

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: P884785

Luminaire Tested: **NAV-SB5D-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884785
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-SB5D-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 51082 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

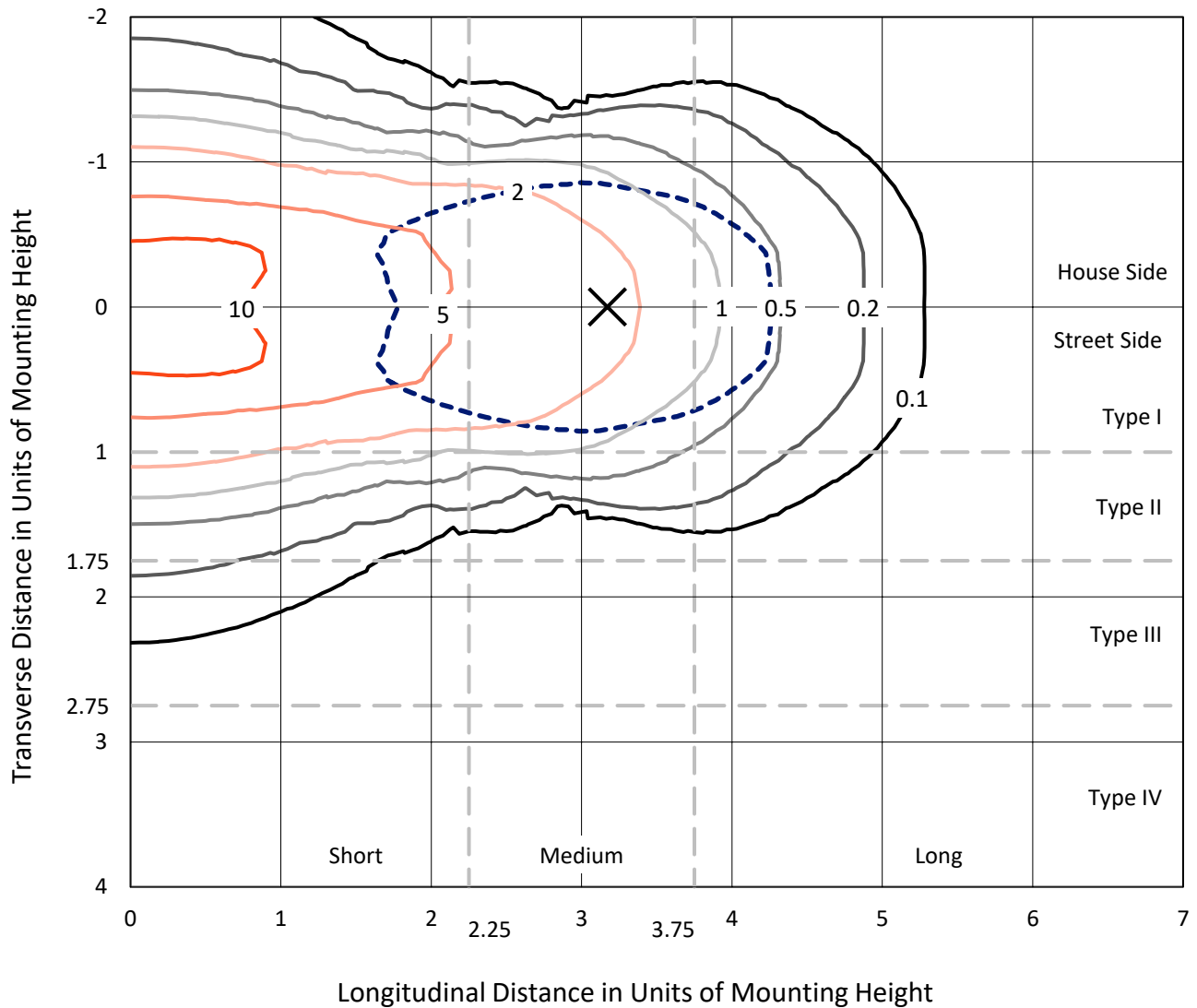
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

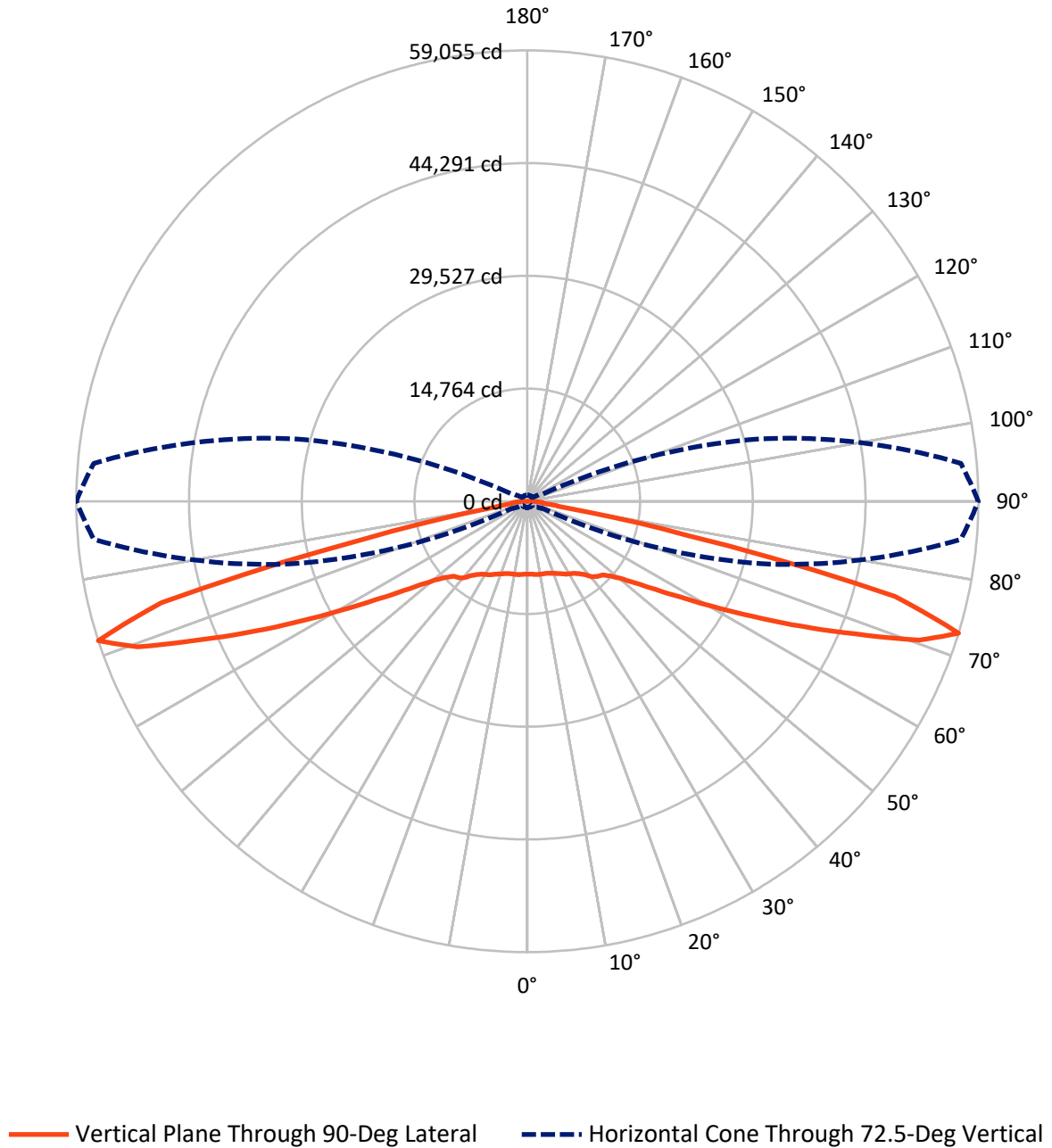
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	25541.0	0.0	25541.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25541.0	0.0	25541.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51082.0	0.0	51082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.5	1.8
10°-20°	2829.9	5.5
20°-30°	4718.6	9.2
30°-40°	6489.5	12.7
40°-50°	7925.5	15.5
50°-60°	9166.6	17.9
60°-70°	10929.7	21.4
70°-80°	7628.2	14.9
80°-90°	468.5	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°	51082.0	100.0
0°-180°	51082.0	100.0

Coefficient of Utilization



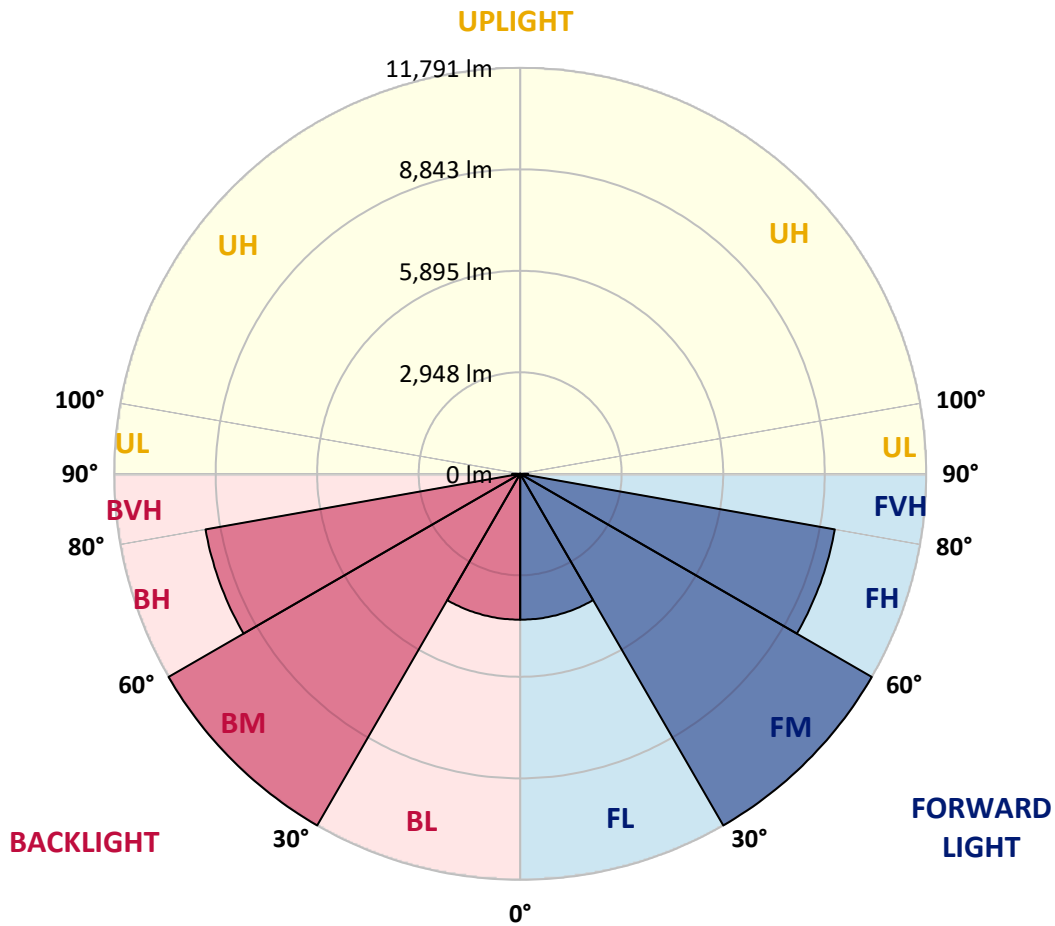
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4237.0	8.3			
