

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: P959409

Luminaire Tested: **NAV-SB1A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

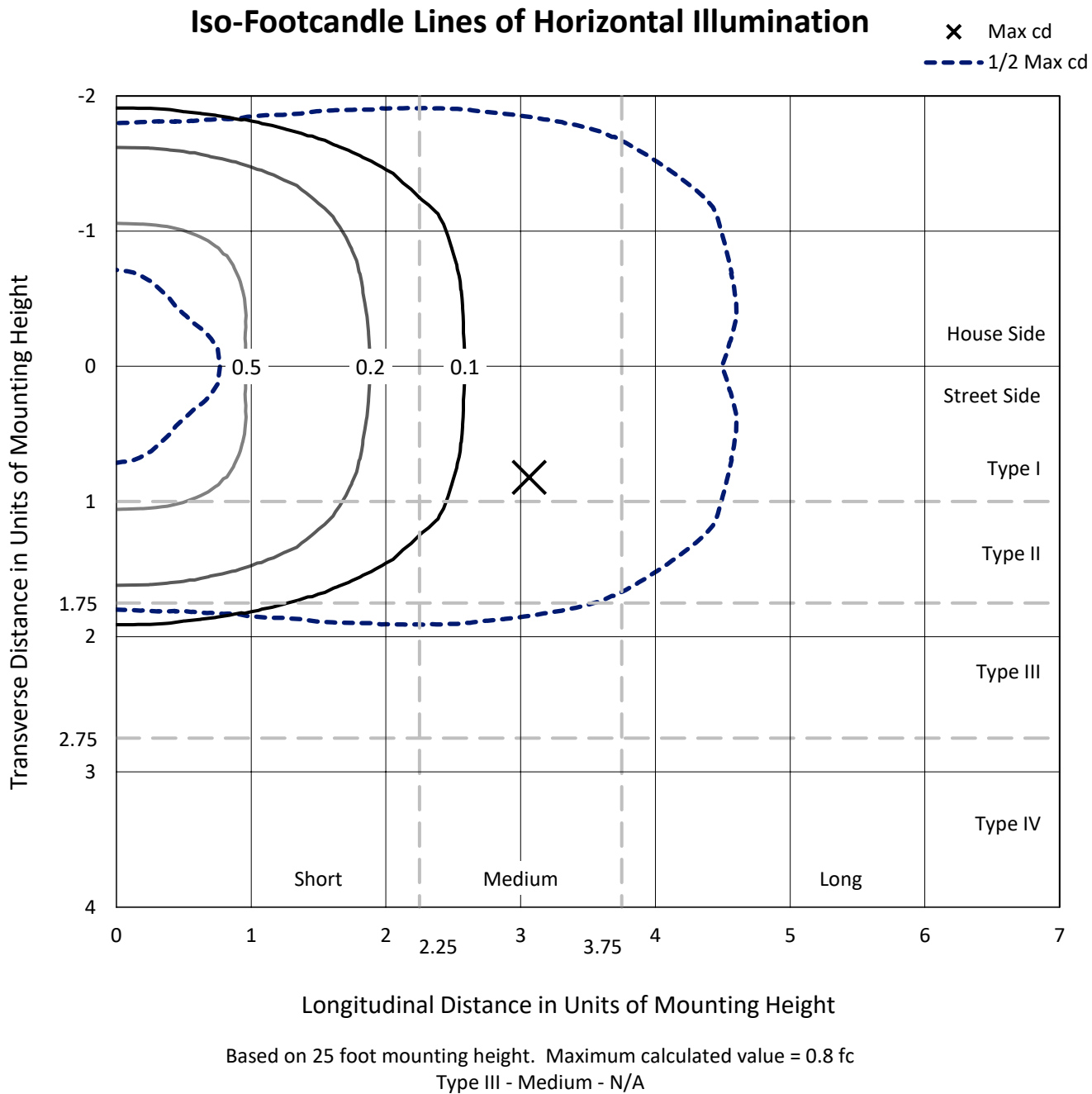
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.4 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 30.9
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

