

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: P945044

Luminaire Tested: **GALN-SB1A-840-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-840-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

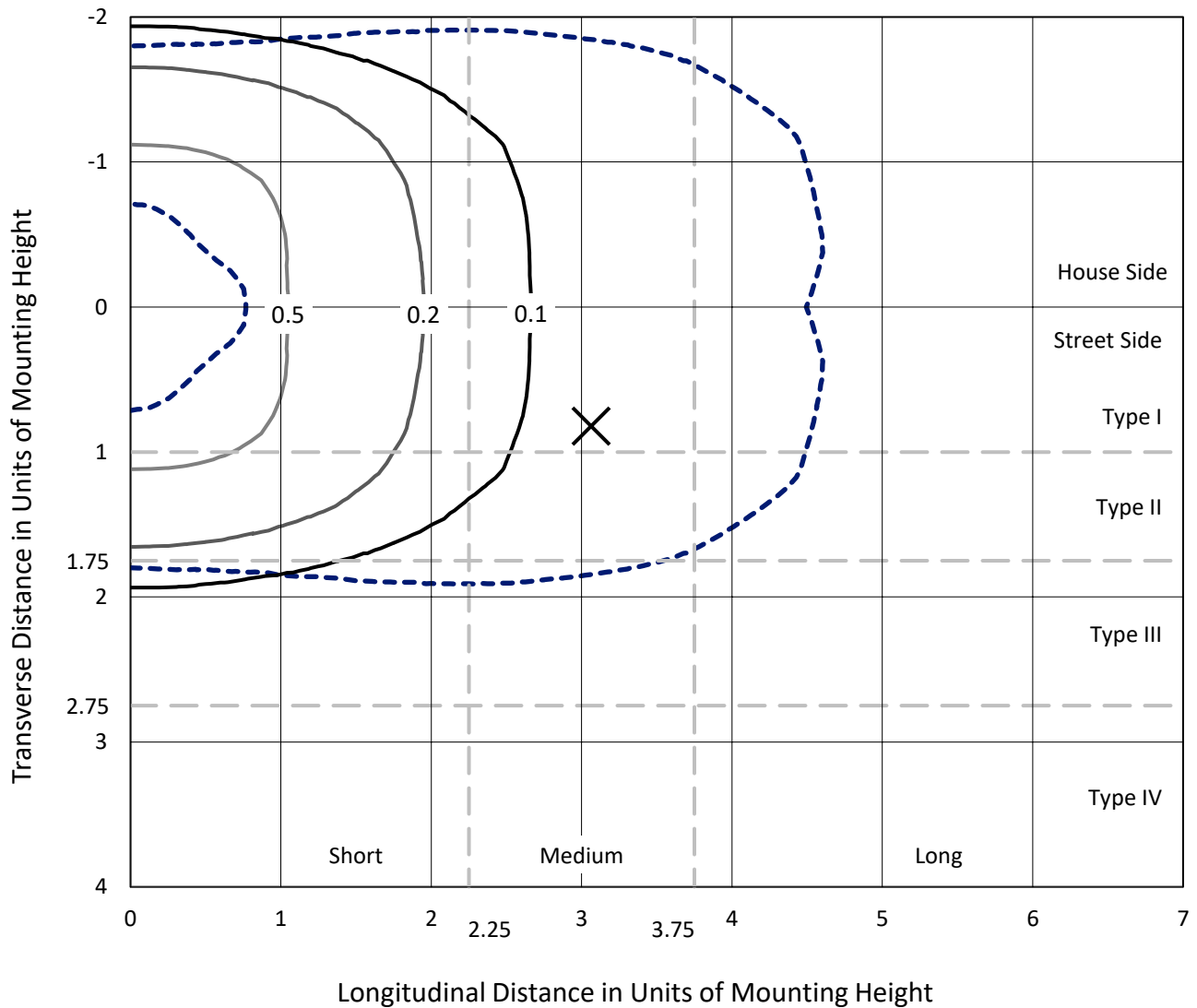
Lumens per Lamp: N/A  
Luminaire Lumens: 4420 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): 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

