

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: P970363

Luminaire Tested: **NAV-SB6B-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970363
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-SB6B-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34624.5 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 220.4
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



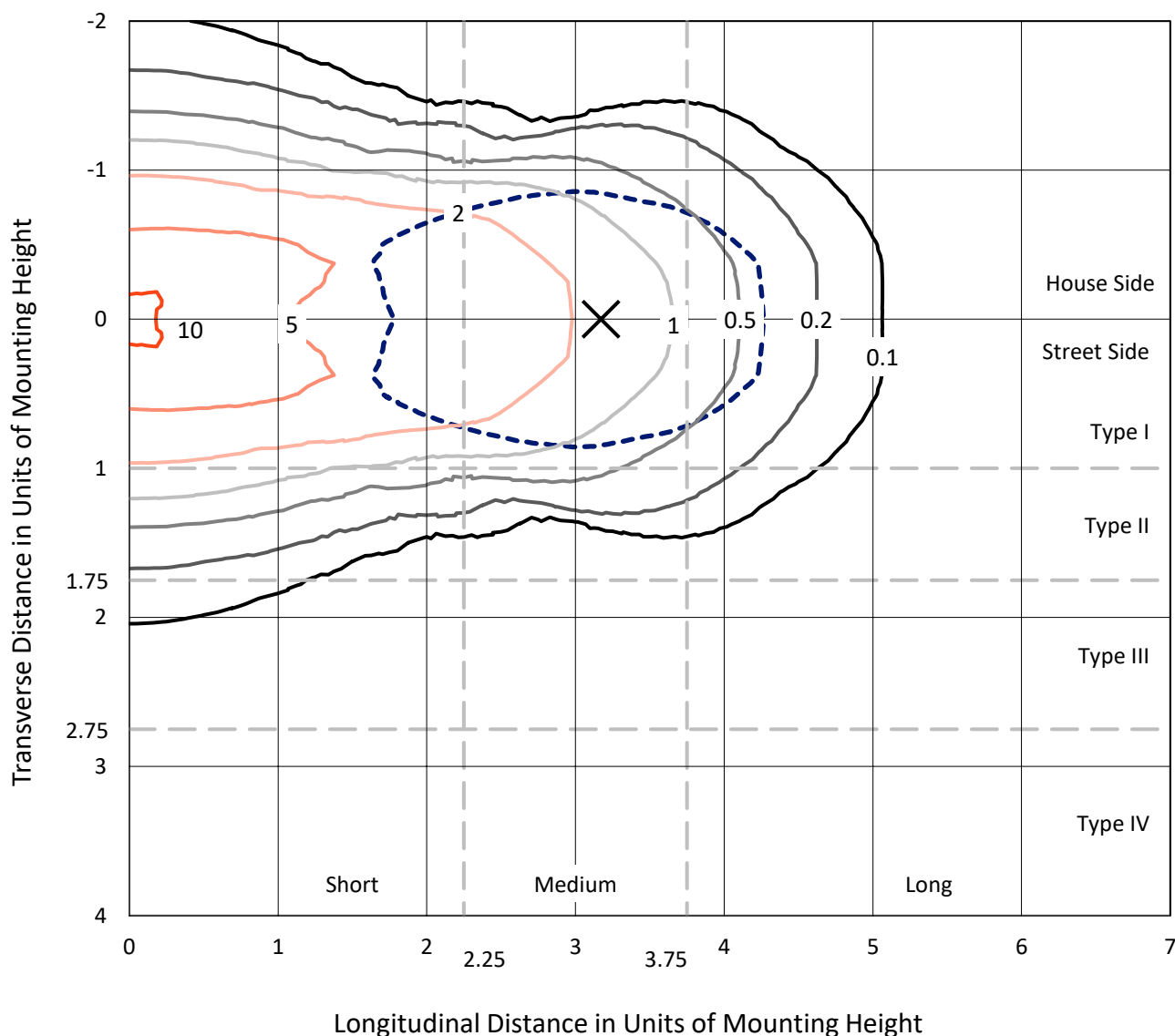
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

