

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: LUMARK

Report Number: P881782

Luminaire Tested: **NAV-SB1B-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4810 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

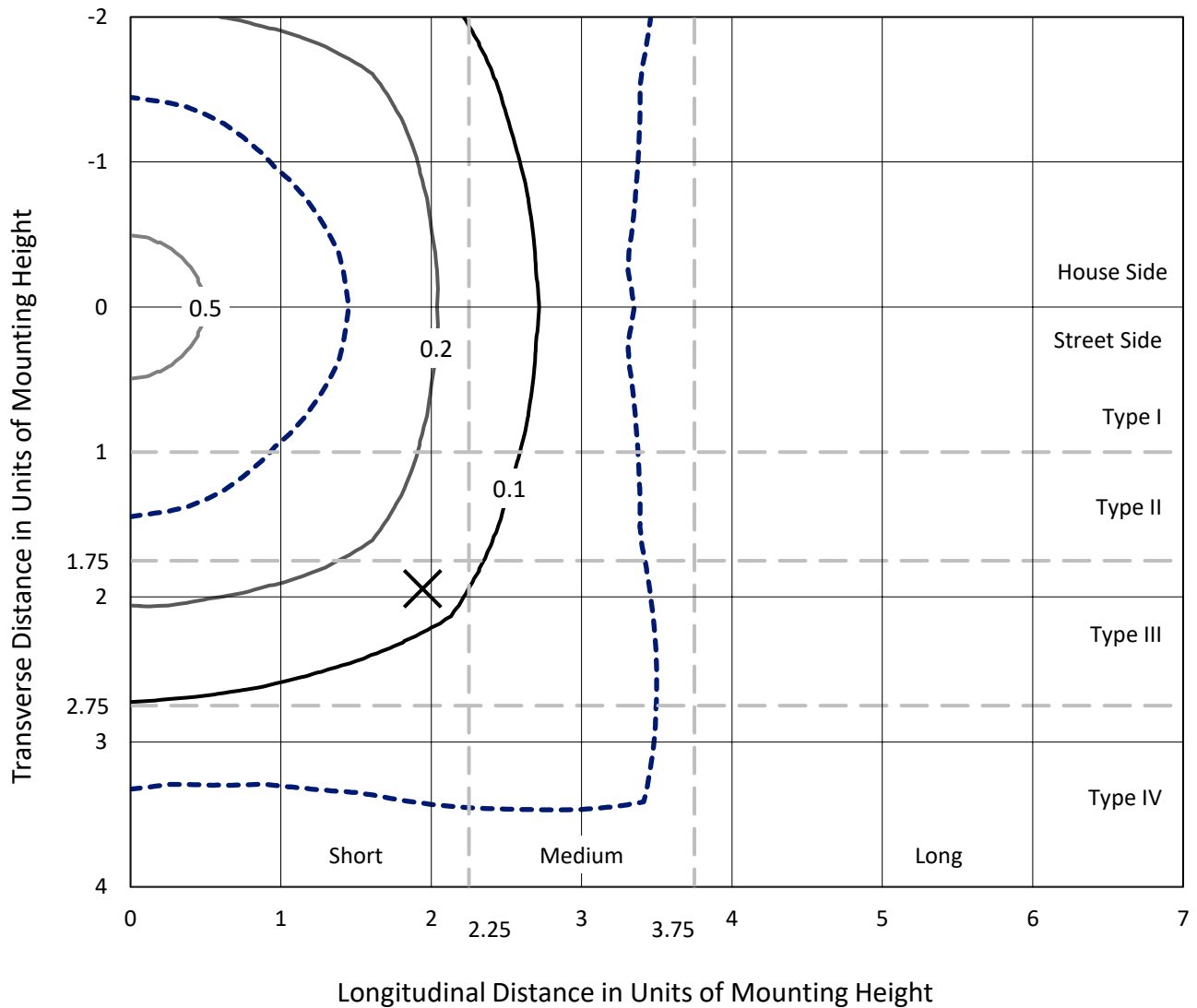
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

