

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: P458964

Luminaire Tested: **GALN-SA4D-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458964  
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-SA4D-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 28458 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

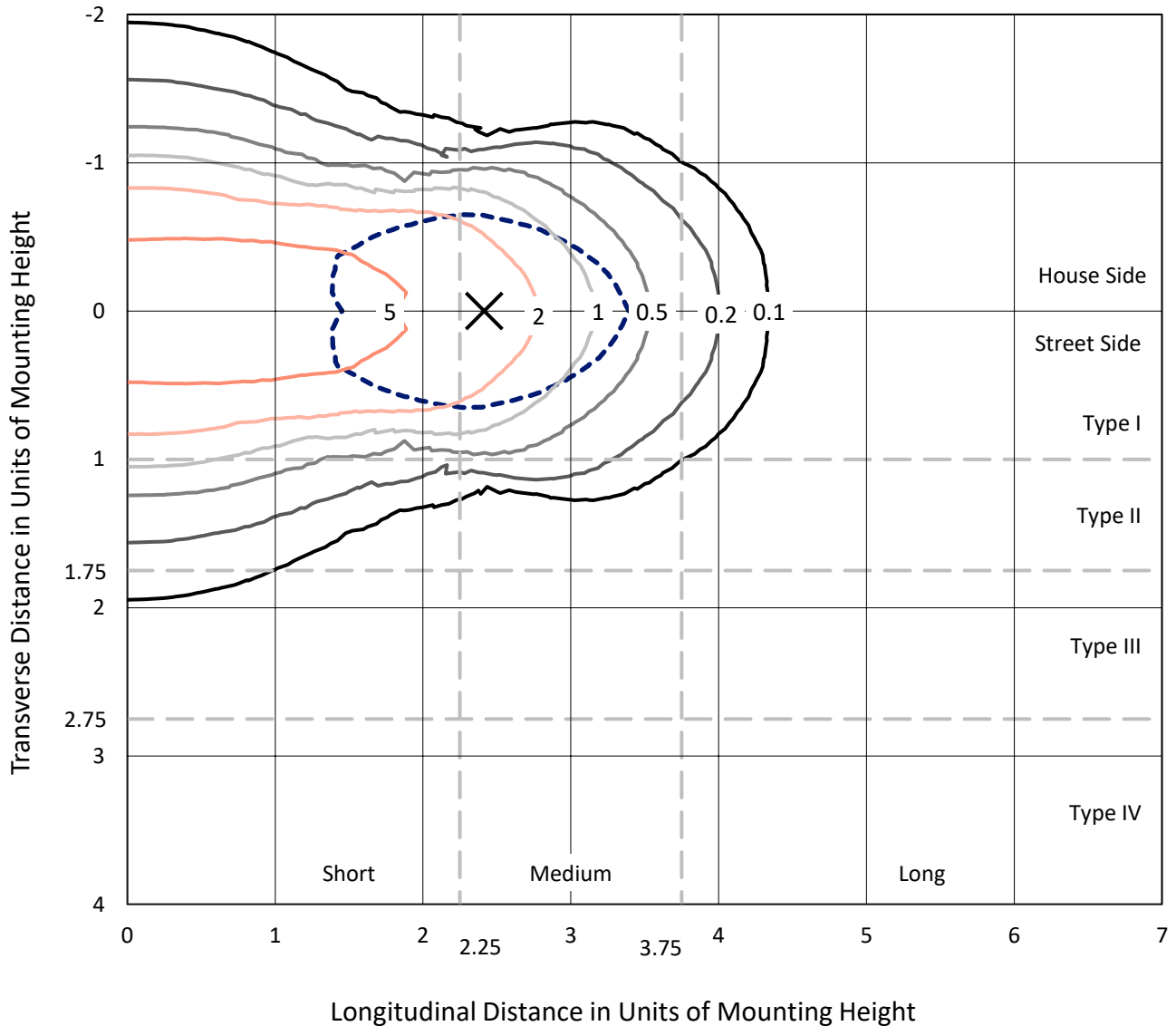
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

