

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: P882922

Luminaire Tested: **NAV-SB3A-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882922
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-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 14673 lumens
Efficiency: N/A
Efficacy: 173.2 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

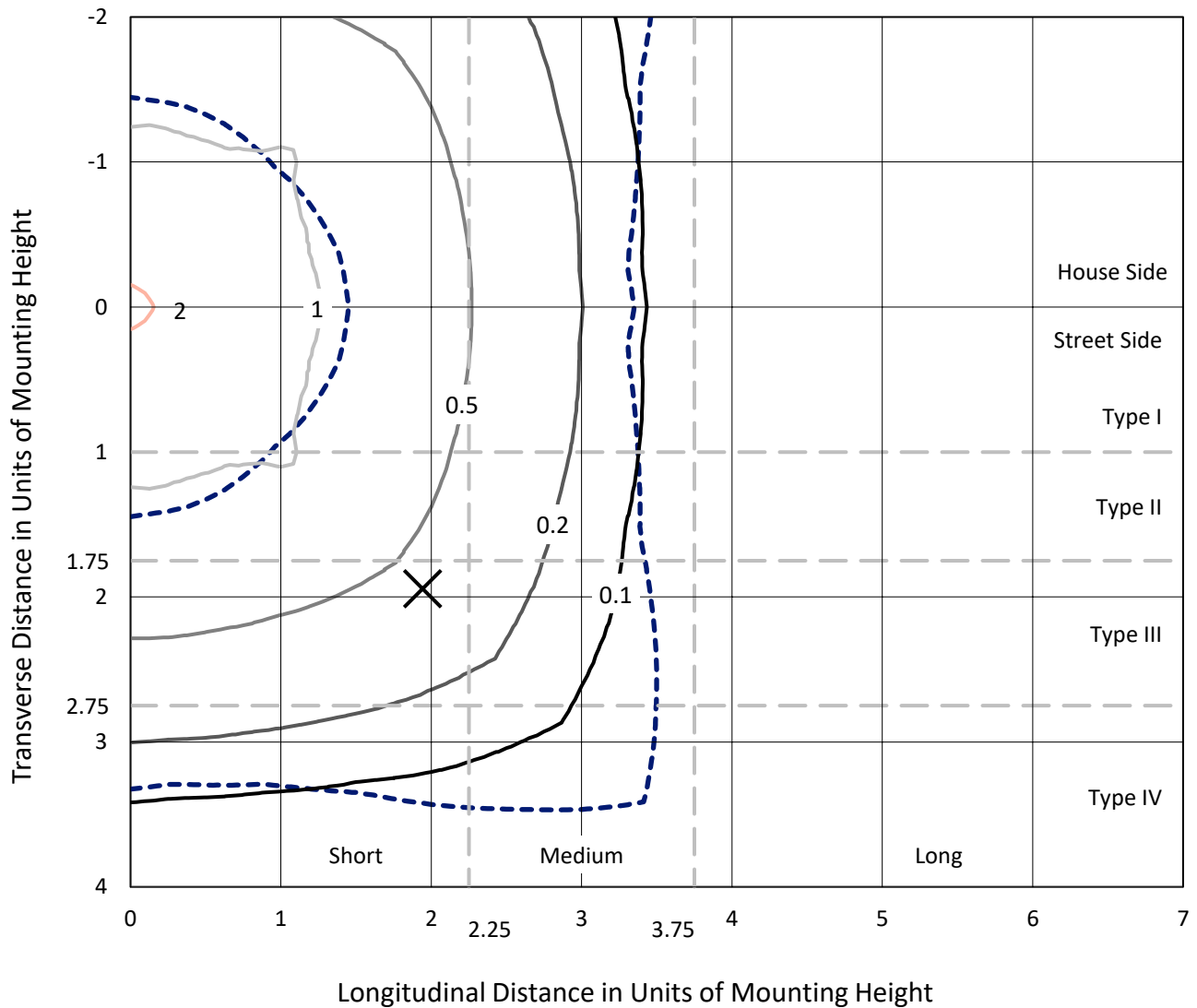
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882922
 CATALOG NUMBER: NAV-SB3A-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

