

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: P964039

Luminaire Tested: **NAV-SB3B-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964039
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-SB3B-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17131.8 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 109.2
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



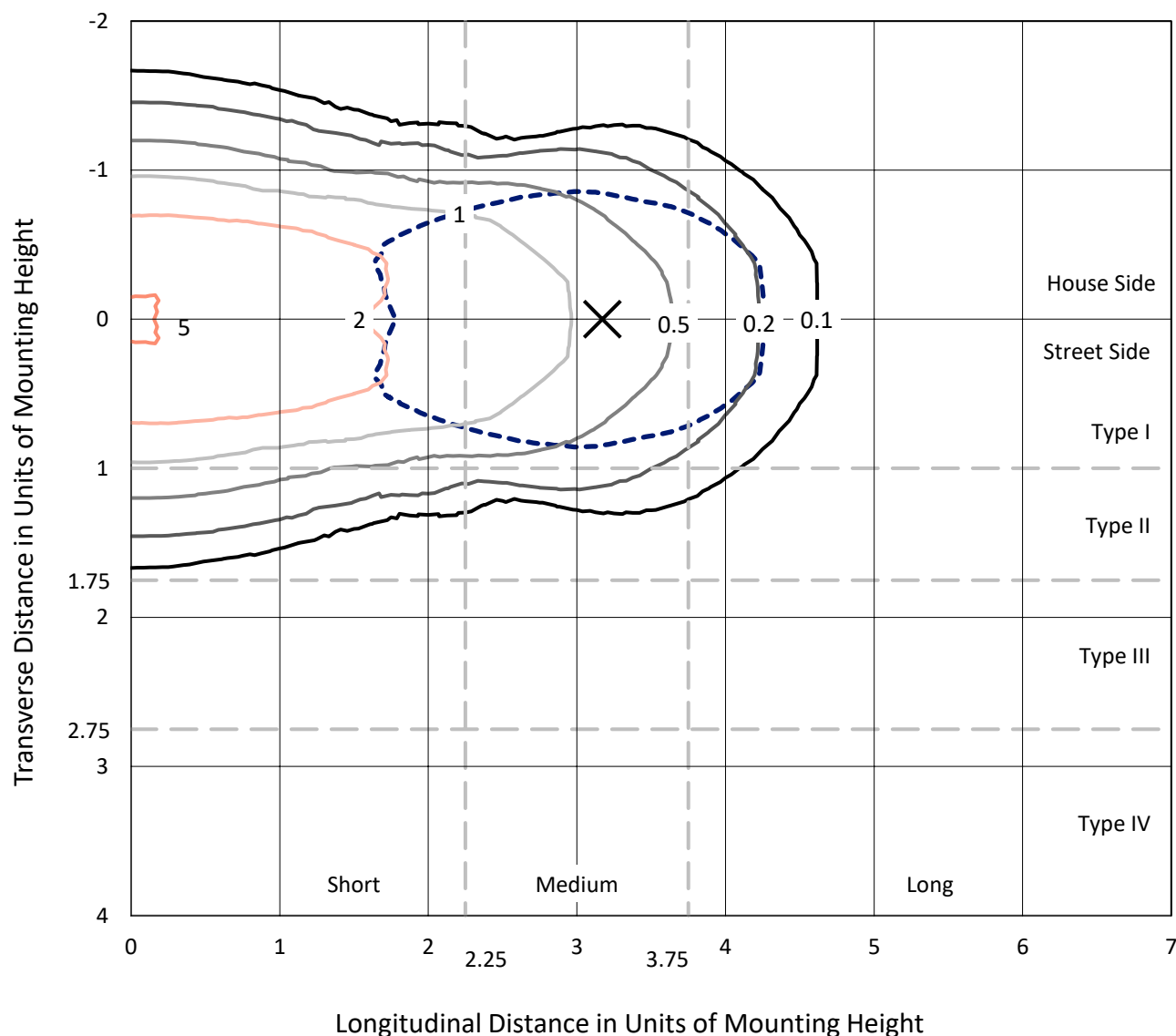
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