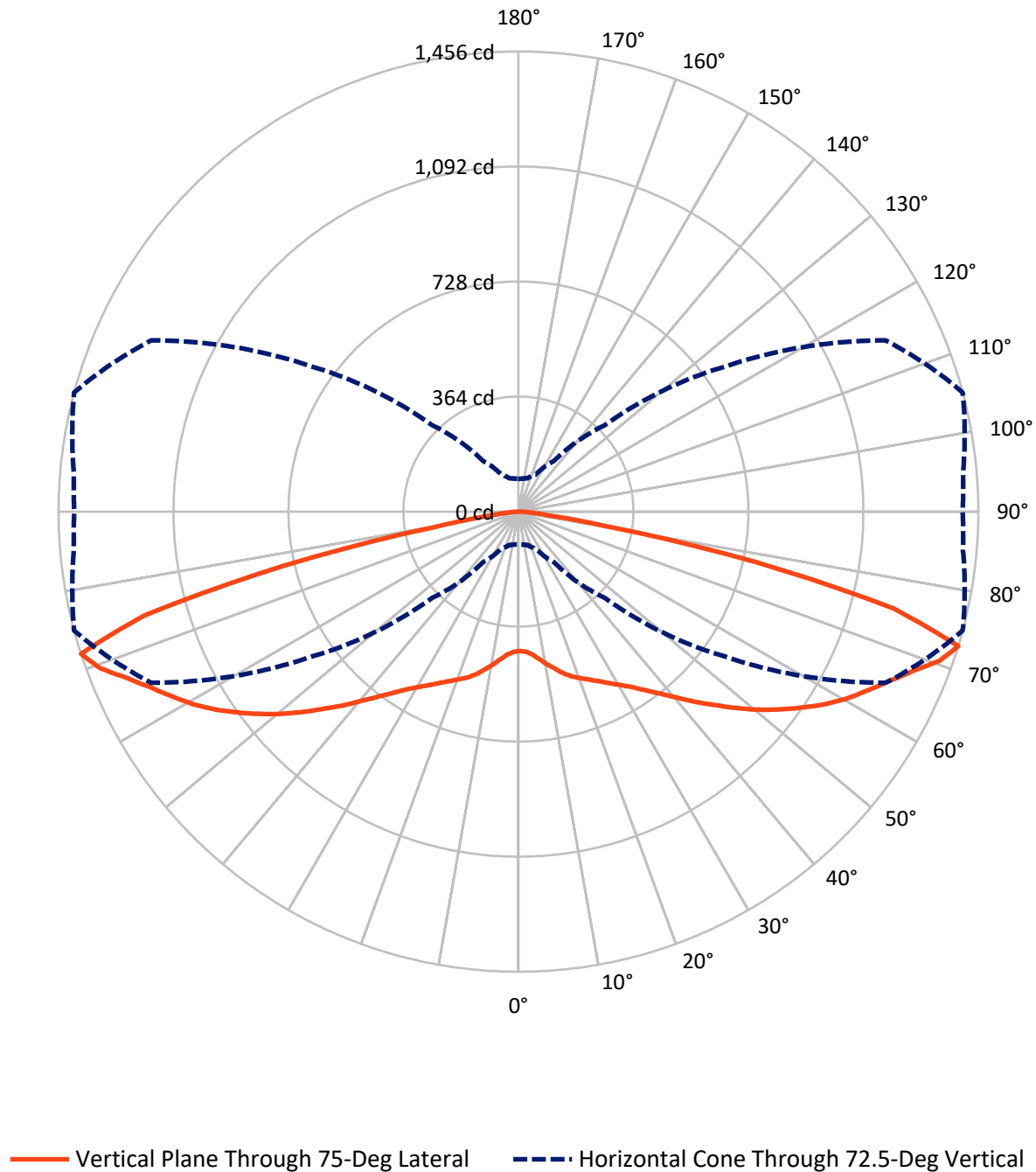


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.2	0.0	2059.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2059.2	0.0	2059.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4118.4	0.0	4118.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	142.5	3.5
20°-30°	275.4	6.7
30°-40°	465.1	11.3
40°-50°	737.5	17.9
50°-60°	987.5	24.0
60°-70°	939.7	22.8
70°-80°	490.4	11.9
80°-90°	37.1	0.9
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°	4118.4	100.0
0°-180°	4118.4	100.0

