

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: P969821

Luminaire Tested: **NAV-SB6A-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969821
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-SB6A-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29217.6 lumens
Efficiency: N/A
Efficacy: 171.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 170.9
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

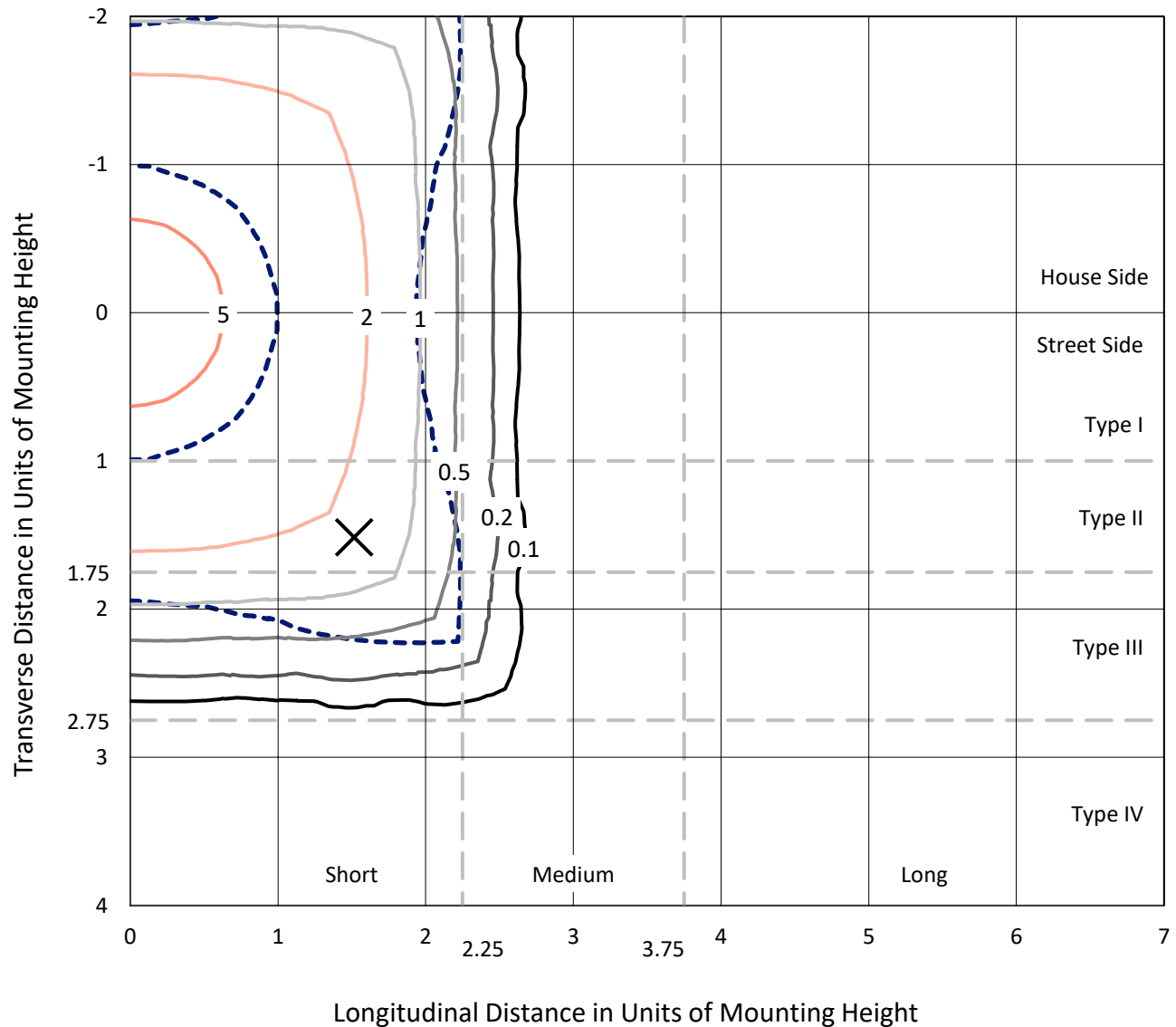


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Iso-Footcandle Lines of Horizontal Illumination

