

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: P964489

Luminaire Tested: **NAV-SB3C-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964489
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-SB3C-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22386 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

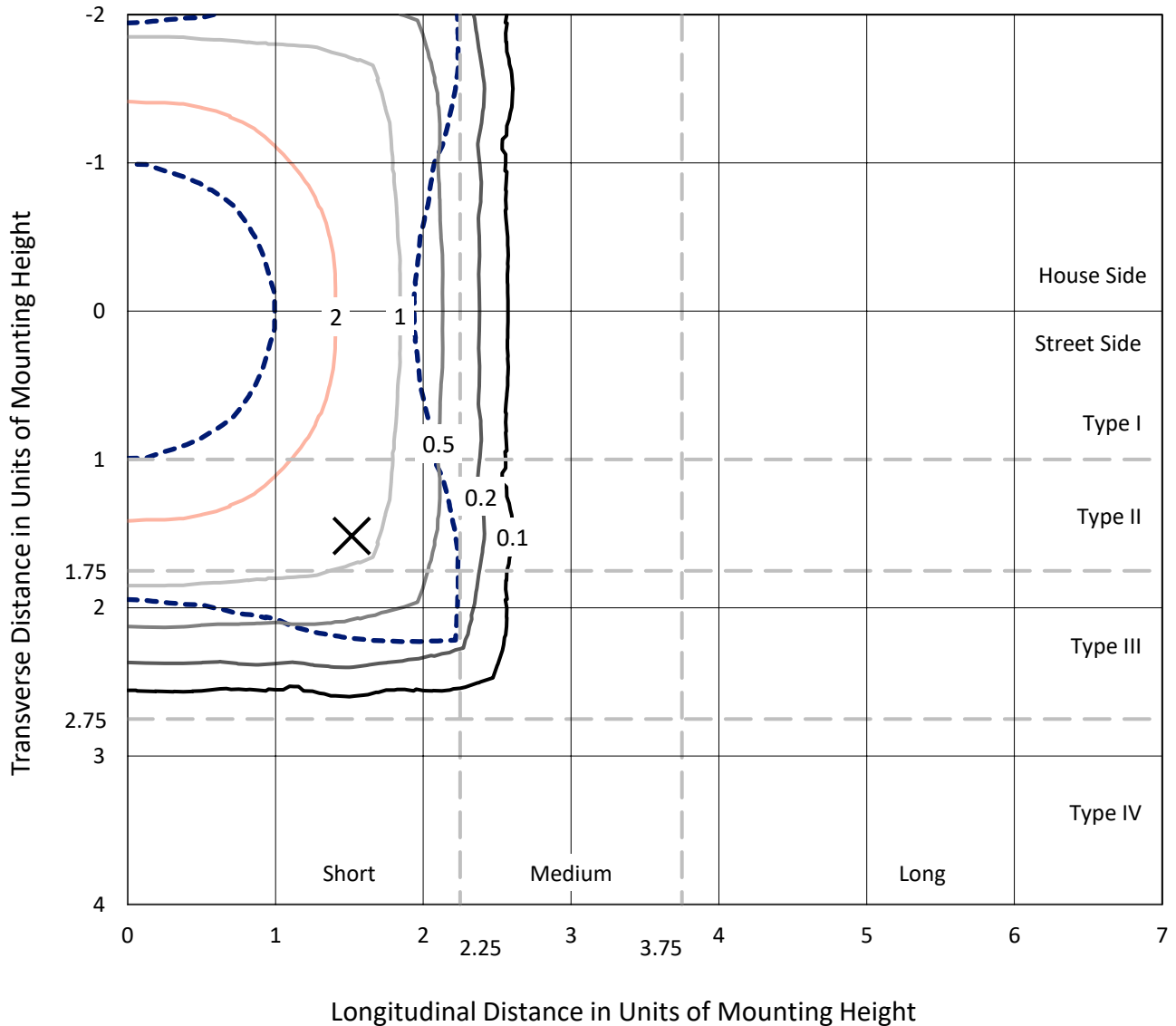
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

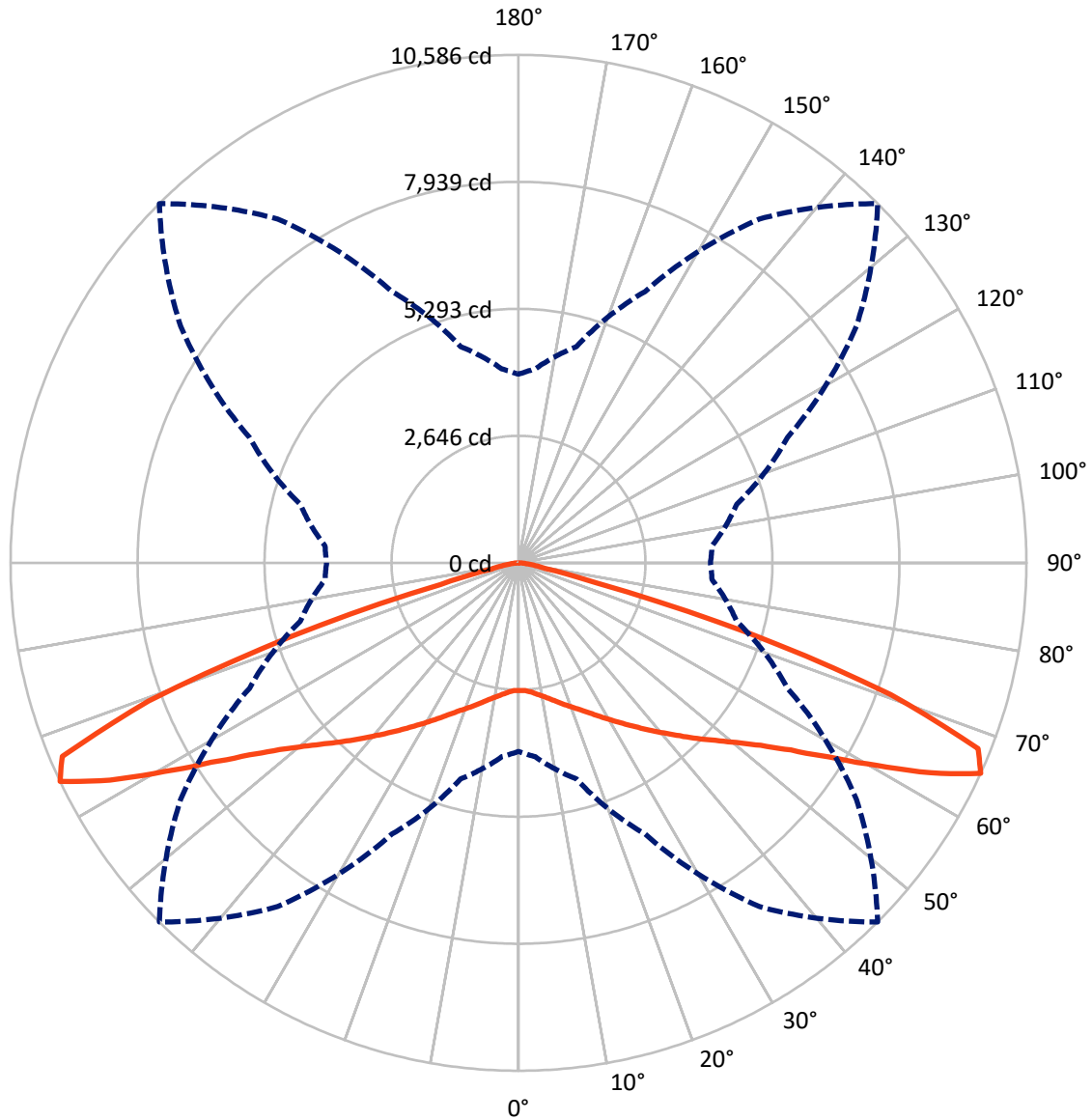
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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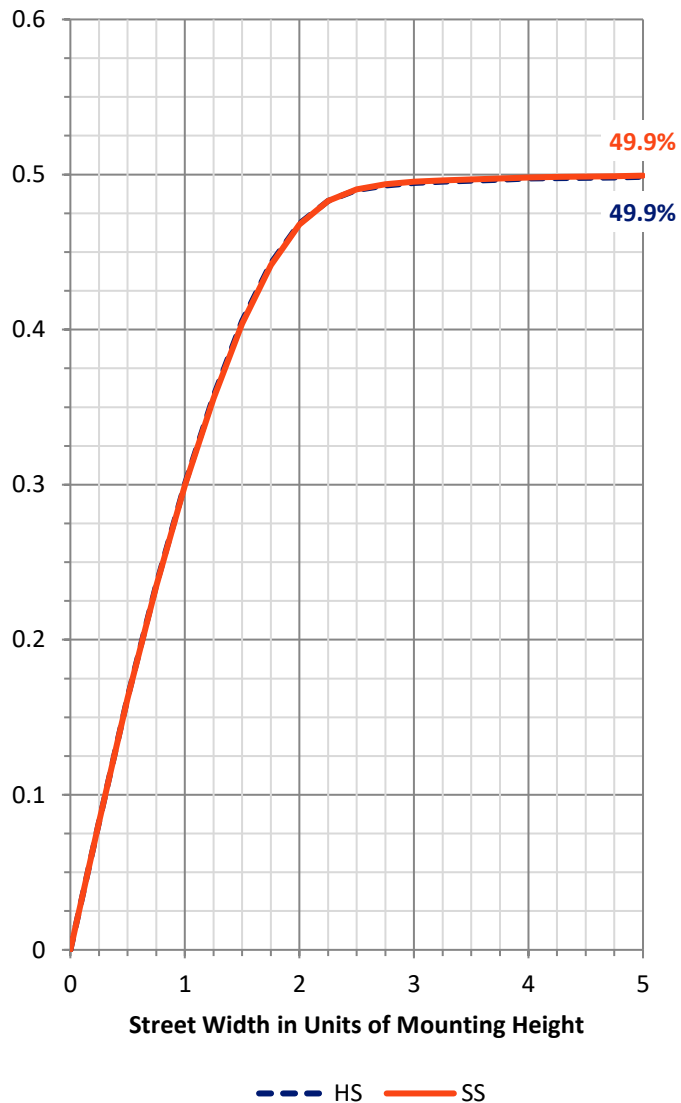
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11193.0	0.0	11193.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11193.0	0.0	11193.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22386.0	0.0	22386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.9	1.2
