

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: P949547

Luminaire Tested: **GALN-SB4B-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

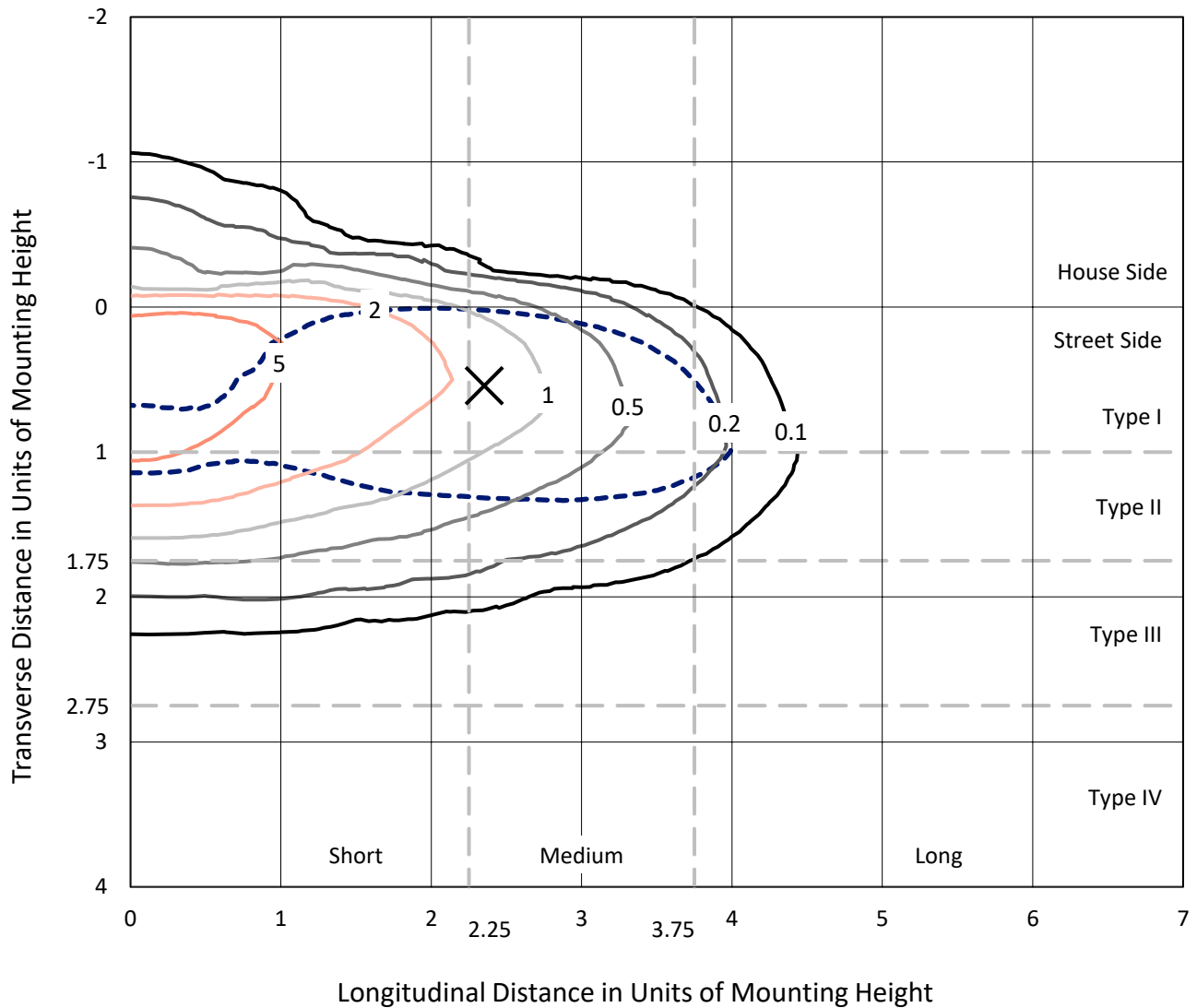
Lumens per Lamp: N/A  
Luminaire Lumens: 19108 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

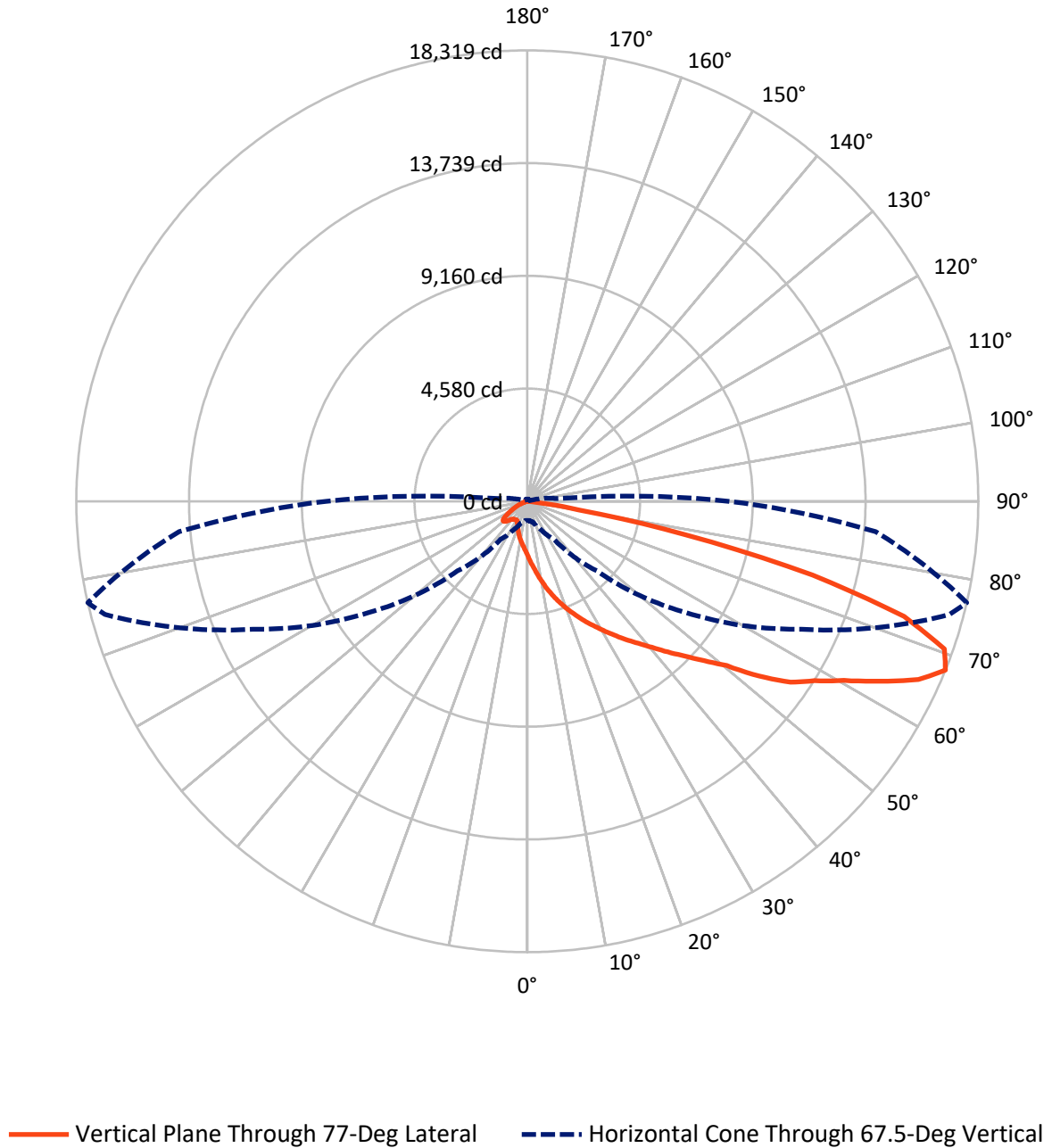
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1405.8	0.0	1405.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	17702.2	0.0	17702.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	19108.0	0.0	19108.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.9	1.2
10°-20°	787.6	4.1
20°-30°	1519.8	8.0
30°-40°	2638.4	13.8
40°-50°	3830.8	20.0
50°-60°	4399.2	23.0
60°-70°	3819.4	20.0
70°-80°	1799.0	9.4
80°-90°	89.0	0.5
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°	19108.0	100.0
0°-180°	19108.0	100.0

**Coefficient of Utilization**





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4
2.5°	3050.6	3069.6	3042.3	2990.1	2911.8	2860.8	2736.2	2618.7	2488.2	2446.7
5°	3718.7	3735.3	3704.4	3647.5	3543.1	3443.4	3279.6	3034.0	2778.9	2697.0
7.5°	4213.5	4223.0	4211.1	4158.9	4059.2	3946.5	3763.8	3473.0	3094.5	3004.4
10°	4569.4	4600.3	4596.7	4576.5	4510.1	4418.7	4224.1	3893.1	3448.1	3331.8
12.5°	4805.5	4840.0	4860.1	4905.2	4901.7	4843.5	4672.7	4322.6	3800.5	3664.1
15°	4874.4	4911.2	4988.3	5092.7	5185.2	5214.9	5095.1	4743.8	4188.5	4014.1
17.5°	4835.2	4892.2	4984.7	5149.7	5352.6	5486.6	5473.6	5150.8	4540.9	4341.6
20°	4921.8	4976.4	5048.8	5187.6	5423.7	5667.0	5764.3	5540.0	4891.0	4682.1
22.5°	5401.2	5391.7	5398.8	5421.4	5562.6	5803.4	6004.0	5893.6	5237.5	5023.9
