

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: P971434

Luminaire Tested: **NAV-SB6D-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67687.9 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - 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



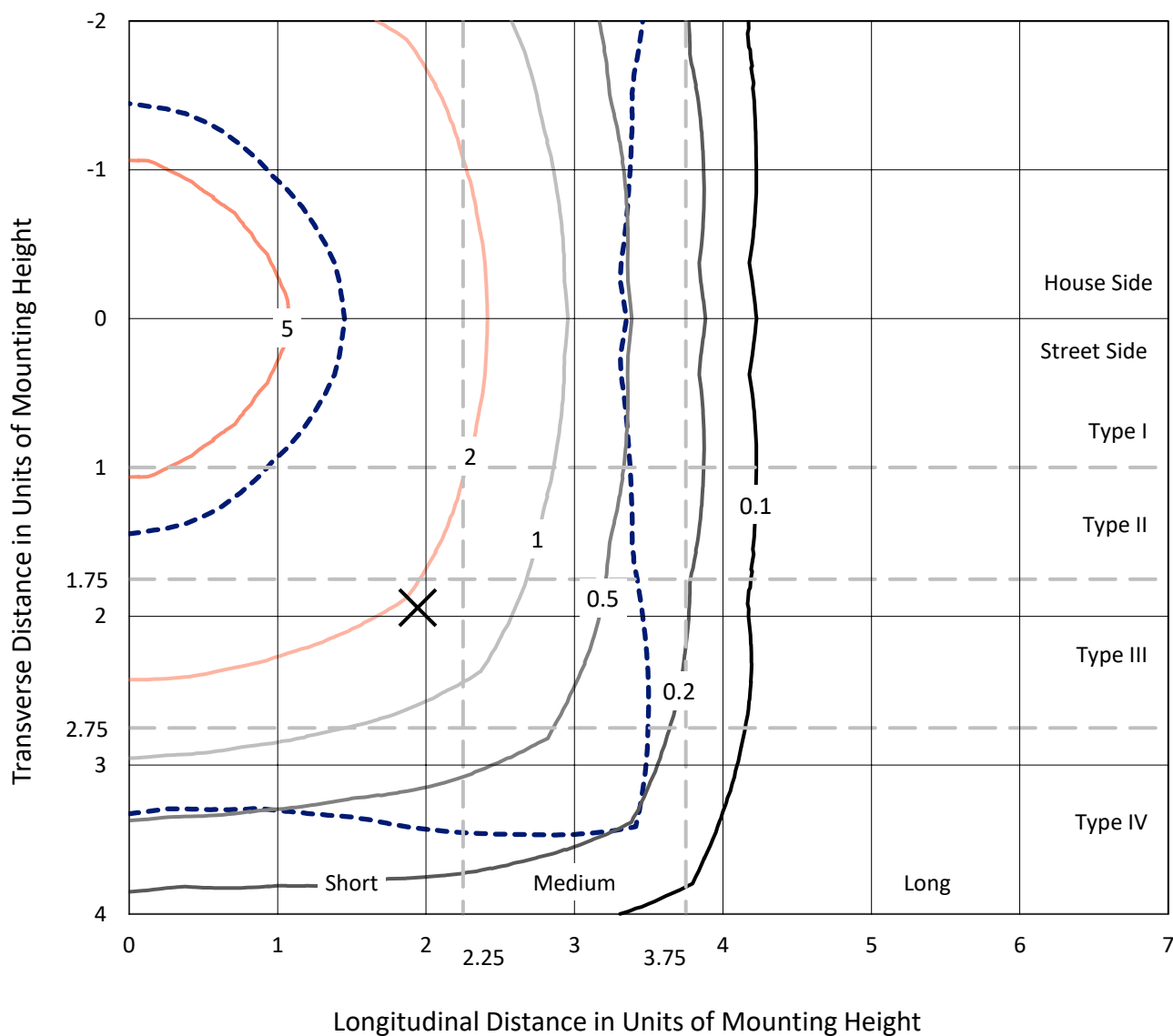
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

