

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: P971341

Luminaire Tested: **NAV-SB6D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59342.4 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

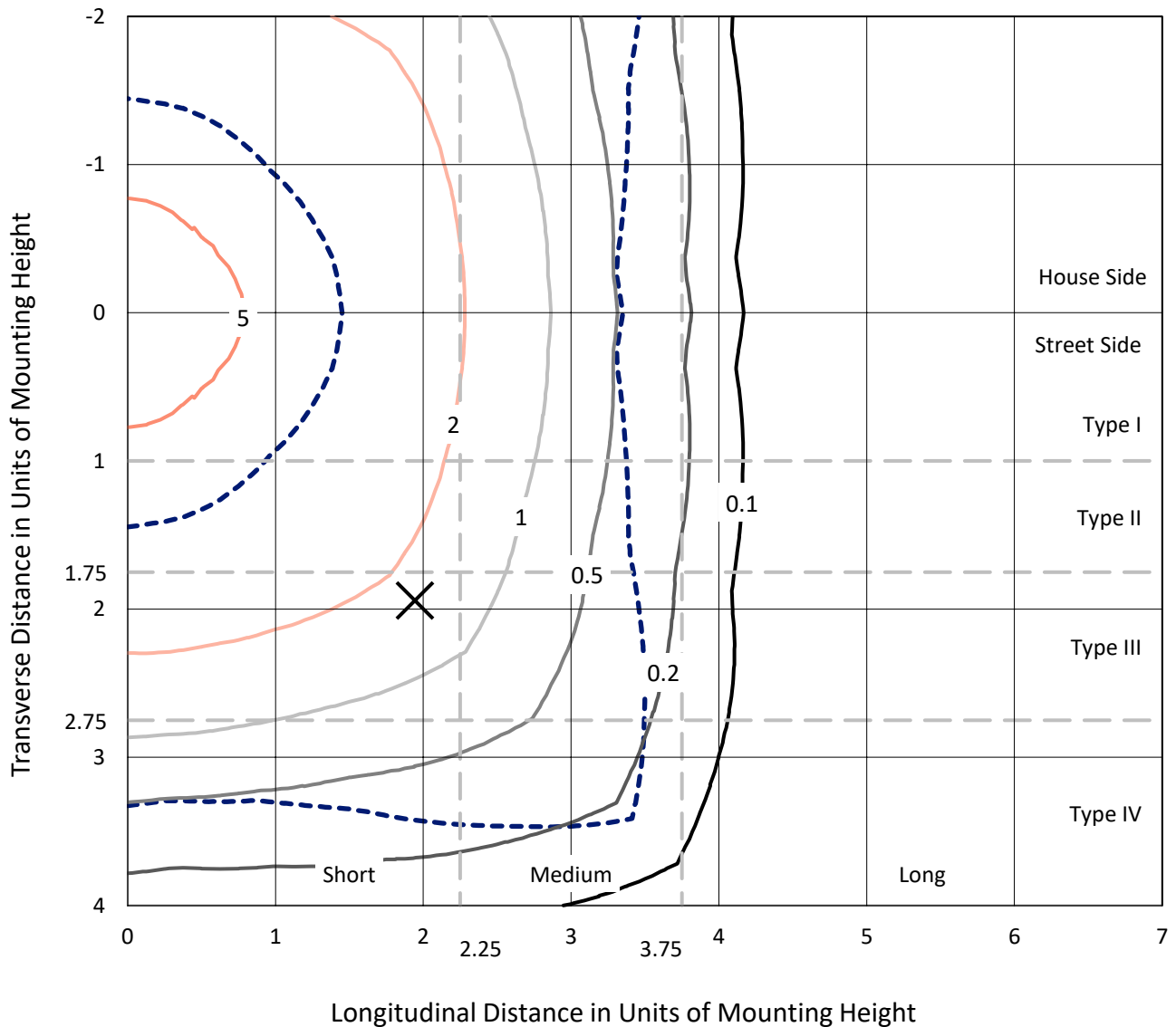
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

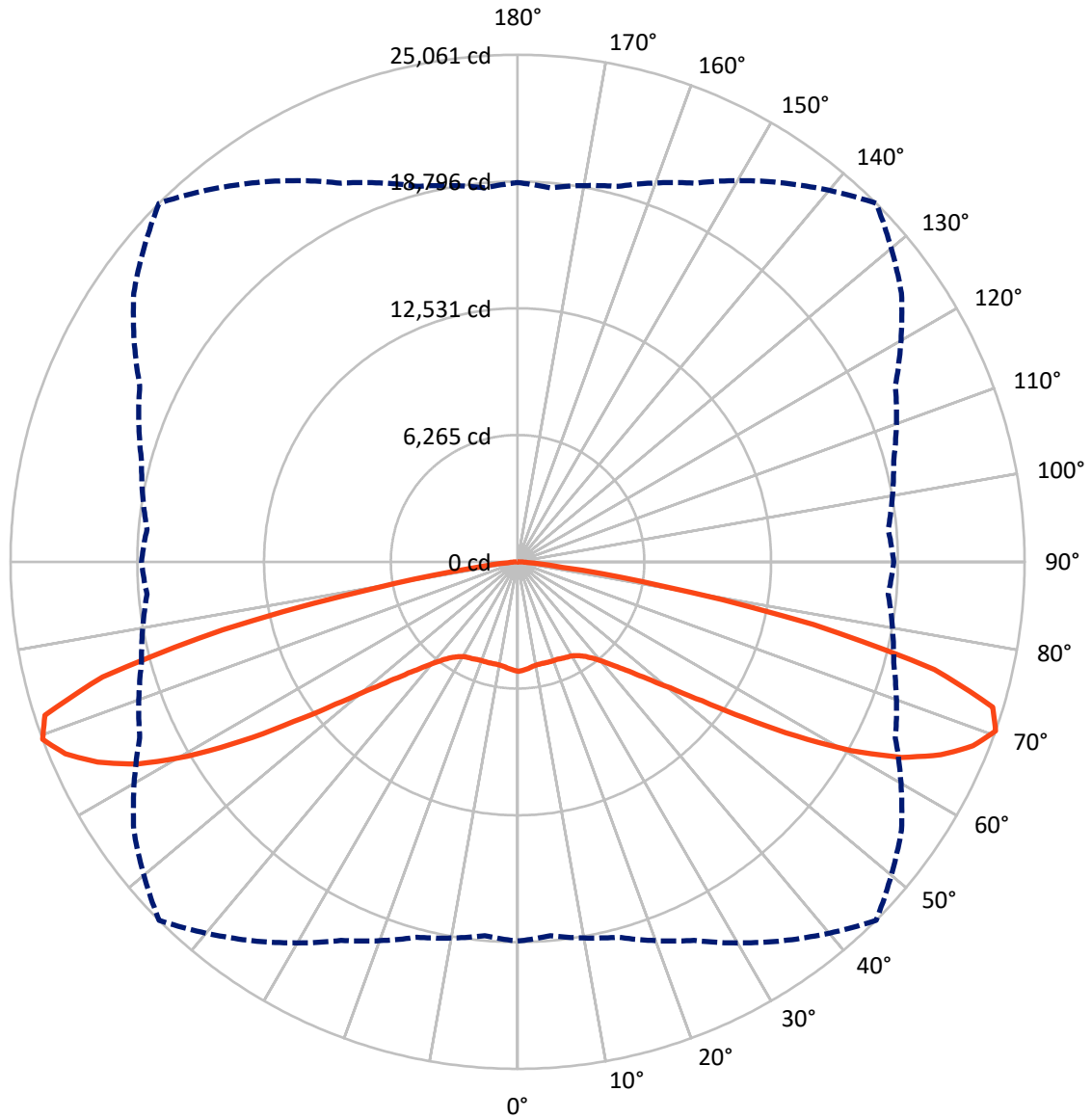
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29671.2	0.0	29671.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29671.2	0.0	29671.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	59342.4	0.0	59342.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.6	0.8
10°-20°	1478.6	2.5
20°-30°	2460.5	4.1
30°-40°	3721.1	6.3
40°-50°	6183.6	10.4
50°-60°	11668.2	19.7
60°-70°	19702.2	33.2
70°-80°	12946.4	21.8
80°-90°	678.3	1.1
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°	59342.4	100.0
0°-180°	59342.4	100.0

Coefficient of Utilization



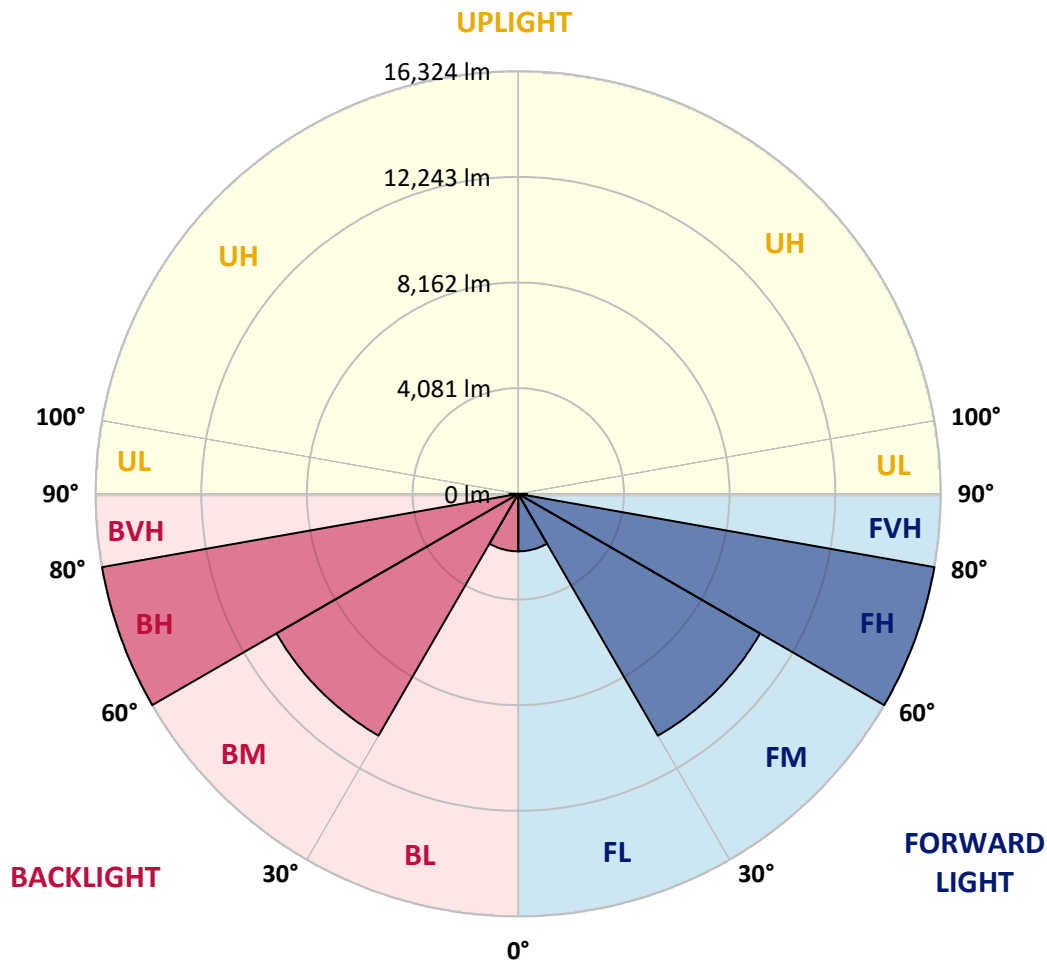
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2221.3	3.7			
FM (30°-60°)	10786.4	18.2			
FH (60°-80°)	16324.3	27.5			G5
