

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: P959778

Luminaire Tested: **NAV-SB1B-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5840.5 lumens
Efficiency: N/A
Efficacy: 146.7 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

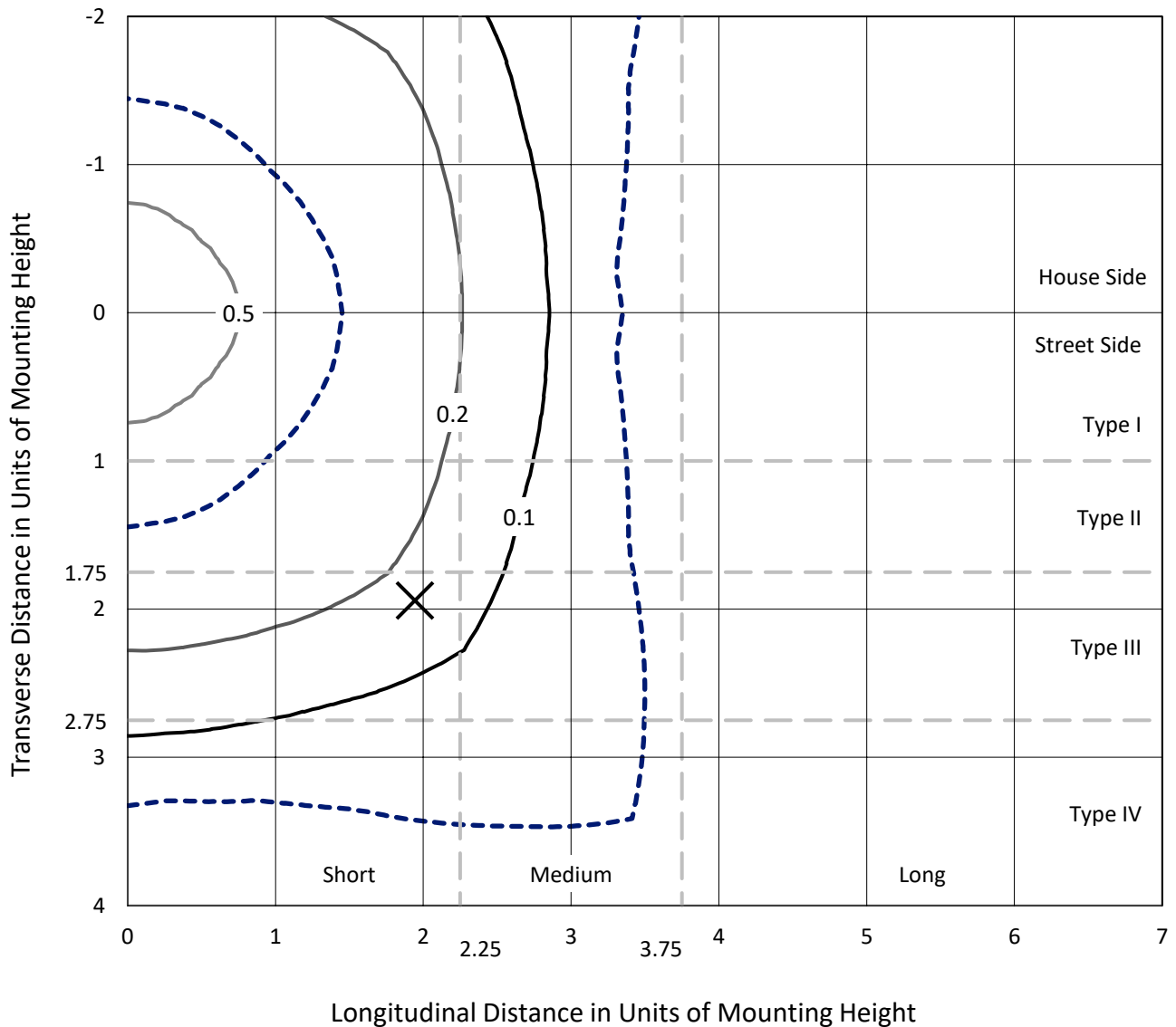
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

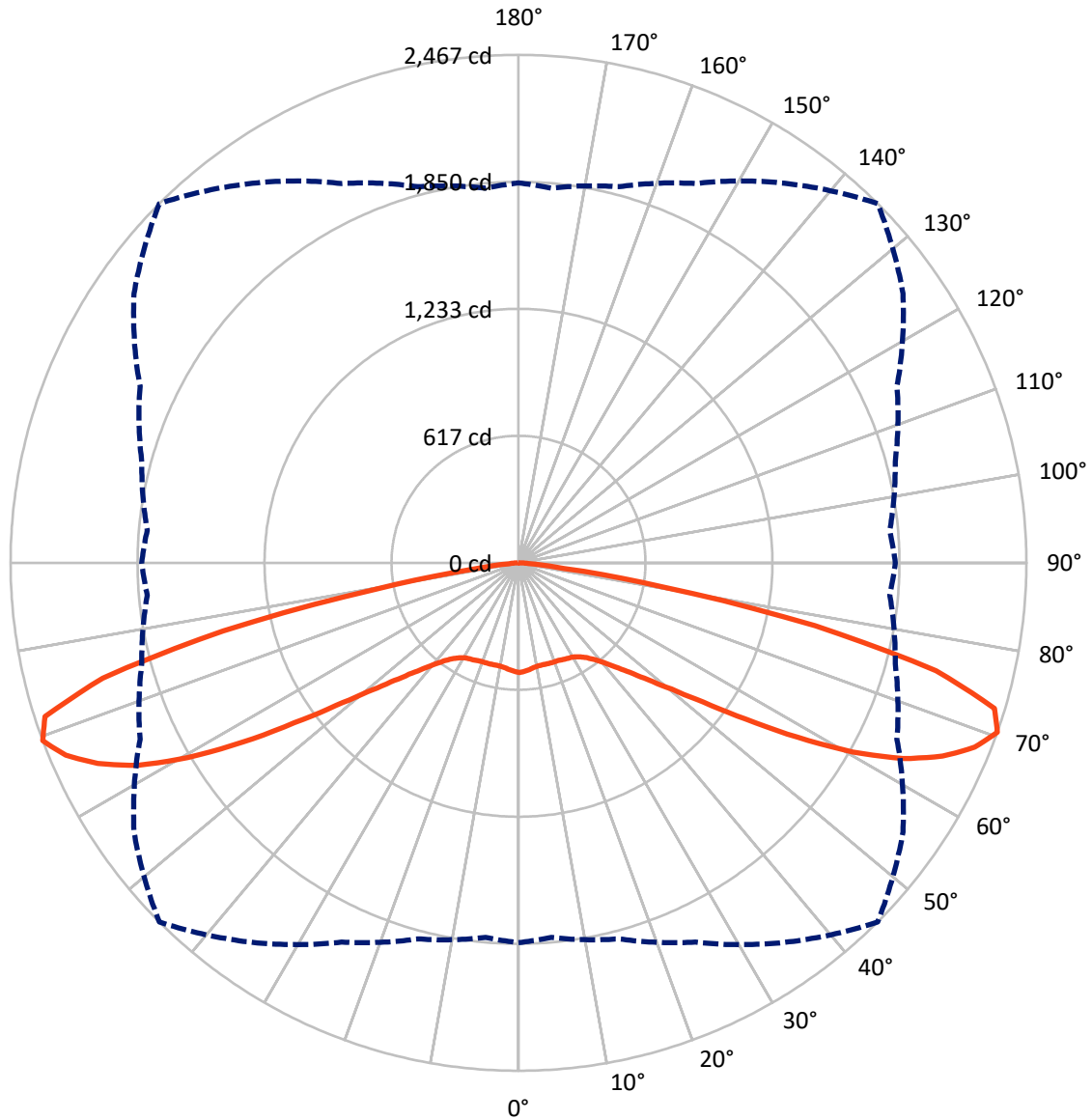
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	2920.2	0.0	2920.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2920.2	0.0	2920.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5840.5	0.0	5840.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	0.8
10°-20°	145.5	2.5
20°-30°	242.2	4.1
30°-40°	366.2	6.3
40°-50°	608.6	10.4
50°-60°	1148.4	19.7
60°-70°	1939.1	33.2
70°-80°	1274.2	21.8
80°-90°	66.8	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°	5840.5	100.0
0°-180°	5840.5	100.0

Coefficient of Utilization



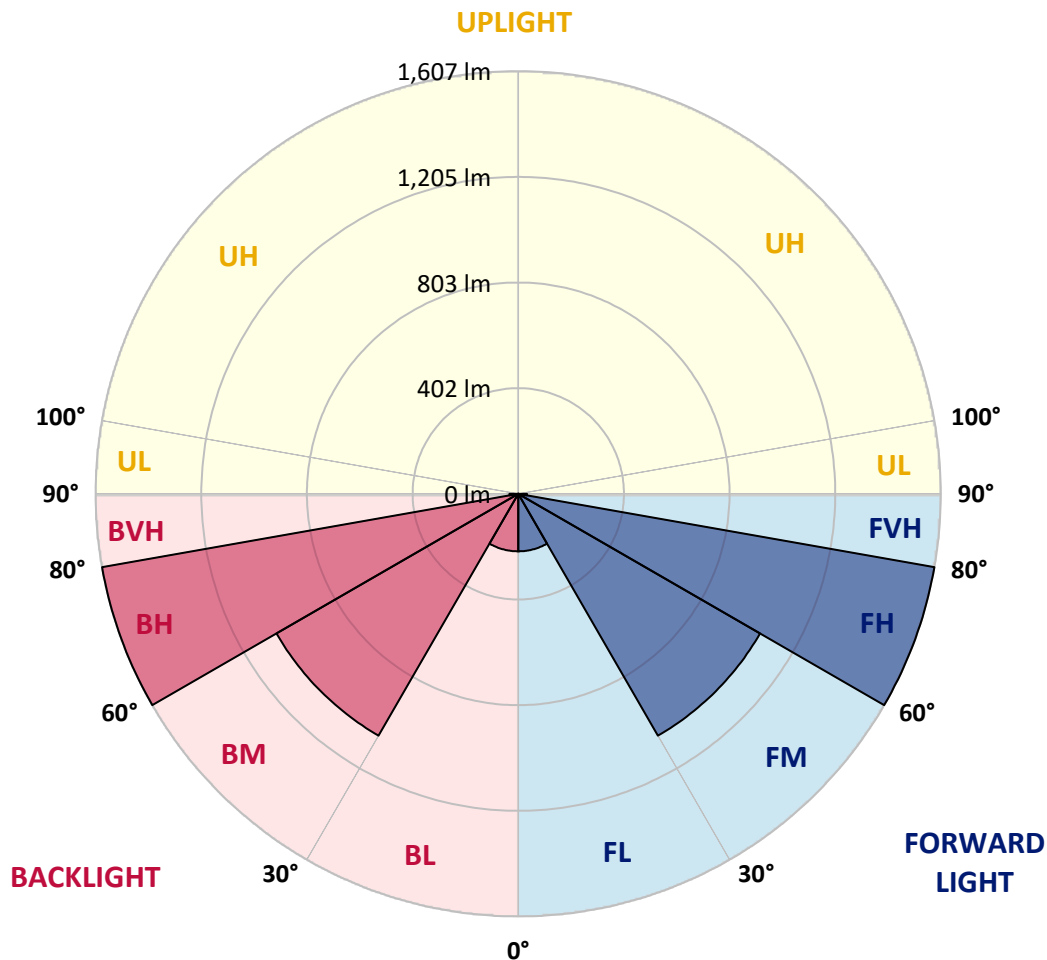
