

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: P882632

Luminaire Tested: **NAV-SB2C-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882632
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-SB2C-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13027 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

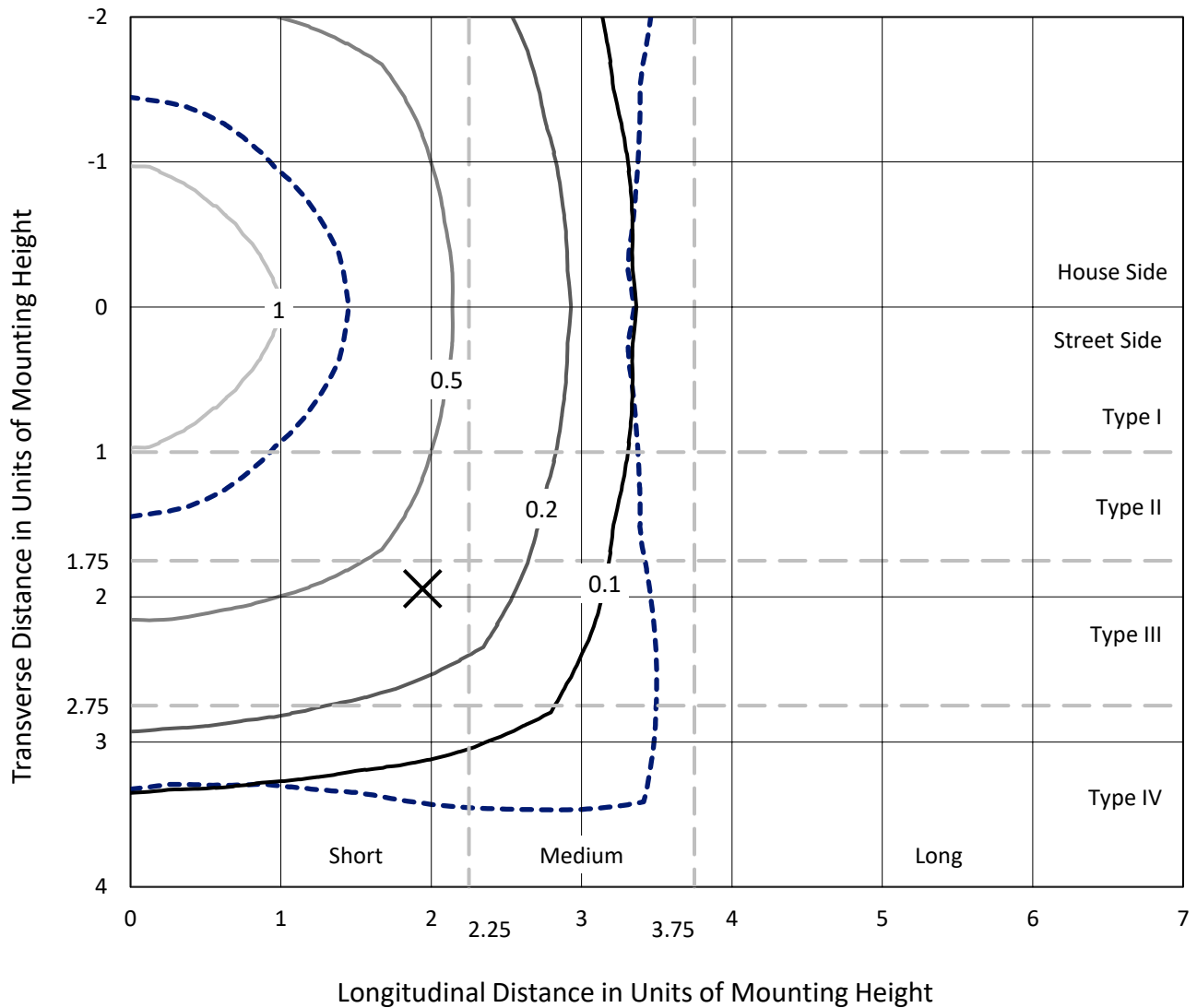
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

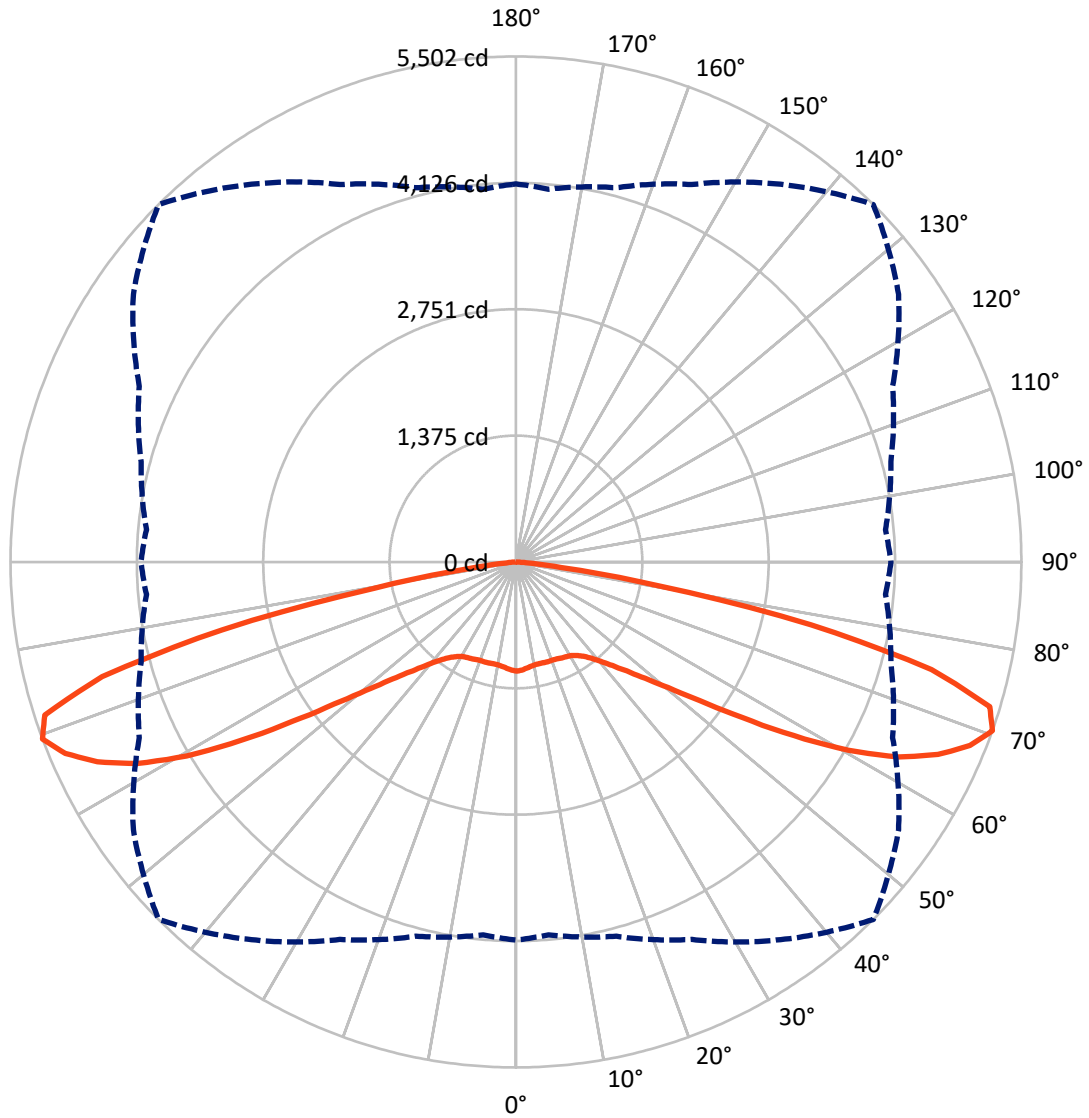
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	6513.5	0.0	6513.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6513.5	0.0	6513.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13027.0	0.0	13027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	0.8
10°-20°	324.6	2.5
20°-30°	540.1	4.1
30°-40°	816.9	6.3
40°-50°	1357.4	10.4
50°-60°	2561.4	19.7
60°-70°	4325.1	33.2
70°-80°	2842.0	21.8
80°-90°	148.9	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°	13027.0	100.0
0°-180°	13027.0	100.0

Coefficient of Utilization



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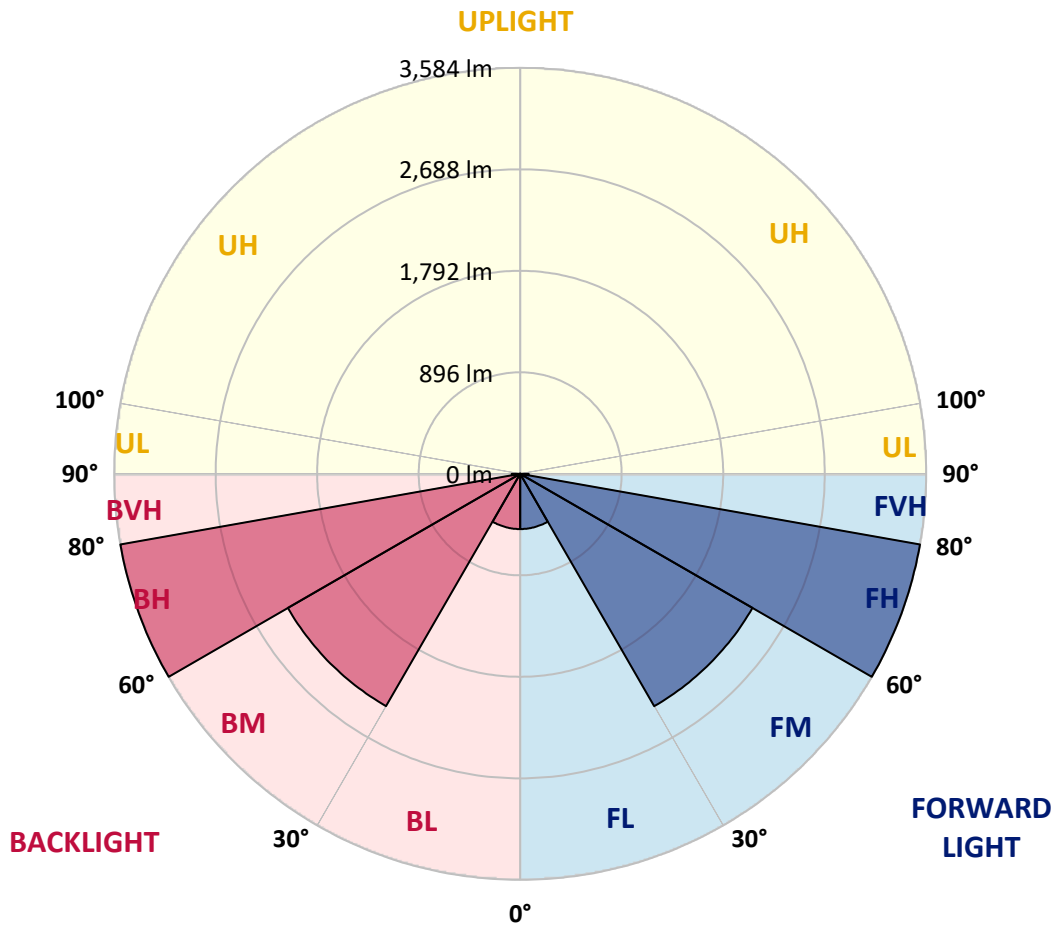
