

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: P970286

Luminaire Tested: **NAV-SB6B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34018.7 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

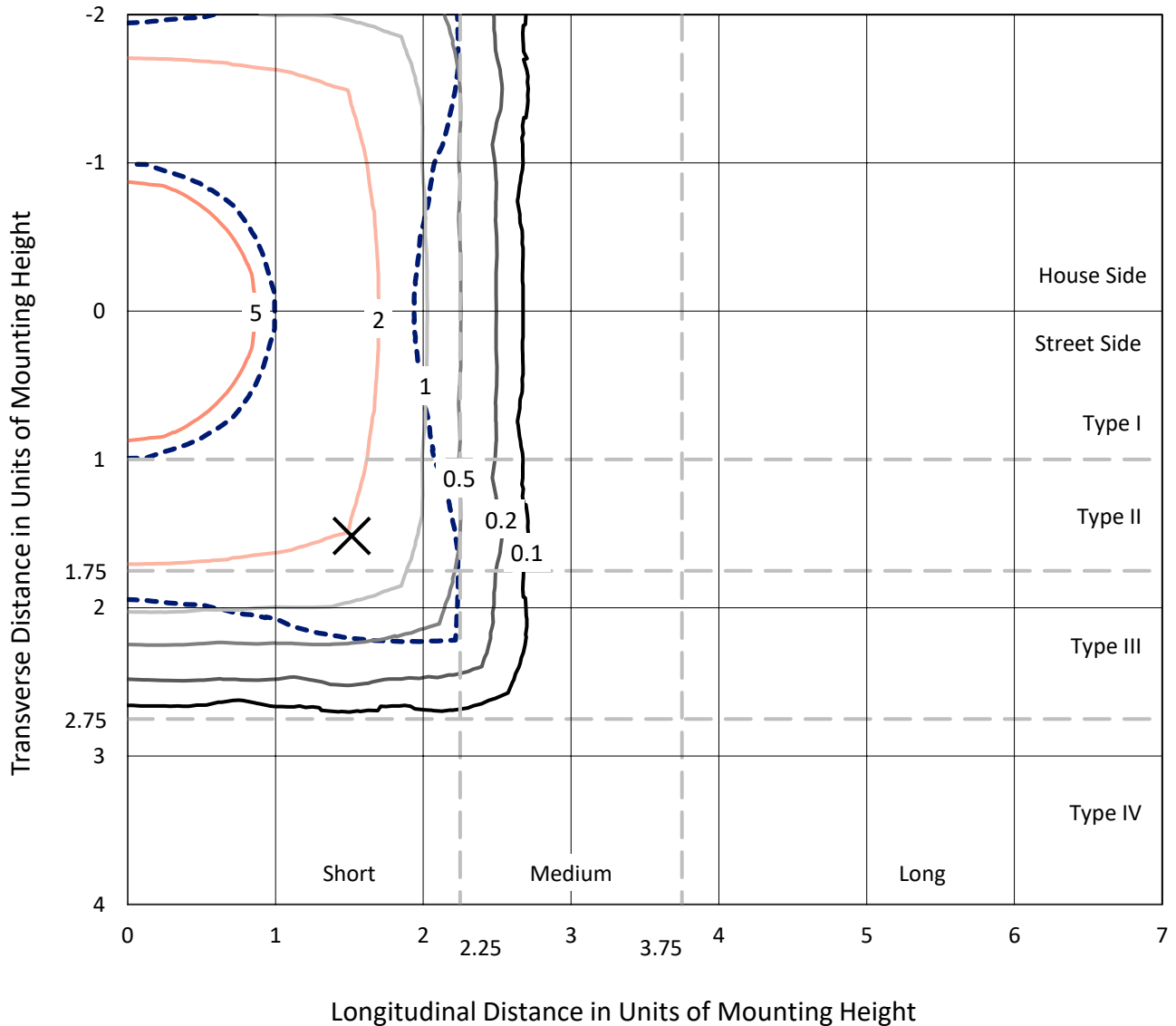
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

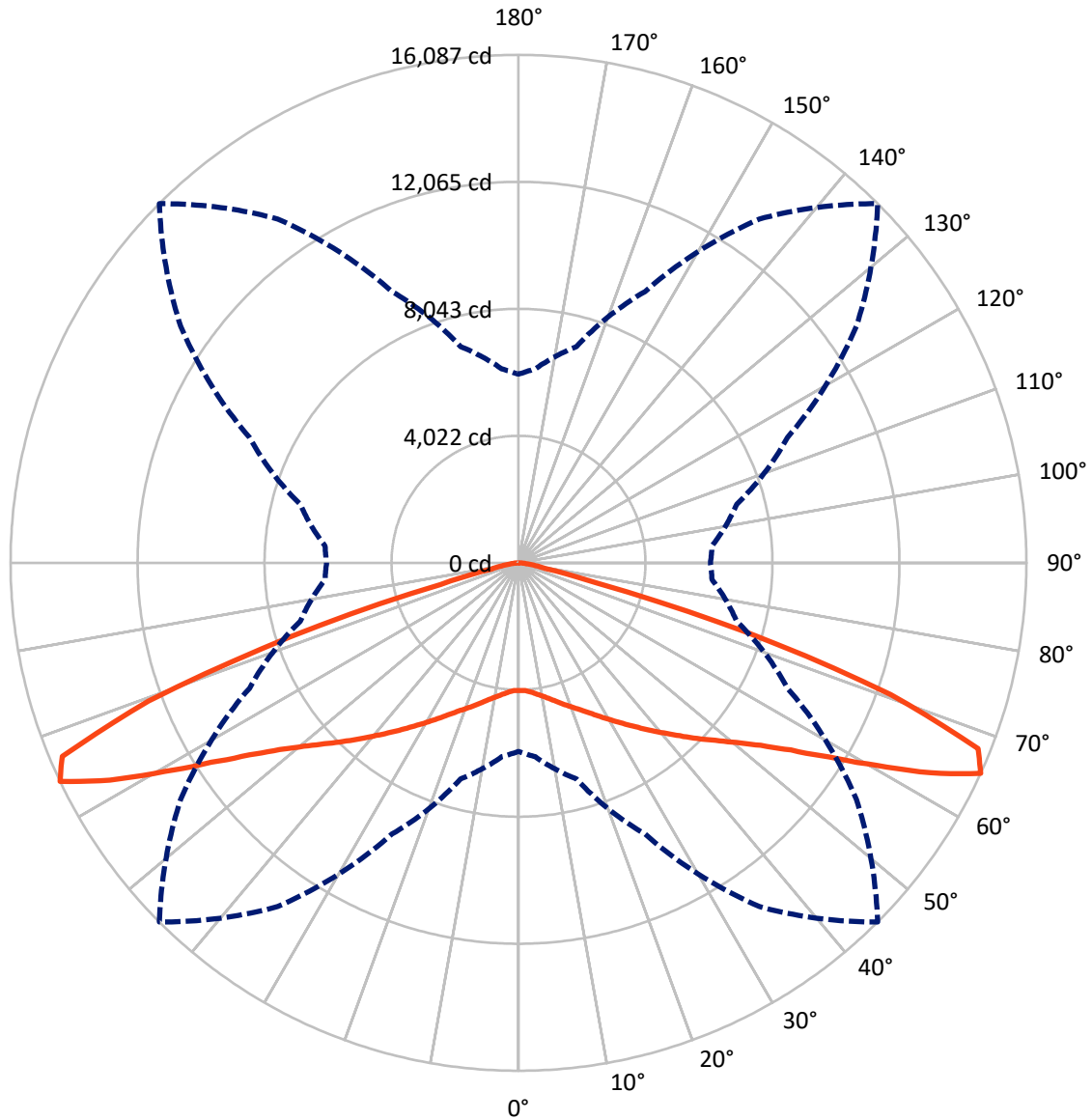
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17009.4	0.0	17009.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17009.4	0.0	17009.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34018.7	0.0	34018.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	1.2
10°-20°	1303.8	3.8
20°-30°	2461.7	7.2
30°-40°	4030.9	11.8
40°-50°	6250.0	18.4
50°-60°	9232.5	27.1
60°-70°	8788.5	25.8
70°-80°	1418.1	4.2
80°-90°	133.7	0.4
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°	34018.7	100.0
0°-180°	34018.7	100.0

Coefficient of Utilization



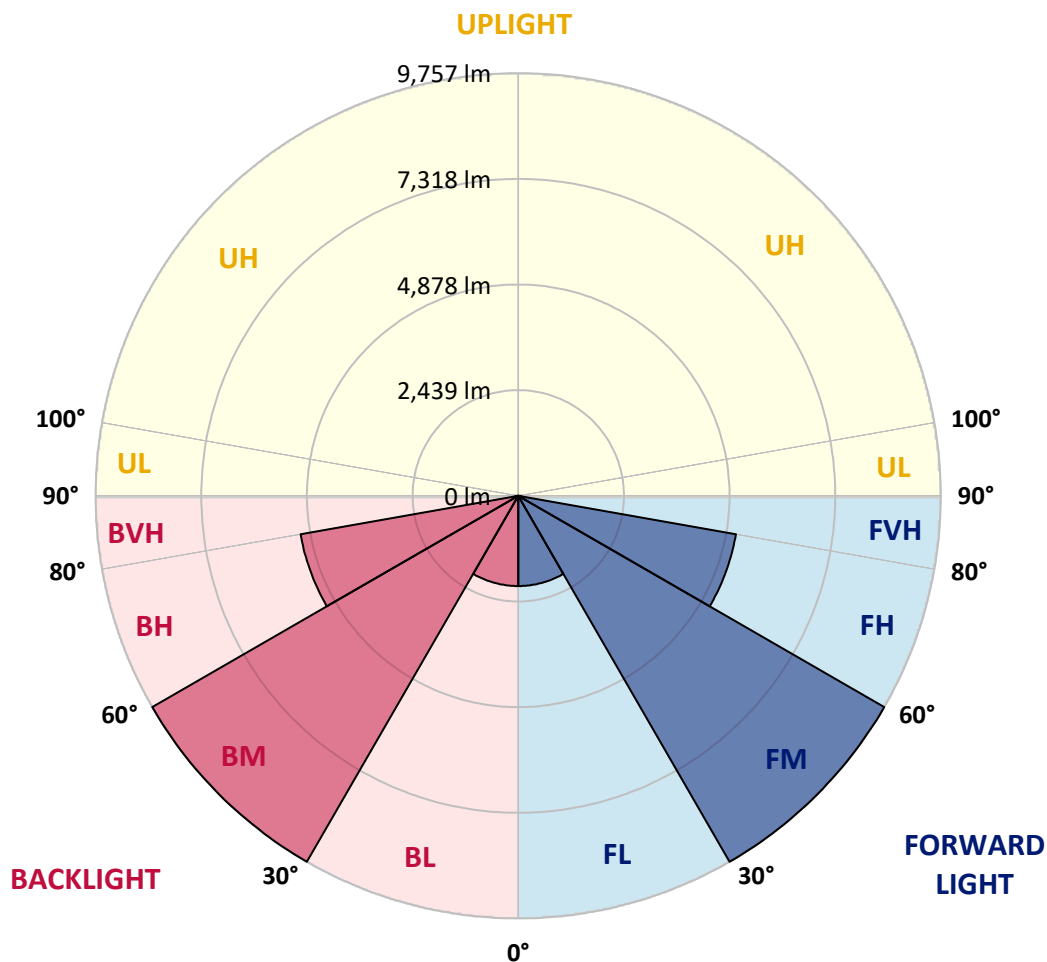
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.5	6.1			
FM (30°-60°)	9756.7	28.7			
FH (60°-80°)	5103.3	15.0			G3/7500
