

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: P971417

Luminaire Tested: **NAV-SB6D-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971417
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62572.2 lumens
Efficiency: N/A
Efficacy: 142.2 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



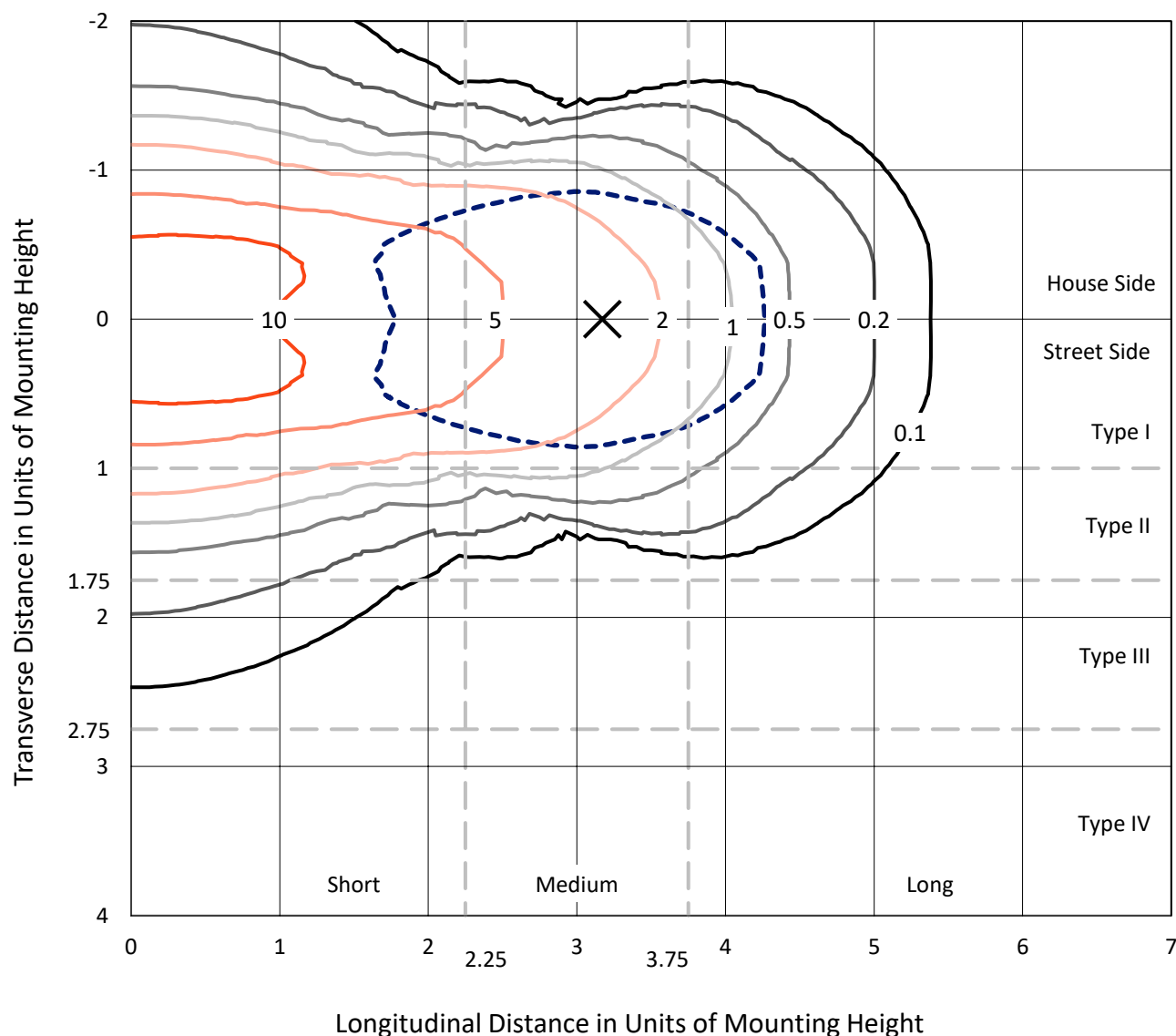
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

