

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: P881552

Luminaire Tested: **NAV-SB1A-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881552
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-SB1A-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4541 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

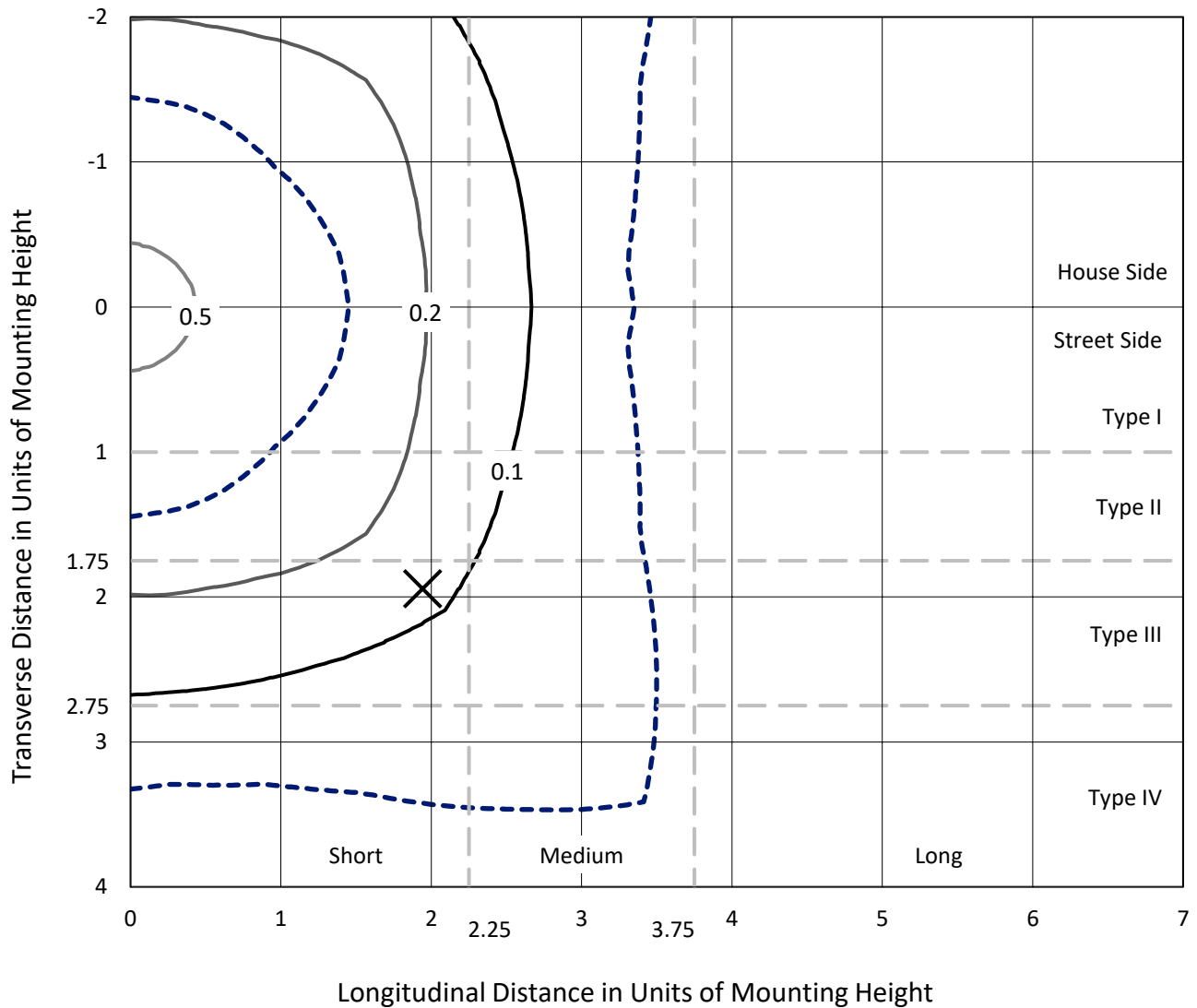
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

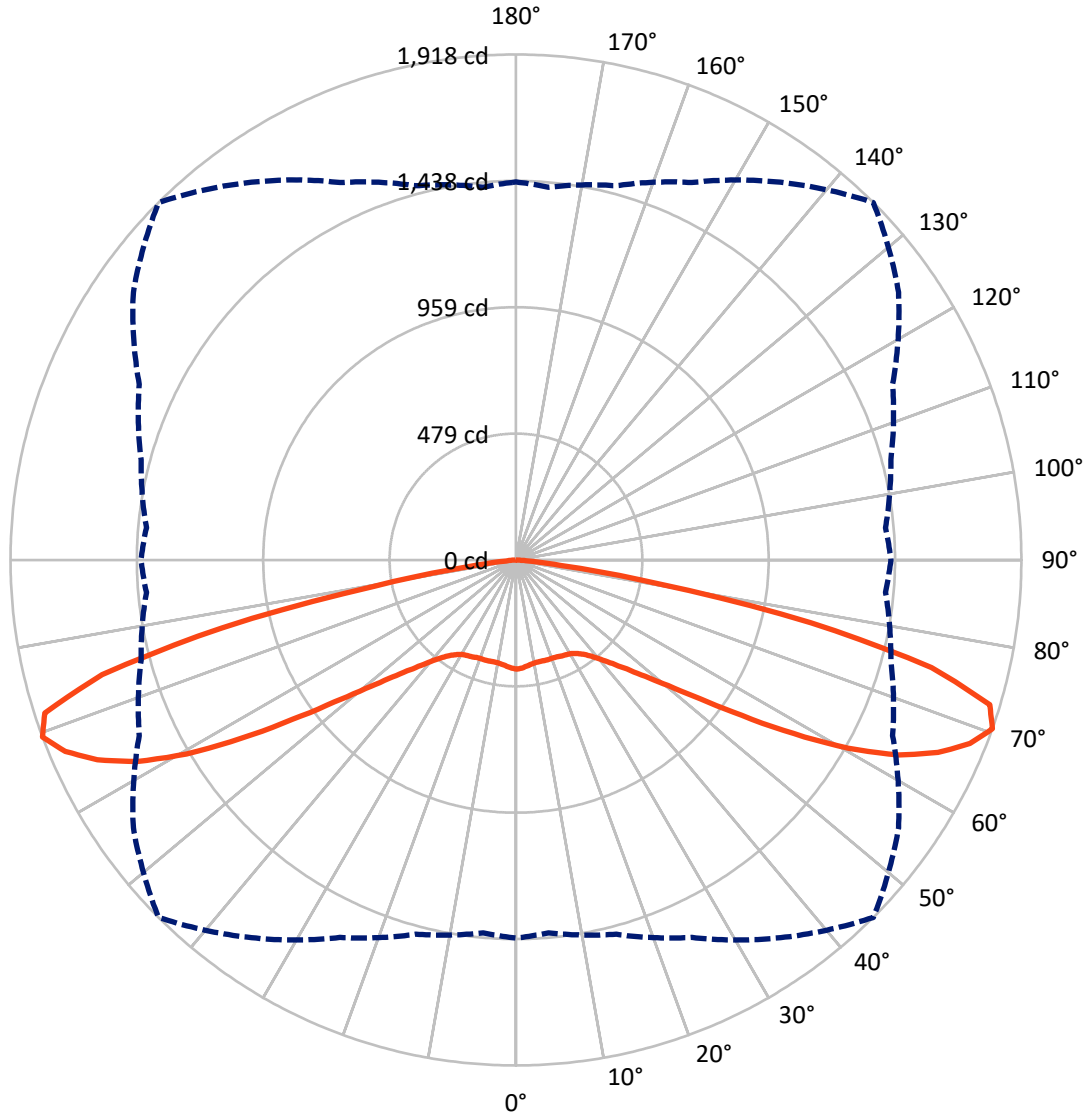
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2270.5	0.0	2270.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2270.5	0.0	2270.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4541.0	0.0	4541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	0.8
10°-20°	113.1	2.5
20°-30°	188.3	4.1
30°-40°	284.7	6.3
40°-50°	473.2	10.4
50°-60°	892.9	19.7
60°-70°	1507.7	33.2
70°-80°	990.7	21.8
80°-90°	51.9	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°	4541.0	100.0
0°-180°	4541.0	100.0

Coefficient of Utilization