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.6	3.7			
FM (30°-60°)	2367.9	18.2			
FH (60°-80°)	3583.6	27.5			G2/5000
FVH (80°-90°)	74.5	0.6			G1/100
BL (0°-30°)	487.6	3.7	B1/500		
BM (30°-60°)	2367.9	18.2	B2/2500		
BH (60°-80°)	3583.6	27.5	B4/5000		G2/5000
BVH (80°-90°)	74.5	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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1180.9	1184.3	1182.9	1180.2	1180.2	1178.2	1180.2	1181.6	1183.6	1184.9	1184.3
5°	1165.3	1168.0	1167.3	1165.3	1166.0	1163.9	1165.3	1167.3	1168.7	1169.4	1169.4
7.5°	1151.8	1154.5	1153.1	1149.7	1149.7	1147.7	1148.4	1150.4	1152.4	1153.1	1153.1
10°	1148.4	1151.1	1147.0	1141.6	1139.6	1136.9	1137.5	1139.6	1143.6	1145.7	1145.7
12.5°	1149.7	1151.8	1147.7	1139.6	1137.5	1134.8	1134.8	1136.9	1142.3	1145.0	1145.7
15°	1153.8	1155.8	1149.7	1140.9	1138.9	1136.9	1136.2	1138.9	1145.0	1149.7	1150.4
17.5°	1161.2	1163.3	1153.8	1141.6	1138.9	1139.6	1138.9	1140.9	1150.4	1159.2	1159.2
20°	1168.0	1169.4	1156.5	1141.6	1138.9	1139.6	1138.9	1143.0	1155.1	1167.3	1168.0