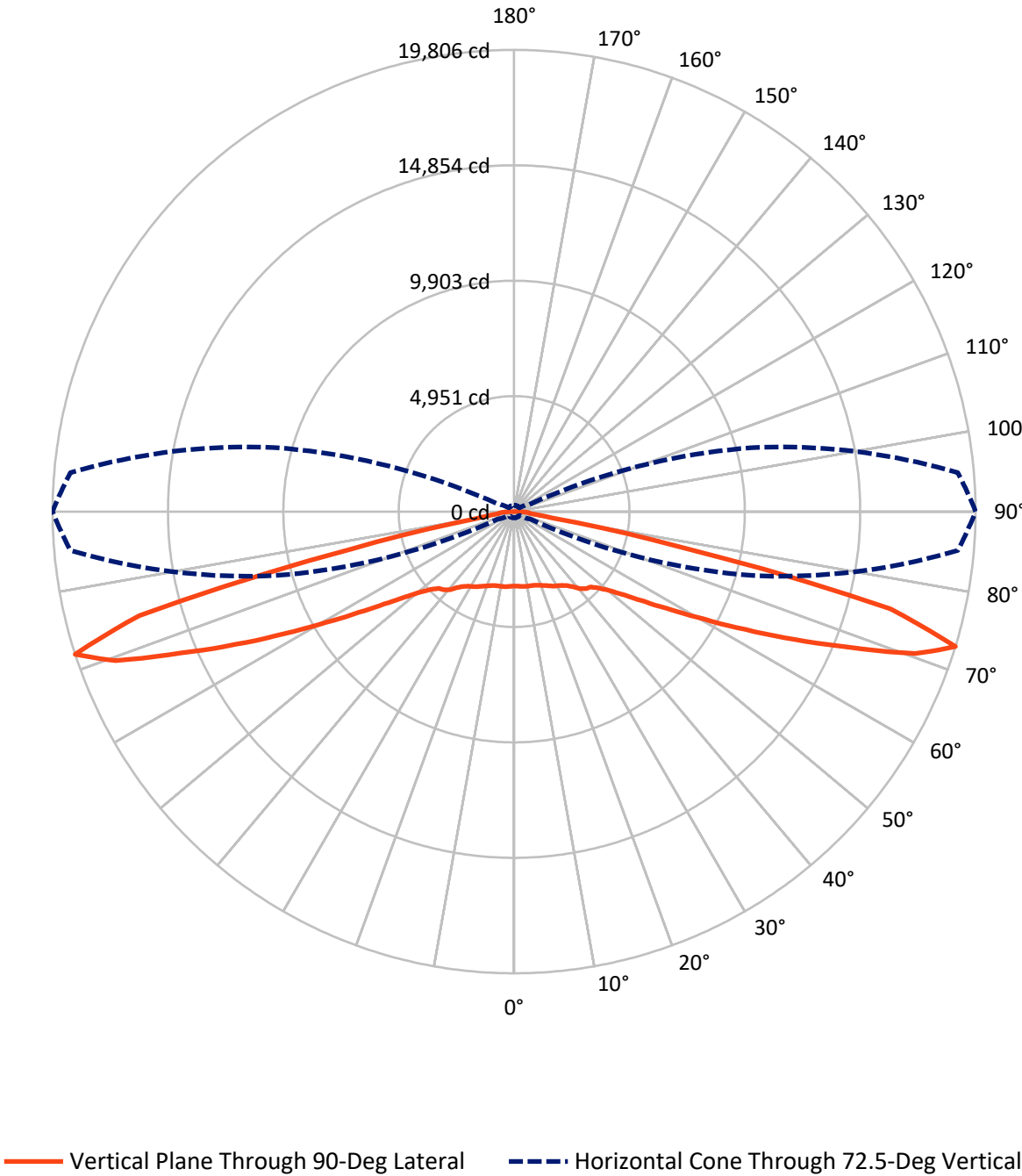


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc

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	8565.9	0.0	8565.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8565.9	0.0	8565.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	17131.8	0.0	17131.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	1.8
10°-20°	949.1	5.5
20°-30°	1582.5	9.2
30°-40°	2176.4	12.7
40°-50°	2658.0	15.5
50°-60°	3074.3	17.9
60°-70°	3665.6	21.4
70°-80°	2558.3	14.9
80°-90°	157.1	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°	17131.8	100.0
0°-180°	17131.8	100.0

