

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: P965110

Luminaire Tested: **NAV-SB3D-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965110
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-SB3D-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 33489.8 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 218.1
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



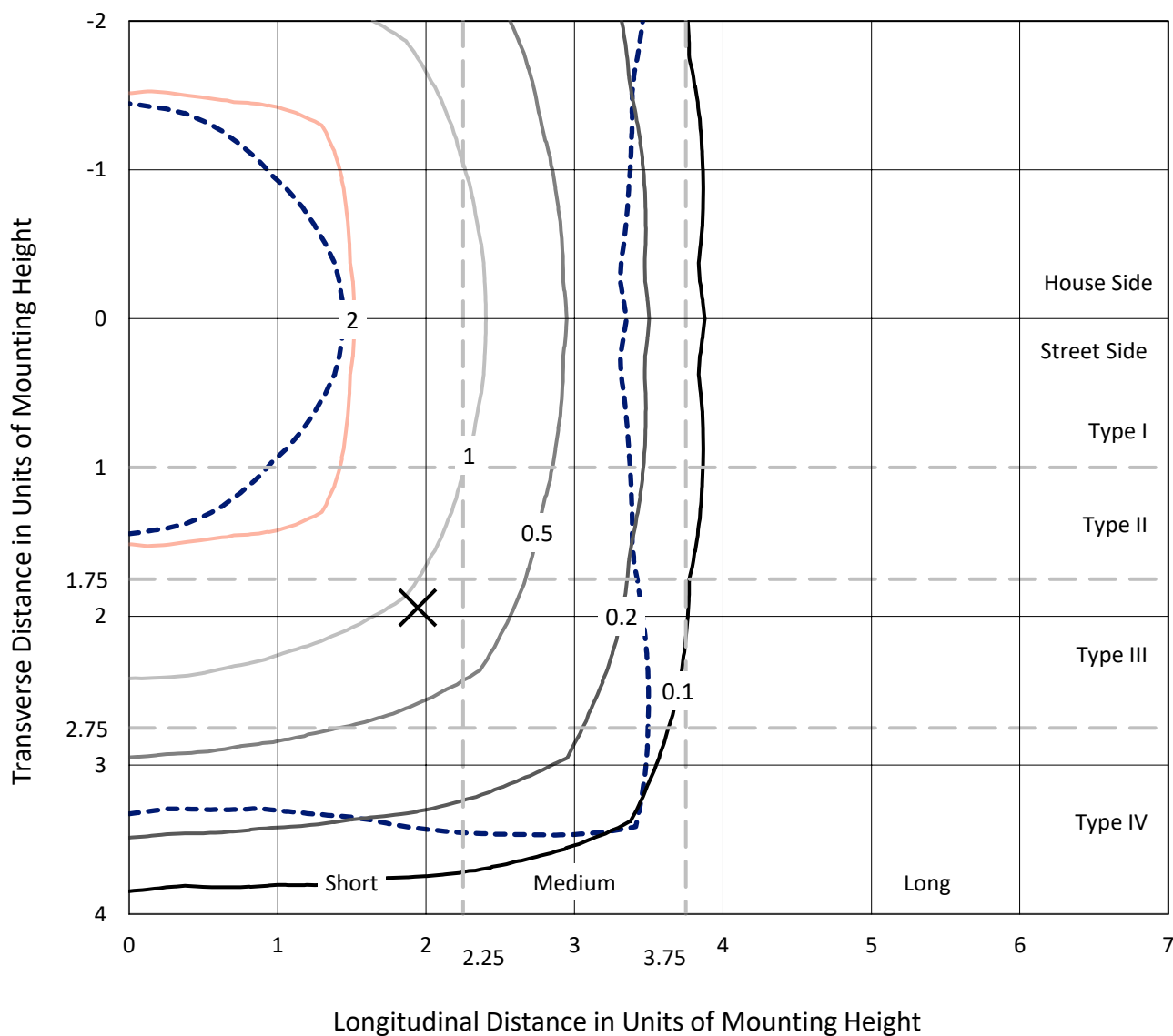
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