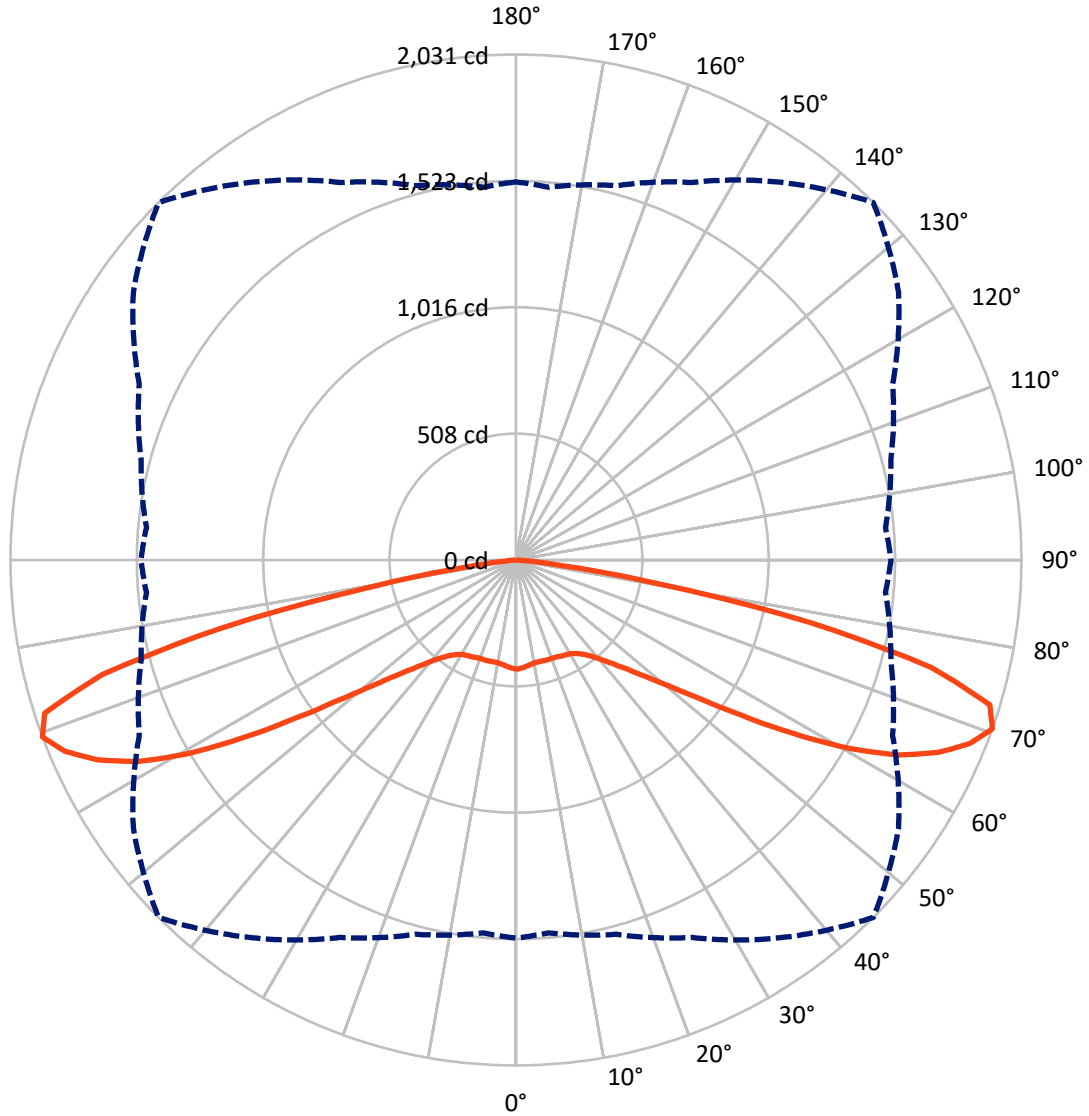
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.0	0.0	2405.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2405.0	0.0	2405.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4810.0	0.0	4810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	0.8
10°-20°	119.8	2.5
20°-30°	199.4	4.1
30°-40°	301.6	6.3
40°-50°	501.2	10.4
50°-60°	945.8	19.7
60°-70°	1597.0	33.2
70°-80°	1049.4	21.8
80°-90°	55.0	1.1
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°	4810.0	100.0
0°-180°	4810.0	100.0