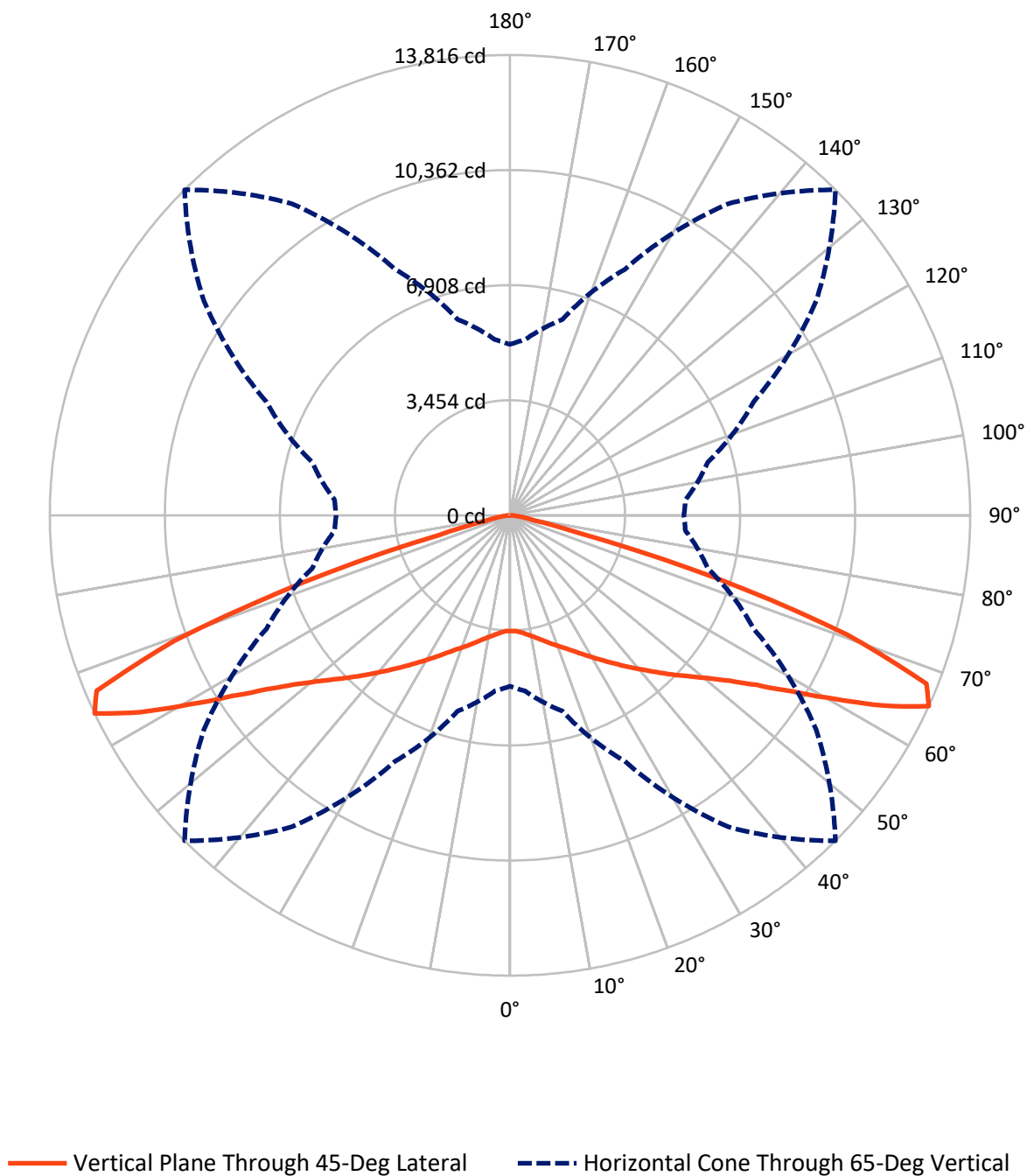
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	14608.8	0.0	14608.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14608.8	0.0	14608.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	29217.6	0.0	29217.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.2	1.2
10°-20°	1119.8	3.8
20°-30°	2114.3	7.2
30°-40°	3462.0	11.8
40°-50°	5367.9	18.4
50°-60°	7929.5	27.1
60°-70°	7548.2	25.8
70°-80°	1218.0	4.2
80°-90°	114.8	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°	29217.6	100.0
0°-180°	29217.6	100.0

