

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: P971587

Luminaire Tested: **NAV-SB6D-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61439.5 lumens
Efficiency: N/A
Efficacy: 139.6 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



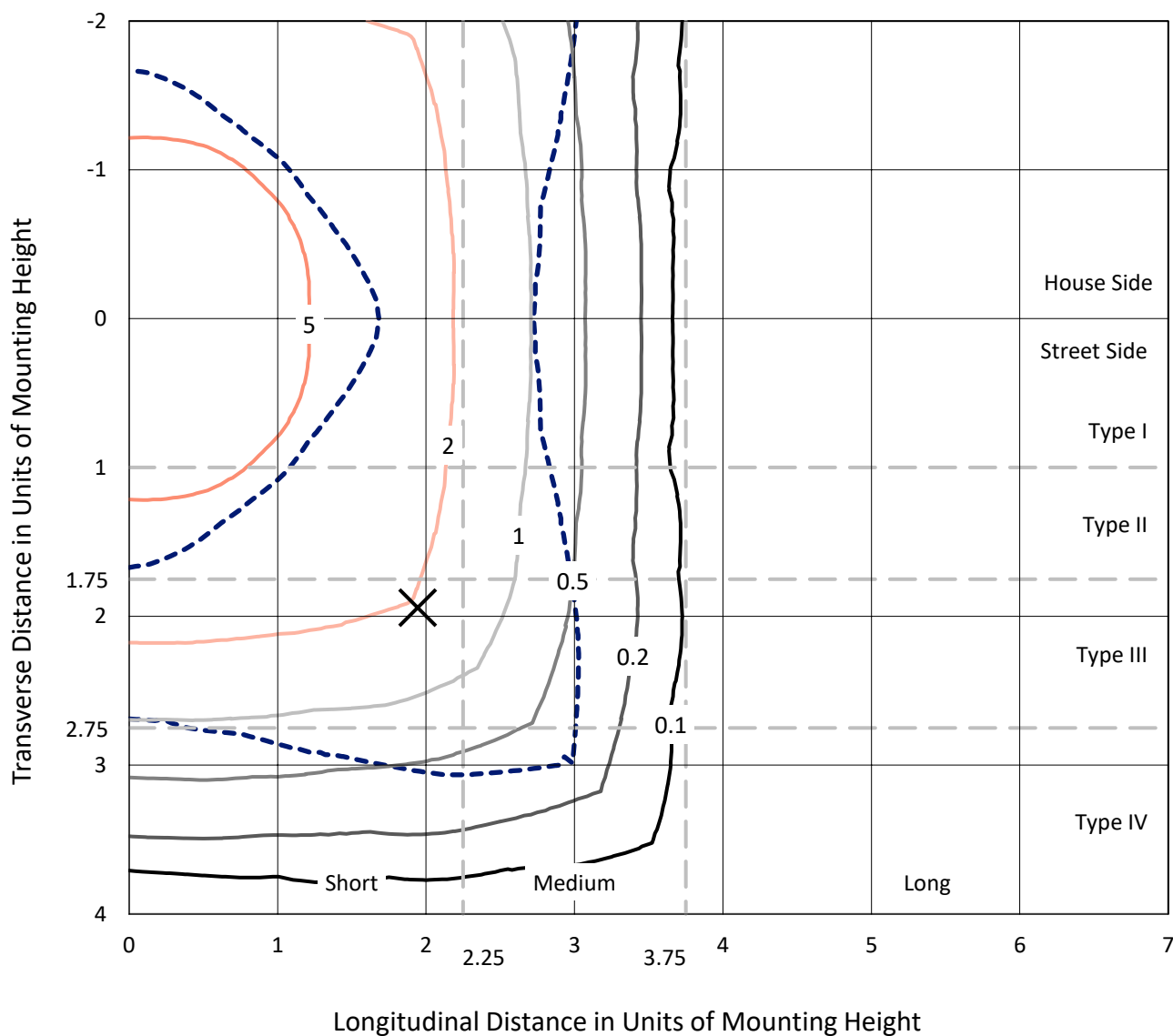
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

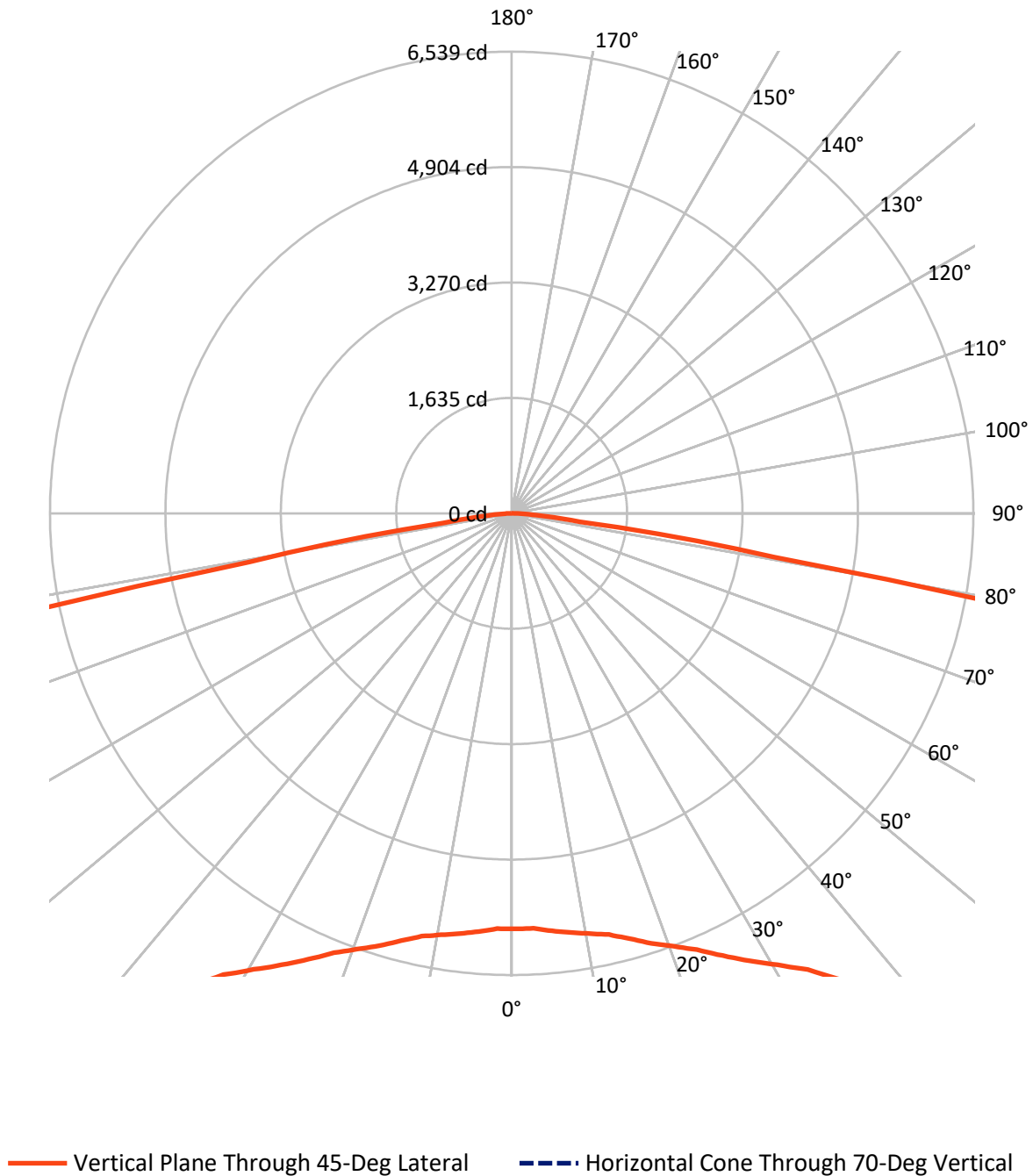
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	30719.8	0.0	30719.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30719.8	0.0	30719.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	61439.5	0.0	61439.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.8	0.9
10°-20°	1772.9	2.9
20°-30°	3168.5	5.2
30°-40°	5136.0	8.4
40°-50°	8365.8	13.6
50°-60°	12754.9	20.8
60°-70°	18975.3	30.9
70°-80°	10342.1	16.8
80°-90°	352.2	0.6
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°	61439.5	100.0
0°-180°	61439.5	100.0

Coefficient of Utilization



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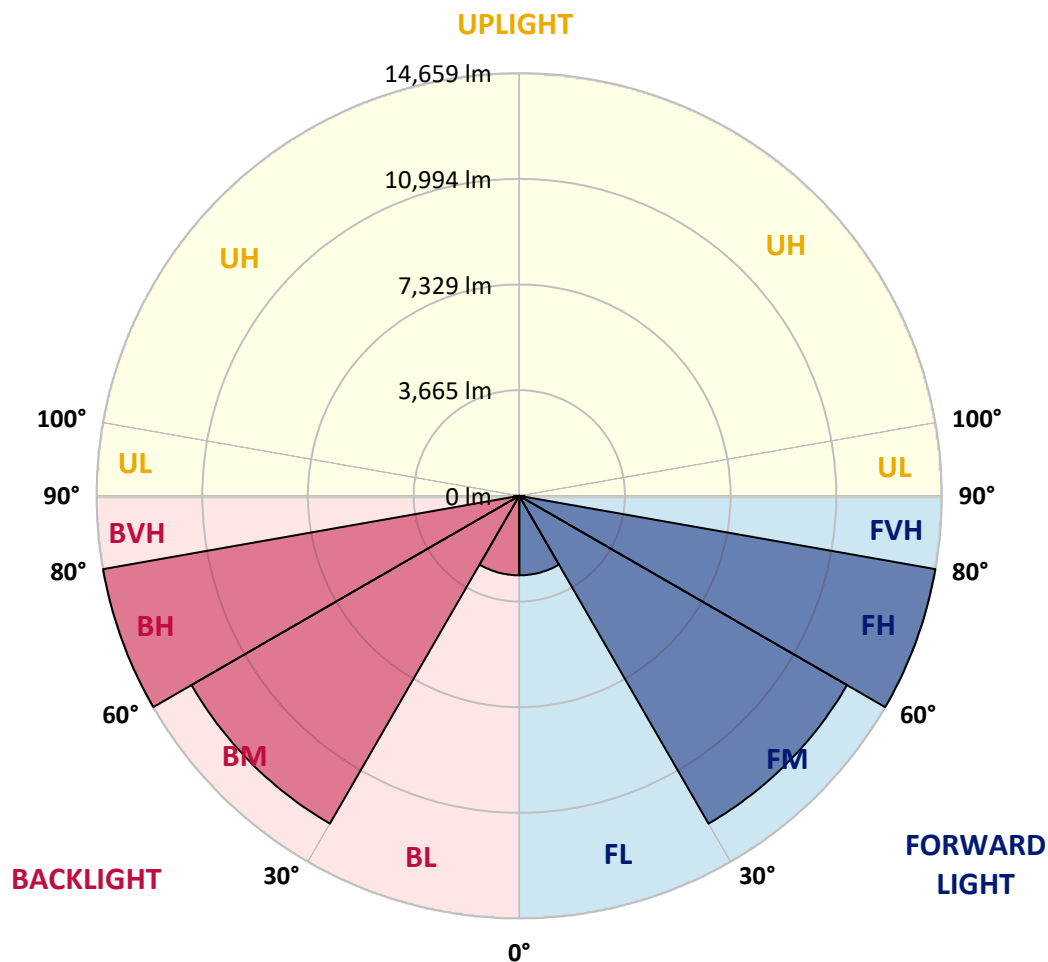
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2756.6	4.5			