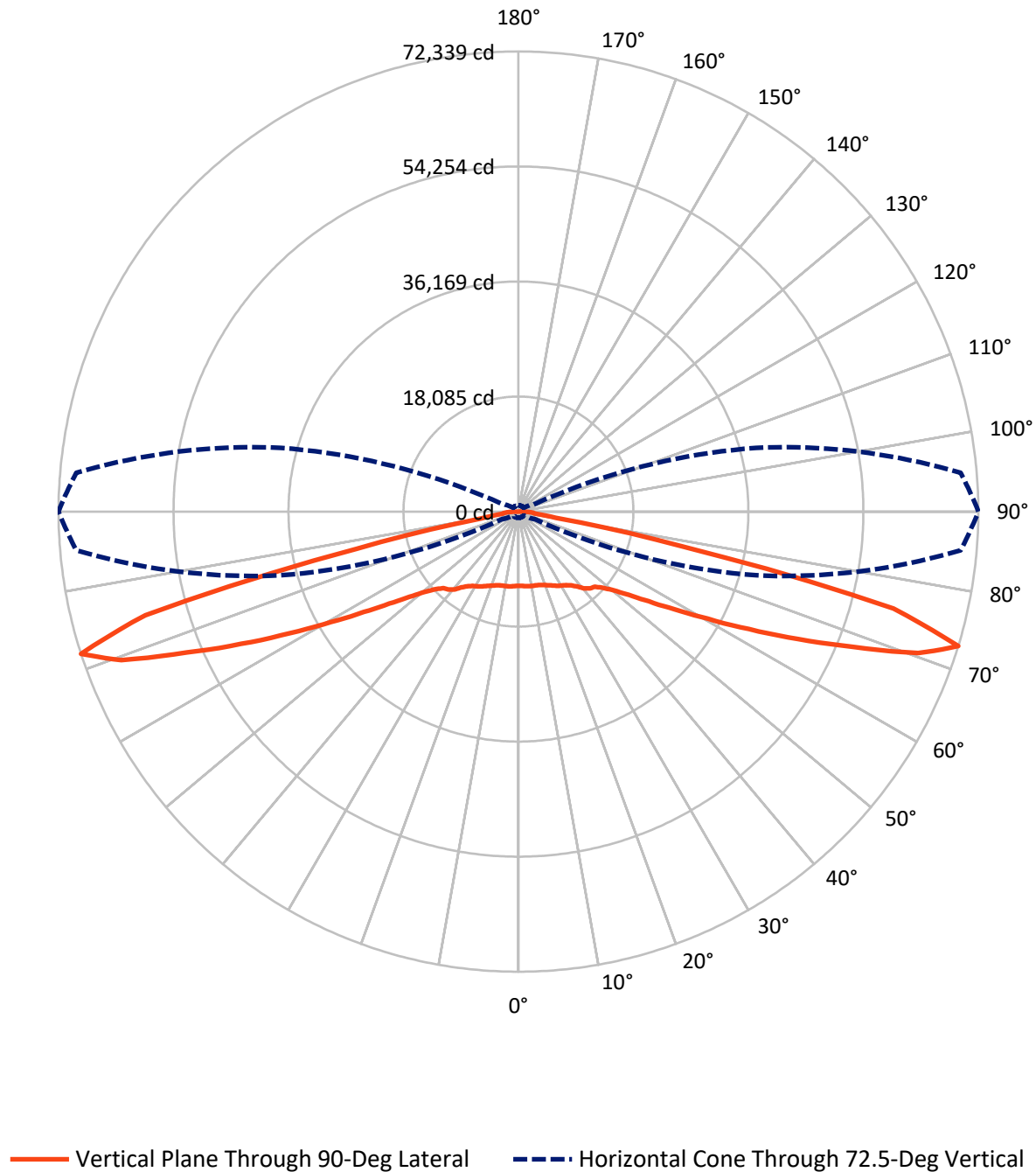


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc

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	31286.1	0.0	31286.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31286.1	0.0	31286.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	62572.2	0.0	62572.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.7	1.8
10°-20°	3466.4	5.5
20°-30°	5780.0	9.2
30°-40°	7949.2	12.7
40°-50°	9708.2	15.5
50°-60°	11228.5	17.9
60°-70°	13388.2	21.4
70°-80°	9344.1	14.9
80°-90°	573.9	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°	62572.2	100.0
0°-180°	62572.2	100.0