Coefficient of Utilization



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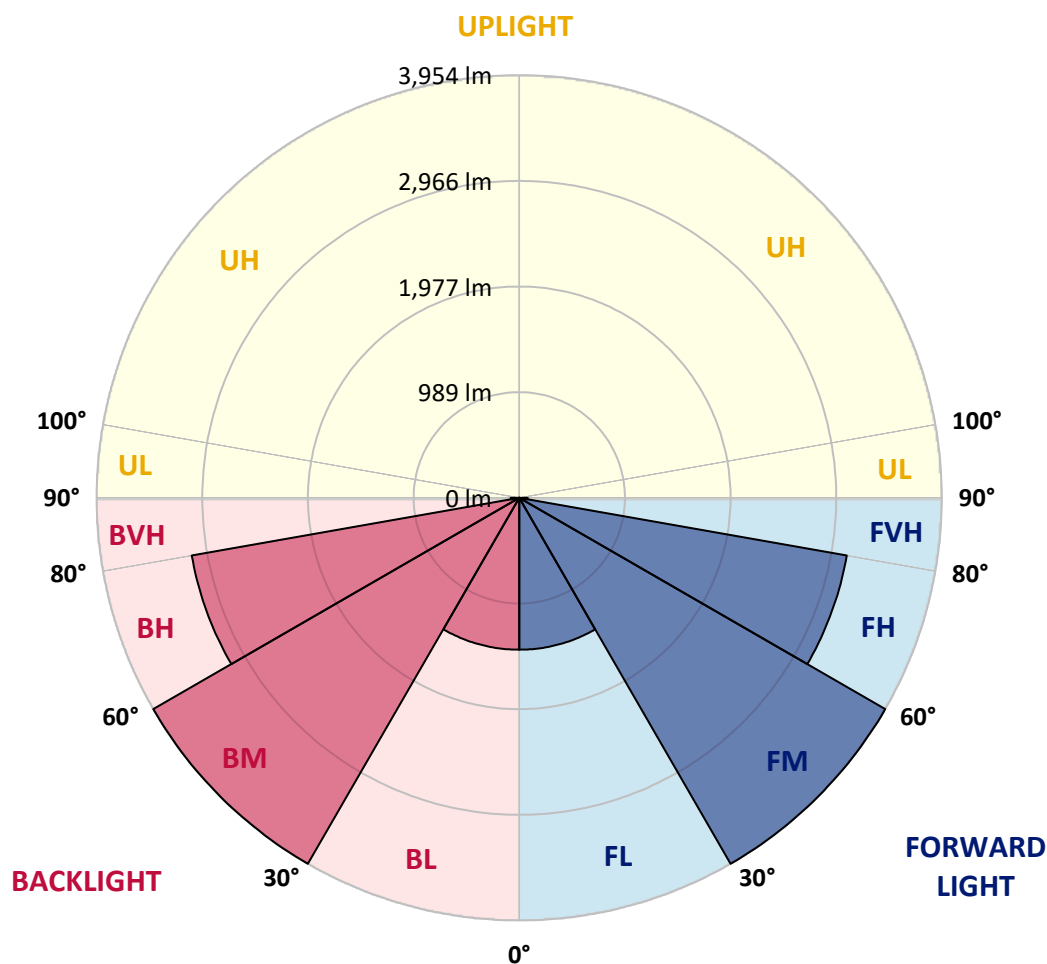
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1421.0	8.3			
FM	(30°-60°)	3954.4	23.1			
FH	(60°-80°)	3112.0	18.2			G2/5000
FVH	(80°-90°)	78.6	0.5			G1/100
BL	(0°-30°)	1421.0	8.3	B3/2500		
BM	(30°-60°)	3954.4	23.1	B3/5000		
BH	(60°-80°)	3112.0	18.2	B4/5000		G4/5000
BVH	(80°-90°)	78.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3
2.5°	3204.0	3207.6	3207.6	3204.9	3211.3	3205.8	3205.8	3203.1	3205.8	3203.1	3203.1
5°	3220.3	3225.0	3226.8	3225.9	3234.1	3229.5	3229.5	3225.9	3226.8	3224.0	3224.0
7.5°	3251.3	3257.8	3261.3	3266.0	3277.7	3272.3	3268.6	3257.8	3253.1	3245.9	3245.9
10°	3261.3	3268.6	3280.5	3304.2	3331.5	3332.4	3321.4	3294.1	3273.2	3256.8	3254.1
12.5°	3230.4	3240.4	3265.0	3313.2	3374.3	3398.8	3381.6	3336.1	3295.1	3266.0	3261.3
15°	3191.2	3202.2	3239.5	3312.4	3402.5	3459.9	3458.0	3398.0	3332.4	3286.9	3279.6
17.5°	3130.2	3141.2	3194.9	3296.9	3424.3	3519.0	3544.6	3482.6	3390.6	3329.6	3319.7
20°	3020.1	3030.1	3104.7	3247.7	3431.6	3581.9	3648.3	3593.6	3479.0	3396.1	3380.7
22.5°	2877.2	2892.7	2980.0	3163.0	3414.3	3647.4	3766.7	3729.4	3581.9	3467.2	3446.2
25°	2724.1	2740.5	2842.5	3059.2	3369.7	3694.7	3906.9	3883.2	3698.4	3555.4	3526.3
27.5°	2592.1	2609.4	2720.6	2956.3	3300.5	3713.0	4045.3	4057.2	3839.5	3652.9	3621.9
30°	2488.4	2504.8	2623.1	2873.5	3211.3	3694.7	4166.4	4248.3	3983.4	3737.6	3693.0
32.5°	2374.5	2395.5	2520.3	2772.4	3105.6	3651.0	4272.0	4455.0	4150.0	3828.6	3772.1
35°	2230.7	2249.8	2380.9	2634.0	2967.3	3580.9	4360.3	4684.5	4388.5	3967.0	3904.1
