

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: P959840

Luminaire Tested: **NAV-SB1B-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959840
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-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

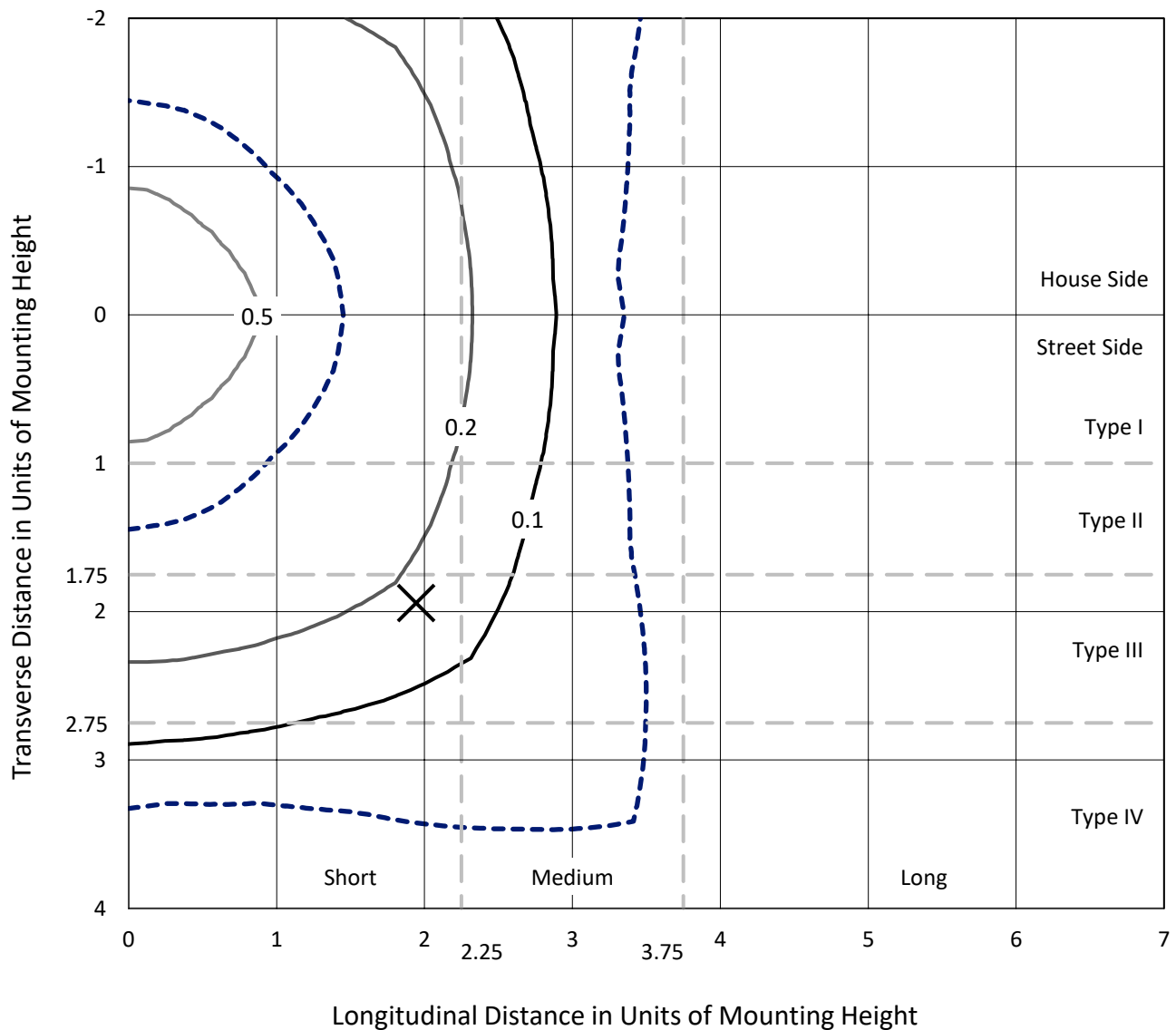
Lumens per Lamp: N/A
Luminaire Lumens: 6178.7 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 39.8
Input Voltage (V): 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



