

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: P885525

Luminaire Tested: **NAV-SB6D-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51555 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

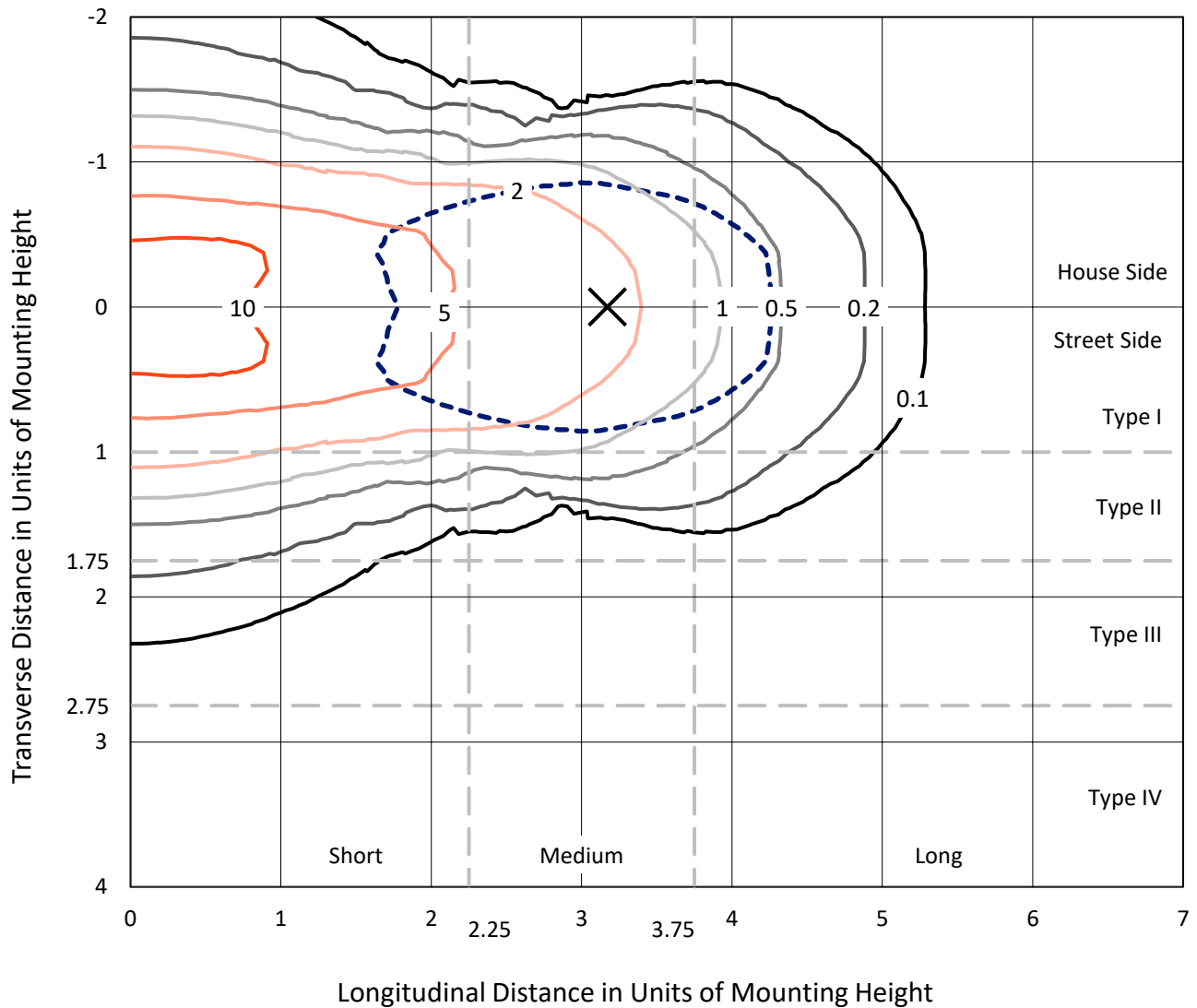
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

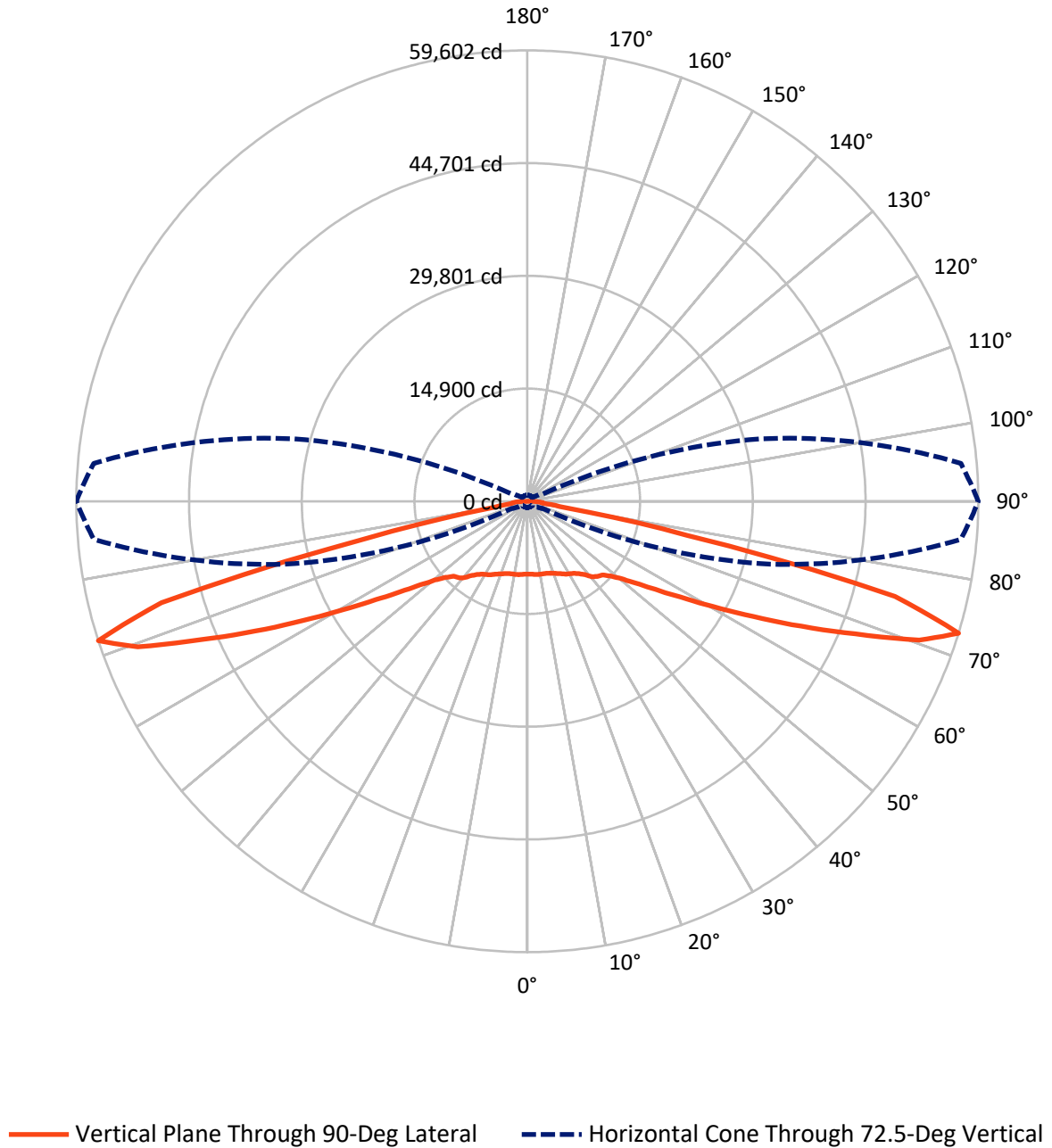
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25777.5	0.0	25777.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25777.5	0.0	25777.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51555.0	0.0	51555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.1	1.8
10°-20°	2856.1	5.5
20°-30°	4762.3	9.2
30°-40°	6549.6	12.7
40°-50°	7998.8	15.5
50°-60°	9251.5	17.9
60°-70°	11030.9	21.4
70°-80°	7698.8	14.9
80°-90°	472.9	0.9
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°	51555.0	100.0
0°-180°	51555.0	100.0

Coefficient of Utilization



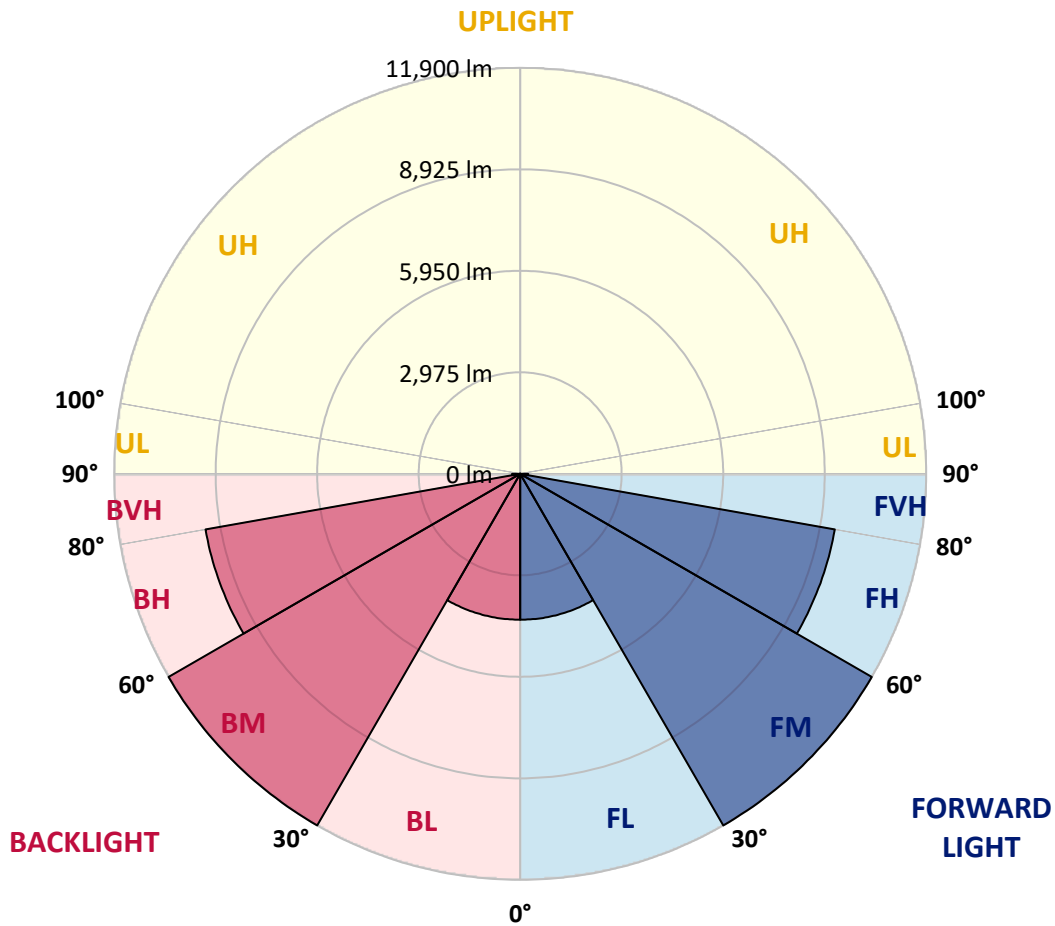
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4276.2	8.3			
FM (30°-60°)	11900.0	23.1			
FH (60°-80°)	9364.9	18.2			G4/12000
