

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: P963636

Luminaire Tested: **NAV-SB3A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11867.4 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
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



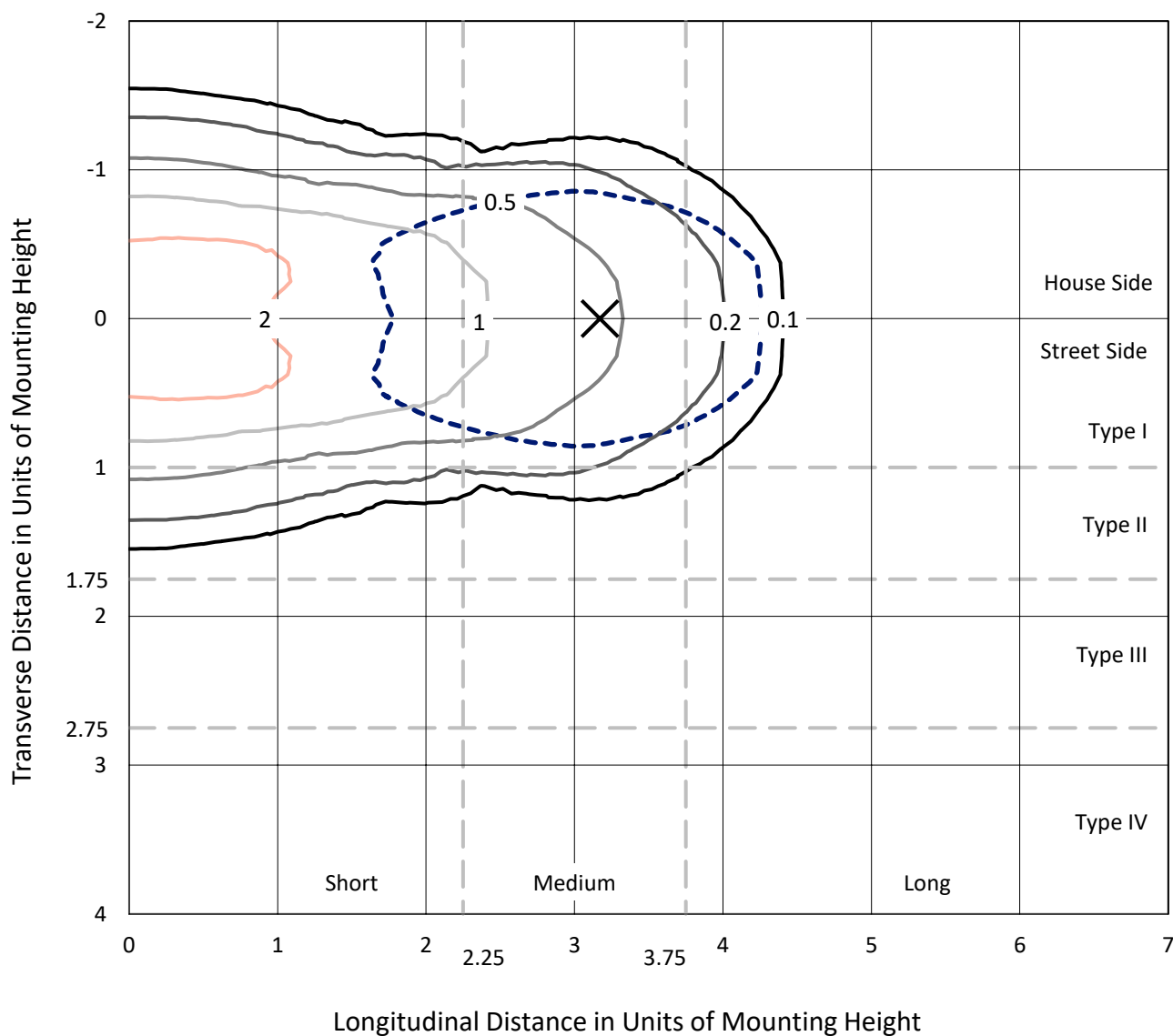
REPORT NUMBER: P963636

CATALOG NUMBER: NAV-SB3A-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

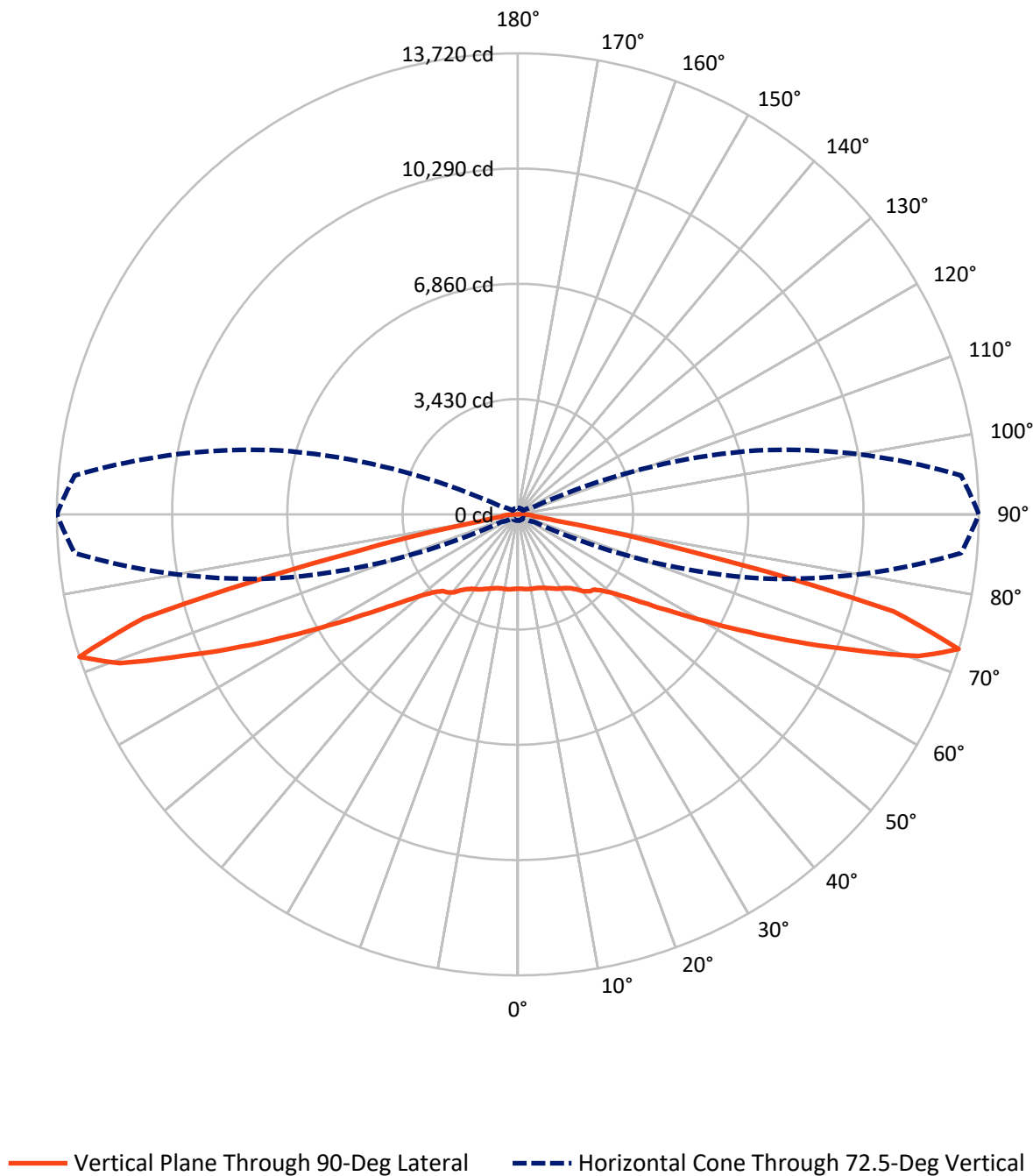


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type I - Short - N/A

REPORT NUMBER: P963636
CATALOG NUMBER: NAV-SB3A-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P963636

CATALOG NUMBER: NAV-SB3A-827-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5933.7	0.0	5933.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5933.7	0.0	5933.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11867.4	0.0	11867.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.8
10°-20°	657.4	5.5
20°-30°	1096.2	9.2
30°-40°	1507.6	12.7
40°-50°	1841.3	15.5
50°-60°	2129.6	17.9
60°-70°	2539.2	21.4
70°-80°	1772.2	14.9
80°-90°	108.8	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°	11867.4	100.0
0°-180°	11867.4	100.0