FVH (80°-90°)	66.8	0.2			G1/100
BL (0°-30°)	2082.5	6.1	B3/2500		
BM (30°-60°)	9756.7	28.7	B5		
BH (60°-80°)	5103.3	15.0	B5		G3/7500
BVH (80°-90°)	66.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4048.5	4048.5	4048.5	4048.5	4048.5	4048.5	4048.5	4048.5	4048.5	4048.5	4048.5
2.5°	4075.9	4062.2	4072.4	4063.9	4057.1	4050.3	4053.7	4065.7	4070.8	4072.4	4072.4
5°	4130.5	4118.6	4123.7	4123.7	4111.7	4108.3	4110.0	4118.6	4128.8	4128.8	4128.8
7.5°	4219.2	4207.3	4219.2	4212.4	4202.2	4198.8	4197.1	4203.9	4219.2	4219.2	4214.1
10°	4326.7	4313.1	4320.0	4316.6	4304.6	4299.5	4297.7	4308.0	4321.7	4320.0	4316.6
12.5°	4444.5	4429.2	4437.7	4427.5	4424.1	4419.0	4419.0	4417.2	4425.7	4419.0	4422.4
15°	4576.0	4565.8	4569.1	4562.3	4567.4	4564.0	4550.4	4543.5	4547.0	4536.8	4538.4
17.5°	4731.3	4707.4	4719.3	4715.9	4715.9	4722.8	4700.5	4692.0	4698.9	4688.7	4697.2
20°	4910.5	4886.6	4891.7	4884.9	4876.3	4883.2	4855.9	4862.7	4867.8	4861.1	4876.3
22.5°	5106.8	5076.1	5074.4	5077.7	5059.0	5060.7	5042.0	5059.0	5069.2	5050.5	5069.2
