

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: P966167

Luminaire Tested: **NAV-SB4B-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966167
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-SB4B-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 25201.7 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 147
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

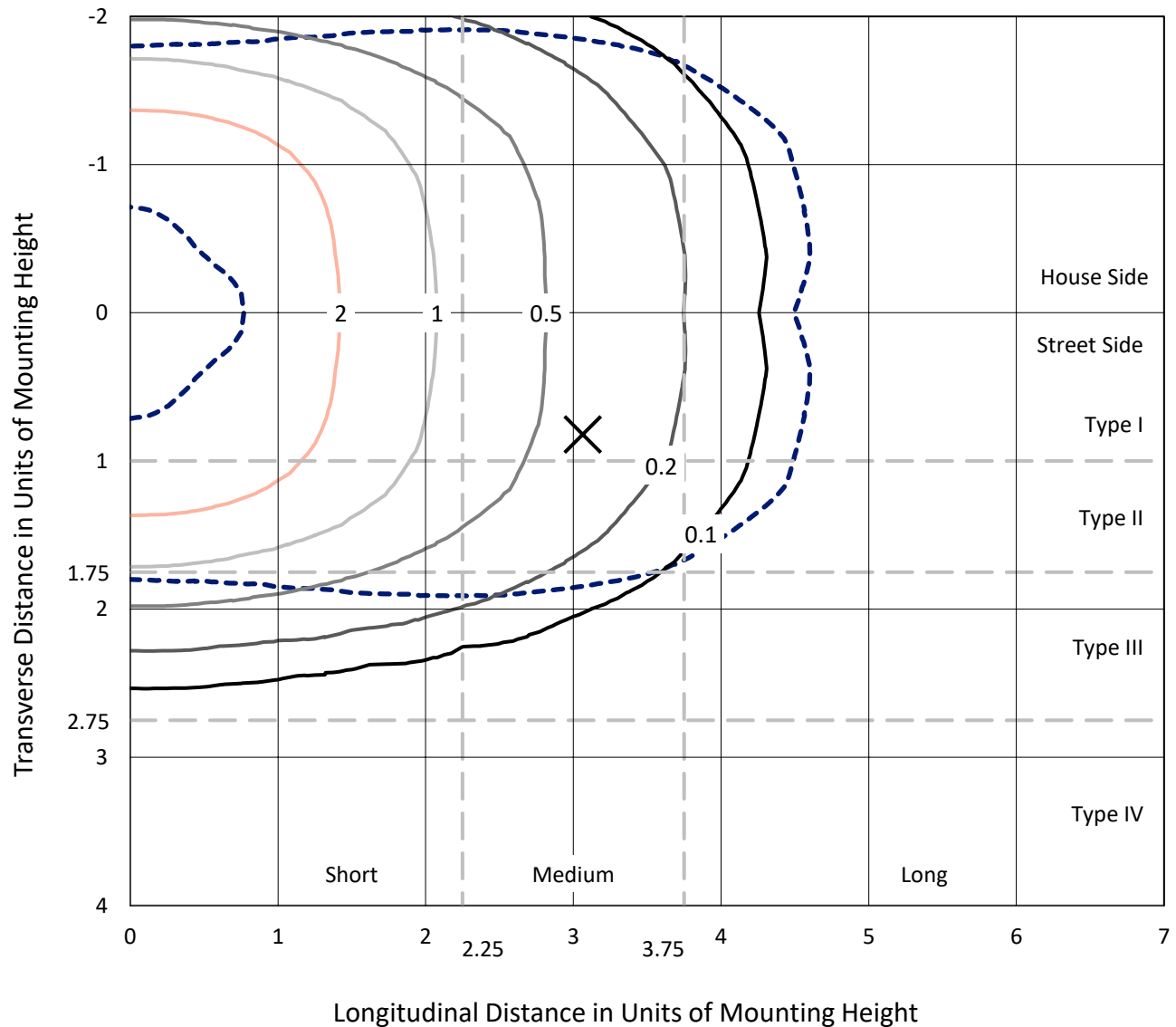


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Iso-Footcandle Lines of Horizontal Illumination

