

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: P962912

Luminaire Tested: **NAV-SB2D-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962912
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-SB2D-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19922.9 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

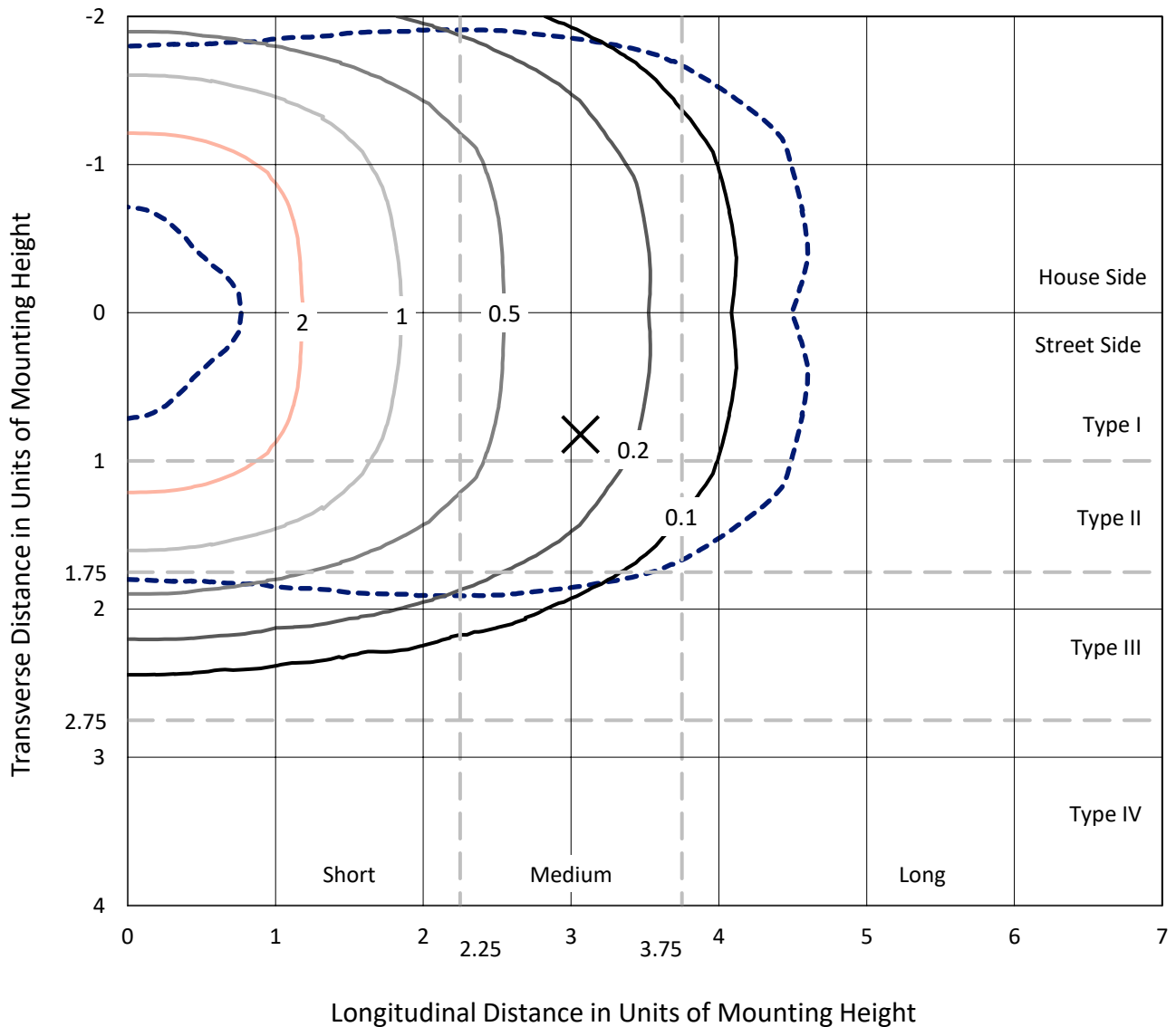
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

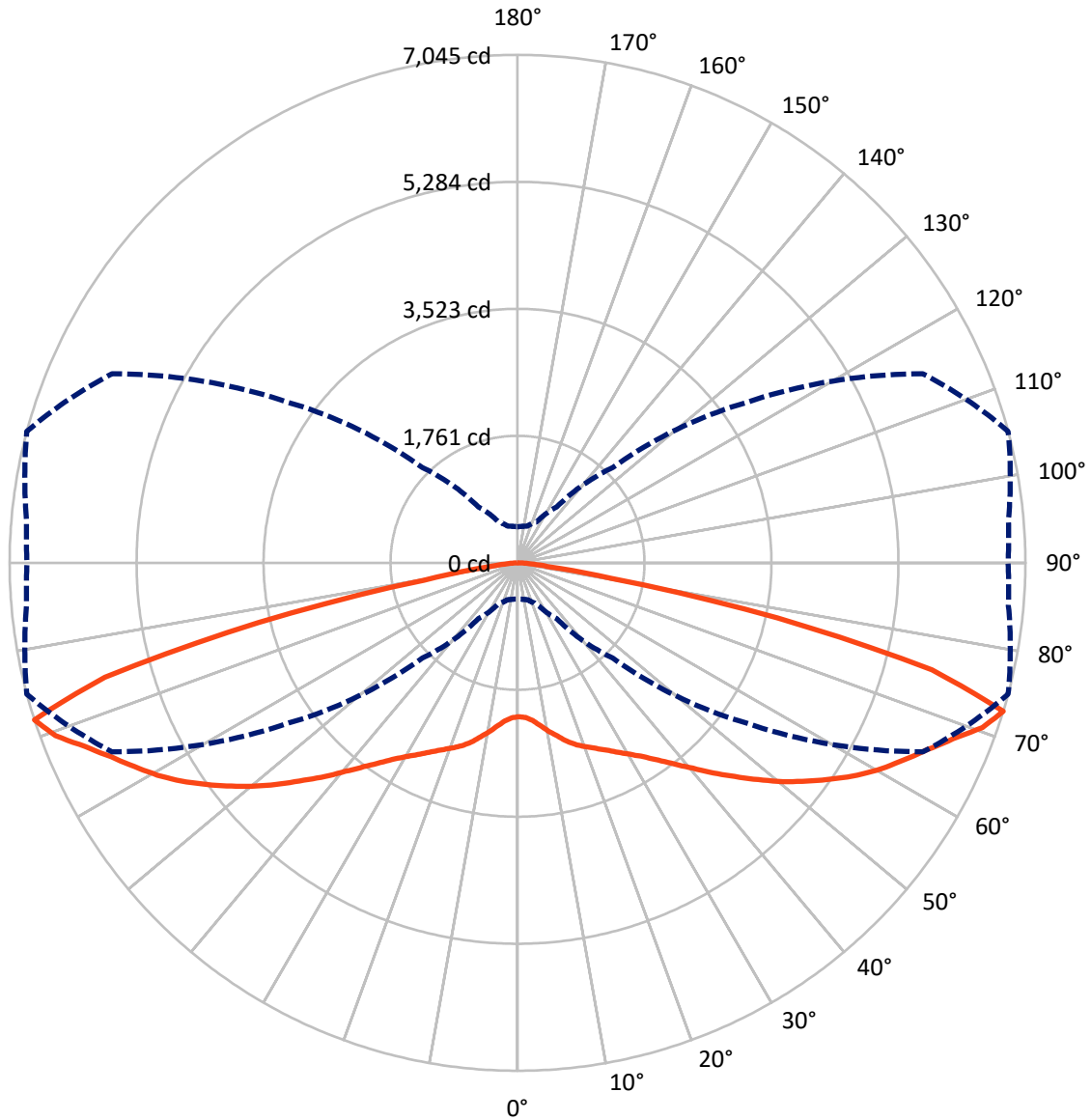
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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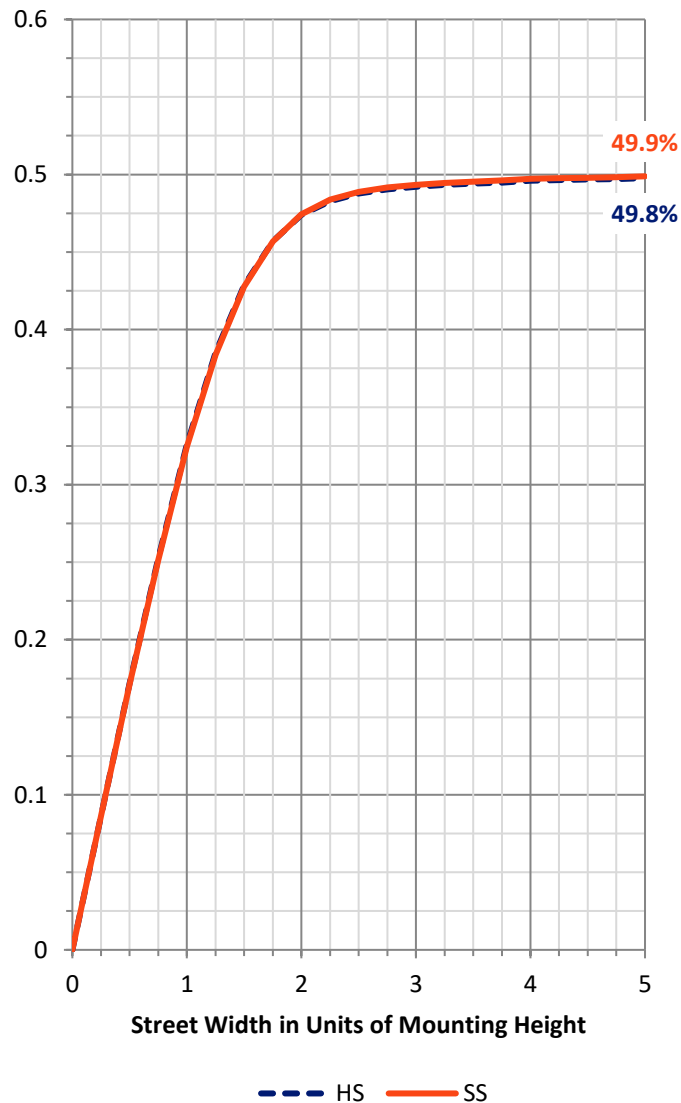
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9961.4	0.0	9961.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9961.4	0.0	9961.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19922.9	0.0	19922.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	1.0
10°-20°	689.5	3.5
