

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: P961948

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961948
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-SB2B-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12352.2 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

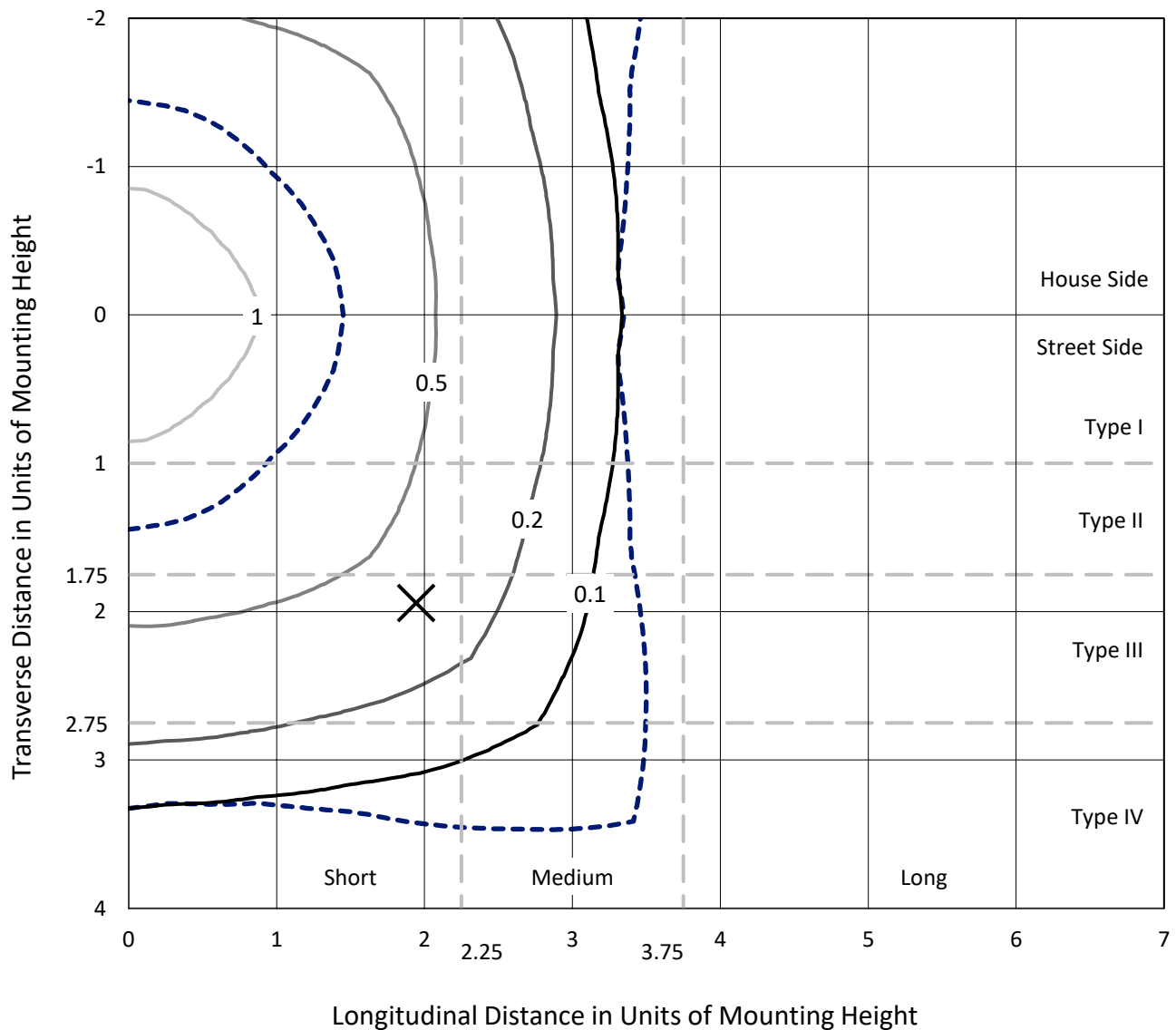
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

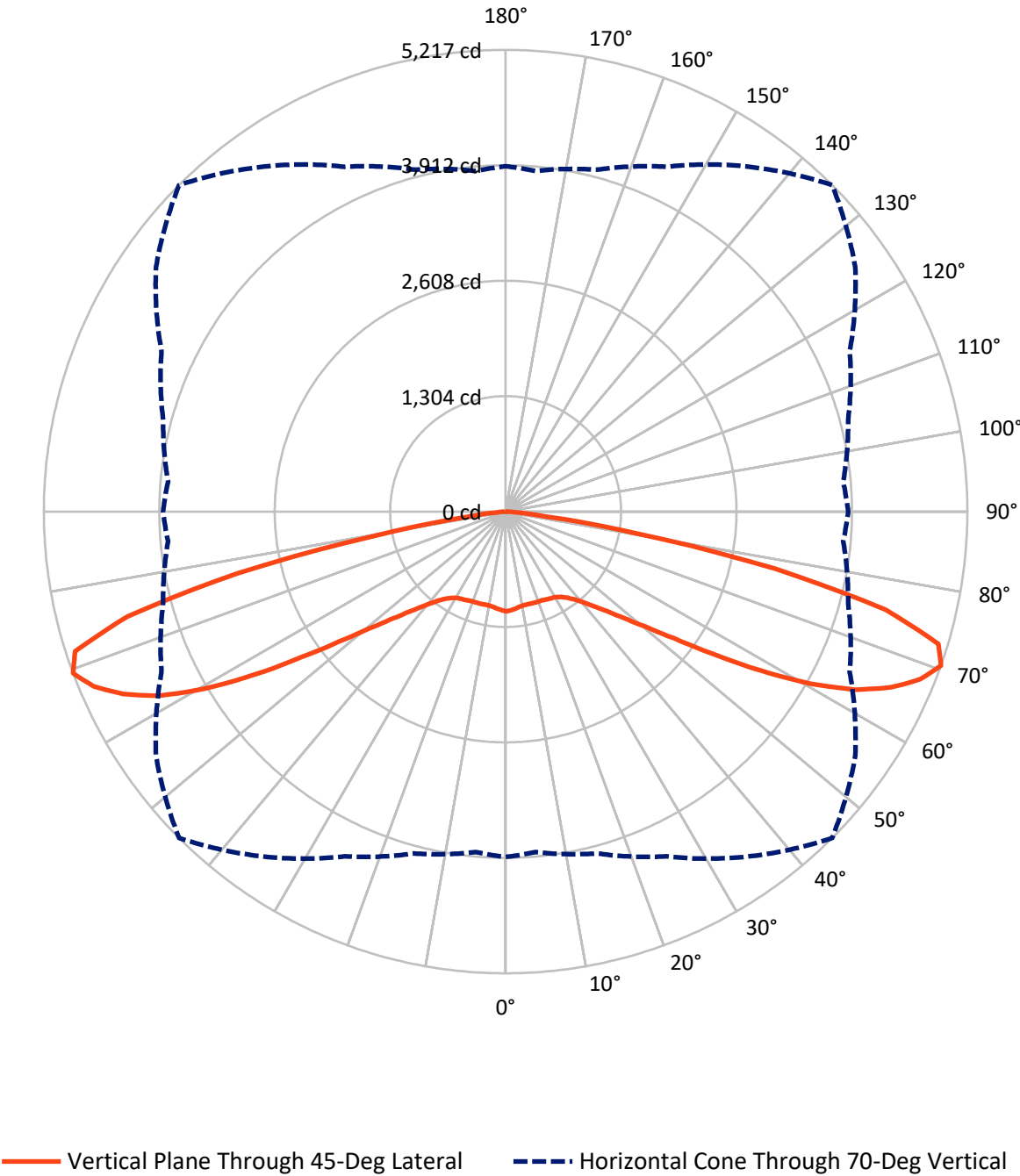
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	6176.1	0.0	6176.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6176.1	0.0	6176.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12352.2	0.0	12352.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	0.8
10°-20°	307.8	2.5
20°-30°	512.2	4.1
30°-40°	774.6	6.3
40°-50°	1287.1	10.4
50°-60°	2428.8	19.7
60°-70°	4101.1	33.2
70°-80°	2694.8	21.8
80°-90°	141.2	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°	12352.2	100.0
0°-180°	12352.2	100.0

Coefficient of Utilization



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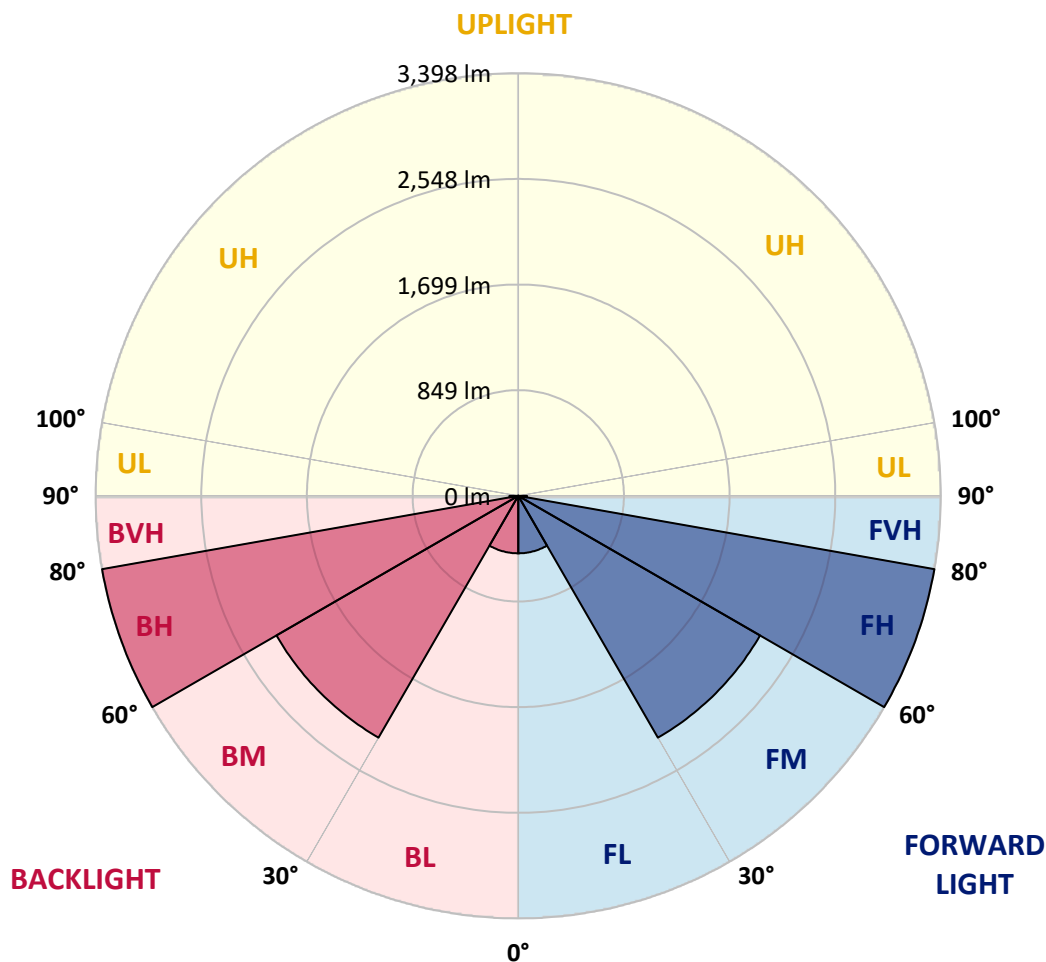