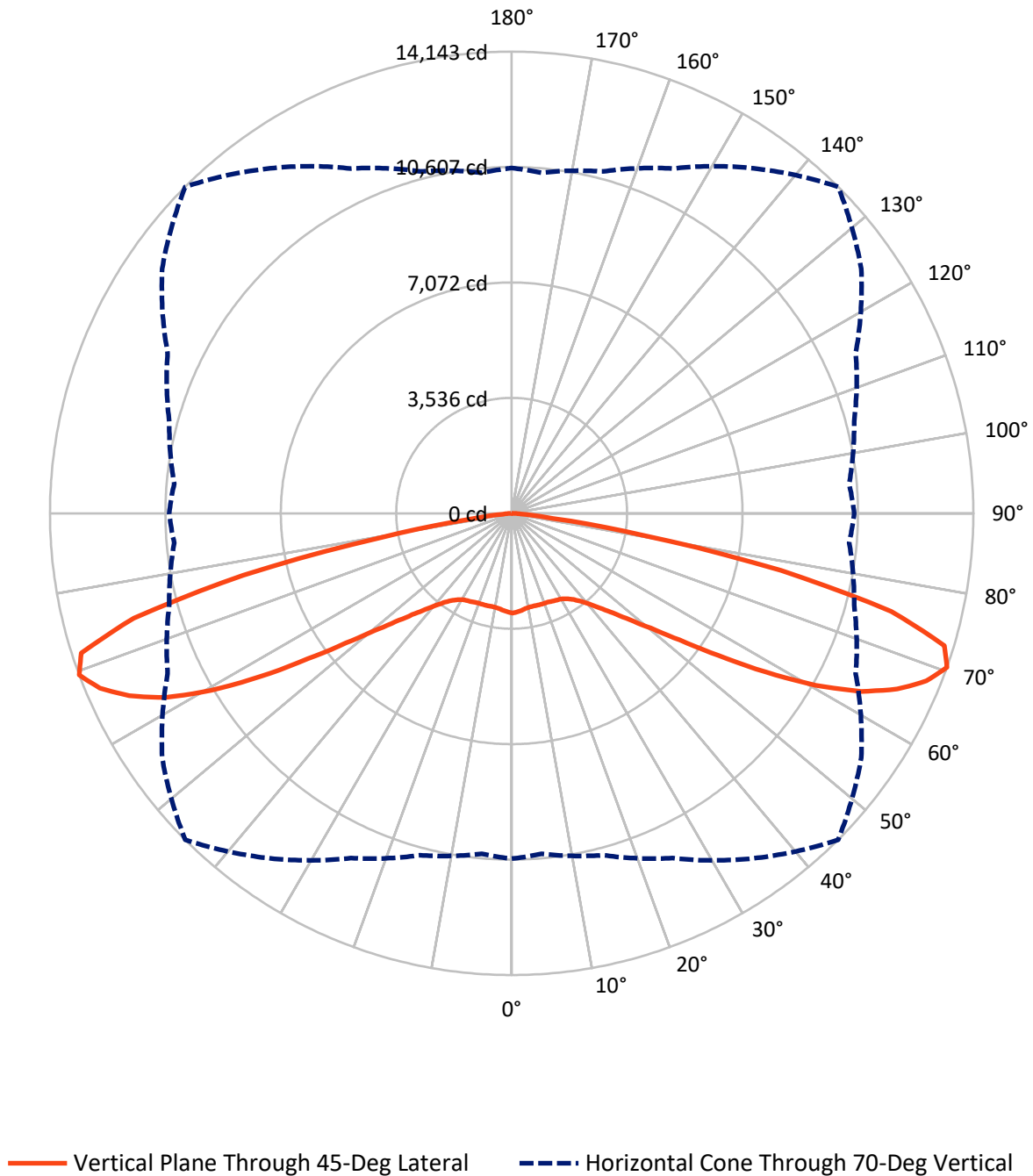


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

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	16744.9	0.0	16744.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16744.9	0.0	16744.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	33489.8	0.0	33489.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.2	0.8
10°-20°	834.4	2.5
20°-30°	1388.6	4.1
30°-40°	2100.0	6.3
40°-50°	3489.7	10.4
50°-60°	6584.9	19.7
60°-70°	11118.9	33.2
70°-80°	7306.3	21.8
80°-90°	382.8	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°	33489.8	100.0
0°-180°	33489.8	100.0