FVH (80°-90°)	339.1	0.6			G3/500
BL (0°-30°)	2221.3	3.7	B3/2500		
BM (30°-60°)	10786.4	18.2	B5		
BH (60°-80°)	16324.3	27.5	B5		G5
BVH (80°-90°)	339.1	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5413.2	5413.2	5413.2	5413.2	5413.2	5413.2	5413.2	5413.2	5413.2	5413.2	5413.2
2.5°	5379.3	5394.7	5388.5	5376.2	5376.2	5367.0	5376.2	5382.4	5391.6	5397.8	5394.7
5°	5308.4	5320.7	5317.6	5308.4	5311.4	5302.2	5308.4	5317.6	5323.7	5326.8	5326.8
7.5°	5246.7	5259.0	5252.8	5237.4	5237.4	5228.1	5231.2	5240.5	5249.7	5252.8	5252.8
10°	5231.2	5243.6	5225.0	5200.4	5191.1	5178.8	5181.9	5191.1	5209.7	5218.9	5218.9
12.5°	5237.4	5246.7	5228.1	5191.1	5181.9	5169.6	5169.6	5178.8	5203.5	5215.8	5218.9
15°	5255.9	5265.1	5237.4	5197.3	5188.0	5178.8	5175.7	5188.0	5215.8	5237.4	5240.5
17.5°	5289.8	5299.0	5255.9	5200.4	5188.0	5191.1	5188.0	5197.3	5240.5	5280.6	5280.6
20°	5320.7	5326.8	5268.3	5200.4	5188.0	5191.1	5188.0	5206.6	5262.0	5317.6	5320.7
22.5°	5329.9	5336.2	5280.6	5222.0	5212.7	5215.8	5212.7	5231.2	5283.7	5339.2	5339.2
25°	5333.0	5342.3	5299.0	5252.8	5268.3	5274.4	5268.3	5271.4	5311.4	5360.7	5357.7