Coefficient of Utilization



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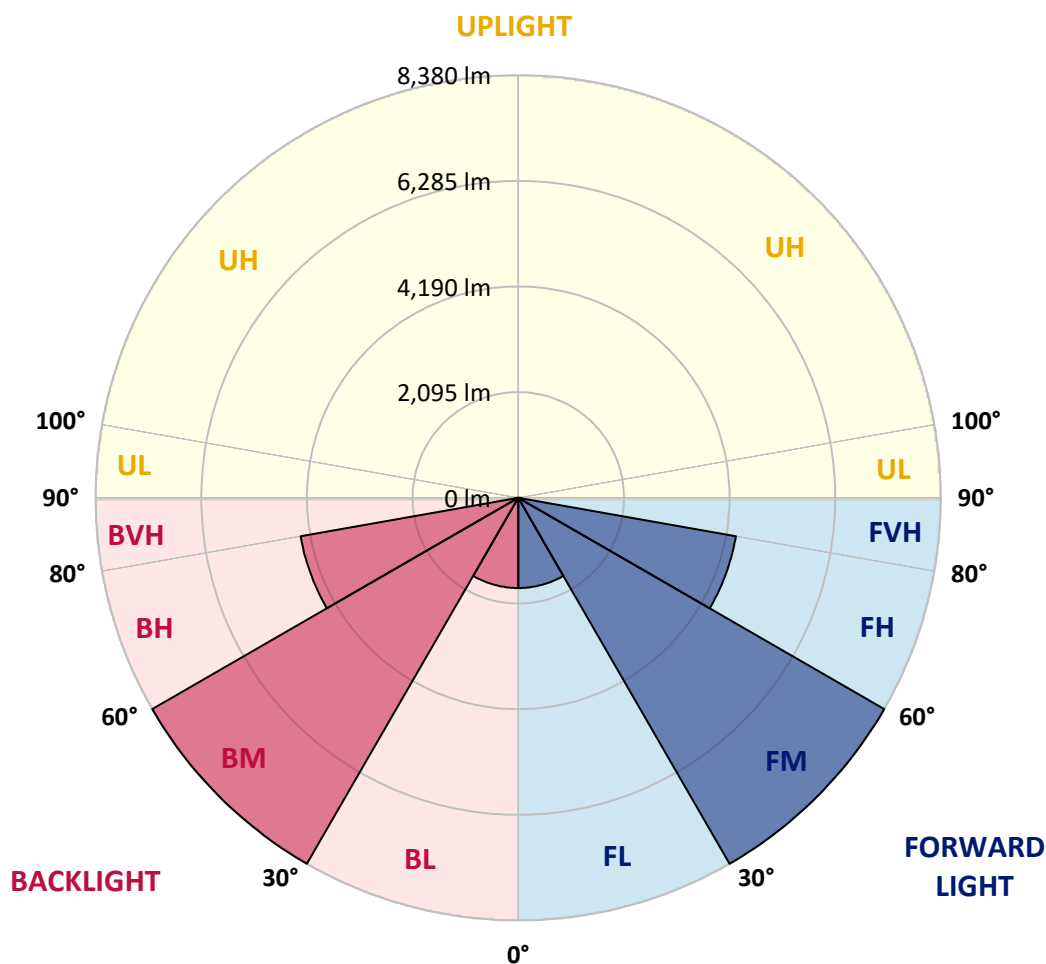
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1788.6	6.1			
FM	(30°-60°)	8379.7	28.7			
FH	(60°-80°)	4383.1	15.0			G2/5000
FVH	(80°-90°)	57.4	0.2			G1/100
BL	(0°-30°)	1788.6	6.1	B3/2500		
BM	(30°-60°)	8379.7	28.7	B4/8500		
BH	(60°-80°)	4383.1	15.0	B4/5000		G2/5000
BVH	(80°-90°)	57.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2
2.5°	3500.7	3488.9	3497.7	3490.4	3484.5	3478.6	3481.6	3491.9	3496.3	3497.7	3497.7
5°	3547.5	3537.3	3541.7	3541.7	3531.4	3528.5	3530.0	3537.3	3546.1	3546.1	3546.1
7.5°	3623.8	3613.5	3623.8	3617.9	3609.1	3606.2	3604.7	3610.6	3623.8	3623.8	3619.4
10°	3716.1	3704.5	3710.3	3707.3	3697.1	3692.7	3691.2	3700.0	3711.7	3710.3	3707.3
12.5°	3817.3	3804.1	3811.5	3802.6	3799.7	3795.3	3795.3	3793.8	3801.1	3795.3	3798.2
15°	3930.2	3921.3	3924.3	3918.5	3922.9	3919.9	3908.2	3902.3	3905.2	3896.4	3897.9
17.5°	4063.6	4043.0	4053.3	4050.4	4050.4	4056.2	4037.2	4029.9	4035.7	4026.9	4034.2
20°	4217.5	4197.0	4201.4	4195.5	4188.2	4194.0	4170.6	4176.5	4180.9	4174.9	4188.2
22.5°	4386.1	4359.6	4358.2	4361.2	4345.0	4346.5	4330.3	4345.0	4353.8	4337.7	4353.8
25°	4559.1	4531.2	4550.3	4542.9	4522.4	4526.8	4515.0	4529.7	4537.1	4516.6	4540.0
27.5°	4742.3	4723.2	4740.8	4745.2	4720.3	4737.9	4720.3	4733.4	4740.8	4710.1	4733.4
30°	4956.3	4937.2	4953.4	4965.1	4935.8	4963.7	4949.0	4957.8	4959.3	4922.6	4944.6
32.5°	5189.4	5160.1	5201.2	5207.0	5174.7	5208.4	5189.4	5201.2	5208.4	5158.6	5192.3
35°	5473.8	5437.1	5484.1	5476.7	5448.9	5476.7	5459.2	5476.7	5494.3	5434.2	5470.8
