

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: P971437

Luminaire Tested: **NAV-SB6D-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68908.7 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

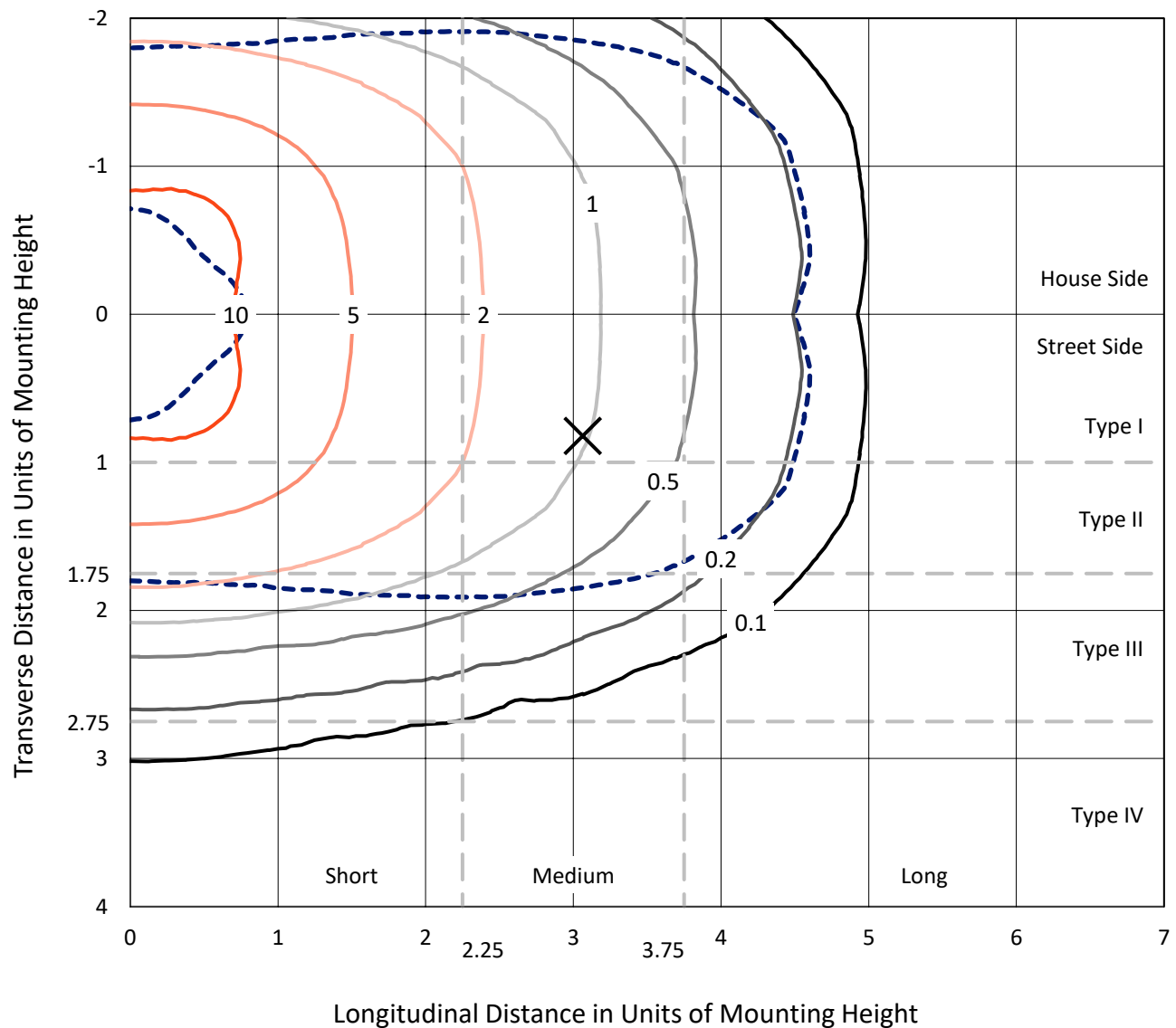


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

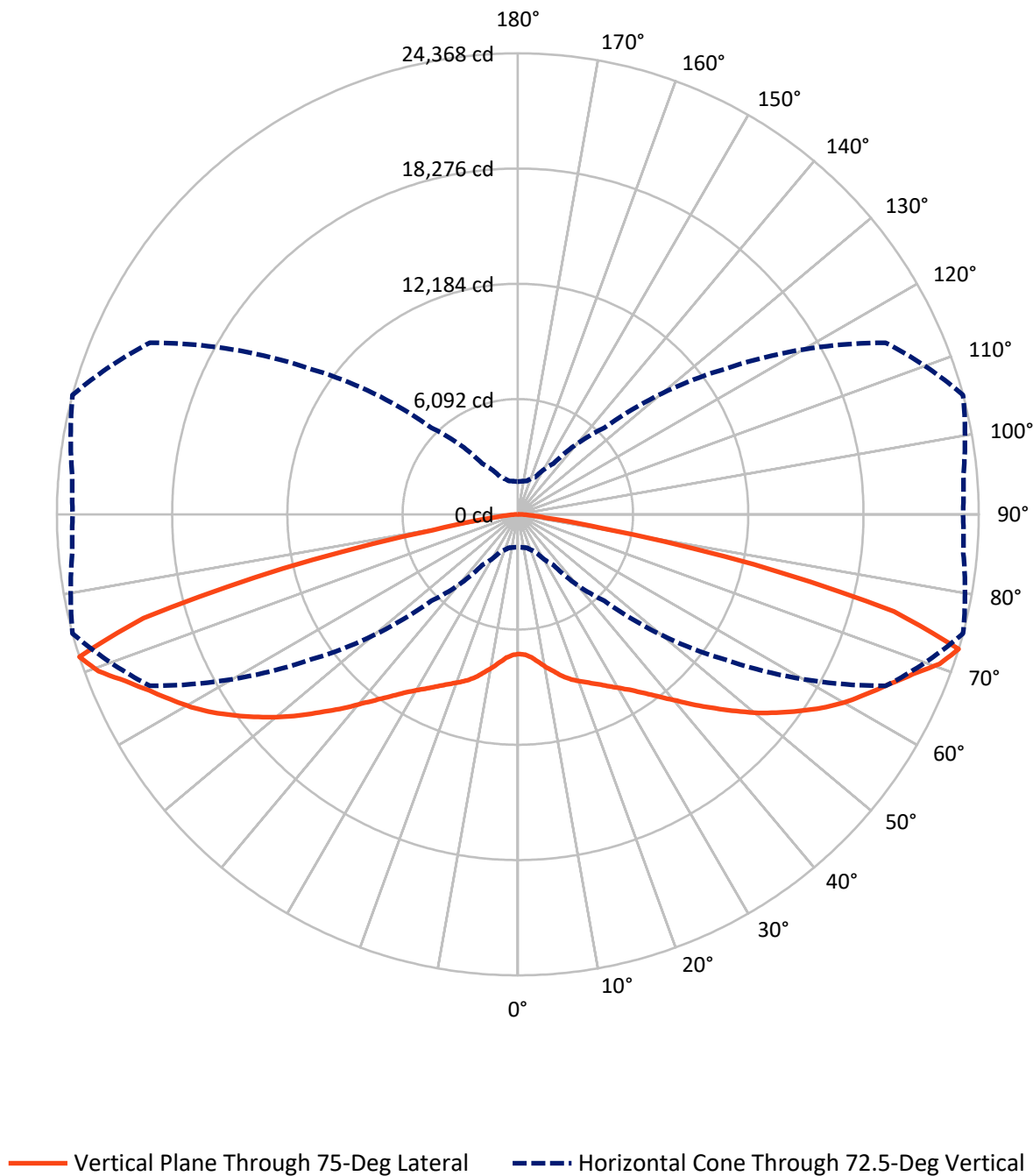


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34454.3	0.0	34454.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34454.3	0.0	34454.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	68908.7	0.0	68908.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.1	1.0
10°-20°	2384.8	3.5
20°-30°	4608.2	6.7
30°-40°	7781.2	11.3
40°-50°	12340.1	17.9
50°-60°	16521.9	24.0
60°-70°	15723.6	22.8
70°-80°	8204.8	11.9
80°-90°	621.1	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°	68908.7	100.0
0°-180°	68908.7	100.0

