

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: P969233

Luminaire Tested: **NAV-SB5D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969233
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-SB5D-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 49432.7 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

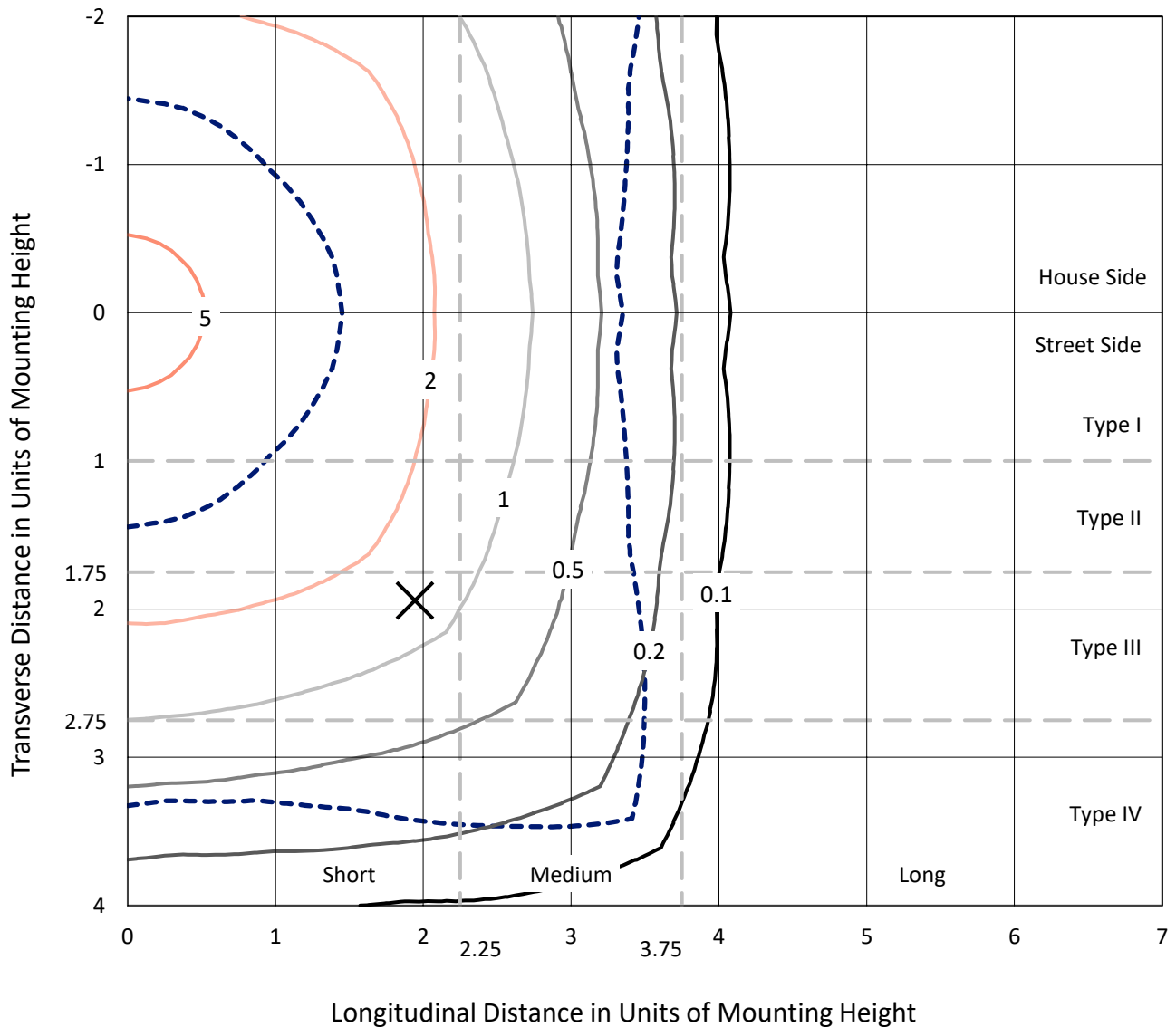
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

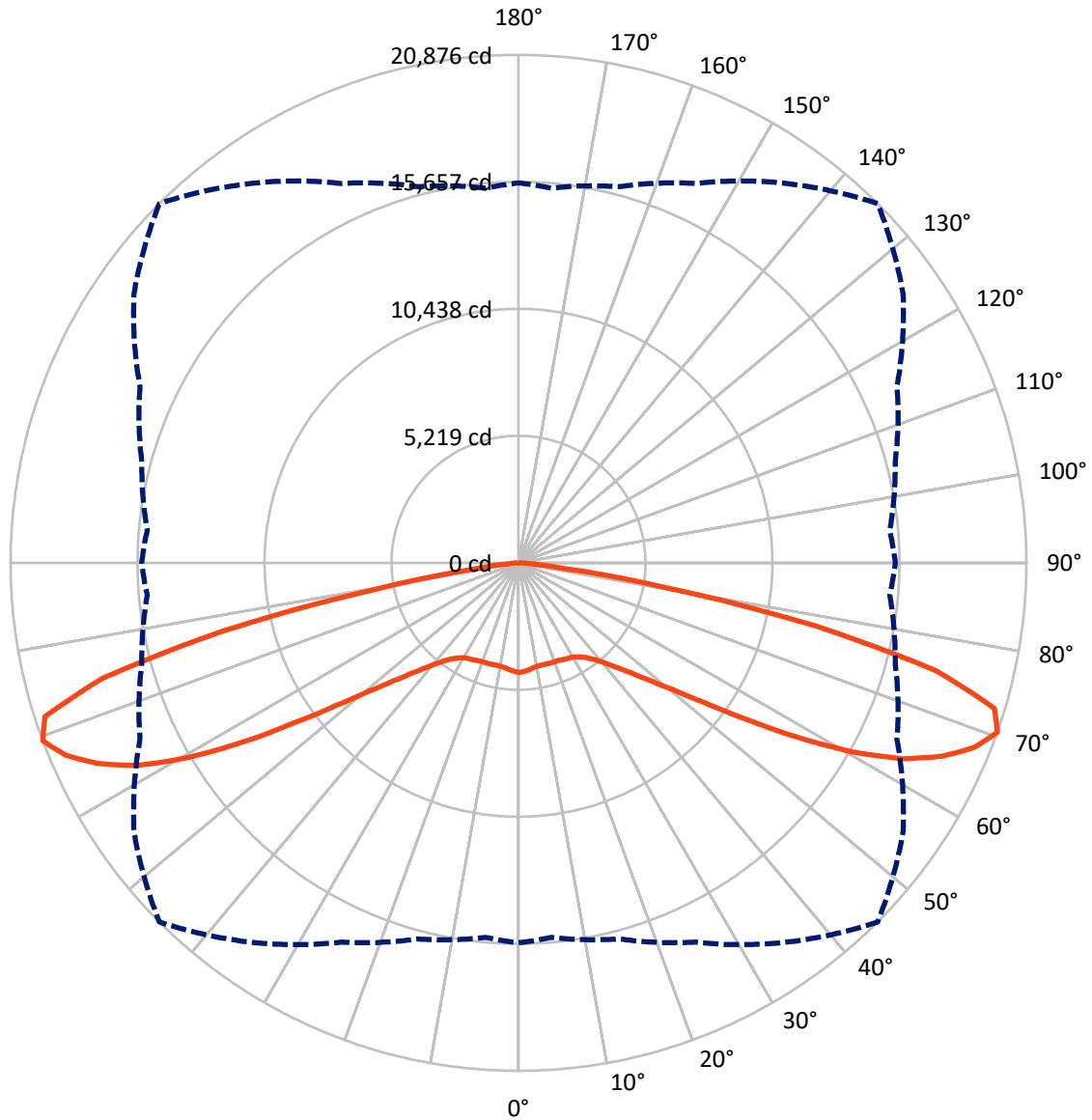
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	24716.3	0.0	24716.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24716.3	0.0	24716.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	49432.7	0.0	49432.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.5	0.8
10°-20°	1231.7	2.5
20°-30°	2049.7	4.1
30°-40°	3099.7	6.3
40°-50°	5151.0	10.4
50°-60°	9719.7	19.7
60°-70°	16412.1	33.2
70°-80°	10784.4	21.8
80°-90°	565.0	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°	49432.7	100.0
0°-180°	49432.7	100.0

Coefficient of Utilization



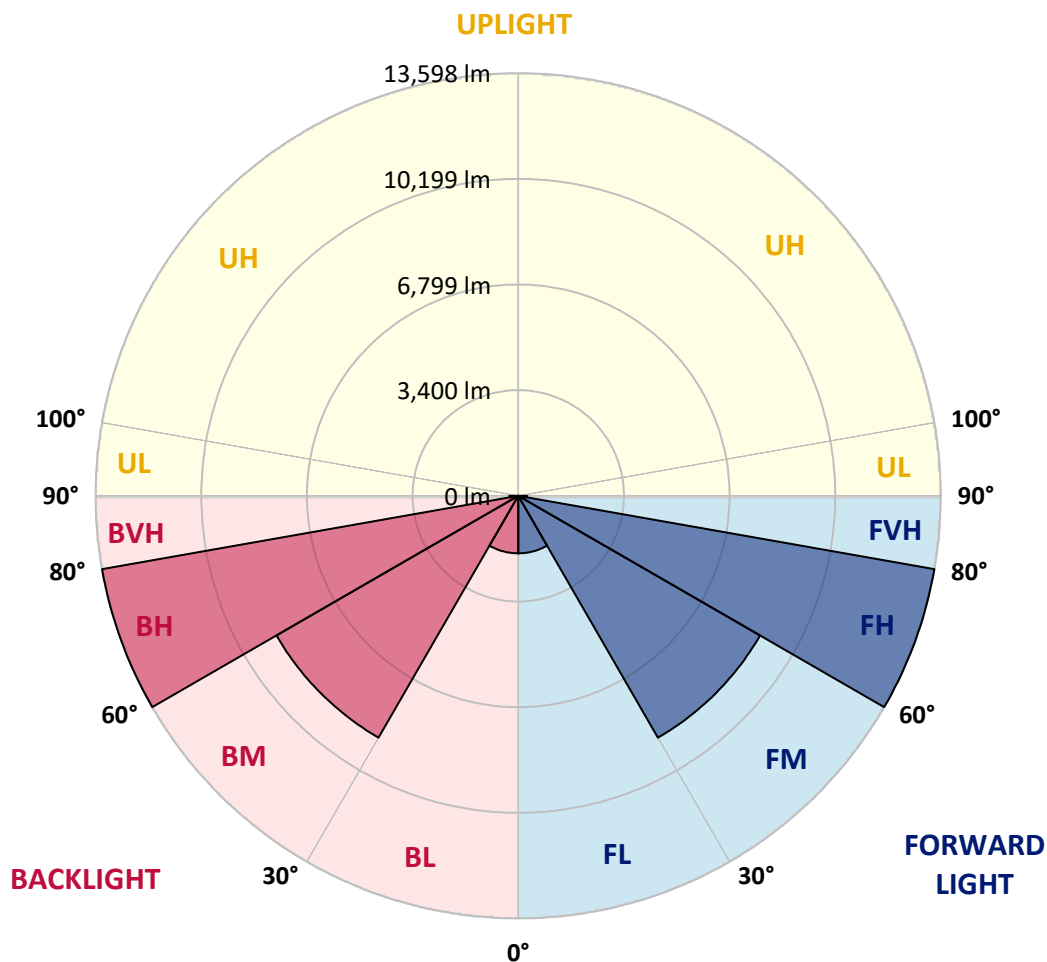
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1850.4	3.7			
