

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: P962877

Luminaire Tested: **NAV-SB2D-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18056.4 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

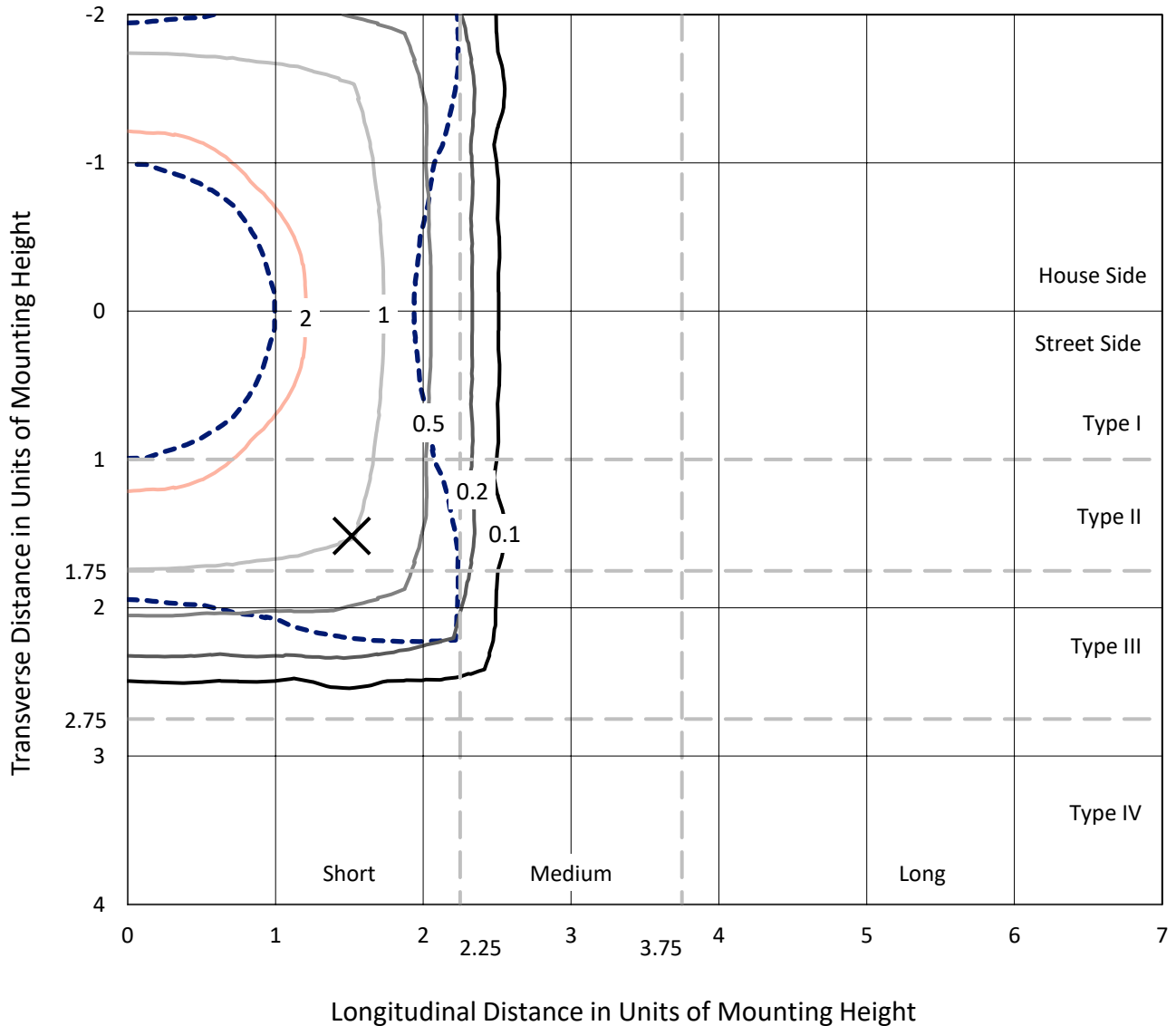
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

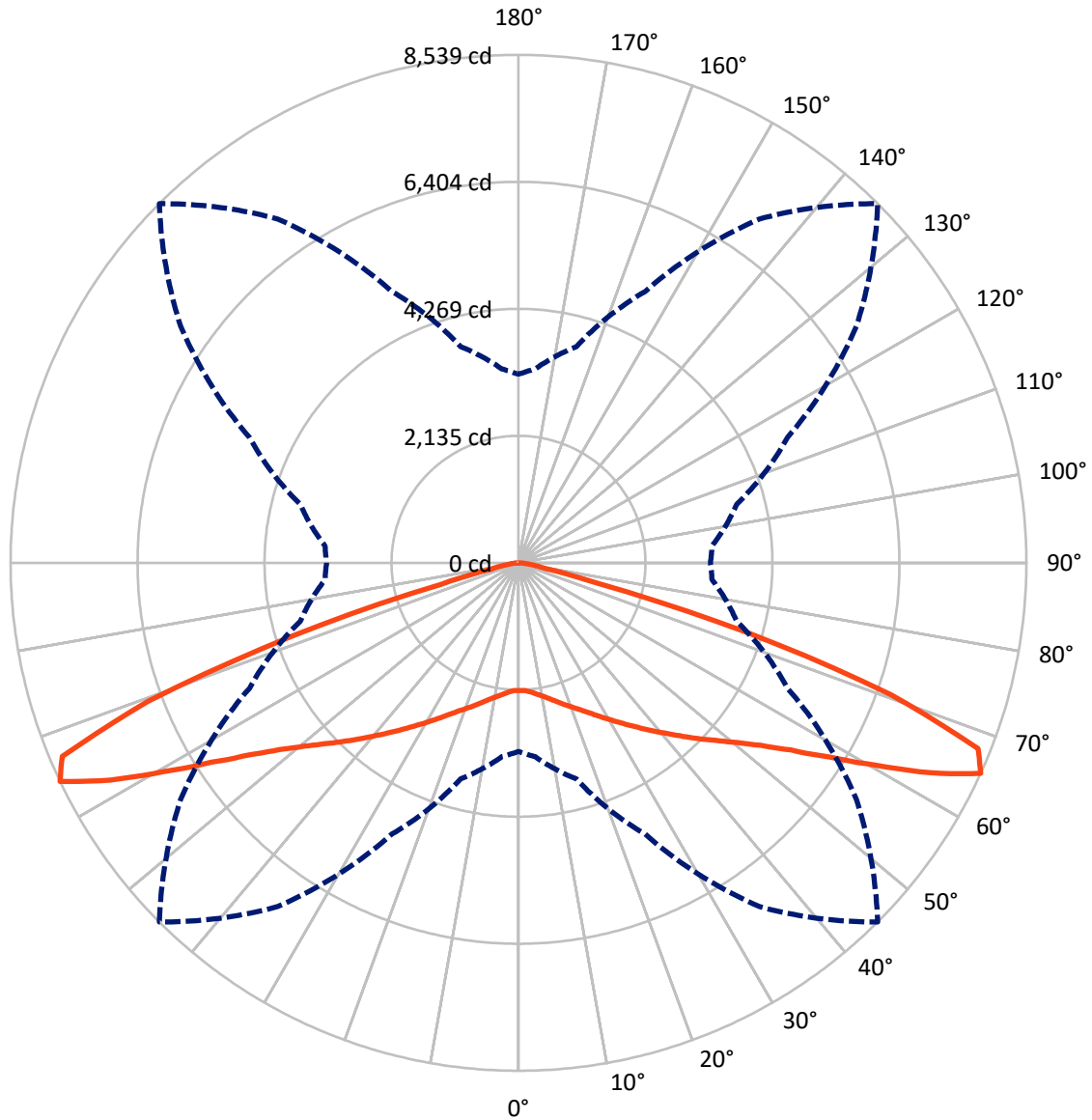
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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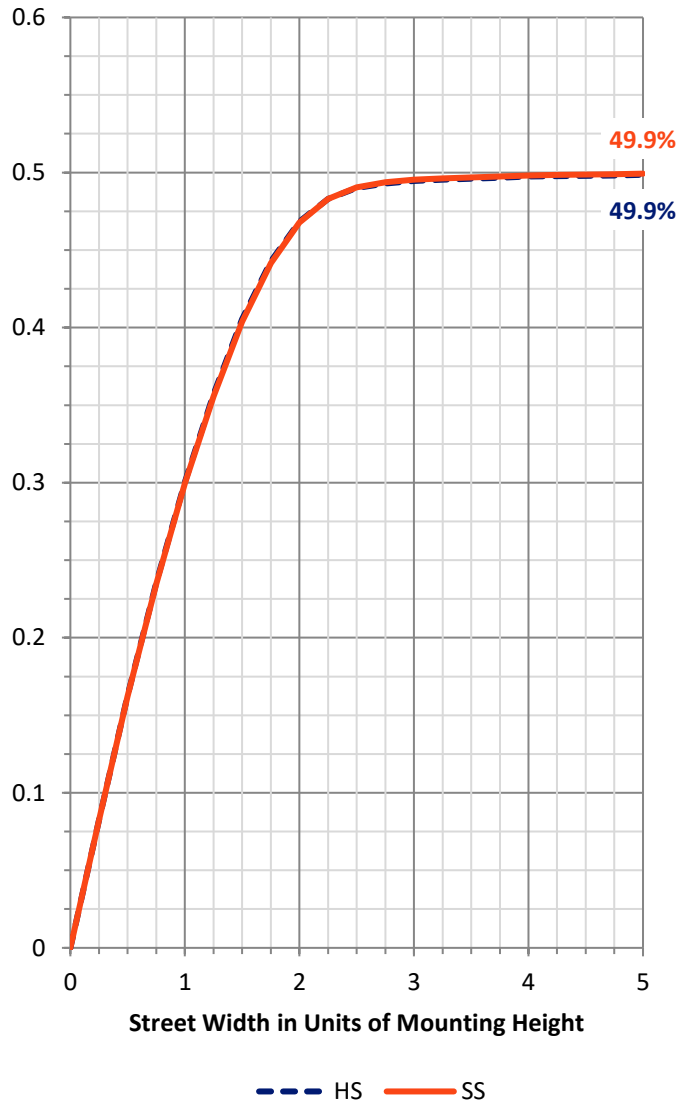
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9028.2	0.0	9028.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9028.2	0.0	9028.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18056.4	0.0	18056.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	1.2
10°-20°	692.0	3.8
20°-30°	1306.6	7.2
30°-40°	2139.5	11.8
40°-50°	3317.3	18.4
