

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: P970349

Luminaire Tested: **NAV-SB6B-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35403.5 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 220.4
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

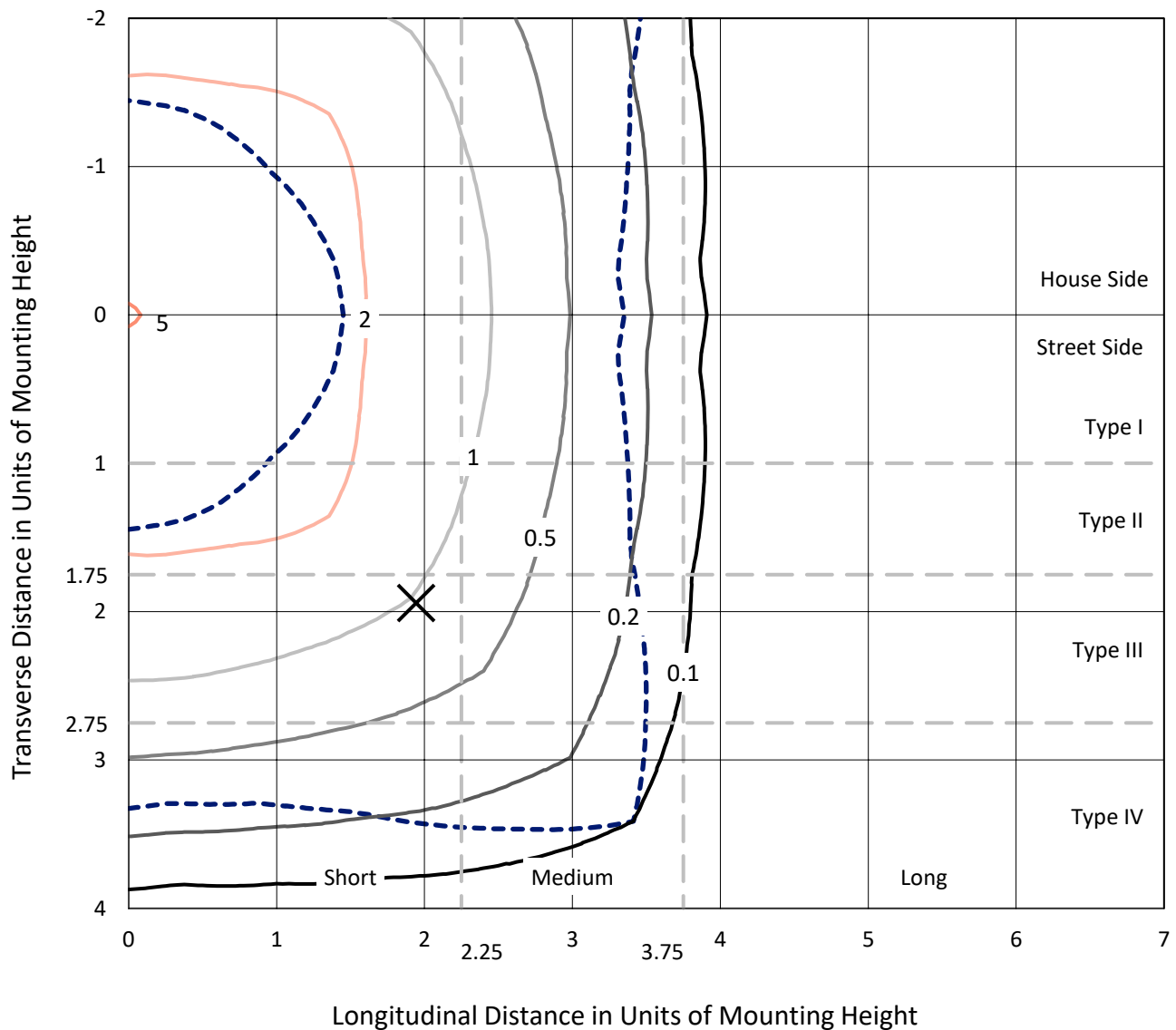


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Iso-Footcandle Lines of Horizontal Illumination

