

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: P968239

Luminaire Tested: **NAV-SB5B-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30533.7 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 182.7
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

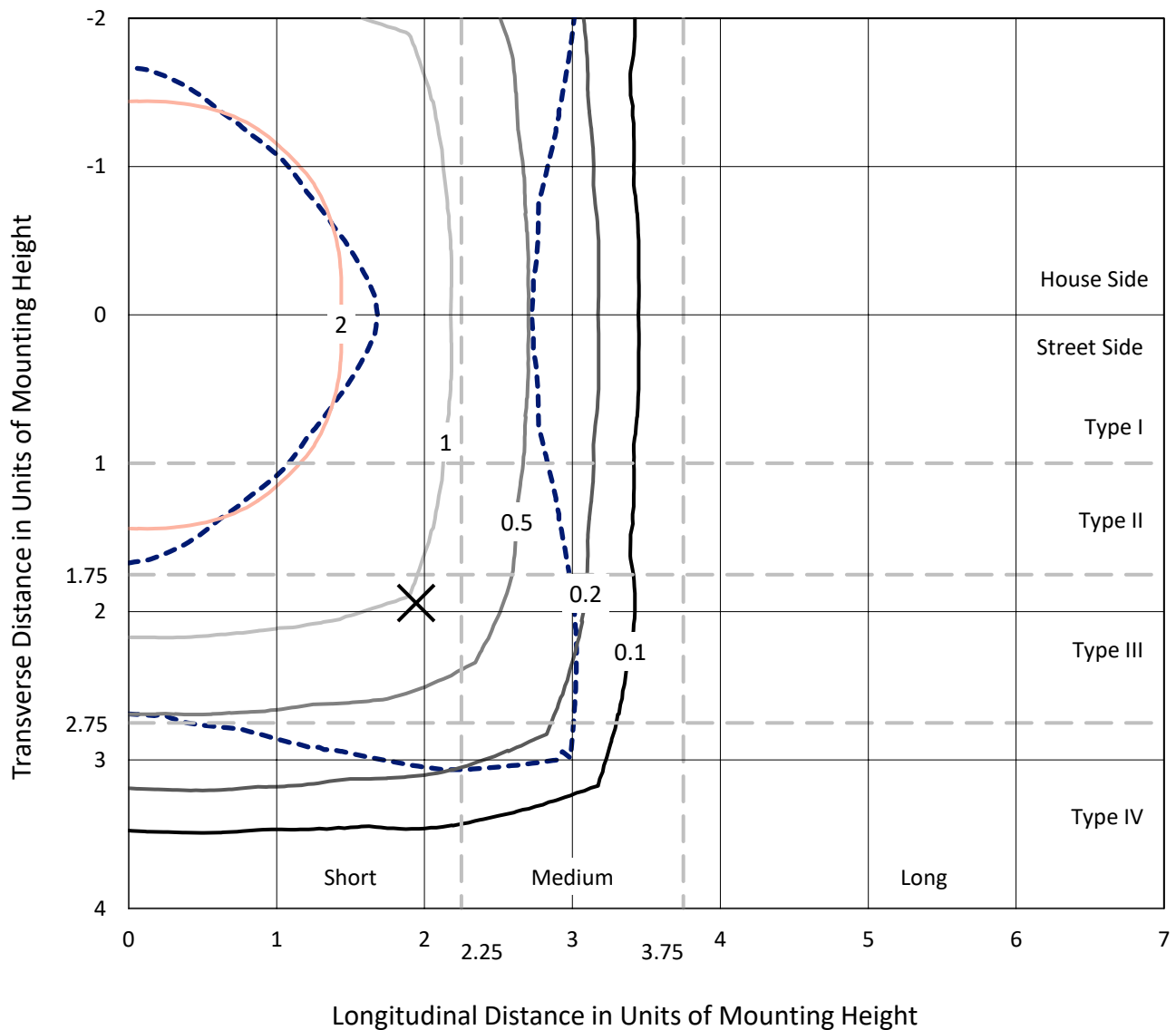


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Iso-Footcandle Lines of Horizontal Illumination

