

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: P967686

Luminaire Tested: **NAV-SB5A-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967686
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-SB5A-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23917.3 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

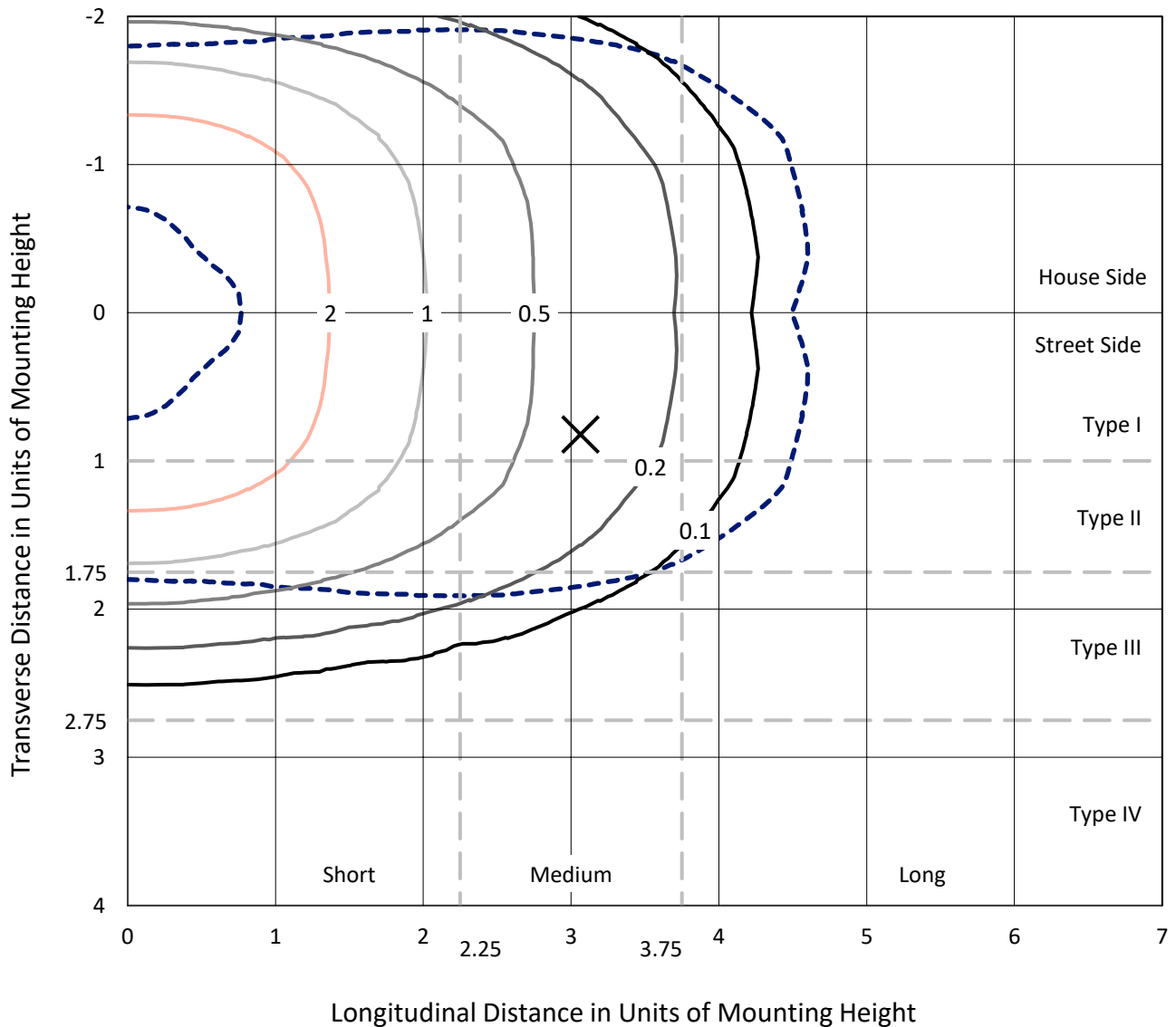
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