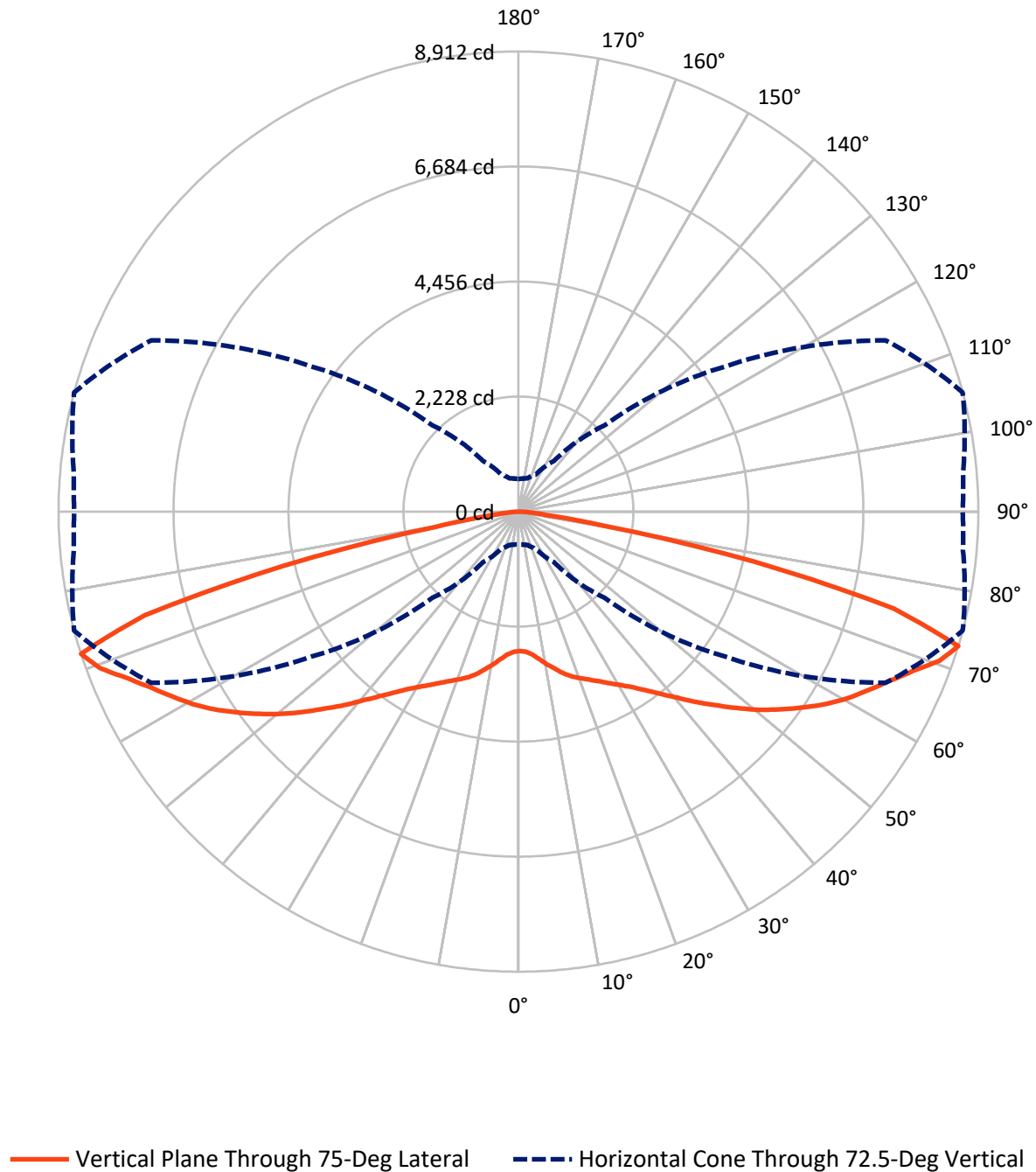
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	12600.8	0.0	12600.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12600.8	0.0	12600.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	25201.7	0.0	25201.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	1.0
10°-20°	872.2	3.5
20°-30°	1685.3	6.7
30°-40°	2845.8	11.3
40°-50°	4513.1	17.9
50°-60°	6042.5	24.0
60°-70°	5750.5	22.8
70°-80°	3000.7	11.9
80°-90°	227.1	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°	25201.7	100.0
0°-180°	25201.7	100.0