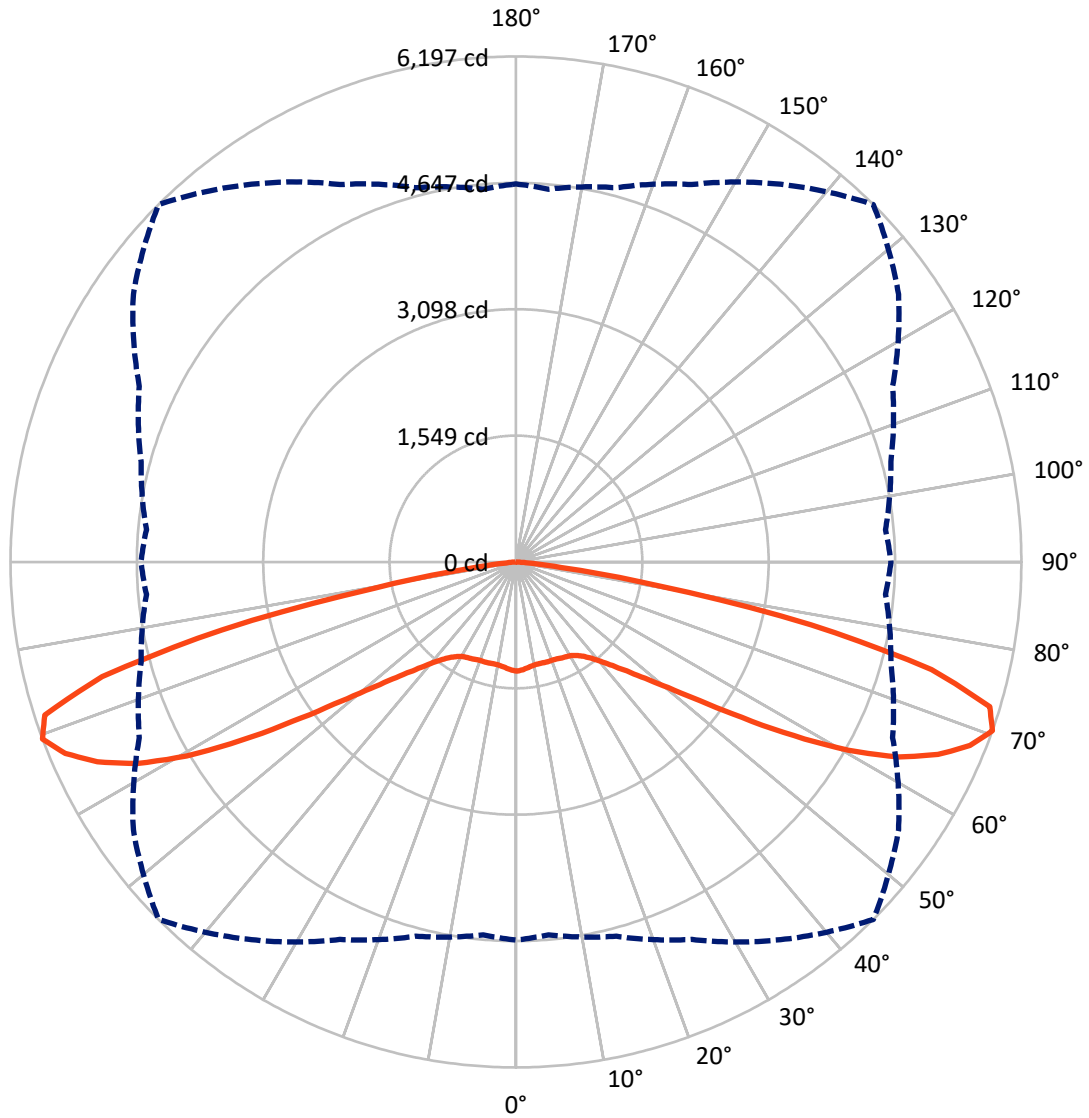
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

REPORT NUMBER: P882922
CATALOG NUMBER: NAV-SB3A-740-U-5WQ

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	7336.5	0.0	7336.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7336.5	0.0	7336.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14673.0	0.0	14673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	0.8
10°-20°	365.6	2.5
20°-30°	608.4	4.1
30°-40°	920.1	6.3
40°-50°	1529.0	10.4
50°-60°	2885.1	19.7
60°-70°	4871.6	33.2
70°-80°	3201.1	21.8
80°-90°	167.7	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°	14673.0	100.0
0°-180°	14673.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882922