25°	6160.6	6117.9	6045.5	5923.3	5887.7	6004.0	6212.8	6206.9	5602.9	5373.9
27.5°	7031.5	7024.4	6854.7	6560.5	6394.3	6349.3	6448.9	6511.8	5964.8	5720.4
30°	7865.7	7884.7	7655.7	7328.2	7023.2	6846.4	6756.2	6801.3	6332.6	6094.1
32.5°	8591.8	8612.0	8362.8	7979.6	7602.3	7388.7	7198.8	7087.3	6733.7	6473.8
35°	9205.3	9225.5	8939.5	8515.9	8113.7	7920.3	7705.5	7400.5	7137.1	6895.1
37.5°	9753.5	9747.6	9364.3	8937.1	8542.0	8388.9	8276.2	7786.2	7552.4	7318.7
40°	10077.4	10102.3	9774.8	9303.8	8920.5	8809.0	8801.9	8264.4	8031.8	7805.2
42.5°	10172.3	10216.2	9978.9	9592.1	9244.5	9123.4	9309.7	8781.7	8589.5	8368.8
45°	10001.5	10044.2	9936.2	9668.1	9465.2	9386.8	9746.4	9318.0	9185.1	8966.8
47.5°	9503.1	9556.5	9582.6	9525.7	9523.3	9602.8	10137.9	9882.8	9892.3	9669.2
50°	8538.5	8628.6	8868.3	9070.0	9382.1	9773.7	10518.8	10495.1	10689.7	10497.5
52.5°	6784.7	6912.9	7738.7	8290.5	8991.7	9741.6	10937.7	11477.5	12088.6	11807.4
55°	5452.2	5452.2	6123.8	7156.1	8229.9	9530.4	11120.4	12115.9	13041.4	12975.0
57.5°	4444.8	4498.2	4926.6	5839.0	7127.6	9027.3	11233.1	12517.0	13809.1	13760.5
60°	2743.3	2858.4	3667.6	4568.2	5873.4	8131.5	11161.9	12922.8	14740.6	14779.7
62.5°	1544.9	1587.6	1948.3	3286.8	4567.1	6927.1	10617.3	13149.4	15931.9	16098.0
65°	1066.7	1088.1	1226.9	2045.6	3165.7	5515.1	9553.0	13008.2	17125.6	17461.3
67.5°	774.8	785.5	872.1	1249.4	1878.3	3998.7	7884.7	12296.3	17758.0	18319.2
70°	595.7	602.8	665.7	821.1	1109.4	2468.0	5726.3	10880.7	17300.0	17970.4
72.5°	484.1	491.2	539.9	607.5	735.7	1459.5	3470.7	8836.3	15278.1	16001.9
