

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: P882962

Luminaire Tested: **NAV-SB3A-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882962
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-SB3A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 11909 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

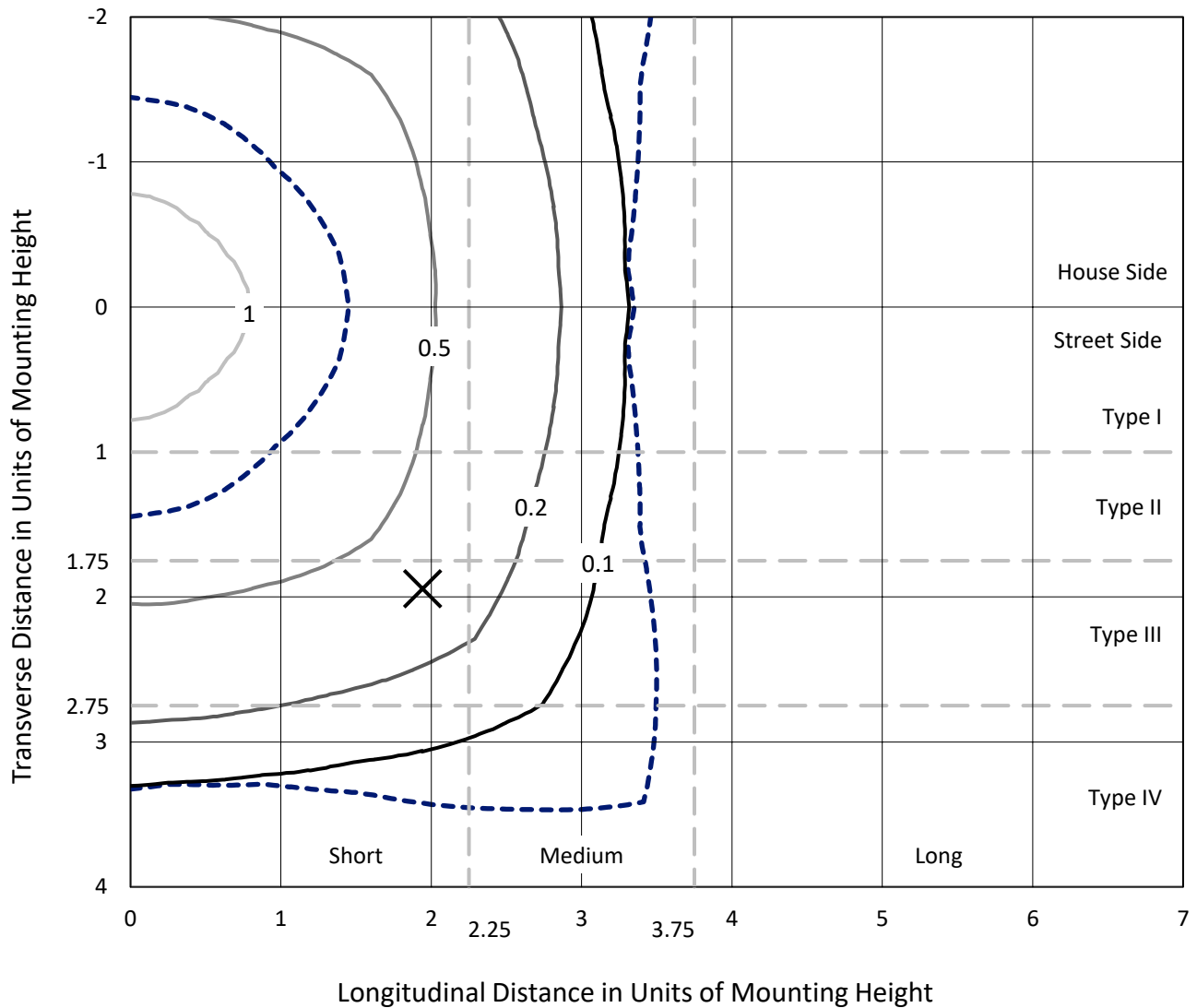
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

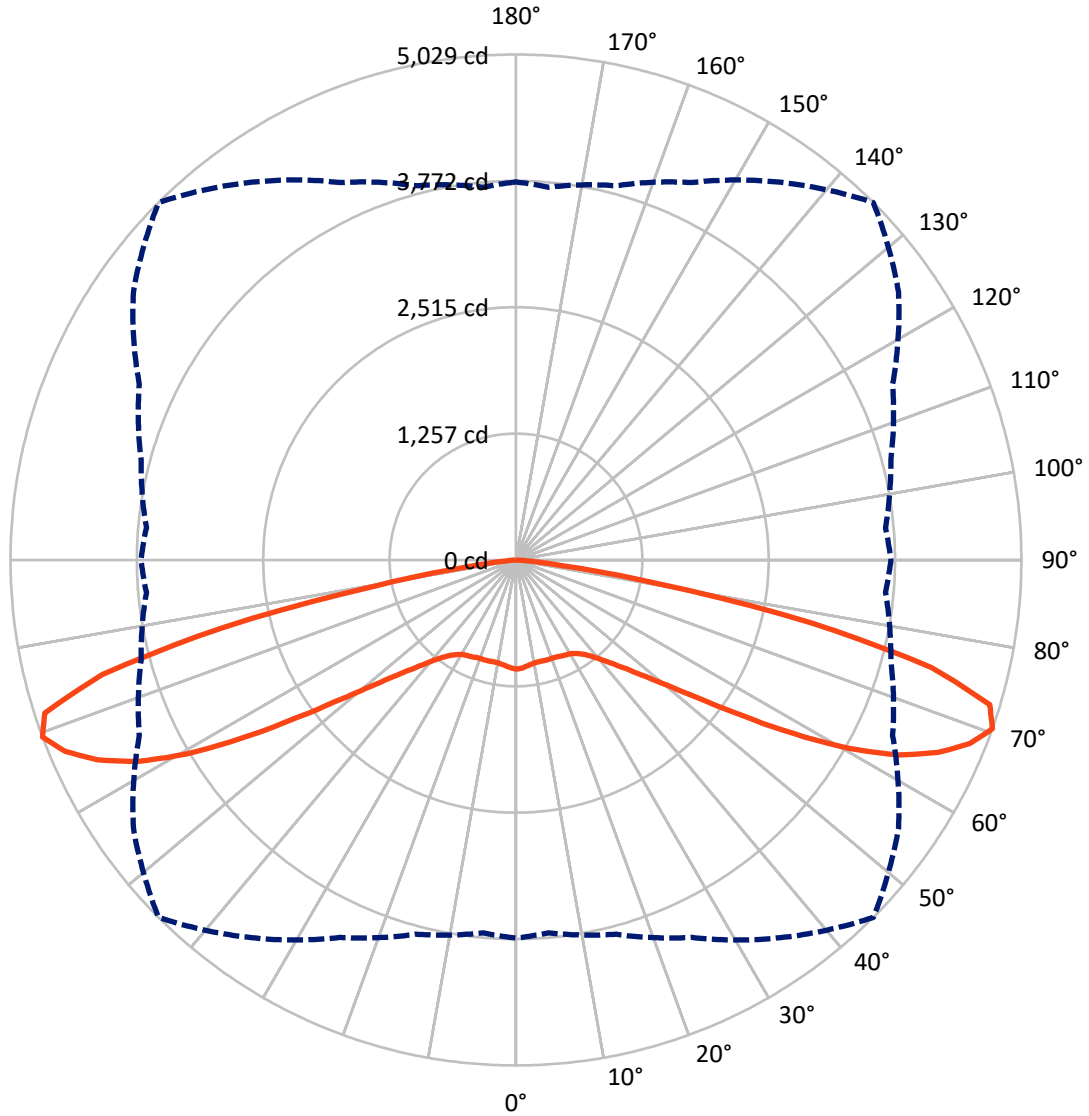
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	5954.5	0.0	5954.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5954.5	0.0	5954.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11909.0	0.0	11909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	0.8
10°-20°	296.7	2.5
20°-30°	493.8	4.1
30°-40°	746.8	6.3
40°-50°	1240.9	10.4
50°-60°	2341.6	19.7
60°-70°	3953.9	33.2
70°-80°	2598.1	21.8
80°-90°	136.1	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°	11909.0	100.0
0°-180°	11909.0	100.0

Coefficient of Utilization



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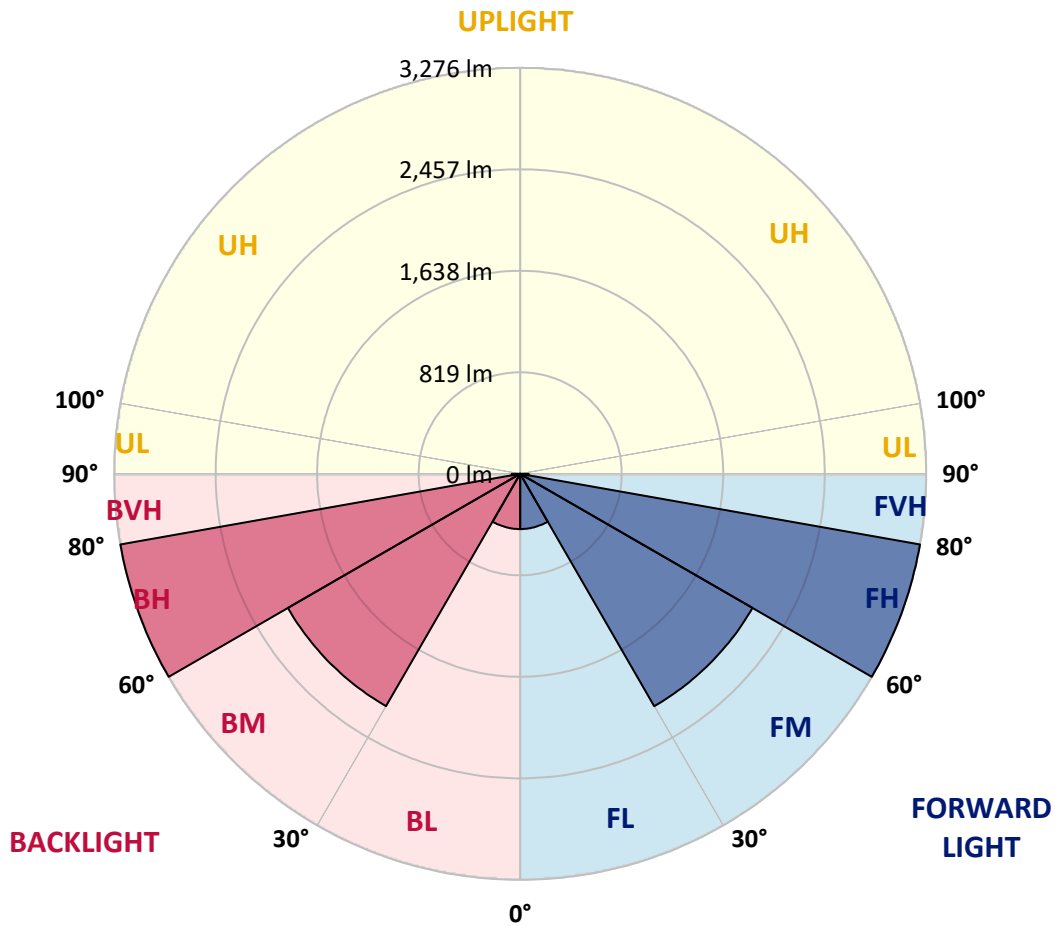
