

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: P962447

Luminaire Tested: **NAV-SB2C-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962447
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-SB2C-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

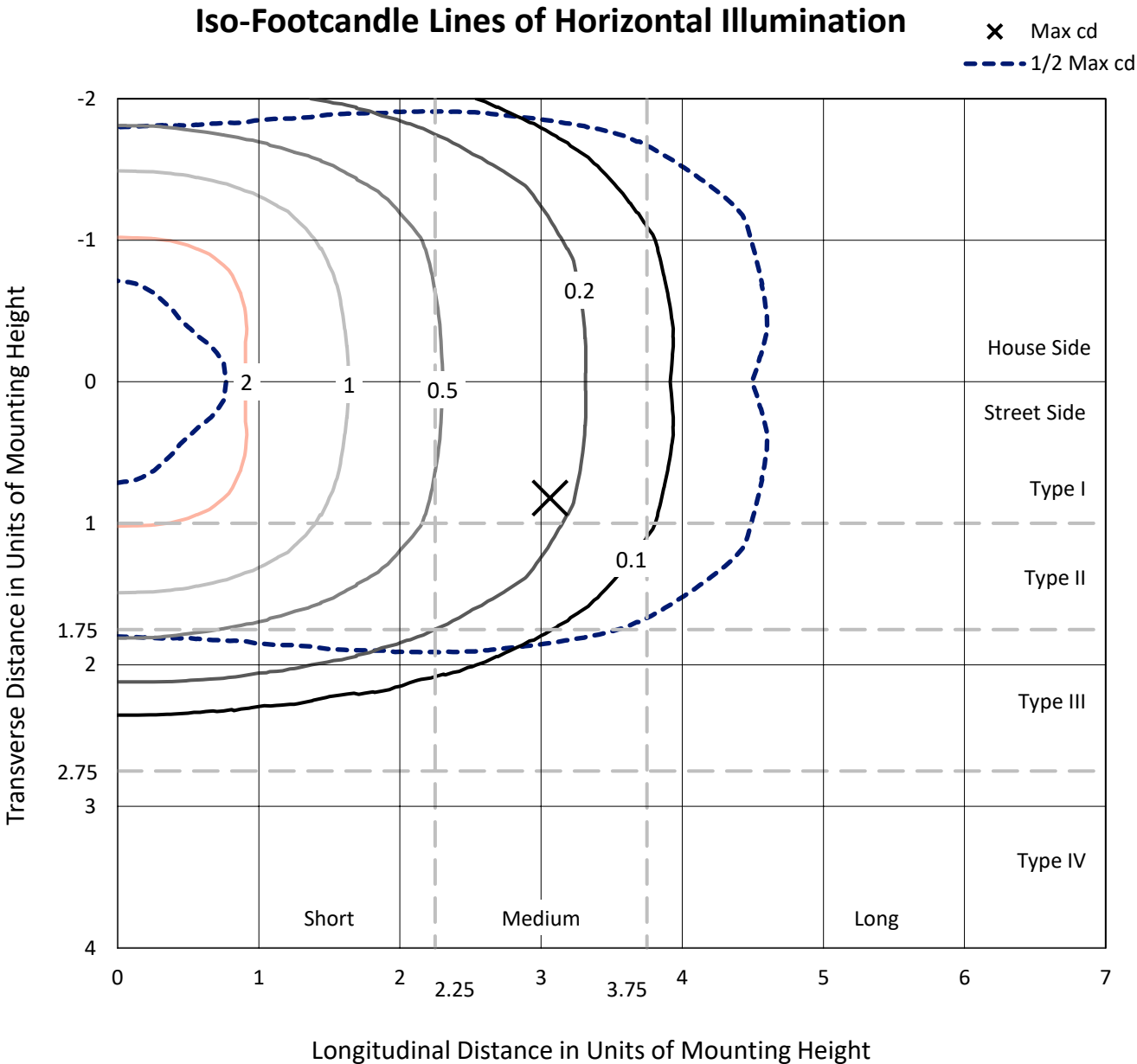
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15807.6 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 100.9
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: P962447
CATALOG NUMBER: NAV-SB2C-735-U-RW

