

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: P964586

Luminaire Tested: **NAV-SB3C-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964586
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-SB3C-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25092 lumens
Efficiency: N/A
Efficacy: 168.3 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): 149.1
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



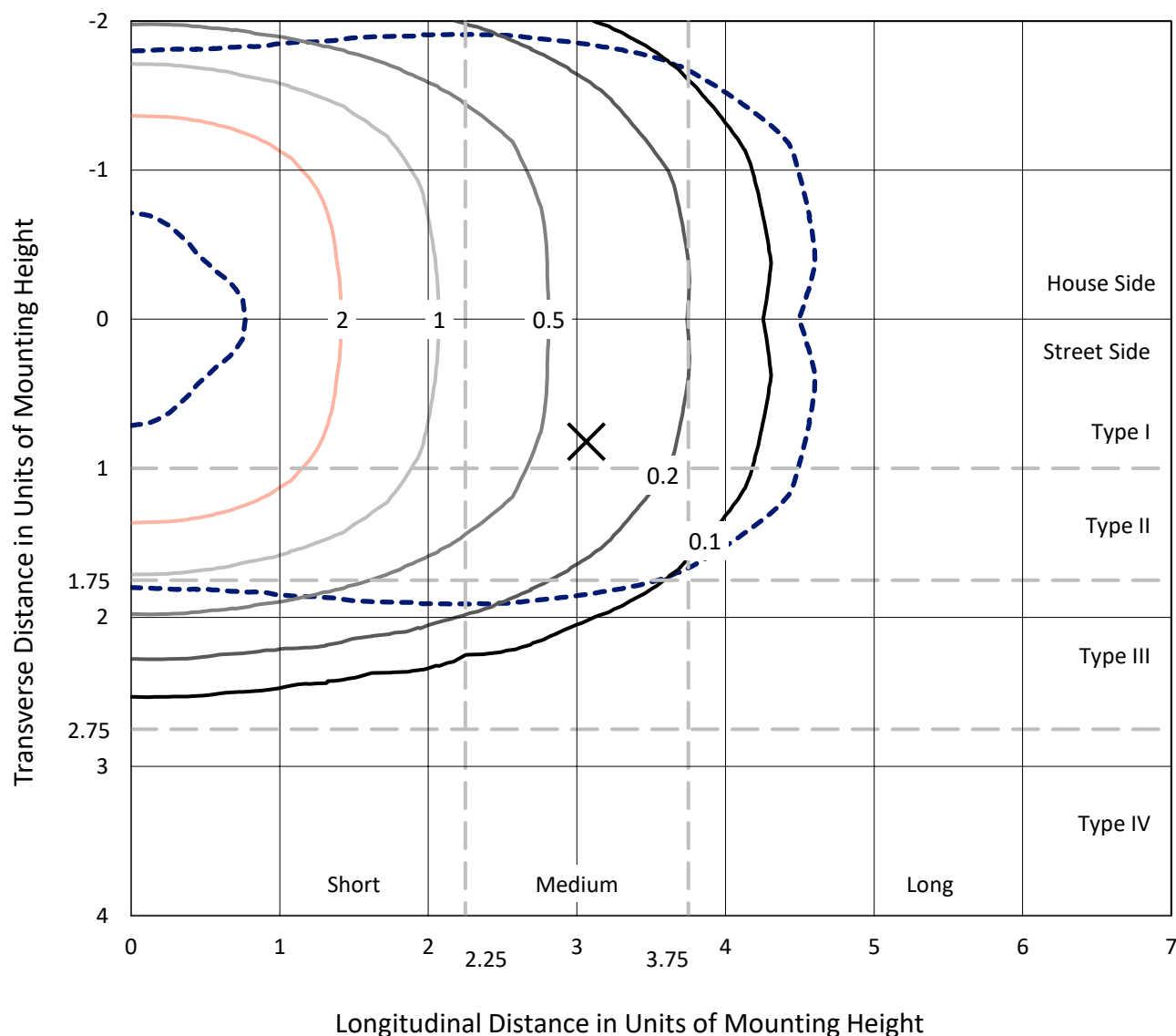
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

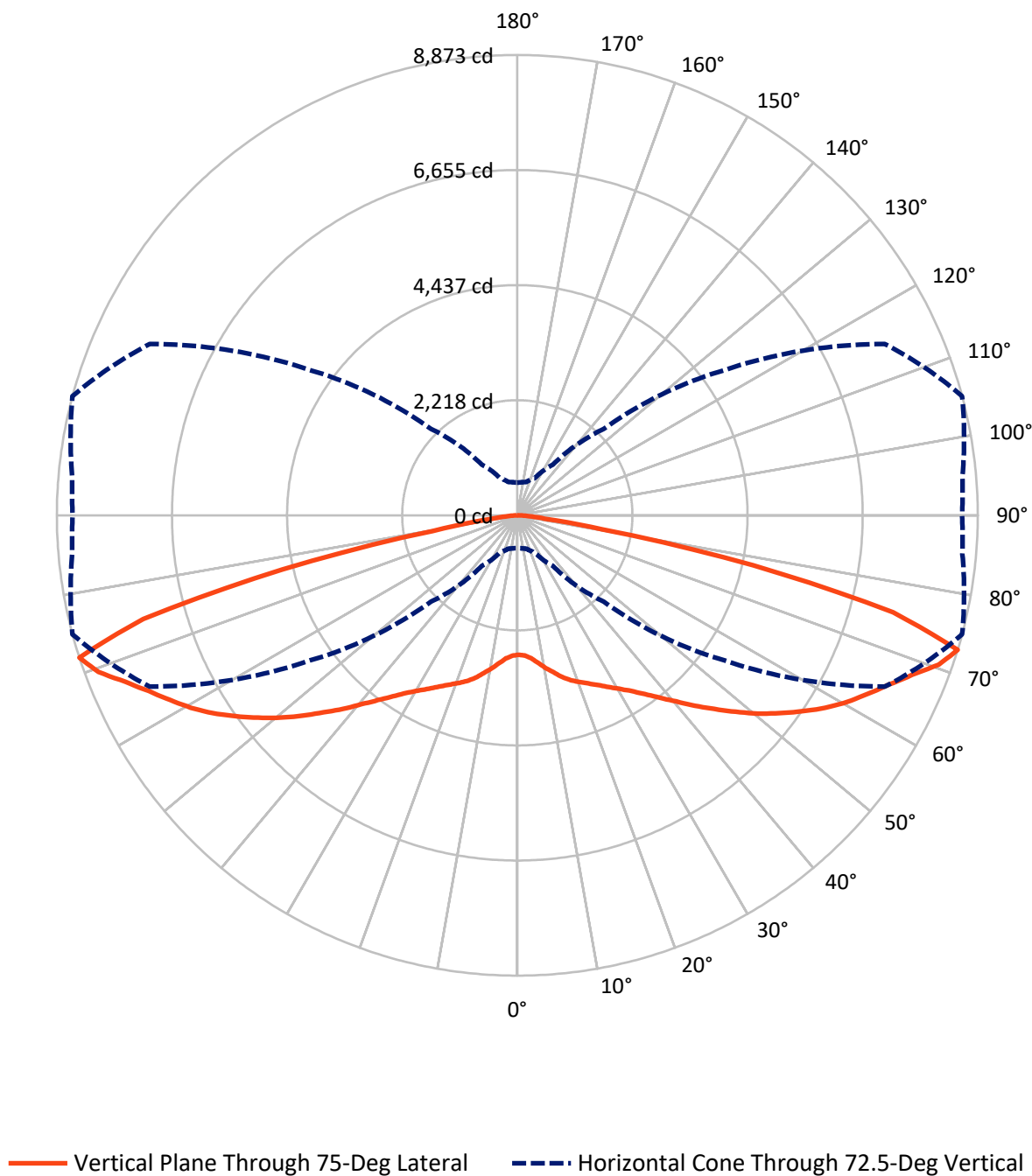
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	12546.0	0.0	12546.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12546.0	0.0	12546.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25092.0	0.0	25092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	1.0
10°-20°	868.4	3.5
20°-30°	1678.0	6.7
30°-40°	2833.4	11.3
40°-50°	4493.4	17.9
50°-60°	6016.2	24.0
60°-70°	5725.5	22.8
70°-80°	2987.7	11.9
80°-90°	226.1	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°	25092.0	100.0
0°-180°	25092.0	100.0

Coefficient of Utilization