Coefficient of Utilization



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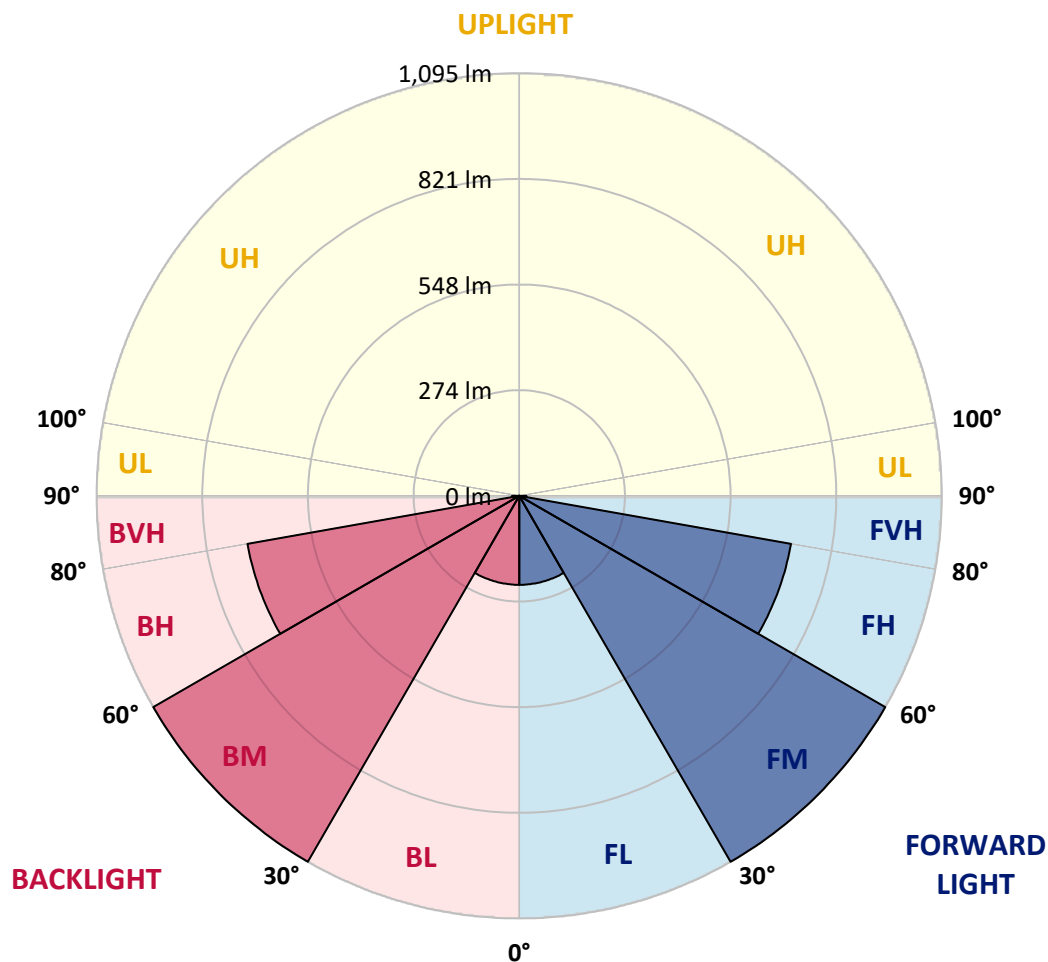
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.6	5.6			
FM	(30°-60°)	1095.0	26.6			
FH	(60°-80°)	715.1	17.4			G1/1800
FVH	(80°-90°)	18.6	0.5			G1/100
BL	(0°-30°)	230.6	5.6	B1/500		
BM	(30°-60°)	1095.0	26.6	B2/2500		
BH	(60°-80°)	715.1	17.4	B2/1000		G2/1000
BVH	(80°-90°)	18.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2
2.5°	441.2	440.7	441.2	441.6	441.4	441.4	442.4	443.0	444.3	444.1	443.9
5°	438.2	438.0	439.7	441.6	443.0	445.6	448.7	451.0	454.0	454.6	454.6
7.5°	436.8	436.1	439.0	442.4	447.0	453.4	459.4	465.8	470.8	472.5	472.9
10°	437.8	438.0	442.0	448.3	455.7	464.5	473.1	483.8	491.0	492.7	494.4
12.5°	442.6	442.2	449.0	459.0	469.1	480.3	490.4	502.1	509.9	513.9	515.6
15°	451.5	450.6	460.1	475.0	489.7	502.8	511.0	522.1	531.2	536.2	538.1
17.5°	462.0	462.4	474.8	494.2	513.5	528.2	536.0	541.7	548.6	553.0	555.1
20°	480.5	481.3	495.2	518.1	540.2	557.0	563.3	561.2	563.1	566.5	569.0
22.5°	505.3	505.7	521.3	546.1	569.2	587.7	591.9	583.3	578.1	580.4	582.0
25°	534.1	536.8	552.4	577.8	601.6	619.3	621.2	608.1	595.1	595.7	596.8
27.5°	569.2	571.7	587.5	612.7	636.9	652.3	652.1	634.6	615.5	610.6	612.1
30°	607.3	610.0	626.2	652.3	674.8	688.2	685.3	664.5	637.1	628.1	629.1
32.5°	652.5	654.2	670.6	696.7	717.5	728.2	722.1	696.4	662.4	652.1	654.6
35°	707.1	709.7	721.9	746.5	764.8	773.6	763.3	733.0	694.7	683.2	684.9
37.5°	769.6	767.9	781.8	803.7	818.8	824.3	810.2	774.3	731.7	718.1	720.6
