

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: P883425

Luminaire Tested: **NAV-SB3D-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883425
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30195 lumens
Efficiency: N/A
Efficacy: 138.4 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

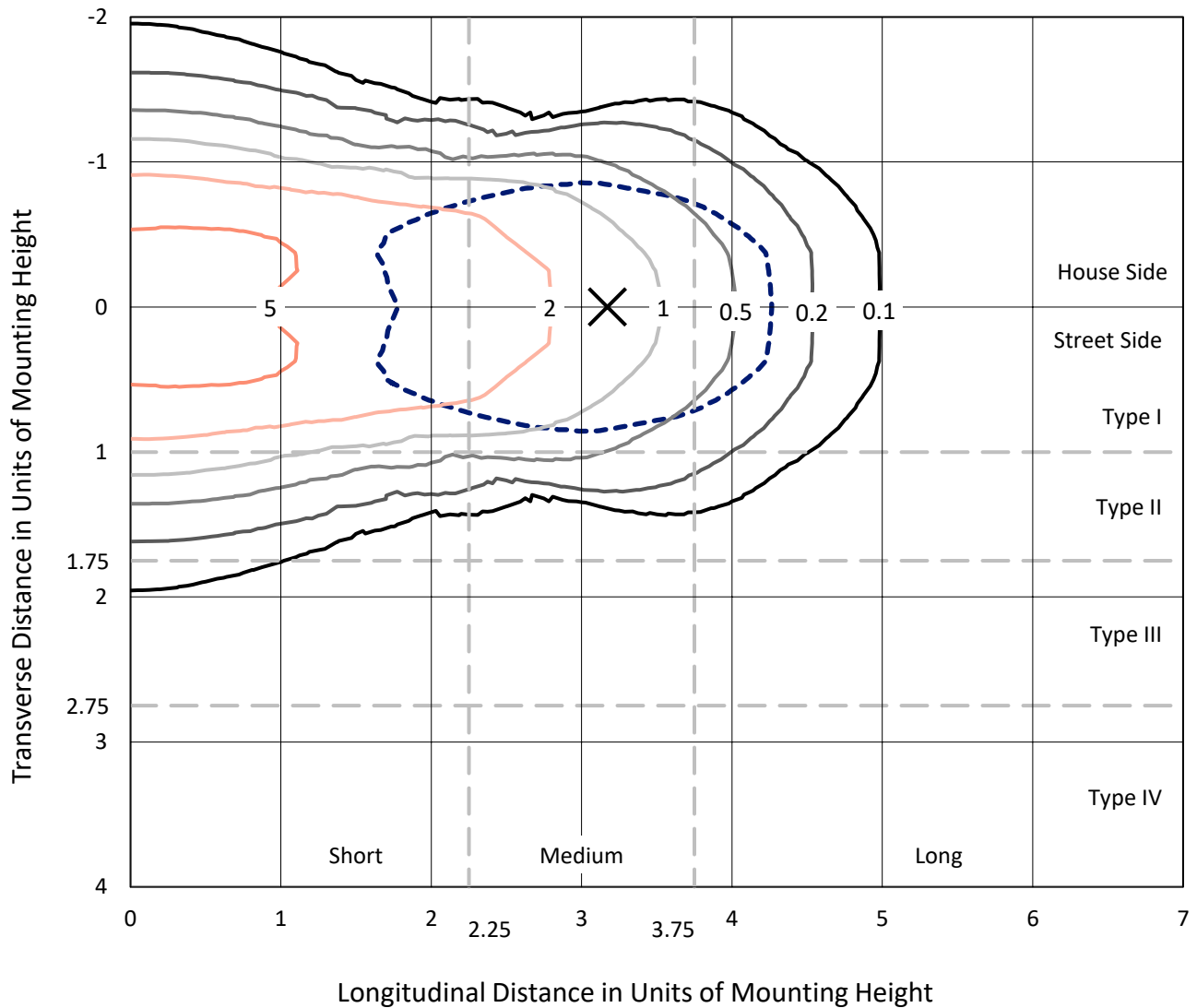
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

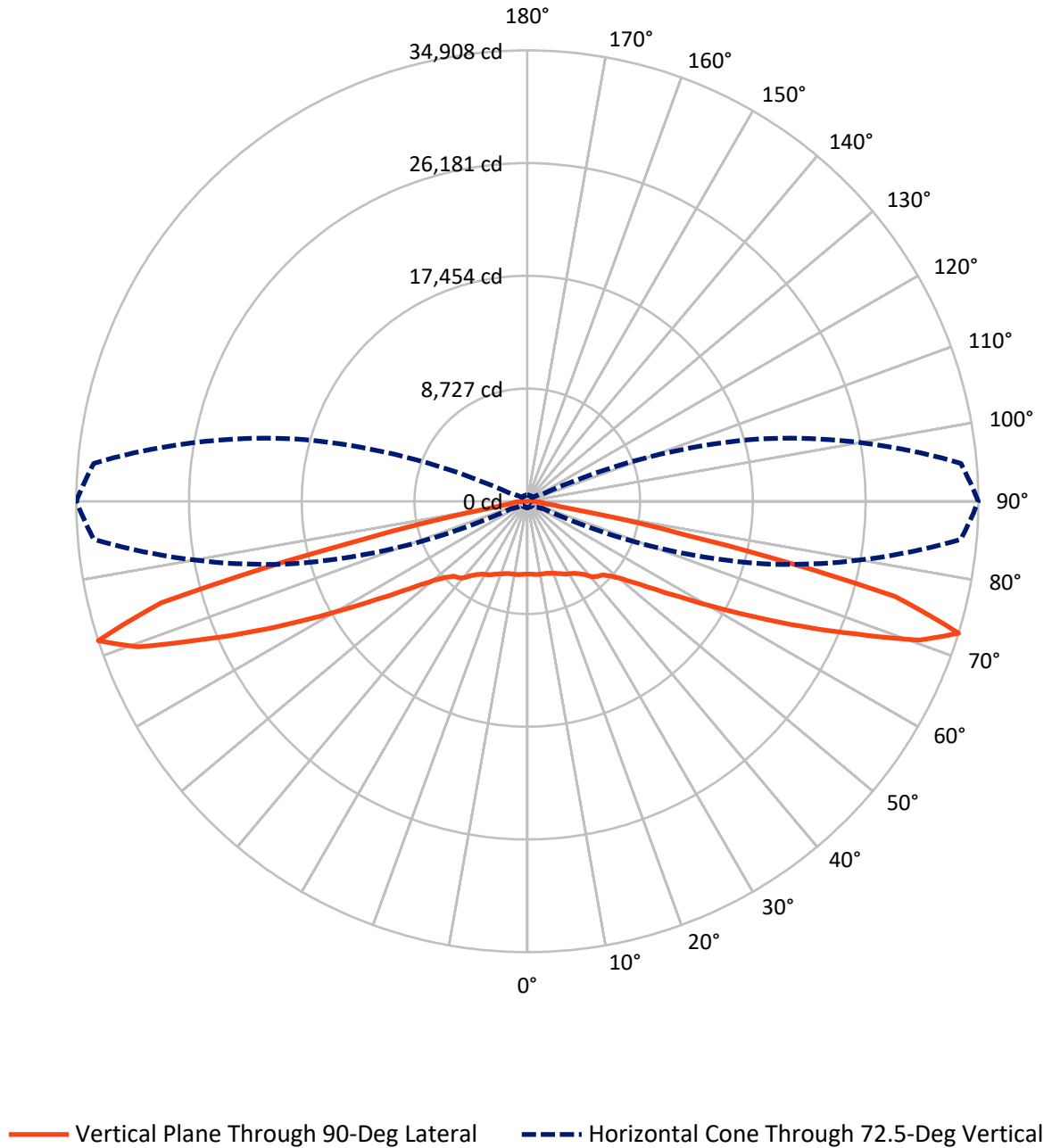
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	15097.5	0.0	15097.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15097.5	0.0	15097.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30195.0	0.0	30195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.1	1.8
10°-20°	1672.8	5.5
20°-30°	2789.2	9.2
30°-40°	3836.0	12.7
40°-50°	4684.8	15.5
50°-60°	5418.5	17.9
60°-70°	6460.6	21.4
70°-80°	4509.1	14.9
80°-90°	276.9	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°	30195.0	100.0
0°-180°	30195.0	100.0

Coefficient of Utilization



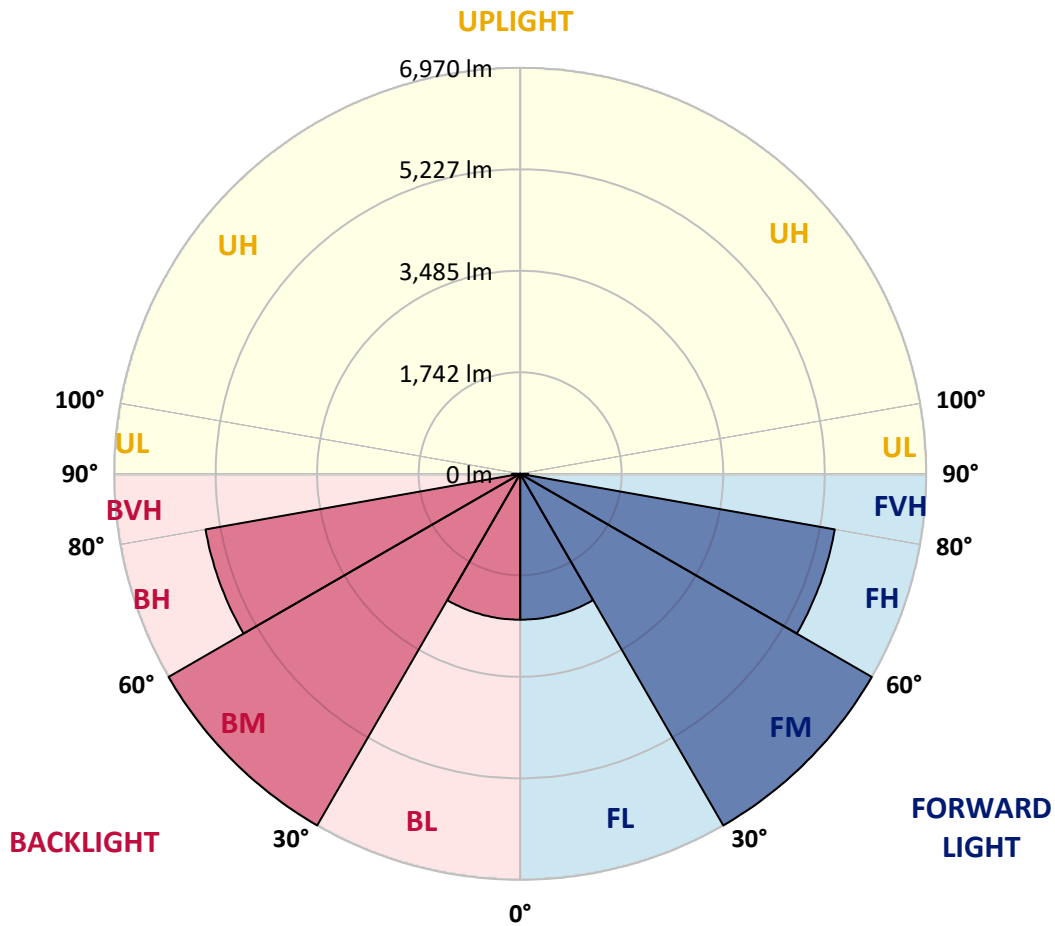
REPORT NUMBER: P883425