Iso-Footcandle Lines of Horizontal Illumination

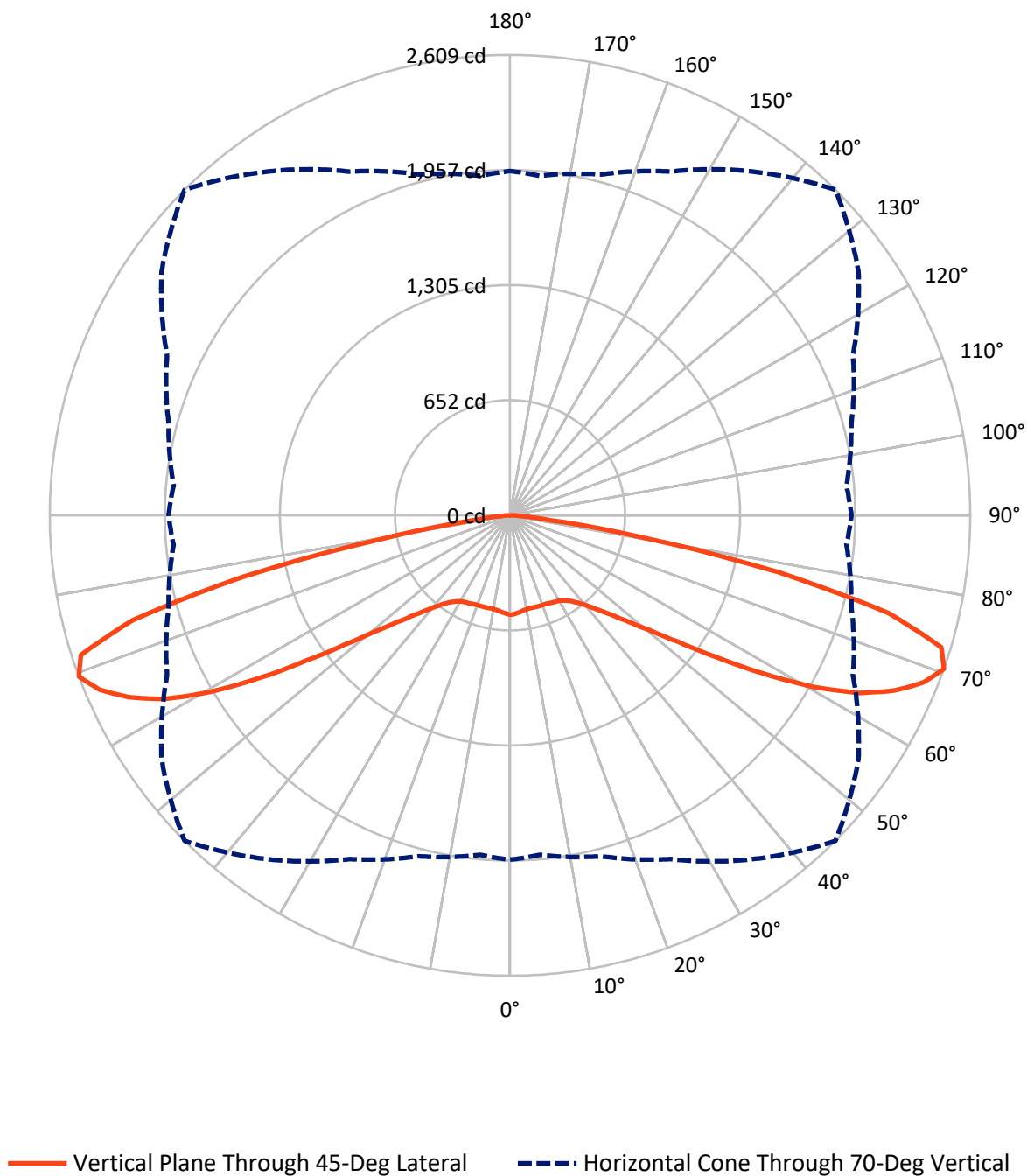
✕ Max cd
 --- 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3089.4	0.0	3089.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3089.4	0.0	3089.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6178.7	0.0	6178.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	0.8
10°-20°	153.9	2.5
20°-30°	256.2	4.1
30°-40°	387.4	6.3
40°-50°	643.8	10.4
50°-60°	1214.9	19.7
60°-70°	2051.4	33.2
70°-80°	1348.0	21.8
80°-90°	70.6	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°	6178.7	100.0
0°-180°	6178.7	100.0