20°-30°	1332.3	6.7
30°-40°	2249.7	11.3
40°-50°	3567.8	17.9
50°-60°	4776.8	24.0
60°-70°	4546.0	22.8
70°-80°	2372.2	11.9
80°-90°	179.5	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°	19922.9	100.0
0°-180°	19922.9	100.0

Coefficient of Utilization



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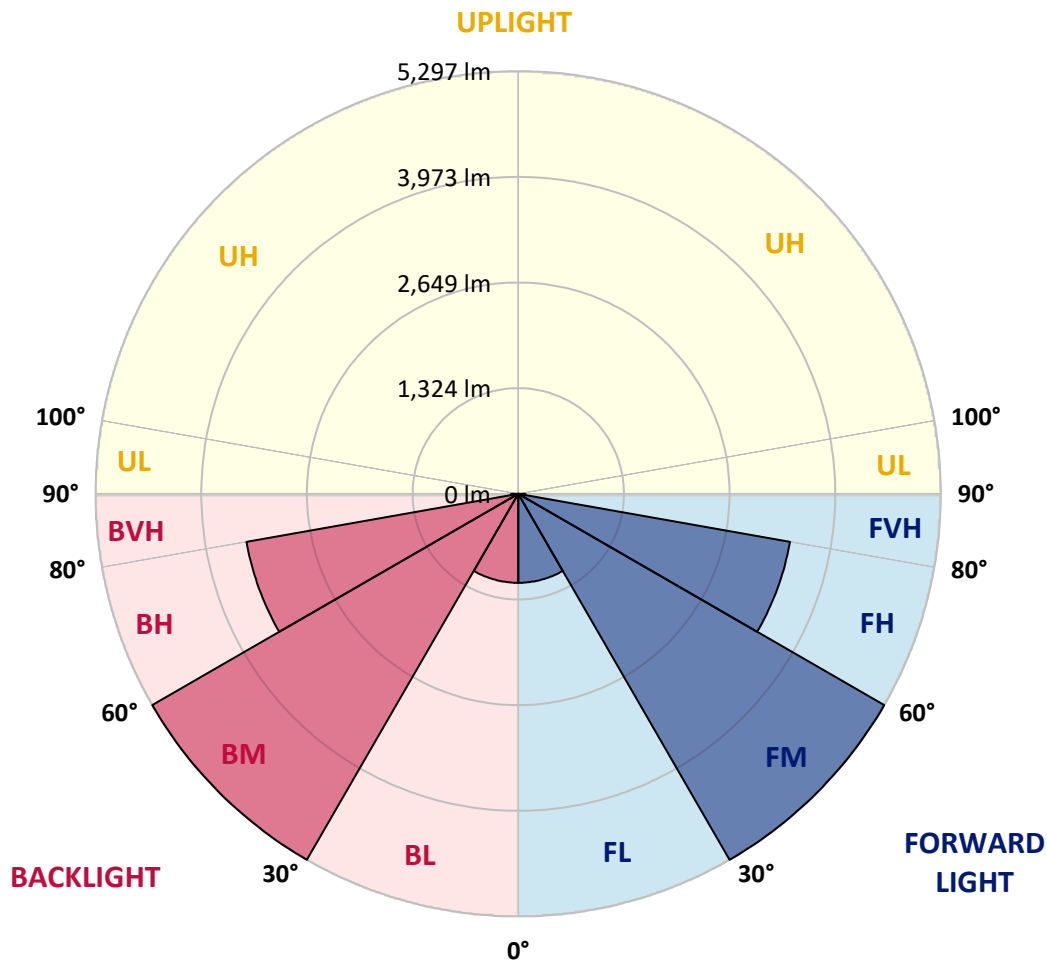
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.4	5.6			
FM (30°-60°)	5297.1	26.6			
FH (60°-80°)	3459.1	17.4			G2/5000
FVH (80°-90°)	89.8	0.5			G1/100
BL (0°-30°)	1115.4	5.6	B3/2500		
BM (30°-60°)	5297.1	26.6	B4/8500		
BH (60°-80°)	3459.1	17.4	B4/5000		G4/5000
BVH (80°-90°)	89.8	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°	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2
2.5°	2134.2	2132.1	2134.2	2136.1	2135.1	2135.1	2140.2	2143.3	2149.3	2148.3	2147.4
5°	2119.9	2118.9	2127.0	2136.1	2143.3	2155.5	2170.7	2181.9	2196.2	2199.2	2199.2
