

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: P970890

Luminaire Tested: **NAV-SB6C-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970890
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-SB6C-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46050.2 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

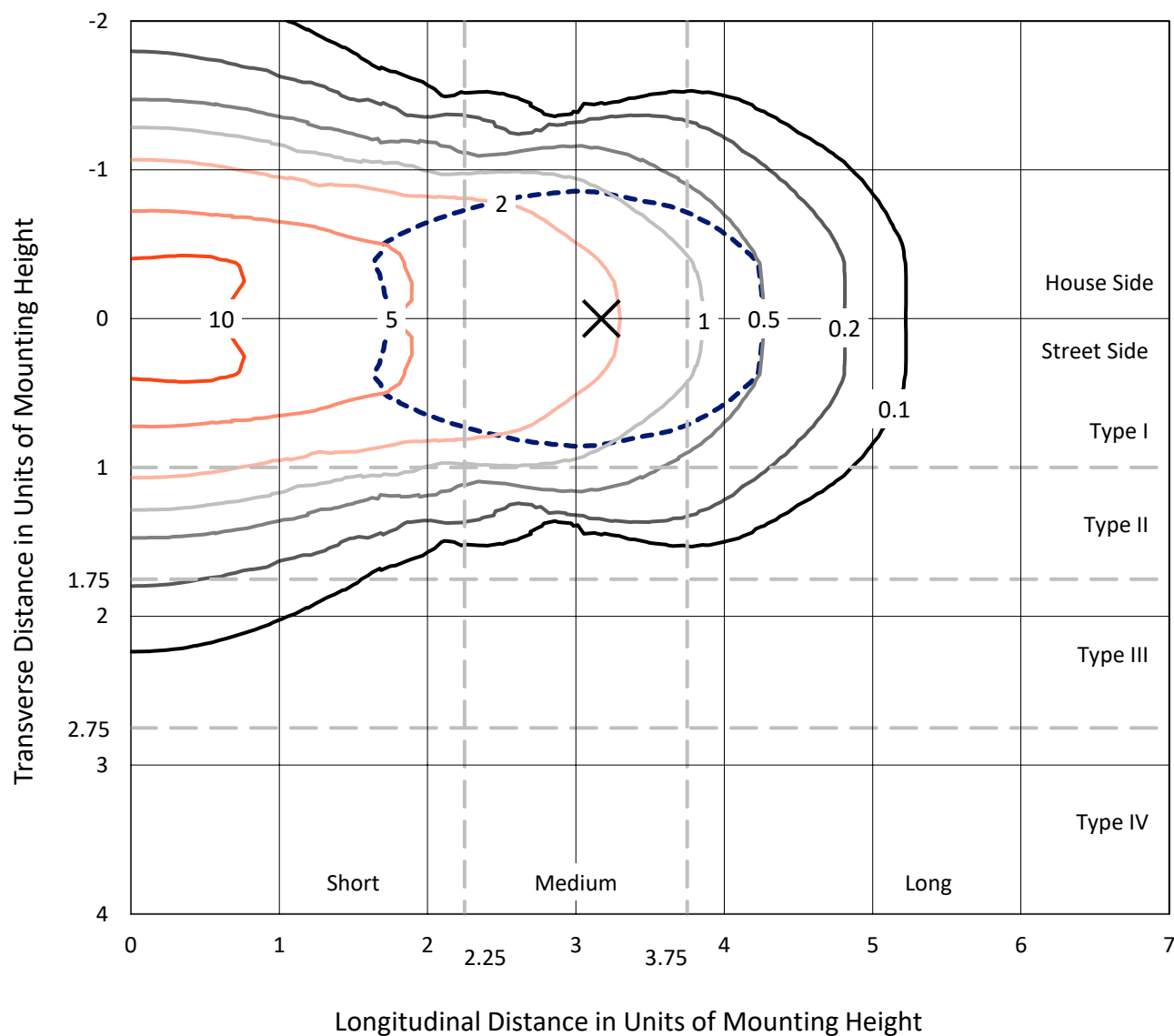
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

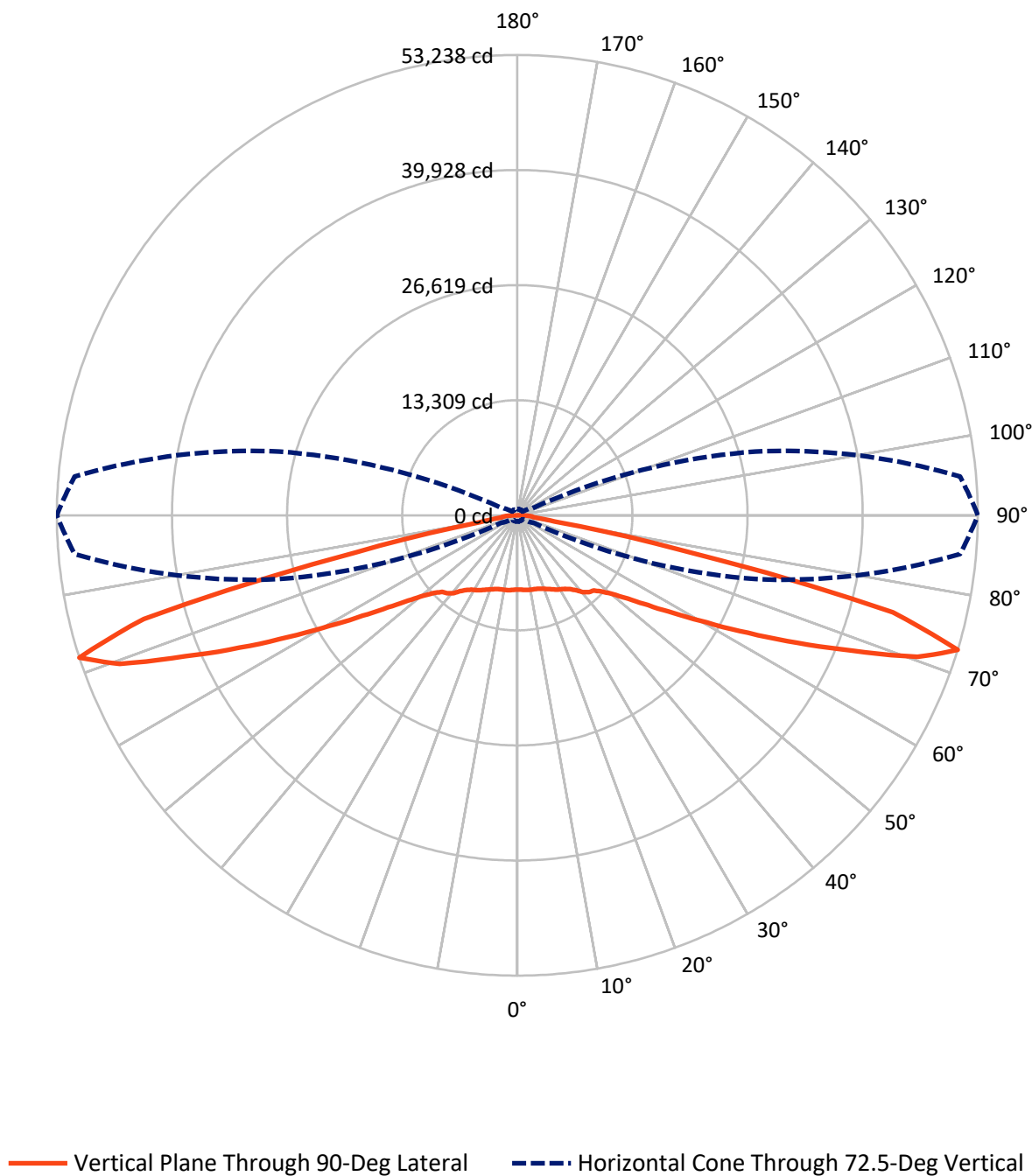
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	23025.1	0.0	23025.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23025.1	0.0	23025.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	46050.2	0.0	46050.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.4	1.8
10°-20°	2551.1	5.5
20°-30°	4253.8	9.2
30°-40°	5850.3	12.7
40°-50°	7144.8	15.5
50°-60°	8263.7	17.9
60°-70°	9853.1	21.4
70°-80°	6876.8	14.9
80°-90°	422.4	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°	46050.2	100.0
0°-180°	46050.2	100.0

Coefficient of Utilization



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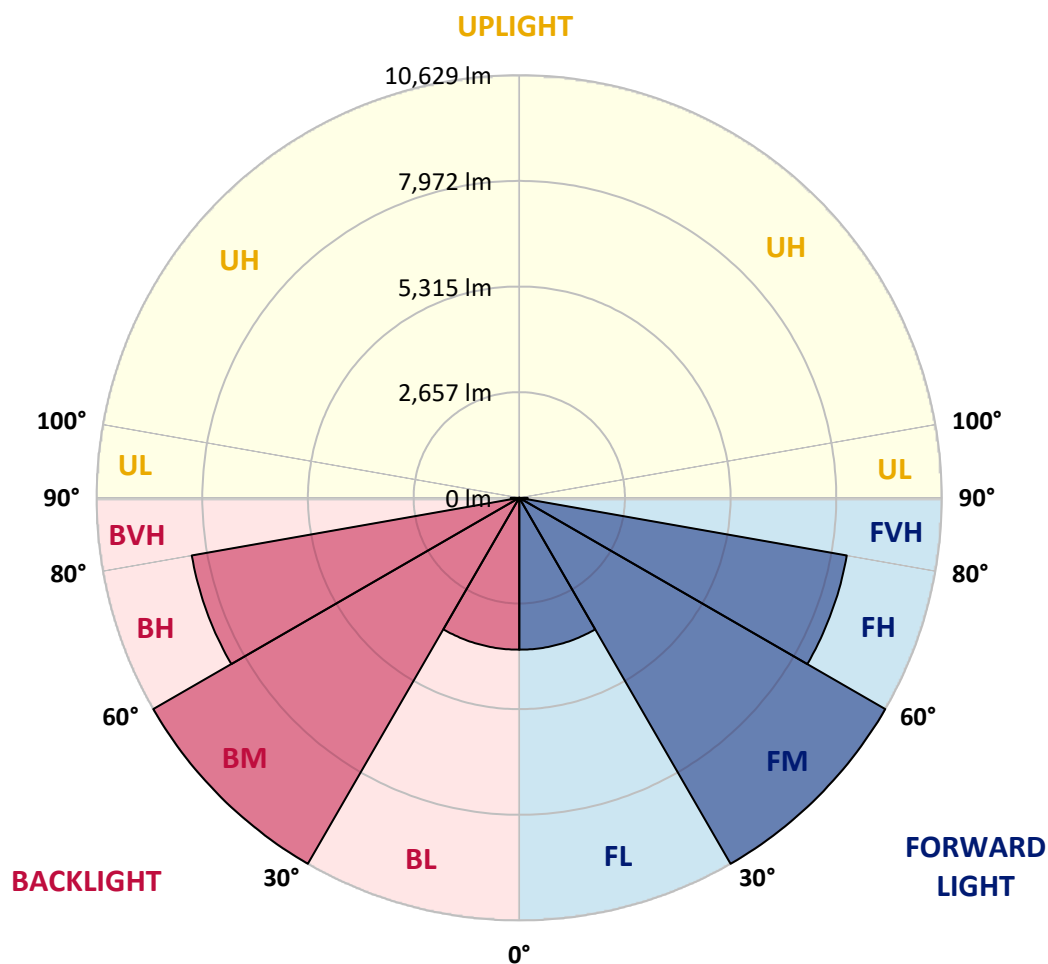