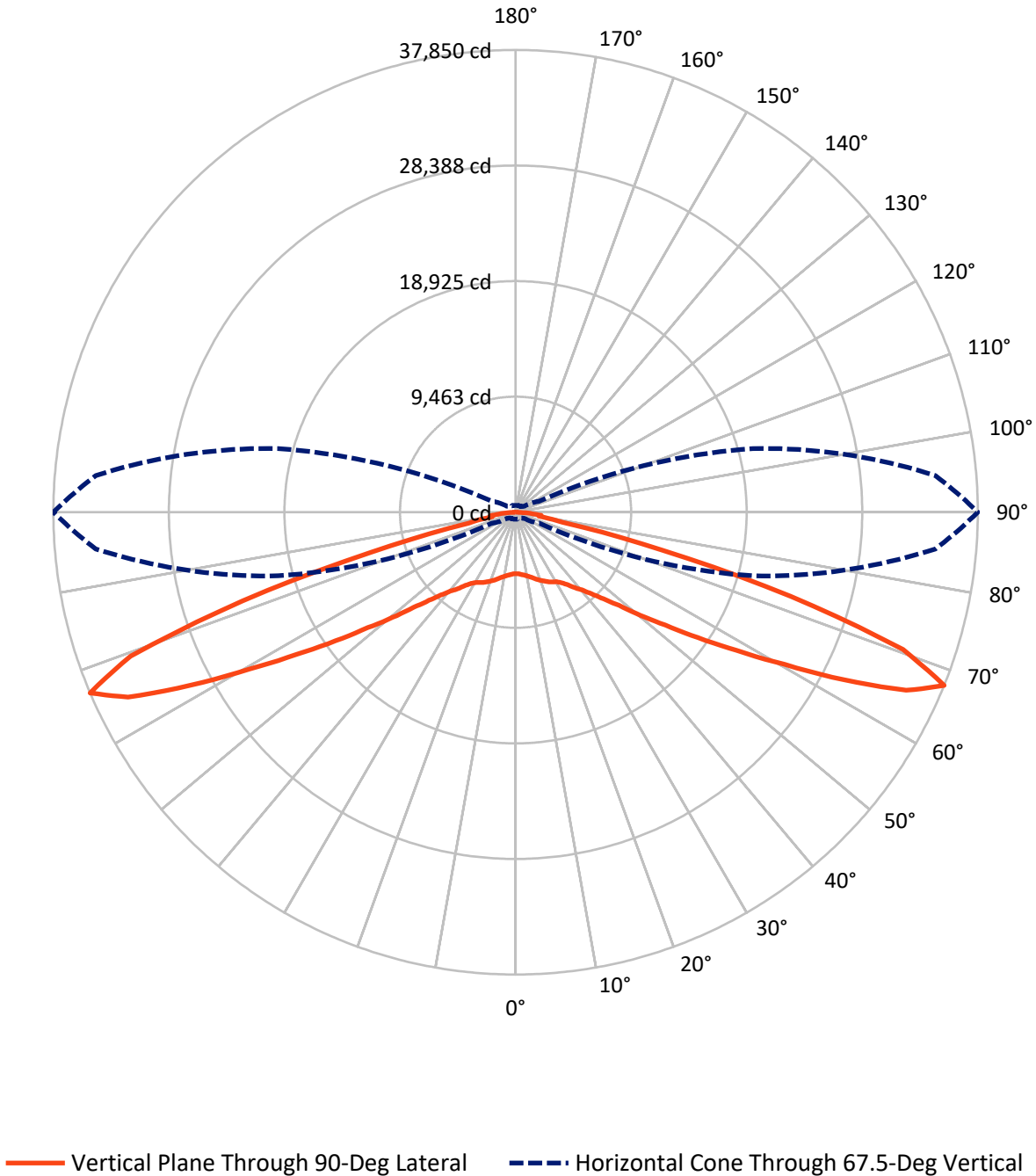
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type I - Short - N/A

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CATALOG NUMBER: GALN-SA4D-735-U-T1

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14229.0	0.0	14229.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14229.0	0.0	14229.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28458.0	0.0	28458.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.3	1.8
10°-20°	1607.0	5.6
20°-30°	2689.8	9.5
30°-40°	3643.9	12.8
40°-50°	4615.6	16.2
50°-60°	5766.1	20.3
60°-70°	6777.8	23.8
70°-80°	2592.8	9.1
80°-90°	262.7	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°	28458.0	100.0
0°-180°	28458.0	100.0