 CATALOG NUMBER: NAV-SB3D-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2504.5	8.3			
FM (30°-60°)	6969.6	23.1			
FH (60°-80°)	5484.9	18.2			G3/7500
FVH (80°-90°)	138.5	0.5			G2/225
BL (0°-30°)	2504.5	8.3	B4/5000		
BM (30°-60°)	6969.6	23.1	B4/8500		
BH (60°-80°)	5484.9	18.2	B5		G5
BVH (80°-90°)	138.5	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°	5642.3	5642.3	5642.3	5642.3	5642.3	5642.3	5642.3	5642.3	5642.3	5642.3	5642.3
2.5°	5647.1	5653.5	5653.5	5648.7	5659.9	5650.3	5650.3	5645.5	5650.3	5645.5	5645.5
5°	5676.0	5684.0	5687.2	5685.6	5700.0	5692.0	5692.0	5685.6	5687.2	5682.4	5682.4
7.5°	5730.5	5741.7	5748.2	5756.2	5777.1	5767.4	5761.0	5741.7	5733.7	5720.9	5720.9
10°	5748.2	5761.0	5781.9	5823.6	5871.7	5873.3	5854.1	5805.9	5769.0	5740.1	5735.3
12.5°	5693.6	5711.3	5754.6	5839.6	5947.2	5990.5	5960.0	5879.8	5807.5	5756.2	5748.2
15°	5624.6	5643.9	5709.7	5838.0	5996.9	6098.0	6094.8	5988.9	5873.3	5793.1	5780.3
17.5°	5517.1	5536.3	5631.0	5810.8	6035.4	6202.3	6247.2	6138.1	5976.0	5868.5	5850.9
20°	5322.9	5340.6	5472.2	5724.1	6048.3	6313.0	6430.2	6333.9	6131.7	5985.7	5958.4