22.5°	1170.0	1171.4	1159.2	1146.3	1144.3	1145.0	1144.3	1148.4	1159.9	1172.1	1172.1
25°	1170.7	1172.8	1163.3	1153.1	1156.5	1157.9	1156.5	1157.2	1166.0	1176.8	1176.1
27.5°	1180.9	1183.6	1174.8	1166.0	1168.0	1167.3	1169.4	1171.4	1178.2	1189.0	1186.3
30°	1201.9	1203.9	1196.4	1187.6	1186.3	1181.6	1187.6	1194.4	1201.9	1211.3	1209.3
32.5°	1236.4	1240.5	1231.0	1221.5	1215.4	1212.7	1217.4	1229.0	1239.1	1249.3	1245.2
35°	1294.0	1296.7	1287.9	1270.3	1259.4	1259.4	1263.5	1278.4	1294.6	1307.5	1302.8
37.5°	1375.2	1378.6	1363.0	1342.0	1325.8	1325.8	1331.2	1346.8	1371.1	1389.4	1382.7
40°	1474.1	1478.8	1459.2	1437.5	1421.9	1419.2	1426.0	1443.6	1466.6	1489.6	1482.2
42.5°	1593.2	1598.7	1572.9	1554.0	1541.8	1541.8	1545.2	1561.4	1582.4	1610.8	1608.8
45°	1745.6	1755.1	1719.9	1700.9	1689.4	1692.1	1694.1	1708.3	1727.3	1759.8	1758.4
47.5°	1927.0	1936.5	1899.3	1879.7	1877.6	1890.5	1882.4	1892.5	1902.7	1939.9	1929.1
50°	2132.9	2149.1	2123.4	2122.1	2126.1	2149.8	2130.9	2136.3	2124.8	2148.5	2134.2
52.5°	2384.8	2408.5	2403.7	2411.9	2457.2	2506.0	2462.6	2443.7	2400.3	2407.8	2382.7
55°	2690.2	2726.0	2732.8	2781.6	2884.5	2984.0	2891.9	2815.4	2723.3	2706.4	2680.0
