

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: P966597

Luminaire Tested: **NAV-SB4C-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966597
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-SB4C-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29902.3 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

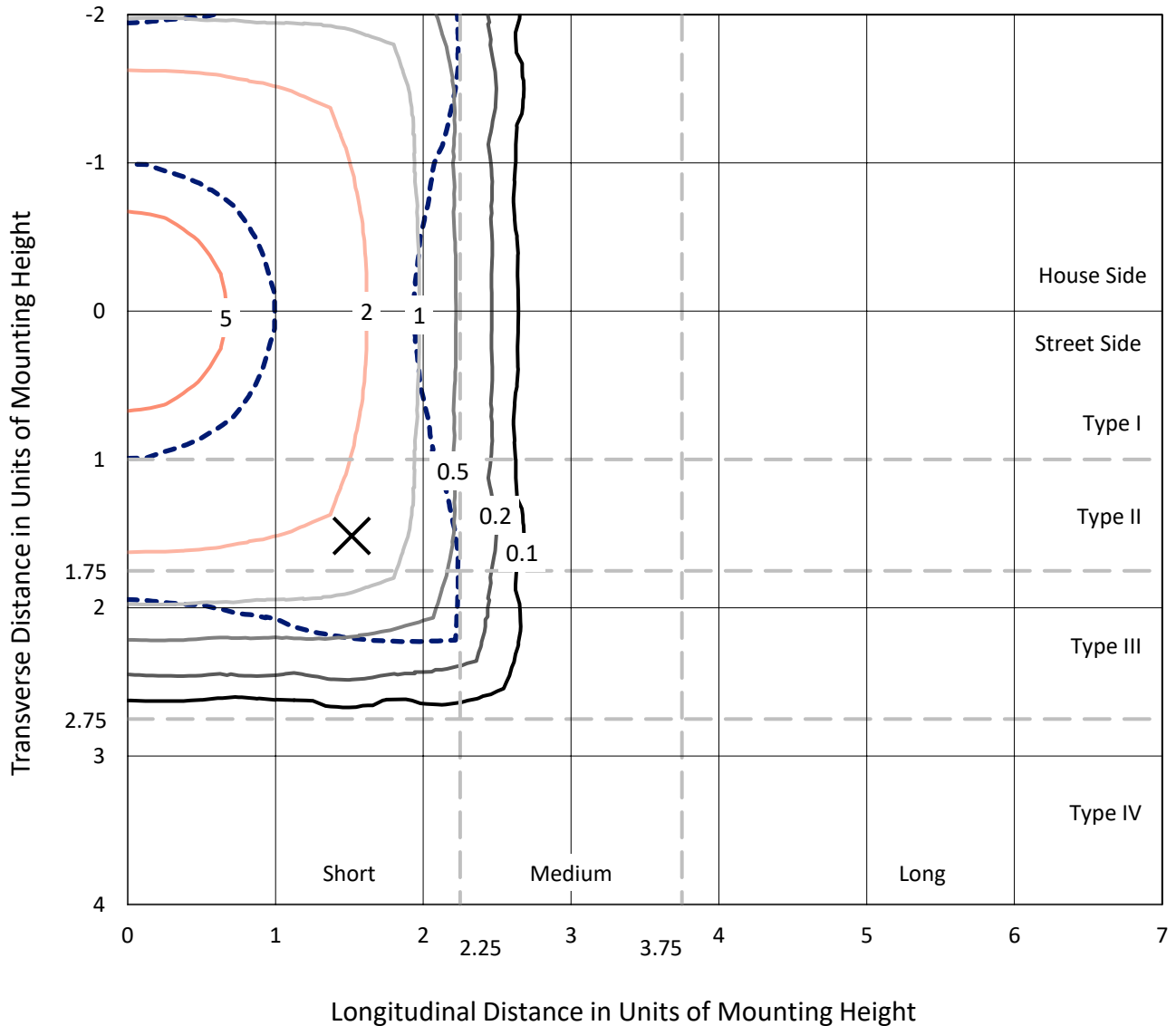
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

