

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: P881722

Luminaire Tested: **NAV-SB1B-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881722
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 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: 5701 lumens
Efficiency: N/A
Efficacy: 143.2 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

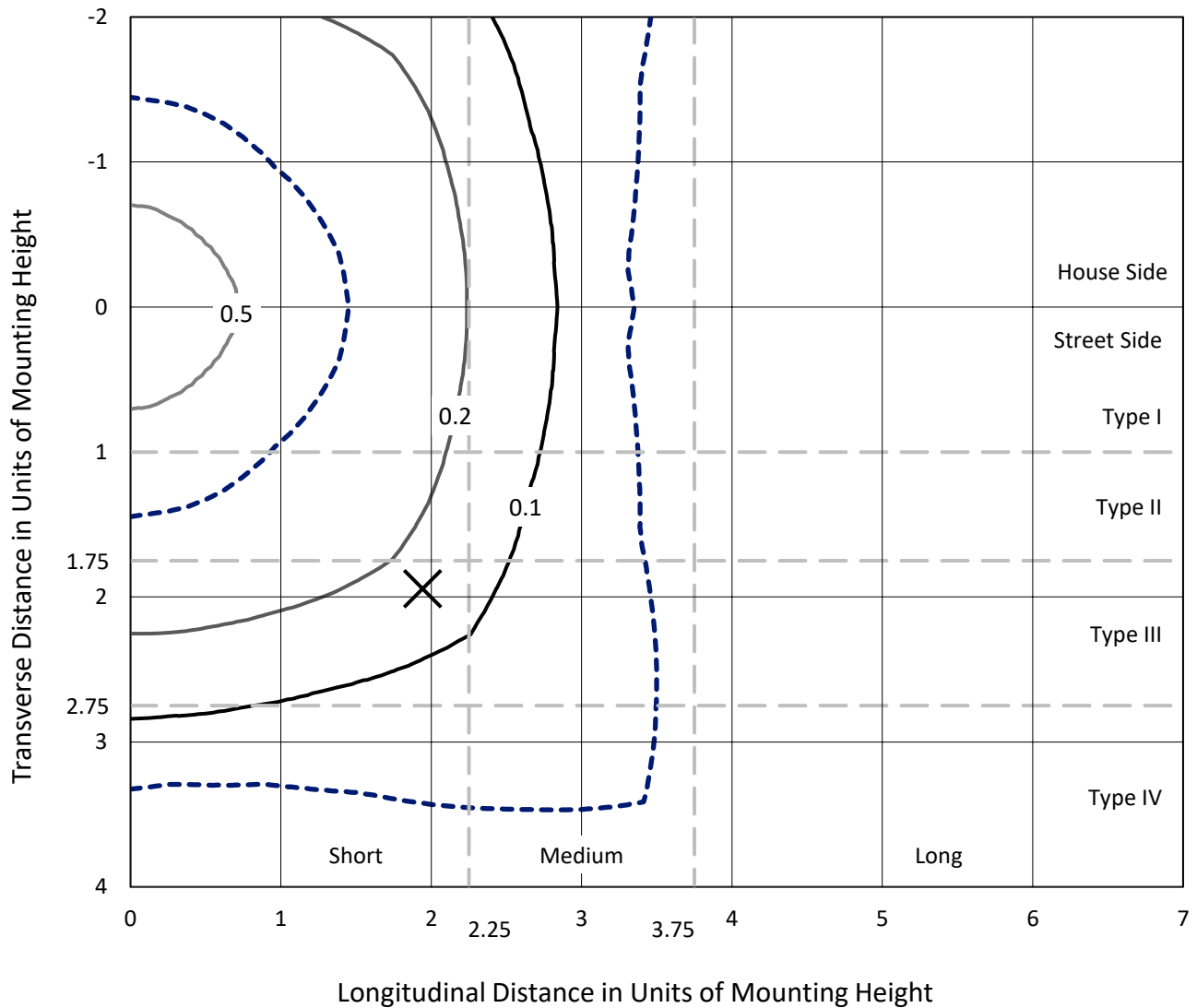
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

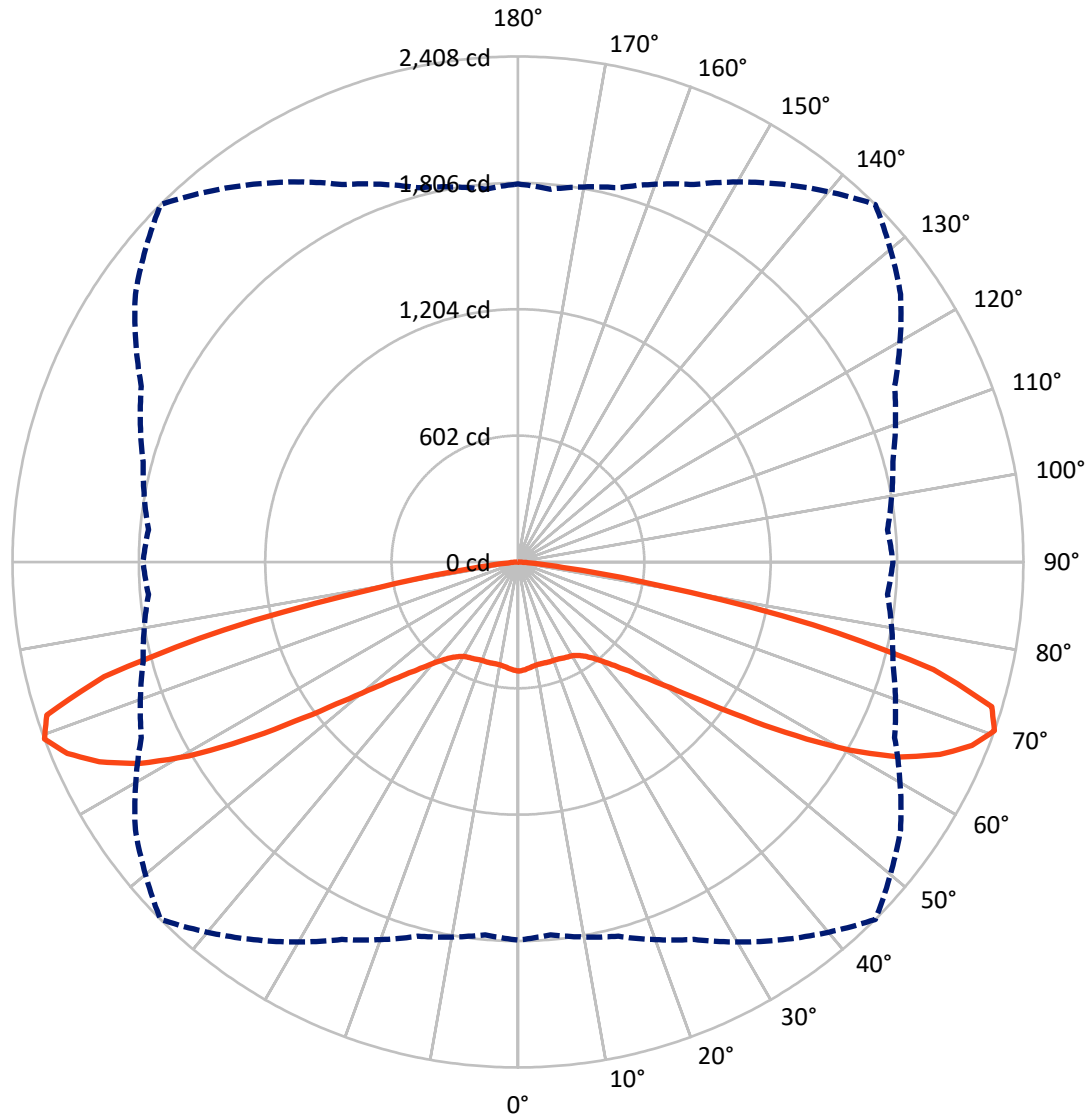
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	2850.5	0.0	2850.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2850.5	0.0	2850.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5701.0	0.0	5701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.8
10°-20°	142.0	2.5
20°-30°	236.4	4.1
30°-40°	357.5	6.3
40°-50°	594.1	10.4
50°-60°	1121.0	19.7
60°-70°	1892.8	33.2
70°-80°	1243.8	21.8
80°-90°	65.2	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°	5701.0	100.0
0°-180°	5701.0	100.0

Coefficient of Utilization