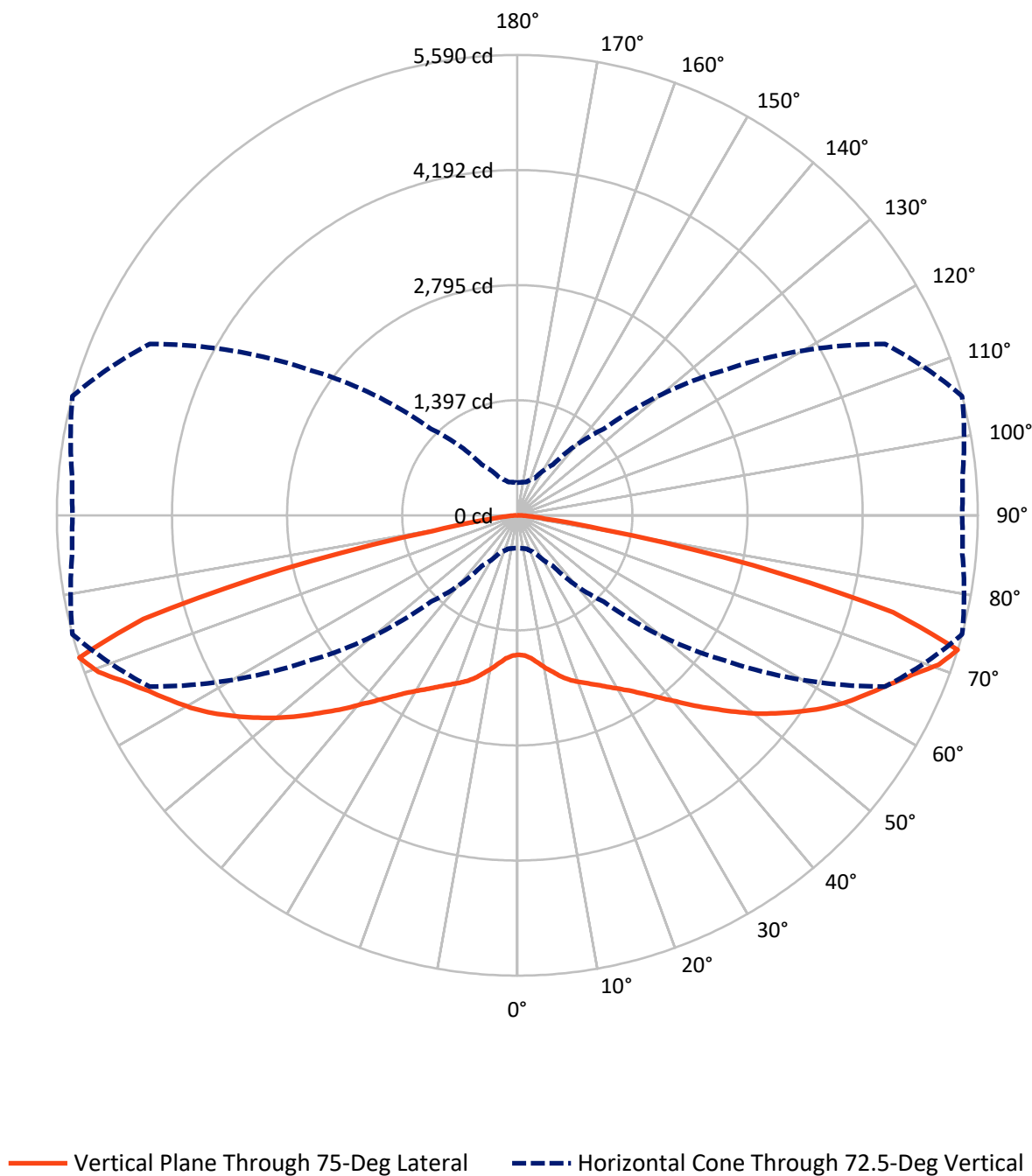


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Medium - N/A

REPORT NUMBER: P962447

CATALOG NUMBER: NAV-SB2C-735-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P962447

CATALOG NUMBER: NAV-SB2C-735-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7903.8	0.0	7903.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7903.8	0.0	7903.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15807.6	0.0	15807.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.0
10°-20°	547.1	3.5
20°-30°	1057.1	6.7
30°-40°	1785.0	11.3
40°-50°	2830.8	17.9
50°-60°	3790.1	24.0
60°-70°	3607.0	22.8
70°-80°	1882.2	11.9
80°-90°	142.5	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°	15807.6	100.0
0°-180°	15807.6	100.0