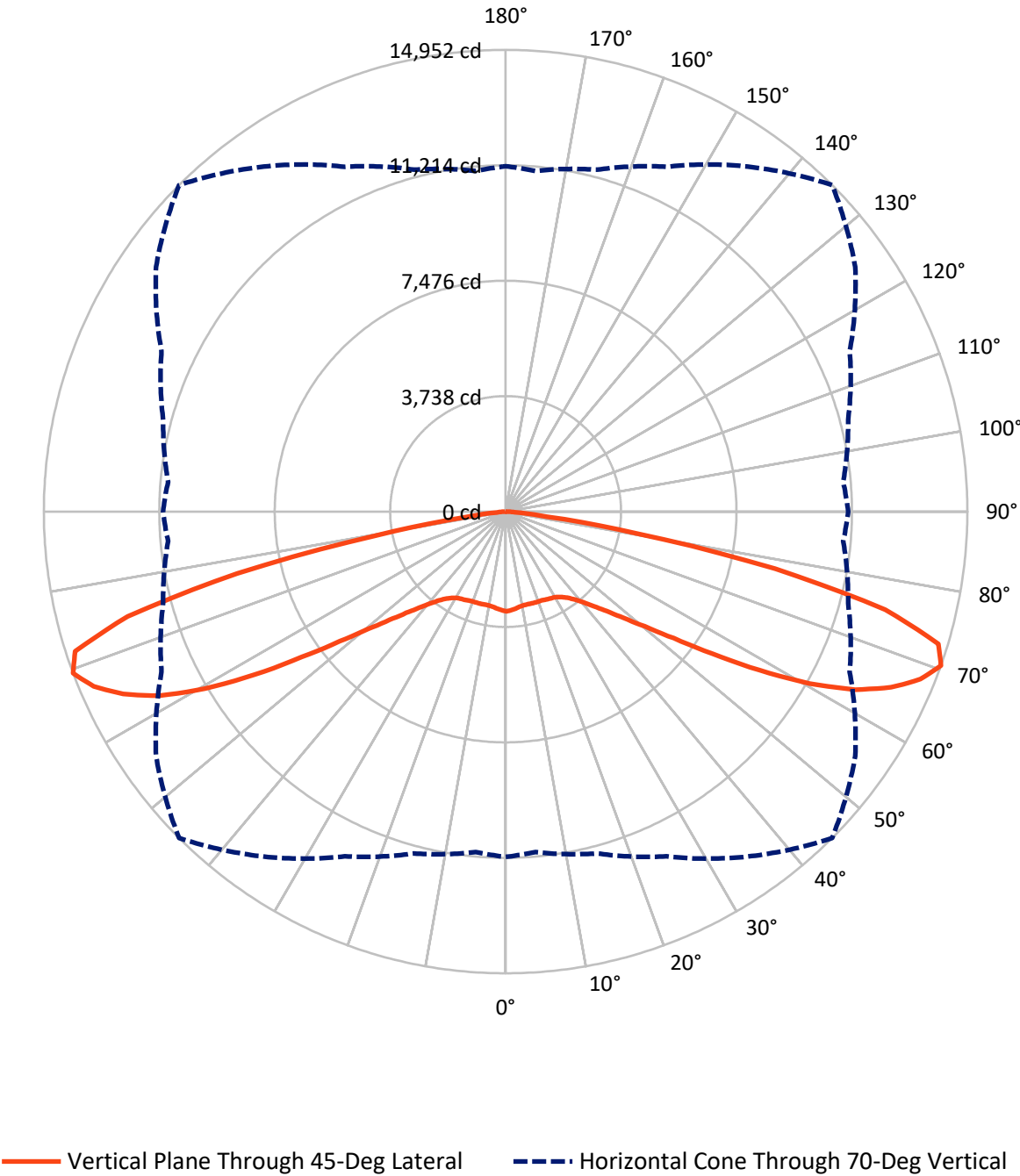
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	17701.7	0.0	17701.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17701.7	0.0	17701.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	35403.5	0.0	35403.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	0.8
10°-20°	882.1	2.5
20°-30°	1468.0	4.1
30°-40°	2220.0	6.3
40°-50°	3689.1	10.4
50°-60°	6961.2	19.7
60°-70°	11754.3	33.2
70°-80°	7723.8	21.8
80°-90°	404.6	1.1
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°	35403.5	100.0
0°-180°	35403.5	100.0