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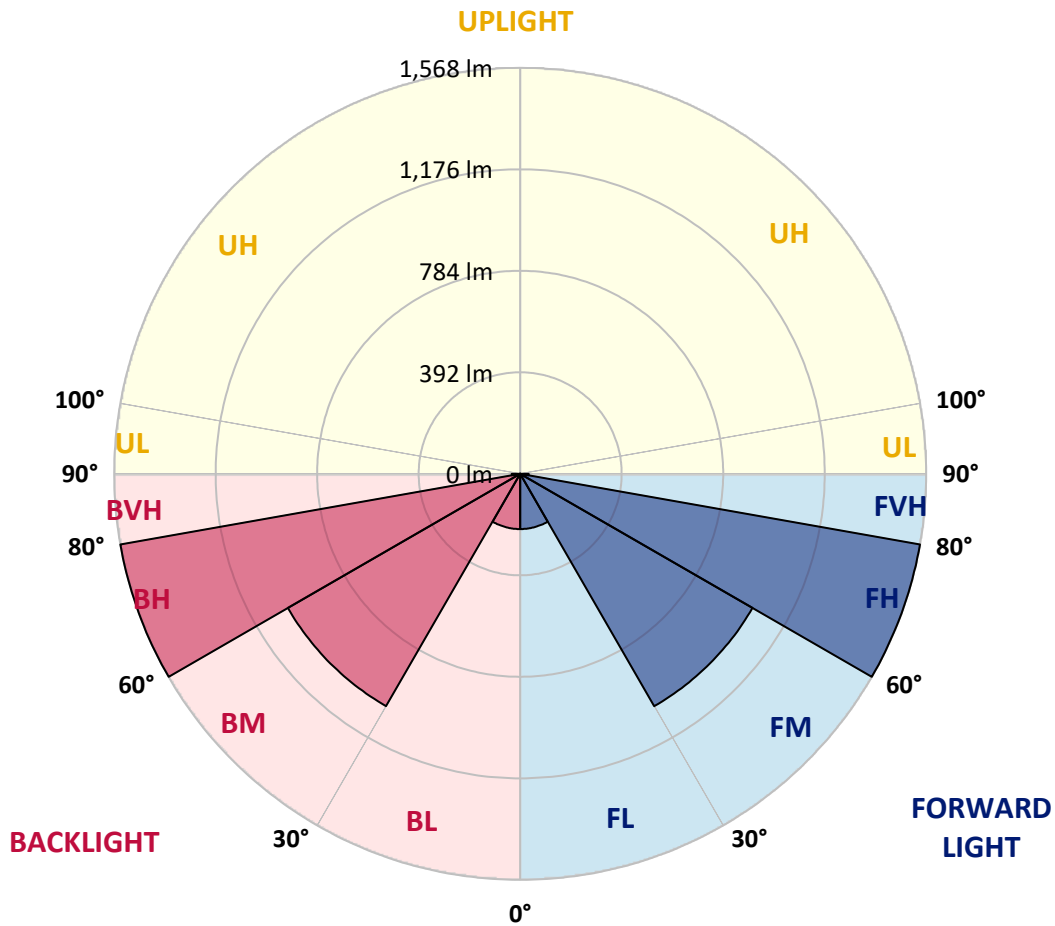
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.4	3.7			
FM (30°-60°)	1036.3	18.2			
FH (60°-80°)	1568.3	27.5			G1/1800
FVH (80°-90°)	32.6	0.6			G1/100
BL (0°-30°)	213.4	3.7	B1/500		
BM (30°-60°)	1036.3	18.2	B2/2500		
BH (60°-80°)	1568.3	27.5	B3/2500		G1/1800
BVH (80°-90°)	32.6	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°	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
2.5°	516.8	518.3	517.7	516.5	516.5	515.6	516.5	517.1	518.0	518.6	518.3
5°	510.0	511.2	510.9	510.0	510.3	509.4	510.0	510.9	511.5	511.7	511.7
7.5°	504.0	505.2	504.6	503.2	503.2	502.3	502.6	503.5	504.3	504.6	504.6
10°	502.6	503.7	502.0	499.6	498.7	497.5	497.8	498.7	500.5	501.4	501.4
12.5°	503.2	504.0	502.3	498.7	497.8	496.6	496.6	497.5	499.9	501.1	501.4
15°	504.9	505.8	503.2	499.3	498.4	497.5	497.2	498.4	501.1	503.2	503.5
17.5°	508.2	509.1	504.9	499.6	498.4	498.7	498.4	499.3	503.5	507.3	507.3
20°	511.2	511.7	506.1	499.6	498.4	498.7	498.4	500.2	505.5	510.9	511.2