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.6	3.7			
FM (30°-60°)	1061.6	18.2			
FH (60°-80°)	1606.6	27.5			G1/1800
FVH (80°-90°)	33.4	0.6			G1/100
BL (0°-30°)	218.6	3.7	B1/500		
BM (30°-60°)	1061.6	18.2	B2/2500		
BH (60°-80°)	1606.6	27.5	B3/2500		G1/1800
BVH (80°-90°)	33.4	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°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	529.4	530.9	530.3	529.1	529.1	528.2	529.1	529.7	530.6	531.3	530.9
5°	522.4	523.7	523.4	522.4	522.8	521.8	522.4	523.4	524.0	524.3	524.3
7.5°	516.4	517.6	517.0	515.5	515.5	514.6	514.9	515.8	516.7	517.0	517.0
10°	514.9	516.1	514.2	511.8	510.9	509.7	510.0	510.9	512.7	513.6	513.6
12.5°	515.5	516.4	514.6	510.9	510.0	508.8	508.8	509.7	512.1	513.3	513.6
15°	517.3	518.2	515.5	511.5	510.7	509.7	509.4	510.7	513.3	515.5	515.8
17.5°	520.6	521.5	517.3	511.8	510.7	510.9	510.7	511.5	515.8	519.7	519.7
20°	523.7	524.3	518.5	511.8	510.7	510.9	510.7	512.4	517.9	523.4	523.7
22.5°	524.6	525.2	519.7	513.9	513.0	513.3	513.0	514.9	520.0	525.5	525.5