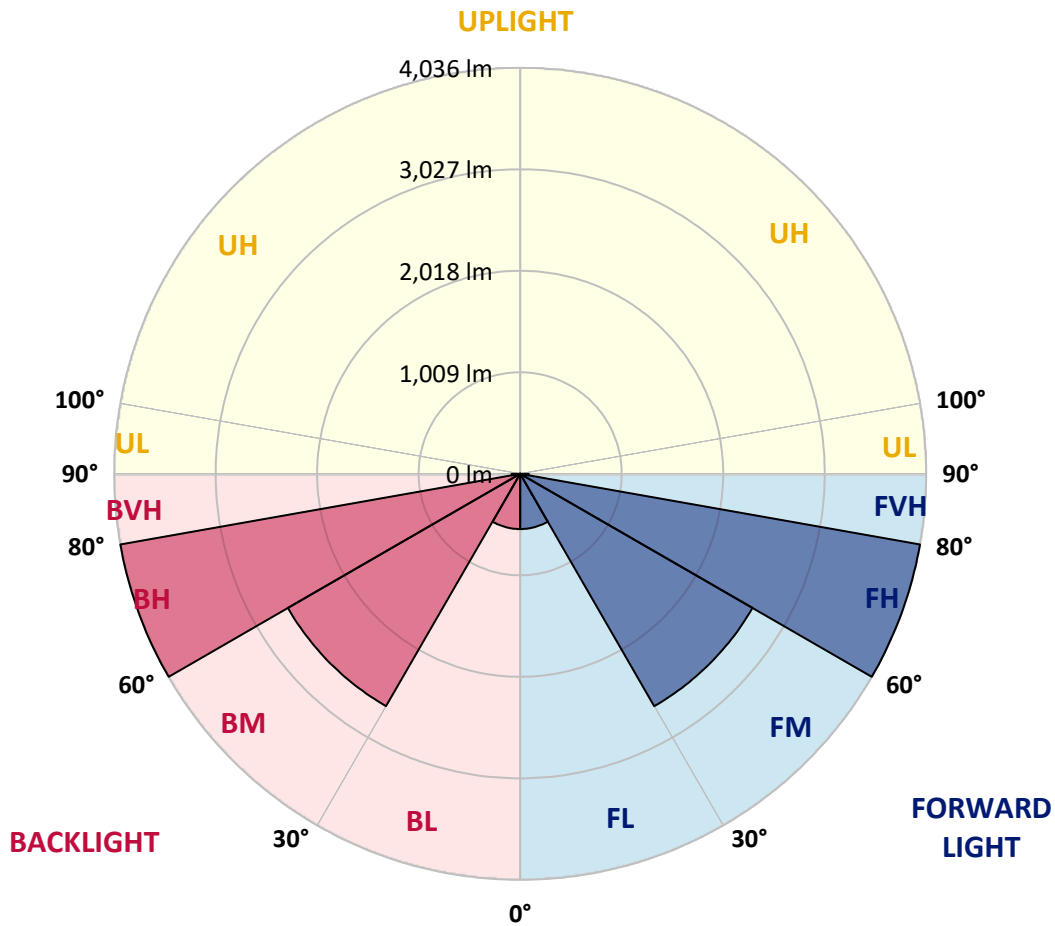
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.2	3.7			
FM (30°-60°)	2667.1	18.2			
FH (60°-80°)	4036.4	27.5			G2/5000
FVH (80°-90°)	83.9	0.6			G1/100
BL (0°-30°)	549.2	3.7	B2/1000		
BM (30°-60°)	2667.1	18.2	B3/5000		
BH (60°-80°)	4036.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	83.9	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°	1338.5	1338.5	1338.5	1338.5	1338.5	1338.5	1338.5	1338.5	1338.5	1338.5	1338.5
2.5°	1330.1	1333.9	1332.4	1329.3	1329.3	1327.0	1329.3	1330.8	1333.1	1334.7	1333.9
5°	1312.5	1315.6	1314.8	1312.5	1313.3	1311.0	1312.5	1314.8	1316.4	1317.1	1317.1
7.5°	1297.3	1300.3	1298.8	1295.0	1295.0	1292.7	1293.5	1295.8	1298.1	1298.8	1298.8
10°	1293.5	1296.5	1292.0	1285.8	1283.6	1280.5	1281.3	1283.6	1288.1	1290.4	1290.4
12.5°	1295.0	1297.3	1292.7	1283.6	1281.3	1278.2	1278.2	1280.5	1286.6	1289.7	1290.4
15°	1299.6	1301.9	1295.0	1285.1	1282.8	1280.5	1279.7	1282.8	1289.7	1295.0	1295.8
17.5°	1308.0	1310.3	1299.6	1285.8	1282.8	1283.6	1282.8	1285.1	1295.8	1305.7	1305.7
20°	1315.6	1317.1	1302.6	1285.8	1282.8	1283.6	1282.8	1287.4	1301.1	1314.8	1315.6
22.5°	1317.9	1319.4	1305.7	1291.2	1288.9	1289.7	1288.9	1293.5	1306.4	1320.2	1320.2
25°	1318.6	1320.9	1310.3	1298.8	1302.6	1304.2	1302.6	1303.4	1313.3	1325.5	1324.7
27.5°	1330.1	1333.1	1323.2	1313.3	1315.6	1314.8	1317.1	1319.4	1327.0	1339.2	1336.2
30°	1353.7	1356.0	1347.6	1337.7	1336.2	1330.8	1337.7	1345.3	1353.7	1364.4	1362.1
32.5°	1392.6	1397.2	1386.5	1375.8	1369.0	1365.9	1371.3	1384.2	1395.7	1407.1	1402.5
35°	1457.4	1460.5	1450.6	1430.8	1418.6	1418.6	1423.1	1439.9	1458.2	1472.7	1467.4
37.5°	1549.0	1552.8	1535.2	1511.6	1493.3	1493.3	1499.4	1516.9	1544.4	1565.0	1557.4