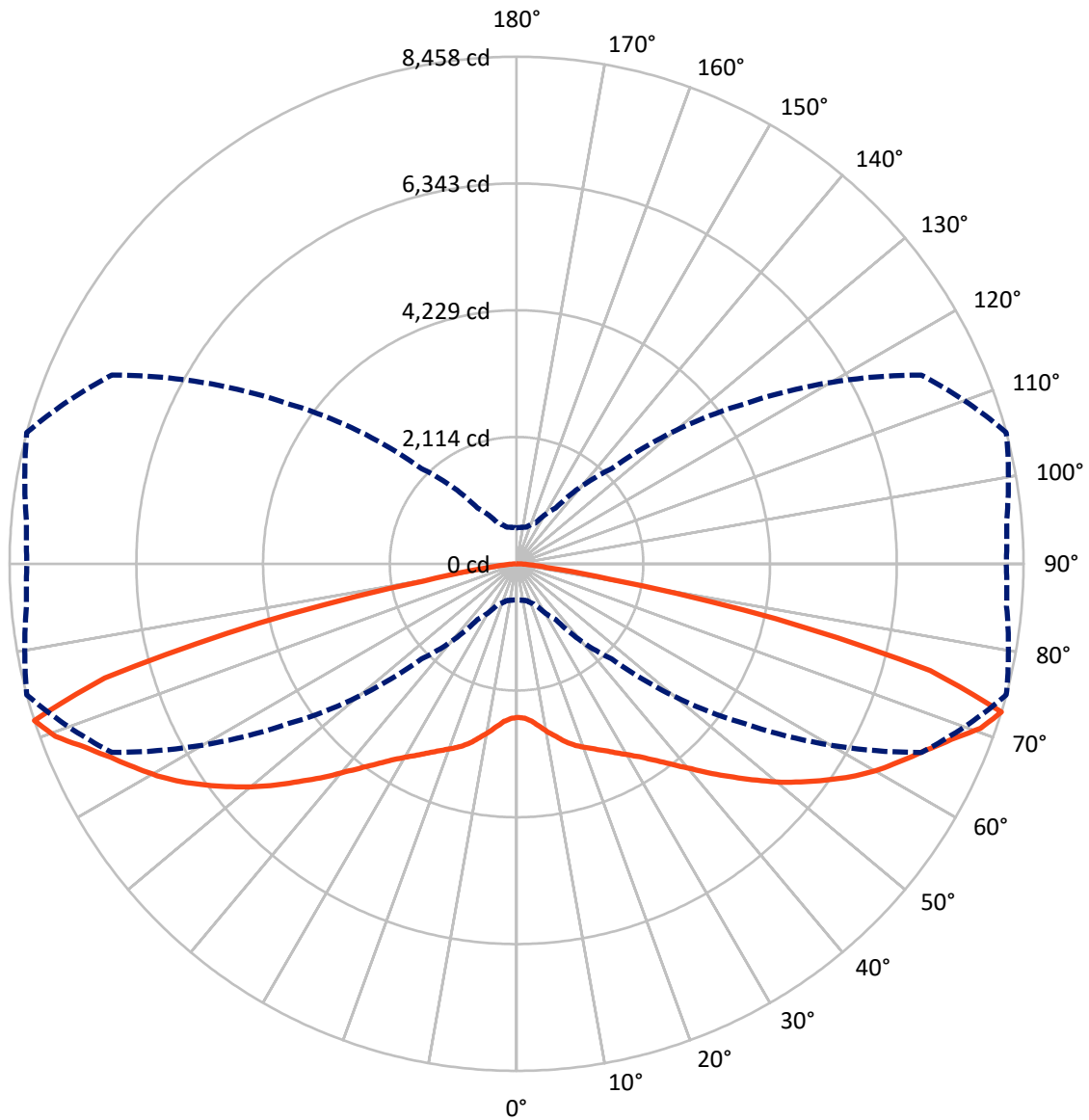
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11958.7	0.0	11958.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11958.7	0.0	11958.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	23917.3	0.0	23917.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.0
10°-20°	827.7	3.5
20°-30°	1599.4	6.7
30°-40°	2700.7	11.3
40°-50°	4283.1	17.9
50°-60°	5734.5	24.0
60°-70°	5457.4	22.8
70°-80°	2847.8	11.9
80°-90°	215.6	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°	23917.3	100.0
0°-180°	23917.3	100.0