Coefficient of Utilization



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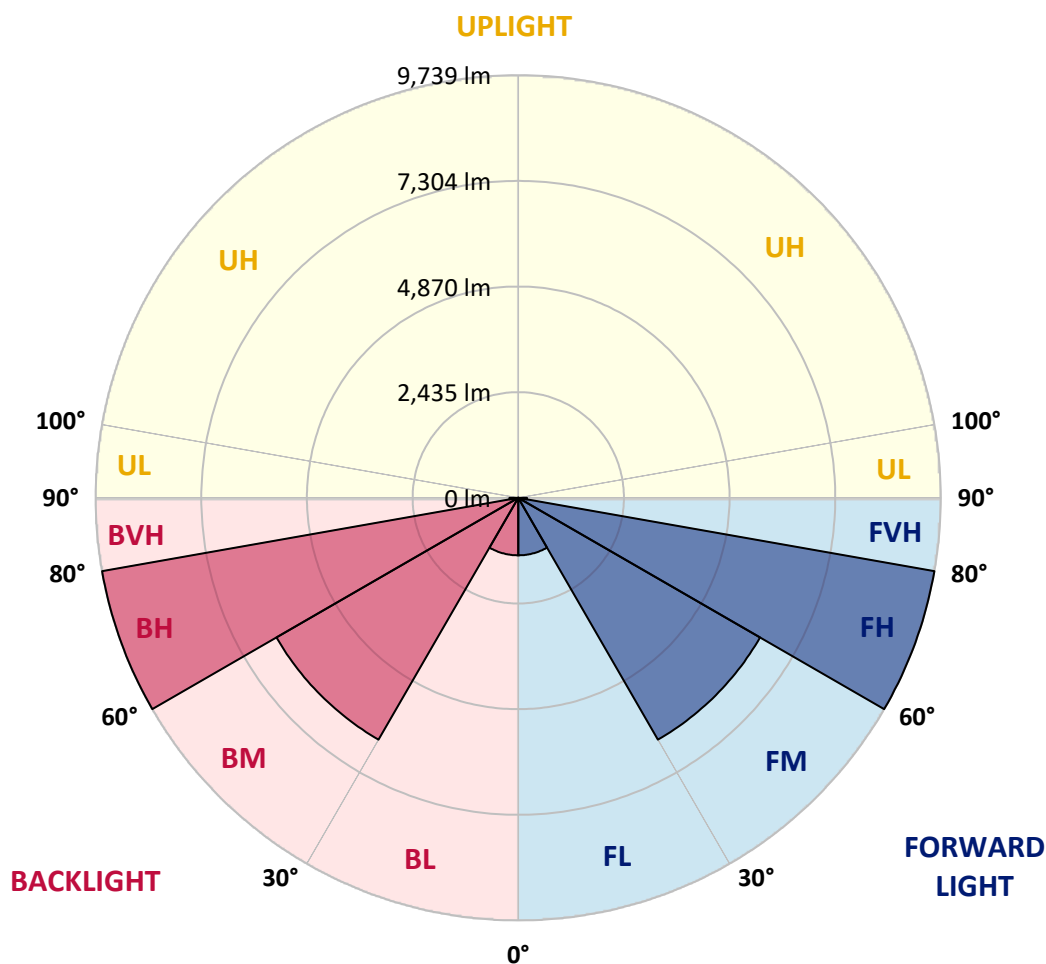
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.2	3.7			
FM	(30°-60°)	6435.2	18.2			
FH	(60°-80°)	9739.0	27.5			G4/12000
FVH	(80°-90°)	202.3	0.6			G2/225
BL	(0°-30°)	1325.2	3.7	B3/2500		
BM	(30°-60°)	6435.2	18.2	B4/8500		
BH	(60°-80°)	9739.0	27.5	B5		G4/12000
BVH	(80°-90°)	202.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3229.5	3229.5	3229.5	3229.5	3229.5	3229.5	3229.5	3229.5	3229.5	3229.5	3229.5
2.5°	3209.3	3218.5	3214.8	3207.4	3207.4	3201.9	3207.4	3211.1	3216.7	3220.3	3218.5
5°	3166.9	3174.3	3172.5	3166.9	3168.8	3163.3	3166.9	3172.5	3176.2	3178.0	3178.0
7.5°	3130.1	3137.5	3133.8	3124.6	3124.6	3119.1	3120.9	3126.5	3132.0	3133.8	3133.8
10°	3120.9	3128.3	3117.2	3102.6	3097.0	3089.7	3091.5	3097.0	3108.1	3113.5	3113.5
12.5°	3124.6	3130.1	3119.1	3097.0	3091.5	3084.1	3084.1	3089.7	3104.4	3111.7	3113.5
15°	3135.7	3141.2	3124.6	3100.7	3095.2	3089.7	3087.8	3095.2	3111.7	3124.6	3126.5
17.5°	3155.9	3161.4	3135.7	3102.6	3095.2	3097.0	3095.2	3100.7	3126.5	3150.3	3150.3
20°	3174.3	3178.0	3143.1	3102.6	3095.2	3097.0	3095.2	3106.3	3139.4	3172.5	3174.3
22.5°	3179.9	3183.5	3150.3	3115.4	3109.8	3111.7	3109.8	3120.9	3152.2	3185.4	3185.4
25°	3181.7	3187.2	3161.4	3133.8	3143.1	3146.7	3143.1	3144.9	3168.8	3198.2	3196.4
27.5°	3209.3	3216.7	3192.7	3168.8	3174.3	3172.5	3178.0	3183.5	3201.9	3231.3	3224.0
30°	3266.3	3271.8	3251.6	3227.6	3224.0	3211.1	3227.6	3246.1	3266.3	3292.1	3286.6
32.5°	3360.2	3371.2	3345.4	3319.7	3303.2	3295.8	3308.6	3340.0	3367.5	3395.1	3384.0
35°	3516.6	3524.0	3500.1	3452.2	3422.7	3422.7	3433.7	3474.2	3518.4	3553.4	3540.5
37.5°	3737.4	3746.6	3704.2	3647.3	3603.1	3603.1	3617.8	3660.1	3726.4	3776.0	3757.6