75°	408.2	417.7	461.6	505.5	576.7	937.4	1628.0	6153.5	11489.4	11964.0
77.5°	226.6	208.8	375.0	418.9	486.5	593.3	761.8	3621.4	6434.7	6566.4
80°	141.2	145.9	297.8	337.0	373.8	299.0	348.8	1394.2	2230.7	2119.2
82.5°	8.3	19.0	229.0	243.2	256.3	128.1	131.7	473.4	537.5	493.6
85°	0.0	0.0	104.4	84.2	89.0	36.8	38.0	110.3	72.4	78.3
87.5°	0.0	0.0	0.0	2.4	0.0	3.6	7.1	9.5	3.6	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2203.4	0°	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4	2203.4
2316.2	2.5°	2233.1	2150.0	1981.5	1816.6	1682.5	1557.9	1469.0	1384.7	1342.0	1339.6
2465.7	5°	2300.7	2126.3	1789.3	1491.5	1251.8	1059.6	935.0	846.0	800.9	785.5
2649.6	7.5°	2395.7	2133.4	1620.8	1206.7	924.3	759.4	688.2	659.7	650.2	639.6
2857.2	10°	2515.5	2150.0	1470.1	971.8	728.5	645.5	617.0	605.1	598.0	590.9
3091.0	12.5°	2649.6	2165.5	1320.6	806.9	640.7	598.0	577.9	563.6	554.1	545.8
3330.7	15°	2780.1	2175.0	1165.2	691.8	595.7	561.2	539.9	524.5	511.4	501.9
3565.6	17.5°	2909.4	2188.0	1019.3	622.9	558.9	524.5	503.1	484.1	473.4	462.8
3812.4	20°	3053.0	2185.6	881.6	574.3	522.1	487.7	465.1	447.3	436.7	424.8
4073.4	22.5°	3185.9	2173.8	760.6	532.8	484.1	450.9	426.0	408.2	397.5	388.0
4340.4	25°	3339.0	2164.3	659.7	494.8	448.5	415.3	388.0	371.4	359.5	351.2
4608.6	27.5°	3486.1	2150.0	586.2	460.4	414.1	382.1	356.0	337.0	326.3	320.4
4885.0	30°	3630.9	2146.5	558.9	427.2	383.3	351.2	325.1	307.3	299.0	296.6
5188.8	32.5°	3805.3	2156.0	570.7	415.3	354.8	322.7	297.8	284.8	276.5	276.5
5527.0	35°	3991.6	2153.6	588.5	426.0	335.8	294.3	275.3	267.0	258.7	258.7
5901.9	37.5°	4225.3	2157.2	602.8	443.8	328.7	270.5	259.9	249.2	244.4	244.4