Coefficient of Utilization



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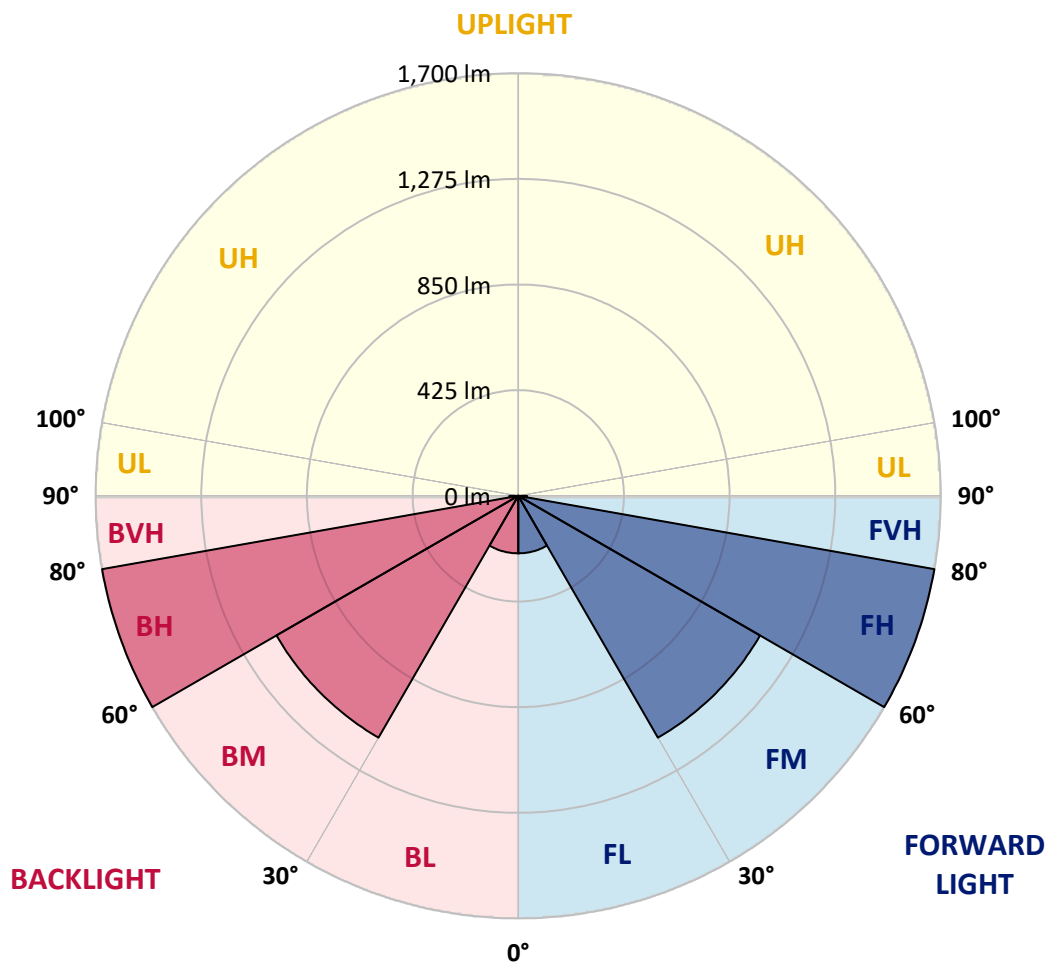
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.3	3.7			
FM	(30°-60°)	1123.1	18.2			
FH	(60°-80°)	1699.7	27.5			G1/1800
FVH	(80°-90°)	35.3	0.6			G1/100
BL	(0°-30°)	231.3	3.7	B1/500		
BM	(30°-60°)	1123.1	18.2	B2/2500		
BH	(60°-80°)	1699.7	27.5	B3/2500		G1/1800
BVH	(80°-90°)	35.3	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°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	560.1	561.7	561.1	559.8	559.8	558.8	559.8	560.4	561.4	562.0	561.7
5°	552.7	554.0	553.7	552.7	553.0	552.1	552.7	553.7	554.3	554.6	554.6
7.5°	546.3	547.6	546.9	545.3	545.3	544.4	544.7	545.6	546.6	546.9	546.9
10°	544.7	545.9	544.1	541.5	540.5	539.3	539.6	540.5	542.4	543.4	543.4
12.5°	545.3	546.3	544.4	540.5	539.6	538.2	538.2	539.3	541.8	543.0	543.4
15°	547.2	548.2	545.3	541.1	540.2	539.3	538.8	540.2	543.0	545.3	545.6
17.5°	550.7	551.8	547.2	541.5	540.2	540.5	540.2	541.1	545.6	549.8	549.8
20°	554.0	554.6	548.5	541.5	540.2	540.5	540.2	542.1	547.9	553.7	554.0
22.5°	554.9	555.6	549.8	543.7	542.7	543.0	542.7	544.7	550.1	556.0	556.0
25°	555.2	556.3	551.8	546.9	548.5	549.2	548.5	548.9	553.0	558.1	557.8
27.5°	560.1	561.4	557.2	553.0	554.0	553.7	554.6	555.6	558.8	564.0	562.6
30°	570.0	571.0	567.4	563.3	562.6	560.4	563.3	566.5	570.0	574.5	573.6
32.5°	586.4	588.3	583.8	579.3	576.5	575.2	577.4	582.9	587.7	592.6	590.6
35°	613.8	615.0	610.8	602.5	597.4	597.4	599.3	606.3	614.1	620.1	617.9
37.5°	652.3	653.8	646.5	636.5	628.8	628.8	631.4	638.8	650.4	659.0	655.8
