

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: P882952

Luminaire Tested: **NAV-SB3A-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882952
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 11058 lumens
Efficiency: N/A
Efficacy: 130.6 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

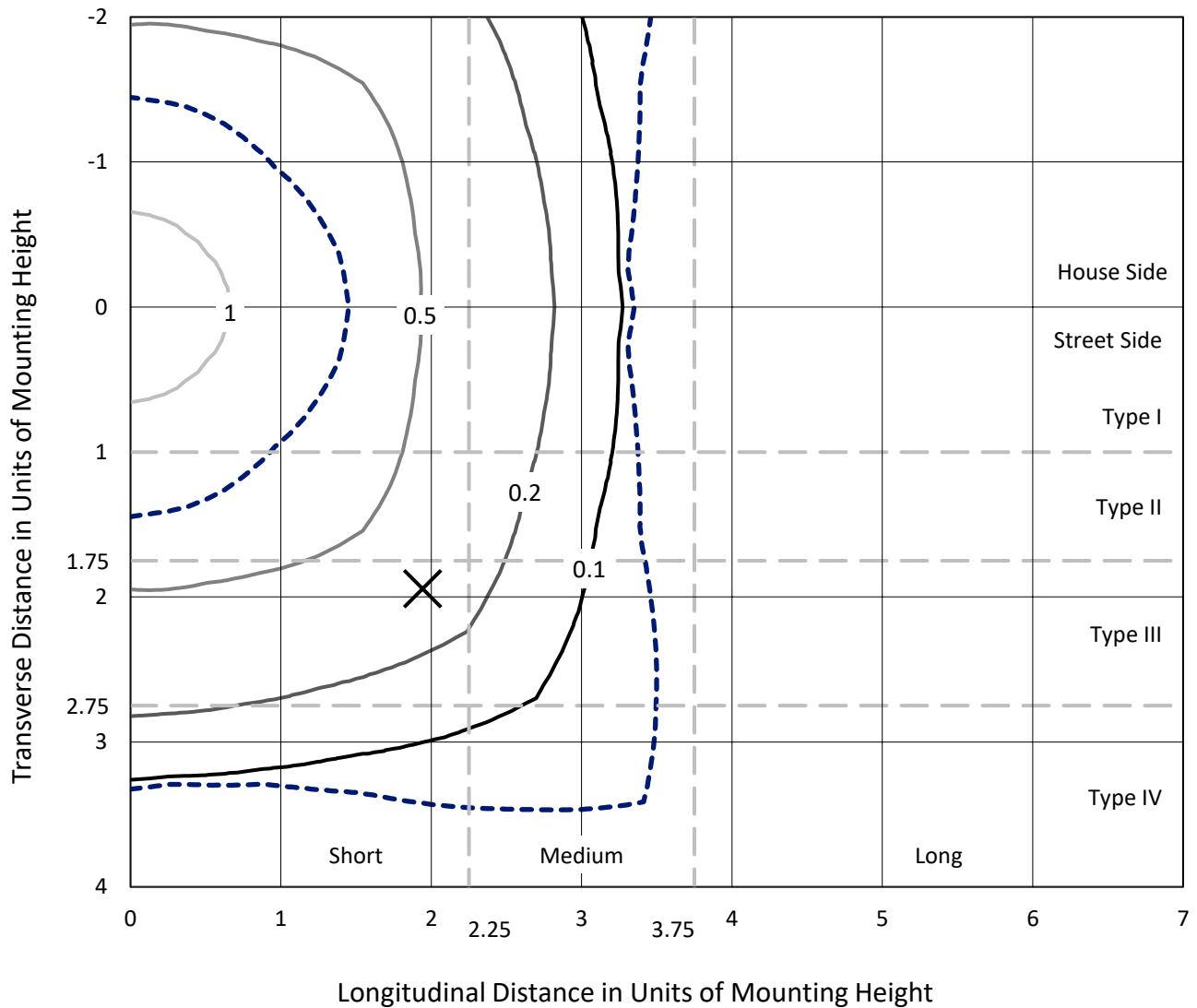
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

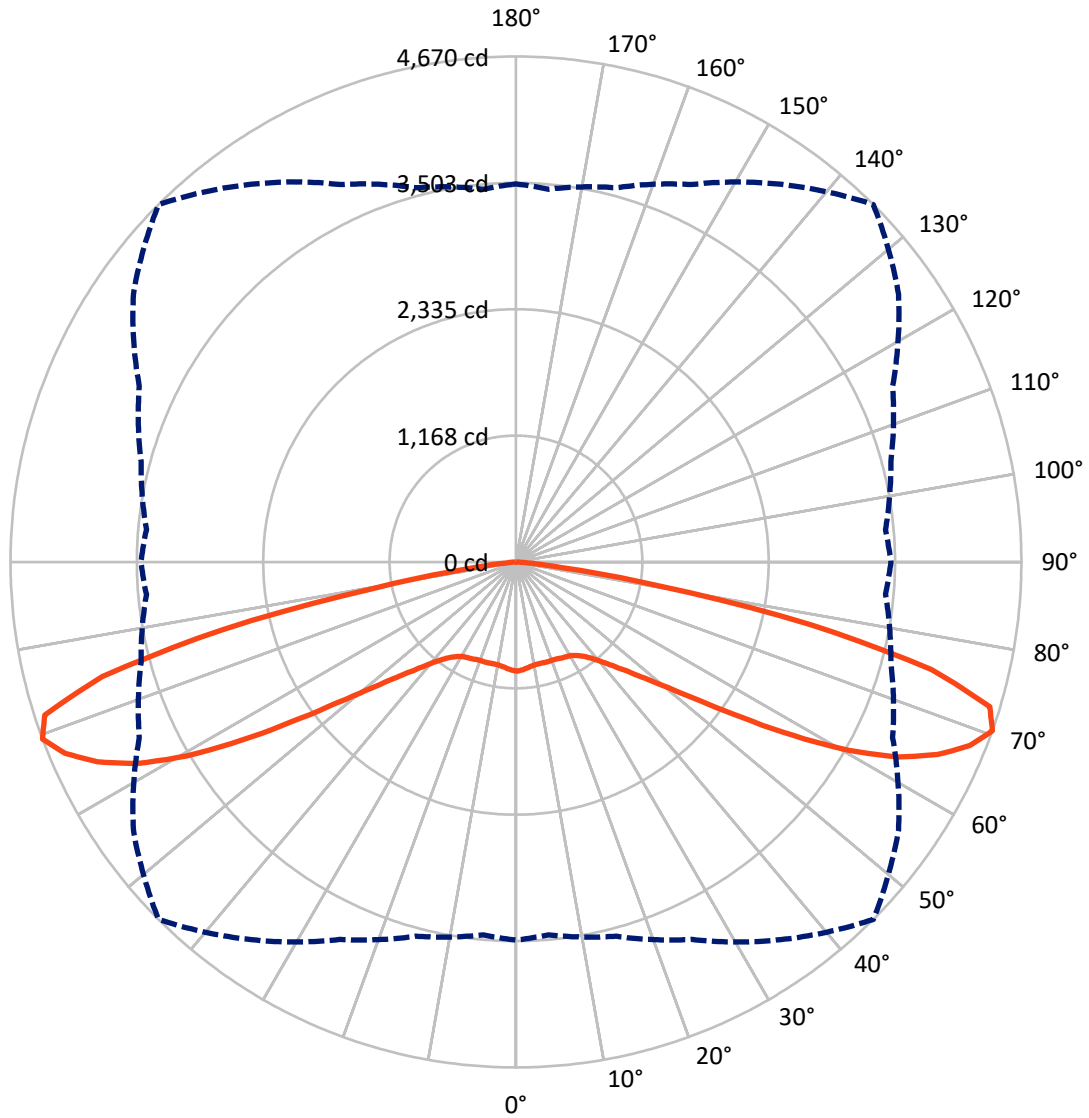
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	5529.0	0.0	5529.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5529.0	0.0	5529.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11058.0	0.0	11058.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	0.8
10°-20°	275.5	2.5
20°-30°	458.5	4.1
30°-40°	693.4	6.3
40°-50°	1152.3	10.4
50°-60°	2174.3	19.7
60°-70°	3671.4	33.2
70°-80°	2412.5	21.8
80°-90°	126.4	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°	11058.0	100.0
0°-180°	11058.0	100.0



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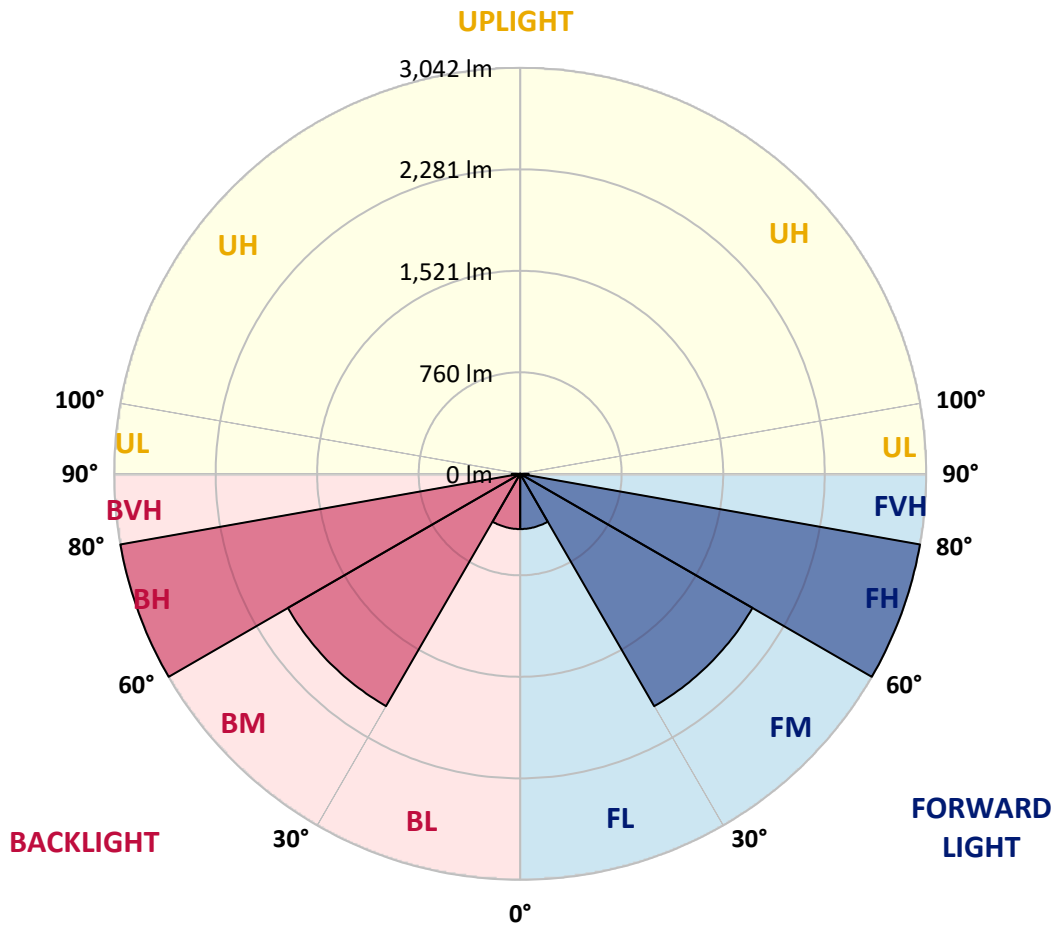
