

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: P969419

Luminaire Tested: **NAV-SB5D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969419
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 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: 46343.3 lumens
Efficiency: N/A
Efficacy: 127.0 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



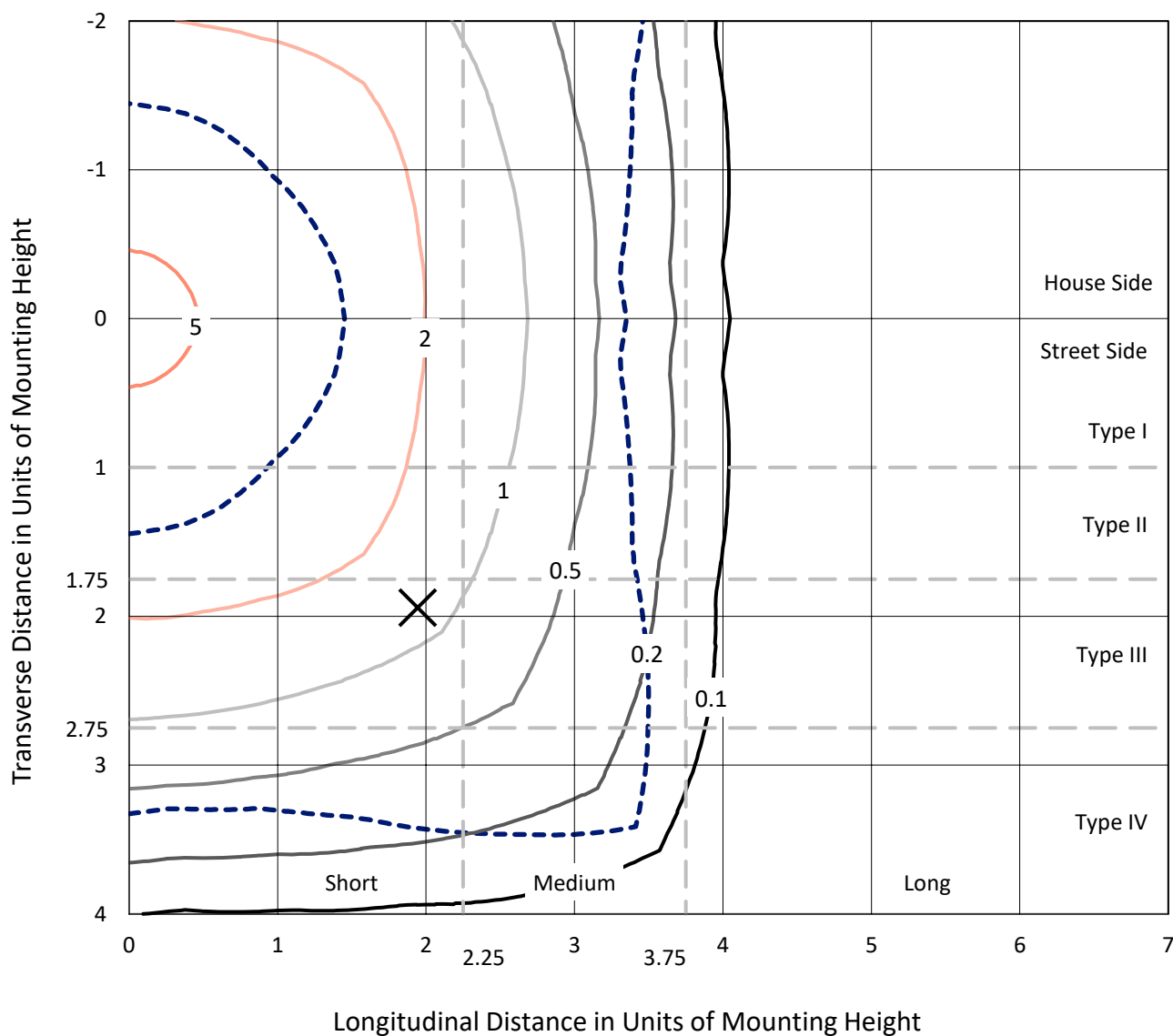
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