**Coefficient of Utilization**



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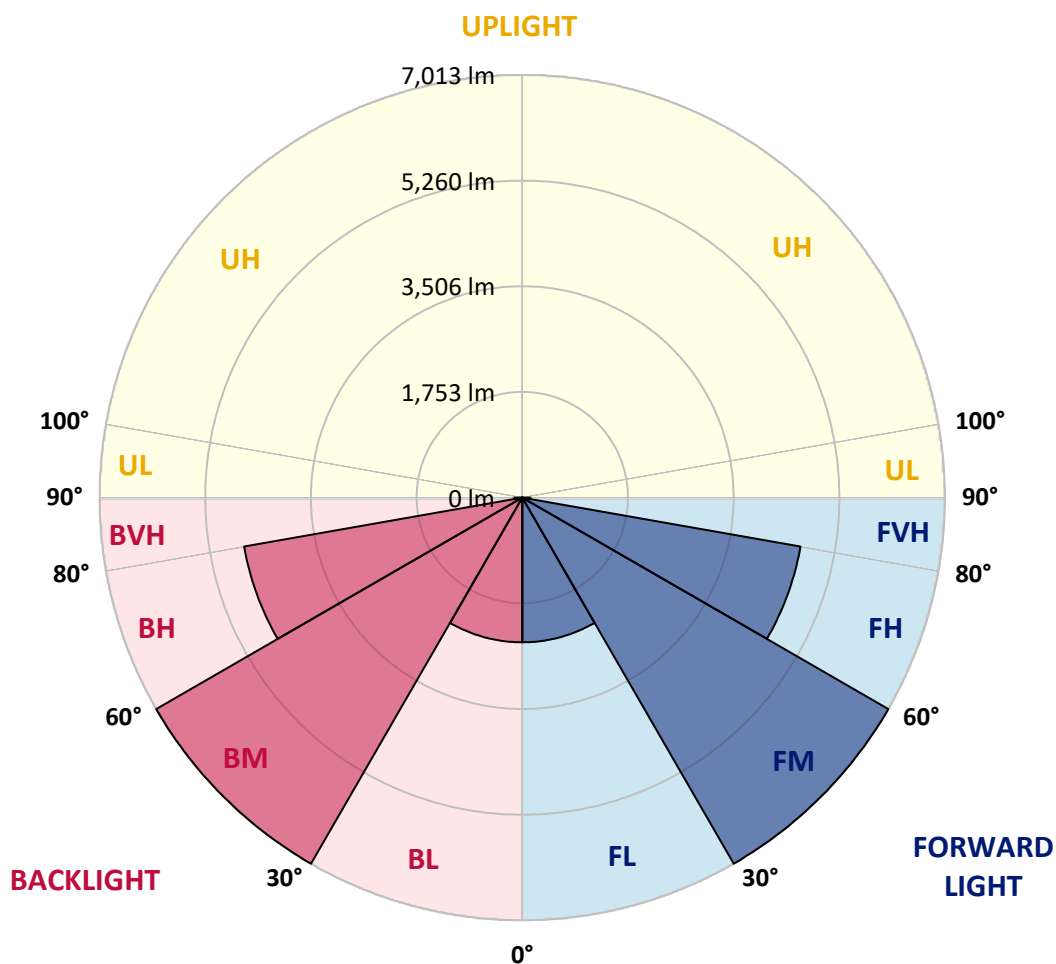
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2399.5	8.4			
FM	(30°-60°)	7012.8	24.6			
FH	(60°-80°)	4685.3	16.5			G2/5000
FVH	(80°-90°)	131.3	0.5			G2/225
BL	(0°-30°)	2399.5	8.4	B3/2500		
BM	(30°-60°)	7012.8	24.6	B4/8500		
BH	(60°-80°)	4685.3	16.5	B4/5000		G4/5000
BVH	(80°-90°)	131.3	0.5			G2/225
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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CATALOG NUMBER: GALN-SA4D-735-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5038.0	5038.0	5038.0	5038.0	5038.0	5038.0	5038.0	5038.0	5038.0	5038.0	5038.0
2.5°	5102.6	5099.4	5101.0	5099.4	5104.1	5101.0	5082.1	5066.3	5053.7	5055.3	5050.6
5°	5211.3	5212.9	5214.4	5206.6	5217.6	5211.3	5181.4	5156.1	5130.9	5121.5	5118.3
7.5°	5301.1	5309.0	5313.7	5321.6	5340.5	5340.5	5324.8	5288.5	5233.4	5201.8	5200.3
10°	5390.9	5397.2	5411.4	5436.6	5468.2	5498.1	5491.8	5442.9	5372.0	5318.5	5305.8
12.5°	5422.5	5430.3	5477.6	5550.1	5621.0	5679.3	5679.3	5639.9	5548.5	5466.6	5442.9
15°	5312.1	5326.3	5411.4	5565.9	5751.8	5879.4	5907.8	5852.7	5755.0	5628.9	5600.5
17.5°	5093.1	5127.8	5252.3	5480.8	5789.6	6054.4	6136.3	6109.5	5983.5	5822.7	5789.6
20°	4858.3	4896.1	5028.5	5331.1	5758.1	6156.8	6394.7	6401.1	6245.0	6011.8	5963.0
22.5°	4599.9	4628.2	4798.4	5153.0	5663.6	6180.4	6616.9	6725.7	6514.5	6200.9	6131.6
25°	4309.9	4341.4	4519.5	4902.4	5485.5	6153.6	6820.2	7059.8	6796.6	6402.6	6314.4
27.5°	4032.6	4045.2	4235.9	4625.1	5250.7	6084.3	6969.9	7367.0	7108.6	6569.7	6457.8
30°	3766.3	3796.2	3964.8	4349.3	4981.2	5948.8	7099.1	7716.9	7444.3	6744.6	6601.2
32.5°	3484.2	3520.4	3703.2	4092.4	4711.8	5745.5	7177.9	8099.8	7912.3	7028.2	6875.4