Coefficient of Utilization

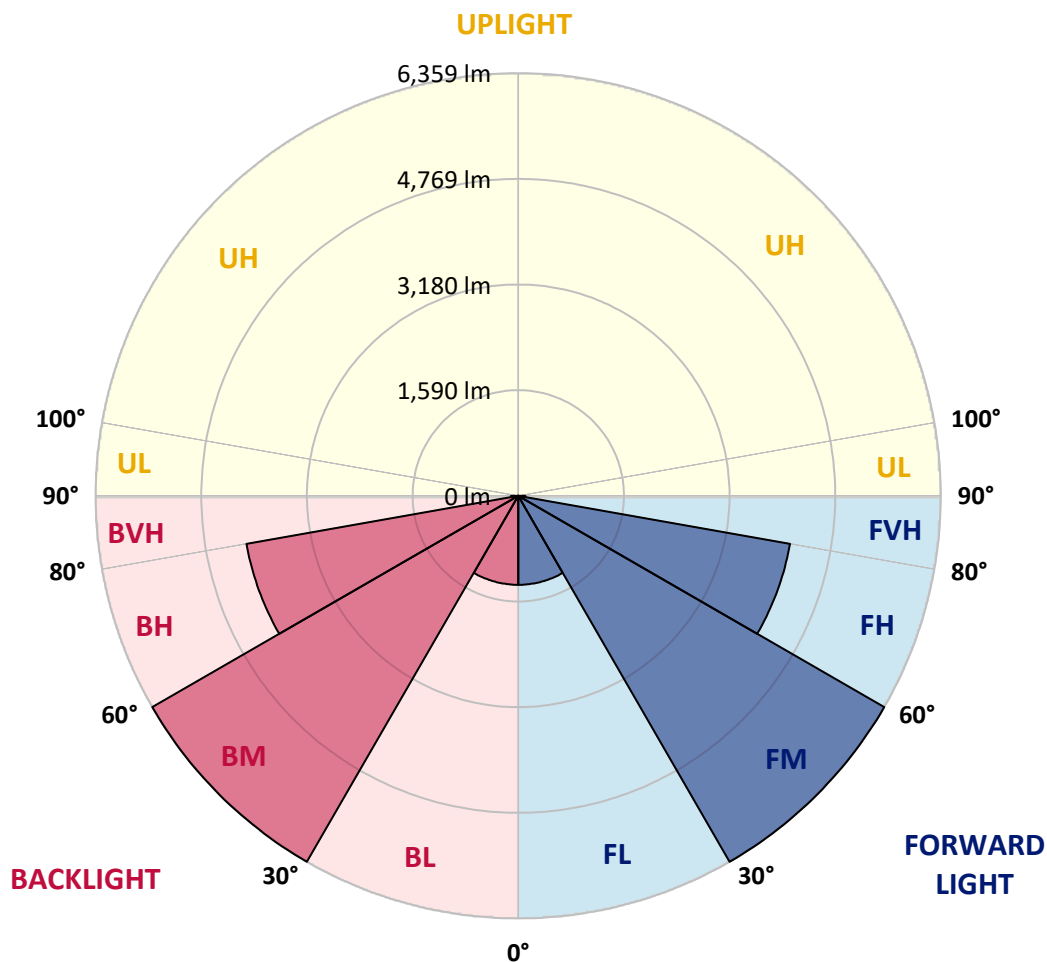


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.1	5.6			
FM (30°-60°)	6359.2	26.6			
FH (60°-80°)	4152.6	17.4			G2/5000
FVH (80°-90°)	107.8	0.5			G2/225
BL (0°-30°)	1339.1	5.6	B3/2500		
BM (30°-60°)	6359.2	26.6	B4/8500		
BH (60°-80°)	4152.6	17.4	B4/5000		G4/5000
BVH (80°-90°)	107.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0
2.5°	2562.0	2559.5	2562.0	2564.4	2563.2	2563.2	2569.3	2573.0	2580.3	2579.1	2577.9
5°	2544.9	2543.6	2553.4	2564.4	2573.0	2587.6	2606.0	2619.4	2636.5	2640.1	2640.1
7.5°	2536.4	2532.7	2549.8	2569.3	2596.1	2632.8	2668.2	2704.9	2734.2	2743.9	2746.4
10°	2542.4	2543.6	2566.9	2603.5	2646.2	2697.5	2747.6	2809.8	2851.3	2861.2	2870.9
12.5°	2570.5	2568.0	2607.2	2665.8	2724.3	2789.1	2847.8	2916.1	2961.3	2984.5	2994.2
15°	2621.8	2616.9	2671.9	2758.6	2844.1	2919.8	2967.4	3032.2	3084.6	3114.0	3124.9
17.5°	2682.8	2685.3	2757.4	2869.7	2982.0	3067.5	3112.7	3145.7	3186.0	3211.6	3223.8
20°	2790.4	2795.2	2875.8	3008.9	3137.1	3234.8	3271.5	3259.3	3270.3	3289.7	3304.4
22.5°	2934.5	2936.8	3027.2	3171.4	3305.6	3413.1	3437.5	3387.5	3357.0	3370.4	3380.1
25°	3101.8	3117.6	3207.9	3355.7	3493.7	3596.3	3607.3	3531.5	3455.9	3459.5	3465.6
27.5°	3305.6	3320.3	3411.9	3558.4	3698.9	3788.0	3786.8	3685.4	3574.3	3546.2	3554.8
30°	3526.7	3542.6	3636.6	3788.0	3918.7	3996.8	3979.8	3858.8	3700.0	3647.6	3653.7
32.5°	3789.2	3799.0	3894.3	4045.7	4166.5	4228.8	4193.5	4044.4	3846.6	3786.8	3801.4
35°	4106.8	4121.4	4192.2	4335.1	4441.3	4492.6	4432.8	4256.9	4034.7	3967.6	3977.3
37.5°	4469.4	4459.7	4540.2	4667.2	4755.2	4787.0	4705.1	4496.3	4249.6	4170.2	4184.9