25°	524.9	525.8	521.5	517.0	518.5	519.1	518.5	518.8	522.8	527.6	527.3
27.5°	529.4	530.6	526.6	522.8	523.7	523.4	524.3	525.2	528.2	533.1	531.9
30°	538.8	539.8	536.4	532.5	531.9	529.7	532.5	535.5	538.8	543.0	542.2
32.5°	554.3	556.2	551.9	547.7	544.9	543.7	545.8	550.9	555.6	560.1	558.3
35°	580.2	581.4	577.4	569.5	564.7	564.7	566.4	573.2	580.5	586.2	584.0
37.5°	616.5	618.1	611.1	601.7	594.4	594.4	596.9	603.8	614.7	622.9	619.9
40°	660.9	663.0	654.2	644.5	637.4	636.3	639.3	647.2	657.5	667.9	664.5
42.5°	714.3	716.7	705.2	696.7	691.3	691.3	692.8	700.1	709.4	722.2	721.3
45°	782.6	786.9	771.1	762.6	757.4	758.6	759.5	765.9	774.4	788.9	788.3
47.5°	864.0	868.2	851.5	842.8	841.8	847.6	843.9	848.5	853.0	869.7	864.9
50°	956.2	963.5	952.0	951.4	953.2	963.8	955.3	957.8	952.6	963.2	956.8
52.5°	1069.2	1079.8	1077.7	1081.3	1101.7	1123.5	1104.1	1095.6	1076.1	1079.5	1068.3
55°	1206.1	1222.2	1225.2	1247.1	1293.2	1337.8	1296.5	1262.3	1221.0	1213.4	1201.5