50°-60°	4900.4	27.1
60°-70°	4664.7	25.8
70°-80°	752.7	4.2
80°-90°	71.0	0.4
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°	18056.4	100.0
0°-180°	18056.4	100.0

Coefficient of Utilization



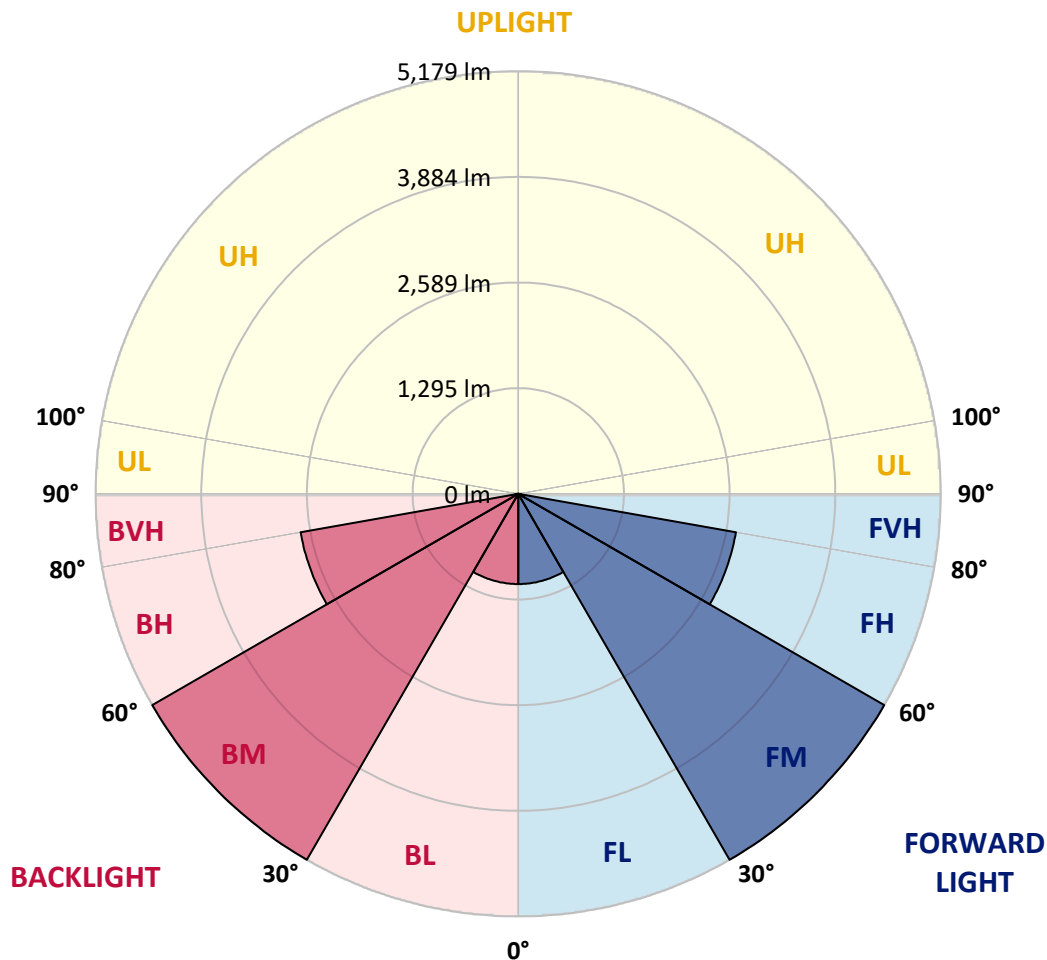
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.3	6.1			
FM (30°-60°)	5178.6	28.7			
FH (60°-80°)	2708.7	15.0			G2/5000
FVH (80°-90°)	35.5	0.2			G1/100
BL (0°-30°)	1105.3	6.1	B3/2500		
BM (30°-60°)	5178.6	28.7	B4/8500		
BH (60°-80°)	2708.7	15.0	B4/5000		G2/5000
BVH (80°-90°)	35.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9
2.5°	2163.4	2156.2	2161.6	2157.0	2153.4	2149.8	2151.6	2157.9	2160.7	2161.6	2161.6
5°	2192.4	2186.0	2188.8	2188.8	2182.4	2180.6	2181.5	2186.0	2191.4	2191.4	2191.4
7.5°	2239.5	2233.2	2239.5	2235.8	2230.4	2228.7	2227.7	2231.3	2239.5	2239.5	2236.8