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	462.4	3.7			
FM	(30°-60°)	2245.2	18.2			
FH	(60°-80°)	3397.9	27.5			G2/5000
FVH	(80°-90°)	70.6	0.6			G1/100
BL	(0°-30°)	462.4	3.7	B1/500		
BM	(30°-60°)	2245.2	18.2	B2/2500		
BH	(60°-80°)	3397.9	27.5	B4/5000		G2/5000
BVH	(80°-90°)	70.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8
2.5°	1119.7	1122.9	1121.7	1119.1	1119.1	1117.1	1119.1	1120.3	1122.3	1123.6	1122.9
5°	1104.9	1107.5	1106.9	1104.9	1105.6	1103.6	1104.9	1106.9	1108.1	1108.8	1108.8
7.5°	1092.1	1094.7	1093.4	1090.2	1090.2	1088.2	1088.9	1090.8	1092.8	1093.4	1093.4
10°	1088.9	1091.4	1087.6	1082.5	1080.6	1078.0	1078.6	1080.6	1084.4	1086.3	1086.3
12.5°	1090.2	1092.1	1088.2	1080.6	1078.6	1076.0	1076.0	1078.0	1083.1	1085.7	1086.3
15°	1094.0	1095.9	1090.2	1081.8	1079.9	1078.0	1077.4	1079.9	1085.7	1090.2	1090.8
17.5°	1101.1	1103.0	1094.0	1082.5	1079.9	1080.6	1079.9	1081.8	1090.8	1099.2	1099.2
20°	1107.5	1108.8	1096.6	1082.5	1079.9	1080.6	1079.9	1083.7	1095.3	1106.9	1107.5
22.5°	1109.5	1110.7	1099.2	1087.0	1085.1	1085.7	1085.1	1088.9	1099.8	1111.4	1111.4
