

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: P884162

Luminaire Tested: **NAV-SB4D-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35197 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

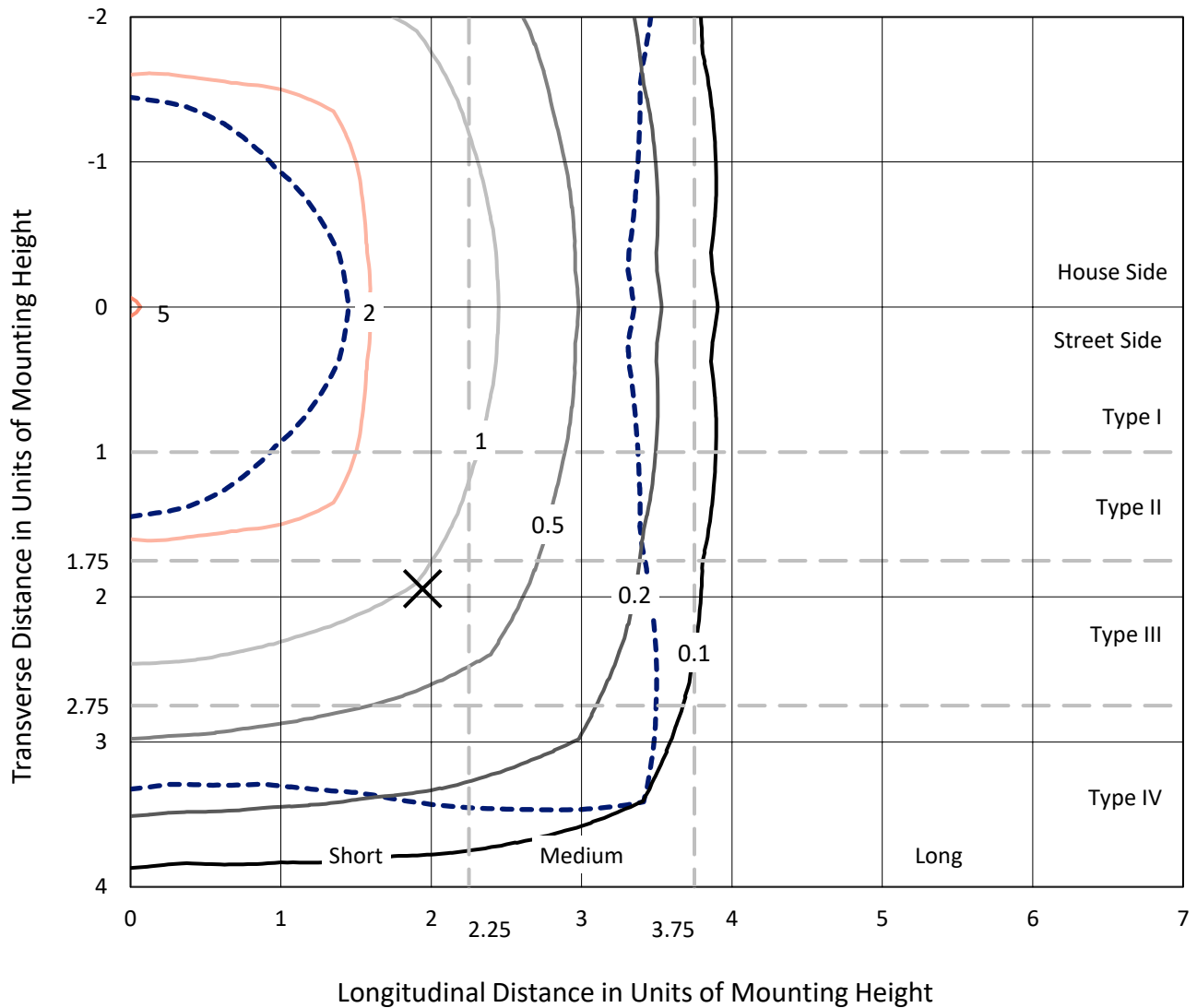
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

