

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: P882882

Luminaire Tested: **NAV-SB3A-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882882
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-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 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: 10845 lumens
Efficiency: N/A
Efficacy: 128.0 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

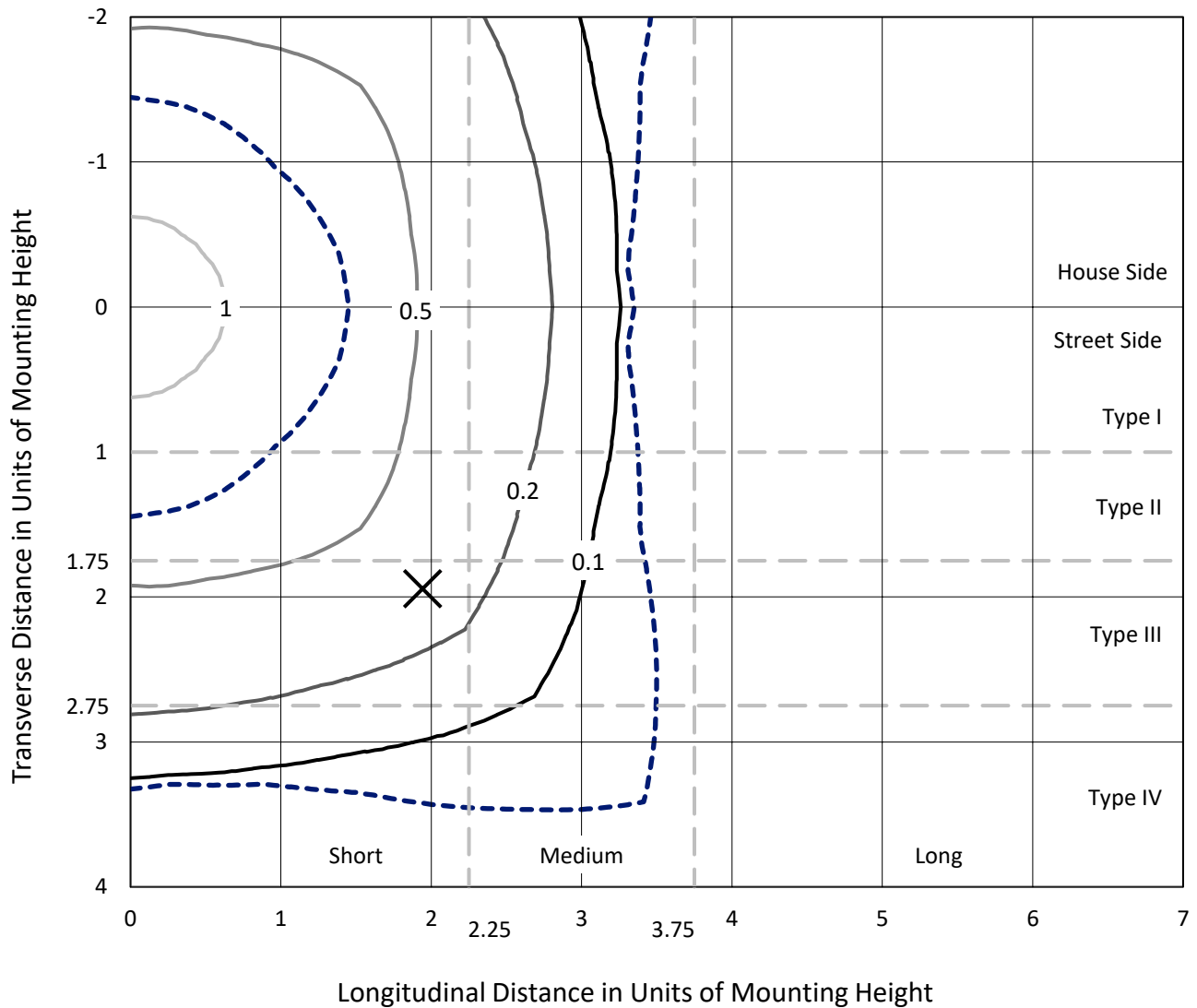
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

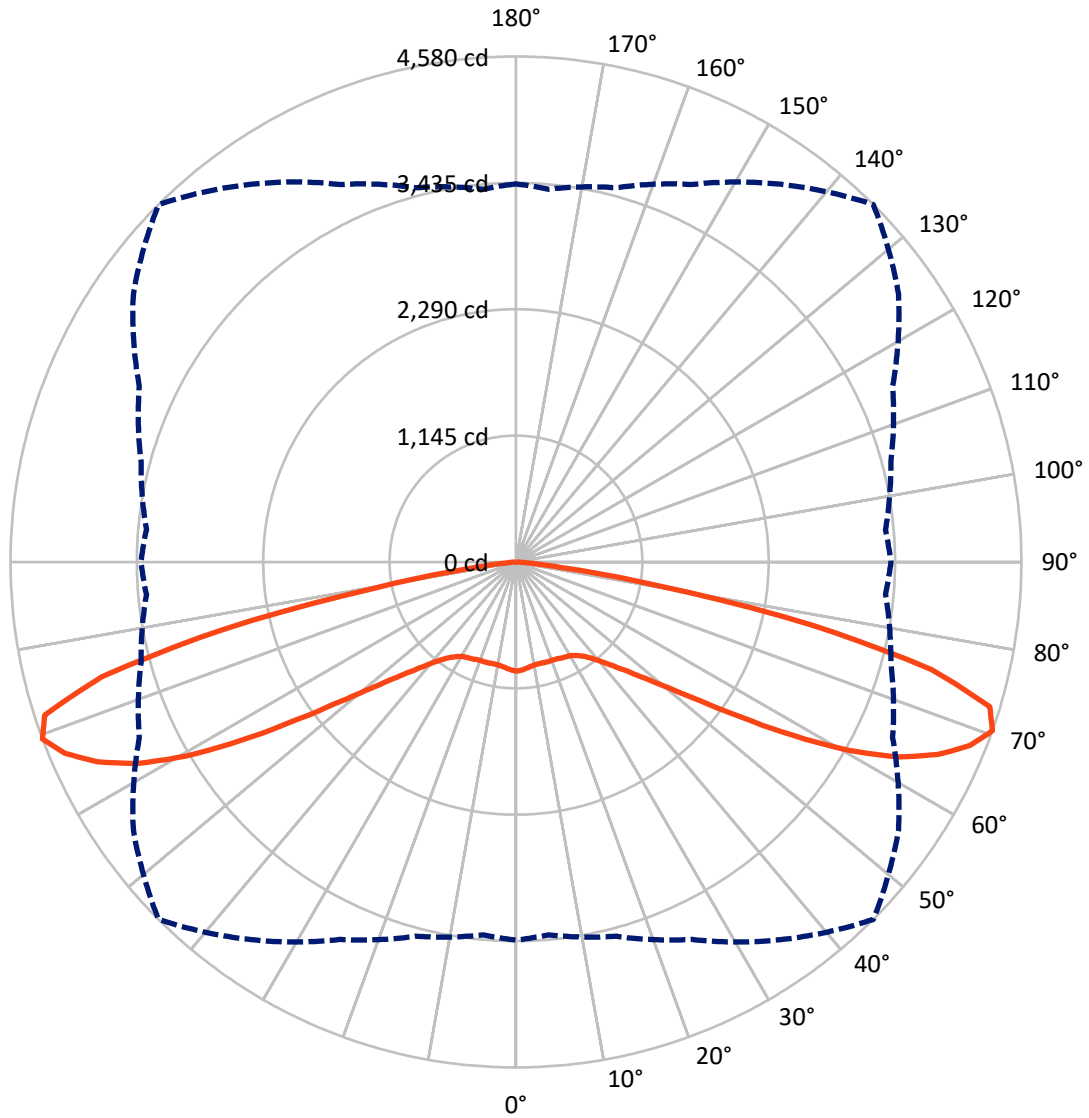
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	5422.5	0.0	5422.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5422.5	0.0	5422.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10845.0	0.0	10845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	0.8
10°-20°	270.2	2.5
20°-30°	449.7	4.1
30°-40°	680.0	6.3
40°-50°	1130.1	10.4
50°-60°	2132.4	19.7
60°-70°	3600.6	33.2
70°-80°	2366.0	21.8
80°-90°	123.9	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°	10845.0	100.0
0°-180°	10845.0	100.0

Coefficient of Utilization