Coefficient of Utilization



REPORT NUMBER: P963636

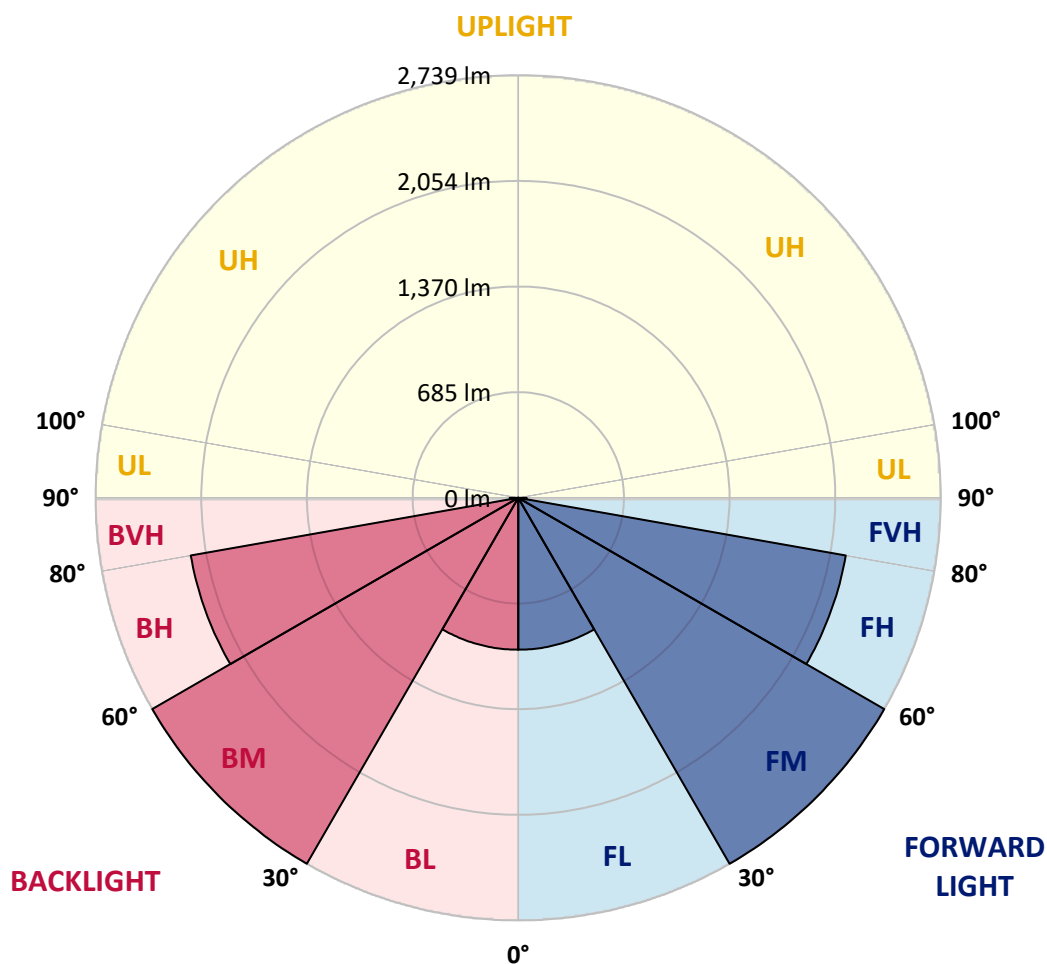
CATALOG NUMBER: NAV-SB3A-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.3	8.3			
FM	(30°-60°)	2739.2	23.1			
FH	(60°-80°)	2155.7	18.2			G2/5000
FVH	(80°-90°)	54.4	0.5			G1/100
BL	(0°-30°)	984.3	8.3	B2/1000		
BM	(30°-60°)	2739.2	23.1	B3/5000		
BH	(60°-80°)	2155.7	18.2	B3/2500		G3/2500
BVH	(80°-90°)	54.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



