

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: P959440

Luminaire Tested: **NAV-SB1A-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959440
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-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

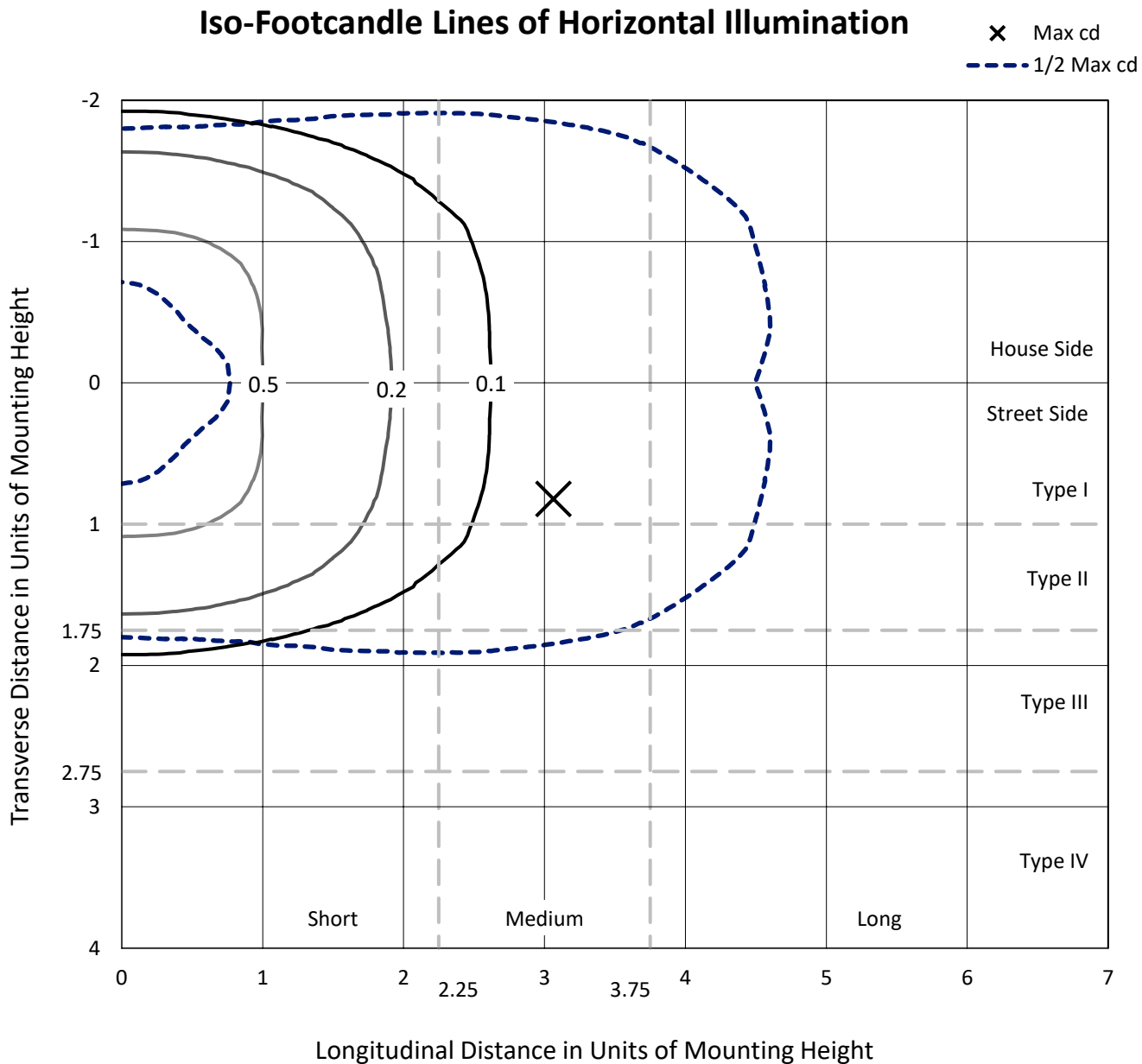
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4255.8 lumens
Efficiency: N/A
Efficacy: 137.7 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