25°	5308.2	5275.8	5297.9	5289.4	5265.5	5270.7	5257.0	5274.0	5282.6	5258.7	5286.0
27.5°	5521.6	5499.3	5519.8	5525.0	5495.9	5516.4	5495.9	5511.3	5519.8	5484.0	5511.3
30°	5770.7	5748.5	5767.4	5781.0	5746.9	5779.3	5762.2	5772.5	5774.1	5731.5	5757.1
32.5°	6042.2	6008.0	6055.8	6062.6	6025.1	6064.3	6042.2	6055.8	6064.3	6006.3	6045.6
35°	6373.2	6330.6	6385.2	6376.6	6344.2	6376.6	6356.2	6376.6	6397.1	6327.1	6369.9
37.5°	6729.9	6685.6	6743.7	6728.3	6697.6	6719.7	6707.8	6721.4	6753.8	6678.8	6724.8
40°	7122.5	7067.9	7146.4	7119.1	7090.1	7086.7	7093.5	7102.0	7144.8	7061.1	7088.4
42.5°	7542.5	7484.3	7602.1	7559.5	7518.5	7491.2	7513.5	7530.5	7571.5	7477.6	7527.1
45°	8022.1	7955.4	8109.1	8057.8	7993.1	7936.7	7972.6	7998.2	8057.8	7945.2	8003.3
47.5°	8551.2	8476.0	8639.9	8624.6	8518.7	8395.9	8477.8	8551.2	8595.5	8459.0	8505.0
50°	9068.3	9010.3	9225.3	9244.2	9114.4	8942.0	9056.4	9167.3	9179.3	9000.0	9022.3
52.5°	9553.1	9495.0	9807.4	9925.2	9809.0	9604.2	9725.4	9838.1	9747.6	9515.5	9522.4
55°	9940.4	9892.7	10290.4	10594.2	10633.5	10464.5	10536.2	10532.8	10235.8	9879.1	9891.0
