

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: P970383

Luminaire Tested: **NAV-SB6B-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38131 lumens
Efficiency: N/A
Efficacy: 173.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 220.4
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



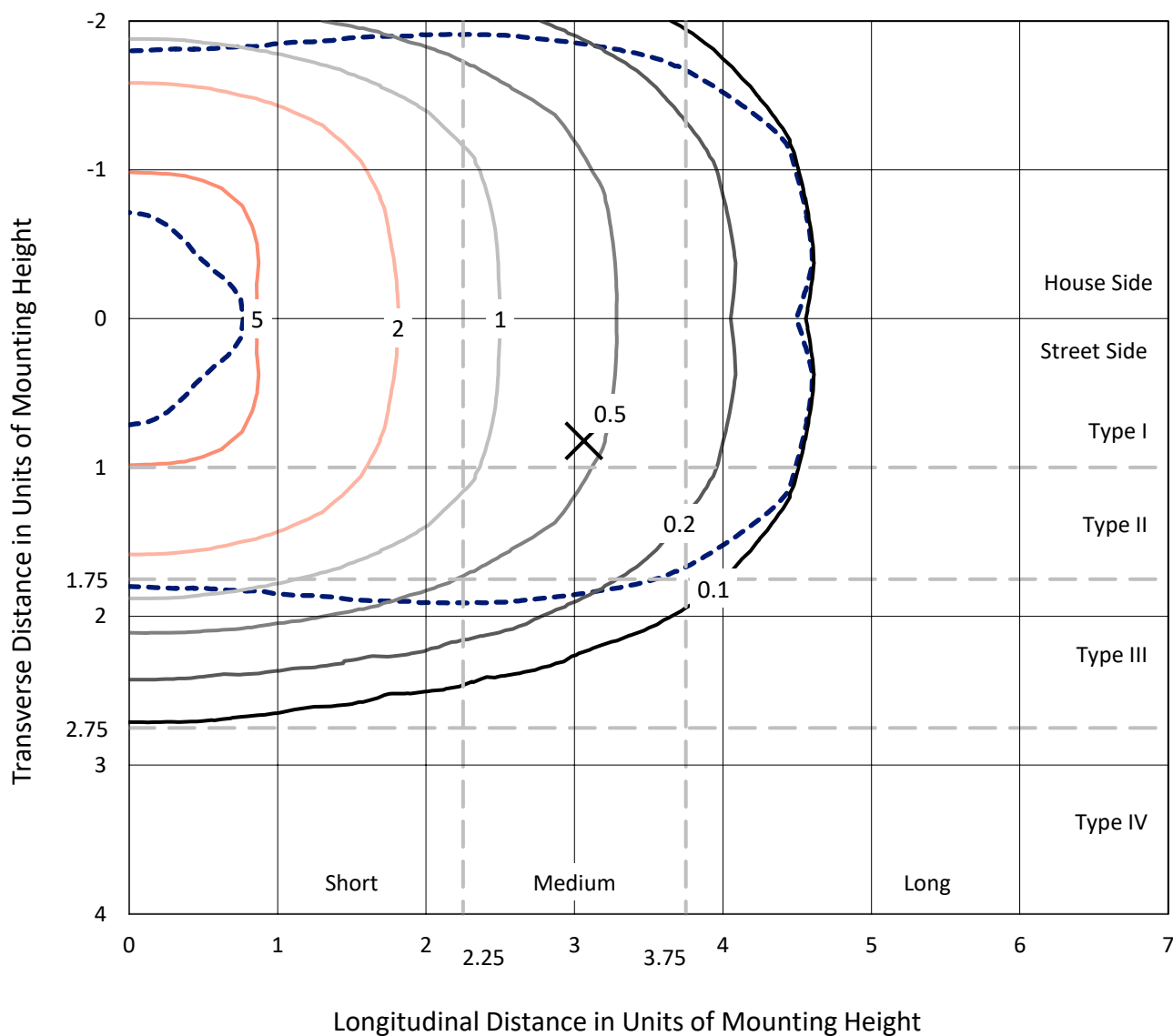
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

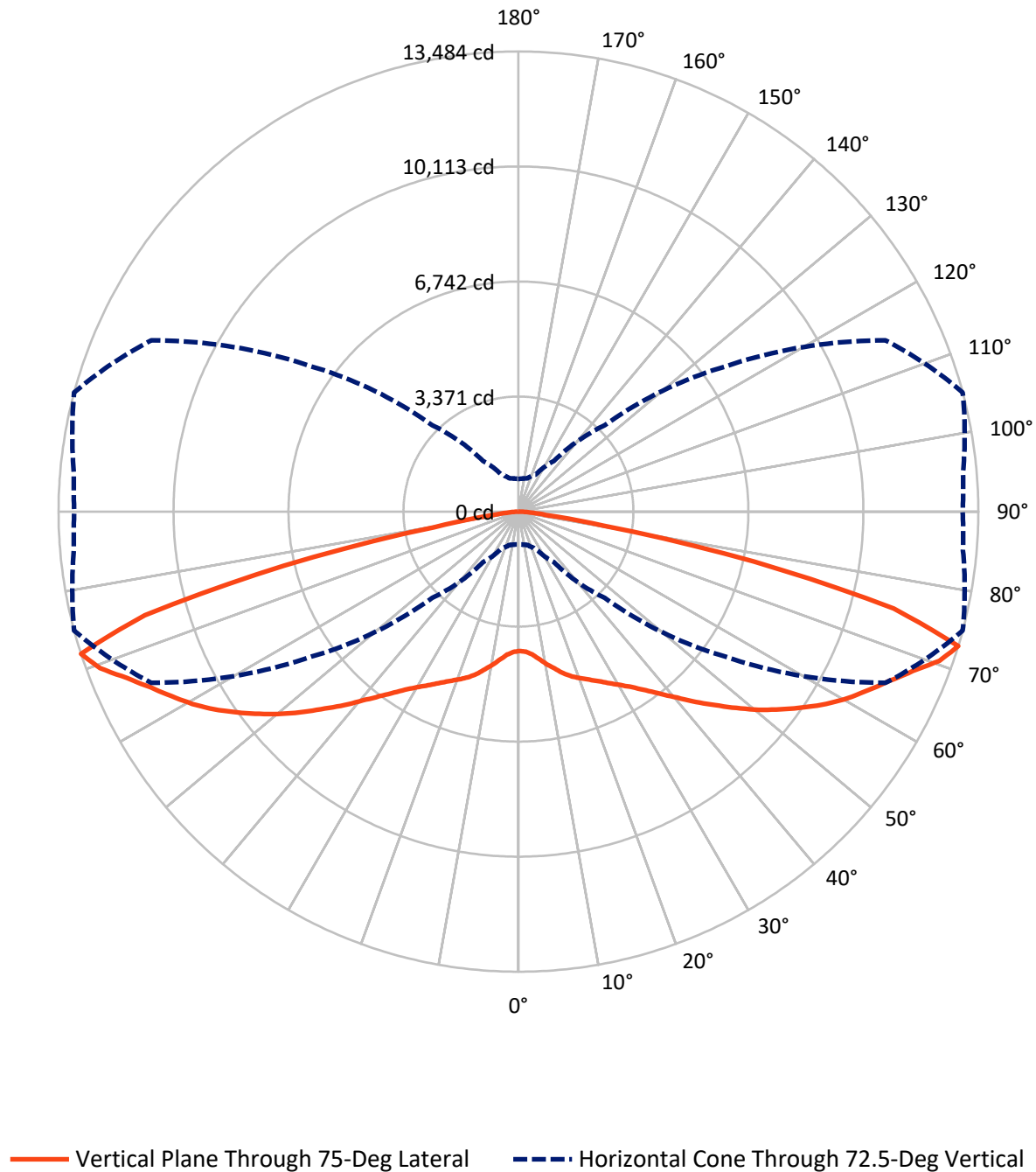
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19065.5	0.0	19065.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19065.5	0.0	19065.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38131.0	0.0	38131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.1	1.0
10°-20°	1319.7	3.5
20°-30°	2550.0	6.7
30°-40°	4305.8	11.3
40°-50°	6828.4	17.9
50°-60°	9142.5	24.0
60°-70°	8700.7	22.8
70°-80°	4540.2	11.9
80°-90°	343.7	0.9
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°	38131.0	100.0
0°-180°	38131.0	100.0

Coefficient of Utilization



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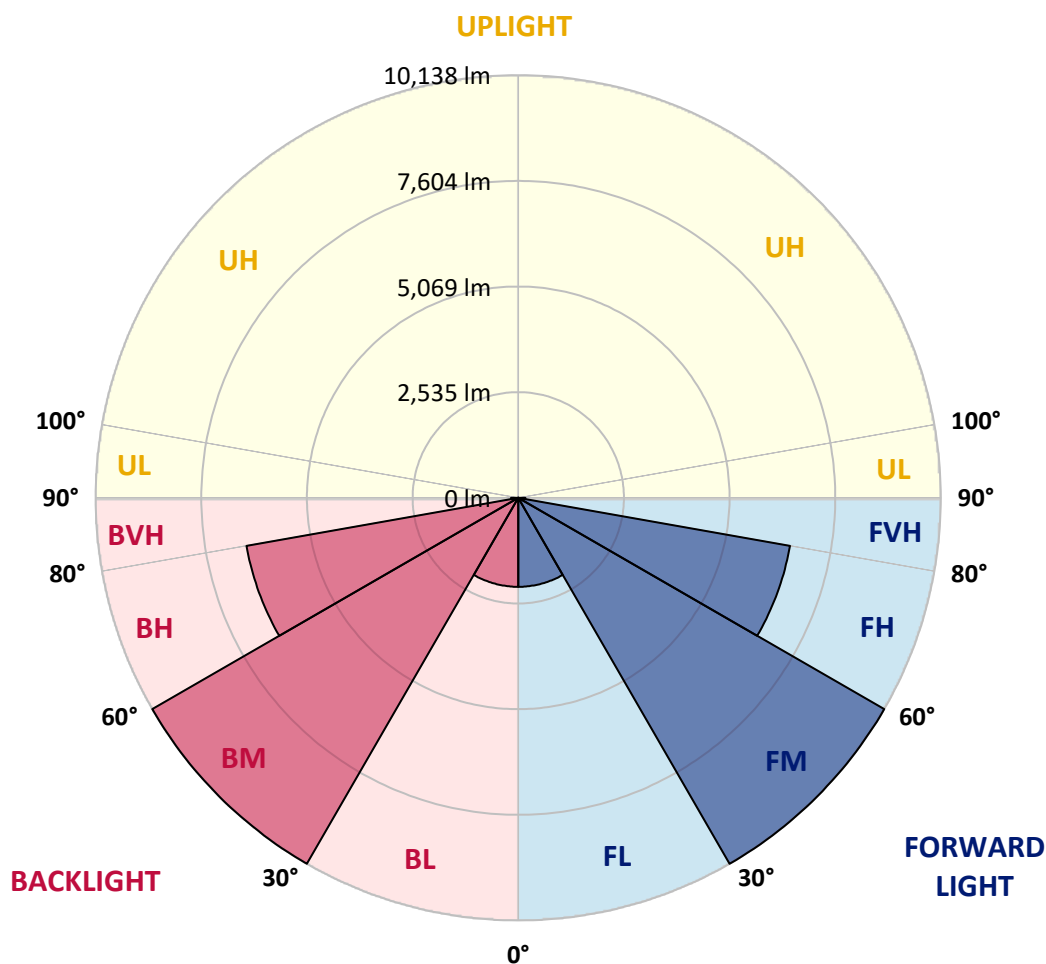