Coefficient of Utilization

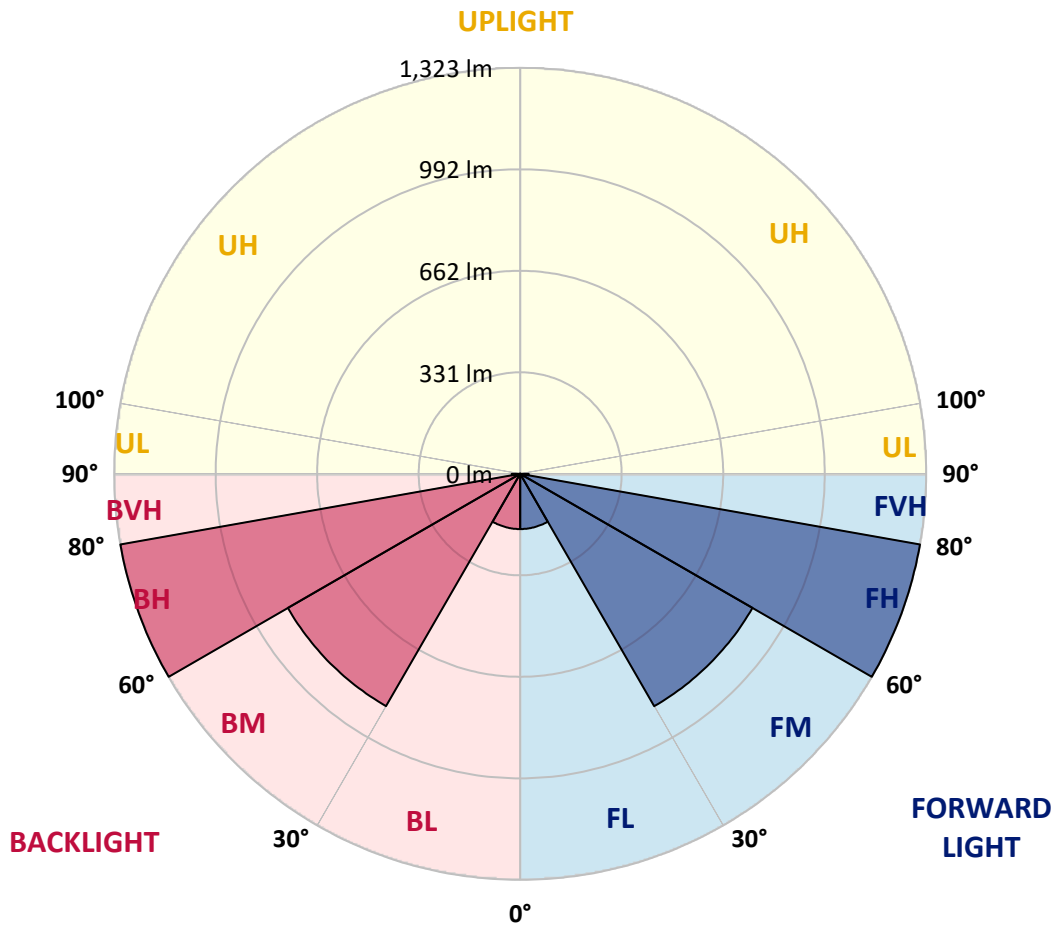


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.1	3.7			
FM (30°-60°)	874.3	18.2			
FH (60°-80°)	1323.2	27.5			G1/1800
FVH (80°-90°)	27.5	0.6			G1/100
BL (0°-30°)	180.1	3.7	B1/500		
BM (30°-60°)	874.3	18.2	B1/1000		
BH (60°-80°)	1323.2	27.5	B3/2500		G1/1800
BVH (80°-90°)	27.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	436.0	437.3	436.8	435.8	435.8	435.0	435.8	436.3	437.0	437.5	437.3
5°	430.3	431.3	431.0	430.3	430.5	429.8	430.3	431.0	431.5	431.8	431.8
7.5°	425.3	426.3	425.8	424.5	424.5	423.8	424.0	424.8	425.5	425.8	425.8
10°	424.0	425.0	423.5	421.5	420.8	419.8	420.0	420.8	422.3	423.0	423.0
12.5°	424.5	425.3	423.8	420.8	420.0	419.0	419.0	419.8	421.8	422.8	423.0
15°	426.0	426.8	424.5	421.3	420.5	419.8	419.5	420.5	422.8	424.5	424.8
17.5°	428.8	429.5	426.0	421.5	420.5	420.8	420.5	421.3	424.8	428.0	428.0
20°	431.3	431.8	427.0	421.5	420.5	420.8	420.5	422.0	426.5	431.0	431.3
22.5°	432.0	432.5	428.0	423.3	422.5	422.8	422.5	424.0	428.3	432.8	432.8
25°	432.3	433.0	429.5	425.8	427.0	427.5	427.0	427.3	430.5	434.5	434.3
27.5°	436.0	437.0	433.8	430.5	431.3	431.0	431.8	432.5	435.0	439.0	438.0
30°	443.8	444.5	441.8	438.5	438.0	436.3	438.5	441.0	443.8	447.3	446.5
32.5°	456.5	458.0	454.5	451.0	448.8	447.8	449.5	453.8	457.5	461.3	459.8
35°	477.8	478.8	475.5	469.0	465.0	465.0	466.5	472.0	478.0	482.8	481.0
37.5°	507.8	509.0	503.3	495.5	489.5	489.5	491.5	497.3	506.3	513.0	510.5