37.5°	5780.2	5742.0	5791.9	5778.7	5752.3	5771.4	5761.1	5772.8	5800.7	5736.2	5775.8
40°	6117.3	6070.5	6137.9	6114.4	6089.5	6086.6	6092.4	6099.8	6136.4	6064.5	6088.0
42.5°	6478.0	6428.1	6529.2	6492.7	6457.4	6433.9	6453.0	6467.6	6502.9	6422.2	6464.8
45°	6889.8	6832.8	6964.7	6920.7	6864.9	6816.6	6847.4	6869.3	6920.7	6823.9	6873.8
47.5°	7344.3	7279.9	7420.6	7407.4	7316.4	7210.9	7281.3	7344.3	7382.5	7265.2	7304.8
50°	7788.5	7738.6	7923.4	7939.4	7828.0	7680.0	7778.2	7873.5	7883.8	7729.8	7748.9
52.5°	8204.8	8155.0	8423.2	8524.4	8424.7	8248.8	8352.8	8449.6	8371.9	8172.5	8178.5
55°	8537.6	8496.5	8838.1	9099.0	9132.8	8987.6	9049.2	9046.2	8791.2	8484.8	8495.1
57.5°	8618.2	8612.4	9043.4	9595.9	9947.8	9965.4	9843.7	9532.9	8983.2	8571.3	8544.9
60°	8251.8	8288.4	8880.6	9855.5	10793.7	11183.6	10657.3	9770.4	8764.8	8193.1	8125.7
62.5°	7155.2	7252.0	7965.9	9538.9	11476.8	12585.1	11309.6	9409.8	7867.7	7121.5	7077.5
65°	5127.9	5296.4	6085.1	8140.3	11415.2	13816.4	11215.9	8074.3	6143.7	5283.3	5220.2
67.5°	2326.4	2497.9	3167.9	5573.4	9922.9	13482.1	9899.4	5632.1	3326.2	2506.7	2470.0
70°	843.0	872.3	1087.7	2231.1	6341.6	10742.3	6612.8	2247.3	1156.6	929.4	917.7
72.5°	510.1	514.6	560.0	798.9	2203.3	6522.0	2297.1	825.3	571.7	507.2	516.0
75°	324.0	321.0	398.7	488.1	781.4	2200.4	819.5	488.1	397.3	362.1	365.0
77.5°	233.1	240.4	285.9	365.0	492.5	746.2	483.8	348.9	285.9	234.5	238.9
80°	174.5	178.9	208.2	284.4	345.9	464.7	307.8	258.0	215.5	146.6	151.0
82.5°	126.1	126.1	136.3	206.7	211.0	250.7	167.1	181.7	142.2	104.0	104.0
85°	74.7	73.3	85.1	123.1	110.0	92.4	76.3	111.4	89.4	64.5	63.0
87.5°	26.3	27.9	26.3	35.2	29.3	24.9	23.5	30.7	24.9	22.0	20.5
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)