22.5°	512.0	512.6	507.3	501.7	500.8	501.1	500.8	502.6	507.6	512.9	512.9
25°	512.3	513.2	509.1	504.6	506.1	506.7	506.1	506.4	510.3	515.0	514.7
27.5°	516.8	518.0	514.1	510.3	511.2	510.9	511.7	512.6	515.6	520.3	519.2
30°	526.0	526.9	523.6	519.7	519.2	517.1	519.7	522.7	526.0	530.1	529.2
32.5°	541.1	542.9	538.7	534.6	531.9	530.7	532.8	537.8	542.3	546.7	544.9
35°	566.3	567.5	563.6	555.9	551.2	551.2	552.9	559.5	566.6	572.2	570.1
37.5°	601.8	603.3	596.5	587.3	580.2	580.2	582.6	589.4	600.1	608.1	605.1
40°	645.1	647.2	638.6	629.1	622.3	621.1	624.1	631.8	641.8	651.9	648.6
42.5°	697.2	699.6	688.4	680.1	674.7	674.7	676.2	683.3	692.5	705.0	704.1
45°	763.9	768.1	752.7	744.4	739.3	740.5	741.4	747.6	755.9	770.1	769.5
47.5°	843.3	847.5	831.2	822.6	821.7	827.3	823.8	828.2	832.7	849.0	844.2
50°	933.4	940.5	929.3	928.7	930.5	940.8	932.5	934.9	929.9	940.2	934.0
52.5°	1043.6	1054.0	1051.9	1055.5	1075.4	1096.7	1077.7	1069.4	1050.5	1053.7	1042.8
55°	1177.3	1193.0	1196.0	1217.3	1262.3	1305.9	1265.6	1232.1	1191.8	1184.4	1172.8