10°	2296.5	2289.3	2292.9	2291.1	2284.8	2282.1	2281.1	2286.6	2293.8	2292.9	2291.1
12.5°	2359.0	2350.9	2355.4	2350.0	2348.2	2345.5	2345.5	2344.6	2349.1	2345.5	2347.2
15°	2428.8	2423.4	2425.3	2421.6	2424.3	2422.5	2415.2	2411.6	2413.5	2408.0	2408.9
17.5°	2511.2	2498.5	2504.9	2503.2	2503.2	2506.7	2495.0	2490.4	2494.0	2488.6	2493.1
20°	2606.4	2593.7	2596.4	2592.8	2588.2	2591.9	2577.4	2581.1	2583.7	2580.1	2588.2
22.5°	2710.6	2694.3	2693.4	2695.1	2685.2	2686.1	2676.2	2685.2	2690.6	2680.7	2690.6
25°	2817.5	2800.3	2812.1	2807.5	2794.9	2797.5	2790.3	2799.4	2803.9	2791.2	2805.7
27.5°	2930.7	2918.9	2929.9	2932.5	2917.1	2928.0	2917.1	2925.2	2929.9	2910.8	2925.2
30°	3063.0	3051.2	3061.2	3068.4	3050.3	3067.5	3058.5	3063.9	3064.7	3042.2	3055.7
32.5°	3207.0	3188.9	3214.3	3217.9	3198.0	3218.8	3207.0	3214.3	3218.8	3188.1	3208.9
35°	3382.8	3360.2	3389.2	3384.6	3367.4	3384.6	3373.7	3384.6	3395.5	3358.3	3381.0