40°	544.3	546.0	538.8	530.8	525.0	524.0	526.5	533.0	541.5	550.0	547.3
42.5°	588.3	590.3	580.8	573.8	569.3	569.3	570.5	576.5	584.3	594.8	594.0
45°	644.5	648.0	635.0	628.0	623.8	624.8	625.5	630.8	637.8	649.8	649.3
47.5°	711.5	715.0	701.3	694.0	693.3	698.0	695.0	698.8	702.5	716.3	712.3
50°	787.5	793.5	784.0	783.5	785.0	793.8	786.8	788.8	784.5	793.3	788.0
52.5°	880.5	889.3	887.5	890.5	907.3	925.3	909.3	902.3	886.3	889.0	879.8
55°	993.3	1006.5	1009.0	1027.0	1065.0	1101.8	1067.8	1039.5	1005.5	999.3	989.5
57.5°	1121.5	1132.0	1144.0	1180.8	1251.8	1317.1	1251.8	1189.3	1135.8	1123.0	1114.0
60°	1259.6	1272.6	1284.1	1338.3	1443.8	1535.6	1441.8	1342.6	1271.8	1254.6	1239.6
62.5°	1407.8	1424.6	1432.6	1492.8	1615.8	1725.3	1617.6	1497.3	1418.8	1400.3	1385.3
65°	1550.1	1563.8	1572.8	1637.1	1754.6	1864.3	1762.6	1644.1	1563.3	1539.1	1527.1
67.5°	1616.3	1623.8	1645.8	1718.6	1842.6	1967.8	1863.6	1726.3	1636.1	1593.6	1594.1
70°	1519.3	1504.1	1557.1	1673.6	1853.1	2031.3	1877.1	1670.1	1559.6	1490.6	1507.1
72.5°	1174.1	1147.8	1239.8	1439.1	1733.1	1990.8	1745.1	1450.3	1297.1	1157.0	1191.8
75°	638.8	609.0	736.0	988.0	1382.1	1725.6	1413.8	1016.3	819.5	634.0	675.3
77.5°	180.3	169.0	271.5	478.0	831.3	1211.6	863.3	488.5	322.0	191.0	212.3
80°	55.3	53.5	72.5	144.0	353.0	580.3	339.3	145.8	92.3	58.3	61.5
82.5°	32.8	30.0	36.0	52.5	90.0	182.3	87.5	54.8	44.0	29.5	32.0
85°	18.8	17.5	21.3	25.5	30.3	38.8	25.3	26.0	23.5	15.8	16.5
87.5°	7.8	7.0	8.3	8.0	7.0	9.0	6.8	8.0	9.5	6.3	5.8
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)