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.9	3.7			
FM (30°-60°)	2010.0	18.2			
FH (60°-80°)	3041.9	27.5			G2/5000
FVH (80°-90°)	63.2	0.6			G1/100
BL (0°-30°)	413.9	3.7	B1/500		
BM (30°-60°)	2010.0	18.2	B2/2500		
BH (60°-80°)	3041.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	63.2	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°	1008.7	1008.7	1008.7	1008.7	1008.7	1008.7	1008.7	1008.7	1008.7	1008.7	1008.7
2.5°	1002.4	1005.3	1004.1	1001.8	1001.8	1001.8	1001.8	1003.0	1004.7	1005.8	1005.3
5°	989.2	991.5	990.9	989.2	989.7	989.7	989.2	990.9	992.0	992.6	992.6
7.5°	977.7	980.0	978.8	976.0	976.0	974.2	974.8	976.5	978.2	978.8	978.8
10°	974.8	977.1	973.7	969.1	967.3	965.0	965.6	967.3	970.8	972.5	972.5
12.5°	976.0	977.7	974.2	967.3	965.6	963.3	963.3	965.0	969.6	971.9	972.5
15°	979.4	981.1	976.0	968.5	966.8	965.0	964.5	966.8	971.9	976.0	976.5
17.5°	985.7	987.4	979.4	969.1	966.8	967.3	966.8	968.5	976.5	984.0	984.0
20°	991.5	992.6	981.7	969.1	966.8	967.3	966.8	970.2	980.5	990.9	991.5
22.5°	993.2	994.3	984.0	973.1	971.4	971.9	971.4	974.8	984.6	994.9	994.9