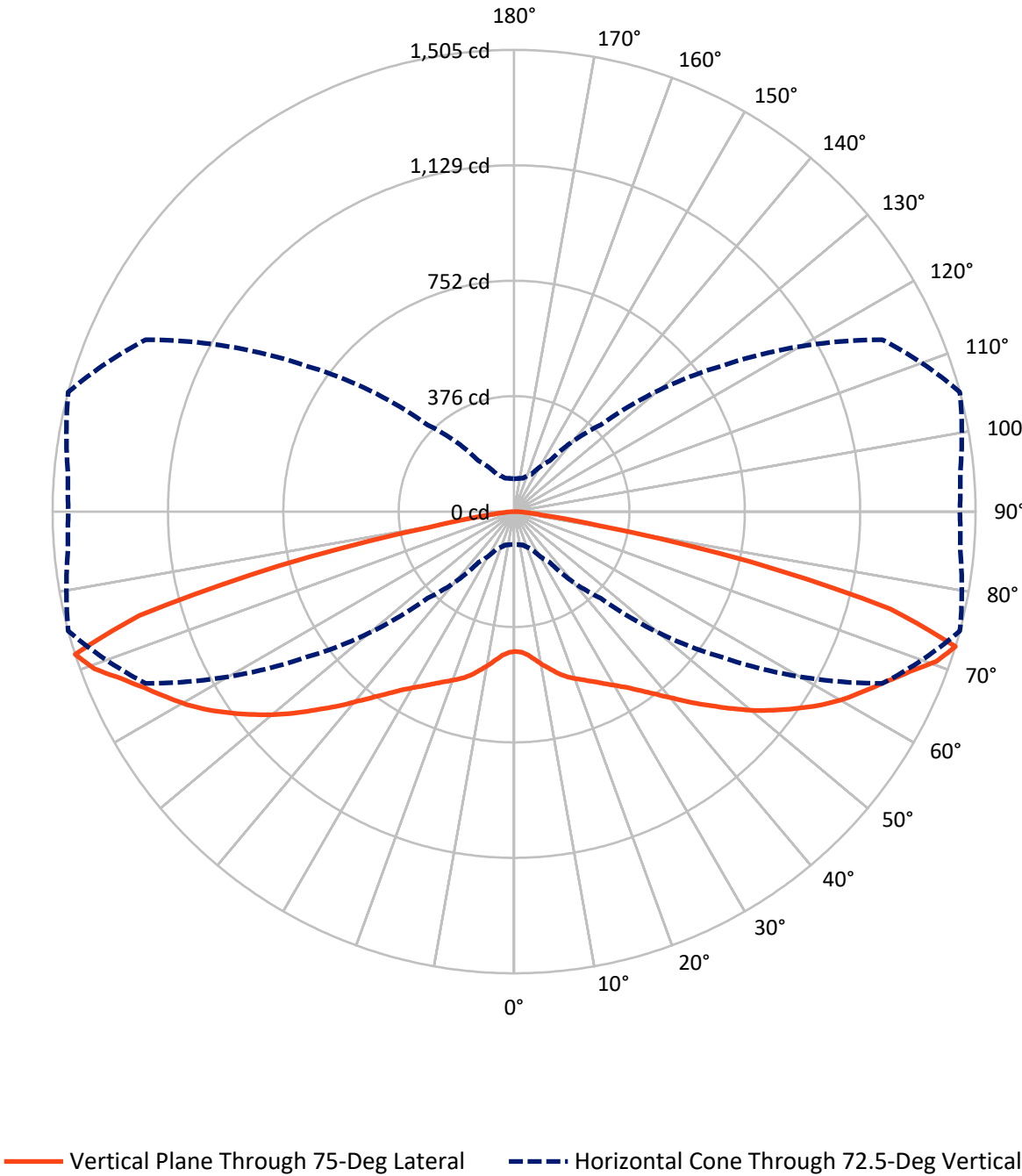
REPORT NUMBER: P959440
CATALOG NUMBER: NAV-SB1A-830-U-RW



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type III - Medium - N/A

REPORT NUMBER: P959440
CATALOG NUMBER: NAV-SB1A-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P959440

CATALOG NUMBER: NAV-SB1A-830-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2127.9	0.0	2127.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2127.9	0.0	2127.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4255.8	0.0	4255.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.0
10°-20°	147.3	3.5
20°-30°	284.6	6.7
30°-40°	480.6	11.3
40°-50°	762.1	17.9
50°-60°	1020.4	24.0
60°-70°	971.1	22.8
70°-80°	506.7	11.9
80°-90°	38.3	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°	4255.8	100.0
0°-180°	4255.8	100.0