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.8	3.7			
FM (30°-60°)	2164.6	18.2			
FH (60°-80°)	3276.0	27.5			G2/5000
FVH (80°-90°)	68.1	0.6			G1/100
BL (0°-30°)	445.8	3.7	B1/500		
BM (30°-60°)	2164.6	18.2	B2/2500		
BH (60°-80°)	3276.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	68.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3
2.5°	1079.5	1082.6	1081.4	1078.9	1078.9	1077.1	1078.9	1080.2	1082.0	1083.2	1082.6
5°	1065.3	1067.8	1067.2	1065.3	1065.9	1064.1	1065.3	1067.2	1068.4	1069.0	1069.0
7.5°	1052.9	1055.4	1054.2	1051.1	1051.1	1049.2	1049.8	1051.7	1053.5	1054.2	1054.2
10°	1049.8	1052.3	1048.6	1043.6	1041.8	1039.3	1039.9	1041.8	1045.5	1047.3	1047.3
12.5°	1051.1	1052.9	1049.2	1041.8	1039.9	1037.4	1037.4	1039.3	1044.2	1046.7	1047.3
15°	1054.8	1056.6	1051.1	1043.0	1041.2	1039.3	1038.7	1041.2	1046.7	1051.1	1051.7
17.5°	1061.6	1063.4	1054.8	1043.6	1041.2	1041.8	1041.2	1043.0	1051.7	1059.7	1059.7
20°	1067.8	1069.0	1057.2	1043.6	1041.2	1041.8	1041.2	1044.9	1056.0	1067.2	1067.8
22.5°	1069.6	1070.9	1059.7	1048.0	1046.1	1046.7	1046.1	1049.8	1060.3	1071.5	1071.5