REPORT NUMBER: P963636

CATALOG NUMBER: NAV-SB3A-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2217.6	2217.6	2217.6	2217.6	2217.6	2217.6	2217.6	2217.6	2217.6	2217.6	2217.6
2.5°	2219.4	2222.0	2222.0	2220.0	2224.5	2220.7	2220.7	2218.8	2220.7	2218.8	2218.8
5°	2230.8	2234.0	2235.2	2234.6	2240.2	2237.1	2237.1	2234.6	2235.2	2233.4	2233.4
7.5°	2252.2	2256.6	2259.2	2262.4	2270.6	2266.8	2264.2	2256.6	2253.5	2248.4	2248.4
10°	2259.2	2264.2	2272.4	2288.8	2307.8	2308.4	2300.8	2281.9	2267.4	2256.0	2254.2
12.5°	2237.8	2244.6	2261.7	2295.2	2337.4	2354.4	2342.4	2310.9	2282.5	2262.4	2259.2
15°	2210.6	2218.2	2244.0	2294.5	2357.0	2396.7	2395.4	2353.8	2308.4	2276.8	2271.8
17.5°	2168.4	2176.0	2213.2	2283.8	2372.1	2437.7	2455.3	2412.4	2348.8	2306.5	2299.6
20°	2092.0	2099.0	2150.7	2249.8	2377.1	2481.2	2527.2	2489.4	2409.9	2352.6	2341.8
22.5°	1993.0	2003.8	2064.2	2191.0	2365.2	2526.6	2609.2	2583.4	2481.2	2401.7	2387.2
25°	1887.0	1898.4	1969.0	2119.2	2334.2	2559.4	2706.3	2689.9	2561.9	2462.9	2442.7
27.5°	1795.6	1807.6	1884.6	2047.8	2286.3	2572.0	2802.2	2810.4	2659.7	2530.4	2509.0
30°	1723.7	1735.1	1817.0	1990.5	2224.5	2559.4	2886.1	2942.9	2759.3	2589.0	2558.1
32.5°	1644.9	1659.4	1745.8	1920.5	2151.4	2529.1	2959.3	3086.1	2874.7	2652.1	2613.0
35°	1545.2	1558.5	1649.3	1824.6	2055.4	2480.6	3020.5	3244.9	3040.0	2748.0	2704.5
37.5°	1424.1	1436.7	1526.9	1704.8	1960.2	2412.4	3067.1	3424.1	3236.7	2886.1	2828.1
40°	1302.4	1314.4	1398.9	1571.1	1846.0	2325.4	3083.5	3599.4	3462.6	3075.9	3014.1
42.5°	1190.7	1201.5	1279.1	1439.3	1718.0	2214.4	3062.1	3752.0	3665.0	3208.4	3128.9
45°	1087.9	1097.5	1166.1	1315.7	1585.0	2079.4	2997.7	3916.0	3906.0	3303.0	3195.7
47.5°	970.7	980.1	1051.3	1195.9	1451.9	1921.2	2888.7	4077.6	4240.8	3517.4	3393.8
50°	827.5	835.7	908.9	1057.7	1313.7	1752.7	2737.3	4204.2	4663.4	3842.2	3687.1
52.5°	657.8	666.7	737.9	886.7	1149.7	1571.7	2538.0	4286.9	5151.5	4316.6	4125.4
55°	489.4	495.7	557.5	691.3	946.7	1365.5	2288.2	4310.2	5705.4	4964.9	4725.9
57.5°	355.1	358.9	398.6	498.3	717.7	1107.5	1984.8	4249.6	6364.4	5796.2	5495.3
60°	287.6	288.8	300.8	345.0	498.9	816.1	1618.4	4041.6	7079.7	6867.7	6488.7
62.5°	261.1	261.1	264.2	276.2	337.4	538.6	1175.0	3610.2	7846.6	8221.8	7714.2
65°	242.8	242.8	244.1	249.8	266.2	343.1	741.7	2907.5	8493.0	9808.1	9166.1
67.5°	226.4	227.0	226.4	228.3	237.8	253.6	430.1	2008.2	8841.2	11451.7	10758.6
70°	209.4	210.6	207.5	207.5	215.0	215.7	269.3	1101.3	8552.4	12829.2	12646.9
72.5°	189.2	191.1	186.0	184.8	190.4	188.0	202.4	528.5	7342.7	13240.4	13719.7
75°	171.6	174.0	162.8	159.6	159.6	157.6	164.6	271.2	4765.6	10800.8	11552.6
77.5°	155.8	160.8	142.6	132.4	130.0	124.2	134.4	165.8	2084.4	5070.9	4965.5
80°	128.6	135.6	117.3	105.4	101.0	94.6	106.0	116.0	620.0	1177.5	1127.7
82.5°	95.8	99.0	83.2	75.0	71.2	66.8	79.4	80.8	201.8	416.9	471.1
85°	61.2	62.4	51.0	44.2	42.2	40.4	50.4	44.2	77.0	306.5	445.3
87.5°	21.4	24.6	19.6	17.6	19.0	15.8	23.4	13.2	21.4	216.4	268.0
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)