22.5°	5071.0	5098.2	5252.3	5574.9	6017.8	6428.6	6638.8	6573.0	6313.0	6110.8	6073.9
25°	4801.4	4830.3	5010.0	5391.9	5939.1	6512.0	6885.9	6844.2	6518.4	6266.5	6215.1
27.5°	4568.7	4599.2	4795.0	5210.6	5817.2	6544.1	7129.8	7150.7	6767.2	6438.2	6383.6
30°	4385.7	4414.6	4623.2	5064.5	5659.9	6512.0	7343.3	7487.7	7020.7	6587.4	6508.8
32.5°	4185.2	4222.1	4441.9	4886.4	5473.8	6435.0	7529.4	7852.0	7314.4	6747.9	6648.4
35°	3931.6	3965.3	4196.4	4642.5	5229.8	6311.4	7685.1	8256.4	7734.8	6991.8	6881.1
37.5°	3623.5	3655.6	3885.1	4337.6	4987.5	6138.1	7803.8	8712.1	8235.5	7343.3	7195.6
40°	3313.8	3344.3	3559.3	3997.4	4697.1	5916.7	7845.6	9158.2	8810.0	7826.3	7669.0
42.5°	3029.7	3057.0	3254.4	3662.0	4371.3	5634.2	7791.0	9546.6	9325.1	8163.3	7961.1
45°	2768.2	2792.2	2967.2	3347.5	4032.7	5290.8	7627.3	9963.8	9938.1	8404.0	8131.2
47.5°	2469.7	2493.8	2675.1	3042.6	3694.1	4888.0	7349.7	10374.6	10790.3	8949.6	8635.1
50°	2105.4	2126.3	2312.4	2691.1	3342.7	4459.6	6964.6	10697.2	11865.4	9776.1	9381.3
52.5°	1673.7	1696.2	1877.5	2256.3	2925.4	3999.0	6457.5	10907.4	13107.5	10982.8	10496.6
55°	1245.3	1261.3	1418.6	1758.8	2408.7	3474.3	5822.0	10966.8	14516.4	12632.5	12024.3