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2134.9	5.6			
FM	(30°-60°)	10138.4	26.6			
FH	(60°-80°)	6620.5	17.4			G3/7500
FVH	(80°-90°)	171.8	0.5			G2/225
BL	(0°-30°)	2134.9	5.6	B3/2500		
BM	(30°-60°)	10138.4	26.6	B5		
BH	(60°-80°)	6620.5	17.4	B5		G5
BVH	(80°-90°)	171.8	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4084.5	4084.5	4084.5	4084.5	4084.5	4084.5	4084.5	4084.5	4084.5	4084.5	4084.5
2.5°	4084.5	4080.6	4084.5	4088.4	4086.5	4086.5	4096.2	4102.0	4113.7	4111.8	4109.8
5°	4057.3	4055.3	4070.9	4088.4	4102.0	4125.4	4154.6	4176.1	4203.3	4209.2	4209.2
7.5°	4043.6	4037.8	4065.0	4096.2	4139.1	4197.5	4253.9	4312.3	4359.0	4374.6	4378.5
10°	4053.4	4055.3	4092.3	4150.7	4218.9	4300.6	4380.4	4479.8	4545.9	4561.5	4577.0
12.5°	4098.2	4094.3	4156.6	4250.0	4343.4	4446.7	4540.0	4649.1	4721.2	4758.2	4773.7
15°	4180.0	4172.2	4259.7	4398.0	4534.2	4654.9	4730.9	4834.1	4917.7	4964.5	4982.0
17.5°	4277.2	4281.1	4396.0	4575.1	4754.3	4890.5	4962.5	5015.1	5079.4	5120.3	5139.8
20°	4448.6	4456.4	4584.8	4797.1	5001.5	5157.2	5215.6	5196.1	5213.7	5244.8	5268.2
22.5°	4678.3	4682.2	4826.3	5056.0	5270.1	5441.5	5480.4	5400.6	5351.9	5373.4	5388.9