FM (30°-60°)	11790.8	23.1			
FH (60°-80°)	9279.0	18.2			G4/12000
FVH (80°-90°)	234.3	0.5			G3/500
BL (0°-30°)	4237.0	8.3	B4/5000		
BM (30°-60°)	11790.8	23.1	B5		
BH (60°-80°)	9279.0	18.2	B5		G5
BVH (80°-90°)	234.3	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9545.2	9545.2	9545.2	9545.2	9545.2	9545.2	9545.2	9545.2	9545.2	9545.2	9545.2
2.5°	9553.4	9564.2	9564.2	9556.1	9575.1	9558.8	9558.8	9550.6	9558.8	9550.6	9550.6
5°	9602.2	9615.8	9621.2	9618.5	9642.9	9629.4	9629.4	9618.5	9621.2	9613.1	9613.1
7.5°	9694.5	9713.5	9724.4	9738.0	9773.3	9757.0	9746.1	9713.5	9700.0	9678.2	9678.2
10°	9724.4	9746.1	9781.4	9852.0	9933.4	9936.1	9903.6	9822.1	9759.7	9710.8	9702.7
12.5°	9632.1	9661.9	9735.2	9879.1	10061.0	10134.3	10082.7	9947.0	9824.8	9738.0	9724.4
15°	9515.3	9547.9	9659.2	9876.4	10145.2	10316.2	10310.8	10131.6	9936.1	9800.4	9778.7
17.5°	9333.5	9366.0	9526.2	9830.3	10210.3	10492.7	10568.7	10384.1	10109.9	9928.0	9898.1
20°	9005.0	9034.8	9257.4	9683.7	10232.1	10680.0	10878.2	10715.3	10373.2	10126.2	10080.0
22.5°	8578.7	8624.9	8885.5	9431.2	10180.5	10875.5	11231.1	11119.8	10680.0	10337.9	10275.5