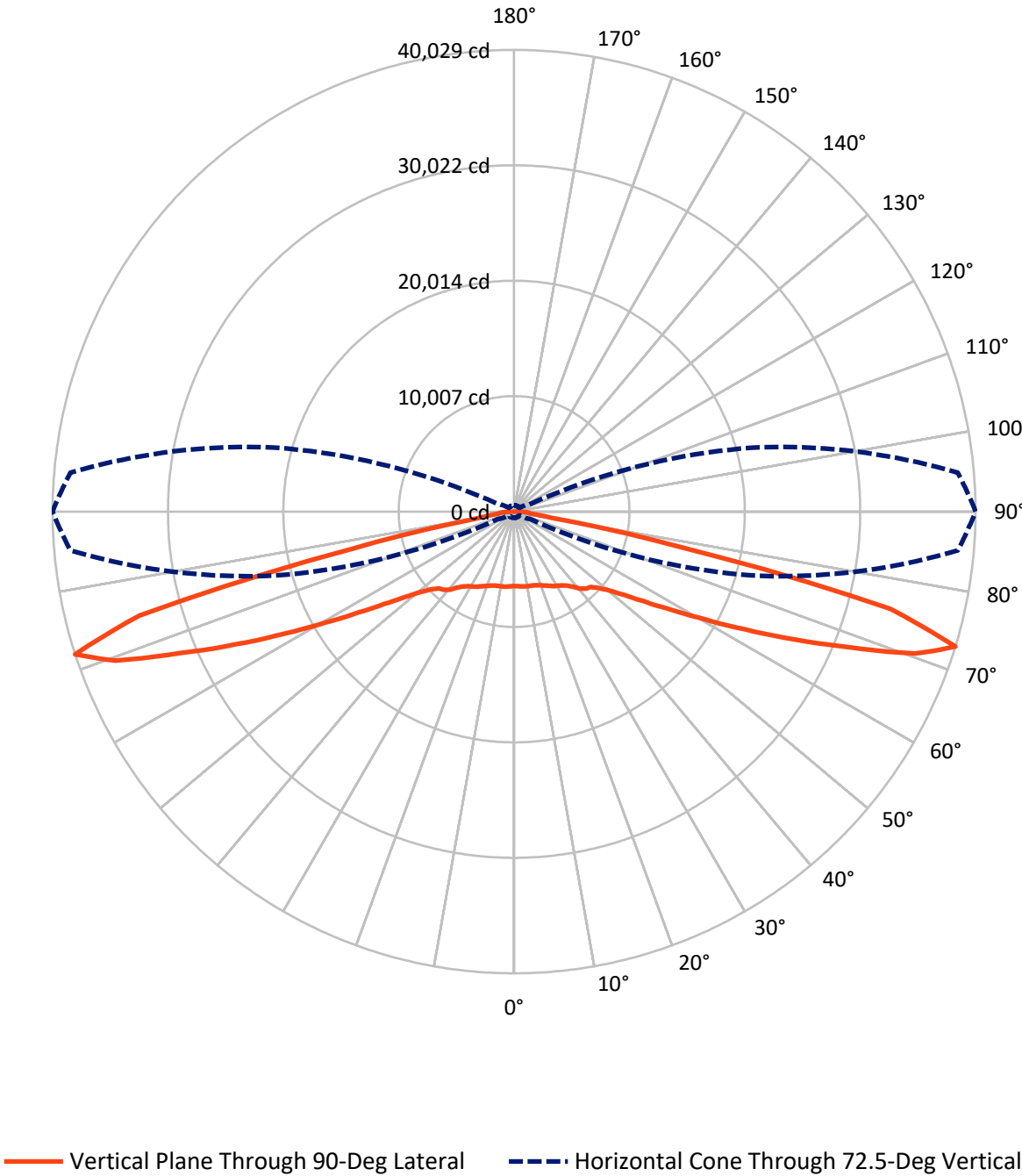


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17312.3	0.0	17312.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17312.3	0.0	17312.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34624.5	0.0	34624.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.3	1.8
10°-20°	1918.2	5.5
20°-30°	3198.4	9.2
30°-40°	4398.7	12.7
40°-50°	5372.0	15.5
50°-60°	6213.3	17.9
60°-70°	7408.4	21.4
70°-80°	5170.6	14.9
80°-90°	317.6	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°	34624.5	100.0
0°-180°	34624.5	100.0