Coefficient of Utilization



REPORT NUMBER: P962447

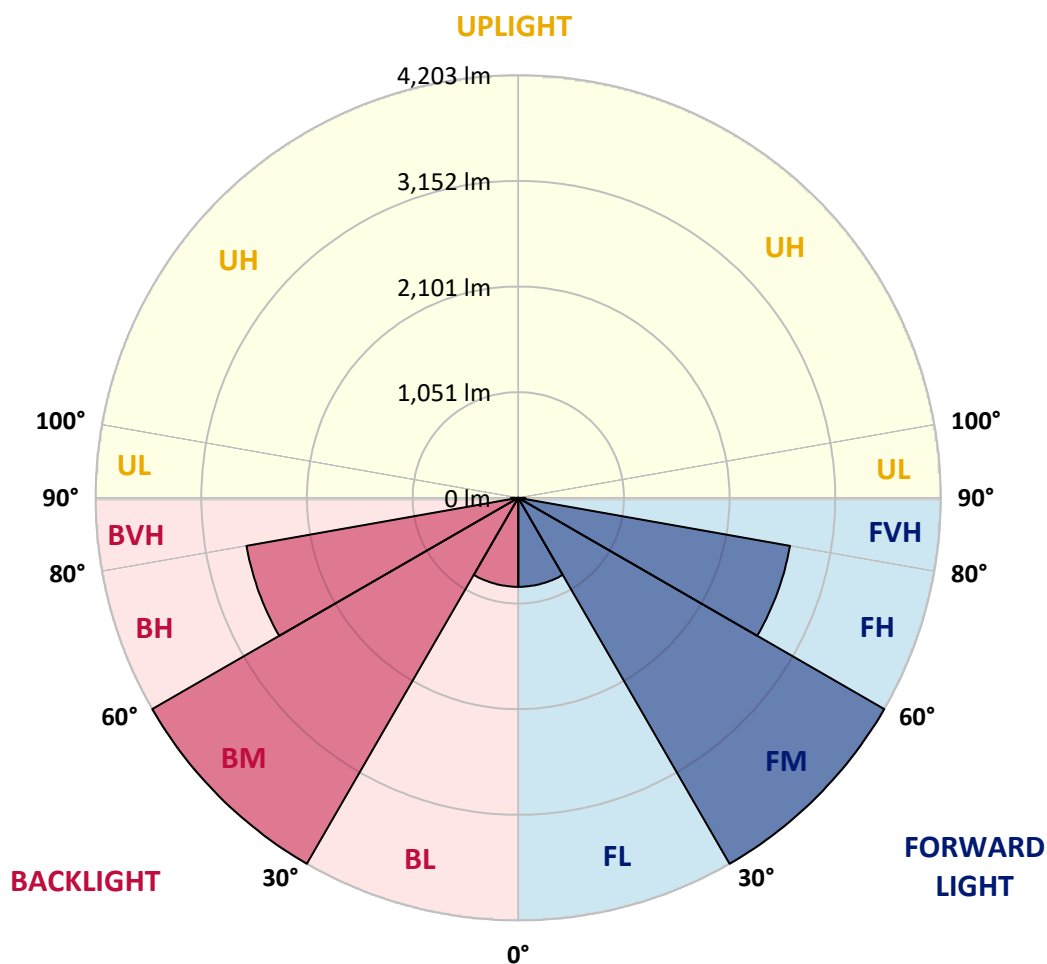
CATALOG NUMBER: NAV-SB2C-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.0	5.6			
FM	(30°-60°)	4202.9	26.6			
FH	(60°-80°)	2744.6	17.4			G2/5000
FVH	(80°-90°)	71.2	0.5			G1/100
BL	(0°-30°)	885.0	5.6	B2/1000		
BM	(30°-60°)	4202.9	26.6	B3/5000		
BH	(60°-80°)	2744.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	71.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P962447