35°	3213.1	3236.8	3421.1	3799.3	4448.6	5509.1	7192.1	8531.6	8515.8	7458.4	7255.2
37.5°	2935.8	2970.5	3156.4	3518.8	4169.7	5258.6	7121.2	8990.2	9243.9	8055.7	7836.6
40°	2669.5	2699.4	2882.2	3247.8	3852.9	4952.9	6952.6	9409.3	10093.2	8670.3	8359.8
42.5°	2379.5	2387.4	2587.5	2959.4	3542.5	4598.3	6709.9	9782.8	11040.3	9494.4	9108.3
45°	2050.2	2070.7	2256.6	2622.2	3186.3	4201.2	6380.6	10091.7	12241.1	10636.9	10110.6
47.5°	1720.8	1738.1	1908.3	2269.2	2797.1	3745.8	5873.1	10362.7	13473.4	12088.2	11398.0
50°	1399.3	1408.8	1547.5	1867.4	2359.0	3266.7	5244.4	10449.4	14866.4	14143.1	13262.2
52.5°	1106.2	1120.4	1226.0	1476.6	1891.0	2701.0	4565.2	10235.1	16492.7	16579.4	15337.6
55°	896.7	901.4	980.2	1164.5	1478.1	2108.5	3745.8	9637.8	18241.9	19701.1	18117.4
57.5°	772.2	775.3	819.4	921.9	1137.8	1590.0	2905.8	8507.9	19813.0	23358.6	21322.7
60°	701.2	702.8	728.0	787.9	901.4	1219.7	2081.7	6913.2	21363.6	27429.0	25306.4
62.5°	657.1	657.1	674.5	707.6	762.7	936.0	1508.1	4987.5	22425.7	31559.3	30216.7
65°	614.6	614.6	627.2	650.8	680.8	765.9	1114.1	3252.5	22399.0	34567.6	35155.4
67.5°	565.7	565.7	575.2	598.8	616.2	658.7	860.4	2130.5	20120.3	34501.4	37850.0
70°	507.4	507.4	520.0	540.5	554.7	581.5	679.2	1457.6	14781.4	29458.7	33661.5
72.5°	449.1	450.7	458.6	479.1	490.1	505.8	564.1	1021.1	9067.4	20058.8	23536.7
75°	384.5	387.7	395.5	416.0	425.5	431.8	475.9	728.0	4587.3	10815.0	12313.6
77.5°	310.4	316.7	321.5	343.5	349.8	359.3	392.4	526.3	2013.9	3886.0	3920.7
80°	226.9	234.8	249.0	269.5	274.2	280.5	299.4	373.5	912.4	1774.4	1927.2
82.5°	167.0	178.1	160.7	187.5	187.5	179.6	211.2	250.6	419.2	1757.1	2102.2
85°	91.4	93.0	83.5	96.1	102.4	100.9	111.9	122.9	203.3	1172.4	1208.7
87.5°	22.1	23.6	25.2	29.9	36.2	36.2	39.4	34.7	66.2	379.8	217.5
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)