

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: P971406

Luminaire Tested: **NAV-SB6D-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971406
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-SB6D-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65132.6 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

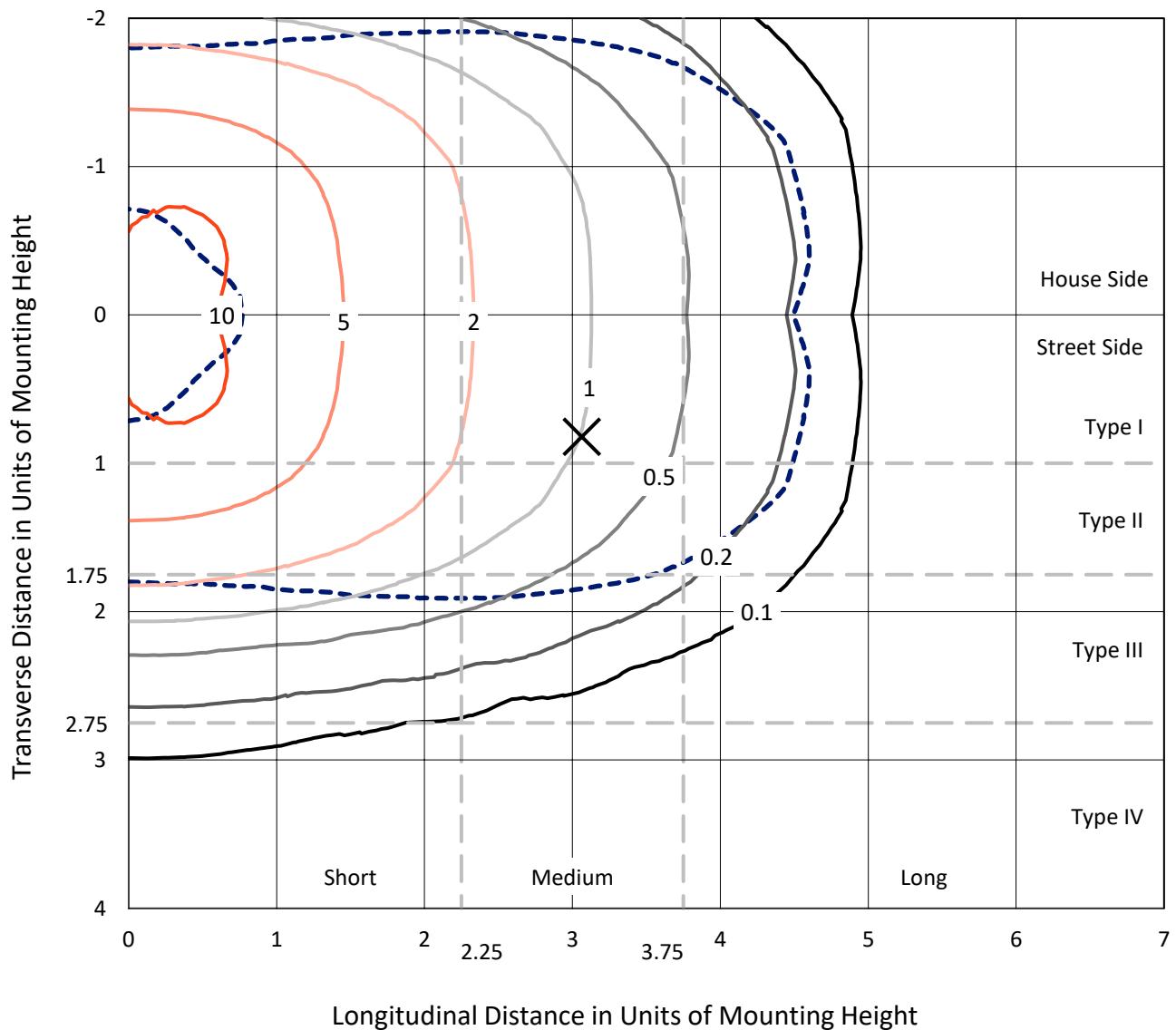
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971406
 CATALOG NUMBER: NAV-SB6D-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