57.5°	903.5	913.1	1014.2	1267.7	1826.2	2817.9	5050.1	10812.7	16193.4	14747.5	13982.1
60°	731.8	735.0	765.5	877.8	1269.3	2076.5	4117.8	10283.2	18013.2	17474.0	16509.5
62.5°	664.4	664.4	672.4	702.9	858.5	1370.4	2989.6	9185.5	19964.5	20919.3	19627.5
65°	617.8	617.8	621.0	635.5	677.2	873.0	1887.2	7397.8	21609.4	24955.3	23321.6
67.5°	576.1	577.7	576.1	580.9	605.0	645.1	1094.4	5109.5	22495.2	29137.2	27373.6
70°	532.8	536.0	528.0	528.0	547.2	548.8	685.2	2801.9	21760.2	32642.0	32178.2
72.5°	481.4	486.2	473.4	470.2	484.6	478.2	515.1	1344.8	18682.3	33688.2	34907.8
75°	436.5	442.9	414.0	406.0	406.0	401.2	418.8	690.0	12125.4	27481.1	29394.0
77.5°	396.4	409.2	362.7	337.0	330.6	316.1	341.8	422.0	5303.7	12902.1	12634.1
80°	327.4	345.0	298.5	268.0	256.8	240.7	269.6	295.3	1577.5	2996.0	2869.3
82.5°	243.9	251.9	211.8	191.0	181.3	170.1	202.2	205.4	513.5	1060.7	1198.7
85°	155.7	158.9	130.0	112.3	107.5	102.7	128.4	112.3	195.8	779.9	1132.9
87.5°	54.6	62.6	49.7	44.9	48.1	40.1	59.4	33.7	54.6	550.4	682.0
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)