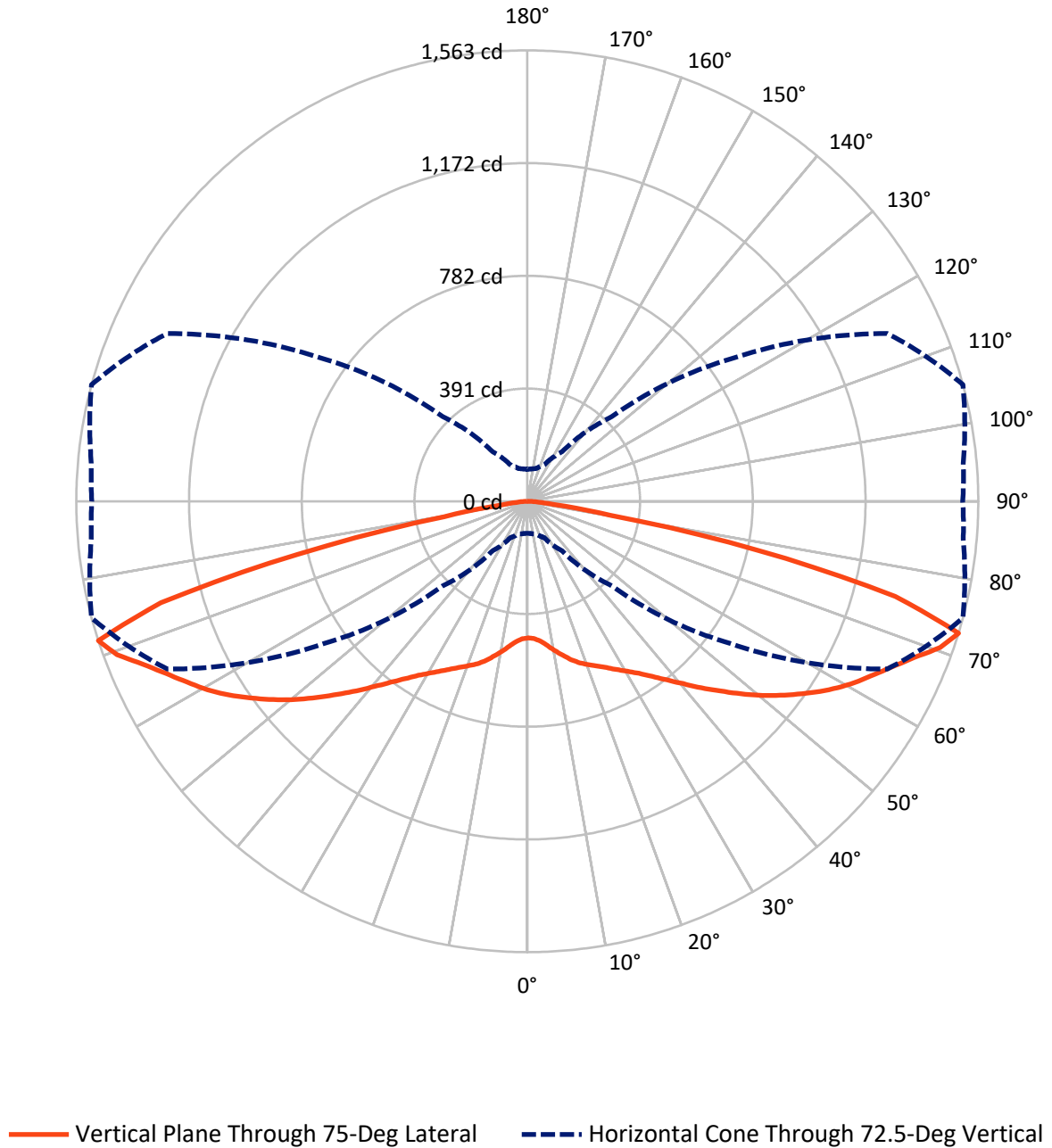
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - 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	2210.0	0.0	2210.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2210.0	0.0	2210.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4420.0	0.0	4420.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	1.0
10°-20°	153.0	3.5
20°-30°	295.6	6.7
30°-40°	499.1	11.3
40°-50°	791.5	17.9
50°-60°	1059.8	24.0
60°-70°	1008.6	22.8
70°-80°	526.3	11.9
80°-90°	39.8	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°	4420.0	100.0
0°-180°	4420.0	100.0

