

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: P882292

Luminaire Tested: **NAV-SB2A-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7803 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

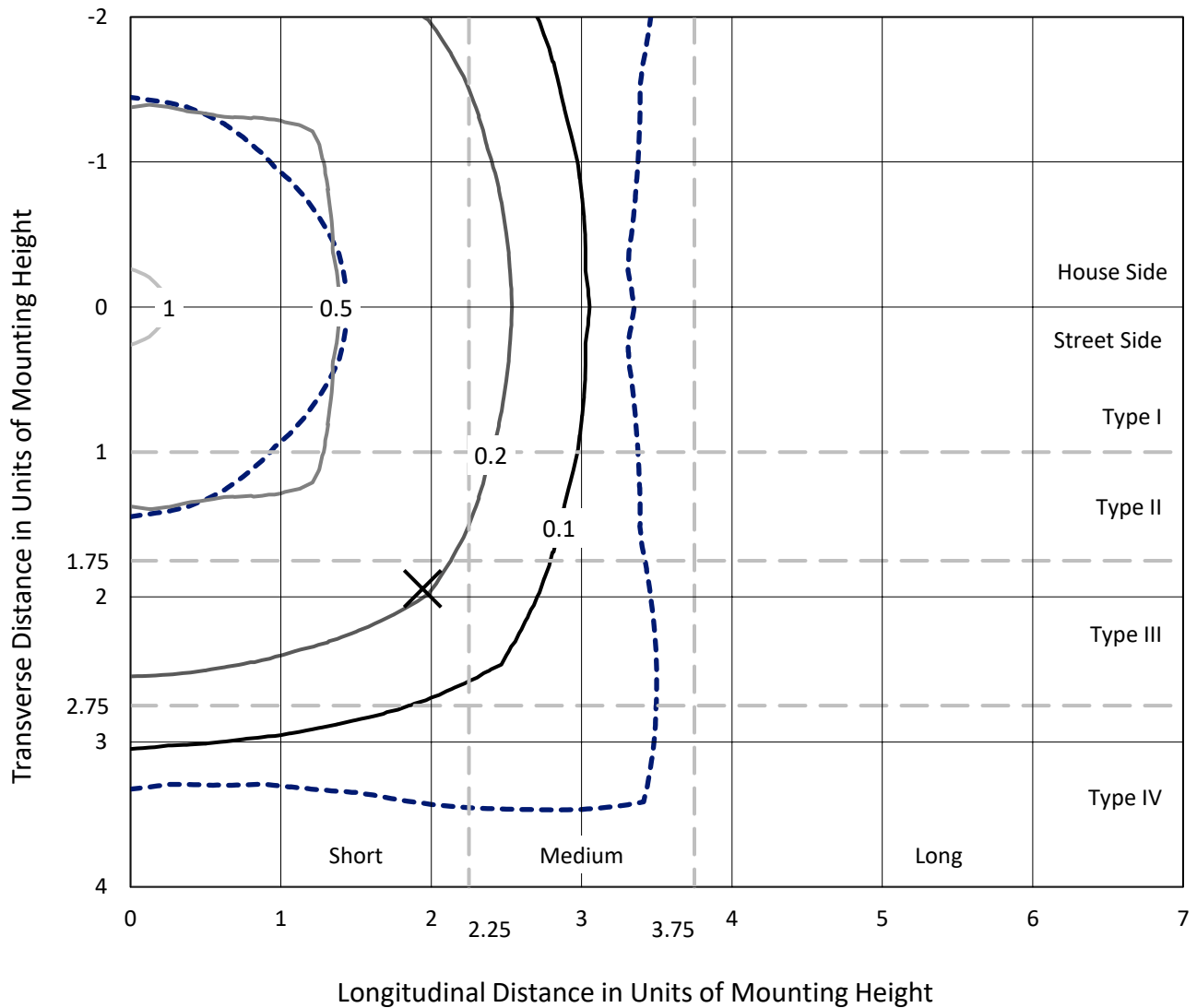
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

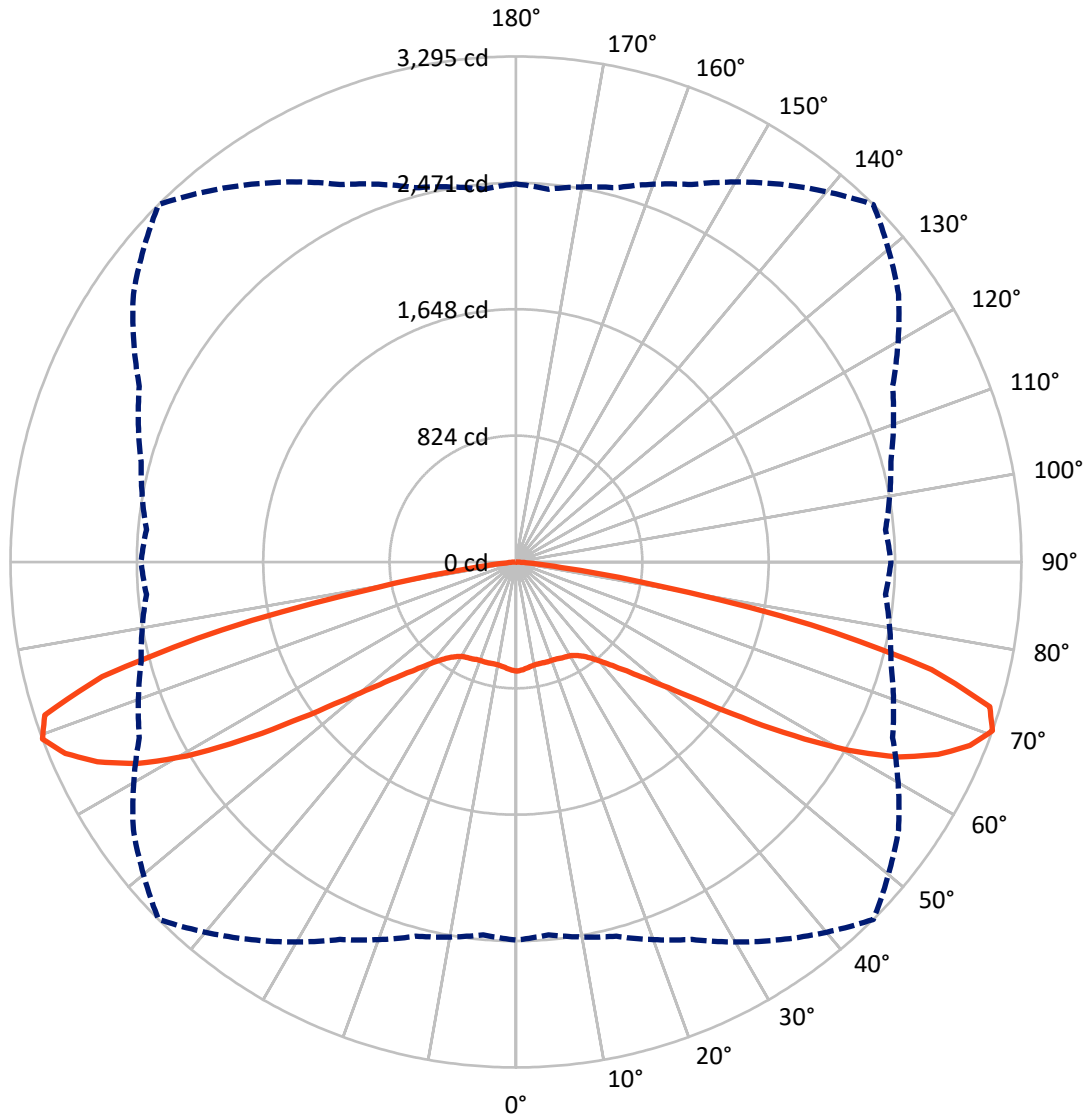
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3901.5	0.0	3901.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3901.5	0.0	3901.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7803.0	0.0	7803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	0.8
10°-20°	194.4	2.5
20°-30°	323.5	4.1
30°-40°	489.3	6.3
40°-50°	813.1	10.4
50°-60°	1534.3	19.7
60°-70°	2590.7	33.2
70°-80°	1702.3	21.8
80°-90°	89.2	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°	7803.0	100.0
0°-180°	7803.0	100.0

Coefficient of Utilization



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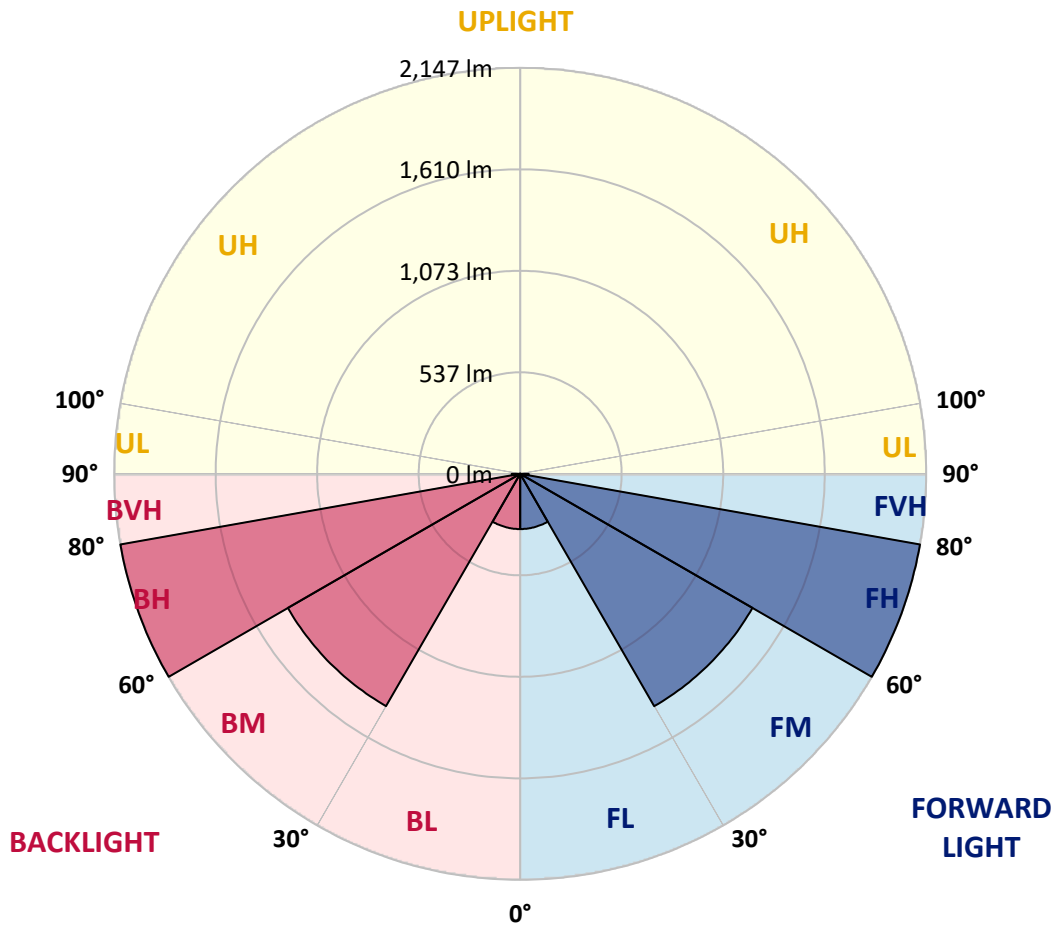