FM	(30°-60°)	13128.4	21.4			
FH	(60°-80°)	14658.7	23.9			G5
FVH	(80°-90°)	176.1	0.3			G2/225
BL	(0°-30°)	2756.6	4.5	B4/5000		
BM	(30°-60°)	13128.4	21.4	B5		
BH	(60°-80°)	14658.7	23.9	B5		G5
BVH	(80°-90°)	176.1	0.3			G2/225
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°	5885.2	5885.2	5885.2	5885.2	5885.2	5885.2	5885.2	5885.2	5885.2	5885.2	5885.2
2.5°	5913.0	5919.2	5906.9	5900.7	5894.6	5885.2	5888.3	5903.8	5916.1	5913.0	5916.1
5°	5962.4	5968.6	5959.3	5956.2	5943.9	5940.8	5940.8	5956.2	5965.5	5959.3	5962.4
7.5°	6017.9	6027.2	6011.7	6008.7	6002.5	5996.4	5993.3	6008.7	6017.9	6017.9	6017.9
10°	6070.4	6079.6	6067.3	6058.0	6051.8	6051.8	6045.7	6058.0	6073.4	6070.4	6070.4
12.5°	6125.9	6132.1	6119.7	6113.5	6113.5	6122.7	6113.5	6119.7	6132.1	6125.9	6122.7
15°	6193.8	6196.8	6193.8	6203.0	6218.4	6249.2	6221.4	6215.3	6221.4	6206.1	6206.1
17.5°	6286.2	6292.5	6304.8	6326.4	6347.9	6403.5	6354.1	6338.7	6338.7	6307.8	6307.8
20°	6400.4	6409.6	6428.2	6465.2	6493.0	6545.3	6496.0	6474.4	6465.2	6425.1	6425.1
22.5°	6520.6	6536.1	6563.9	6613.2	6662.6	6711.9	6662.6	6625.6	6597.8	6545.3	6542.3
