

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: P883435

Luminaire Tested: **NAV-SB3D-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32554 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

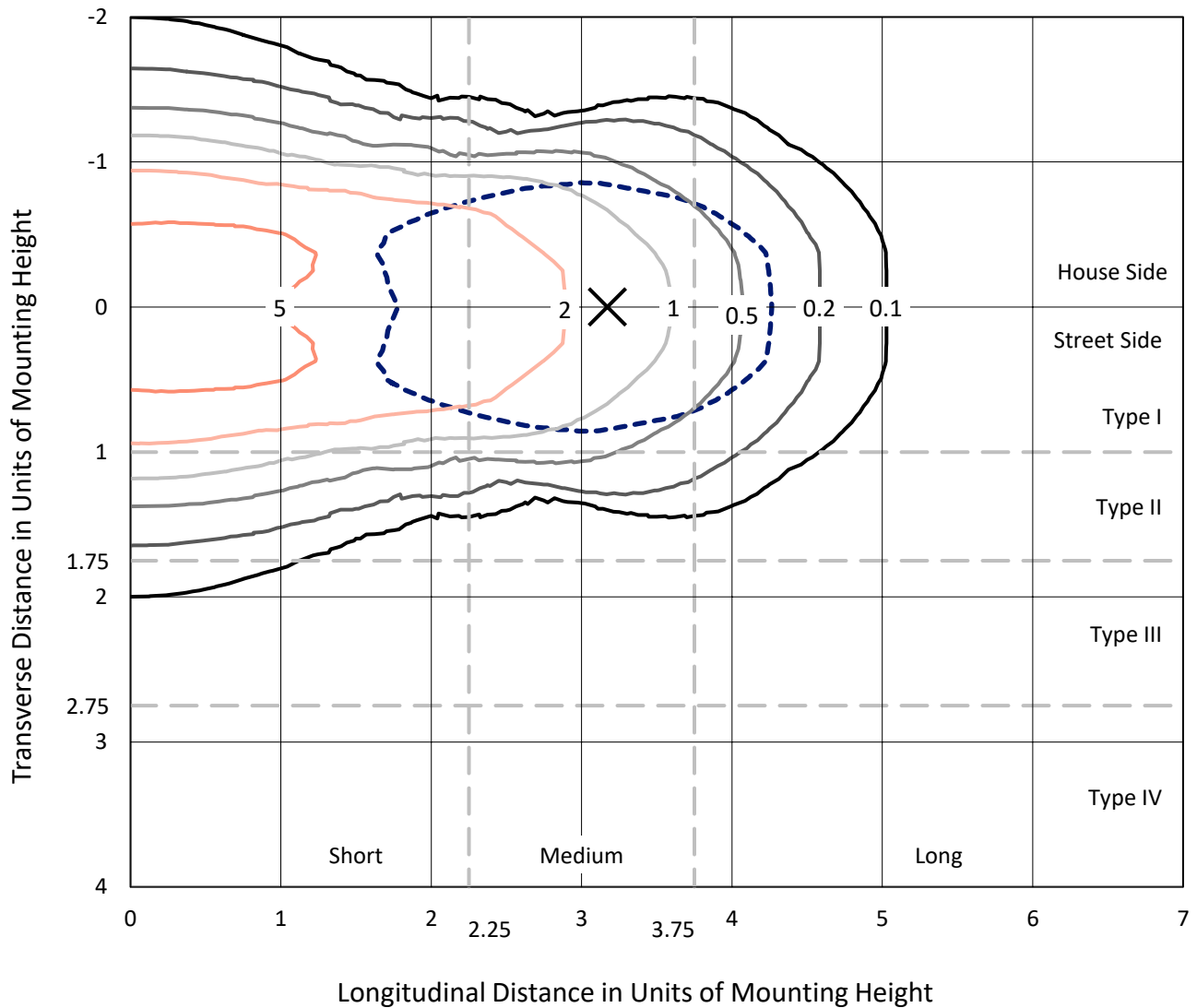
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

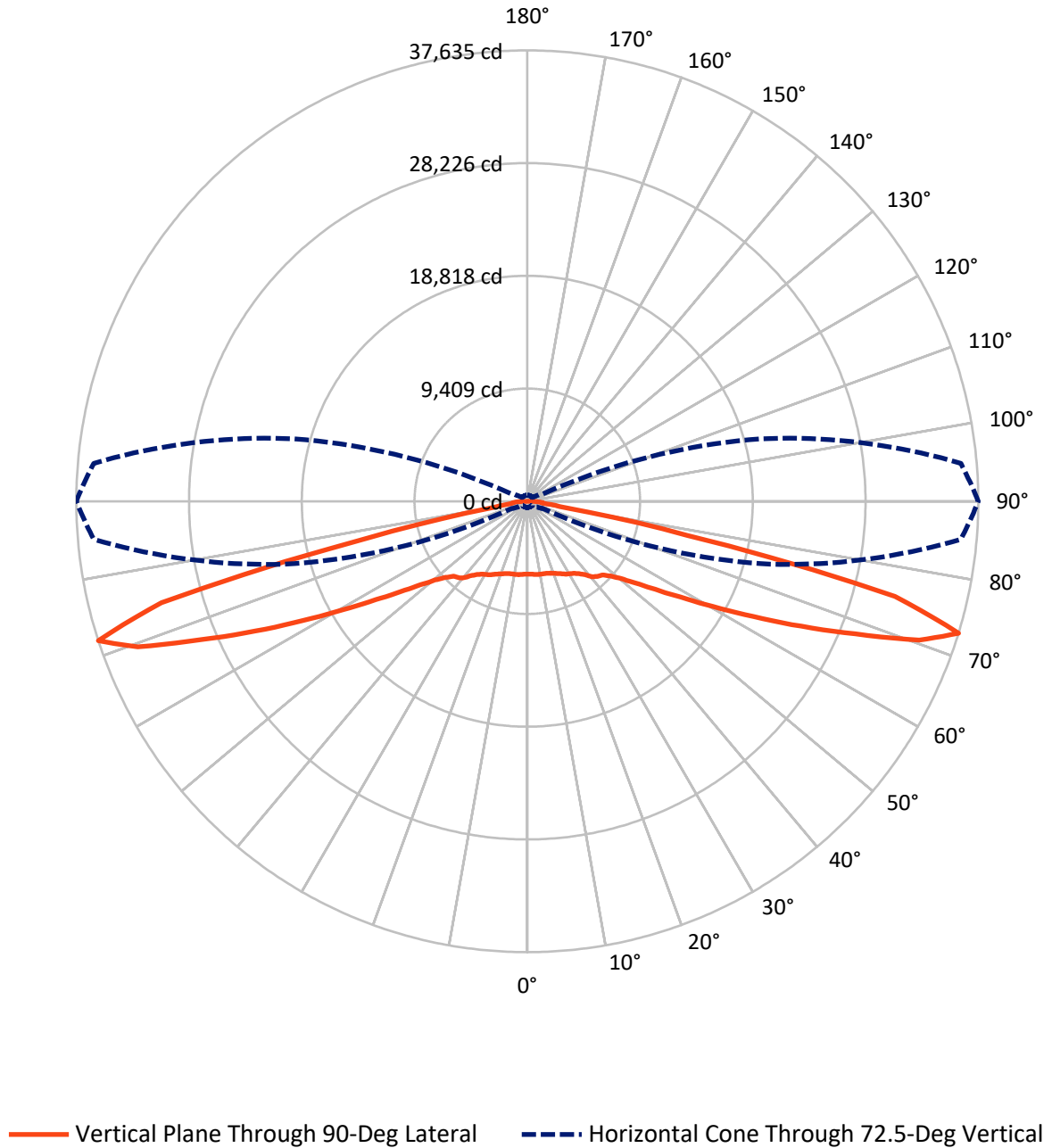
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	16277.0	0.0	16277.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16277.0	0.0	16277.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32554.0	0.0	32554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.8	1.8
10°-20°	1803.5	5.5
20°-30°	3007.1	9.2
30°-40°	4135.7	12.7
40°-50°	5050.8	15.5
50°-60°	5841.8	17.9
60°-70°	6965.4	21.4
70°-80°	4861.4	14.9
80°-90°	298.6	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°	32554.0	100.0
0°-180°	32554.0	100.0

Coefficient of Utilization



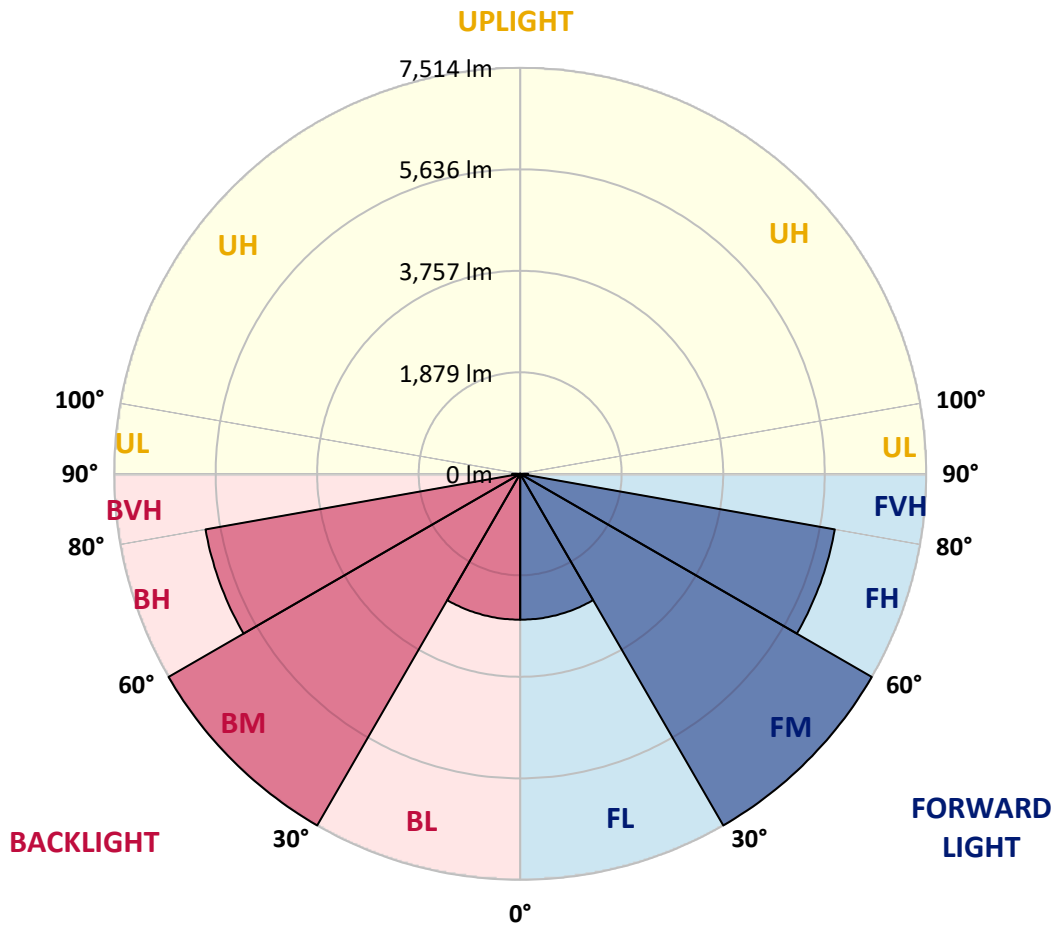
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2700.2	8.3			
FM (30°-60°)	7514.1	23.1			
FH (60°-80°)	5913.4	18.2			G3/7500