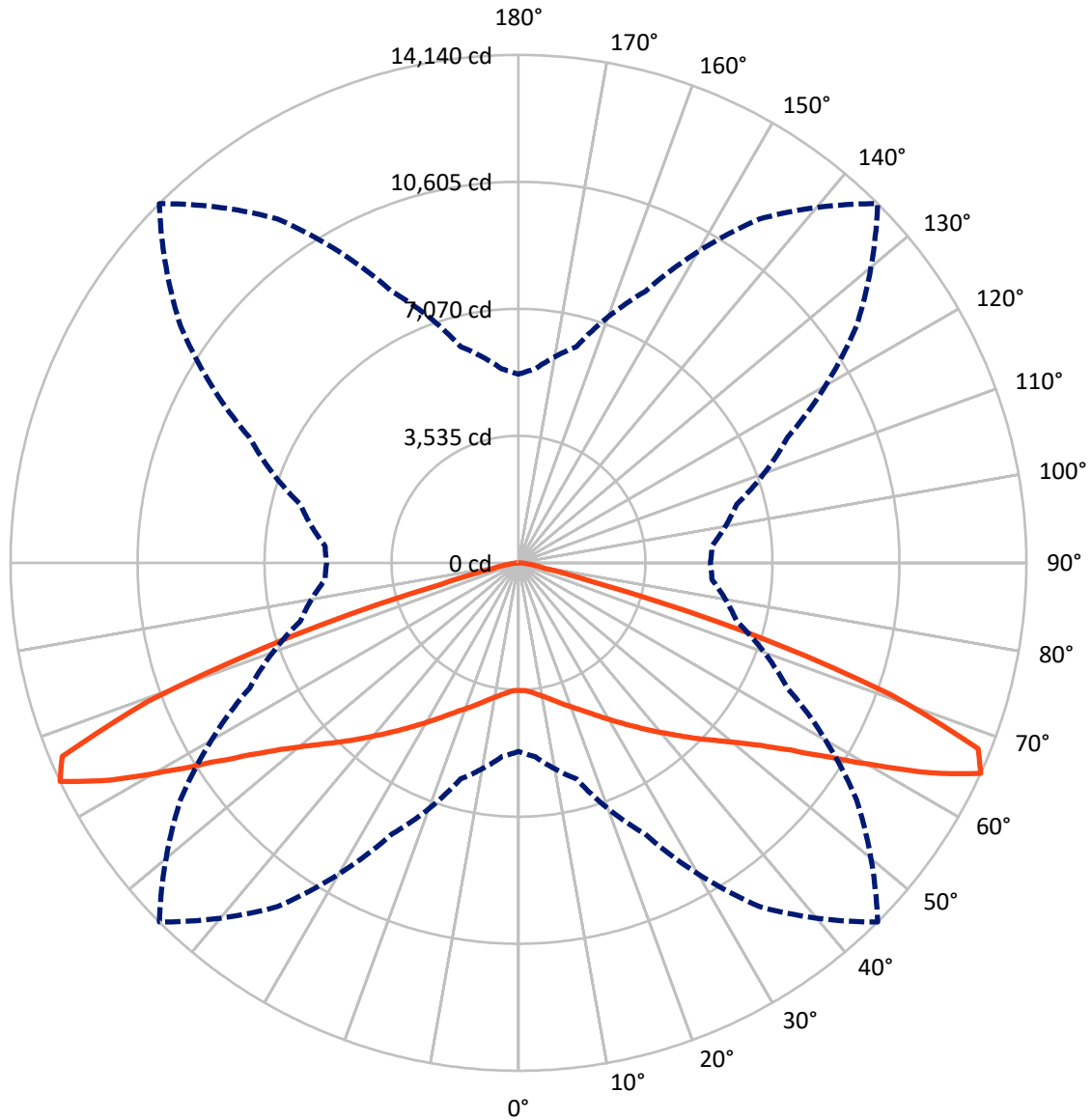
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	14951.2	0.0	14951.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14951.2	0.0	14951.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	29902.3	0.0	29902.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	1.2
10°-20°	1146.0	3.8
20°-30°	2163.8	7.2
30°-40°	3543.2	11.8
40°-50°	5493.7	18.4
50°-60°	8115.3	27.1
60°-70°	7725.0	25.8
70°-80°	1246.5	4.2
80°-90°	117.5	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°	29902.3	100.0
0°-180°	29902.3	100.0