25°	6659.5	6678.0	6721.1	6801.4	6869.2	6940.2	6881.5	6807.5	6752.0	6678.0	6674.9
27.5°	6856.9	6878.5	6930.9	7029.7	7116.0	7177.7	7122.2	7026.6	6949.4	6860.0	6856.9
30°	7134.5	7156.1	7217.7	7322.7	7381.2	7421.4	7384.3	7310.3	7217.7	7116.0	7116.0
32.5°	7492.3	7520.1	7588.0	7686.7	7699.0	7705.1	7692.8	7655.8	7588.0	7464.6	7467.6
35°	7945.7	7976.6	8053.7	8133.9	8121.6	8133.9	8115.3	8103.0	8053.7	7911.8	7911.8
37.5°	8500.9	8537.9	8618.2	8679.8	8649.1	8633.6	8636.6	8639.7	8611.9	8454.7	8454.7
40°	9145.6	9195.0	9253.6	9318.4	9265.9	9219.7	9250.5	9275.1	9250.5	9090.1	9090.1
42.5°	9808.7	9879.8	9941.4	10033.9	9990.8	9932.1	9975.3	10003.1	9950.7	9778.0	9790.3
45°	10546.0	10613.9	10694.0	10832.8	10802.0	10740.4	10802.0	10808.2	10718.7	10515.2	10536.7
47.5°	11307.9	11378.8	11499.1	11684.2	11671.9	11604.0	11684.2	11641.0	11526.8	11283.2	11267.7
50°	12029.6	12128.3	12313.4	12572.5	12597.1	12513.9	12621.8	12538.6	12347.4	12042.0	12035.9
52.5°	12708.3	12813.1	13106.2	13457.7	13547.2	13439.3	13584.2	13439.3	13152.4	12760.6	12723.6
55°	13420.7	13538.0	13886.5	14346.1	14525.1	14444.8	14580.5	14361.6	13954.4	13479.4	13414.6
