

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: P961946

Luminaire Tested: **NAV-SB2B-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12788.9 lumens
Efficiency: N/A
Efficacy: 173.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 73.9
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



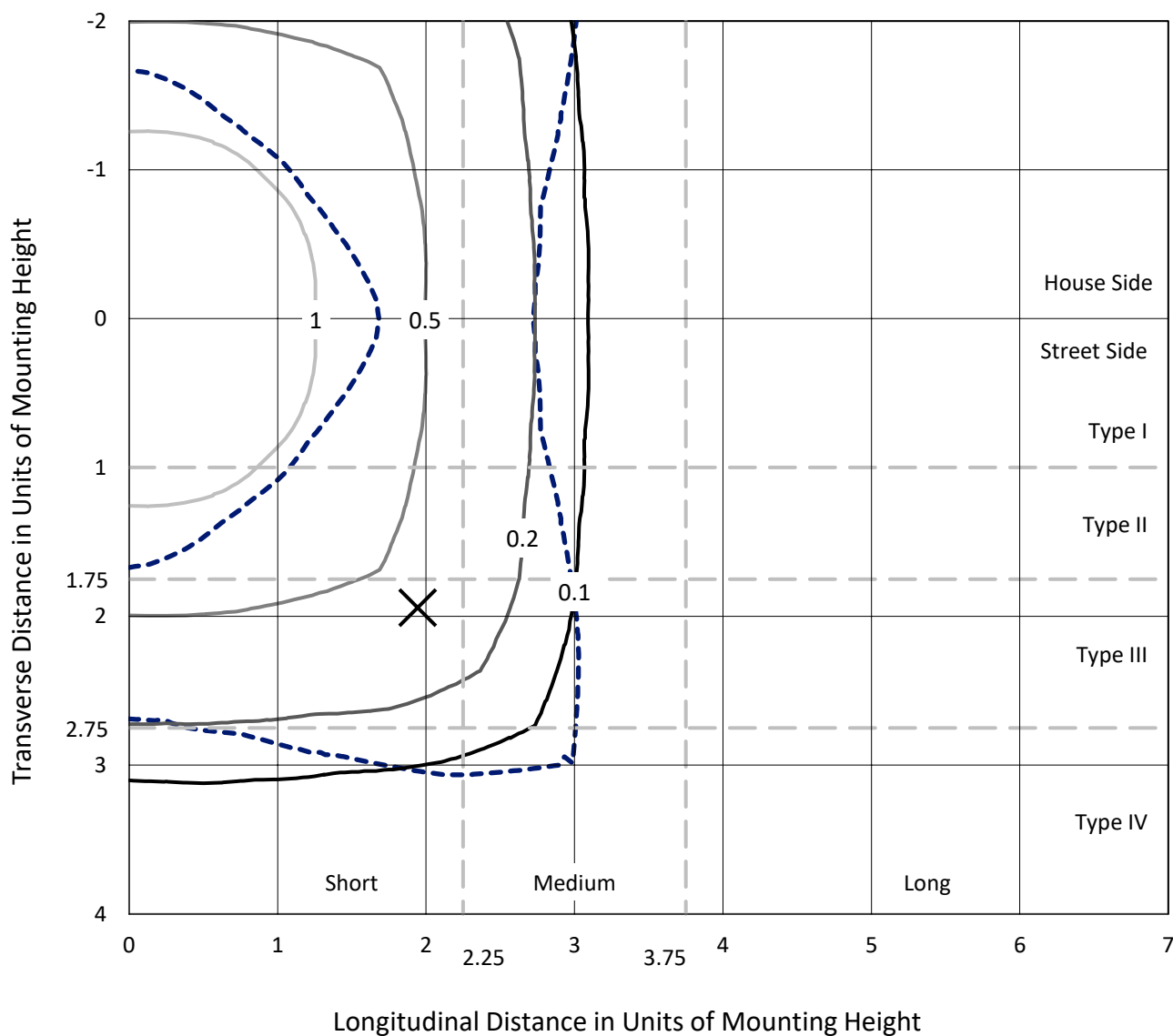
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