Coefficient of Utilization



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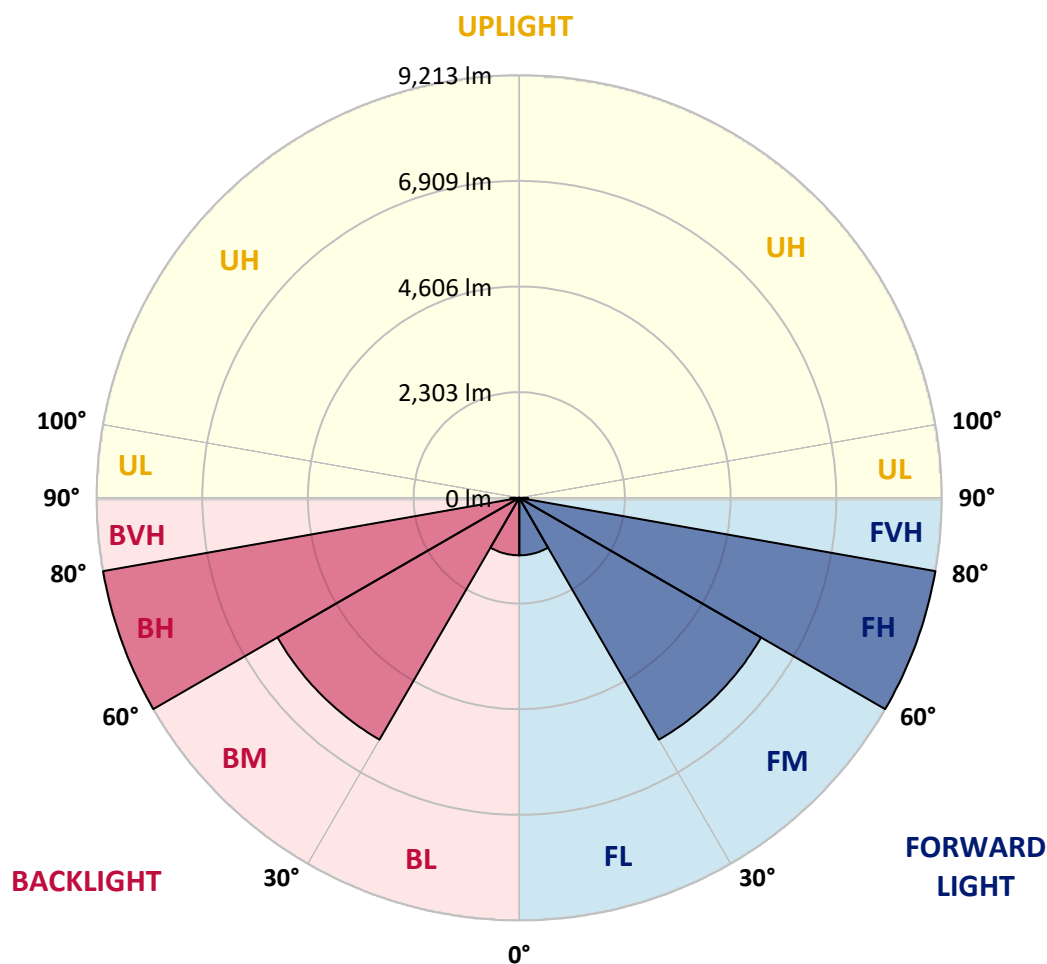
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1253.6	3.7			
FM	(30°-60°)	6087.3	18.2			
FH	(60°-80°)	9212.6	27.5			G4/12000
FVH	(80°-90°)	191.4	0.6			G2/225
BL	(0°-30°)	1253.6	3.7	B3/2500		
BM	(30°-60°)	6087.3	18.2	B4/8500		
BH	(60°-80°)	9212.6	27.5	B5		G4/12000
BVH	(80°-90°)	191.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9
2.5°	3035.8	3044.5	3041.0	3034.1	3034.1	3028.9	3034.1	3037.6	3042.7	3046.2	3044.5
5°	2995.8	3002.7	3001.0	2995.8	2997.5	2992.3	2995.8	3001.0	3004.5	3006.2	3006.2
7.5°	2960.9	2967.9	2964.4	2955.7	2955.7	2950.5	2952.2	2957.4	2962.7	2964.4	2964.4
10°	2952.2	2959.2	2948.7	2934.9	2929.7	2922.7	2924.4	2929.7	2940.1	2945.2	2945.2
12.5°	2955.7	2960.9	2950.5	2929.7	2924.4	2917.5	2917.5	2922.7	2936.6	2943.5	2945.2
15°	2966.1	2971.4	2955.7	2933.1	2927.9	2922.7	2920.9	2927.9	2943.5	2955.7	2957.4
17.5°	2985.3	2990.5	2966.1	2934.9	2927.9	2929.7	2927.9	2933.1	2957.4	2980.1	2980.1
20°	3002.7	3006.2	2973.1	2934.9	2927.9	2929.7	2927.9	2938.4	2969.6	3001.0	3002.7
22.5°	3008.0	3011.4	2980.1	2947.0	2941.7	2943.5	2941.7	2952.2	2981.8	3013.2	3013.2
25°	3009.7	3014.9	2990.5	2964.4	2973.1	2976.6	2973.1	2974.9	2997.5	3025.4	3023.6
27.5°	3035.8	3042.7	3020.2	2997.5	3002.7	3001.0	3006.2	3011.4	3028.9	3056.7	3049.7
30°	3089.8	3095.0	3075.8	3053.2	3049.7	3037.6	3053.2	3070.6	3089.8	3114.2	3108.9
32.5°	3178.5	3189.0	3164.6	3140.2	3124.6	3117.6	3129.8	3159.4	3185.5	3211.6	3201.2
35°	3326.5	3333.5	3310.9	3265.5	3237.8	3237.8	3248.1	3286.5	3328.3	3361.3	3349.1
37.5°	3535.4	3544.0	3504.1	3450.0	3408.3	3408.3	3422.3	3462.2	3525.0	3571.9	3554.5