Coefficient of Utilization

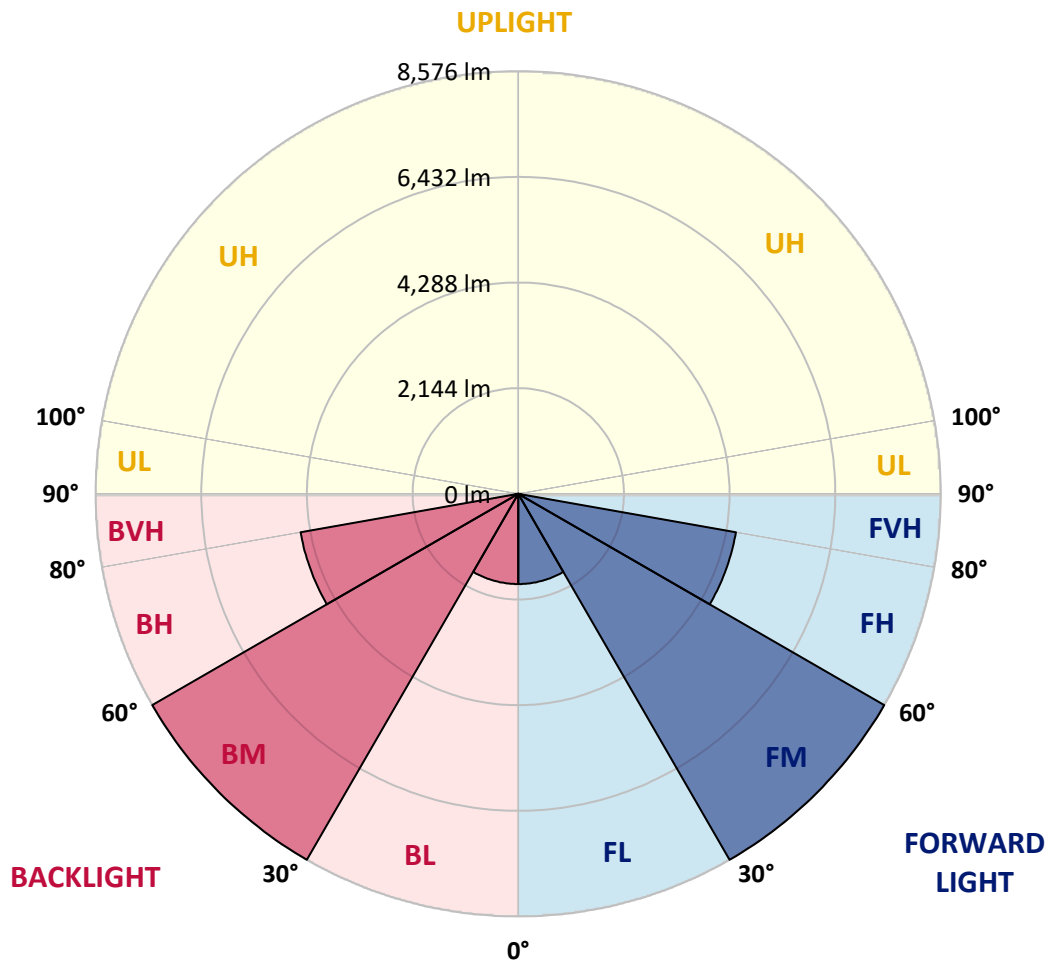


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.5	6.1			
FM (30°-60°)	8576.1	28.7			
FH (60°-80°)	4485.8	15.0			G2/5000
FVH (80°-90°)	58.8	0.2			G1/100
BL (0°-30°)	1830.5	6.1	B3/2500		
BM (30°-60°)	8576.1	28.7	B5		
BH (60°-80°)	4485.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	58.8	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-G2
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7
2.5°	3582.7	3570.7	3579.7	3572.2	3566.2	3560.1	3563.2	3573.7	3578.2	3579.7	3579.7
5°	3630.7	3620.2	3624.7	3624.7	3614.2	3611.2	3612.7	3620.2	3629.2	3629.2	3629.2
7.5°	3708.7	3698.2	3708.7	3702.7	3693.7	3690.7	3689.2	3695.2	3708.7	3708.7	3704.2
10°	3803.3	3791.3	3797.2	3794.2	3783.7	3779.2	3777.7	3786.8	3798.8	3797.2	3794.2
12.5°	3906.8	3893.3	3900.7	3891.7	3888.7	3884.2	3884.2	3882.7	3890.3	3884.2	3887.2
15°	4022.3	4013.3	4016.3	4010.3	4014.7	4011.7	3999.8	3993.7	3996.8	3987.8	3989.3
17.5°	4158.8	4137.8	4148.3	4145.3	4145.3	4151.2	4131.8	4124.3	4130.2	4121.3	4128.8
20°	4316.3	4295.4	4299.8	4293.8	4286.3	4292.3	4268.3	4274.4	4278.9	4272.8	4286.3
22.5°	4488.9	4461.8	4460.4	4463.4	4446.9	4448.3	4431.8	4446.9	4455.9	4439.4	4455.9
25°	4665.9	4637.4	4656.9	4649.4	4628.4	4632.9	4620.9	4635.9	4643.4	4622.3	4646.4
27.5°	4853.4	4833.9	4851.9	4856.4	4830.9	4849.0	4830.9	4844.5	4851.9	4820.4	4844.5
30°	5072.4	5052.9	5069.4	5081.4	5051.5	5080.0	5064.9	5074.0	5075.5	5038.0	5060.4
32.5°	5311.0	5281.0	5323.0	5329.0	5296.0	5330.5	5311.0	5323.0	5330.5	5279.5	5314.0
35°	5602.0	5564.5	5612.6	5605.1	5576.5	5605.1	5587.1	5605.1	5623.0	5561.5	5599.1
