

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: P971572

Luminaire Tested: **NAV-SB6D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56224.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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

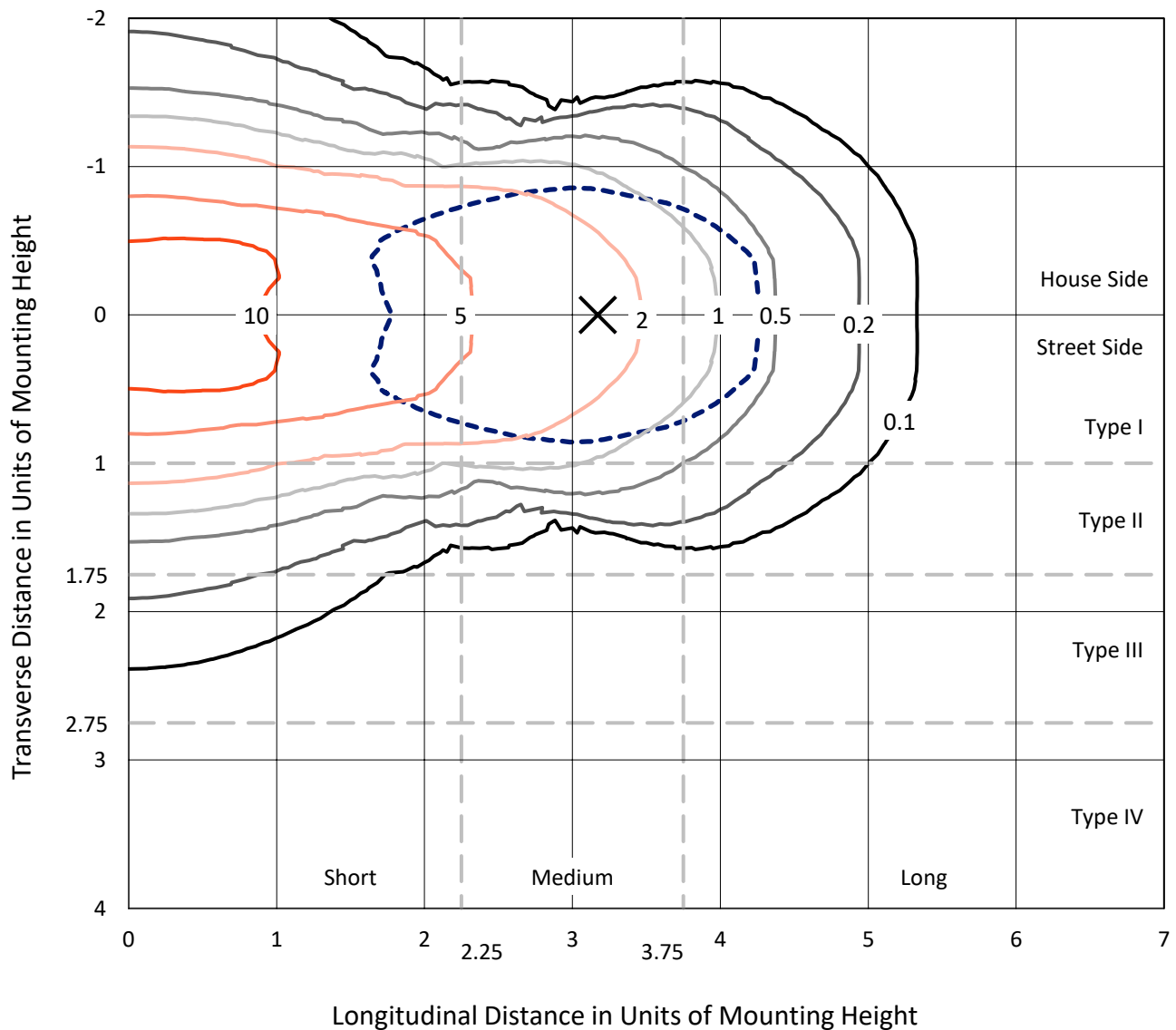


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Iso-Footcandle Lines of Horizontal Illumination

