

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: P965640

Luminaire Tested: **NAV-SB4A-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965640
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-SB4A-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20075.5 lumens
Efficiency: N/A
Efficacy: 176.1 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): 114
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

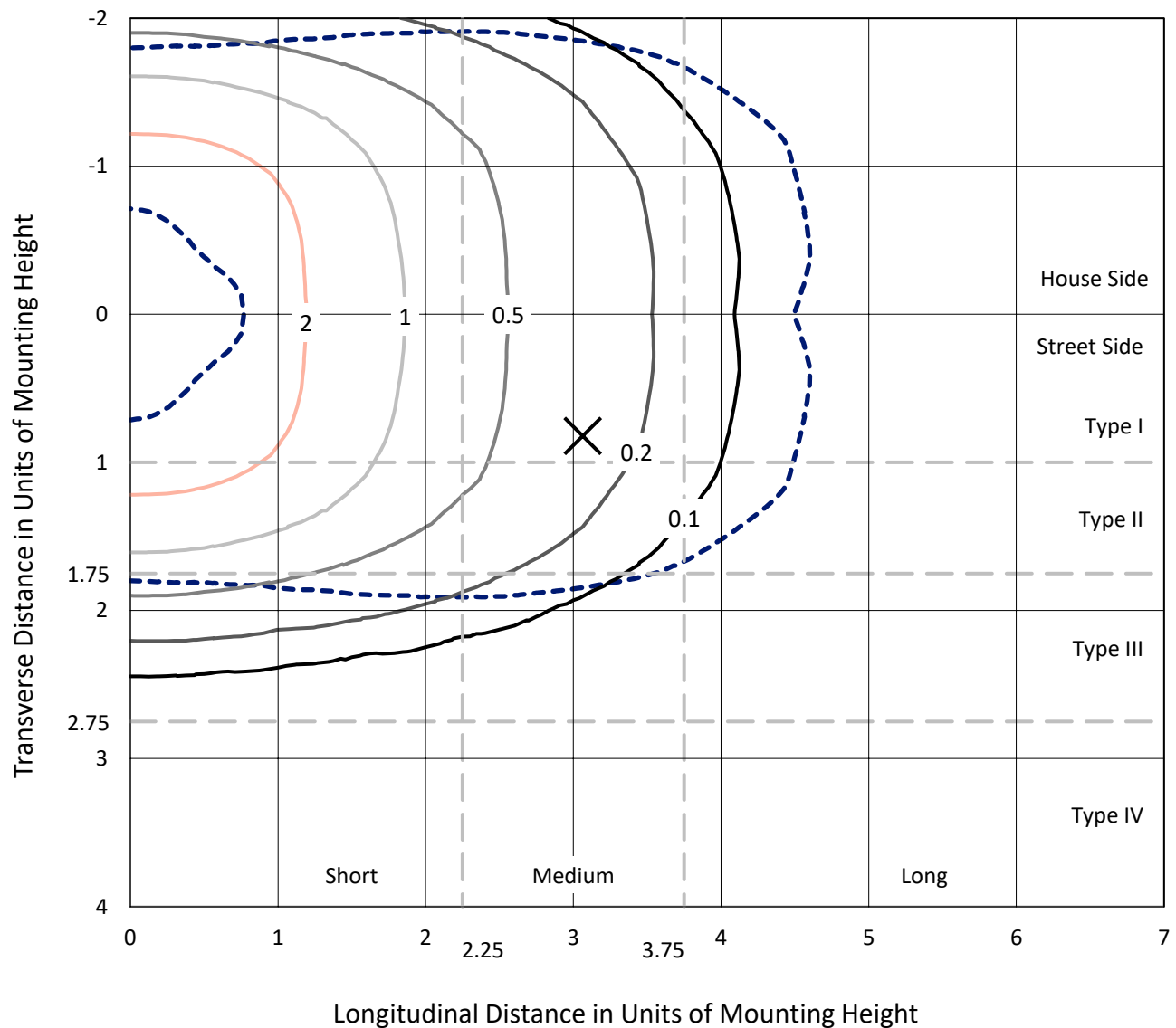


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Iso-Footcandle Lines of Horizontal Illumination