10°-20°	857.9	3.8
20°-30°	1619.9	7.2
30°-40°	2652.5	11.8
40°-50°	4112.8	18.4
50°-60°	6075.4	27.1
60°-70°	5783.3	25.8
70°-80°	933.2	4.2
80°-90°	88.0	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°	22386.0	100.0
0°-180°	22386.0	100.0

Coefficient of Utilization



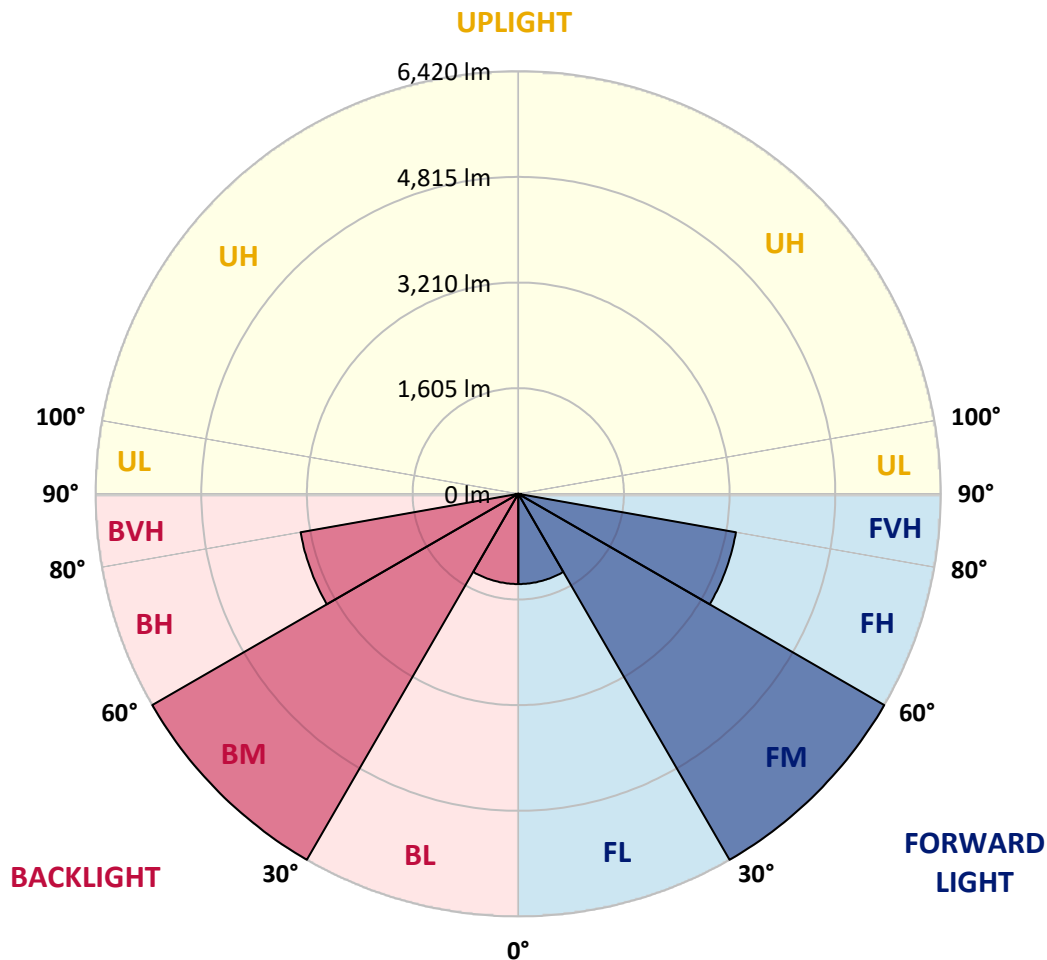
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.4	6.1			
FM (30°-60°)	6420.4	28.7			
FH (60°-80°)	3358.2	15.0			G2/5000
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1370.4	6.1	B3/2500		
BM (30°-60°)	6420.4	28.7	B4/8500		
BH (60°-80°)	3358.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.0	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°	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	2682.1	2673.1	2679.9	2674.2	2669.8	2665.3	2667.6	2675.4	2678.7	2679.9	2679.9
5°	2718.1	2710.2	2713.6	2713.6	2705.7	2703.4	2704.6	2710.2	2717.0	2717.0	2717.0