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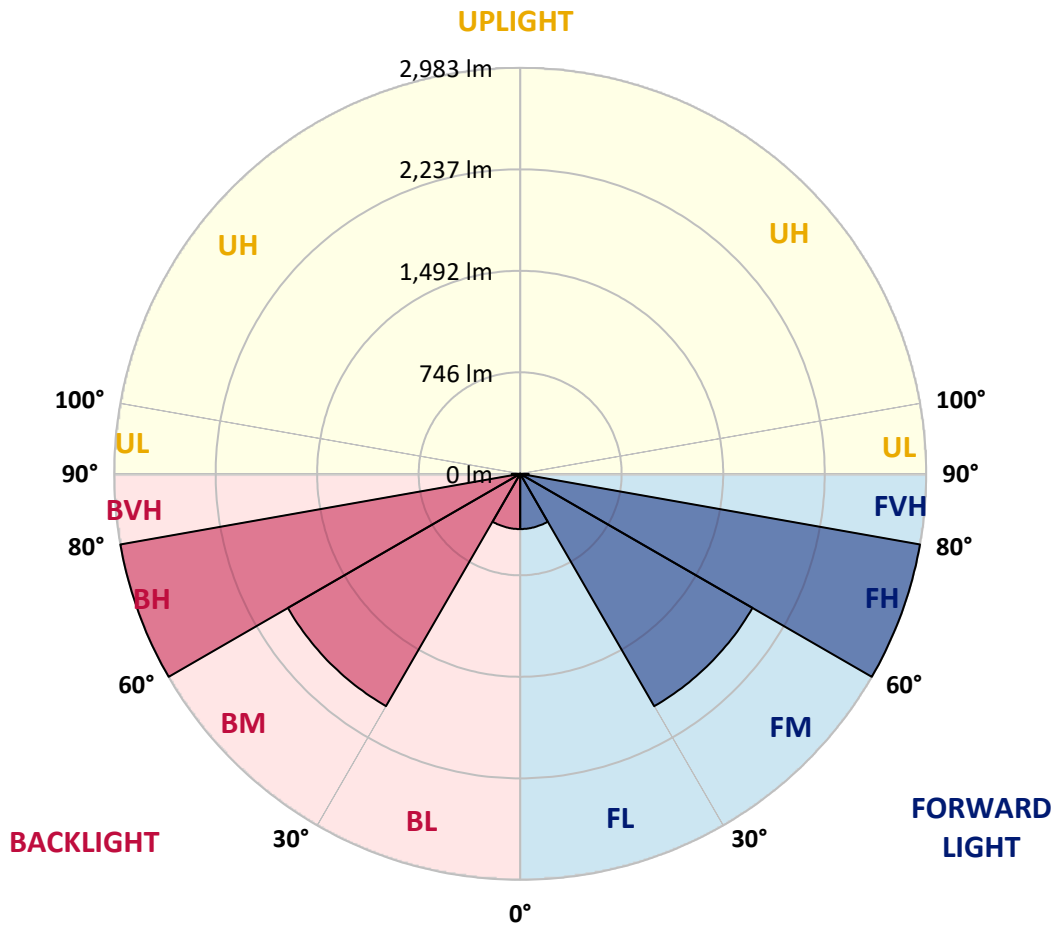
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.0	3.7			
FM (30°-60°)	1971.3	18.2			
FH (60°-80°)	2983.3	27.5			G2/5000
FVH (80°-90°)	62.0	0.6			G1/100
BL (0°-30°)	406.0	3.7	B1/500		
BM (30°-60°)	1971.3	18.2	B2/2500		
BH (60°-80°)	2983.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	62.0	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°	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3
2.5°	983.1	985.9	984.8	982.5	982.5	980.8	982.5	983.6	985.3	986.5	985.9
5°	970.1	972.4	971.8	970.1	970.7	969.0	970.1	971.8	972.9	973.5	973.5
7.5°	958.8	961.1	960.0	957.2	957.2	955.5	956.0	957.7	959.4	960.0	960.0
10°	956.0	958.3	954.9	950.4	948.7	946.4	947.0	948.7	952.1	953.8	953.8
12.5°	957.2	958.8	955.5	948.7	947.0	944.8	944.8	946.4	951.0	953.2	953.8
15°	960.5	962.2	957.2	949.8	948.1	946.4	945.9	948.1	953.2	957.2	957.7
17.5°	966.7	968.4	960.5	950.4	948.1	948.7	948.1	949.8	957.7	965.0	965.0
20°	972.4	973.5	962.8	950.4	948.1	948.7	948.1	951.5	961.7	971.8	972.4