Coefficient of Utilization



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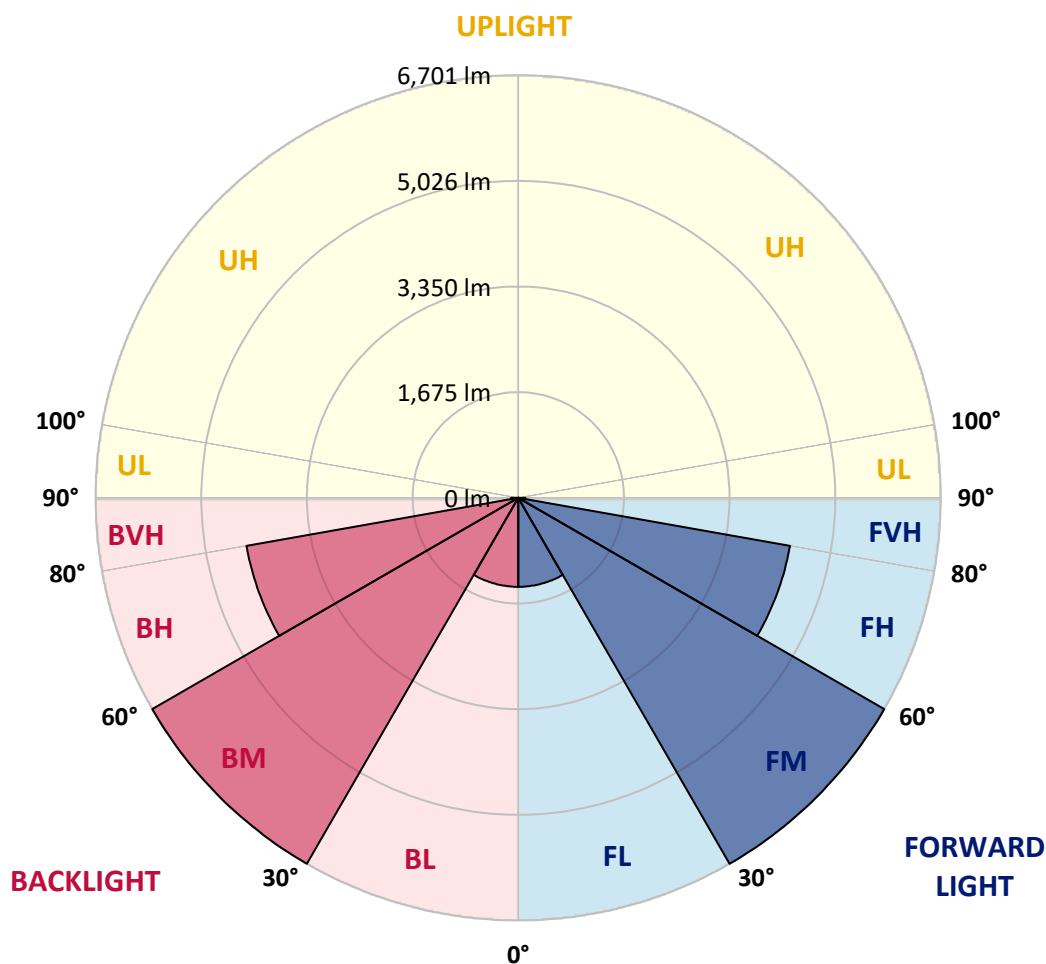
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1411.0	5.6			
FM	(30°-60°)	6700.7	26.6			
FH	(60°-80°)	4375.6	17.4			G2/5000
FVH	(80°-90°)	113.6	0.5			G2/225
BL	(0°-30°)	1411.0	5.6	B3/2500		
BM	(30°-60°)	6700.7	26.6	B4/8500		
BH	(60°-80°)	4375.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	113.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5
2.5°	2699.5	2697.0	2699.5	2702.1	2700.9	2700.9	2707.2	2711.1	2718.8	2717.6	2716.2
5°	2681.5	2680.3	2690.5	2702.1	2711.1	2726.6	2745.9	2760.0	2778.1	2781.8	2781.8
7.5°	2672.5	2668.7	2686.7	2707.2	2735.6	2774.2	2811.5	2850.1	2881.0	2891.3	2893.9
10°	2678.9	2680.3	2704.7	2743.3	2788.3	2842.4	2895.1	2960.7	3004.5	3014.8	3025.1
12.5°	2708.6	2706.0	2747.2	2808.9	2870.7	2938.9	3000.7	3072.7	3120.3	3144.8	3155.1
15°	2762.6	2757.5	2815.4	2906.7	2996.8	3076.5	3126.8	3194.9	3250.3	3281.1	3292.7
17.5°	2827.0	2829.5	2905.5	3023.9	3142.1	3232.2	3279.9	3314.6	3357.1	3384.0	3397.0
20°	2940.2	2945.3	3030.2	3170.5	3305.6	3408.5	3447.2	3434.3	3445.8	3466.4	3481.9
22.5°	3092.0	3094.6	3189.8	3341.6	3483.2	3596.4	3622.1	3569.4	3537.2	3551.3	3561.7
25°	3268.3	3285.0	3380.2	3535.9	3681.3	3789.4	3801.0	3721.2	3641.4	3645.3	3651.8
27.5°	3483.2	3498.6	3595.1	3749.6	3897.5	3991.5	3990.1	3883.3	3766.3	3736.6	3745.7
30°	3716.0	3732.7	3831.9	3991.5	4129.1	4211.4	4193.5	4066.1	3898.8	3843.4	3849.9
32.5°	3992.7	4003.0	4103.4	4262.9	4390.3	4455.9	4418.6	4261.6	4053.2	3990.1	4005.6
35°	4327.2	4342.7	4417.3	4567.9	4679.8	4733.9	4670.8	4485.5	4251.4	4180.6	4190.8