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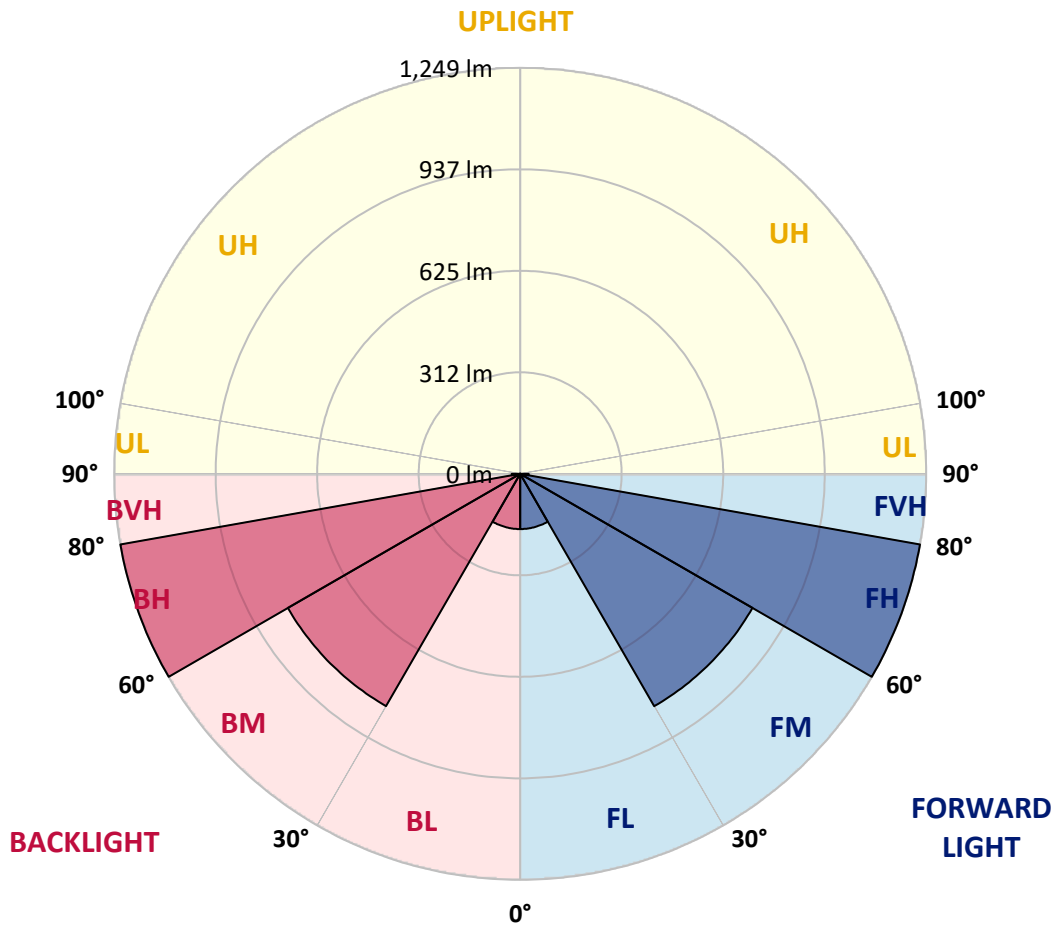
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.0	3.7			
FM (30°-60°)	825.4	18.2			
FH (60°-80°)	1249.2	27.5			G1/1800
FVH (80°-90°)	26.0	0.6			G1/100
BL (0°-30°)	170.0	3.7	B1/500		
BM (30°-60°)	825.4	18.2	B1/1000		
BH (60°-80°)	1249.2	27.5	B3/2500		G1/1800
BVH (80°-90°)	26.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2
2.5°	411.6	412.8	412.3	411.4	411.4	410.7	411.4	411.9	412.6	413.1	412.8
5°	406.2	407.1	406.9	406.2	406.4	405.7	406.2	406.9	407.4	407.6	407.6
7.5°	401.5	402.4	402.0	400.8	400.8	400.1	400.3	401.0	401.7	402.0	402.0
10°	400.3	401.2	399.8	397.9	397.2	396.3	396.5	397.2	398.7	399.4	399.4
12.5°	400.8	401.5	400.1	397.2	396.5	395.6	395.6	396.3	398.2	399.1	399.4
15°	402.2	402.9	400.8	397.7	397.0	396.3	396.1	397.0	399.1	400.8	401.0
17.5°	404.8	405.5	402.2	397.9	397.0	397.2	397.0	397.7	401.0	404.1	404.1
20°	407.1	407.6	403.1	397.9	397.0	397.2	397.0	398.4	402.7	406.9	407.1