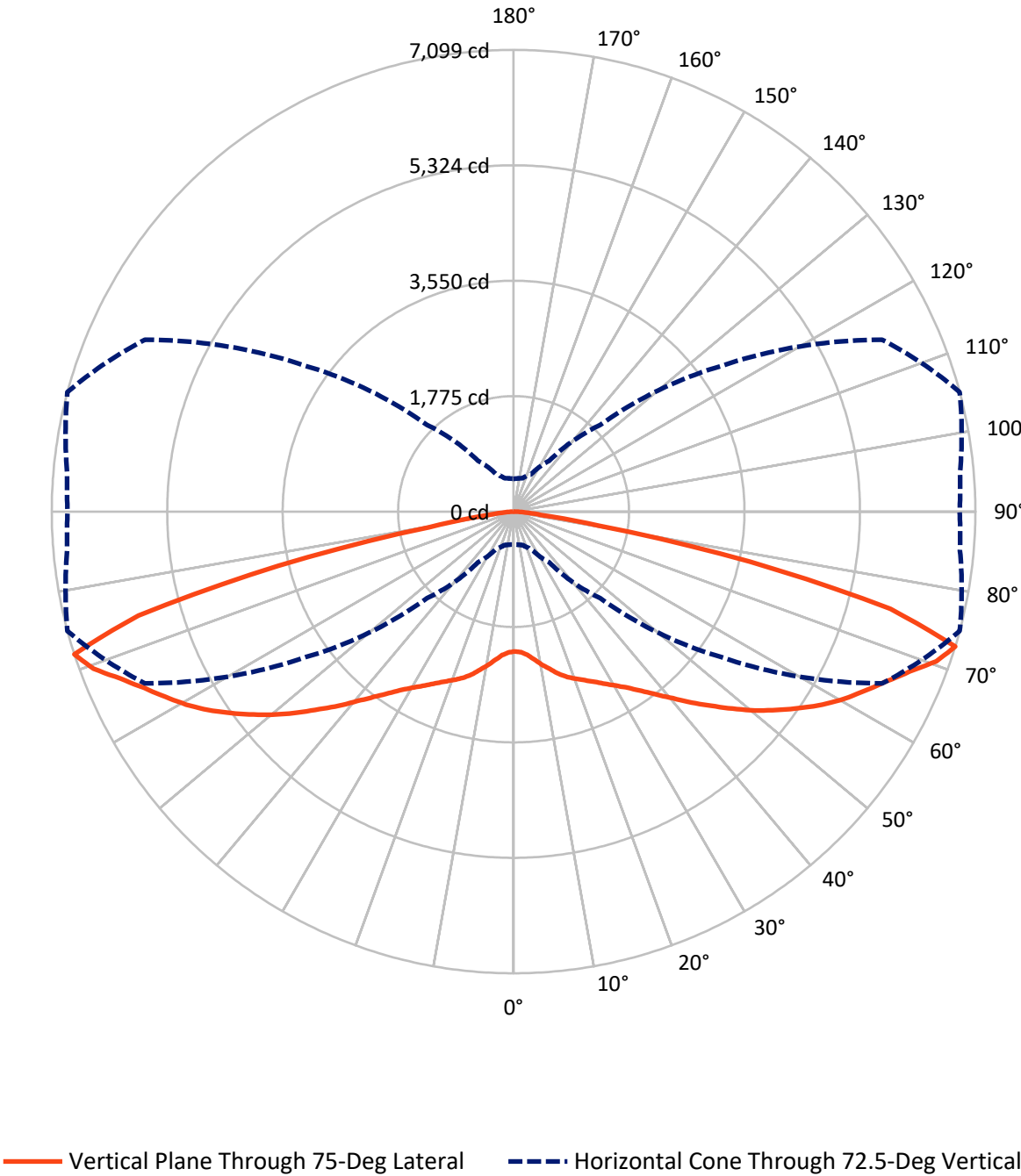
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	10037.8	0.0	10037.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10037.8	0.0	10037.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	20075.5	0.0	20075.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	1.0
10°-20°	694.8	3.5
20°-30°	1342.5	6.7
30°-40°	2266.9	11.3
40°-50°	3595.1	17.9
50°-60°	4813.4	24.0
60°-70°	4580.8	22.8
70°-80°	2390.4	11.9
80°-90°	180.9	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°	20075.5	100.0
0°-180°	20075.5	100.0