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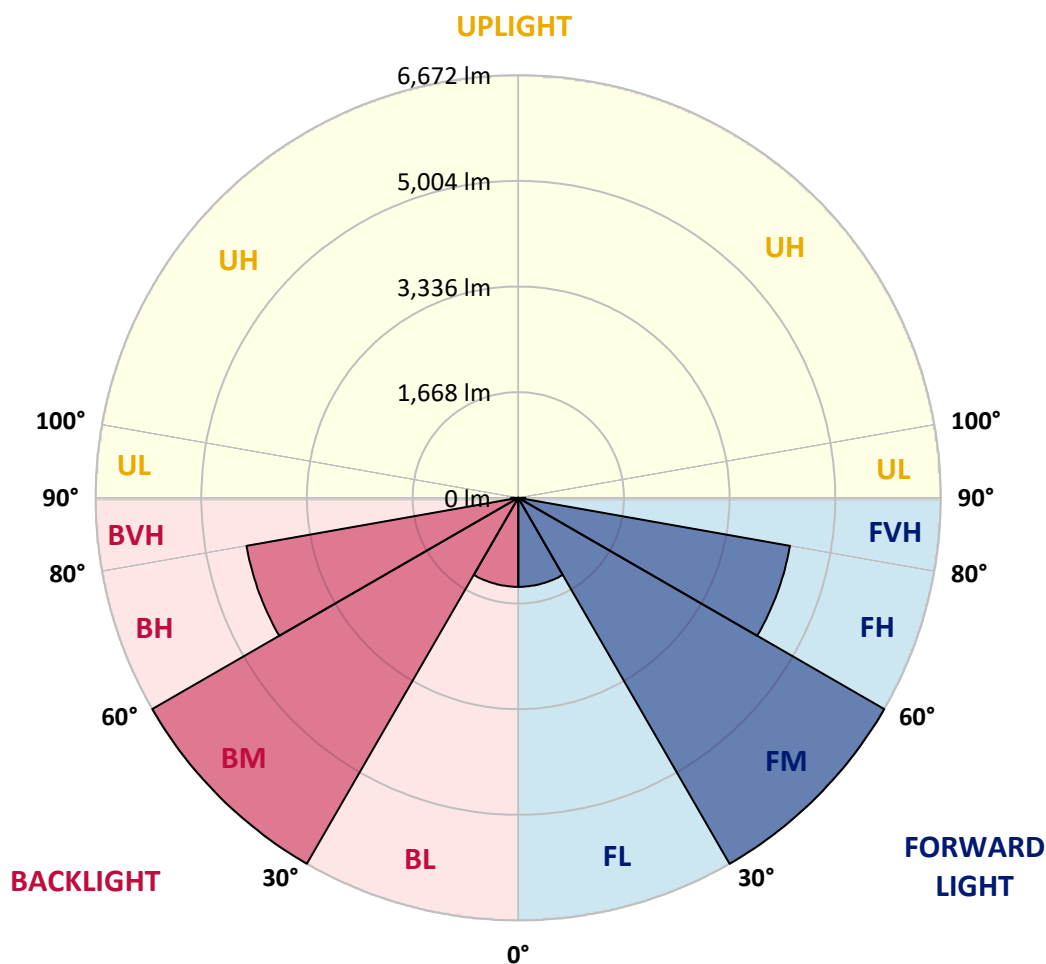
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.8	5.6			
FM	(30°-60°)	6671.5	26.6			
FH	(60°-80°)	4356.6	17.4			G2/5000
FVH	(80°-90°)	113.1	0.5			G2/225
BL	(0°-30°)	1404.8	5.6	B3/2500		
BM	(30°-60°)	6671.5	26.6	B4/8500		
BH	(60°-80°)	4356.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	113.1	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°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2687.8	2685.2	2687.8	2690.3	2689.1	2689.1	2695.4	2699.3	2707.0	2705.7	2704.5
5°	2669.8	2668.6	2678.8	2690.3	2699.3	2714.7	2733.9	2748.0	2766.0	2769.8	2769.8
7.5°	2660.9	2657.0	2674.9	2695.4	2723.6	2762.1	2799.3	2837.7	2868.5	2878.7	2881.3
10°	2667.3	2668.6	2692.9	2731.3	2776.2	2830.0	2882.5	2947.9	2991.5	3001.7	3012.0
12.5°	2696.8	2694.2	2735.2	2796.7	2858.2	2926.1	2987.6	3059.3	3106.8	3131.1	3141.3
15°	2750.6	2745.5	2803.1	2894.1	2983.8	3063.2	3113.1	3181.0	3236.1	3266.9	3278.4
17.5°	2814.6	2817.2	2892.8	3010.6	3128.5	3218.2	3265.5	3300.2	3342.4	3369.4	3382.2
20°	2927.4	2932.5	3017.1	3156.7	3291.2	3393.7	3432.1	3419.3	3430.9	3451.4	3466.8