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3819.6	8.3			
FM	(30°-60°)	10629.3	23.1			
FH	(60°-80°)	8364.9	18.2			G4/12000
FVH	(80°-90°)	211.2	0.5			G2/225
BL	(0°-30°)	3819.6	8.3	B4/5000		
BM	(30°-60°)	10629.3	23.1	B5		
BH	(60°-80°)	8364.9	18.2	B5		G5
BVH	(80°-90°)	211.2	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°	8605.0	8605.0	8605.0	8605.0	8605.0	8605.0	8605.0	8605.0	8605.0	8605.0	8605.0
2.5°	8612.3	8622.1	8622.1	8614.7	8631.8	8617.2	8617.2	8609.9	8617.2	8609.9	8609.9
5°	8656.3	8668.6	8673.4	8671.1	8693.0	8680.8	8680.8	8671.1	8673.4	8666.2	8666.2
7.5°	8739.6	8756.7	8766.5	8778.7	8810.5	8795.8	8786.1	8756.7	8744.5	8724.9	8724.9
10°	8766.5	8786.1	8817.9	8881.5	8954.9	8957.4	8928.1	8854.6	8798.3	8754.2	8746.9
12.5°	8683.3	8710.2	8776.3	8906.0	9069.9	9136.0	9089.5	8967.2	8857.0	8778.7	8766.5
15°	8578.0	8607.4	8707.8	8903.6	9145.9	9300.0	9295.1	9133.6	8957.4	8835.0	8815.4
17.5°	8414.0	8443.4	8587.9	8861.9	9204.6	9459.1	9527.6	9361.2	9114.0	8950.0	8923.1
20°	8117.9	8144.9	8345.6	8729.8	9224.2	9627.9	9806.6	9659.8	9351.4	9128.6	9087.1
22.5°	7733.7	7775.3	8010.3	8502.2	9177.6	9804.1	10124.7	10024.4	9627.9	9319.6	9263.3