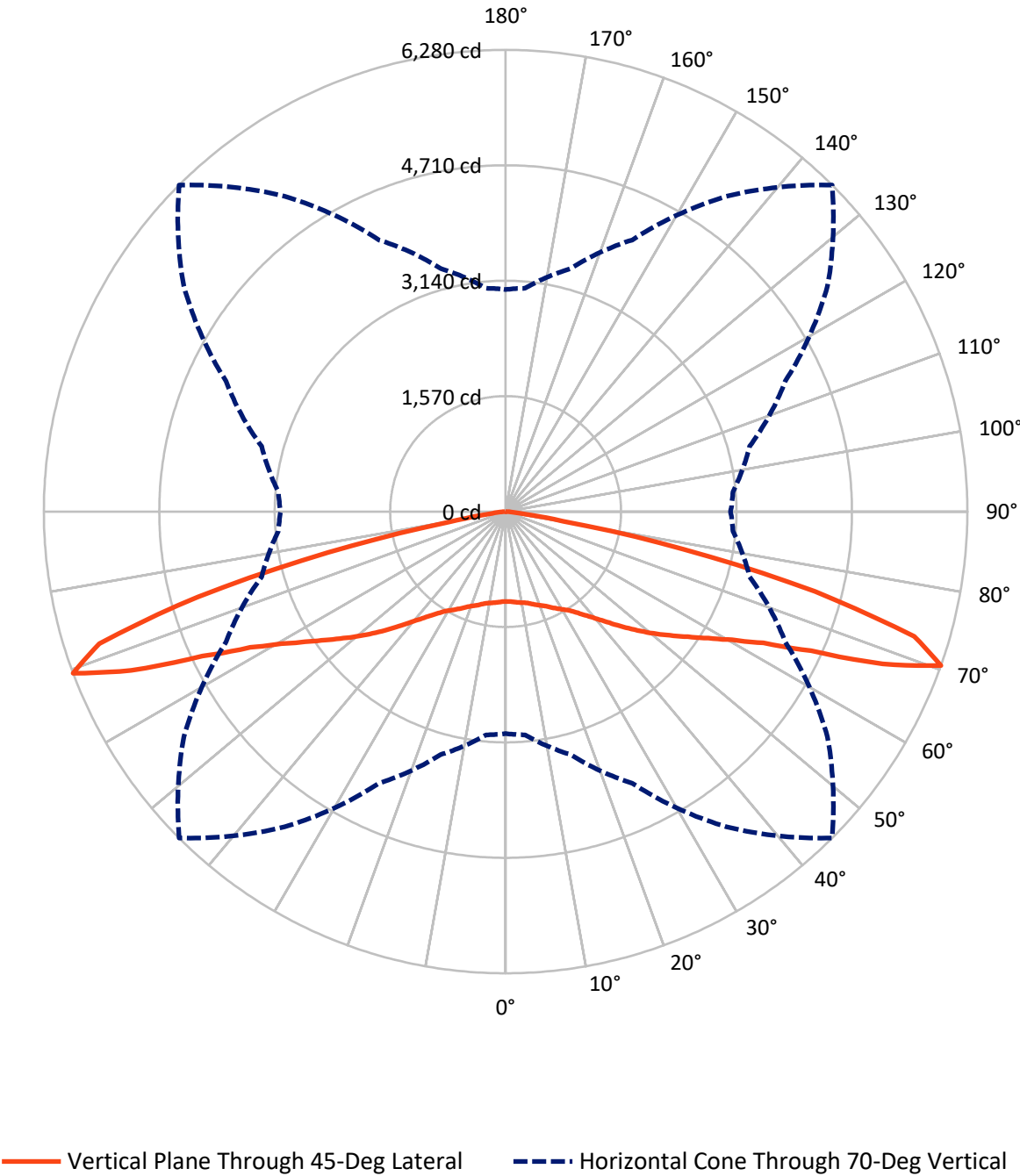


Based on 25 foot mounting height. Maximum calculated value = 2 fc

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	6394.5	0.0	6394.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6394.5	0.0	6394.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12788.9	0.0	12788.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	0.9
10°-20°	369.0	2.9
20°-30°	659.5	5.2
30°-40°	1069.1	8.4
40°-50°	1741.4	13.6
50°-60°	2655.0	20.8
60°-70°	3949.8	30.9
70°-80°	2152.8	16.8
80°-90°	73.3	0.6
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°	12788.9	100.0
0°-180°	12788.9	100.0