FVH (80°-90°)	149.3	0.5			G2/225
BL (0°-30°)	2700.2	8.3	B4/5000		
BM (30°-60°)	7514.1	23.1	B4/8500		
BH (60°-80°)	5913.4	18.2	B5		G5
BVH (80°-90°)	149.3	0.5			G2/225
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°	6083.1	6083.1	6083.1	6083.1	6083.1	6083.1	6083.1	6083.1	6083.1	6083.1	6083.1
2.5°	6088.2	6095.2	6095.2	6090.0	6102.1	6091.7	6091.7	6086.5	6091.7	6086.5	6086.5
5°	6119.4	6128.0	6131.5	6129.8	6145.3	6136.7	6136.7	6129.8	6131.5	6126.3	6126.3
7.5°	6178.2	6190.3	6197.2	6205.9	6228.4	6218.0	6211.1	6190.3	6181.7	6167.8	6167.8
10°	6197.2	6211.1	6233.6	6278.6	6330.5	6332.2	6311.4	6259.5	6219.7	6188.6	6183.4
12.5°	6138.4	6157.5	6204.2	6295.9	6411.8	6458.5	6425.6	6339.1	6261.3	6205.9	6197.2
15°	6064.0	6084.8	6155.7	6294.1	6465.4	6574.4	6570.9	6456.8	6332.2	6245.7	6231.8
17.5°	5948.1	5968.9	6070.9	6264.7	6506.9	6686.9	6735.3	6617.7	6442.9	6327.0	6308.0
20°	5738.8	5757.8	5899.7	6171.3	6520.8	6806.2	6932.5	6828.7	6610.7	6453.3	6423.9
22.5°	5467.1	5496.6	5662.6	6010.4	6487.9	6930.8	7157.5	7086.5	6806.2	6588.2	6548.5