37.5°	4709.5	4699.1	4784.1	4917.8	5010.5	5043.9	4957.7	4737.8	4477.8	4394.2	4409.7
40°	5108.3	5103.2	5195.8	5324.5	5374.7	5395.2	5267.9	5027.2	4739.0	4649.0	4678.5
42.5°	5469.9	5466.0	5590.9	5733.6	5794.1	5771.0	5610.1	5334.7	5041.4	4938.4	4964.2
45°	5759.4	5754.2	5907.4	6108.1	6226.5	6187.8	5971.6	5674.5	5347.6	5240.8	5265.3
47.5°	5982.0	5984.6	6149.3	6397.6	6604.8	6618.9	6341.0	6020.5	5684.8	5563.8	5599.8
50°	6142.8	6150.5	6326.8	6602.2	6885.2	7010.1	6718.0	6375.7	6033.5	5897.0	5938.2
52.5°	6182.7	6196.8	6409.2	6732.2	7065.4	7303.4	7101.4	6716.7	6364.1	6234.2	6267.7
55°	5970.4	5998.7	6267.7	6721.8	7176.0	7496.4	7438.5	7062.9	6697.5	6563.6	6600.9
57.5°	5482.7	5522.6	5836.6	6429.7	7151.6	7629.0	7699.8	7394.9	7030.7	6902.0	6931.6
60°	4799.5	4847.1	5148.2	5795.5	6806.8	7677.9	7883.8	7717.7	7337.0	7212.1	7239.2
62.5°	3768.8	3830.6	4190.8	4950.0	6078.5	7450.1	8040.7	8009.9	7612.3	7456.6	7474.6
65°	2417.8	2483.4	2862.9	3759.8	5107.1	6752.7	8089.6	8294.2	7903.1	7685.7	7712.6
67.5°	1457.9	1487.5	1675.4	2278.8	3732.7	5701.5	7675.3	8609.5	8242.7	7972.6	7993.2
70°	932.9	949.6	1061.6	1338.2	2110.3	4160.0	6648.6	8668.6	8654.5	8267.2	8264.7
72.5°	633.0	638.2	667.8	792.6	1194.1	2363.8	4903.7	7847.7	8911.9	8646.8	8605.6
75°	463.2	491.5	539.2	561.0	678.1	1181.2	2810.2	5513.6	7510.6	7626.4	7345.9
77.5°	344.8	346.1	411.7	437.5	483.8	629.2	1188.9	3077.9	4663.1	4896.0	4367.1
80°	292.1	276.6	275.3	352.6	364.2	392.5	531.5	1062.8	1670.1	1012.7	765.6
82.5°	243.2	226.4	204.6	275.3	248.4	240.6	230.3	432.3	531.5	261.2	222.6
85°	169.8	162.2	154.4	180.1	141.6	121.0	110.7	202.0	223.9	110.7	97.8
87.5°	73.4	76.0	77.2	79.7	59.1	42.4	42.4	56.6	56.6	43.8	32.2
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)