Coefficient of Utilization



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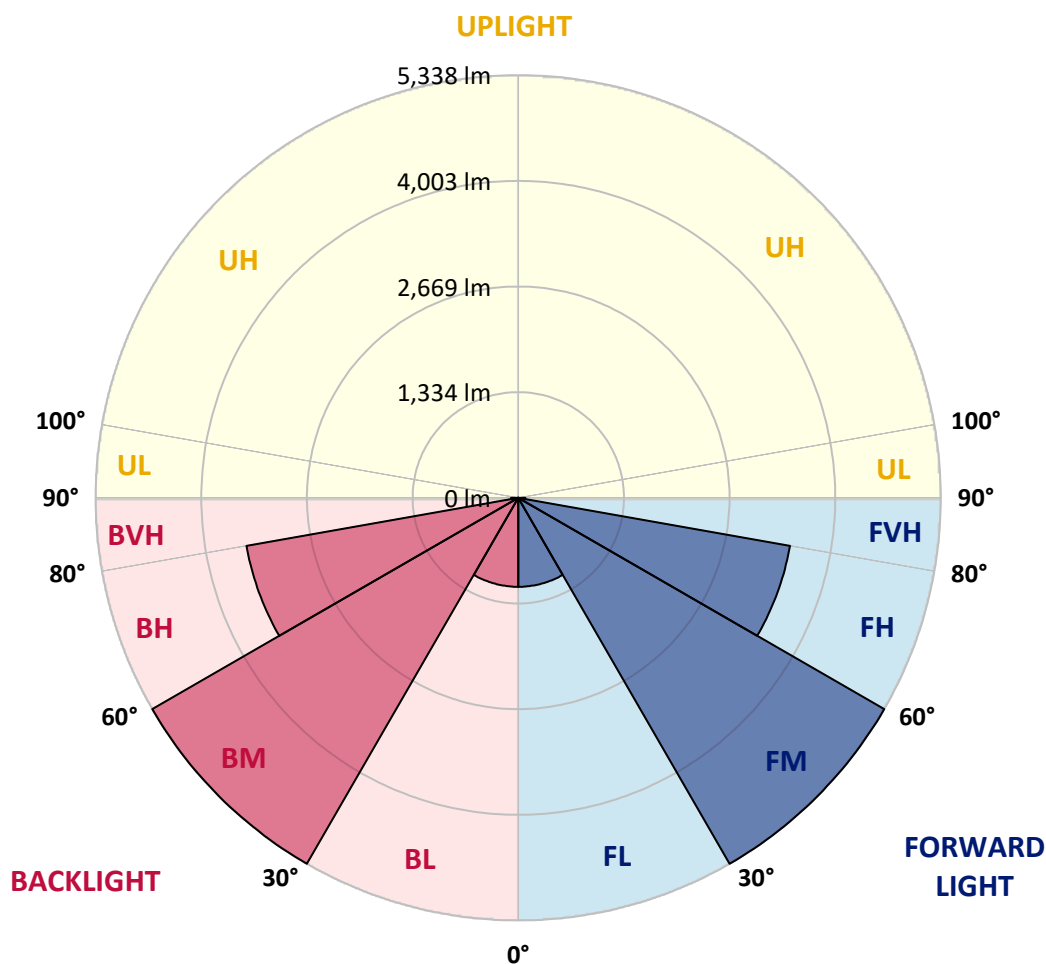
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1124.0	5.6			
FM	(30°-60°)	5337.7	26.6			
FH	(60°-80°)	3485.6	17.4			G2/5000
FVH	(80°-90°)	90.5	0.5			G1/100
BL	(0°-30°)	1124.0	5.6	B3/2500		
BM	(30°-60°)	5337.7	26.6	B4/8500		
BH	(60°-80°)	3485.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	90.5	0.5			G1/100
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°	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4
2.5°	2150.4	2148.4	2150.4	2152.5	2151.5	2151.5	2156.6	2159.7	2165.8	2164.8	2163.8
5°	2136.1	2135.1	2143.3	2152.5	2159.7	2172.0	2187.4	2198.6	2213.0	2216.0	2216.0
7.5°	2128.9	2125.8	2140.2	2156.6	2179.1	2209.9	2239.6	2270.4	2295.0	2303.2	2305.2
10°	2134.0	2135.1	2154.5	2185.3	2221.2	2264.2	2306.2	2358.5	2393.4	2401.6	2409.8
12.5°	2157.6	2155.6	2188.4	2237.6	2286.8	2341.1	2390.3	2447.7	2485.6	2505.1	2513.3
15°	2200.7	2196.6	2242.7	2315.5	2387.2	2450.8	2490.8	2545.1	2589.1	2613.8	2623.0
17.5°	2251.9	2254.0	2314.4	2408.8	2503.0	2574.8	2612.7	2640.4	2674.2	2695.7	2706.0
20°	2342.1	2346.2	2413.9	2525.6	2633.2	2715.2	2746.0	2735.7	2745.0	2761.4	2773.6
22.5°	2463.1	2465.1	2541.0	2661.9	2774.7	2864.9	2885.4	2843.4	2817.7	2829.0	2837.2
25°	2603.5	2616.8	2692.7	2816.7	2932.5	3018.6	3027.8	2964.3	2900.7	2903.8	2909.0
27.5°	2774.7	2787.0	2863.8	2986.8	3104.7	3179.5	3178.5	3093.4	3000.2	2976.6	2983.8
30°	2960.2	2973.5	3052.4	3179.5	3289.2	3354.8	3340.5	3239.0	3105.7	3061.7	3066.8
32.5°	3180.6	3188.8	3268.7	3395.8	3497.3	3549.6	3519.8	3394.8	3228.7	3178.5	3190.8
35°	3447.1	3459.4	3518.8	3638.7	3727.9	3771.0	3720.7	3573.2	3386.6	3330.2	3338.4