40°	1660.3	1665.7	1643.5	1619.1	1601.6	1598.5	1606.2	1626.0	1651.9	1677.9	1669.5
42.5°	1794.5	1800.6	1771.7	1750.3	1736.6	1736.6	1740.4	1758.7	1782.3	1814.4	1812.1
45°	1966.1	1976.8	1937.2	1915.8	1902.8	1905.9	1908.2	1924.2	1945.6	1982.2	1980.6
47.5°	2170.5	2181.2	2139.3	2117.2	2114.9	2129.4	2120.2	2131.6	2143.1	2185.0	2172.8
50°	2402.4	2420.7	2391.7	2390.2	2394.8	2421.5	2400.1	2406.2	2393.2	2419.9	2403.9
52.5°	2686.1	2712.8	2707.5	2716.6	2767.7	2822.6	2773.8	2752.4	2703.6	2712.0	2683.8
55°	3030.1	3070.5	3078.1	3133.0	3248.9	3361.1	3257.3	3171.2	3067.4	3048.4	3018.6
57.5°	3421.3	3453.3	3489.9	3602.1	3818.7	4017.7	3818.7	3628.0	3464.8	3425.9	3398.4
60°	3842.3	3882.0	3917.0	4082.5	4404.4	4684.3	4398.3	4095.5	3879.7	3827.0	3781.3
62.5°	4294.6	4345.7	4370.1	4553.9	4929.1	5263.1	4934.4	4567.6	4328.1	4271.7	4225.9
65°	4728.5	4770.5	4797.9	4993.9	5352.4	5687.2	5376.8	5015.3	4768.9	4695.0	4658.3
67.5°	4930.6	4953.5	5020.6	5242.5	5620.8	6002.9	5684.9	5266.2	4990.9	4861.2	4862.7
70°	4634.7	4588.2	4749.9	5105.3	5652.9	6196.6	5726.1	5094.6	4757.5	4547.0	4597.3
72.5°	3581.5	3501.4	3782.0	4389.9	5286.8	6073.1	5323.4	4424.2	3956.7	3529.6	3635.6
75°	1948.6	1857.8	2245.3	3014.0	4216.0	5263.9	4312.9	3100.2	2500.0	1934.1	2060.0
77.5°	549.9	515.6	828.3	1458.2	2535.9	3695.9	2633.5	1490.2	982.3	582.7	647.5
80°	168.5	163.2	221.2	439.3	1076.9	1770.1	1034.9	444.6	281.4	177.7	187.6
82.5°	99.9	91.5	109.8	160.2	274.6	556.0	266.9	167.0	134.2	90.0	97.6
85°	57.2	53.4	64.8	77.8	92.3	118.2	77.0	79.3	71.7	48.0	50.3
87.5°	23.6	21.4	25.2	24.4	21.4	27.5	20.6	24.4	29.0	19.1	17.5
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)