Coefficient of Utilization



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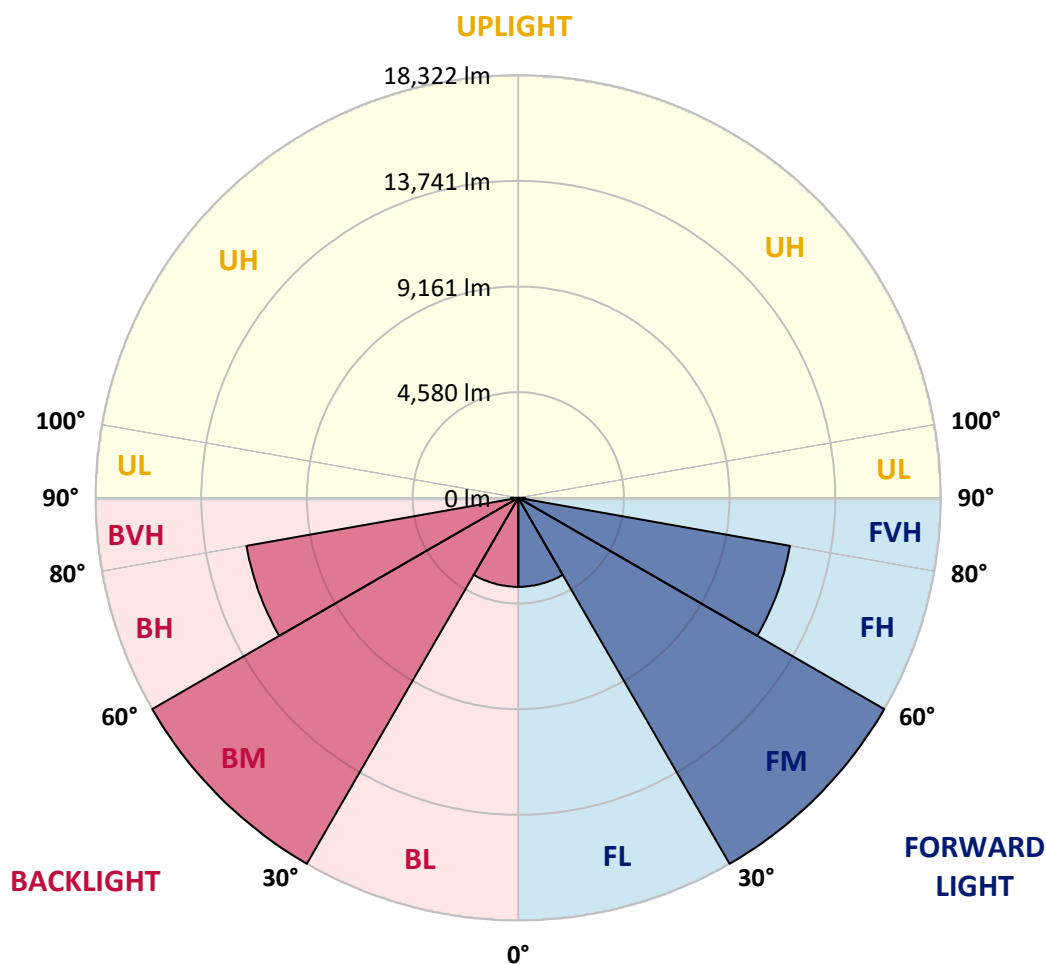
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3858.0	5.6			
FM	(30°-60°)	18321.6	26.6			
FH	(60°-80°)	11964.2	17.4			G4/12000
FVH	(80°-90°)	310.5	0.5			G3/500
BL	(0°-30°)	3858.0	5.6	B4/5000		
BM	(30°-60°)	18321.6	26.6	B5		
BH	(60°-80°)	11964.2	17.4	B5		G5
BVH	(80°-90°)	310.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7381.3	7381.3	7381.3	7381.3	7381.3	7381.3	7381.3	7381.3	7381.3	7381.3	7381.3
2.5°	7381.3	7374.4	7381.3	7388.4	7384.9	7384.9	7402.4	7413.0	7434.1	7430.6	7427.0
5°	7332.1	7328.5	7356.7	7388.4	7413.0	7455.2	7508.0	7546.7	7596.0	7606.5	7606.5
7.5°	7307.4	7296.9	7346.2	7402.4	7479.8	7585.4	7687.4	7793.0	7877.4	7905.6	7912.6
10°	7325.1	7328.5	7395.5	7500.9	7624.2	7771.9	7916.2	8095.6	8215.2	8243.4	8271.4
12.5°	7405.9	7399.0	7511.5	7680.4	7849.2	8035.8	8204.6	8401.6	8531.8	8598.7	8626.8
15°	7553.7	7539.7	7698.0	7947.7	8194.1	8412.2	8549.4	8735.9	8887.2	8971.6	9003.3
17.5°	7729.6	7736.7	7944.3	8268.0	8591.7	8838.0	8968.1	9063.0	9179.2	9253.1	9288.2
20°	8039.3	8053.3	8285.6	8669.0	9038.4	9319.9	9425.5	9390.3	9422.0	9478.3	9520.5
22.5°	8454.4	8461.5	8721.8	9137.0	9524.0	9833.6	9904.0	9759.7	9671.8	9710.4	9738.6
25°	8936.5	8982.2	9242.5	9668.2	10065.8	10361.3	10393.0	10174.9	9956.7	9967.3	9984.9
27.5°	9524.0	9566.2	9830.1	10252.3	10656.9	10913.7	10910.2	10618.2	10298.0	10217.1	10241.7
30°	10160.8	10206.5	10477.4	10913.7	11290.2	11515.4	11466.1	11117.8	10660.4	10509.1	10526.7
32.5°	10917.3	10945.4	11219.8	11656.1	12004.4	12183.8	12081.8	11652.5	11082.6	10910.2	10952.4
35°	11832.0	11874.2	12078.3	12489.9	12796.0	12943.8	12771.4	12264.7	11624.4	11430.9	11459.1
37.5°	12876.9	12848.8	13080.9	13446.9	13700.2	13791.7	13555.9	12954.4	12243.6	12014.9	12057.2