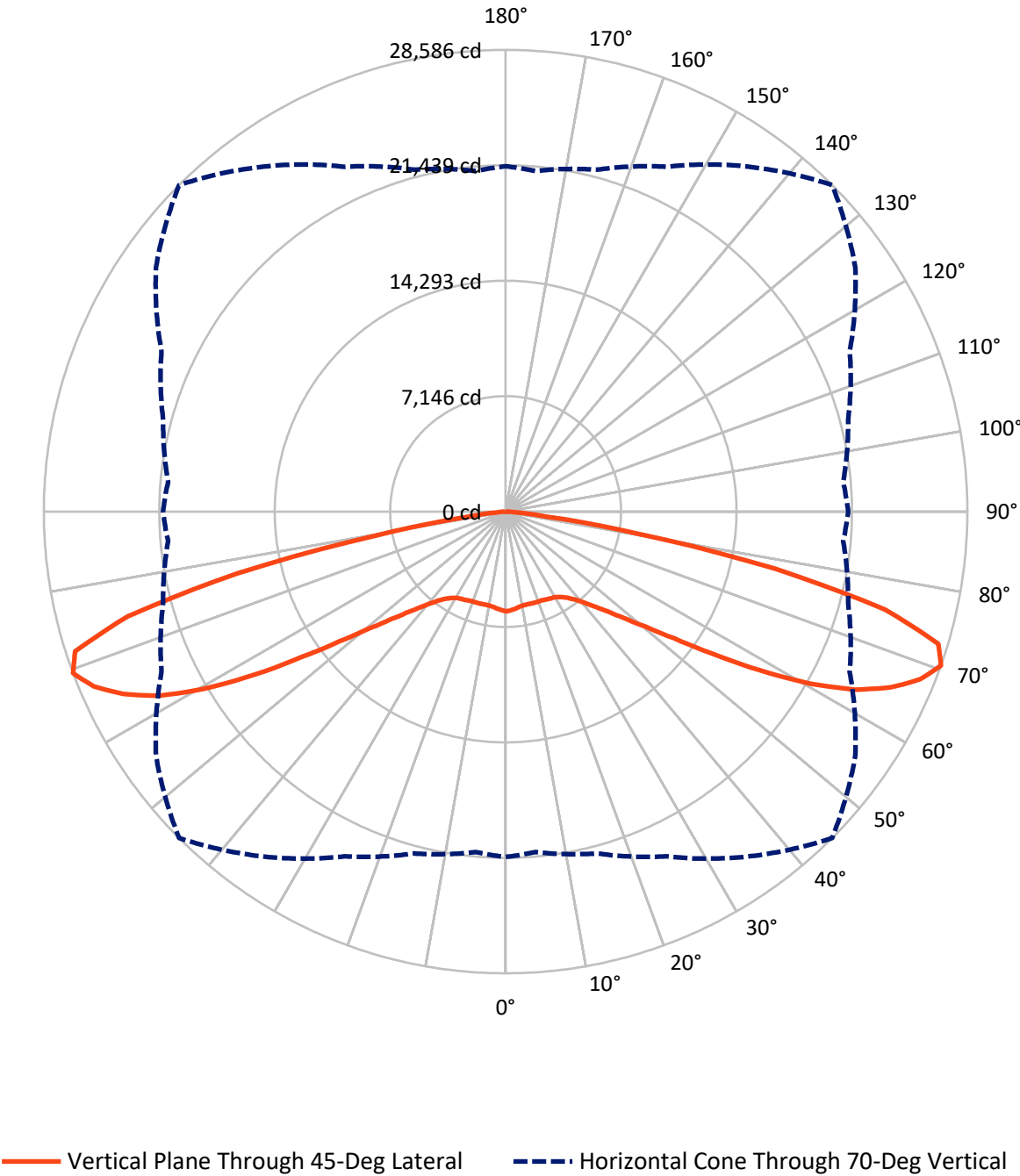


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33843.9	0.0	33843.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33843.9	0.0	33843.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	67687.9	0.0	67687.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	0.8
10°-20°	1686.5	2.5
20°-30°	2806.6	4.1
30°-40°	4244.4	6.3
40°-50°	7053.2	10.4
50°-60°	13309.1	19.7
60°-70°	22473.0	33.2
70°-80°	14767.1	21.8
80°-90°	773.6	1.1
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°	67687.9	100.0
0°-180°	67687.9	100.0