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.1	3.7			
FM (30°-60°)	1418.3	18.2			
FH (60°-80°)	2146.5	27.5			G2/5000
FVH (80°-90°)	44.6	0.6			G1/100
BL (0°-30°)	292.1	3.7	B1/500		
BM (30°-60°)	1418.3	18.2	B2/2500		
BH (60°-80°)	2146.5	27.5	B3/2500		G2/5000
BVH (80°-90°)	44.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	707.3	709.4	708.5	706.9	706.9	705.7	706.9	707.7	709.0	709.8	709.4
5°	698.0	699.6	699.2	698.0	698.4	697.2	698.0	699.2	700.0	700.4	700.4
7.5°	689.9	691.5	690.7	688.7	688.7	687.5	687.9	689.1	690.3	690.7	690.7
10°	687.9	689.5	687.1	683.8	682.6	681.0	681.4	682.6	685.0	686.2	686.2
12.5°	688.7	689.9	687.5	682.6	681.4	679.7	679.7	681.0	684.2	685.8	686.2
15°	691.1	692.3	688.7	683.4	682.2	681.0	680.6	682.2	685.8	688.7	689.1
17.5°	695.6	696.8	691.1	683.8	682.2	682.6	682.2	683.4	689.1	694.4	694.4
20°	699.6	700.4	692.7	683.8	682.2	682.6	682.2	684.6	691.9	699.2	699.6
22.5°	700.8	701.7	694.4	686.6	685.4	685.8	685.4	687.9	694.8	702.1	702.1
25°	701.2	702.5	696.8	690.7	692.7	693.5	692.7	693.1	698.4	704.9	704.5