25°	1070.2	1072.1	1063.4	1054.2	1057.2	1058.5	1057.2	1057.9	1065.9	1075.8	1075.2
27.5°	1079.5	1082.0	1074.0	1065.9	1067.8	1067.2	1069.0	1070.9	1077.1	1087.0	1084.5
30°	1098.7	1100.6	1093.8	1085.7	1084.5	1080.2	1085.7	1091.9	1098.7	1107.4	1105.5
32.5°	1130.3	1134.0	1125.3	1116.7	1111.1	1108.6	1113.0	1123.5	1132.8	1142.1	1138.3
35°	1182.9	1185.4	1177.3	1161.2	1151.3	1151.3	1155.0	1168.7	1183.5	1195.3	1191.0
37.5°	1257.2	1260.3	1246.0	1226.9	1212.0	1212.0	1216.9	1231.2	1253.5	1270.2	1264.0
40°	1347.6	1351.9	1333.9	1314.1	1299.9	1297.4	1303.6	1319.7	1340.7	1361.8	1355.0
42.5°	1456.5	1461.5	1437.9	1420.6	1409.5	1409.5	1412.6	1427.4	1446.6	1472.6	1470.7
45°	1595.8	1604.4	1572.3	1554.9	1544.4	1546.9	1548.7	1561.7	1579.1	1608.8	1607.5
47.5°	1761.7	1770.3	1736.3	1718.3	1716.5	1728.2	1720.8	1730.1	1739.4	1773.4	1763.5
50°	1949.8	1964.7	1941.2	1939.9	1943.7	1965.3	1948.0	1952.9	1942.4	1964.1	1951.1
52.5°	2180.1	2201.8	2197.4	2204.9	2246.3	2290.9	2251.3	2234.0	2194.3	2201.2	2178.3
55°	2459.3	2492.1	2498.3	2542.8	2636.9	2727.9	2643.7	2573.8	2489.6	2474.1	2450.0