57.5°	1361.8	1374.5	1389.2	1433.8	1520.0	1599.2	1520.0	1444.1	1379.1	1363.7	1352.7
60°	1529.4	1545.2	1559.1	1625.0	1753.2	1864.6	1750.7	1630.2	1544.3	1523.4	1505.1
62.5°	1709.4	1729.8	1739.4	1812.6	1962.0	2094.9	1964.1	1818.0	1722.7	1700.3	1682.1
65°	1882.1	1898.8	1909.8	1987.8	2130.5	2263.7	2140.2	1996.3	1898.2	1868.8	1854.2
67.5°	1962.6	1971.7	1998.4	2086.7	2237.3	2389.4	2262.8	2096.1	1986.6	1935.0	1935.6
70°	1844.8	1826.2	1890.6	2032.1	2250.1	2466.6	2279.2	2027.9	1893.7	1809.8	1829.9
72.5°	1425.6	1393.7	1505.4	1747.3	2104.3	2417.4	2118.9	1761.1	1574.9	1405.0	1447.1
75°	775.6	739.5	893.7	1199.8	1678.1	2095.2	1716.7	1234.0	995.1	769.9	819.9
77.5°	218.8	205.2	329.6	580.5	1009.4	1471.1	1048.3	593.2	391.0	232.0	257.7
80°	67.1	65.0	88.0	174.9	428.7	704.6	411.9	177.0	112.0	70.7	74.7
82.5°	39.8	36.4	43.7	63.8	109.3	221.3	106.3	66.5	53.4	35.8	38.8
85°	22.8	21.2	25.8	31.0	36.7	47.0	30.6	31.6	28.5	19.2	20.0
87.5°	9.4	8.5	10.0	9.7	8.5	11.0	8.2	9.7	11.6	7.6	7.0
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)