Coefficient of Utilization



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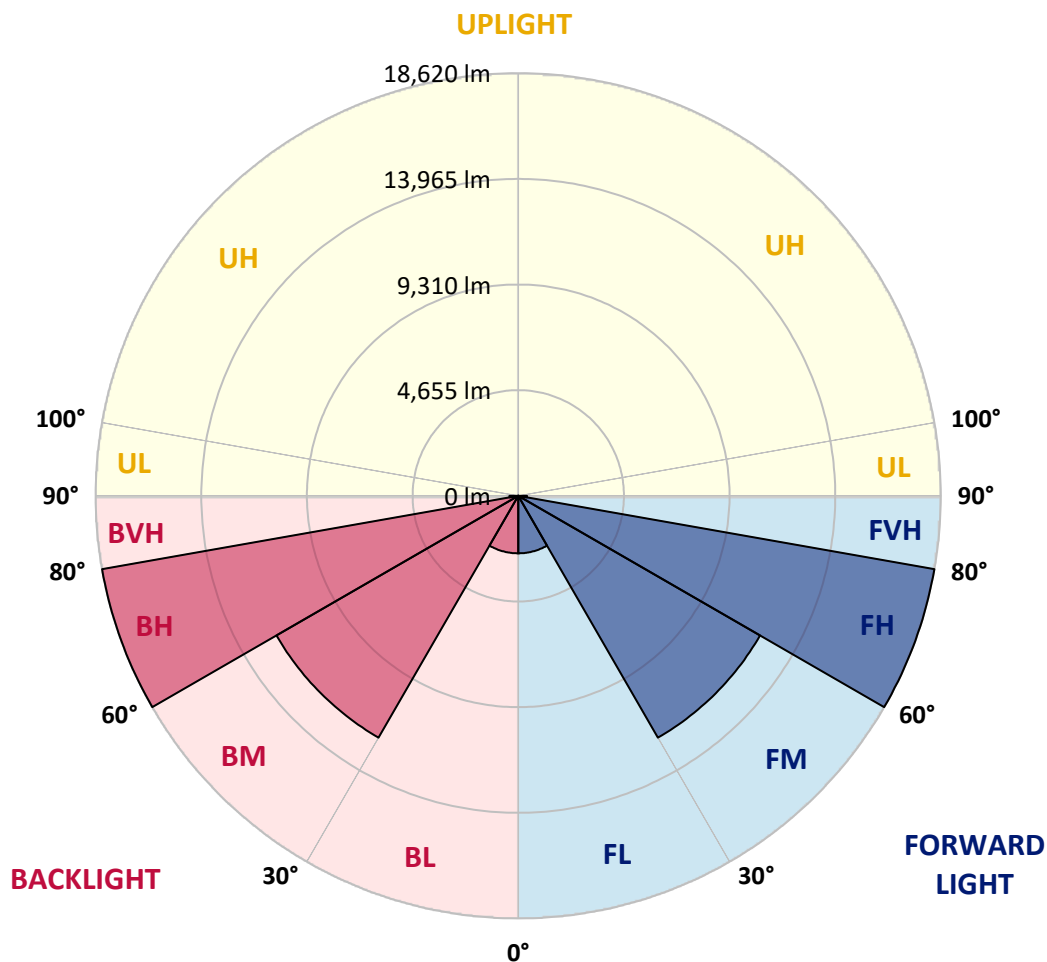
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2533.7	3.7			
FM	(30°-60°)	12303.4	18.2			
FH	(60°-80°)	18620.0	27.5			G5
FVH	(80°-90°)	386.8	0.6			G3/500
BL	(0°-30°)	2533.7	3.7	B4/5000		
BM	(30°-60°)	12303.4	18.2	B5		
BH	(60°-80°)	18620.0	27.5	B5		G5
BVH	(80°-90°)	386.8	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6174.5	6174.5	6174.5	6174.5	6174.5	6174.5	6174.5	6174.5	6174.5	6174.5	6174.5
2.5°	6135.8	6153.4	6146.3	6132.3	6132.3	6121.7	6132.3	6139.3	6149.9	6156.9	6153.4
5°	6054.9	6068.9	6065.4	6054.9	6058.4	6047.8	6054.9	6065.4	6072.5	6076.0	6076.0
7.5°	5984.6	5998.6	5991.5	5974.0	5974.0	5963.4	5966.9	5977.5	5988.0	5991.5	5991.5
10°	5966.9	5981.0	5959.9	5931.8	5921.2	5907.1	5910.7	5921.2	5942.3	5952.9	5952.9
12.5°	5974.0	5984.6	5963.4	5921.2	5910.7	5896.5	5896.5	5907.1	5935.3	5949.3	5952.9
15°	5995.1	6005.6	5974.0	5928.2	5917.6	5907.1	5903.6	5917.6	5949.3	5974.0	5977.5
17.5°	6033.8	6044.3	5995.1	5931.8	5917.6	5921.2	5917.6	5928.2	5977.5	6023.2	6023.2
20°	6068.9	6076.0	6009.2	5931.8	5917.6	5921.2	5917.6	5938.7	6002.1	6065.4	6068.9
22.5°	6079.5	6086.6	6023.2	5956.4	5945.8	5949.3	5945.8	5966.9	6026.7	6090.0	6090.0
25°	6083.1	6093.6	6044.3	5991.5	6009.2	6016.1	6009.2	6012.6	6058.4	6114.7	6111.2
27.5°	6135.8	6149.9	6104.2	6058.4	6068.9	6065.4	6076.0	6086.6	6121.7	6178.0	6163.9
30°	6244.9	6255.4	6216.7	6171.0	6163.9	6139.3	6171.0	6206.2	6244.9	6294.1	6283.6
32.5°	6424.3	6445.4	6396.1	6346.9	6315.2	6301.2	6325.8	6385.5	6438.3	6491.1	6470.0
35°	6723.4	6737.4	6691.7	6600.2	6543.9	6543.9	6565.0	6642.4	6726.9	6793.7	6769.1
37.5°	7145.6	7163.1	7082.2	6973.2	6888.7	6888.7	6916.8	6997.8	7124.5	7219.4	7184.2