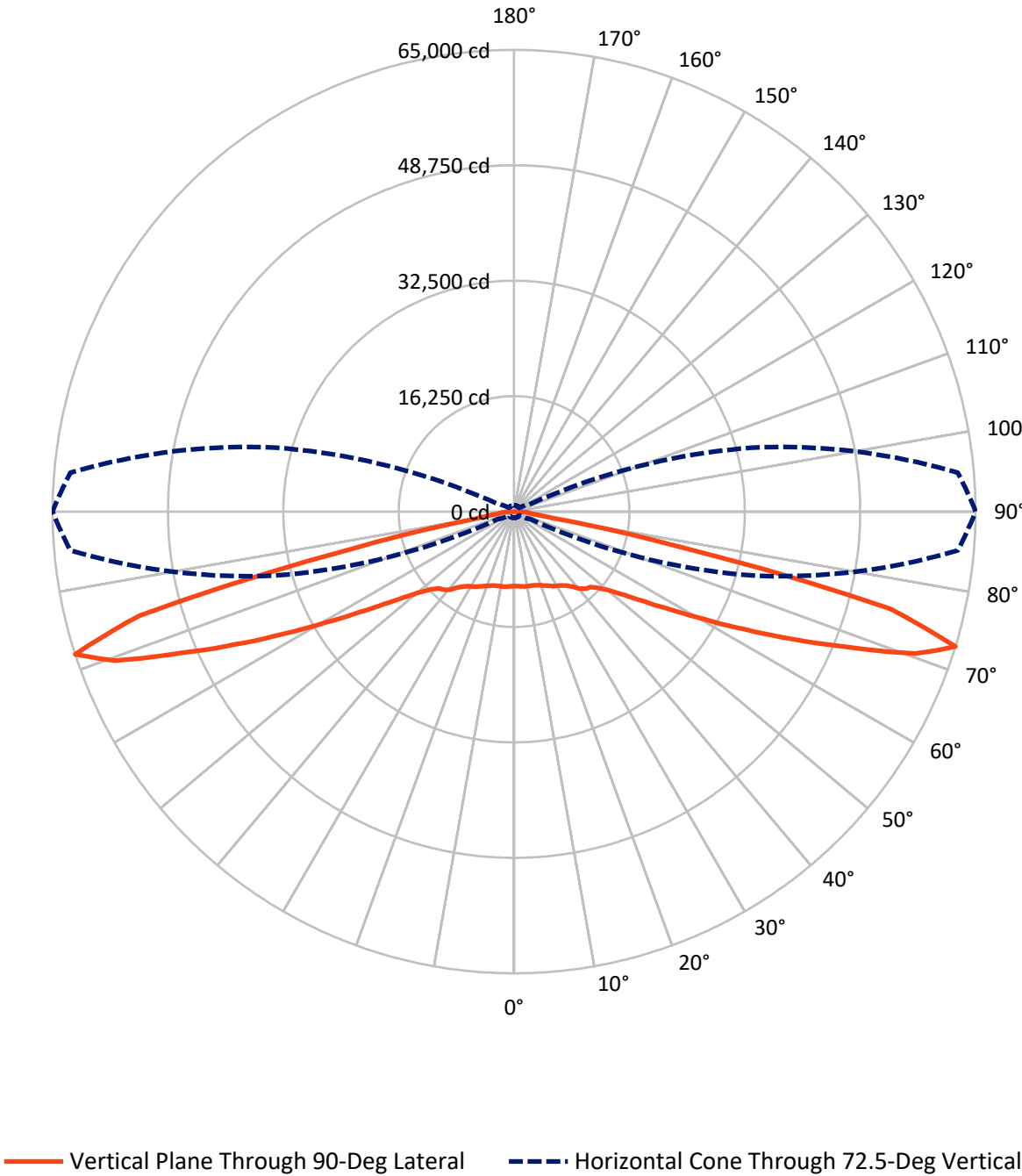
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	28112.2	0.0	28112.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28112.2	0.0	28112.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	56224.3	0.0	56224.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1018.7	1.8
10°-20°	3114.8	5.5
20°-30°	5193.6	9.2
30°-40°	7142.8	12.7
40°-50°	8723.3	15.5
50°-60°	10089.4	17.9
60°-70°	12030.0	21.4
70°-80°	8396.1	14.9
80°-90°	515.7	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°	56224.3	100.0
0°-180°	56224.3	100.0