37.5°	5915.6	5876.6	5927.6	5914.1	5887.1	5906.7	5896.1	5908.1	5936.6	5870.6	5911.1
40°	6260.7	6212.7	6281.7	6257.7	6232.2	6229.2	6235.2	6242.7	6280.2	6206.7	6230.7
42.5°	6629.8	6578.8	6682.3	6644.8	6608.8	6584.7	6604.3	6619.2	6655.2	6572.7	6616.3
45°	7051.4	6992.9	7127.8	7082.9	7025.9	6976.4	7007.8	7030.4	7082.9	6983.8	7034.9
47.5°	7516.4	7450.4	7594.4	7580.9	7487.9	7379.9	7452.0	7516.4	7555.5	7435.5	7475.9
50°	7971.0	7920.0	8109.1	8125.6	8011.5	7860.0	7960.6	8058.0	8068.5	7911.1	7930.5
52.5°	8397.1	8346.1	8620.7	8724.2	8622.1	8442.1	8548.6	8647.6	8568.1	8364.1	8370.0
55°	8737.6	8695.7	9045.2	9312.2	9346.8	9198.2	9261.3	9258.2	8997.2	8683.7	8694.2
57.5°	8820.1	8814.2	9255.2	9820.8	10180.9	10199.0	10074.4	9756.4	9193.7	8772.2	8745.2
60°	8445.1	8482.6	9088.7	10086.4	11046.6	11445.7	10907.0	9999.4	8970.2	8385.1	8316.0
62.5°	7322.9	7421.9	8152.5	9762.3	11745.7	12879.9	11574.7	9630.3	8052.0	7288.4	7243.4
65°	5248.0	5420.5	6227.7	8331.1	11682.7	14140.2	11478.7	8263.6	6287.7	5407.0	5342.5
67.5°	2381.0	2556.5	3242.1	5704.1	10155.4	13798.1	10131.4	5764.1	3404.1	2565.5	2528.0
70°	862.6	892.7	1113.3	2283.4	6490.2	10994.0	6767.8	2299.9	1183.8	951.2	939.2
72.5°	522.1	526.6	573.1	817.6	2254.9	6674.8	2350.9	844.7	585.1	519.1	528.1
75°	331.6	328.5	408.1	499.6	799.6	2251.9	838.7	499.6	406.6	370.5	373.6
77.5°	238.5	246.0	292.5	373.6	504.1	763.6	495.1	357.1	292.5	240.1	244.6
80°	178.6	183.1	213.0	291.1	354.0	475.6	315.1	264.0	220.6	150.1	154.6
82.5°	129.0	129.0	139.5	211.6	216.1	256.6	171.1	186.0	145.5	106.5	106.5
85°	76.5	75.0	87.0	126.1	112.5	94.5	78.0	114.0	91.5	66.0	64.5
87.5°	27.0	28.5	27.0	36.0	30.0	25.5	24.0	31.5	25.5	22.5	21.0
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)