7.5°	2776.5	2768.6	2776.5	2772.0	2765.2	2763.0	2761.9	2766.4	2776.5	2776.5	2773.1
10°	2847.2	2838.2	2842.7	2840.5	2832.6	2829.3	2828.2	2834.8	2843.9	2842.7	2840.5
12.5°	2924.7	2914.6	2920.2	2913.5	2911.2	2907.9	2907.9	2906.8	2912.3	2907.9	2910.2
15°	3011.2	3004.5	3006.7	3002.2	3005.6	3003.4	2994.3	2989.9	2992.1	2985.4	2986.5
17.5°	3113.4	3097.7	3105.5	3103.3	3103.3	3107.8	3093.2	3087.6	3092.1	3085.4	3091.0
20°	3231.3	3215.6	3219.0	3214.5	3208.9	3213.4	3195.4	3199.9	3203.3	3198.8	3208.9
22.5°	3360.6	3340.3	3339.1	3341.4	3329.1	3330.2	3317.8	3329.1	3335.9	3323.5	3335.9
25°	3493.1	3471.7	3486.3	3480.7	3465.0	3468.4	3459.4	3470.5	3476.2	3460.5	3478.4
27.5°	3633.4	3618.9	3632.3	3635.7	3616.6	3630.0	3616.6	3626.8	3632.3	3608.7	3626.8
30°	3797.4	3782.9	3795.2	3804.2	3781.7	3803.1	3791.8	3798.5	3799.7	3771.6	3788.4
32.5°	3976.0	3953.5	3985.0	3989.5	3964.8	3990.6	3976.0	3985.0	3990.6	3952.4	3978.2