25°	7322.5	7366.6	7640.7	8223.2	9057.7	9931.4	10501.6	10438.1	9941.3	9557.0	9478.7
27.5°	6967.6	7014.2	7312.8	7946.6	8871.7	9980.4	10873.7	10905.5	10320.5	9818.9	9735.7
30°	6688.6	6732.7	7050.9	7723.9	8631.8	9931.4	11199.2	11419.4	10707.3	10046.4	9926.5
32.5°	6382.8	6439.0	6774.3	7452.3	8348.0	9814.0	11483.1	11975.0	11155.1	10291.2	10139.5
35°	5996.0	6047.5	6399.9	7080.3	7976.0	9625.5	11720.5	12591.7	11796.3	10663.2	10494.4
37.5°	5526.2	5575.1	5925.1	6615.2	7606.4	9361.2	11901.6	13286.8	12559.9	11199.2	10974.1
40°	5053.9	5100.3	5428.3	6096.4	7163.4	9023.5	11965.2	13967.2	13436.1	11935.8	11696.0
42.5°	4620.6	4662.2	4963.3	5584.9	6666.6	8592.7	11882.0	14559.4	14221.7	12449.8	12141.4
45°	4221.7	4258.5	4525.2	5105.2	6150.2	8069.0	11632.3	15195.7	15156.6	12816.9	12400.9
47.5°	3766.5	3803.3	4079.8	4640.2	5633.8	7454.7	11209.0	15822.3	16456.2	13649.0	13169.3
50°	3210.9	3242.8	3526.6	4104.2	5097.8	6801.3	10621.6	16314.2	18095.9	14909.3	14307.4
52.5°	2552.7	2586.9	2863.4	3441.0	4461.5	6098.9	9848.2	16634.8	19990.2	16749.8	16008.2