40°	13967.6	13953.5	14206.8	14558.7	14695.8	14752.1	14403.8	13746.0	12957.8	12711.5	12792.5
42.5°	14956.2	14945.6	15287.0	15677.5	15842.8	15779.5	15339.7	14586.8	13784.6	13503.1	13573.6
45°	15747.8	15733.7	16152.5	16701.2	17024.9	16919.4	16328.4	15515.6	14621.9	14330.0	14396.8
47.5°	16356.5	16363.5	16813.9	17492.9	18059.4	18098.0	17338.1	16462.0	15543.8	15213.0	15311.6
50°	16796.3	16817.4	17299.4	18052.3	18826.3	19167.6	18368.9	17433.1	16497.3	16124.3	16236.8
52.5°	16905.3	16944.1	17524.5	18407.7	19318.9	19969.8	19417.4	18365.4	17401.4	17046.1	17137.6
55°	16324.9	16402.3	17137.6	18379.5	19621.5	20497.5	20339.2	19311.8	18312.6	17946.7	18048.8
57.5°	14991.4	15100.5	15958.9	17580.9	19554.6	20859.9	21053.4	20219.6	19223.9	18872.1	18953.0
60°	13123.2	13253.4	14076.6	15846.3	18611.7	20993.5	21556.5	21102.7	20061.2	19720.0	19793.9
62.5°	10305.0	10474.0	11459.1	13534.8	16620.4	20370.8	21985.7	21901.3	20814.2	20388.5	20437.7
65°	6610.8	6790.3	7828.1	10280.4	13964.1	18463.9	22119.4	22678.8	21609.3	21014.7	21088.6
67.5°	3986.2	4067.1	4580.8	6230.9	10206.5	15589.5	20986.6	23540.9	22538.1	21799.3	21855.6
70°	2550.7	2596.5	2902.6	3659.0	5770.0	11374.6	18179.0	23702.7	23664.0	22604.9	22598.0
72.5°	1731.0	1745.1	1826.0	2167.3	3264.9	6463.0	13408.1	21458.0	24367.6	23642.9	23530.3
75°	1266.6	1344.0	1474.2	1534.0	1854.1	3229.8	7683.9	15075.8	20536.2	20852.9	20085.9
77.5°	942.9	946.4	1125.9	1196.2	1322.9	1720.5	3250.9	8415.8	12750.3	13387.0	11941.0
80°	798.7	756.4	752.9	964.0	995.7	1073.1	1453.0	2906.1	4566.7	2768.9	2093.4
82.5°	664.9	619.2	559.4	752.9	679.1	657.9	629.8	1182.1	1453.0	714.2	608.6
85°	464.4	443.3	422.2	492.5	387.0	330.8	302.6	552.4	612.1	302.6	267.4
87.5°	200.6	207.6	211.0	218.1	161.8	116.1	116.1	154.8	154.8	119.6	87.9
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)