Coefficient of Utilization



REPORT NUMBER: P959440

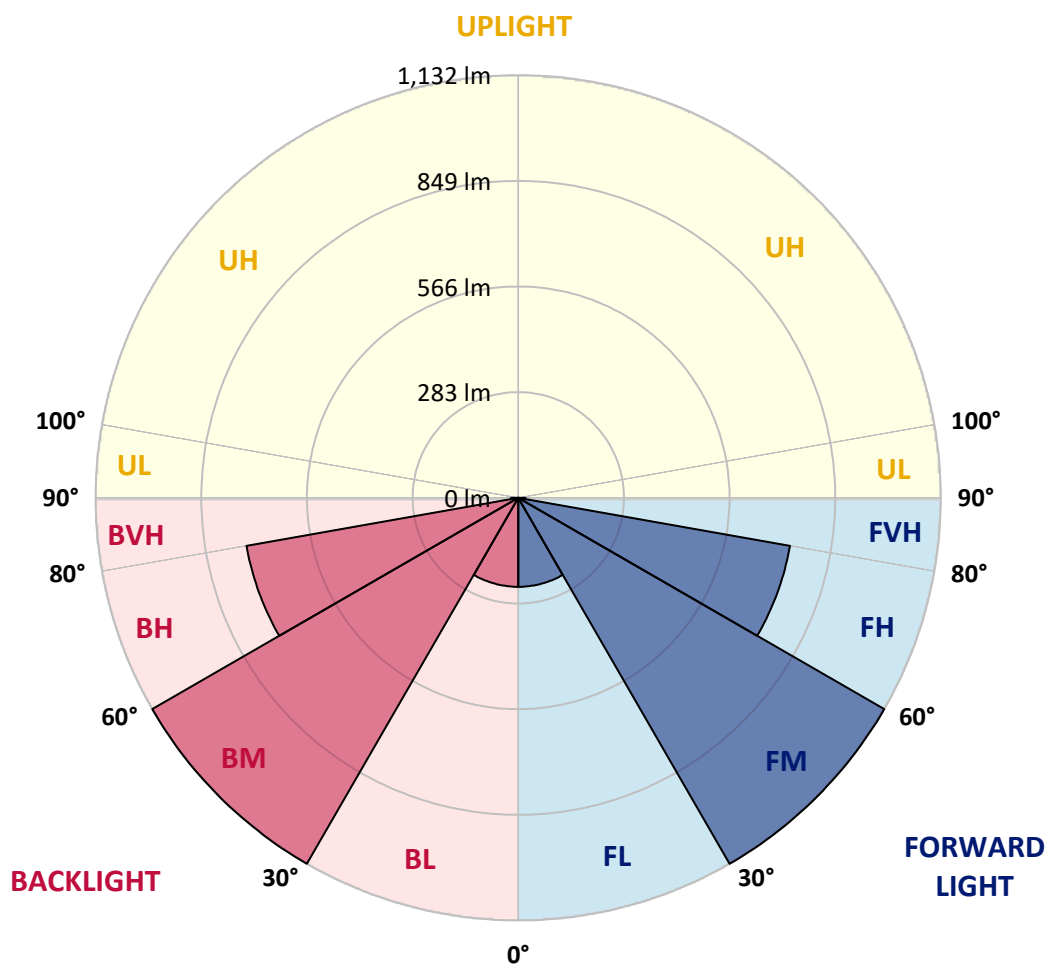
CATALOG NUMBER: NAV-SB1A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.3	5.6			
FM	(30°-60°)	1131.5	26.6			
FH	(60°-80°)	738.9	17.4			G1/1800
FVH	(80°-90°)	19.2	0.5			G1/100
BL	(0°-30°)	238.3	5.6	B1/500		
BM	(30°-60°)	1131.5	26.6	B2/2500		
BH	(60°-80°)	738.9	17.4	B2/1000		G2/1000
BVH	(80°-90°)	19.2	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