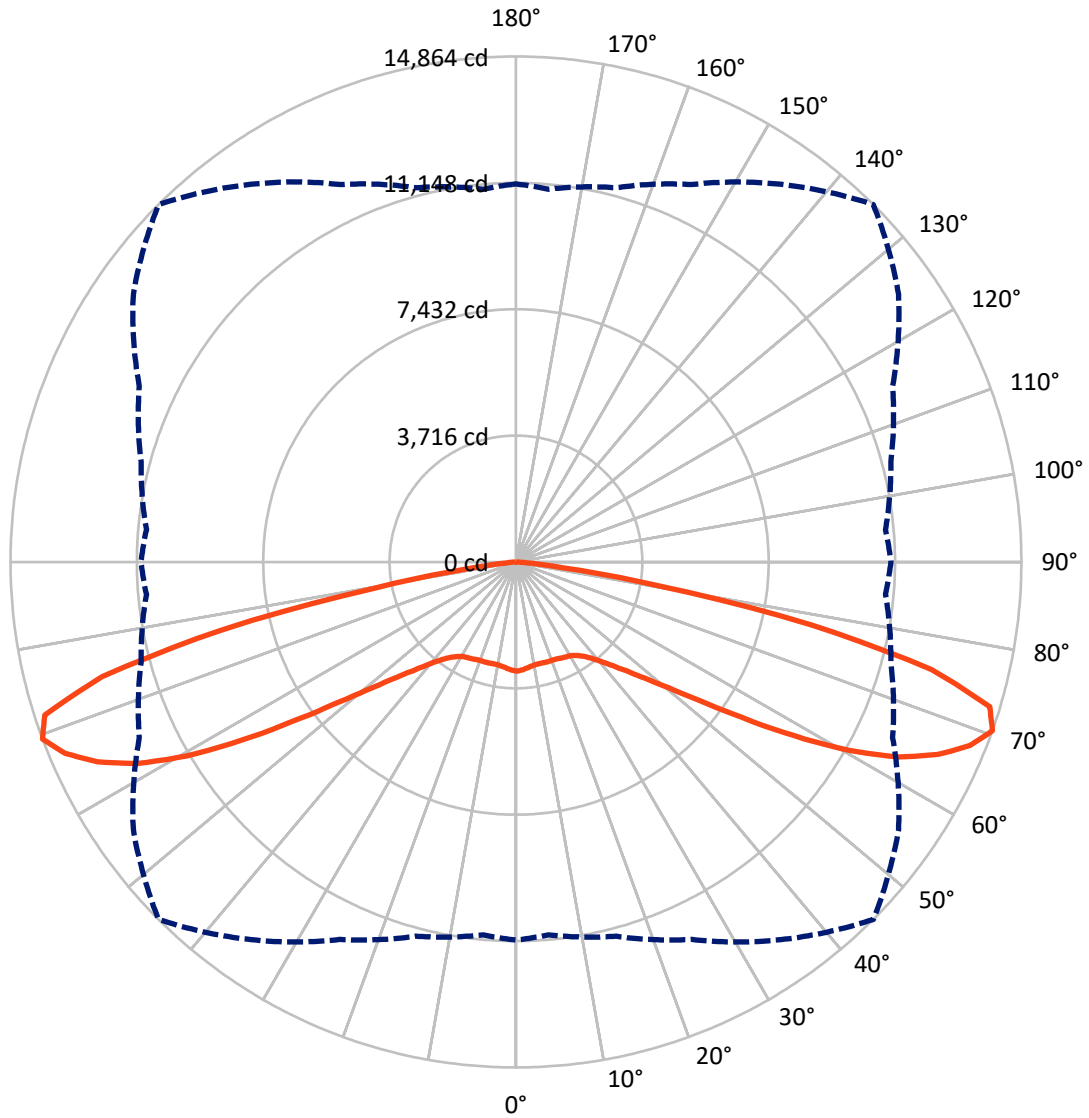
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17598.5	0.0	17598.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17598.5	0.0	17598.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35197.0	0.0	35197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	0.8
10°-20°	877.0	2.5
20°-30°	1459.4	4.1
30°-40°	2207.0	6.3
40°-50°	3667.6	10.4
50°-60°	6920.6	19.7
60°-70°	11685.7	33.2
70°-80°	7678.7	21.8
80°-90°	402.3	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°	35197.0	100.0
0°-180°	35197.0	100.0