7.5°	2112.7	2109.7	2123.9	2140.2	2162.5	2193.1	2222.6	2253.2	2277.5	2285.6	2287.7
10°	2117.9	2118.9	2138.1	2168.7	2204.3	2247.0	2288.7	2340.6	2375.1	2383.3	2391.4
12.5°	2141.2	2139.2	2171.8	2220.6	2269.4	2323.3	2372.2	2429.0	2466.8	2486.0	2494.2
15°	2184.0	2179.9	2225.7	2297.8	2369.1	2432.1	2471.8	2525.7	2569.5	2593.9	2603.0
17.5°	2234.8	2236.9	2296.8	2390.4	2484.0	2555.2	2592.8	2620.3	2653.9	2675.2	2685.4
20°	2324.3	2328.4	2395.5	2506.4	2613.2	2694.6	2725.1	2714.9	2724.0	2740.3	2752.5
22.5°	2444.3	2446.4	2521.7	2641.7	2753.6	2843.1	2863.4	2821.7	2796.3	2807.5	2815.7
25°	2583.7	2596.9	2672.2	2795.3	2910.3	2995.7	3004.8	2941.7	2878.7	2881.8	2886.8
27.5°	2753.6	2765.8	2842.1	2964.1	3081.1	3155.4	3154.3	3070.0	2977.3	2953.9	2961.1
30°	2937.6	2950.9	3029.3	3155.4	3264.2	3329.3	3315.1	3214.4	3082.2	3038.4	3043.5
32.5°	3156.4	3164.5	3243.9	3370.0	3470.8	3522.6	3493.1	3369.0	3204.3	3154.3	3166.5