57.5°	14259.8	14330.7	14747.1	15293.1	15595.4	15613.8	15675.5	15305.4	14811.9	14272.1	14198.1
60°	15169.7	15268.4	15721.9	16375.7	16853.9	17008.0	16943.2	16394.3	15820.6	15200.5	15101.8
62.5°	16335.6	16443.6	16986.5	17769.9	18525.6	18908.2	18655.2	17859.4	17150.0	16406.6	16277.0
65°	17301.1	17421.4	18402.2	19799.5	21175.3	21943.3	21307.9	19842.8	18565.7	17517.0	17344.2
67.5°	16600.9	16749.0	18288.2	20854.4	24275.2	26567.0	24392.4	21169.1	18667.5	17245.5	17032.7
70°	14509.6	14648.4	16443.6	19580.6	25148.2	30169.7	25672.5	20157.3	16502.2	14910.6	14697.8
72.5°	9632.9	10080.3	11897.0	15660.2	22455.3	27918.0	22677.4	15342.4	11036.4	9611.4	9299.8
75°	3195.5	3553.4	4793.3	8118.5	15040.1	20879.1	14318.3	7183.8	3797.0	2732.9	2584.8
77.5°	805.0	928.4	1280.1	2322.6	5999.4	11887.7	5401.0	1897.0	1033.3	721.8	644.6
80°	391.8	431.8	616.9	774.2	1502.1	3778.6	1409.6	728.0	487.4	376.3	345.4
82.5°	216.0	219.0	348.5	438.0	558.3	977.7	579.8	425.7	280.6	228.3	228.3
85°	132.6	129.6	185.1	234.4	234.4	348.5	277.6	234.4	160.4	141.9	148.0
87.5°	52.5	52.5	67.9	74.0	64.8	89.5	70.9	77.1	61.7	58.6	61.7
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)