Coefficient of Utilization

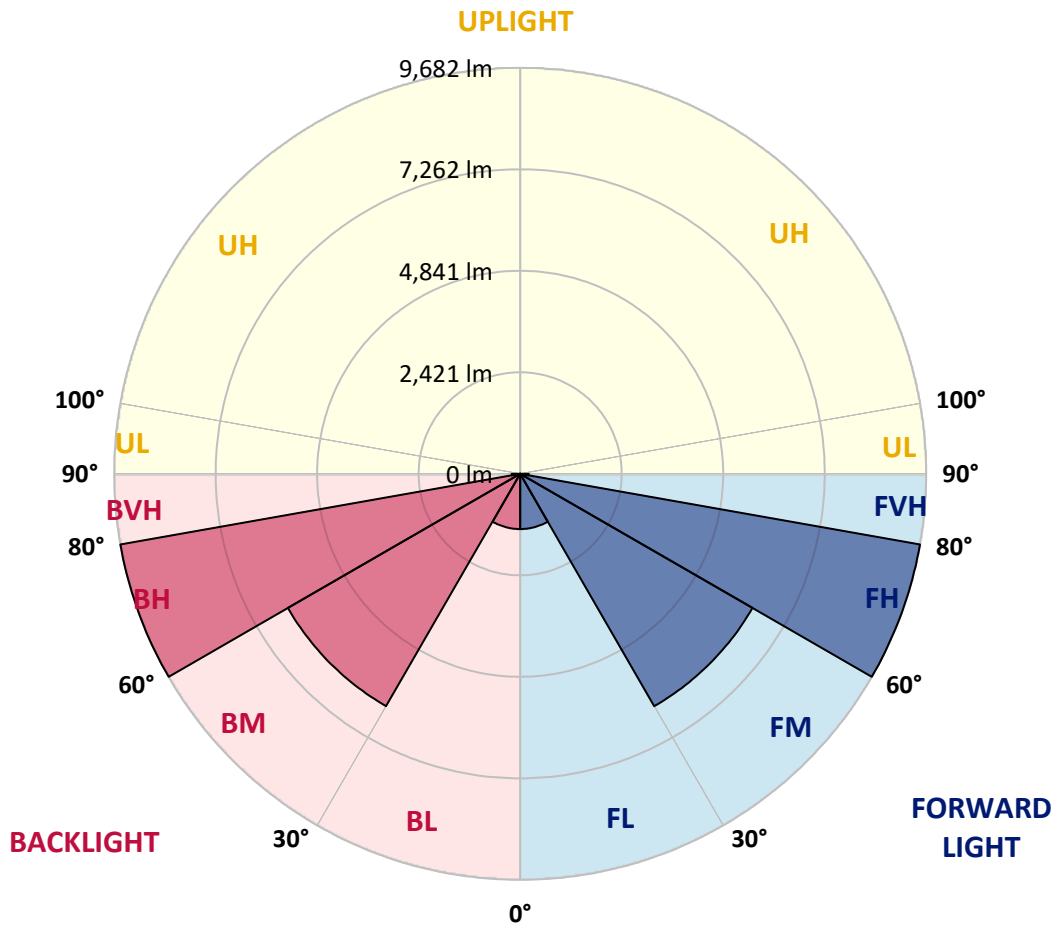


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.5	3.7			
FM (30°-60°)	6397.6	18.2			
FH (60°-80°)	9682.2	27.5			G4/12000
FVH (80°-90°)	201.1	0.6			G2/225
BL (0°-30°)	1317.5	3.7	B3/2500		
BM (30°-60°)	6397.6	18.2	B4/8500		
BH (60°-80°)	9682.2	27.5	B5		G4/12000
BVH (80°-90°)	201.1	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°	3210.7	3210.7	3210.7	3210.7	3210.7	3210.7	3210.7	3210.7	3210.7	3210.7	3210.7
2.5°	3190.6	3199.7	3196.0	3188.7	3188.7	3183.2	3188.7	3192.4	3197.9	3201.5	3199.7
5°	3148.5	3155.8	3154.0	3148.5	3150.3	3144.8	3148.5	3154.0	3157.6	3159.5	3159.5
7.5°	3111.9	3119.2	3115.5	3106.4	3106.4	3100.9	3102.7	3108.2	3113.7	3115.5	3115.5
10°	3102.7	3110.1	3099.1	3084.4	3079.0	3071.6	3073.5	3079.0	3089.9	3095.4	3095.4
12.5°	3106.4	3111.9	3100.9	3079.0	3073.5	3066.1	3066.1	3071.6	3086.3	3093.6	3095.4
15°	3117.4	3122.9	3106.4	3082.6	3077.1	3071.6	3069.8	3077.1	3093.6	3106.4	3108.2
17.5°	3137.5	3143.0	3117.4	3084.4	3077.1	3079.0	3077.1	3082.6	3108.2	3132.0	3132.0
20°	3155.8	3159.5	3124.7	3084.4	3077.1	3079.0	3077.1	3088.1	3121.0	3154.0	3155.8
22.5°	3161.3	3164.9	3132.0	3097.2	3091.8	3093.6	3091.8	3102.7	3133.8	3166.8	3166.8
25°	3163.1	3168.6	3143.0	3115.5	3124.7	3128.4	3124.7	3126.5	3150.3	3179.6	3177.7
27.5°	3190.6	3197.9	3174.1	3150.3	3155.8	3154.0	3159.5	3164.9	3183.2	3212.5	3205.2
30°	3247.3	3252.8	3232.6	3208.8	3205.2	3192.4	3208.8	3227.1	3247.3	3272.9	3267.4
32.5°	3340.6	3351.5	3325.9	3300.3	3283.9	3276.5	3289.3	3320.4	3347.9	3375.3	3364.3
35°	3496.1	3503.4	3479.6	3432.0	3402.8	3402.8	3413.7	3454.0	3497.9	3532.7	3519.9
37.5°	3715.6	3724.7	3682.7	3626.0	3582.1	3582.1	3596.7	3638.8	3704.6	3754.0	3735.7