25°	8122.7	8171.5	8475.6	9121.7	10047.4	11016.6	11649.2	11578.6	11027.5	10601.3	10514.4
27.5°	7729.0	7780.6	8111.8	8814.9	9841.1	11070.9	12061.8	12097.1	11448.3	10891.7	10799.4
30°	7419.5	7468.4	7821.3	8567.9	9575.1	11016.6	12422.9	12667.2	11877.2	11144.2	11011.2
32.5°	7080.2	7142.6	7514.5	8266.5	9260.2	10886.3	12737.8	13283.5	12374.0	11415.7	11247.4
35°	6651.2	6708.3	7099.2	7853.9	8847.5	10677.3	13001.1	13967.6	13085.3	11828.4	11641.0
37.5°	6130.0	6184.3	6572.5	7338.1	8437.6	10384.1	13202.0	14738.6	13932.3	12422.9	12173.1
40°	5606.0	5657.6	6021.4	6762.5	7946.2	10009.4	13272.6	15493.3	14904.2	13240.0	12974.0
42.5°	5125.5	5171.7	5505.6	6195.2	7395.1	9531.6	13180.3	16150.3	15775.7	13810.2	13468.1
45°	4683.0	4723.7	5019.7	5663.1	6822.3	8950.7	12903.4	16856.1	16812.7	14217.4	13755.9
47.5°	4178.1	4218.8	4525.6	5147.2	6249.5	8269.3	12433.8	17551.1	18254.3	15140.4	14608.3
50°	3561.8	3597.1	3912.0	4552.7	5654.9	7544.4	11782.2	18096.8	20073.2	16538.5	15870.7
52.5°	2831.5	2869.5	3176.3	3817.0	4949.1	6765.3	10924.3	18452.4	22174.4	18580.0	17757.5
55°	2106.7	2133.8	2399.9	2975.4	4074.9	5877.5	9849.3	18552.9	24558.0	21370.8	20341.9