57.5°	10034.3	10027.6	10529.3	11172.8	11582.5	11602.9	11461.2	11099.4	10459.4	9979.7	9949.1
60°	9607.6	9650.4	10339.9	11475.0	12567.3	13021.3	12408.5	11376.0	10205.1	9539.4	9460.9
62.5°	8331.0	8443.6	9274.8	11106.3	13362.6	14653.0	13168.1	10956.0	9160.5	8291.7	8240.5
65°	5970.4	6166.7	7085.0	9478.0	13291.0	16086.8	13058.8	9401.1	7153.3	6151.3	6077.9
67.5°	2708.8	2908.4	3688.5	6489.3	11553.4	15697.6	11526.1	6557.5	3872.8	2918.7	2875.9
70°	981.4	1015.6	1266.5	2597.8	7383.7	12507.6	7699.5	2616.5	1346.6	1082.1	1068.5
72.5°	594.0	599.1	652.0	930.2	2565.4	7593.6	2674.5	960.9	665.6	590.6	600.8
75°	377.2	373.8	464.2	568.4	909.7	2561.9	954.1	568.4	462.6	421.6	425.0
77.5°	271.4	279.9	332.8	425.0	573.5	868.8	563.2	406.2	332.8	273.1	278.2
80°	203.2	208.3	242.4	331.1	402.8	541.1	358.4	300.4	250.9	170.7	175.8
82.5°	146.8	146.8	158.8	240.7	245.8	291.8	194.5	211.7	165.5	121.2	121.2
85°	87.0	85.4	99.0	143.4	128.0	107.5	88.8	129.8	104.1	75.1	73.4
87.5°	30.7	32.4	30.7	41.0	34.1	29.0	27.3	35.9	29.0	25.6	23.9
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)