Coefficient of Utilization



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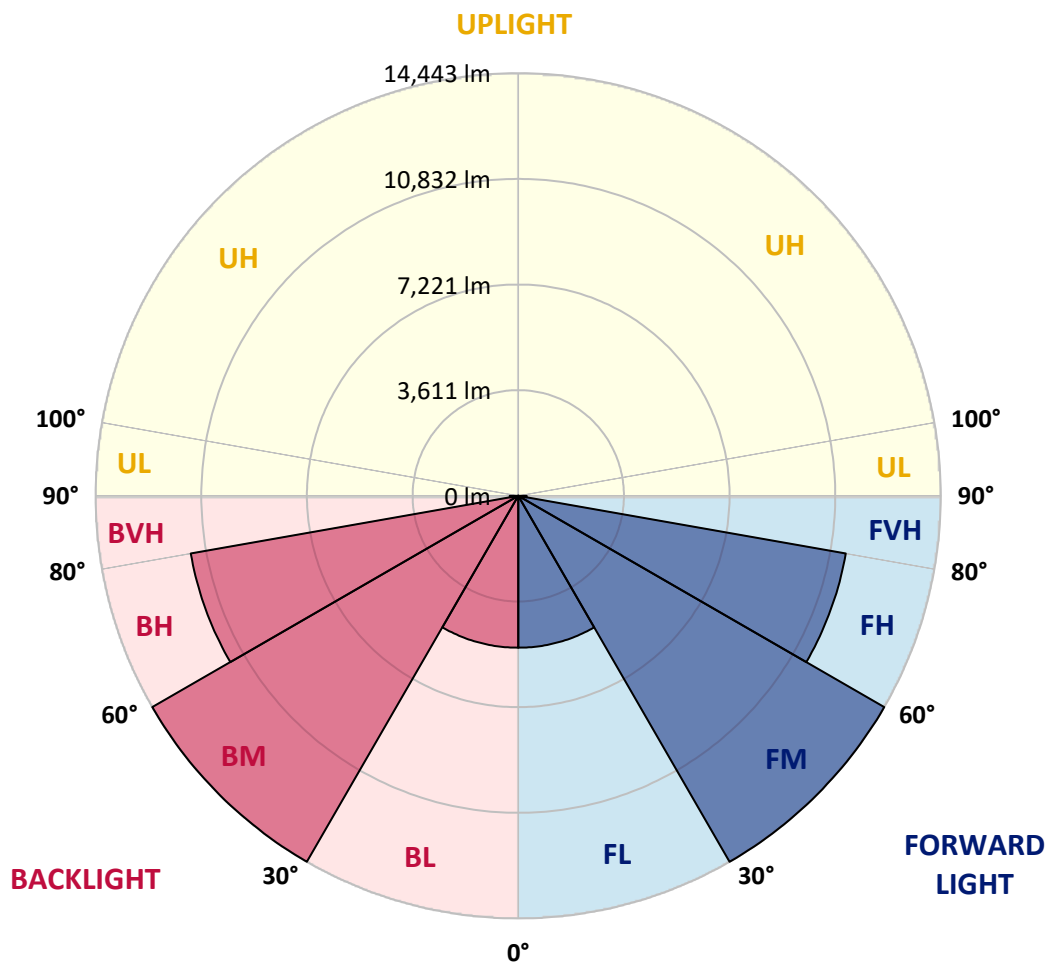
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5190.0	8.3			
FM	(30°-60°)	14443.0	23.1			
FH	(60°-80°)	11366.1	18.2			G4/12000
FVH	(80°-90°)	287.0	0.5			G3/500
BL	(0°-30°)	5190.0	8.3	B5		
BM	(30°-60°)	14443.0	23.1	B5		
BH	(60°-80°)	11366.1	18.2	B5		G5
BVH	(80°-90°)	287.0	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°	11692.3	11692.3	11692.3	11692.3	11692.3	11692.3	11692.3	11692.3	11692.3	11692.3	11692.3
2.5°	11702.2	11715.5	11715.5	11705.6	11728.9	11708.9	11708.9	11698.9	11708.9	11698.9	11698.9
5°	11762.1	11778.7	11785.3	11782.1	11812.0	11795.4	11795.4	11782.1	11785.3	11775.4	11775.4
7.5°	11875.1	11898.4	11911.7	11928.3	11971.6	11951.6	11938.4	11898.4	11881.8	11855.3	11855.3
10°	11911.7	11938.4	11981.5	12068.0	12167.8	12171.2	12131.2	12031.4	11955.0	11895.1	11885.2
12.5°	11798.7	11835.3	11925.1	12101.3	12324.1	12413.9	12350.7	12184.5	12034.8	11928.3	11911.7
15°	11655.7	11695.6	11832.0	12098.0	12427.2	12636.7	12630.0	12410.6	12171.2	12004.9	11978.3
17.5°	11432.8	11472.8	11669.0	12041.4	12507.0	12852.9	12946.0	12719.8	12383.9	12161.1	12124.6
20°	11030.5	11067.1	11339.8	11861.9	12533.6	13082.3	13325.1	13125.5	12706.5	12403.9	12347.4
22.5°	10508.4	10565.0	10884.2	11552.6	12470.5	13321.7	13757.3	13621.0	13082.3	12663.3	12586.8
25°	9949.8	10009.6	10382.0	11173.5	12307.5	13494.6	14269.5	14183.0	13508.0	12985.8	12879.4
27.5°	9467.5	9530.8	9936.5	10797.8	12054.7	13561.2	14775.0	14818.2	14023.4	13341.7	13228.6
30°	9088.5	9148.3	9580.6	10495.1	11728.9	13494.6	15217.3	15516.6	14548.8	13651.0	13488.0
32.5°	8672.7	8749.3	9204.8	10126.0	11343.1	13335.0	15603.0	16271.4	15157.4	13983.5	13777.3
35°	8147.3	8217.2	8696.0	9620.5	10837.6	13079.0	15925.5	17109.4	16028.6	14489.0	14259.5