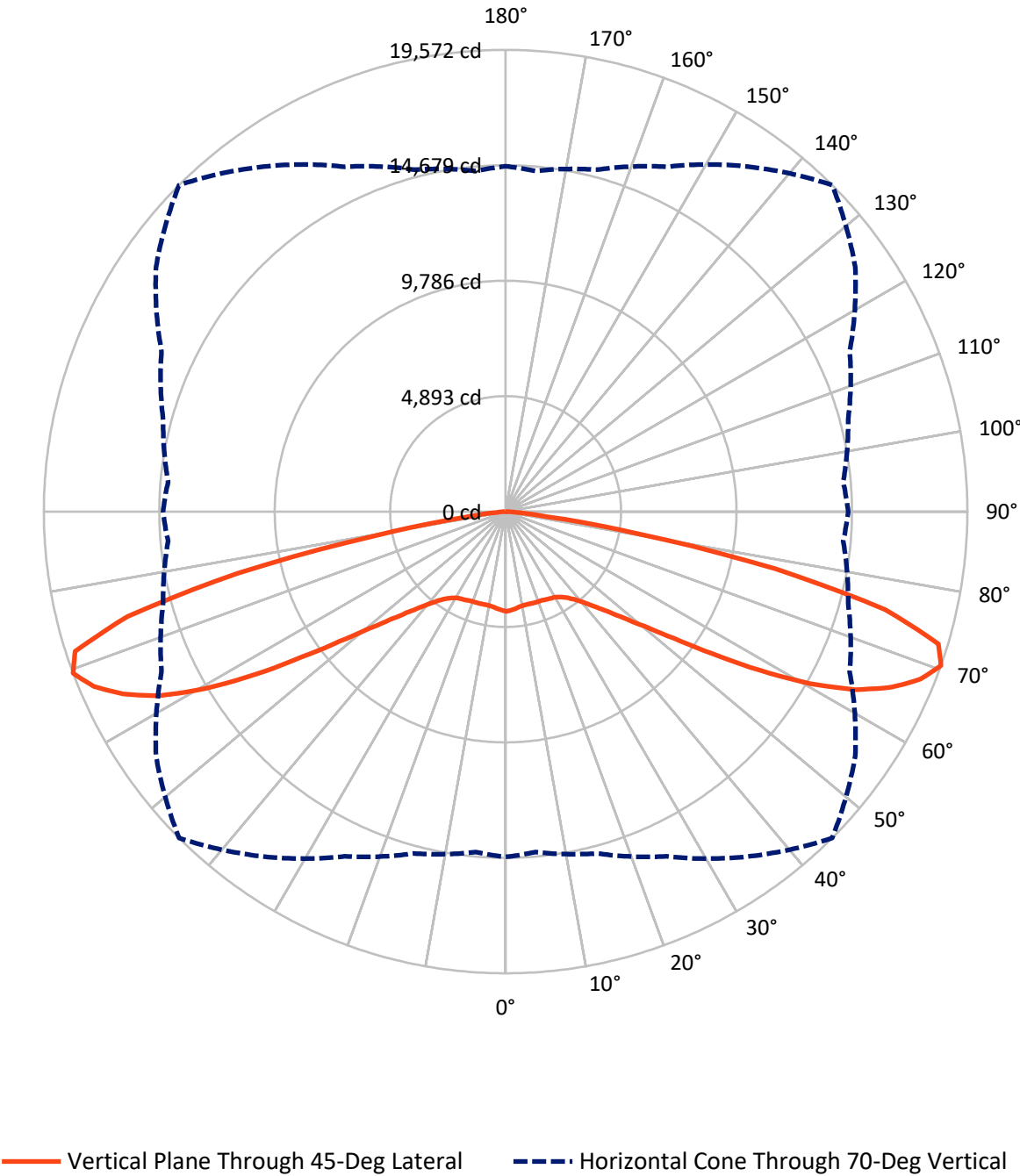


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23171.7	0.0	23171.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23171.7	0.0	23171.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	46343.3	0.0	46343.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	0.8
10°-20°	1154.7	2.5
20°-30°	1921.6	4.1
30°-40°	2906.0	6.3
40°-50°	4829.1	10.4
50°-60°	9112.2	19.7
60°-70°	15386.4	33.2
70°-80°	10110.5	21.8
80°-90°	529.7	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°	46343.3	100.0
0°-180°	46343.3	100.0