FM (30°-60°)	8985.2	18.2			
FH (60°-80°)	13598.3	27.5			G5
FVH (80°-90°)	282.5	0.6			G3/500
BL (0°-30°)	1850.4	3.7	B3/2500		
BM (30°-60°)	8985.2	18.2	B5		
BH (60°-80°)	13598.3	27.5	B5		G5
BVH (80°-90°)	282.5	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°	4509.3	4509.3	4509.3	4509.3	4509.3	4509.3	4509.3	4509.3	4509.3	4509.3	4509.3
2.5°	4481.0	4493.8	4488.7	4478.4	4478.4	4470.7	4478.4	4483.6	4491.2	4496.4	4493.8
5°	4421.8	4432.2	4429.6	4421.8	4424.5	4416.7	4421.8	4429.6	4434.8	4437.3	4437.3
7.5°	4370.5	4380.7	4375.6	4362.8	4362.8	4355.1	4357.7	4365.4	4373.1	4375.6	4375.6
10°	4357.7	4367.9	4352.6	4332.0	4324.3	4314.0	4316.6	4324.3	4339.6	4347.4	4347.4
12.5°	4362.8	4370.5	4355.1	4324.3	4316.6	4306.2	4306.2	4314.0	4334.5	4344.8	4347.4
15°	4378.2	4386.0	4362.8	4329.4	4321.7	4314.0	4311.5	4321.7	4344.8	4362.8	4365.4
17.5°	4406.5	4414.2	4378.2	4332.0	4321.7	4324.3	4321.7	4329.4	4365.4	4398.8	4398.8
20°	4432.2	4437.3	4388.5	4332.0	4321.7	4324.3	4321.7	4337.1	4383.3	4429.6	4432.2
22.5°	4439.9	4445.0	4398.8	4350.0	4342.2	4344.8	4342.2	4357.7	4401.3	4447.6	4447.6