FVH (80°-90°)	236.4	0.5			G3/500
BL (0°-30°)	4276.2	8.3	B4/5000		
BM (30°-60°)	11900.0	23.1	B5		
BH (60°-80°)	9364.9	18.2	B5		G5
BVH (80°-90°)	236.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9633.6	9633.6	9633.6	9633.6	9633.6	9633.6	9633.6	9633.6	9633.6	9633.6	9633.6
2.5°	9641.8	9652.8	9652.8	9644.6	9663.7	9647.3	9647.3	9639.1	9647.3	9639.1	9639.1
5°	9691.1	9704.8	9710.3	9707.6	9732.2	9718.5	9718.5	9707.6	9710.3	9702.1	9702.1
7.5°	9784.3	9803.5	9814.4	9828.1	9863.8	9847.3	9836.4	9803.5	9789.8	9767.9	9767.9
10°	9814.4	9836.4	9872.0	9943.2	10025.4	10028.1	9995.3	9913.1	9850.1	9800.7	9792.5
12.5°	9721.3	9751.4	9825.4	9970.6	10154.2	10228.2	10176.1	10039.1	9915.8	9828.1	9814.4
15°	9603.5	9636.3	9748.7	9967.9	10239.1	10411.7	10406.3	10225.4	10028.1	9891.1	9869.2
17.5°	9419.9	9452.8	9614.4	9921.3	10304.9	10589.8	10666.5	10480.2	10203.5	10019.9	9989.8
20°	9088.3	9118.5	9343.2	9773.3	10326.8	10778.9	10978.9	10814.5	10469.3	10219.9	10173.4
22.5°	8658.2	8704.8	8967.8	9518.5	10274.7	10976.2	11335.1	11222.8	10778.9	10433.7	10370.6
25°	8197.9	8247.2	8554.1	9206.2	10140.5	11118.6	11757.0	11685.8	11129.6	10699.4	10611.8
