.0	8601.2
50°	1056.0	1063.1	1167.8	1409.2	1780.2	2465.1	3957.5	7885.3	11218.5	10672.7	10008.0
52.5°	834.8	845.5	925.2	1114.2	1427.0	2038.2	3445.0	7723.6	12445.7	12511.1	11574.1
55°	676.6	680.2	739.7	878.8	1115.4	1591.1	2826.6	7272.9	13765.7	14866.9	13671.8
57.5°	582.7	585.1	618.4	695.7	858.6	1199.9	2192.8	6420.3	14951.3	17626.9	16090.5
60°	529.2	530.4	549.4	594.6	680.2	920.4	1570.9	5216.8	16121.4	20698.5	19096.7
62.5°	495.9	495.9	509.0	533.9	575.6	706.4	1138.0	3763.7	16922.9	23815.3	22802.1
65°	463.8	463.8	473.3	491.1	513.7	577.9	840.7	2454.4	16902.7	26085.4	26529.0
67.5°	426.9	426.9	434.0	451.9	465.0	497.1	649.3	1607.7	15183.2	26035.5	28562.4
70°	382.9	382.9	392.4	407.9	418.6	438.8	512.5	1100.0	11154.3	22230.2	25401.6
72.5°	338.9	340.1	346.0	361.5	369.8	381.7	425.7	770.6	6842.4	15136.8	17761.3
75°	290.2	292.5	298.5	313.9	321.1	325.8	359.1	549.4	3461.6	8161.2	9292.1
77.5°	234.3	239.0	242.6	259.2	264.0	271.1	296.1	397.2	1519.7	2932.5	2958.6
80°	171.2	177.2	187.9	203.3	206.9	211.7	225.9	281.8	688.5	1339.0	1454.3
82.5°	126.1	134.4	121.3	141.5	141.5	135.6	159.3	189.1	316.3	1325.9	1586.3
85°	69.0	70.2	63.0	72.5	77.3	76.1	84.4	92.8	153.4	884.7	912.1
87.5°	16.6	17.8	19.0	22.6	27.4	27.4	29.7	26.2	49.9	286.6	164.1
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)