57.5°	2776.8	2802.8	2832.5	2923.5	3099.3	3260.9	3099.3	2944.6	2812.1	2780.5	2758.3
60°	3118.5	3150.7	3179.2	3313.5	3574.7	3801.9	3569.8	3324.0	3148.8	3106.1	3069.0
62.5°	3485.6	3527.0	3546.9	3696.0	4000.6	4271.7	4004.9	3707.2	3512.8	3467.0	3429.9
65°	3837.8	3871.8	3894.1	4053.2	4344.1	4615.9	4363.9	4070.5	3870.6	3810.5	3780.8
67.5°	4001.8	4020.4	4074.9	4255.0	4562.0	4872.1	4614.0	4274.2	4050.7	3945.5	3946.7
70°	3761.6	3723.9	3855.1	4143.6	4588.0	5029.4	4647.4	4134.9	3861.3	3690.5	3731.3
72.5°	2906.8	2841.8	3069.6	3562.9	4290.9	4929.1	4320.6	3590.8	3211.4	2864.7	2950.8
75°	1581.5	1507.9	1822.3	2446.3	3421.8	4272.3	3500.4	2516.2	2029.1	1569.8	1671.9
77.5°	446.3	418.4	672.2	1183.5	2058.2	2999.7	2137.4	1209.5	797.3	472.9	525.5
80°	136.8	132.5	179.5	356.5	874.0	1436.7	840.0	360.9	228.4	144.2	152.3
82.5°	81.1	74.3	89.1	130.0	222.8	451.2	216.6	135.6	108.9	73.0	79.2
85°	46.4	43.3	52.6	63.1	74.9	95.9	62.5	64.4	58.2	39.0	40.9
87.5°	19.2	17.3	20.4	19.8	17.3	22.3	16.7	19.8	23.5	15.5	14.2
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)