Coefficient of Utilization



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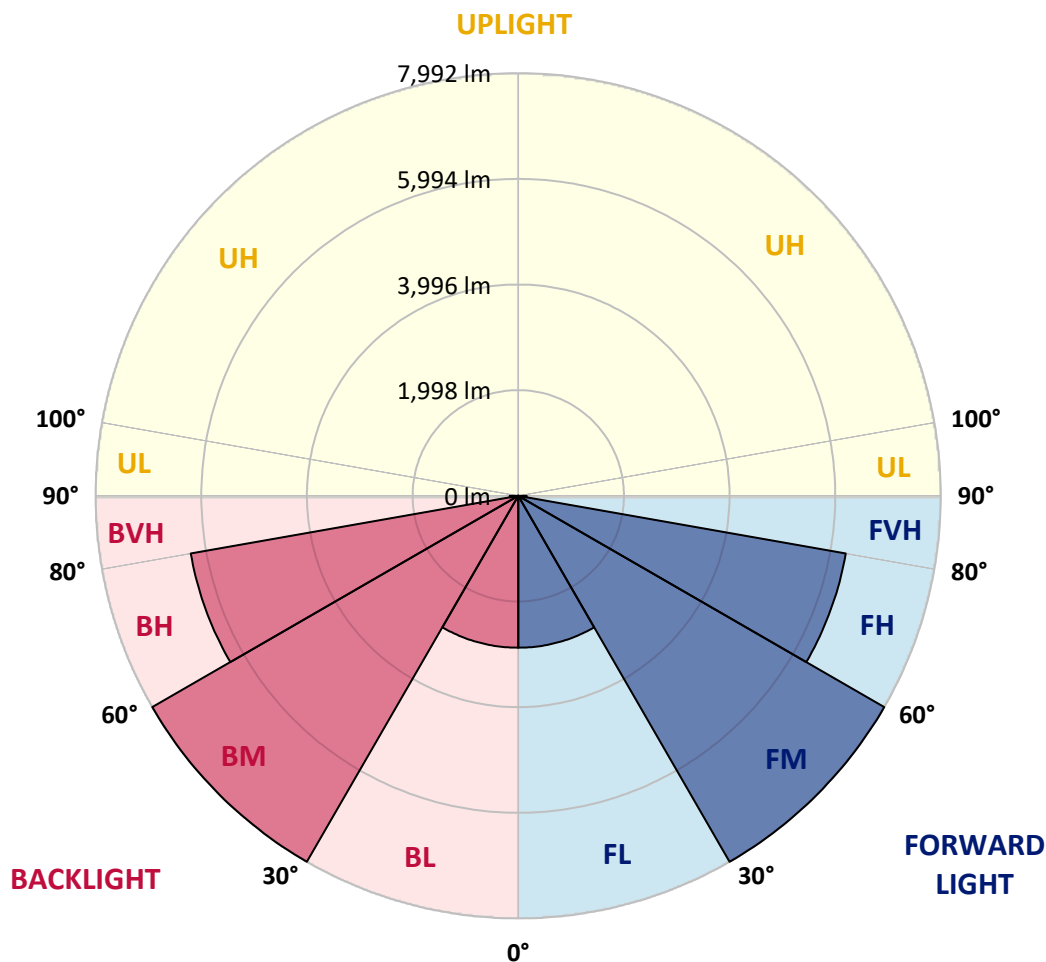
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2871.9	8.3			
FM	(30°-60°)	7992.1	23.1			
FH	(60°-80°)	6289.5	18.2			G3/7500
FVH	(80°-90°)	158.8	0.5			G2/225
BL	(0°-30°)	2871.9	8.3	B4/5000		
BM	(30°-60°)	7992.1	23.1	B4/8500		
BH	(60°-80°)	6289.5	18.2	B5		G5
BVH	(80°-90°)	158.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6469.9	6469.9	6469.9	6469.9	6469.9	6469.9	6469.9	6469.9	6469.9	6469.9	6469.9
2.5°	6475.4	6482.8	6482.8	6477.3	6490.2	6479.1	6479.1	6473.6	6479.1	6473.6	6473.6
5°	6508.6	6517.8	6521.5	6519.6	6536.2	6527.0	6527.0	6519.6	6521.5	6515.9	6515.9
7.5°	6571.2	6584.1	6591.4	6600.6	6624.6	6613.5	6606.1	6584.1	6574.9	6560.1	6560.1
10°	6591.4	6606.1	6630.0	6677.9	6733.1	6735.0	6712.8	6657.7	6615.4	6582.2	6576.7
12.5°	6528.8	6549.0	6598.7	6696.3	6819.5	6869.2	6834.3	6742.2	6659.5	6600.6	6591.4
15°	6449.7	6471.7	6547.3	6694.5	6876.6	6992.6	6988.9	6867.4	6735.0	6642.9	6628.2
17.5°	6326.4	6348.5	6457.1	6663.2	6920.8	7112.2	7163.7	7038.6	6852.7	6729.4	6709.1
20°	6103.8	6124.0	6274.9	6563.8	6935.6	7239.2	7373.4	7263.0	7031.2	6863.7	6832.4
22.5°	5814.8	5846.2	6022.8	6392.6	6900.5	7371.6	7612.7	7537.2	7239.2	7007.3	6965.0
25°	5505.7	5538.8	5744.9	6182.9	6810.4	7467.3	7896.1	7848.2	7474.7	7185.8	7126.9
27.5°	5238.9	5273.8	5498.3	5974.9	6670.5	7504.1	8175.8	8199.7	7759.9	7382.7	7320.1
30°	5029.2	5062.3	5301.5	5807.5	6490.2	7467.3	8420.5	8586.1	8050.7	7553.8	7463.6
32.5°	4799.0	4841.4	5093.5	5603.3	6276.7	7379.0	8634.0	9003.8	8387.4	7737.8	7623.7
35°	4508.4	4547.0	4812.0	5323.5	5997.1	7237.3	8812.4	9467.5	8869.5	8017.6	7890.6