25°	5176.5	5207.6	5401.4	5813.2	6403.1	7020.8	7423.9	7378.9	7027.7	6756.1	6700.7
27.5°	4925.6	4958.5	5169.6	5617.7	6271.6	7055.4	7686.9	7709.4	7295.9	6941.2	6882.4
30°	4728.4	4759.5	4984.4	5460.2	6102.1	7020.8	7917.0	8072.7	7569.2	7102.1	7017.3
32.5°	4512.1	4551.9	4788.9	5268.2	5901.4	6937.7	8117.7	8465.4	7885.8	7275.1	7167.8
35°	4238.8	4275.1	4524.2	5005.2	5638.4	6804.5	8285.5	8901.4	8339.1	7538.1	7418.7
37.5°	3906.6	3941.2	4188.6	4676.5	5377.2	6617.7	8413.5	9392.8	8878.9	7917.0	7757.8
40°	3572.7	3605.5	3837.4	4309.7	5064.0	6378.9	8458.5	9873.7	9498.3	8437.7	8268.2
42.5°	3266.4	3295.9	3508.7	3948.1	4712.8	6074.4	8399.7	10292.4	10053.7	8801.1	8583.1
45°	2984.4	3010.4	3199.0	3609.0	4347.8	5704.2	8223.2	10742.2	10714.6	9060.6	8766.5
47.5°	2662.6	2688.6	2884.1	3280.3	3982.7	5269.9	7923.9	11185.1	11633.2	9648.8	9309.7
50°	2269.9	2292.4	2493.1	2901.4	3603.8	4808.0	7508.7	11532.9	12792.4	10539.8	10114.2
52.5°	1804.5	1828.7	2024.2	2432.5	3154.0	4311.4	6962.0	11759.5	14131.5	11840.9	11316.6
55°	1342.6	1359.9	1529.4	1896.2	2596.9	3745.7	6276.8	11823.6	15650.6	13619.4	12963.7