27.5°	5379.3	5391.6	5351.5	5311.4	5320.7	5317.6	5326.8	5336.2	5367.0	5416.3	5404.0
30°	5474.9	5484.2	5450.2	5410.2	5404.0	5382.4	5410.2	5441.0	5474.9	5518.1	5508.9
32.5°	5632.2	5650.7	5607.6	5564.3	5536.6	5524.2	5545.9	5598.2	5644.6	5690.8	5672.3
35°	5894.4	5906.8	5866.6	5786.4	5737.1	5737.1	5755.6	5823.4	5897.4	5956.1	5934.4
37.5°	6264.5	6280.0	6209.0	6113.4	6039.4	6039.4	6064.0	6134.9	6246.0	6329.3	6298.4
40°	6714.9	6736.4	6647.0	6548.3	6477.4	6465.0	6495.8	6576.1	6681.0	6785.8	6751.9
42.5°	7257.7	7282.4	7165.2	7078.9	7023.3	7023.3	7038.8	7112.8	7208.4	7337.9	7328.6
45°	7951.7	7994.9	7834.5	7748.2	7695.7	7708.1	7717.3	7782.1	7868.4	8016.5	8010.4
47.5°	8778.4	8821.6	8651.9	8562.4	8553.2	8611.8	8574.7	8621.1	8667.3	8836.9	8787.6
50°	9716.1	9790.1	9672.8	9666.7	9685.2	9793.2	9706.8	9731.5	9679.0	9787.0	9722.2
52.5°	10863.5	10971.4	10949.8	10986.9	11193.5	11415.5	11218.2	11131.8	10934.4	10968.3	10854.2
55°	12254.6	12418.0	12448.8	12670.9	13139.8	13593.2	13173.7	12825.2	12405.7	12328.6	12208.3
57.5°	13836.9	13966.4	14114.5	14567.9	15443.9	16248.9	15443.9	14672.8	14012.7	13855.3	13744.3