CATALOG NUMBER: NAV-SB2C-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1693.3	1691.7	1693.3	1694.8	1694.1	1694.1	1698.1	1700.6	1705.4	1704.6	1703.8
5°	1681.9	1681.2	1687.7	1694.8	1700.6	1710.2	1722.3	1731.2	1742.5	1745.0	1745.0
7.5°	1676.3	1673.9	1685.2	1698.1	1715.8	1740.0	1763.5	1787.7	1807.1	1813.5	1815.2
10°	1680.4	1681.2	1696.5	1720.7	1749.0	1782.9	1816.0	1857.1	1884.6	1891.0	1897.5
12.5°	1698.9	1697.3	1723.1	1761.9	1800.6	1843.4	1882.1	1927.3	1957.2	1972.5	1979.0
15°	1732.9	1729.6	1765.9	1823.2	1879.7	1929.8	1961.2	2004.0	2038.7	2058.1	2065.4
17.5°	1773.1	1774.8	1822.4	1896.7	1970.9	2027.4	2057.3	2079.1	2105.7	2122.7	2130.7
20°	1844.2	1847.5	1900.7	1988.7	2073.4	2137.9	2162.2	2154.1	2161.4	2174.3	2184.0
22.5°	1939.4	1941.0	2000.8	2096.0	2184.8	2255.8	2271.9	2238.9	2218.7	2227.5	2234.0
25°	2050.0	2060.5	2120.2	2217.9	2309.1	2376.9	2384.1	2334.1	2284.1	2286.5	2290.6
27.5°	2184.8	2194.4	2255.0	2351.9	2444.6	2503.6	2502.7	2435.8	2362.3	2343.8	2349.4
30°	2330.8	2341.4	2403.5	2503.6	2590.0	2641.6	2630.3	2550.4	2445.4	2410.8	2414.8
32.5°	2504.4	2510.8	2573.8	2673.9	2753.8	2795.0	2771.5	2673.1	2542.3	2502.7	2512.5
35°	2714.2	2723.9	2770.8	2865.2	2935.4	2969.3	2929.8	2813.5	2666.6	2622.3	2628.7
37.5°	2953.9	2947.5	3000.8	3084.7	3142.8	3163.8	3109.7	2971.7	2808.7	2756.2	2765.9
40°	3204.1	3200.9	3259.0	3339.8	3371.2	3384.1	3304.2	3153.3	2972.5	2916.0	2934.6
42.5°	3431.0	3428.5	3506.8	3596.4	3634.3	3619.8	3518.9	3346.2	3162.1	3097.7	3113.7
45°	3612.5	3609.3	3705.4	3831.2	3905.5	3881.3	3745.7	3559.2	3354.2	3287.3	3302.7
47.5°	3752.1	3753.8	3857.1	4012.9	4142.7	4151.7	3977.3	3776.4	3565.7	3489.8	3512.5
50°	3853.1	3857.9	3968.5	4141.2	4318.7	4397.0	4213.8	3999.1	3784.4	3698.9	3724.7
52.5°	3878.1	3886.9	4020.2	4222.7	4431.7	4581.0	4454.3	4213.0	3991.9	3910.4	3931.3
55°	3744.9	3762.7	3931.3	4216.2	4501.1	4702.1	4665.8	4430.2	4200.9	4116.9	4140.4
57.5°	3439.0	3464.0	3661.0	4033.1	4485.8	4785.2	4829.6	4638.3	4410.0	4329.2	4347.7
60°	3010.4	3040.3	3229.2	3635.2	4269.5	4815.9	4945.0	4840.9	4602.0	4523.7	4540.6
62.5°	2364.0	2402.7	2628.7	3104.8	3812.7	4673.1	5043.5	5024.1	4774.8	4677.1	4688.3
65°	1516.5	1557.7	1795.8	2358.3	3203.3	4235.6	5074.2	5202.5	4957.1	4820.8	4837.7
67.5°	914.4	933.0	1050.8	1429.4	2341.4	3576.2	4814.3	5400.2	5170.2	5000.8	5013.6
70°	585.2	595.6	665.8	839.4	1323.6	2609.3	4170.2	5437.3	5428.5	5185.6	5183.9
72.5°	397.1	400.4	418.9	497.1	749.0	1482.7	3075.8	4922.5	5589.9	5423.7	5397.9
75°	290.6	308.3	338.1	351.9	425.4	740.9	1762.7	3458.4	4711.0	4783.6	4607.7
77.5°	216.3	217.1	258.3	274.4	303.5	394.6	745.8	1930.6	2924.8	3071.0	2739.2
80°	183.2	173.5	172.7	221.1	228.4	246.2	333.3	666.7	1047.6	635.2	480.2
82.5°	152.5	142.1	128.3	172.7	155.8	150.9	144.4	271.2	333.3	163.8	139.6
85°	106.5	101.7	96.9	113.0	88.8	75.8	69.4	126.7	140.4	69.4	61.3
87.5°	46.0	47.7	48.4	50.0	37.1	26.6	26.6	35.5	35.5	27.5	20.2
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)