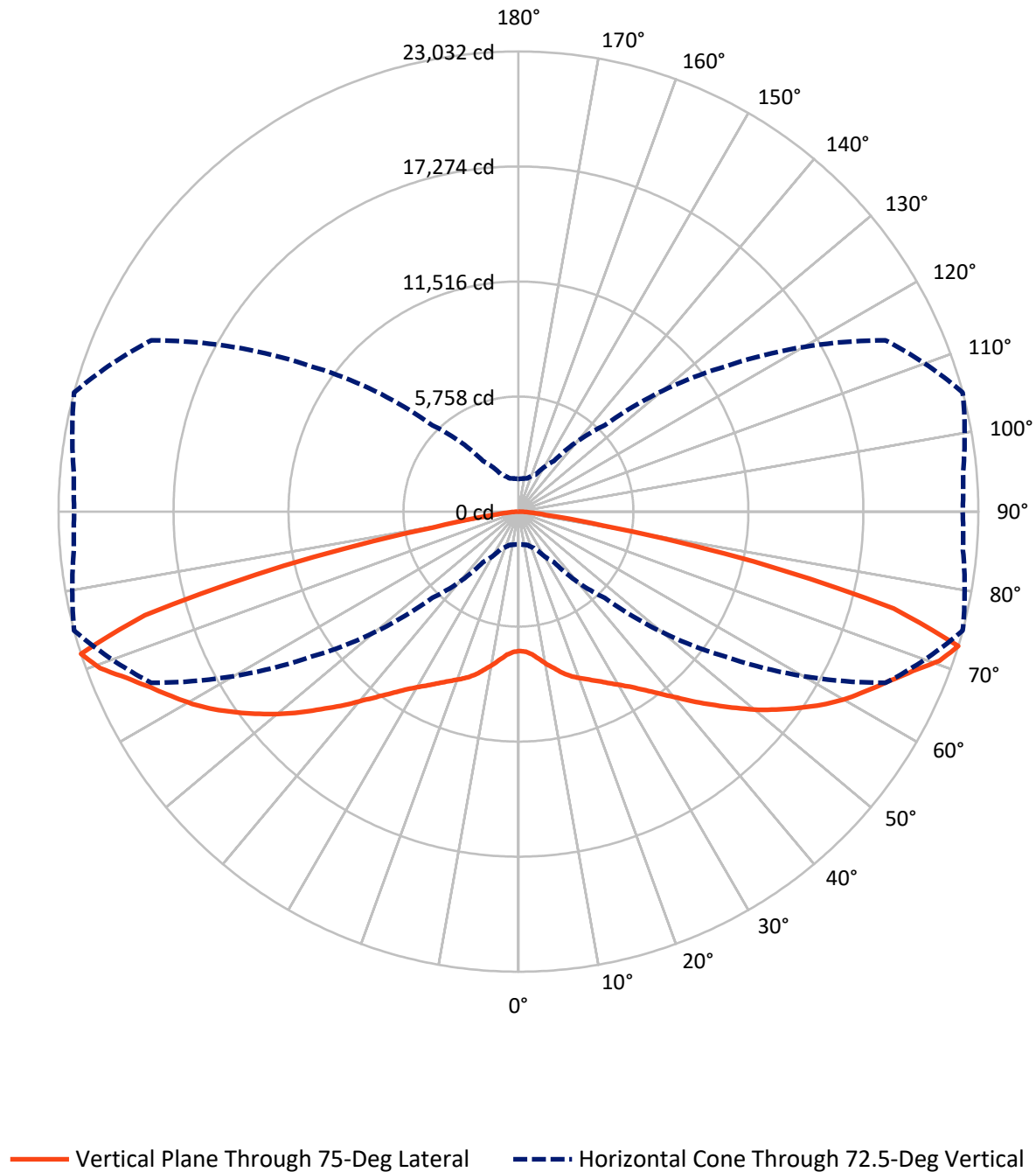
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P971406
CATALOG NUMBER: NAV-SB6D-735-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P971406

CATALOG NUMBER: NAV-SB6D-735-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32566.3	0.0	32566.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32566.3	0.0	32566.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	65132.6	0.0	65132.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.5	1.0
10°-20°	2254.1	3.5
20°-30°	4355.7	6.7
30°-40°	7354.8	11.3
40°-50°	11663.9	17.9
50°-60°	15616.5	24.0
60°-70°	14861.9	22.8
70°-80°	7755.2	11.9
80°-90°	587.0	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°	65132.6	100.0
0°-180°	65132.6	100.0