35°	3420.8	3433.0	3492.1	3611.1	3699.6	3742.3	3692.5	3546.0	3360.9	3304.9	3313.0
37.5°	3723.0	3714.8	3781.9	3887.7	3961.0	3987.5	3919.3	3745.3	3539.8	3473.7	3485.9
40°	4038.3	4034.2	4107.5	4209.2	4248.8	4265.1	4164.5	3974.2	3746.4	3675.1	3698.6
42.5°	4324.2	4321.1	4419.8	4532.7	4580.5	4562.2	4435.1	4217.4	3985.4	3904.0	3924.4
45°	4553.0	4549.0	4670.0	4828.7	4922.3	4891.7	4720.8	4485.9	4227.5	4143.0	4162.4
47.5°	4729.0	4731.0	4861.3	5057.6	5221.3	5232.5	5012.8	4759.5	4494.0	4398.4	4426.9
50°	4856.1	4862.3	5001.6	5219.3	5443.1	5541.8	5310.8	5040.2	4769.7	4661.9	4694.4
52.5°	4887.7	4898.9	5066.7	5322.0	5585.5	5773.7	5613.9	5309.8	5031.1	4928.4	4954.8
55°	4719.8	4742.3	4954.8	5313.9	5673.0	5926.2	5880.5	5583.5	5294.5	5188.8	5218.3
57.5°	4334.3	4365.9	4614.0	5083.0	5653.6	6031.0	6087.0	5845.9	5558.1	5456.3	5479.6
60°	3794.1	3831.9	4069.9	4581.5	5381.0	6069.6	6232.4	6101.2	5800.2	5701.5	5722.8