25°	4945.0	4970.3	5114.4	5350.0	5570.0	5733.5	5751.1	5630.3	5509.6	5515.4	5525.2
27.5°	5270.1	5293.5	5439.6	5673.2	5897.0	6039.2	6037.2	5875.6	5698.5	5653.7	5667.3
30°	5622.5	5647.9	5797.7	6039.2	6247.5	6372.1	6344.9	6152.0	5899.0	5815.2	5825.0
32.5°	6041.1	6056.7	6208.5	6449.9	6642.7	6741.9	6685.6	6448.0	6132.6	6037.2	6060.6
35°	6547.3	6570.7	6683.6	6911.4	7080.7	7162.5	7067.1	6786.7	6432.4	6325.4	6341.0
37.5°	7125.5	7109.9	7238.4	7440.9	7581.1	7631.7	7501.3	7168.3	6775.0	6648.6	6671.9
40°	7729.0	7721.2	7861.4	8056.1	8132.0	8163.2	7970.4	7606.4	7170.3	7034.0	7078.8
42.5°	8276.2	8270.3	8459.1	8675.2	8766.7	8731.7	8488.3	8071.7	7627.8	7472.0	7511.0
45°	8714.1	8706.3	8938.0	9241.7	9420.9	9362.5	9035.4	8585.7	8091.1	7929.6	7966.6
47.5°	9051.0	9054.8	9304.0	9679.8	9993.2	10014.7	9594.1	9109.4	8601.2	8418.2	8472.8
50°	9294.3	9306.0	9572.7	9989.3	10417.7	10606.5	10164.5	9646.7	9128.9	8922.4	8984.7
52.5°	9354.7	9376.1	9697.3	10185.9	10690.2	11050.4	10744.8	10162.6	9629.2	9432.6	9483.2
55°	9033.4	9076.3	9483.2	10170.4	10857.6	11342.4	11254.8	10686.3	10133.5	9930.9	9987.4