55°	1899.1	1923.6	2163.5	2682.3	3673.5	5298.5	8879.1	16725.3	22139.0	19265.7	18338.2
57.5°	1377.9	1392.6	1546.7	1933.5	2785.1	4297.6	7701.8	16490.4	24696.5	22491.4	21324.0
60°	1116.0	1120.9	1167.4	1338.8	1935.9	3166.9	6280.0	15682.8	27471.7	26649.5	25178.6
62.5°	1013.2	1013.2	1025.4	1071.9	1309.3	2090.1	4559.4	14008.8	30447.7	31903.9	29933.8
65°	942.3	942.3	947.1	969.1	1032.8	1331.4	2878.1	11282.4	32956.3	38059.1	35567.7
67.5°	878.6	881.1	878.6	885.9	922.7	983.8	1669.1	7792.5	34307.3	44436.9	41747.3
70°	812.5	817.4	805.1	805.1	834.6	837.0	1045.0	4273.1	33186.3	49782.0	49074.7
72.5°	734.2	741.6	722.0	717.1	739.1	729.3	785.6	2050.9	28492.3	51377.7	53237.7
75°	665.6	675.5	631.4	619.2	619.2	611.8	638.8	1052.4	18492.3	41911.2	44828.5
77.5°	604.5	624.1	553.1	513.9	504.2	482.2	521.3	643.7	8088.6	19676.9	19268.2
80°	499.3	526.2	455.2	408.7	391.5	367.2	411.1	450.3	2405.8	4569.2	4375.9
82.5°	372.0	384.3	323.1	291.2	276.5	259.4	308.3	313.2	783.2	1617.8	1828.2
85°	237.4	242.3	198.2	171.3	164.0	156.6	195.8	171.3	298.6	1189.4	1727.8
87.5°	83.2	95.4	75.8	68.6	73.4	61.2	90.5	51.4	83.2	839.5	1040.2
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)