62.5°	2979.4	3028.3	3313.0	3913.2	4805.3	5889.6	6356.5	6332.1	6017.8	5894.7	5908.9
65°	1911.3	1963.2	2263.3	2972.3	4037.3	5338.3	6395.2	6556.9	6247.7	6075.8	6097.1
67.5°	1152.5	1175.9	1324.4	1801.4	2950.9	4507.2	6067.7	6806.1	6516.2	6302.6	6318.9
70°	737.5	750.7	839.2	1057.9	1668.2	3288.6	5255.9	6852.9	6841.8	6535.6	6533.6
72.5°	500.5	504.5	528.0	626.6	943.9	1868.6	3876.6	6203.9	7045.1	6835.6	6803.1
75°	366.2	388.6	426.2	443.5	536.1	933.8	2221.6	4358.7	5937.4	6028.9	5807.2
77.5°	272.6	273.7	325.5	345.8	382.4	497.4	939.9	2433.1	3686.3	3870.5	3452.4
80°	230.9	218.7	217.7	278.7	287.8	310.3	420.1	840.2	1320.3	800.5	605.3
82.5°	192.3	179.1	161.7	217.7	196.3	190.2	182.0	341.7	420.1	206.5	176.0
85°	134.3	128.1	122.1	142.4	111.9	95.6	87.4	159.7	177.0	87.4	77.3
87.5°	58.0	60.1	61.0	63.0	46.8	33.5	33.5	44.8	44.8	34.5	25.4
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)