60°	15539.5	15699.9	15841.8	16511.1	17812.8	18944.8	17788.1	16563.5	15690.6	15477.8	15292.7
62.5°	17368.5	17575.3	17674.0	18417.3	19934.8	21285.9	19956.4	18472.8	17504.3	17276.1	17091.0
65°	19123.6	19293.3	19404.3	20197.0	21646.7	23000.8	21745.4	20283.4	19287.1	18987.9	18839.8
67.5°	19941.0	20033.5	20304.9	21202.5	22732.4	24277.7	22991.6	21298.2	20184.7	19660.3	19666.5
70°	18744.3	18556.1	19210.0	20647.4	22862.0	25061.2	23158.1	20604.1	19240.8	18389.5	18593.1
72.5°	14484.6	14160.8	15295.8	17754.1	21381.4	24561.6	21529.5	17892.9	16002.2	14274.9	14703.6
75°	7880.8	7513.8	9080.7	12189.8	17050.9	21288.9	17442.6	12538.3	10110.8	7822.2	8331.1
77.5°	2223.9	2085.1	3349.7	5897.4	10255.8	14947.3	10650.7	6027.0	3972.8	2356.5	2618.7
80°	681.6	660.1	894.5	1776.6	4355.2	7159.0	4185.6	1798.3	1138.2	718.6	758.8
82.5°	404.1	370.1	444.1	647.7	1110.4	2248.5	1079.5	675.5	542.8	364.0	394.8
85°	231.3	215.9	262.2	314.6	373.2	478.1	311.5	320.8	290.0	194.3	203.6
87.5°	95.6	86.4	101.8	98.7	86.4	111.0	83.2	98.7	117.3	77.1	70.9
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)