25°	4442.5	4450.1	4414.2	4375.6	4388.5	4393.7	4388.5	4391.1	4424.5	4465.6	4463.1
27.5°	4481.0	4491.2	4457.8	4424.5	4432.2	4429.6	4437.3	4445.0	4470.7	4511.8	4501.6
30°	4560.6	4568.3	4540.1	4506.7	4501.6	4483.6	4506.7	4532.3	4560.6	4596.6	4588.9
32.5°	4691.6	4707.1	4671.1	4635.2	4612.0	4601.7	4619.8	4663.4	4702.0	4740.5	4725.0
35°	4910.1	4920.3	4887.0	4820.2	4779.1	4779.1	4794.4	4851.0	4912.6	4961.5	4943.5
37.5°	5218.4	5231.3	5172.2	5092.5	5030.8	5030.8	5051.4	5110.4	5203.0	5272.4	5246.7
40°	5593.5	5611.6	5537.0	5454.7	5395.7	5385.5	5411.1	5477.9	5565.2	5652.7	5624.4
42.5°	6045.8	6066.3	5968.7	5896.7	5850.5	5850.5	5863.3	5925.0	6004.7	6112.6	6104.8
45°	6623.9	6659.8	6526.2	6454.3	6410.6	6420.9	6428.6	6482.5	6554.5	6677.8	6672.6
47.5°	7312.5	7348.4	7207.1	7132.6	7124.9	7173.7	7142.8	7181.5	7220.0	7361.2	7320.1
50°	8093.5	8155.2	8057.5	8052.4	8067.9	8157.8	8085.8	8106.4	8062.8	8152.6	8098.6
52.5°	9049.3	9139.3	9121.3	9152.1	9324.2	9509.2	9344.8	9272.9	9108.5	9136.7	9041.6
55°	10208.2	10344.3	10370.0	10555.0	10945.6	11323.3	10973.9	10683.5	10334.0	10269.8	10169.6