40°	7659.2	7683.8	7581.8	7469.2	7388.3	7374.3	7409.4	7500.8	7620.5	7740.1	7701.4
42.5°	8278.4	8306.6	8172.8	8074.3	8011.0	8011.0	8028.6	8113.1	8222.1	8369.8	8359.3
45°	9070.0	9119.2	8936.4	8837.8	8778.0	8792.0	8802.6	8876.5	8975.0	9143.9	9136.8
47.5°	10012.9	10062.1	9868.6	9766.6	9756.1	9822.9	9780.7	9833.4	9886.2	10079.7	10023.5
50°	11082.4	11166.9	11033.2	11026.1	11047.2	11170.3	11071.8	11100.0	11040.2	11163.4	11089.5
52.5°	12391.2	12514.3	12489.7	12532.0	12767.7	13021.0	12795.8	12697.3	12472.1	12510.8	12380.7
55°	13977.9	14164.4	14199.6	14452.9	14987.7	15504.9	15026.4	14628.8	14150.3	14062.4	13925.1
57.5°	15782.8	15930.6	16099.5	16616.6	17615.8	18534.0	17615.8	16736.2	15983.3	15803.9	15677.3
60°	17724.9	17907.8	18069.6	18833.1	20317.8	21608.9	20289.7	18892.9	17897.2	17654.5	17443.4
62.5°	19811.2	20046.9	20159.5	21007.4	22738.4	24279.4	22763.0	21070.7	19966.0	19705.6	19494.6
65°	21813.0	22006.5	22133.2	23037.4	24691.0	26235.5	24803.6	23135.9	21999.5	21658.2	21489.3
67.5°	22745.4	22850.9	23160.5	24184.4	25929.4	27692.0	26224.9	24293.4	23023.3	22425.3	22432.2
70°	21380.3	21165.7	21911.5	23551.0	26077.1	28585.6	26414.9	23501.8	21946.8	20975.7	21208.0
72.5°	16521.7	16152.3	17446.9	20250.9	24388.4	28015.7	24557.3	20409.3	18252.6	16282.4	16771.5
75°	8989.0	8570.4	10357.7	13904.0	19448.8	24282.9	19895.7	14301.6	11532.8	8922.2	9502.8
77.5°	2536.7	2378.3	3820.8	6726.9	11698.1	17049.3	12148.5	6874.7	4531.5	2688.0	2987.0
80°	777.6	752.9	1020.3	2026.5	4967.8	8165.9	4774.2	2051.1	1298.3	819.8	865.5
82.5°	460.8	422.2	506.7	738.8	1266.6	2564.8	1231.3	770.5	619.2	415.1	450.4
85°	263.8	246.3	299.1	358.9	425.7	545.3	355.4	365.9	330.7	221.6	232.2
87.5°	109.1	98.5	116.1	112.5	98.5	126.7	95.0	112.5	133.7	87.9	80.9
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)