22.5°	407.9	408.3	404.1	399.6	398.9	399.1	398.9	400.3	404.3	408.6	408.6
25°	408.1	408.8	405.5	402.0	403.1	403.6	403.1	403.4	406.4	410.2	410.0
27.5°	411.6	412.6	409.5	406.4	407.1	406.9	407.6	408.3	410.7	414.5	413.5
30°	419.0	419.7	417.1	414.0	413.5	411.9	414.0	416.4	419.0	422.3	421.5
32.5°	431.0	432.4	429.1	425.8	423.7	422.7	424.4	428.4	431.9	435.5	434.1
35°	451.1	452.0	448.9	442.8	439.0	439.0	440.4	445.6	451.3	455.8	454.1
37.5°	479.4	480.6	475.1	467.8	462.1	462.1	464.0	469.5	478.0	484.3	482.0
40°	513.8	515.5	508.6	501.1	495.7	494.7	497.1	503.2	511.2	519.3	516.7
42.5°	555.4	557.3	548.3	541.7	537.4	537.4	538.6	544.3	551.6	561.5	560.8
45°	608.5	611.8	599.5	592.9	588.9	589.8	590.5	595.5	602.1	613.4	613.0
47.5°	671.7	675.0	662.1	655.2	654.5	659.0	656.2	659.7	663.2	676.2	672.4
50°	743.5	749.2	740.2	739.7	741.1	749.4	742.8	744.7	740.7	748.9	744.0
52.5°	831.3	839.6	837.9	840.7	856.5	873.5	858.4	851.8	836.7	839.3	830.6
55°	937.7	950.3	952.6	969.6	1005.5	1040.2	1008.1	981.4	949.3	943.4	934.2