25°	1110.1	1112.0	1103.0	1093.4	1096.6	1097.9	1096.6	1097.3	1105.6	1115.8	1115.2
27.5°	1119.7	1122.3	1114.0	1105.6	1107.5	1106.9	1108.8	1110.7	1117.1	1127.4	1124.8
30°	1139.6	1141.5	1134.5	1126.2	1124.8	1120.3	1126.2	1132.5	1139.6	1148.6	1146.7
32.5°	1172.4	1176.2	1167.3	1158.2	1152.4	1149.8	1154.4	1165.3	1175.0	1184.6	1180.7
35°	1226.9	1229.5	1221.2	1204.5	1194.2	1194.2	1198.0	1212.2	1227.5	1239.7	1235.3
37.5°	1304.0	1307.2	1292.4	1272.5	1257.1	1257.1	1262.3	1277.0	1300.1	1317.4	1311.1
40°	1397.7	1402.2	1383.5	1363.0	1348.3	1345.7	1352.2	1368.8	1390.6	1412.4	1405.4
42.5°	1510.7	1515.9	1491.5	1473.4	1462.0	1462.0	1465.1	1480.5	1500.4	1527.5	1525.5
45°	1655.2	1664.2	1630.8	1612.8	1601.9	1604.4	1606.4	1619.9	1637.8	1668.7	1667.4
47.5°	1827.3	1836.2	1800.9	1782.3	1780.3	1792.5	1784.8	1794.5	1804.1	1839.5	1829.2
50°	2022.4	2037.8	2013.4	2012.2	2016.0	2038.5	2020.5	2025.6	2014.7	2037.2	2023.7
52.5°	2261.3	2283.7	2279.2	2287.0	2329.9	2376.2	2335.1	2317.1	2276.0	2283.1	2259.3
55°	2550.8	2584.8	2591.3	2637.5	2735.1	2829.4	2742.2	2669.6	2582.3	2566.2	2541.2