**Coefficient of Utilization**



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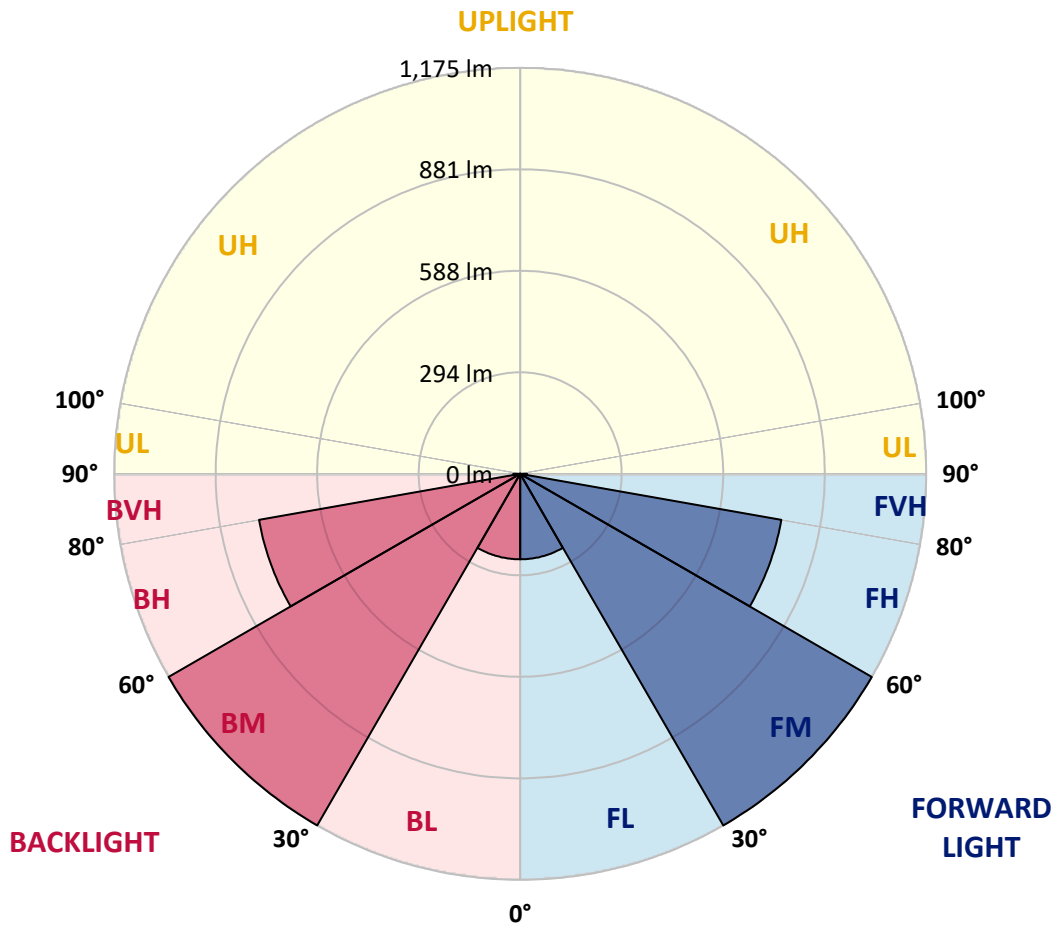
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.5	5.6			
FM (30°-60°)	1175.2	26.6			
FH (60°-80°)	767.4	17.4			G1/1800
FVH (80°-90°)	19.9	0.5			G1/100
BL (0°-30°)	247.5	5.6	B1/500		
BM (30°-60°)	1175.2	26.6	B2/2500		
BH (60°-80°)	767.4	17.4	B2/1000		G2/1000
BVH (80°-90°)	19.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5
2.5°	473.5	473.0	473.5	473.9	473.7	473.7	474.8	475.5	476.8	476.6
5°	470.3	470.1	471.9	473.9	475.5	478.2	481.6	484.1	487.2	487.9
7.5°	468.7	468.0	471.2	474.8	479.8	486.6	493.1	499.9	505.3	507.1
10°	469.9	470.1	474.4	481.1	489.0	498.5	507.8	519.3	526.9	528.8
12.5°	475.0	474.6	481.8	492.6	503.5	515.4	526.3	538.9	547.3	551.5
15°	484.5	483.6	493.8	509.8	525.6	539.6	548.4	560.3	570.0	575.5
17.5°	495.8	496.3	509.6	530.3	551.1	566.9	575.2	581.3	588.8	593.5
20°	515.7	516.6	531.5	556.1	579.8	597.8	604.6	602.3	604.4	608.0
22.5°	542.3	542.7	559.4	586.1	610.9	630.8	635.3	626.0	620.4	622.9
25°	573.2	576.1	592.8	620.1	645.6	664.6	666.6	652.6	638.7	639.3
27.5°	610.9	613.6	630.5	657.6	683.6	700.0	699.8	681.1	660.5	655.4
30°	651.7	654.7	672.1	700.0	724.2	738.6	735.5	713.1	683.8	674.1
32.5°	700.3	702.1	719.7	747.7	770.0	781.5	775.0	747.4	710.9	699.8
35°	758.9	761.6	774.7	801.1	820.8	830.2	819.2	786.7	745.6	733.2
37.5°	826.0	824.2	839.1	862.5	878.8	884.6	869.5	830.9	785.3	770.7
40°	895.9	895.0	911.3	933.8	942.6	946.2	923.9	881.7	831.2	815.4