Coefficient of Utilization



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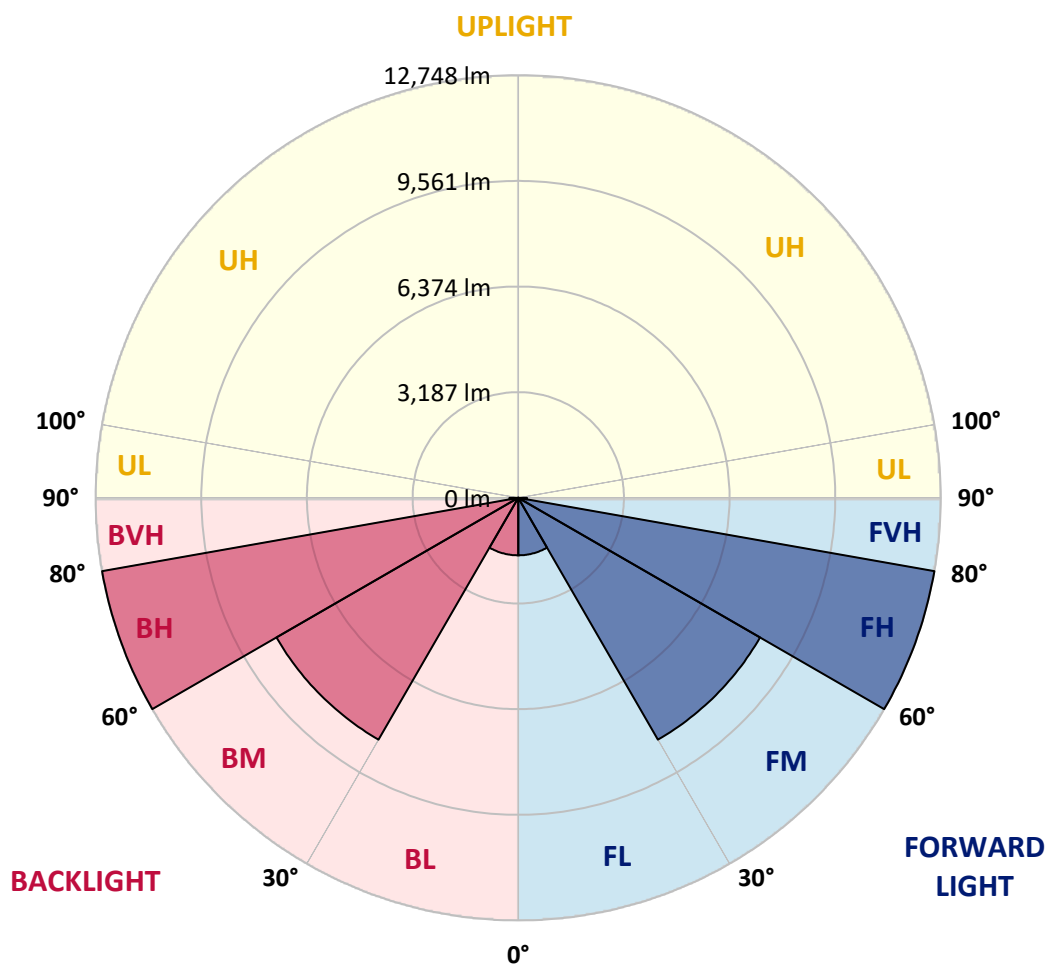
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1734.7	3.7			
FM	(30°-60°)	8423.6	18.2			
FH	(60°-80°)	12748.4	27.5			G5
FVH	(80°-90°)	264.8	0.6			G3/500
BL	(0°-30°)	1734.7	3.7	B3/2500		
BM	(30°-60°)	8423.6	18.2	B4/8500		
BH	(60°-80°)	12748.4	27.5	B5		G5
BVH	(80°-90°)	264.8	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°	4227.4	4227.4	4227.4	4227.4	4227.4	4227.4	4227.4	4227.4	4227.4	4227.4	4227.4
2.5°	4201.0	4213.0	4208.1	4198.5	4198.5	4191.3	4198.5	4203.3	4210.6	4215.4	4213.0
5°	4145.5	4155.1	4152.8	4145.5	4148.0	4140.7	4145.5	4152.8	4157.6	4160.0	4160.0
7.5°	4097.3	4107.0	4102.2	4090.2	4090.2	4082.9	4085.3	4092.5	4099.8	4102.2	4102.2
10°	4085.3	4095.0	4080.5	4061.3	4054.0	4044.3	4046.8	4054.0	4068.4	4075.7	4075.7
12.5°	4090.2	4097.3	4082.9	4054.0	4046.8	4037.2	4037.2	4044.3	4063.6	4073.2	4075.7
15°	4104.6	4111.8	4090.2	4058.8	4051.6	4044.3	4042.0	4051.6	4073.2	4090.2	4092.5
17.5°	4131.1	4138.3	4104.6	4061.3	4051.6	4054.0	4051.6	4058.8	4092.5	4123.9	4123.9
20°	4155.1	4160.0	4114.2	4061.3	4051.6	4054.0	4051.6	4066.1	4109.4	4152.8	4155.1
22.5°	4162.4	4167.2	4123.9	4078.1	4070.9	4073.2	4070.9	4085.3	4126.2	4169.6	4169.6
25°	4164.8	4172.1	4138.3	4102.2	4114.2	4119.1	4114.2	4116.6	4148.0	4186.5	4184.0
27.5°	4201.0	4210.6	4179.2	4148.0	4155.1	4152.8	4160.0	4167.2	4191.3	4229.9	4220.2
30°	4275.6	4282.9	4256.3	4225.0	4220.2	4203.3	4225.0	4249.1	4275.6	4309.3	4302.1
32.5°	4398.5	4412.9	4379.2	4345.5	4323.8	4314.1	4331.0	4371.9	4408.1	4444.2	4429.7
35°	4603.2	4612.8	4581.5	4518.9	4480.4	4480.4	4494.8	4547.8	4605.6	4651.3	4634.5
37.5°	4892.2	4904.3	4848.9	4774.2	4716.4	4716.4	4735.7	4791.1	4877.8	4942.9	4918.8