Coefficient of Utilization



REPORT NUMBER: P971406

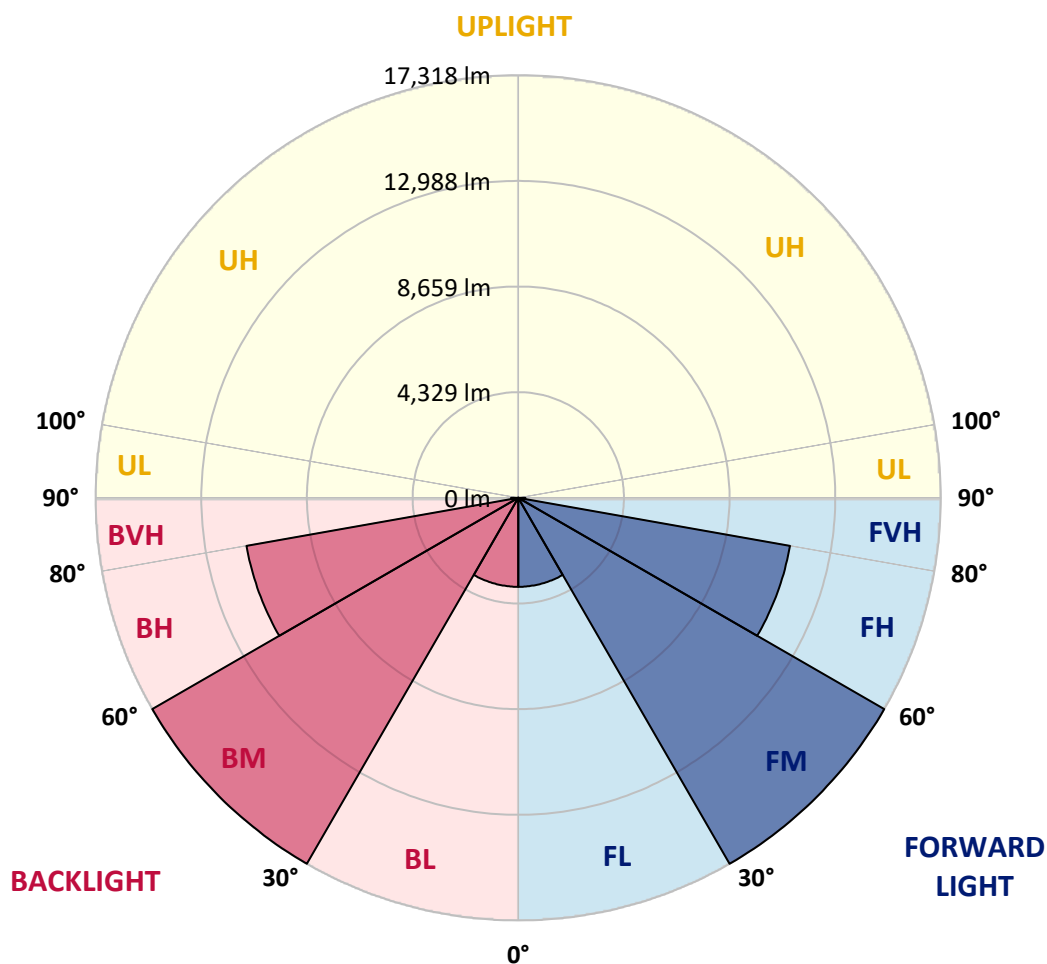
CATALOG NUMBER: NAV-SB6D-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3646.6	5.6			
FM	(30°-60°)	17317.6	26.6			
FH	(60°-80°)	11308.6	17.4			G4/12000
FVH	(80°-90°)	293.5	0.5			G3/500
BL	(0°-30°)	3646.6	5.6	B4/5000		
BM	(30°-60°)	17317.6	26.6	B5		
BH	(60°-80°)	11308.6	17.4	B5		G5
BVH	(80°-90°)	293.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