40°	3789.5	3801.7	3751.2	3695.5	3655.5	3648.5	3665.9	3711.2	3770.4	3829.6	3810.4
42.5°	4095.9	4109.8	4043.6	3994.9	3963.6	3963.6	3972.3	4014.1	4068.0	4141.1	4136.0
45°	4487.6	4511.9	4421.4	4372.6	4343.0	4350.0	4355.2	4391.8	4440.5	4524.1	4520.7
47.5°	4954.0	4978.4	4882.7	4832.3	4827.0	4860.0	4839.1	4865.3	4891.4	4987.1	4959.3
50°	5483.2	5525.1	5458.8	5455.4	5465.8	5526.8	5478.0	5492.0	5462.3	5523.3	5486.7
52.5°	6130.7	6191.7	6179.5	6200.4	6317.1	6442.3	6330.9	6282.2	6170.8	6190.0	6125.6
55°	6915.9	7008.1	7025.6	7150.8	7415.5	7671.3	7434.5	7237.8	7001.2	6957.6	6889.7
57.5°	7808.9	7881.9	7965.5	8221.4	8715.8	9170.1	8715.8	8280.6	7908.1	7819.3	7756.6
60°	8769.7	8860.2	8940.3	9318.1	10052.6	10691.5	10038.6	9347.6	8855.0	8734.8	8630.4
62.5°	9802.0	9918.6	9974.3	10393.8	11250.2	12012.6	11262.4	10425.1	9878.5	9749.7	9645.2
65°	10792.4	10888.2	10950.8	11398.2	12216.3	12980.5	12272.0	11446.9	10884.7	10715.9	10632.2
67.5°	11253.7	11306.0	11459.1	11965.6	12829.0	13701.2	12975.3	12019.6	11391.2	11095.3	11098.8
70°	10578.3	10472.1	10841.1	11652.3	12902.2	14143.3	13069.3	11627.9	10858.5	10378.1	10493.0
72.5°	8174.4	7991.6	8632.1	10019.5	12066.6	13861.3	12150.1	10097.9	9030.8	8056.0	8298.0
75°	4447.5	4240.3	5124.7	6879.3	9622.6	12014.3	9843.7	7076.0	5706.1	4414.5	4701.7
77.5°	1255.0	1176.7	1890.4	3328.3	5787.9	8435.4	6010.7	3401.4	2242.1	1329.9	1477.8
80°	384.7	372.5	504.8	1002.7	2457.8	4040.1	2362.1	1014.9	642.4	405.6	428.2
82.5°	228.1	208.9	250.6	365.5	626.7	1268.9	609.3	381.2	306.4	205.4	222.8
85°	130.6	121.9	148.0	177.5	210.6	269.8	175.8	181.0	163.6	109.7	114.9
87.5°	53.9	48.8	57.4	55.7	48.8	62.6	47.0	55.7	66.1	43.6	40.1
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)