57.5°	11526.2	11634.2	11757.5	12135.2	12864.9	13535.4	12864.9	12222.5	11672.7	11541.6	11449.1
60°	12944.5	13078.1	13196.4	13753.9	14838.1	15781.1	14817.6	13797.5	13070.4	12893.2	12739.0
62.5°	14468.2	14640.3	14722.5	15341.8	16605.9	17731.3	16623.9	15388.0	14581.2	14391.1	14236.9
65°	15930.1	16071.5	16163.9	16824.2	18031.9	19159.8	18114.1	16896.2	16066.3	15817.1	15693.8
67.5°	16611.0	16688.1	16914.2	17661.9	18936.3	20223.6	19152.1	17741.5	16814.0	16377.2	16382.4
70°	15614.1	15457.4	16002.1	17199.4	19044.2	20876.2	19290.9	17163.4	16027.7	15318.6	15488.2
72.5°	12065.8	11796.0	12741.6	14789.3	17810.9	20459.9	17934.2	14904.9	13329.9	11891.0	12248.2
75°	6564.7	6259.0	7564.2	10154.2	14203.5	17733.8	14529.8	10444.5	8422.4	6515.9	6939.9
77.5°	1852.5	1736.9	2790.4	4912.6	8543.2	12451.2	8872.1	5020.6	3309.3	1963.0	2181.4
80°	567.8	549.8	745.1	1480.0	3628.0	5963.6	3486.6	1497.9	948.1	598.7	632.1
82.5°	336.6	308.3	370.0	539.6	925.0	1873.1	899.2	562.7	452.2	303.2	328.9
85°	192.7	179.9	218.4	262.1	310.9	398.2	259.5	267.2	241.5	161.8	169.5
87.5°	79.6	72.0	84.8	82.2	72.0	92.5	69.4	82.2	97.7	64.3	59.1
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)