35°	4193.9	4165.8	4201.8	4196.1	4174.8	4196.1	4182.7	4196.1	4209.7	4163.5	4191.6
37.5°	4428.6	4399.5	4437.6	4427.5	4407.3	4422.0	4414.1	4423.1	4444.4	4395.0	4425.3
40°	4687.0	4651.0	4702.7	4684.8	4665.6	4663.4	4667.8	4673.5	4701.6	4646.5	4664.6
42.5°	4963.3	4925.1	5002.6	4974.5	4947.6	4929.6	4944.2	4955.5	4982.4	4920.6	4953.2
45°	5278.9	5235.1	5336.2	5302.5	5259.8	5222.8	5246.4	5263.2	5302.5	5228.3	5266.6
47.5°	5627.0	5577.6	5685.5	5675.4	5605.7	5524.9	5578.8	5627.0	5656.3	5566.5	5596.7
50°	5967.4	5929.2	6070.8	6083.1	5997.7	5884.3	5959.6	6032.5	6040.4	5922.4	5937.1
52.5°	6286.4	6248.2	6453.7	6531.2	6454.8	6320.0	6399.8	6473.9	6414.4	6261.6	6266.1
55°	6541.3	6509.9	6771.6	6971.5	6997.4	6886.2	6933.3	6931.0	6735.7	6500.9	6508.7
57.5°	6603.2	6598.6	6928.8	7352.2	7621.8	7635.3	7542.1	7303.9	6882.8	6567.2	6547.0
60°	6322.3	6350.4	6804.2	7551.1	8269.9	8568.7	8165.5	7485.9	6715.4	6277.4	6225.7