22.5°	974.1	975.2	965.0	954.3	952.6	953.2	952.6	956.0	965.6	975.8	975.8
25°	974.6	976.3	968.4	960.0	962.8	963.9	962.8	963.4	970.7	979.7	979.1
27.5°	983.1	985.3	978.0	970.7	972.4	971.8	973.5	975.2	980.8	989.8	987.6
30°	1000.6	1002.2	996.0	988.7	987.6	983.6	988.7	994.4	1000.6	1008.4	1006.8
32.5°	1029.3	1032.7	1024.8	1016.9	1011.8	1009.6	1013.5	1023.1	1031.6	1040.0	1036.6
35°	1077.2	1079.5	1072.1	1057.5	1048.5	1048.5	1051.9	1064.3	1077.8	1088.5	1084.5
37.5°	1144.9	1147.7	1134.7	1117.2	1103.7	1103.7	1108.2	1121.2	1141.5	1156.7	1151.1
40°	1227.2	1231.1	1214.8	1196.7	1183.8	1181.5	1187.1	1201.8	1221.0	1240.1	1233.9
42.5°	1326.4	1330.9	1309.5	1293.7	1283.5	1283.5	1286.3	1299.9	1317.4	1341.0	1339.3
45°	1453.2	1461.1	1431.8	1416.0	1406.4	1408.7	1410.4	1422.2	1438.0	1465.0	1463.9
47.5°	1604.3	1612.2	1581.2	1564.8	1563.1	1573.8	1567.1	1575.5	1584.0	1615.0	1606.0
50°	1775.6	1789.2	1767.7	1766.6	1770.0	1789.7	1773.9	1778.5	1768.9	1788.6	1776.8
52.5°	1985.3	2005.1	2001.1	2007.9	2045.6	2086.2	2050.2	2034.4	1998.3	2004.5	1983.6
55°	2239.6	2269.4	2275.1	2315.7	2401.3	2484.2	2407.5	2343.8	2267.2	2253.1	2231.1