57.5°	1058.8	1068.7	1080.1	1114.8	1181.8	1243.4	1181.8	1122.8	1072.3	1060.2	1051.7
60°	1189.1	1201.4	1212.2	1263.5	1363.1	1449.7	1361.2	1267.5	1200.7	1184.4	1170.2
62.5°	1329.1	1344.9	1352.4	1409.3	1525.5	1628.8	1527.1	1413.6	1339.5	1322.0	1307.8
65°	1463.4	1476.4	1484.9	1545.5	1656.5	1760.1	1664.0	1552.1	1475.9	1453.0	1441.7
67.5°	1525.9	1533.0	1553.8	1622.5	1739.5	1857.8	1759.4	1629.8	1544.6	1504.4	1504.9
70°	1434.3	1419.9	1470.0	1580.0	1749.4	1917.7	1772.1	1576.7	1472.3	1407.2	1422.8
72.5°	1108.4	1083.6	1170.5	1358.6	1636.2	1879.5	1647.5	1369.2	1224.5	1092.3	1125.1
75°	603.1	575.0	694.9	932.8	1304.8	1629.1	1334.7	959.5	773.7	598.6	637.5
77.5°	170.2	159.6	256.3	451.3	784.8	1143.8	815.0	461.2	304.0	180.3	200.4
80°	52.2	50.5	68.4	136.0	333.3	547.8	320.3	137.6	87.1	55.0	58.1
82.5°	30.9	28.3	34.0	49.6	85.0	172.1	82.6	51.7	41.5	27.9	30.2
85°	17.7	16.5	20.1	24.1	28.6	36.6	23.8	24.5	22.2	14.9	15.6
87.5°	7.3	6.6	7.8	7.6	6.6	8.5	6.4	7.6	9.0	5.9	5.4
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)