25°	993.8	995.5	987.4	978.8	981.7	982.8	981.7	982.3	989.7	998.9	998.4
27.5°	1002.4	1004.7	997.2	989.7	991.5	990.9	992.6	994.3	1000.1	1009.3	1007.0
30°	1020.2	1021.9	1015.6	1008.1	1007.0	1003.0	1008.1	1013.9	1020.2	1028.3	1026.5
32.5°	1049.5	1053.0	1044.9	1036.9	1031.7	1029.4	1033.4	1043.2	1051.8	1060.4	1057.0
35°	1098.4	1100.7	1093.2	1078.3	1069.1	1069.1	1072.5	1085.2	1099.0	1109.9	1105.8
37.5°	1167.3	1170.2	1157.0	1139.2	1125.4	1125.4	1130.0	1143.2	1163.9	1179.4	1173.7
40°	1251.3	1255.3	1238.6	1220.2	1207.0	1204.7	1210.5	1225.4	1244.9	1264.5	1258.2
42.5°	1352.4	1357.0	1335.2	1319.1	1308.7	1308.7	1311.6	1325.4	1343.2	1367.4	1365.6
45°	1481.7	1489.8	1459.9	1443.8	1434.0	1436.3	1438.1	1450.1	1466.2	1493.8	1492.7
47.5°	1635.8	1643.8	1612.2	1595.5	1593.8	1604.7	1597.8	1606.5	1615.1	1646.7	1637.5
50°	1810.5	1824.3	1802.5	1801.3	1804.8	1824.9	1808.8	1813.4	1803.6	1823.7	1811.7
52.5°	2024.3	2044.4	2040.4	2047.3	2085.8	2127.2	2090.4	2074.3	2037.5	2043.9	2022.6
55°	2283.5	2314.0	2319.8	2361.1	2448.5	2533.0	2454.8	2389.9	2311.7	2297.3	2274.9