Coefficient of Utilization



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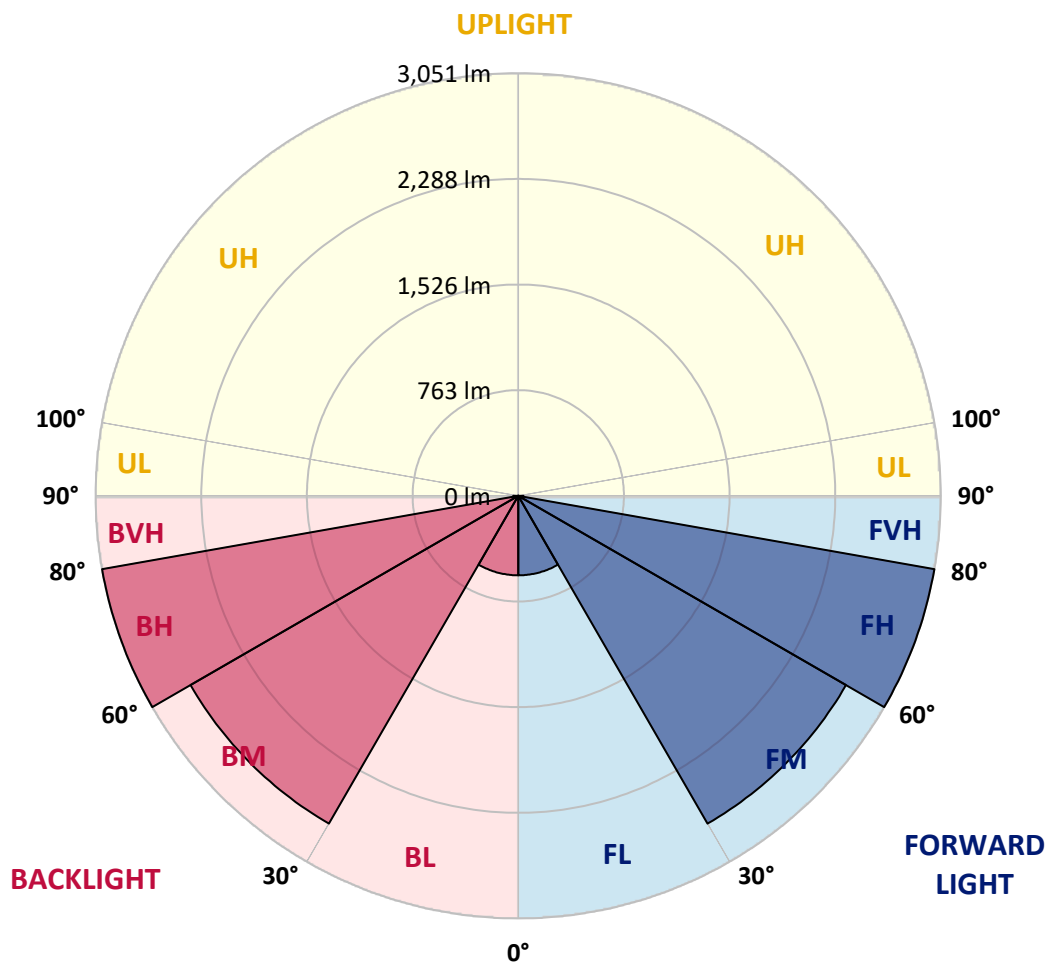
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.8	4.5			
FM	(30°-60°)	2732.7	21.4			
FH	(60°-80°)	3051.3	23.9			G2/5000
FVH	(80°-90°)	36.7	0.3			G1/100
BL	(0°-30°)	573.8	4.5	B2/1000		
BM	(30°-60°)	2732.7	21.4	B3/5000		
BH	(60°-80°)	3051.3	23.9	B4/5000		G2/5000
BVH	(80°-90°)	36.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1230.8	1232.2	1229.6	1228.3	1226.9	1225.1	1225.7	1228.9	1231.4	1230.8	1231.4
5°	1241.1	1242.4	1240.5	1239.8	1237.3	1236.6	1236.6	1239.8	1241.8	1240.5	1241.1
7.5°	1252.7	1254.6	1251.3	1250.7	1249.5	1248.1	1247.5	1250.7	1252.7	1252.7	1252.7
10°	1263.6	1265.5	1262.9	1261.0	1259.7	1259.7	1258.4	1261.0	1264.2	1263.6	1263.6
12.5°	1275.1	1276.4	1273.9	1272.5	1272.5	1274.5	1272.5	1273.9	1276.4	1275.1	1274.5
15°	1289.2	1289.9	1289.2	1291.2	1294.4	1300.8	1295.0	1293.8	1295.0	1291.8	1291.8
17.5°	1308.5	1309.8	1312.4	1316.8	1321.3	1332.9	1322.7	1319.4	1319.4	1313.0	1313.0
20°	1332.3	1334.2	1338.0	1345.7	1351.6	1362.4	1352.2	1347.7	1345.7	1337.4	1337.4
22.5°	1357.3	1360.5	1366.3	1376.6	1386.8	1397.1	1386.8	1379.1	1373.4	1362.4	1361.8
25°	1386.2	1390.1	1399.0	1415.7	1429.9	1444.6	1432.4	1417.1	1405.5	1390.1	1389.4
27.5°	1427.3	1431.8	1442.7	1463.3	1481.2	1494.0	1482.6	1462.6	1446.6	1427.9	1427.3
30°	1485.1	1489.5	1502.4	1524.3	1536.5	1544.8	1537.1	1521.7	1502.4	1481.2	1481.2
32.5°	1559.5	1565.4	1579.4	1600.0	1602.6	1603.8	1601.3	1593.6	1579.4	1553.8	1554.4
35°	1653.9	1660.4	1676.4	1693.1	1690.5	1693.1	1689.3	1686.6	1676.4	1646.9	1646.9
37.5°	1769.6	1777.2	1794.0	1806.8	1800.3	1797.1	1797.7	1798.4	1792.6	1759.9	1759.9