37.5°	2055.8	2074.1	2204.3	2461.0	2829.8	3482.6	4427.7	4943.1	4672.6	4166.4	4082.6
40°	1880.2	1897.5	2019.5	2268.0	2665.0	3357.0	4451.4	5196.1	4998.5	4440.4	4351.2
42.5°	1719.0	1734.5	1846.4	2077.8	2480.2	3196.7	4420.4	5416.5	5290.8	4631.7	4516.9
45°	1570.6	1584.2	1683.5	1899.2	2288.0	3001.9	4327.5	5653.2	5638.6	4768.2	4613.4
47.5°	1401.3	1414.9	1517.8	1726.3	2095.9	2773.3	4170.0	5886.3	6122.1	5077.7	4899.3
50°	1194.5	1206.4	1312.0	1526.8	1896.6	2530.2	3951.5	6069.3	6732.1	5546.7	5322.7
52.5°	949.7	962.4	1065.3	1280.1	1659.8	2268.9	3663.8	6188.5	7436.9	6231.4	5955.5
55°	706.5	715.7	804.8	997.9	1366.6	1971.2	3303.3	6222.3	8236.3	7167.3	6822.3
57.5°	512.6	518.0	575.4	719.2	1036.2	1598.8	2865.3	6134.8	9187.7	8367.4	7933.1
60°	415.2	417.0	434.3	498.0	720.2	1178.1	2336.3	5834.4	10220.2	9914.3	9367.1
62.5°	376.9	376.9	381.5	398.8	487.1	777.6	1696.3	5211.6	11327.4	11869.1	11136.1
65°	350.5	350.5	352.4	360.6	384.3	495.3	1070.7	4197.4	12260.6	14158.9	13232.1
67.5°	326.9	327.8	326.9	329.6	343.3	366.0	620.9	2899.0	12763.2	16531.7	15531.1
70°	302.3	304.1	299.5	299.5	310.5	311.4	388.8	1589.7	12346.2	18520.2	18257.1
72.5°	273.2	275.8	268.5	266.8	275.0	271.3	292.2	763.0	10599.8	19113.8	19805.8
75°	247.6	251.3	234.9	230.3	230.3	227.7	237.6	391.5	6879.6	15592.1	16677.4
77.5°	224.9	232.2	205.8	191.2	187.6	179.4	193.9	239.4	3009.2	7320.3	7168.2
80°	185.7	195.8	169.3	152.0	145.7	136.5	152.9	167.5	895.0	1699.9	1627.9
82.5°	138.4	143.0	120.2	108.3	102.9	96.6	114.7	116.5	291.3	601.9	680.1
85°	88.4	90.1	73.8	63.8	61.0	58.2	72.9	63.8	111.1	442.5	642.8
87.5°	31.0	35.5	28.2	25.5	27.3	22.8	33.7	19.2	31.0	312.3	386.9
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)