27.5°	7800.6	7852.6	8186.9	8896.6	9932.2	11173.4	12173.5	12209.1	11554.3	10992.6	10899.4
30°	7488.2	7537.5	7893.7	8647.2	9663.7	11118.6	12537.9	12784.5	11987.2	11247.4	11113.2
32.5°	7145.7	7208.8	7584.1	8343.1	9345.9	10987.1	12855.8	13406.5	12488.6	11521.4	11351.5
35°	6712.8	6770.4	7164.9	7926.6	8929.4	10776.1	13121.5	14096.9	13206.5	11937.9	11748.8
37.5°	6186.8	6241.6	6633.4	7406.0	8515.7	10480.2	13324.3	14875.1	14061.3	12537.9	12285.8
40°	5658.0	5710.0	6077.2	6825.2	8019.8	10102.1	13395.5	15636.8	15042.2	13362.6	13094.1
42.5°	5173.0	5219.6	5556.6	6252.5	7463.6	9619.9	13302.4	16299.8	15921.7	13938.0	13592.8
45°	4726.4	4767.5	5066.1	5715.5	6885.4	9033.6	13022.9	17012.2	16968.4	14349.0	13883.2
47.5°	4216.8	4257.9	4567.5	5194.9	6307.3	8345.8	12548.9	17713.7	18423.3	15280.6	14743.6
50°	3594.8	3630.4	3948.2	4594.9	5707.3	7614.3	11891.3	18264.4	20259.0	16691.7	16017.6
52.5°	2857.7	2896.1	3205.7	3852.3	4994.9	6827.9	11025.5	18623.3	22379.8	18752.1	17921.9
55°	2126.2	2153.6	2422.1	3003.0	4112.6	5931.9	9940.5	18724.7	24785.4	21568.7	20530.3