57.5°	2880.1	2907.1	2938.0	3032.4	3214.7	3382.3	3214.7	3054.2	2916.7	2884.0	2860.9
60°	3234.6	3268.0	3297.5	3436.8	3707.7	3943.4	3702.6	3447.8	3266.1	3221.8	3183.2
62.5°	3615.3	3658.3	3678.8	3833.6	4149.5	4430.7	4154.0	3845.2	3643.6	3596.0	3557.6
65°	3980.6	4016.0	4039.0	4204.0	4505.8	4787.7	4526.4	4222.1	4014.6	3952.4	3921.5
67.5°	4150.7	4170.0	4226.5	4413.3	4731.8	5053.5	4785.7	4433.2	4201.5	4092.3	4093.6
70°	3901.7	3862.5	3998.6	4297.8	4758.8	5216.5	4820.4	4288.8	4005.0	3827.9	3870.2
72.5°	3015.0	2947.6	3183.9	3695.5	4450.7	5112.6	4481.4	3724.4	3330.9	2971.4	3060.5
75°	1640.4	1564.0	1890.2	2537.3	3549.2	4431.4	3630.8	2609.9	2104.6	1628.2	1734.1
77.5°	462.9	434.0	697.2	1227.5	2134.8	3111.3	2217.0	1254.5	827.0	490.6	545.1
80°	141.9	137.4	186.1	369.8	906.5	1490.1	871.2	374.3	236.9	149.5	158.0
82.5°	84.2	77.1	92.5	134.8	231.1	468.0	224.7	140.6	113.0	75.7	82.2
85°	48.2	44.9	54.5	65.5	77.7	99.5	64.9	66.7	60.4	40.5	42.3
87.5°	19.9	17.9	21.2	20.5	17.9	23.1	17.3	20.5	24.4	16.1	14.8
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)