22.5°	3078.6	3081.1	3176.0	3327.0	3468.0	3580.7	3606.4	3553.9	3521.8	3535.9	3546.2
25°	3254.1	3270.7	3365.5	3520.6	3665.3	3772.9	3784.4	3705.1	3625.6	3629.4	3635.9
27.5°	3468.0	3483.4	3579.5	3733.2	3880.5	3974.0	3972.8	3866.4	3749.9	3720.3	3729.4
30°	3699.9	3716.5	3815.2	3974.0	4111.2	4193.2	4175.2	4048.3	3881.8	3826.7	3833.1
32.5°	3975.4	3985.6	4085.5	4244.3	4371.2	4436.5	4399.4	4243.1	4035.5	3972.8	3988.2
35°	4308.4	4323.8	4398.1	4548.0	4659.4	4713.3	4650.5	4466.0	4232.8	4162.4	4172.7
37.5°	4689.0	4678.7	4763.3	4896.4	4988.7	5022.0	4936.2	4717.2	4458.3	4375.0	4390.4
40°	5086.0	5080.9	5173.2	5301.3	5351.2	5371.7	5244.9	5005.4	4718.4	4628.7	4658.2
42.5°	5446.0	5442.2	5566.5	5708.7	5768.9	5745.8	5585.7	5311.5	5019.4	4916.9	4942.5
45°	5734.4	5729.2	5881.7	6081.5	6199.4	6161.0	5945.7	5649.8	5324.4	5218.1	5242.4
47.5°	5956.0	5958.5	6122.5	6369.8	6576.0	6590.1	6313.4	5994.4	5660.0	5539.6	5575.5
50°	6116.1	6123.8	6299.3	6573.4	6855.3	6979.5	6688.7	6348.0	6007.2	5871.4	5912.4
52.5°	6155.8	6169.9	6381.2	6702.9	7034.7	7271.7	7070.6	6687.5	6336.4	6207.1	6240.4