57.5°	1329.3	1341.7	1356.0	1399.5	1483.7	1561.0	1483.7	1409.6	1346.2	1331.1	1320.4
60°	1492.9	1508.3	1521.9	1586.2	1711.3	1820.0	1708.9	1591.3	1507.4	1486.9	1469.2
62.5°	1668.6	1688.4	1697.9	1769.3	1915.1	2044.9	1917.2	1774.7	1681.6	1659.7	1641.9
65°	1837.2	1853.5	1864.2	1940.3	2079.6	2209.7	2089.1	1948.6	1852.9	1824.2	1809.9
67.5°	1915.7	1924.6	1950.7	2036.9	2183.9	2332.4	2208.8	2046.1	1939.1	1888.8	1889.4
70°	1800.8	1782.7	1845.5	1983.6	2196.3	2407.6	2224.8	1979.4	1848.5	1766.7	1786.2
72.5°	1391.5	1360.4	1469.5	1705.6	2054.1	2359.6	2068.3	1719.0	1537.3	1371.4	1412.6
75°	757.1	721.8	872.4	1171.1	1638.1	2045.2	1675.7	1204.6	971.3	751.5	800.4
77.5°	213.6	200.3	321.8	566.6	985.3	1436.0	1023.2	579.0	381.7	226.4	251.6
80°	65.5	63.4	85.9	170.7	418.4	687.8	402.1	172.8	109.3	69.0	72.9
82.5°	38.8	35.6	42.7	62.2	106.7	216.0	103.7	64.9	52.2	35.0	37.9
85°	22.2	20.7	25.2	30.2	35.9	45.9	29.9	30.8	27.9	18.7	19.6
87.5°	9.2	8.3	9.8	9.5	8.3	10.7	8.0	9.5	11.3	7.4	6.8
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)