40°	3982.7	3995.5	3942.5	3883.9	3841.8	3834.5	3852.8	3900.4	3962.6	4024.8	4004.7
42.5°	4304.7	4319.3	4249.8	4198.6	4165.6	4165.6	4174.8	4218.7	4275.4	4352.2	4346.8
45°	4716.3	4741.9	4646.8	4595.6	4564.5	4571.8	4577.3	4615.7	4666.9	4754.7	4751.1
47.5°	5206.6	5232.2	5131.6	5078.5	5073.0	5107.8	5085.9	5113.3	5140.7	5241.4	5212.1
50°	5762.8	5806.7	5737.1	5733.5	5744.5	5808.5	5757.3	5771.9	5740.8	5804.8	5766.4
52.5°	6443.3	6507.3	6494.5	6516.5	6639.1	6770.8	6653.7	6602.5	6485.4	6505.5	6437.8
55°	7268.4	7365.3	7383.6	7515.4	7793.4	8062.4	7813.6	7606.8	7358.0	7312.3	7240.9
57.5°	8206.9	8283.7	8371.5	8640.5	9160.0	9637.5	9160.0	8702.7	8311.2	8217.9	8152.0
60°	9216.7	9311.9	9396.0	9793.0	10565.0	11236.4	10550.4	9824.1	9306.4	9180.2	9070.4
62.5°	10301.6	10424.2	10482.7	10923.6	11823.7	12625.0	11836.5	10956.5	10382.1	10246.7	10137.0
65°	11342.6	11443.2	11509.0	11979.2	12839.0	13642.2	12897.6	12030.4	11439.5	11262.1	11174.2
67.5°	11827.4	11882.2	12043.2	12575.6	13483.0	14399.6	13636.7	12632.3	11971.9	11660.9	11664.5
70°	11117.5	11005.9	11393.8	12246.3	13559.8	14864.2	13735.5	12220.7	11412.1	10907.1	11027.9
72.5°	8591.1	8399.0	9072.2	10530.3	12681.7	14567.9	12769.5	10612.6	9491.2	8466.7	8721.0
75°	4674.2	4456.5	5385.9	7230.0	10113.2	12626.8	10345.5	7436.7	5996.9	4639.5	4941.3
77.5°	1319.0	1236.7	1986.8	3497.9	6082.9	8865.5	6317.1	3574.7	2356.3	1397.7	1553.2
80°	404.3	391.5	530.5	1053.8	2583.2	4246.1	2482.6	1066.6	675.1	426.3	450.0
82.5°	239.7	219.5	263.4	384.2	658.6	1333.7	640.3	400.6	322.0	215.9	234.2
85°	137.2	128.1	155.5	186.6	221.4	283.6	184.8	190.3	172.0	115.3	120.7
87.5°	56.7	51.2	60.4	58.5	51.2	65.9	49.4	58.5	69.5	45.7	42.1
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)