57.5°	1542.6	1559.0	1731.6	2164.5	3118.0	4811.3	8622.6	18461.7	27648.6	25180.0	23873.0
60°	1249.4	1254.9	1306.9	1498.7	2167.3	3545.5	7030.7	17557.5	30755.7	29835.1	28188.4
62.5°	1134.3	1134.3	1148.0	1200.1	1465.9	2339.9	5104.5	15683.4	34087.5	35717.7	33512.1
65°	1054.9	1054.9	1060.4	1085.0	1156.3	1490.5	3222.2	12631.1	36895.9	42608.7	39819.4
67.5°	983.6	986.4	983.6	991.9	1033.0	1101.5	1868.6	8723.9	38408.3	49748.9	46737.7
70°	909.7	915.1	901.4	901.4	934.3	937.1	1170.0	4783.9	37153.5	55732.9	54941.1
72.5°	822.0	830.2	808.3	802.8	827.5	816.5	879.5	2296.1	31898.3	57519.4	59601.7
75°	745.3	756.2	706.9	693.2	693.2	685.0	715.1	1178.2	20702.9	46921.3	50187.3
77.5°	676.8	698.7	619.2	575.4	564.4	539.8	583.6	720.6	9055.5	22029.0	21571.5
80°	558.9	589.1	509.6	457.6	438.4	411.0	460.3	504.1	2693.4	5115.5	4899.0
82.5°	416.5	430.2	361.7	326.1	309.6	290.4	345.2	350.7	876.8	1811.1	2046.7
85°	265.8	271.3	221.9	191.8	183.6	175.4	219.2	191.8	334.3	1331.6	1934.4
87.5°	93.2	106.9	84.9	76.7	82.2	68.5	101.4	57.5	93.2	939.8	1164.5
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)