57.5°	2578.4	2602.5	2630.1	2714.6	2877.8	3027.9	2877.8	2734.2	2611.2	2581.8	2561.2
60°	2895.7	2925.6	2952.0	3076.7	3319.3	3530.2	3314.7	3086.5	2923.8	2884.2	2849.7
62.5°	3236.5	3275.0	3293.4	3431.9	3714.7	3966.5	3718.7	3442.3	3261.8	3219.3	3184.8
65°	3563.5	3595.2	3615.8	3763.6	4033.7	4286.0	4052.1	3779.7	3594.0	3538.3	3510.7
67.5°	3715.9	3733.1	3783.7	3950.9	4236.0	4524.0	4284.3	3968.8	3761.3	3663.6	3664.7
70°	3492.8	3457.8	3579.6	3847.5	4260.2	4670.0	4315.3	3839.4	3585.4	3426.7	3464.7
72.5°	2699.1	2638.7	2850.3	3308.3	3984.3	4576.9	4011.9	3334.2	2981.9	2660.0	2739.9
75°	1468.5	1400.1	1692.1	2271.5	3177.3	3967.0	3250.3	2336.4	1884.1	1457.6	1552.4
77.5°	414.4	388.5	624.2	1099.0	1911.1	2785.3	1984.7	1123.1	740.3	439.1	488.0
80°	127.0	123.0	166.7	331.1	811.6	1334.0	780.0	335.1	212.1	133.9	141.4
82.5°	75.3	69.0	82.8	120.7	206.9	419.0	201.2	125.9	101.2	67.8	73.6
85°	43.1	40.2	48.9	58.6	69.5	89.1	58.1	59.8	54.0	36.2	37.9
87.5°	17.8	16.1	19.0	18.4	16.1	20.7	15.5	18.4	21.8	14.4	13.2
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)