40°	5244.0	5260.8	5191.0	5113.9	5058.5	5048.8	5072.9	5135.6	5217.5	5299.4	5272.9
42.5°	5667.9	5687.2	5595.7	5528.2	5484.9	5484.9	5496.9	5554.7	5629.4	5730.6	5723.3
45°	6209.9	6243.6	6118.3	6050.9	6010.0	6019.6	6026.8	6077.4	6144.9	6260.5	6255.7
47.5°	6855.4	6889.1	6756.7	6686.8	6679.6	6725.3	6696.4	6732.6	6768.7	6901.2	6862.7
50°	7587.8	7645.6	7554.0	7549.2	7563.7	7647.9	7580.5	7599.8	7558.9	7643.1	7592.6
52.5°	8483.8	8568.1	8551.3	8580.2	8741.5	8914.9	8760.8	8693.3	8539.2	8565.7	8476.5
55°	9570.1	9697.8	9721.9	9895.3	10261.5	10615.6	10288.0	10015.8	9688.2	9627.9	9534.0
57.5°	10805.9	10907.0	11022.6	11376.8	12060.9	12689.6	12060.9	11458.7	10943.2	10820.3	10733.6
60°	12135.5	12260.7	12371.6	12894.3	13910.8	14794.8	13891.5	12935.3	12253.6	12087.3	11942.8
62.5°	13563.9	13725.4	13802.4	14382.9	15568.1	16623.1	15584.9	14426.3	13669.9	13491.7	13347.1
65°	14934.6	15067.1	15153.8	15772.8	16904.9	17962.4	16982.0	15840.2	15062.3	14828.6	14713.0
67.5°	15572.9	15645.2	15857.2	16558.1	17752.9	18959.6	17955.2	16632.8	15763.2	15353.7	15358.5
70°	14638.2	14491.3	15002.0	16124.5	17854.1	19571.5	18085.3	16090.8	15026.1	14361.3	14520.3
72.5°	11311.7	11058.8	11945.2	13865.1	16697.8	19181.2	16813.4	13973.4	12496.9	11147.9	11482.8
75°	6154.5	5867.8	7091.5	9519.6	13315.9	16625.5	13621.7	9791.7	7896.1	6108.7	6506.2
77.5°	1736.8	1628.3	2616.0	4605.6	8009.2	11673.0	8317.6	4706.8	3102.6	1840.3	2045.1
80°	532.4	515.5	698.5	1387.4	3401.3	5590.9	3268.7	1404.4	888.9	561.3	592.6
82.5°	315.6	289.0	346.9	505.8	867.2	1756.0	843.1	527.6	423.9	284.2	308.3
85°	180.7	168.6	204.8	245.7	291.5	373.4	243.3	250.5	226.4	151.8	159.0
87.5°	74.7	67.4	79.5	77.1	67.4	86.7	65.1	77.1	91.5	60.3	55.5
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)