REPORT NUMBER: P971406

CATALOG NUMBER: NAV-SB6D-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6976.9	6976.9	6976.9	6976.9	6976.9	6976.9	6976.9	6976.9	6976.9	6976.9	6976.9
2.5°	6976.9	6970.2	6976.9	6983.5	6980.1	6980.1	6996.9	7006.8	7026.8	7023.4	7020.1
5°	6930.3	6927.0	6953.6	6983.5	7006.8	7046.7	7096.6	7133.2	7179.7	7189.7	7189.7
7.5°	6907.1	6897.0	6943.7	6996.9	7069.9	7169.8	7266.2	7366.0	7445.8	7472.4	7479.0
10°	6923.7	6927.0	6990.2	7089.9	7206.4	7346.0	7482.3	7651.9	7765.0	7791.6	7818.2
12.5°	7000.1	6993.5	7099.9	7259.6	7419.2	7595.5	7755.0	7941.3	8064.3	8127.5	8154.1
15°	7139.8	7126.5	7276.2	7512.2	7745.1	7951.2	8080.9	8257.2	8400.2	8480.0	8510.0
17.5°	7306.1	7312.8	7508.9	7814.9	8120.9	8353.6	8476.6	8566.4	8676.2	8746.0	8779.3
20°	7598.7	7612.1	7831.5	8194.0	8543.2	8809.3	8909.0	8875.7	8905.6	8958.8	8998.8
22.5°	7991.1	7997.8	8243.9	8636.2	9002.1	9294.7	9361.2	9224.9	9141.8	9178.4	9204.9
25°	8446.7	8490.0	8736.1	9138.4	9514.3	9793.6	9823.5	9617.3	9411.1	9421.1	9437.7
27.5°	9002.1	9042.0	9291.4	9690.5	10072.9	10315.7	10312.3	10036.3	9733.7	9657.2	9680.5
30°	9604.0	9647.2	9903.3	10315.7	10671.5	10884.3	10837.7	10508.5	10076.3	9933.2	9949.9
32.5°	10319.0	10345.6	10605.0	11017.3	11346.5	11516.2	11419.7	11014.0	10475.3	10312.3	10352.2
35°	11183.6	11223.5	11416.3	11805.4	12094.8	12234.5	12071.5	11592.6	10987.4	10804.5	10831.1
37.5°	12171.3	12144.7	12364.2	12710.0	12949.4	13035.9	12813.1	12244.4	11572.7	11356.5	11396.5
40°	13202.2	13188.9	13428.3	13760.8	13890.6	13943.8	13614.6	12992.7	12247.7	12014.9	12091.4
42.5°	14136.6	14126.7	14449.2	14818.3	14974.6	14914.8	14499.1	13787.5	13029.3	12763.2	12829.7
45°	14884.8	14871.5	15267.3	15786.1	16092.0	15992.3	15433.5	14665.4	13820.7	13544.7	13607.9
47.5°	15460.2	15466.8	15892.5	16534.3	17069.7	17106.3	16388.0	15559.9	14692.0	14379.4	14472.5
50°	15875.8	15895.8	16351.4	17063.1	17794.7	18117.3	17362.4	16477.8	15593.2	15240.7	15347.1
52.5°	15978.9	16015.5	16564.2	17399.0	18260.3	18875.5	18353.3	17359.0	16447.9	16112.0	16198.5
55°	15430.2	15503.4	16198.5	17372.3	18546.2	19374.2	19224.6	18253.6	17309.2	16963.3	17059.7
57.5°	14169.9	14273.0	15084.4	16617.4	18483.0	19716.8	19899.7	19111.5	18170.5	17837.9	17914.4
60°	12404.0	12527.1	13305.2	14978.0	17591.8	19843.2	20375.3	19946.3	18961.9	18639.3	18709.2
62.5°	9740.4	9900.0	10831.1	12793.1	15709.6	19254.5	20781.0	20701.1	19673.5	19271.2	19317.8
65°	6248.6	6418.1	7399.2	9717.1	13198.8	17452.2	20907.3	21436.0	20425.2	19863.2	19933.0
67.5°	3767.8	3844.3	4329.8	5889.4	9647.2	14735.2	19836.5	22250.8	21303.1	20604.8	20658.0
70°	2411.0	2454.2	2743.5	3458.6	5453.8	10751.3	17182.8	22403.8	22367.2	21366.2	21359.6
72.5°	1636.1	1649.4	1725.9	2048.5	3086.1	6108.9	12673.4	20282.1	23032.3	22347.3	22240.9
75°	1197.2	1270.4	1393.4	1449.9	1752.5	3052.8	7262.8	14249.7	19410.8	19710.1	18985.2
77.5°	891.2	894.5	1064.2	1130.7	1250.4	1626.2	3072.7	7954.5	12051.5	12653.4	11286.7
80°	754.9	714.9	711.7	911.2	941.2	1014.2	1373.4	2746.9	4316.5	2617.1	1978.7
82.5°	628.5	585.3	528.8	711.7	641.9	621.9	595.2	1117.4	1373.4	675.1	575.3
85°	439.0	419.0	399.0	465.6	365.8	312.6	286.0	522.1	578.6	286.0	252.8
87.5°	189.5	196.2	199.6	206.2	152.9	109.8	109.8	146.4	146.4	113.1	83.1
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)