REPORT NUMBER: P959440

CATALOG NUMBER: NAV-SB1A-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
2.5°	455.9	455.4	455.9	456.3	456.1	456.1	457.2	457.9	459.1	458.9	458.7
5°	452.8	452.6	454.4	456.3	457.9	460.4	463.7	466.1	469.1	469.8	469.8
7.5°	451.3	450.7	453.7	457.2	462.0	468.4	474.8	481.3	486.5	488.2	488.7
10°	452.4	452.6	456.7	463.3	470.9	480.0	488.9	500.0	507.4	509.1	510.9
12.5°	457.4	456.9	463.9	474.4	484.7	496.3	506.8	518.9	527.0	531.1	532.8
15°	466.5	465.7	475.4	490.9	506.0	519.6	528.0	539.6	548.9	554.1	556.1
17.5°	477.3	477.9	490.7	510.7	530.6	545.8	553.9	559.8	566.9	571.4	573.7
20°	496.5	497.3	511.7	535.4	558.2	575.6	582.1	579.9	581.9	585.4	587.9
22.5°	522.1	522.5	538.6	564.3	588.2	607.3	611.6	602.8	597.4	599.7	601.5
25°	552.0	554.7	570.8	597.1	621.7	639.9	641.9	628.4	614.9	615.6	616.6
27.5°	588.2	590.8	607.1	633.1	658.2	674.0	673.8	655.8	636.0	631.0	632.5
30°	627.5	630.4	647.1	674.0	697.3	711.1	708.2	686.6	658.4	649.0	650.2
32.5°	674.2	676.0	692.9	719.9	741.4	752.5	746.2	719.7	684.5	673.8	676.4
35°	730.7	733.4	746.0	771.4	790.3	799.4	788.7	757.5	717.9	706.0	707.7
37.5°	795.3	793.6	807.9	830.5	846.1	851.8	837.2	800.0	756.1	742.0	744.7
40°	862.6	861.7	877.4	899.1	907.6	911.1	889.6	848.9	800.3	785.0	790.1
42.5°	923.7	923.0	944.1	968.2	978.5	974.6	947.4	900.9	851.4	833.9	838.3
45°	972.6	971.7	997.5	1031.5	1051.4	1045.0	1008.4	958.3	903.0	885.0	889.2
47.5°	1010.1	1010.6	1038.4	1080.4	1115.3	1117.8	1070.8	1016.7	960.0	939.5	945.7
50°	1037.3	1038.6	1068.5	1114.9	1162.8	1183.8	1134.5	1076.7	1018.8	995.8	1002.8
52.5°	1044.1	1046.4	1082.3	1136.8	1193.1	1233.4	1199.2	1134.3	1074.7	1052.8	1058.4
55°	1008.2	1013.0	1058.4	1135.1	1211.9	1265.9	1256.1	1192.7	1131.0	1108.4	1114.7
57.5°	925.9	932.6	985.6	1085.8	1207.7	1288.3	1300.2	1248.8	1187.3	1165.5	1170.6
60°	810.5	818.6	869.4	978.7	1149.4	1296.5	1331.4	1303.3	1239.0	1217.9	1222.5
62.5°	636.4	646.9	707.7	835.9	1026.4	1258.1	1357.8	1352.6	1285.5	1259.2	1262.2
65°	408.3	419.3	483.5	634.9	862.4	1140.3	1366.1	1400.7	1334.6	1297.9	1302.5
67.5°	246.2	251.2	282.9	384.8	630.4	962.8	1296.1	1453.9	1391.9	1346.3	1349.8
70°	157.5	160.3	179.3	226.0	356.4	702.5	1122.7	1463.9	1461.4	1396.0	1395.6
72.5°	106.9	107.7	112.7	133.9	201.6	399.1	828.1	1325.2	1504.9	1460.2	1453.2
75°	78.2	83.0	91.0	94.7	114.5	199.5	474.6	931.1	1268.3	1287.9	1240.5
77.5°	58.2	58.4	69.5	73.9	81.7	106.3	200.8	519.8	787.4	826.8	737.5
80°	49.3	46.7	46.5	59.6	61.5	66.3	89.8	179.5	282.1	171.0	129.3
82.5°	41.1	38.2	34.5	46.5	41.9	40.6	38.8	73.0	89.8	44.1	37.6
85°	28.7	27.4	26.0	30.4	23.9	20.4	18.7	34.1	37.8	18.7	16.5
87.5°	12.4	12.8	13.0	13.4	10.0	7.2	7.2	9.5	9.5	7.4	5.4
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)