40°	4006.1	4018.9	3965.6	3906.7	3864.4	3857.0	3875.4	3923.3	3985.8	4048.3	4028.1
42.5°	4329.9	4344.7	4274.8	4223.2	4190.1	4190.1	4199.3	4243.5	4300.5	4377.8	4372.2
45°	4744.0	4769.7	4674.1	4622.5	4591.3	4598.6	4604.1	4642.7	4694.3	4782.6	4779.0
47.5°	5237.1	5262.9	5161.7	5108.3	5102.9	5137.8	5115.7	5143.3	5170.9	5272.1	5242.7
50°	5796.6	5840.8	5770.7	5767.2	5778.1	5842.6	5791.0	5805.8	5774.4	5838.9	5800.3
52.5°	6481.1	6545.5	6532.6	6554.7	6678.0	6810.5	6692.7	6641.2	6523.4	6543.7	6475.5
55°	7311.0	7408.6	7426.9	7559.5	7839.2	8109.7	7859.4	7651.4	7401.2	7355.2	7283.4
57.5°	8255.0	8332.3	8420.7	8691.2	9213.7	9694.0	9213.7	8753.7	8359.9	8266.1	8199.8
60°	9270.8	9366.6	9451.1	9850.5	10627.0	11302.4	10612.3	9881.7	9361.0	9234.0	9123.6
62.5°	10362.0	10485.3	10544.2	10987.7	11893.1	12699.0	11906.0	11020.8	10443.0	10306.8	10196.4
65°	11409.1	11510.3	11576.6	12049.5	12914.4	13722.2	12973.2	12101.0	11506.6	11328.1	11239.8
67.5°	11896.8	11951.9	12113.9	12649.4	13562.1	14484.1	13716.7	12706.4	12042.1	11729.3	11733.0
70°	11182.7	11070.5	11460.6	12318.1	13639.4	14951.5	13816.1	12292.4	11479.1	10971.2	11092.6
72.5°	8641.5	8448.3	9125.5	10592.0	12756.1	14653.3	12844.5	10674.9	9546.8	8516.3	8772.2
75°	4701.7	4482.6	5417.4	7272.4	10172.5	12700.9	10406.2	7480.3	6032.1	4666.7	4970.3
77.5°	1326.8	1243.9	1998.4	3518.4	6118.6	8917.5	6354.2	3595.7	2370.1	1405.9	1562.3
80°	406.7	393.8	533.6	1060.0	2598.4	4271.1	2497.1	1072.9	679.1	428.8	452.6
82.5°	241.1	220.8	265.0	386.4	662.5	1341.5	644.1	403.0	323.9	217.1	235.5
85°	138.0	128.8	156.4	187.7	222.6	285.3	185.8	191.4	173.0	115.9	121.5
87.5°	57.1	51.6	60.7	58.8	51.6	66.2	49.7	58.8	69.9	46.0	42.3
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)