37.5°	7508.8	7575.4	8050.9	8988.6	10335.5	12719.8	16171.6	18053.8	17066.1	15217.3	14911.3
40°	6867.1	6930.2	7375.8	8283.6	9733.6	12260.9	16258.1	18978.3	18256.7	16218.2	15892.3
42.5°	6278.4	6335.0	6744.0	7588.7	9058.5	11675.7	16145.1	19783.1	19324.1	16916.5	16497.6
45°	5736.4	5786.2	6148.8	6936.9	8356.8	10964.0	15805.8	20647.7	20594.5	17415.4	16850.1
47.5°	5117.8	5167.7	5543.5	6305.1	7655.2	10129.4	15230.6	21499.0	22360.3	18546.0	17894.2
50°	4363.0	4406.2	4792.0	5576.8	6927.0	9241.4	14432.4	22167.5	24588.3	20258.6	19440.6
52.5°	3468.4	3515.0	3890.8	4675.5	6062.3	8287.0	13381.6	22603.1	27162.2	22759.3	21751.7
55°	2580.5	2613.8	2939.7	3644.7	4991.5	7199.6	12064.8	22726.1	30082.0	26177.9	24917.5
57.5°	1872.3	1892.2	2101.7	2627.1	3784.4	5839.5	10465.1	22406.8	33557.1	30560.9	28974.6
60°	1516.4	1523.0	1586.2	1819.1	2630.5	4303.2	8533.1	21309.4	37328.1	36210.8	34212.1
62.5°	1376.8	1376.8	1393.4	1456.5	1779.1	2840.0	6195.3	19034.9	41371.9	43350.5	40673.5
65°	1280.3	1280.3	1287.0	1316.9	1403.3	1809.0	3910.7	15330.3	44780.4	51714.0	48328.7
67.5°	1193.8	1197.2	1193.8	1203.9	1253.7	1336.8	2267.9	10588.2	46616.1	60380.1	56725.4
70°	1104.0	1110.7	1094.1	1094.1	1134.0	1137.3	1419.9	5806.2	45093.0	67642.9	66681.8
72.5°	997.6	1007.6	981.0	974.4	1004.3	991.0	1067.4	2786.8	38714.9	69811.1	72338.5
75°	904.6	917.8	857.9	841.3	841.3	831.4	868.0	1430.0	25127.1	56948.3	60912.2
77.5°	821.4	848.0	751.5	698.3	685.0	655.1	708.3	874.6	10990.6	26736.6	26181.3
80°	678.3	714.9	618.5	555.3	532.1	498.9	558.6	611.9	3268.9	6208.6	5945.9
82.5°	505.4	522.1	439.0	395.8	375.8	352.5	419.0	425.7	1064.2	2198.1	2484.1
85°	322.6	329.2	269.4	232.8	222.8	212.8	266.0	232.8	405.7	1616.1	2347.8
87.5°	113.1	129.7	103.1	93.1	99.7	83.1	123.0	69.8	113.1	1140.6	1413.3
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)