42.5°	959.3	958.7	980.5	1005.6	1016.2	1012.1	983.9	935.6	884.2	866.1
45°	1010.1	1009.2	1036.1	1071.3	1092.0	1085.3	1047.3	995.2	937.9	919.2
47.5°	1049.2	1049.6	1078.5	1122.0	1158.4	1160.9	1112.1	1055.9	997.0	975.8
50°	1077.4	1078.7	1109.6	1157.9	1207.6	1229.5	1178.2	1118.2	1058.2	1034.3
52.5°	1084.4	1086.8	1124.1	1180.7	1239.2	1280.9	1245.5	1178.0	1116.2	1093.4
55°	1047.1	1052.1	1099.3	1178.9	1258.6	1314.8	1304.6	1238.7	1174.6	1151.2
57.5°	961.6	968.6	1023.7	1127.7	1254.3	1338.0	1350.4	1296.9	1233.1	1210.5
60°	841.8	850.1	902.9	1016.4	1193.8	1346.6	1382.7	1353.6	1286.8	1264.9
62.5°	661.0	671.8	735.0	868.2	1066.1	1306.6	1410.2	1404.8	1335.1	1307.8
65°	424.0	435.5	502.1	659.4	895.7	1184.3	1418.8	1454.7	1386.1	1347.9
67.5°	255.7	260.9	293.8	399.7	654.7	1000.0	1346.1	1510.0	1445.7	1398.3
70°	163.6	166.5	186.2	234.7	370.1	729.6	1166.1	1520.4	1517.9	1449.9
72.5°	111.0	111.9	117.1	139.0	209.4	414.6	860.0	1376.4	1563.0	1516.5
75°	81.2	86.2	94.6	98.4	118.9	207.2	492.9	967.0	1317.3	1337.6
77.5°	60.5	60.7	72.2	76.7	84.9	110.4	208.5	539.8	817.8	858.7
80°	51.2	48.5	48.3	61.8	63.9	68.8	93.2	186.4	292.9	177.6
82.5°	42.7	39.7	35.9	48.3	43.6	42.2	40.4	75.8	93.2	45.8
85°	29.8	28.4	27.1	31.6	24.8	21.2	19.4	35.4	39.3	19.4
87.5°	12.9	13.3	13.5	14.0	10.4	7.4	7.4	9.9	9.9	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
473.5
476.4
487.9
507.5
530.6
553.3
577.5
595.8
610.7
624.7
640.5
656.9
675.2
702.5
735.0
773.4
820.5
870.6
923.5
982.1
1041.5
1099.3
1157.7
1215.7
1269.6
1310.9
1352.7
1401.9
1449.5
1509.3
1288.4
765.9
134.3
39.0
17.2
5.6
0.0

OF REPORT)