37.5°	4155.0	4191.8	4455.0	4973.9	5719.2	7038.6	8948.7	9990.2	9443.6	8420.5	8251.2
40°	3799.9	3834.8	4081.4	4583.8	5386.1	6784.6	8996.4	10501.7	10102.4	8974.4	8794.1
42.5°	3474.2	3505.5	3731.8	4199.2	5012.6	6460.8	8933.9	10947.0	10693.1	9360.8	9129.0
45°	3174.2	3201.9	3402.4	3838.5	4624.3	6067.0	8746.2	11425.5	11396.1	9636.8	9324.0
47.5°	2832.0	2859.5	3067.5	3488.9	4236.0	5605.1	8427.9	11896.6	12373.2	10262.5	9901.8
50°	2414.3	2438.2	2651.7	3086.0	3833.0	5113.7	7986.2	12266.4	13606.1	11210.2	10757.5
52.5°	1919.3	1945.0	2153.0	2587.2	3354.6	4585.6	7404.7	12507.5	15030.3	12594.0	12036.4
55°	1427.9	1446.4	1626.7	2016.8	2762.1	3983.9	6676.0	12575.5	16646.0	14485.6	13788.2
57.5°	1036.0	1047.0	1163.0	1453.8	2094.1	3231.3	5790.9	12398.9	18568.9	16911.0	16033.2
60°	839.1	842.8	877.7	1006.6	1455.6	2381.2	4721.8	11791.7	20655.6	20037.3	18931.4
62.5°	761.8	761.8	771.0	806.0	984.5	1571.5	3428.2	10533.0	22893.3	23988.2	22506.8
65°	708.5	708.5	712.2	728.7	776.5	1001.0	2164.0	8483.1	24779.4	28616.2	26742.9
67.5°	660.6	662.5	660.6	666.1	693.7	739.7	1255.0	5859.0	25795.1	33411.5	31389.2
70°	610.9	614.6	605.4	605.4	627.5	629.3	785.8	3212.9	24952.4	37430.4	36898.6
72.5°	552.1	557.6	542.8	539.2	555.8	548.4	590.7	1542.0	21423.0	38630.2	40028.7
75°	500.5	507.9	474.8	465.6	465.6	460.0	480.3	791.3	13904.1	31512.5	33706.0
77.5°	454.5	469.2	415.8	386.4	379.0	362.5	392.0	484.0	6081.6	14794.7	14487.5
80°	375.4	395.6	342.2	307.3	294.4	276.0	309.1	338.6	1808.8	3435.6	3290.1
82.5°	279.7	288.9	242.9	218.9	208.0	195.1	231.9	235.5	588.9	1216.4	1374.6
85°	178.5	182.1	149.0	128.8	123.3	117.8	147.2	128.8	224.5	894.3	1299.2
87.5°	62.5	71.8	57.1	51.6	55.2	46.0	68.1	38.6	62.5	631.2	782.1
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)