57.5°	3037.5	3065.9	3098.4	3198.0	3390.3	3567.0	3390.3	3221.0	3076.1	3041.6	3017.2
60°	3411.3	3446.5	3477.6	3624.6	3910.3	4158.8	3904.9	3636.1	3444.4	3397.7	3357.1
62.5°	3812.8	3858.2	3879.8	4043.0	4376.1	4672.7	4380.9	4055.2	3842.6	3792.5	3751.9
65°	4198.1	4235.3	4259.7	4433.7	4751.9	5049.2	4773.6	4452.7	4234.0	4168.3	4135.8
67.5°	4377.5	4397.8	4457.4	4654.4	4990.3	5329.5	5047.2	4675.4	4431.0	4315.9	4317.2
70°	4114.8	4073.5	4217.0	4532.6	5018.7	5501.5	5083.7	4523.1	4223.8	4036.9	4081.6
72.5°	3179.7	3108.6	3357.8	3897.4	4693.7	5391.8	4726.2	3927.9	3512.8	3133.7	3227.8
75°	1730.0	1649.4	1993.4	2675.9	3743.1	4673.4	3829.0	2752.4	2219.6	1717.1	1828.9
77.5°	488.2	457.7	735.3	1294.6	2251.4	3281.3	2338.1	1323.1	872.1	517.3	574.9
80°	149.6	144.9	196.4	390.0	956.1	1571.6	918.8	394.8	249.9	157.8	166.6
82.5°	88.7	81.3	97.5	142.2	243.8	493.6	237.0	148.3	119.2	79.9	86.7
85°	50.8	47.4	57.6	69.1	81.9	105.0	68.4	70.4	63.6	42.7	44.7
87.5°	21.0	19.0	22.3	21.7	19.0	24.4	18.3	21.7	25.7	16.9	15.6
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)