27.5°	707.3	709.0	703.7	698.4	699.6	699.2	700.4	701.7	705.7	712.2	710.6
30°	719.9	721.1	716.7	711.4	710.6	707.7	711.4	715.4	719.9	725.6	724.4
32.5°	740.6	743.0	737.3	731.7	728.0	726.4	729.2	736.1	742.2	748.3	745.9
35°	775.1	776.7	771.4	760.9	754.4	754.4	756.8	765.7	775.5	783.2	780.3
37.5°	823.7	825.8	816.4	803.9	794.1	794.1	797.4	806.7	821.3	832.2	828.2
40°	882.9	885.8	874.0	861.0	851.7	850.1	854.1	864.7	878.5	892.3	887.8
42.5°	954.3	957.6	942.2	930.8	923.5	923.5	925.5	935.3	947.8	964.9	963.7
45°	1045.6	1051.3	1030.2	1018.8	1011.9	1013.5	1014.8	1023.3	1034.6	1054.1	1053.3
47.5°	1154.3	1160.0	1137.6	1125.9	1124.7	1132.4	1127.5	1133.6	1139.7	1162.0	1155.5
50°	1277.6	1287.3	1271.9	1271.1	1273.5	1287.7	1276.4	1279.6	1272.7	1286.9	1278.4
52.5°	1428.4	1442.6	1439.8	1444.7	1471.8	1501.0	1475.1	1463.7	1437.8	1442.2	1427.2
55°	1611.4	1632.9	1636.9	1666.1	1727.8	1787.4	1732.2	1686.4	1631.2	1621.1	1605.3
57.5°	1819.4	1836.5	1855.9	1915.5	2030.7	2136.6	2030.7	1929.3	1842.5	1821.9	1807.3