Coefficient of Utilization



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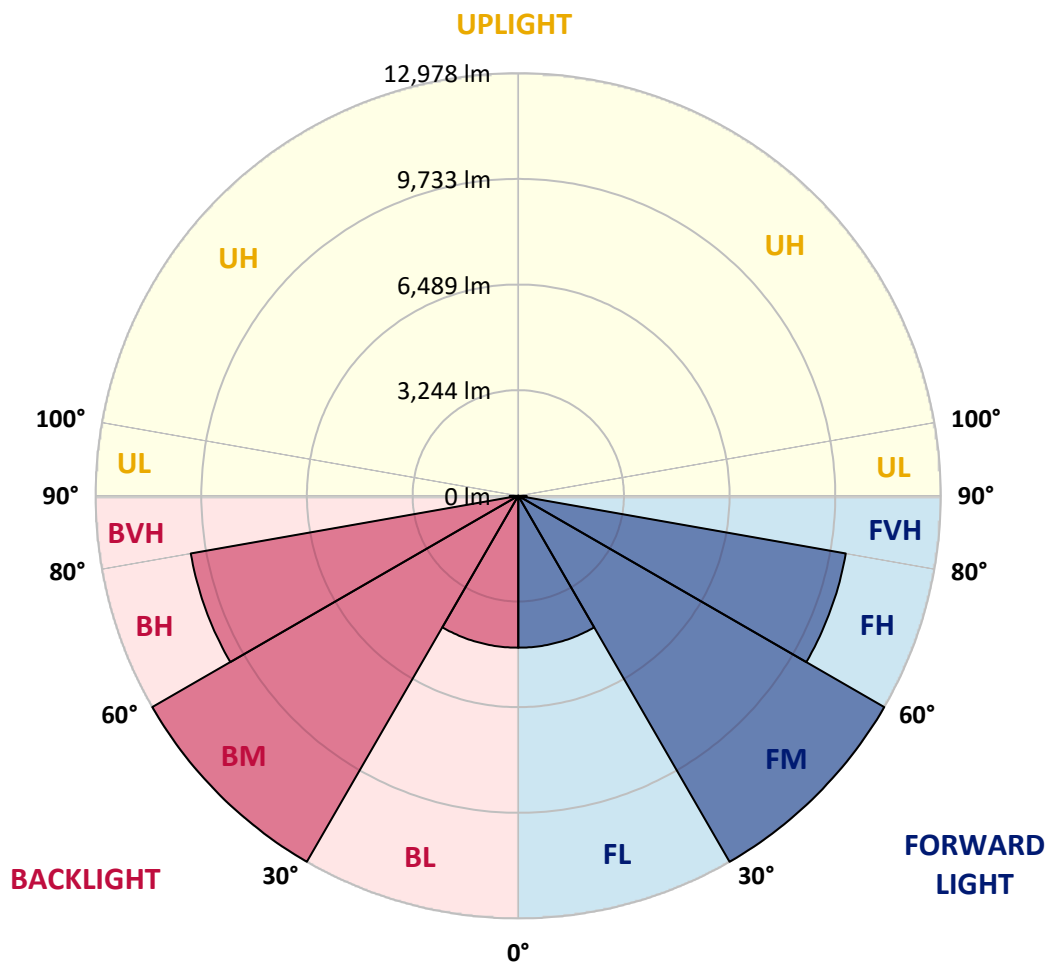
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4663.5	8.3			
FM	(30°-60°)	12977.7	23.1			
FH	(60°-80°)	10213.1	18.2			G4/12000
FVH	(80°-90°)	257.8	0.5			G3/500
BL	(0°-30°)	4663.5	8.3	B4/5000		
BM	(30°-60°)	12977.7	23.1	B5		
BH	(60°-80°)	10213.1	18.2	B5		G5
BVH	(80°-90°)	257.8	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°	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1
2.5°	10515.1	10527.1	10527.1	10518.0	10538.9	10521.0	10521.0	10512.1	10521.0	10512.1	10512.1
5°	10568.9	10583.8	10589.8	10586.8	10613.7	10598.7	10598.7	10586.8	10589.8	10580.8	10580.8
7.5°	10670.5	10691.4	10703.4	10718.2	10757.1	10739.1	10727.2	10691.4	10676.4	10652.5	10652.5
10°	10703.4	10727.2	10766.1	10843.8	10933.4	10936.4	10900.6	10810.9	10742.2	10688.4	10679.4
12.5°	10601.7	10634.6	10715.2	10873.6	11073.9	11154.6	11097.8	10948.3	10813.9	10718.2	10703.4
15°	10473.2	10509.1	10631.6	10870.6	11166.5	11354.7	11348.7	11151.5	10936.4	10787.0	10763.1
17.5°	10273.1	10308.9	10485.2	10819.9	11238.2	11549.0	11632.6	11429.5	11127.6	10927.4	10894.5
20°	9911.4	9944.3	10189.4	10658.5	11262.1	11755.1	11973.2	11794.0	11417.5	11145.5	11094.8
22.5°	9442.3	9493.1	9780.0	10380.6	11205.3	11970.3	12361.7	12239.2	11755.1	11378.6	11310.0
25°	8940.4	8994.2	9328.8	10040.0	11058.9	12125.6	12821.8	12744.2	12137.6	11668.5	11572.9
27.5°	8507.1	8563.9	8928.4	9702.3	10831.8	12185.4	13276.1	13315.0	12600.7	11988.2	11886.6
30°	8166.5	8220.2	8608.7	9430.4	10538.9	12125.6	13673.5	13942.4	13072.8	12266.1	12119.7
32.5°	7793.0	7861.6	8271.0	9098.7	10192.4	11982.2	14020.1	14620.7	13619.7	12564.9	12379.6
35°	7320.9	7383.6	7813.9	8644.5	9738.2	11752.1	14309.9	15373.7	14402.6	13019.0	12812.9