37.5°	3572.1	3548.6	3579.4	3571.2	3554.9	3566.7	3560.3	3567.6	3584.8	3545.0	3569.4
40°	3780.5	3751.5	3793.2	3778.7	3763.3	3761.4	3765.1	3769.6	3792.3	3747.9	3762.4
42.5°	4003.3	3972.6	4035.0	4012.4	3990.6	3976.2	3988.0	3997.0	4018.7	3968.9	3995.2
45°	4258.0	4222.6	4304.1	4276.9	4242.5	4212.6	4231.6	4245.2	4276.9	4217.2	4247.9
47.5°	4538.8	4498.9	4585.8	4577.8	4521.6	4456.3	4499.9	4538.8	4562.3	4489.8	4514.3
50°	4813.3	4782.4	4896.6	4906.6	4837.7	4746.3	4806.9	4865.8	4872.1	4777.0	4788.8
52.5°	5070.6	5039.7	5205.6	5268.1	5206.5	5097.7	5162.0	5221.9	5173.8	5050.6	5054.3
55°	5276.2	5250.9	5461.9	5623.2	5644.1	5554.4	5592.4	5590.6	5432.9	5243.6	5249.9
57.5°	5326.0	5322.4	5588.7	5930.2	6147.7	6158.6	6083.4	5891.3	5551.6	5297.0	5280.7
60°	5099.6	5122.2	5488.2	6090.7	6670.5	6911.5	6586.2	6038.1	5416.6	5063.3	5021.7