57.5°	2528.7	2552.4	2579.5	2662.3	2822.4	2969.5	2822.4	2681.5	2560.9	2532.1	2511.8
60°	2839.9	2869.2	2895.1	3017.5	3255.3	3462.2	3250.8	3027.0	2867.5	2828.6	2794.8
62.5°	3174.2	3211.9	3230.0	3365.8	3643.2	3890.0	3647.1	3376.0	3199.0	3157.2	3123.4
65°	3494.9	3525.9	3546.2	3691.1	3956.0	4203.5	3974.0	3706.8	3524.8	3470.1	3443.0
67.5°	3644.3	3661.2	3710.8	3874.8	4154.4	4436.8	4201.8	3892.3	3688.8	3593.0	3594.1
70°	3425.6	3391.2	3510.7	3773.4	4178.1	4580.0	4232.2	3765.5	3516.3	3360.7	3397.9
72.5°	2647.1	2587.9	2795.4	3244.6	3907.5	4488.7	3934.6	3270.0	2924.4	2608.8	2687.1
75°	1440.2	1373.2	1659.5	2227.7	3116.1	3890.6	3187.7	2291.4	1847.8	1429.5	1522.5
77.5°	406.4	381.1	612.2	1077.8	1874.3	2731.7	1946.4	1101.5	726.0	430.7	478.6
80°	124.6	120.6	163.5	324.7	795.9	1308.3	764.9	328.6	208.0	131.3	138.7
82.5°	73.8	67.6	81.2	118.4	202.9	410.9	197.3	123.4	99.2	66.5	72.2
85°	42.3	39.5	47.9	57.5	68.2	87.4	56.9	58.6	53.0	35.5	37.2
87.5°	17.5	15.8	18.6	18.0	15.8	20.3	15.2	18.0	21.4	14.1	13.0
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)