57.5°	8295.5	8355.9	8831.0	9728.5	10820.6	11542.9	11650.0	11188.6	10637.7	10443.0	10487.7
60°	7261.8	7333.9	7789.4	8768.7	10298.9	11616.9	11928.4	11677.3	11101.0	10912.2	10953.0
62.5°	5702.4	5795.8	6341.0	7489.6	9197.0	11272.3	12165.9	12119.2	11517.6	11282.1	11309.3
65°	3658.1	3757.4	4331.8	5688.7	7727.1	10217.1	12239.9	12549.5	11957.6	11628.6	11669.5
67.5°	2205.8	2250.6	2534.8	3447.9	5647.9	8626.5	11613.0	13026.4	12471.6	12062.7	12093.9
70°	1411.4	1436.7	1606.2	2024.8	3192.9	6294.2	10059.5	13116.0	13094.6	12508.6	12504.7
72.5°	957.9	965.7	1010.4	1199.2	1806.7	3576.4	7419.5	11873.9	13484.0	13082.9	13020.6
75°	700.9	743.7	815.7	848.8	1026.0	1787.2	4251.9	8342.3	11363.9	11539.0	11114.6
77.5°	521.7	523.7	623.0	661.9	732.1	952.0	1798.9	4656.9	7055.4	7407.8	6607.7
80°	442.0	418.6	416.7	533.4	550.9	593.8	804.0	1608.1	2527.0	1532.2	1158.4
82.5°	368.0	342.7	309.5	416.7	375.8	364.1	348.5	654.2	804.0	395.2	336.8
85°	257.0	245.3	233.6	272.5	214.1	183.0	167.4	305.7	338.8	167.4	148.0
87.5°	111.0	114.9	116.8	120.7	89.6	64.3	64.3	85.7	85.7	66.2	48.7
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)