57.5°	1528.4	1544.7	1715.7	2144.7	3089.4	4767.2	8543.5	18292.3	27395.0	24948.9	23654.0
60°	1237.9	1243.4	1295.0	1485.0	2147.4	3512.9	6966.2	17396.4	30473.5	29561.4	27929.8
62.5°	1123.9	1123.9	1137.5	1189.1	1452.4	2318.4	5057.7	15539.5	33774.7	35390.0	33204.6
65°	1045.2	1045.2	1050.6	1075.1	1145.6	1476.8	3192.6	12515.2	36557.4	42217.7	39454.1
67.5°	974.6	977.3	974.6	982.8	1023.5	1091.3	1851.5	8643.9	38056.0	49292.5	46308.9
70°	901.3	906.7	893.2	893.2	925.7	928.5	1159.2	4740.0	36812.6	55221.6	54437.0
72.5°	814.4	822.6	800.9	795.4	819.9	809.0	871.4	2275.0	31605.6	56991.6	59054.9
75°	738.4	749.3	700.4	686.8	686.8	678.7	708.6	1167.4	20513.0	46490.8	49726.9
77.5°	670.6	692.3	613.5	570.1	559.2	534.8	578.3	714.0	8972.4	21826.9	21373.6
80°	553.8	583.7	505.0	453.4	434.4	407.2	456.1	499.5	2668.6	5068.5	4854.0
82.5°	412.6	426.2	358.4	323.1	306.8	287.8	342.1	347.5	868.7	1794.5	2028.0
85°	263.3	268.8	219.9	190.0	181.9	173.7	217.2	190.0	331.2	1319.4	1916.6
87.5°	92.3	105.9	84.2	76.0	81.4	67.9	100.4	57.0	92.3	931.2	1153.8
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)