62.5°	5482.2	5556.3	6103.3	7308.5	8793.3	9642.4	8665.2	7209.6	6028.0	5456.4	5422.7
65°	3928.8	4058.0	4662.3	6236.9	8746.1	10585.9	8593.4	6186.4	4707.2	4047.9	3999.7
67.5°	1782.5	1913.9	2427.2	4270.3	7602.7	10329.7	7584.8	4315.2	2548.5	1920.6	1892.6
70°	645.9	668.3	833.4	1709.5	4858.8	8230.5	5066.6	1721.8	886.2	712.1	703.2
72.5°	390.8	394.2	429.1	612.1	1688.1	4997.0	1760.0	632.3	438.1	388.6	395.3
75°	248.3	246.0	305.6	374.0	598.6	1685.9	627.8	374.0	304.4	277.5	279.6
77.5°	178.6	184.2	219.0	279.6	377.4	571.6	370.6	267.3	219.0	179.7	183.1
80°	133.7	137.0	159.5	217.9	265.1	356.1	235.9	197.7	165.1	112.3	115.7
82.5°	96.6	96.6	104.4	158.4	161.7	192.1	128.0	139.3	109.0	79.7	79.7
85°	57.3	56.2	65.2	94.3	84.3	70.7	58.4	85.4	68.5	49.4	48.3
87.5°	20.2	21.3	20.2	27.0	22.4	19.1	17.9	23.6	19.1	16.8	15.7
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)