40°	834.8	833.9	849.1	870.1	878.3	881.7	860.9	821.5	774.5	759.7	764.5
42.5°	893.9	893.3	913.7	937.0	946.9	943.1	916.8	871.8	823.9	807.1	811.3
45°	941.2	940.3	965.3	998.1	1017.5	1011.3	975.9	927.3	873.9	856.5	860.5
47.5°	977.5	978.0	1004.9	1045.5	1079.3	1081.7	1036.3	983.9	929.0	909.3	915.1
50°	1003.9	1005.1	1033.9	1078.9	1125.1	1145.5	1097.9	1041.9	985.9	963.7	970.5
52.5°	1010.3	1012.7	1047.3	1100.1	1154.7	1193.5	1160.5	1097.7	1040.1	1018.7	1024.3
55°	975.7	980.3	1024.3	1098.5	1172.7	1225.1	1215.6	1154.3	1094.5	1072.7	1078.7
57.5°	896.0	902.5	953.8	1050.7	1168.7	1246.7	1258.3	1208.5	1148.9	1127.9	1132.7
60°	784.3	792.1	841.3	947.1	1112.3	1254.7	1288.3	1261.3	1199.0	1178.6	1183.1
62.5°	615.9	626.0	684.9	808.9	993.3	1217.5	1314.0	1308.9	1244.0	1218.5	1221.5
65°	395.1	405.8	467.9	614.4	834.6	1103.5	1322.0	1355.5	1291.5	1255.9	1260.4
67.5°	238.2	243.1	273.8	372.4	610.0	931.7	1254.3	1406.9	1347.1	1302.9	1306.3
70°	152.4	155.2	173.4	218.7	344.8	679.8	1086.5	1416.7	1414.3	1351.1	1350.6
72.5°	103.4	104.3	109.2	129.6	195.2	386.3	801.3	1282.5	1456.4	1413.1	1406.3
75°	75.7	80.4	88.1	91.6	110.8	193.0	459.2	901.1	1227.3	1246.3	1200.5
77.5°	56.4	56.6	67.2	71.5	79.0	102.8	194.3	503.0	762.1	800.1	713.7
80°	47.8	45.2	45.0	57.6	59.6	64.2	86.8	173.7	273.0	165.5	125.2
82.5°	39.8	37.0	33.4	45.0	40.6	39.4	37.6	70.6	86.8	42.6	36.4
85°	27.8	26.4	25.2	29.4	23.2	19.8	18.0	33.0	36.6	18.0	16.0
87.5°	12.0	12.4	12.6	13.0	9.6	7.0	7.0	9.2	9.2	7.2	5.2
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)