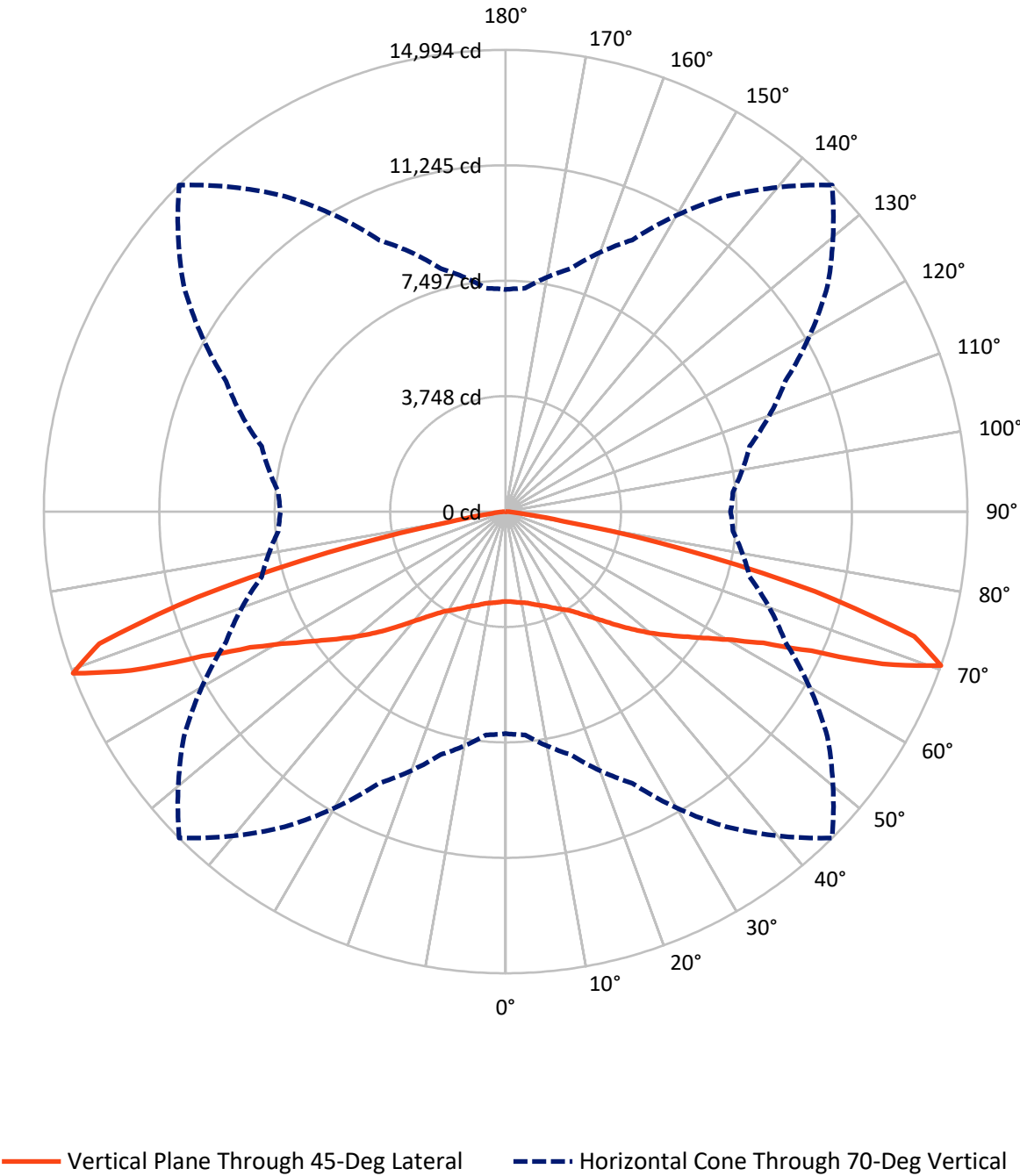
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15266.9	0.0	15266.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15266.9	0.0	15266.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	30533.7	0.0	30533.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	0.9
10°-20°	881.1	2.9
20°-30°	1574.6	5.2
30°-40°	2552.5	8.4
40°-50°	4157.5	13.6
50°-60°	6338.9	20.8
60°-70°	9430.2	30.9
70°-80°	5139.8	16.8
80°-90°	175.0	0.6
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°	30533.7	100.0
0°-180°	30533.7	100.0