37.5°	3751.5	3743.3	3811.0	3917.6	3991.3	4018.0	3949.3	3774.0	3567.0	3500.4	3512.7
40°	4069.2	4065.2	4139.0	4241.4	4281.4	4297.8	4196.3	4004.7	3775.1	3703.3	3726.9
42.5°	4357.3	4354.2	4453.6	4567.4	4615.6	4597.1	4469.0	4249.6	4016.0	3934.0	3954.4
45°	4587.9	4583.8	4705.8	4865.7	4960.0	4929.2	4757.0	4520.2	4259.9	4174.8	4194.3
47.5°	4765.2	4767.3	4898.5	5096.3	5261.3	5272.6	5051.2	4796.0	4528.4	4432.1	4460.8
50°	4893.3	4899.5	5039.9	5259.3	5484.8	5584.2	5351.5	5078.9	4806.2	4697.6	4730.4
52.5°	4925.1	4936.4	5105.5	5362.8	5628.3	5817.9	5657.0	5350.5	5069.6	4966.1	4992.8
55°	4756.0	4778.5	4992.8	5354.6	5716.4	5971.6	5925.5	5626.2	5335.1	5228.5	5258.2
57.5°	4367.5	4399.3	4649.4	5121.9	5697.0	6077.2	6133.6	5890.7	5600.6	5498.1	5521.7
60°	3823.2	3861.2	4101.0	4616.6	5422.2	6116.2	6280.2	6148.0	5844.5	5745.1	5766.6
62.5°	3002.2	3051.4	3338.4	3943.2	4842.1	5934.7	6405.2	6380.6	6063.9	5939.9	5954.2
65°	1926.0	1978.2	2280.6	2995.0	4068.2	5379.2	6444.2	6607.2	6295.5	6122.3	6143.8
67.5°	1161.3	1184.9	1334.6	1815.3	2973.5	4541.8	6114.1	6858.3	6566.2	6350.9	6367.3
70°	743.1	756.4	845.6	1066.0	1681.0	3313.8	5296.2	6905.4	6894.2	6585.6	6583.6
72.5°	504.3	508.4	532.0	631.4	951.2	1882.9	3906.3	6251.5	7099.2	6888.0	6855.2
75°	369.0	391.5	429.5	446.9	540.2	941.0	2238.6	4392.1	5982.9	6075.2	5851.7
77.5°	274.7	275.7	328.0	348.5	385.4	501.2	947.1	2451.8	3714.6	3900.1	3478.8
80°	232.7	220.4	219.4	280.8	290.1	312.6	423.3	846.6	1330.4	806.7	609.9
82.5°	193.7	180.4	163.0	219.4	197.8	191.7	183.5	344.4	423.3	208.1	177.3
85°	135.3	129.1	123.0	143.5	112.7	96.4	88.1	160.9	178.4	88.1	77.9
87.5°	58.4	60.5	61.5	63.6	47.2	33.8	33.8	45.1	45.1	34.8	25.6
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)