57.5°	974.1	984.4	1093.4	1366.8	1968.9	3038.1	5444.6	11657.5	17458.5	15899.7	15074.4
60°	788.9	792.4	825.3	946.4	1368.5	2238.8	4439.5	11086.5	19420.5	18839.1	17799.3
62.5°	716.3	716.3	724.9	757.8	925.6	1477.5	3223.2	9903.1	21524.3	22553.7	21160.9
65°	666.1	666.1	669.6	685.1	730.1	941.2	2034.6	7975.8	23297.6	26904.9	25143.7
67.5°	621.1	622.8	621.1	626.3	652.3	695.5	1179.9	5508.7	24252.6	31413.6	29512.2
70°	574.4	577.9	569.2	569.2	590.0	591.7	738.8	3020.8	23460.3	35192.1	34692.1
72.5°	519.0	524.2	510.4	506.9	522.5	515.6	555.4	1449.8	20141.9	36320.2	37635.0
75°	470.6	477.5	446.4	437.7	437.7	432.5	451.6	743.9	13072.7	29628.1	31690.4
77.5°	427.3	441.2	391.0	363.3	356.4	340.8	368.5	455.0	5718.0	13910.1	13621.1
80°	352.9	372.0	321.8	288.9	276.8	259.5	290.7	318.3	1700.7	3230.1	3093.4
82.5°	263.0	271.6	228.4	205.9	195.5	183.4	218.0	221.5	553.6	1143.6	1292.4
85°	167.8	171.3	140.1	121.1	115.9	110.7	138.4	121.1	211.1	840.8	1221.5
87.5°	58.8	67.5	53.6	48.4	51.9	43.3	64.0	36.3	58.8	593.4	735.3
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)