60°	2043.3	2064.4	2083.1	2171.1	2342.2	2491.1	2339.0	2178.0	2063.2	2035.2	2010.9
62.5°	2283.8	2311.0	2324.0	2421.7	2621.3	2798.9	2624.1	2429.0	2301.7	2271.6	2247.3
65°	2514.6	2536.9	2551.5	2655.7	2846.4	3024.4	2859.3	2667.1	2536.1	2496.7	2477.3
67.5°	2622.1	2634.2	2669.9	2787.9	2989.1	3192.3	3023.2	2800.5	2654.1	2585.2	2586.0
70°	2464.7	2440.0	2525.9	2714.9	3006.1	3295.3	3045.1	2709.3	2530.0	2418.1	2444.8
72.5°	1904.6	1862.0	2011.3	2334.5	2811.5	3229.6	2830.9	2352.8	2104.1	1877.0	1933.4
75°	1036.3	988.0	1194.0	1602.8	2242.0	2799.3	2293.5	1648.7	1329.5	1028.5	1095.5
77.5°	292.4	274.2	440.5	775.5	1348.5	1965.4	1400.5	792.5	522.4	309.9	344.3
80°	89.6	86.8	117.6	233.6	572.7	941.3	550.4	236.5	149.7	94.5	99.8
82.5°	53.1	48.7	58.4	85.2	146.0	295.7	142.0	88.8	71.4	47.9	51.9
85°	30.4	28.4	34.5	41.4	49.1	62.9	41.0	42.2	38.1	25.6	26.8
87.5°	12.6	11.4	13.4	13.0	11.4	14.6	11.0	13.0	15.4	10.1	9.3
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)