6312.5	40°	4574.2	2274.6	595.7	459.2	326.3	253.9	232.6	229.0	225.4	225.4
6776.4	42.5°	5001.3	2529.7	605.1	460.4	325.1	242.1	213.6	220.7	212.4	211.2
7299.7	45°	5468.8	2808.6	665.7	435.5	323.9	236.1	204.1	212.4	199.3	199.3
7906.0	47.5°	5932.8	3085.0	727.4	399.9	320.4	234.9	195.8	191.0	187.5	188.7
8696.3	50°	6572.3	3310.5	751.1	351.2	312.1	232.6	180.4	181.5	179.2	181.5
9810.4	52.5°	7268.8	3358.0	722.6	296.6	288.3	225.4	169.7	174.4	173.2	175.6
10594.8	55°	7703.1	3306.9	596.8	246.8	251.5	197.0	159.0	168.5	168.5	168.5
11361.3	57.5°	8151.6	3089.8	423.6	200.5	208.8	161.4	149.5	162.6	161.4	160.2
12284.4	60°	8474.4	2738.6	278.8	164.9	166.1	132.9	138.8	153.1	151.9	145.9
13236.0	62.5°	8715.2	2350.6	179.2	140.0	127.0	119.8	127.0	138.8	134.1	121.0
14042.9	65°	8688.0	1813.1	137.6	119.8	104.4	104.4	110.3	121.0	106.8	85.4
14197.1	67.5°	8181.3	1226.9	113.9	100.9	87.8	86.6	91.4	100.9	91.4	72.4
13406.9	70°	7276.0	802.1	91.4	78.3	70.0	64.1	73.6	86.6	77.1	58.1
11413.5	72.5°	5905.5	488.9	68.8	57.0	51.0	41.5	58.1	71.2	61.7	42.7
7936.9	75°	3820.7	249.2	47.5	36.8	27.3	24.9	42.7	53.4	42.7	26.1
3521.7	77.5°	1461.8	104.4	26.1	16.6	14.2	11.9	23.7	32.0	17.8	5.9
682.3	80°	281.2	43.9	13.1	8.3	7.1	4.7	3.6	2.4	0.0	0.0
121.0	82.5°	48.6	14.2	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
23.7	85°	16.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2203.4
1337.2
783.1
637.2
588.5
543.4
500.7
461.6
423.6
386.8
350.0
320.4
295.5
276.5
258.7
244.4
225.4
210.0
199.3
188.7
181.5
175.6
168.5
160.2
145.9
118.7
83.1
70.0
55.8
40.3
22.5
4.7
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