55°	5944.4	5972.6	6240.4	6692.6	7144.9	7463.8	7406.2	7032.1	6668.2	6535.0	6572.2
57.5°	5458.8	5498.6	5811.2	6401.7	7120.5	7595.8	7666.3	7362.7	7000.0	6872.0	6901.4
60°	4778.5	4826.0	5125.8	5770.2	6777.2	7644.4	7849.4	7684.2	7305.0	7180.7	7207.6
62.5°	3752.4	3813.9	4172.7	4928.5	6052.0	7417.7	8005.8	7975.0	7579.2	7424.1	7442.0
65°	2407.2	2472.6	2850.5	3743.4	5084.8	6723.4	8054.4	8258.1	7868.7	7652.1	7679.1
67.5°	1451.5	1481.0	1668.0	2268.8	3716.5	5676.7	7641.9	8572.0	8206.9	7937.9	7958.3
70°	928.9	945.5	1057.0	1332.4	2101.0	4141.9	6619.6	8630.9	8616.9	8231.3	8228.7
72.5°	630.3	635.4	664.9	789.1	1188.9	2353.4	4882.4	7813.6	8873.1	8609.2	8568.2
75°	461.2	489.4	536.8	558.5	675.2	1176.1	2797.9	5489.6	7477.9	7593.2	7314.0
77.5°	343.4	344.6	410.0	435.6	481.7	626.5	1183.8	3064.4	4642.8	4874.7	4348.2
80°	290.8	275.4	274.2	351.1	362.5	390.7	529.1	1058.2	1662.9	1008.3	762.3
82.5°	242.1	225.5	203.7	274.2	247.2	239.5	229.3	430.5	529.1	260.0	221.6
85°	169.1	161.4	153.8	179.4	140.9	120.4	110.2	201.1	222.9	110.2	97.4
87.5°	73.0	75.5	76.9	79.4	58.9	42.2	42.2	56.4	56.4	43.6	32.0
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)