62.5°	4421.8	4481.7	4922.9	5895.0	7092.6	7777.5	6989.4	5815.2	4862.2	4401.0	4373.9
65°	3169.0	3273.1	3760.5	5030.7	7054.6	8538.5	6931.4	4989.9	3796.8	3265.0	3226.1
67.5°	1437.8	1543.8	1957.7	3444.4	6132.3	8331.9	6117.8	3480.6	2055.5	1549.2	1526.5
70°	520.9	539.0	672.2	1378.8	3919.1	6638.7	4086.7	1388.8	714.8	574.4	567.1
72.5°	315.3	318.0	346.0	493.7	1361.6	4030.5	1419.6	510.0	353.3	313.4	318.9
75°	200.2	198.4	246.4	301.7	482.9	1359.9	506.5	301.7	245.5	223.8	225.6
77.5°	144.0	148.6	176.6	225.6	304.4	461.1	299.0	215.7	176.6	144.9	147.7
80°	107.8	110.5	128.6	175.8	213.8	287.2	190.2	159.5	133.1	90.6	93.3
82.5°	77.9	77.9	84.3	127.7	130.5	154.9	103.3	112.3	87.8	64.4	64.4
85°	46.2	45.3	52.6	76.1	68.0	57.1	47.2	68.9	55.2	39.9	38.9
87.5°	16.3	17.2	16.3	21.7	18.1	15.4	14.5	19.1	15.4	13.6	12.7
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)