40°	1903.7	1914.0	1926.2	1939.6	1928.7	1919.1	1925.6	1930.7	1925.6	1892.2	1892.2
42.5°	2041.7	2056.6	2069.4	2088.6	2079.6	2067.4	2076.4	2082.2	2071.3	2035.3	2037.9
45°	2195.2	2209.3	2226.0	2254.9	2248.4	2235.6	2248.4	2249.8	2231.1	2188.8	2193.3
47.5°	2353.8	2368.6	2393.6	2432.1	2429.6	2415.4	2432.1	2423.1	2399.3	2348.7	2345.4
50°	2504.1	2524.6	2563.1	2617.0	2622.2	2604.8	2627.3	2610.0	2570.2	2506.6	2505.3
52.5°	2645.3	2667.2	2728.1	2801.3	2819.9	2797.4	2827.7	2797.4	2737.8	2656.2	2648.5
55°	2793.6	2818.0	2890.5	2986.2	3023.4	3006.7	3035.0	2989.4	2904.6	2805.8	2792.3
57.5°	2968.2	2983.0	3069.7	3183.3	3246.3	3250.1	3263.0	3185.9	3083.2	2970.8	2955.4
60°	3157.6	3178.2	3272.6	3408.6	3508.2	3540.4	3526.8	3412.5	3293.1	3164.1	3143.5
62.5°	3400.3	3422.8	3535.8	3698.9	3856.2	3935.8	3883.2	3717.5	3569.9	3415.1	3388.1
65°	3601.3	3626.3	3830.5	4121.3	4407.7	4567.6	4435.4	4130.3	3864.6	3646.2	3610.3
67.5°	3455.6	3486.3	3806.7	4341.0	5053.0	5530.1	5077.4	4406.5	3885.8	3589.8	3545.5
70°	3020.3	3049.2	3422.8	4075.8	5234.7	6280.0	5343.8	4195.8	3435.0	3103.7	3059.4
72.5°	2005.1	2098.3	2476.4	3259.7	4674.2	5811.2	4720.4	3193.6	2297.3	2000.7	1935.8
75°	665.1	739.6	997.7	1689.9	3130.7	4346.1	2980.4	1495.4	790.4	568.9	538.0
77.5°	167.6	193.2	266.5	483.5	1248.8	2474.5	1124.2	394.8	215.0	150.3	134.2
80°	81.6	89.9	128.4	161.1	312.7	786.5	293.5	151.5	101.5	78.3	72.0
82.5°	44.9	45.6	72.6	91.1	116.2	203.6	120.7	88.6	58.4	47.6	47.6
85°	27.6	27.0	38.5	48.8	48.8	72.6	57.8	48.8	33.4	29.5	30.9
87.5°	10.9	10.9	14.1	15.4	13.5	18.7	14.8	16.1	12.8	12.2	12.8
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)