40°	4847.9	4843.1	4931.0	5053.1	5100.7	5120.3	4999.4	4771.1	4497.5	4412.0	4440.1
42.5°	5191.1	5187.4	5305.9	5441.4	5498.8	5476.9	5324.3	5062.9	4784.5	4686.8	4711.2
45°	5465.9	5461.0	5606.3	5796.8	5909.1	5872.5	5667.3	5385.2	5075.1	4973.7	4997.0
47.5°	5677.2	5679.6	5835.8	6071.6	6268.2	6281.6	6017.9	5713.8	5395.1	5280.3	5314.4
50°	5829.8	5837.1	6004.4	6265.7	6534.4	6652.9	6375.6	6050.8	5726.0	5596.5	5635.7
52.5°	5867.6	5881.0	6082.6	6389.0	6705.3	6931.3	6739.6	6374.4	6039.8	5916.5	5948.3
55°	5666.1	5693.1	5948.3	6379.3	6810.4	7114.4	7059.5	6702.9	6356.1	6229.1	6264.5
57.5°	5203.3	5241.1	5539.1	6102.1	6787.1	7240.2	7307.3	7018.0	6672.3	6550.3	6578.3
60°	4554.9	4600.1	4885.9	5500.0	6459.9	7286.6	7482.0	7324.4	6963.0	6844.5	6870.2
62.5°	3576.7	3635.4	3977.3	4697.8	5768.7	7070.4	7631.0	7601.7	7224.3	7076.6	7093.7
65°	2294.6	2356.8	2717.1	3568.2	4846.7	6408.6	7677.4	7871.6	7500.3	7293.9	7319.6
67.5°	1383.5	1411.6	1590.0	2162.6	3542.6	5410.9	7284.2	8170.7	7822.7	7566.2	7585.8
70°	885.3	901.2	1007.5	1270.0	2002.6	3948.0	6309.7	8226.9	8213.4	7845.9	7843.5
72.5°	600.9	605.7	633.8	752.2	1133.2	2243.2	4653.8	7447.9	8457.7	8206.2	8167.1
75°	439.6	466.5	511.7	532.4	643.6	1121.0	2666.9	5232.6	7127.8	7237.7	6971.5
77.5°	327.3	328.5	390.7	415.2	459.2	597.2	1128.3	2921.0	4425.4	4646.5	4144.6
80°	277.2	262.5	261.4	334.6	345.6	372.5	504.3	1008.7	1585.1	961.0	726.6
82.5°	230.8	214.9	194.1	261.4	235.6	228.4	218.6	410.3	504.3	247.8	211.3
85°	161.2	153.9	146.6	171.0	134.4	114.8	105.1	191.7	212.5	105.1	92.8
87.5°	69.6	72.1	73.3	75.7	56.2	40.3	40.3	53.7	53.7	41.5	30.5
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)