Coefficient of Utilization



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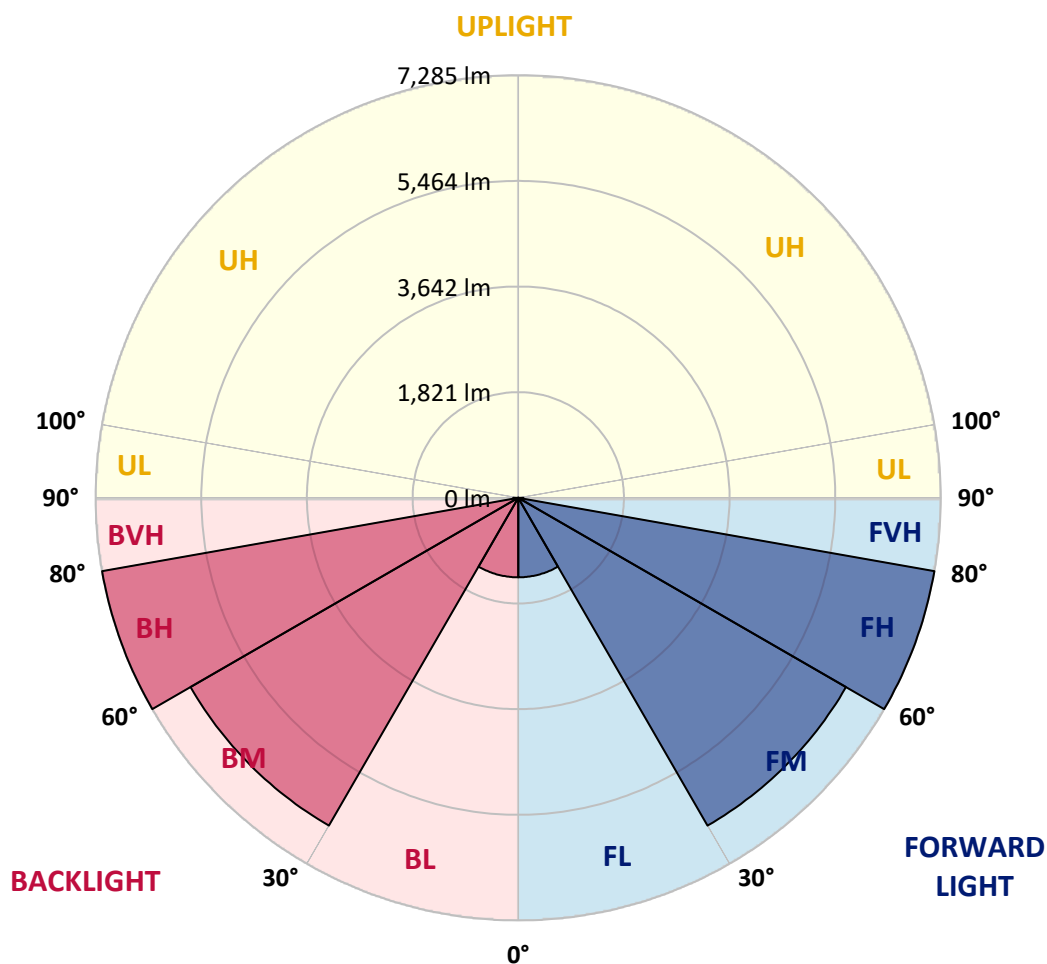
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1369.9	4.5			
FM	(30°-60°)	6524.4	21.4			
FH	(60°-80°)	7285.0	23.9			G3/7500
FVH	(80°-90°)	87.5	0.3			G1/100
BL	(0°-30°)	1369.9	4.5	B3/2500		
BM	(30°-60°)	6524.4	21.4	B4/8500		
BH	(60°-80°)	7285.0	23.9	B5		G3/7500
BVH	(80°-90°)	87.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2924.8	2924.8	2924.8	2924.8	2924.8	2924.8	2924.8	2924.8	2924.8	2924.8	2924.8
2.5°	2938.6	2941.6	2935.5	2932.5	2929.4	2924.8	2926.4	2934.1	2940.1	2938.6	2940.1
5°	2963.2	2966.2	2961.6	2960.1	2953.9	2952.4	2952.4	2960.1	2964.7	2961.6	2963.2
7.5°	2990.7	2995.4	2987.7	2986.1	2983.1	2980.0	2978.4	2986.1	2990.7	2990.7	2990.7
10°	3016.8	3021.4	3015.2	3010.6	3007.6	3007.6	3004.5	3010.6	3018.3	3016.8	3016.8
12.5°	3044.4	3047.4	3041.3	3038.2	3038.2	3042.8	3038.2	3041.3	3047.4	3044.4	3042.8
15°	3078.1	3079.6	3078.1	3082.7	3090.4	3105.7	3091.9	3088.8	3091.9	3084.2	3084.2
17.5°	3124.1	3127.2	3133.3	3144.0	3154.7	3182.3	3157.8	3150.1	3150.1	3134.9	3134.9
20°	3180.8	3185.4	3194.6	3213.0	3226.8	3252.8	3228.3	3217.6	3213.0	3193.1	3193.1
22.5°	3240.6	3248.2	3262.1	3286.6	3311.2	3335.7	3311.2	3292.7	3278.9	3252.8	3251.3
25°	3309.6	3318.7	3340.3	3380.1	3413.9	3449.1	3419.9	3383.1	3355.5	3318.7	3317.2
27.5°	3407.7	3418.4	3444.5	3493.5	3536.5	3567.1	3539.5	3492.0	3453.6	3409.3	3407.7
30°	3545.7	3556.3	3587.0	3639.2	3668.3	3688.3	3669.8	3633.0	3587.0	3536.5	3536.5
32.5°	3723.5	3737.3	3771.0	3820.1	3826.2	3829.2	3823.1	3804.7	3771.0	3709.7	3711.2
35°	3948.8	3964.1	4002.4	4042.3	4036.1	4042.3	4033.1	4027.0	4002.4	3931.9	3931.9