37.5°	6747.1	6806.8	7234.1	8076.8	9287.0	11429.5	14531.0	16222.3	15334.8	13673.5	13398.6
40°	6170.4	6227.2	6627.5	7443.3	8746.1	11017.1	14608.7	17053.0	16404.6	14572.9	14280.1
42.5°	5641.5	5692.3	6059.8	6818.8	8139.5	10491.2	14507.1	17776.2	17363.8	15200.3	14823.9
45°	5154.4	5199.3	5525.0	6233.1	7509.0	9851.7	14202.4	18553.0	18505.2	15648.6	15140.6
47.5°	4598.7	4643.5	4981.1	5665.4	6878.6	9101.7	13685.4	19318.0	20091.8	16664.6	16078.9
50°	3920.3	3959.2	4305.8	5011.0	6224.2	8303.9	12968.3	19918.6	22093.9	18203.4	17468.4
52.5°	3116.6	3158.4	3496.1	4201.3	5447.3	7446.3	12024.1	20310.1	24406.7	20450.5	19545.1
55°	2318.8	2348.7	2641.4	3275.0	4485.1	6469.2	10840.8	20420.6	27030.2	23522.2	22389.7
57.5°	1682.3	1700.3	1888.5	2360.6	3400.4	5247.1	9403.6	20133.8	30152.7	27460.5	26035.2
60°	1362.5	1368.6	1425.4	1634.5	2363.5	3866.6	7667.4	19147.6	33541.3	32537.3	30741.4
62.5°	1237.1	1237.1	1252.0	1308.8	1598.6	2551.8	5566.8	17103.8	37174.8	38952.7	36547.3
65°	1150.5	1150.5	1156.4	1183.3	1261.0	1625.5	3514.0	13775.1	40237.6	46467.8	43425.9
67.5°	1072.8	1075.7	1072.8	1081.7	1126.5	1201.2	2037.9	9514.0	41886.9	54254.7	50970.8
70°	992.0	998.0	983.1	983.1	1019.0	1021.9	1275.9	5217.1	40518.5	60780.7	59917.1
72.5°	896.5	905.4	881.5	875.6	902.4	890.4	959.2	2504.0	34787.3	62728.9	64999.9
75°	812.7	824.7	770.9	755.9	755.9	747.0	779.9	1284.8	22578.0	51171.0	54732.7
77.5°	738.1	762.0	675.3	627.5	615.5	588.7	636.4	785.9	9875.7	24024.3	23525.2
80°	609.6	642.5	555.8	499.0	478.1	448.2	502.0	549.8	2937.2	5578.8	5342.7
82.5°	454.2	469.1	394.4	355.6	337.6	316.7	376.5	382.4	956.2	1975.2	2232.1
85°	289.9	295.8	242.0	209.2	200.2	191.3	239.0	209.2	364.6	1452.2	2109.6
87.5°	101.6	116.5	92.7	83.6	89.7	74.7	110.6	62.7	101.6	1024.9	1270.0
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)