40°	699.2	701.4	692.1	681.8	674.4	673.1	676.3	684.7	695.6	706.5	703.0
42.5°	755.6	758.2	746.0	737.1	731.2	731.2	732.9	740.6	750.5	764.0	763.0
45°	827.9	832.4	815.7	806.8	801.2	802.6	803.5	810.3	819.3	834.7	834.0
47.5°	914.0	918.5	900.9	891.5	890.5	896.7	892.8	897.6	902.4	920.1	914.9
50°	1011.7	1019.4	1007.2	1006.4	1008.4	1019.7	1010.6	1013.2	1007.8	1019.1	1012.3
52.5°	1131.1	1142.4	1140.1	1143.9	1165.4	1188.6	1168.0	1159.1	1138.5	1142.1	1130.2
55°	1275.9	1292.9	1296.2	1319.3	1368.1	1415.3	1371.7	1335.4	1291.7	1283.6	1271.1
57.5°	1440.6	1454.2	1469.5	1516.8	1608.0	1691.9	1608.0	1527.8	1459.0	1442.6	1431.0
60°	1618.0	1634.7	1649.4	1719.1	1854.6	1972.5	1852.1	1724.6	1633.7	1611.5	1592.2
62.5°	1808.4	1829.9	1840.2	1917.6	2075.6	2216.3	2077.9	1923.4	1822.6	1798.8	1779.5
65°	1991.2	2008.8	2020.4	2102.9	2253.9	2394.8	2264.1	2111.9	2008.2	1977.0	1961.6
67.5°	2076.2	2085.9	2114.2	2207.6	2366.9	2527.8	2393.9	2217.6	2101.7	2047.0	2047.6
70°	1951.6	1932.0	2000.2	2149.8	2380.4	2609.3	2411.2	2145.3	2003.4	1914.7	1935.9
72.5°	1508.1	1474.4	1592.5	1848.6	2226.2	2557.4	2241.7	1863.0	1666.1	1486.2	1530.9
75°	820.5	782.3	945.5	1269.2	1775.3	2216.6	1816.1	1305.4	1052.8	814.5	867.5
77.5°	231.5	217.1	348.8	614.1	1067.8	1556.3	1108.9	627.5	413.7	245.4	272.6
80°	70.9	68.8	93.2	185.0	453.5	745.4	435.8	187.3	118.5	74.8	79.0
82.5°	42.0	38.5	46.2	67.4	115.6	234.1	112.4	70.3	56.5	37.9	41.1
85°	24.1	22.4	27.3	32.8	38.8	49.8	32.4	33.4	30.2	20.2	21.2
87.5°	9.9	9.0	10.6	10.2	9.0	11.6	8.7	10.2	12.2	8.0	7.4
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)