37.5°	4224.7	4243.1	4283.0	4313.6	4298.3	4290.6	4292.2	4293.7	4279.9	4201.8	4201.8
40°	4545.2	4569.7	4598.8	4631.0	4604.9	4581.9	4597.2	4609.5	4597.2	4517.5	4517.5
42.5°	4874.7	4910.0	4940.6	4986.6	4965.1	4936.0	4957.5	4971.2	4945.2	4859.3	4865.5
45°	5241.0	5274.8	5314.6	5383.6	5368.3	5337.6	5368.3	5371.3	5326.9	5225.8	5236.4
47.5°	5619.7	5654.9	5714.7	5806.7	5800.6	5766.9	5806.7	5785.2	5728.5	5607.5	5599.8
50°	5978.4	6027.4	6119.5	6248.2	6260.5	6219.1	6272.7	6231.3	6136.3	5984.6	5981.5
52.5°	6315.6	6367.7	6513.4	6688.1	6732.6	6678.9	6751.0	6678.9	6536.4	6341.7	6323.3
55°	6669.8	6728.0	6901.2	7129.6	7218.6	7178.7	7246.1	7137.3	6934.9	6698.9	6666.7
57.5°	7086.7	7121.9	7328.9	7600.3	7750.4	7759.7	7790.3	7606.3	7361.1	7092.8	7056.0
60°	7538.9	7588.0	7813.3	8138.3	8375.9	8452.6	8420.4	8147.5	7862.4	7554.2	7505.2
62.5°	8118.3	8172.0	8441.8	8831.2	9206.8	9396.8	9271.1	8875.6	8523.1	8153.6	8089.2
65°	8598.1	8658.0	9145.5	9839.8	10523.5	10905.2	10589.4	9861.3	9226.6	8705.4	8619.6
67.5°	8250.2	8323.7	9088.7	10364.1	12064.0	13203.0	12122.4	10520.4	9277.3	8570.5	8464.8
70°	7210.9	7279.9	8172.0	9730.9	12497.9	14993.5	12758.5	10017.6	8201.1	7410.1	7304.4
72.5°	4787.4	5009.6	5912.5	7782.6	11159.7	13874.5	11270.1	7624.8	5484.8	4776.6	4621.7
75°	1588.1	1766.0	2382.2	4034.6	7474.5	10376.4	7115.9	3570.2	1887.0	1358.1	1284.6
77.5°	400.1	461.5	636.1	1154.3	2981.5	5907.9	2684.2	942.8	513.5	358.7	320.4
80°	194.6	214.6	306.6	384.8	746.5	1877.8	700.6	361.7	242.2	187.1	171.7
82.5°	107.3	108.9	173.2	217.7	277.5	486.0	288.2	211.6	139.5	113.5	113.5
85°	65.9	64.4	91.9	116.5	116.5	173.2	138.0	116.5	79.7	70.5	73.6
87.5°	26.0	26.0	33.7	36.8	32.2	44.5	35.3	38.3	30.6	29.1	30.6
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)