

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: P883062

Luminaire Tested: **NAV-SB3B-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883062
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-SB3B-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15483 lumens
Efficiency: N/A
Efficacy: 141.8 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

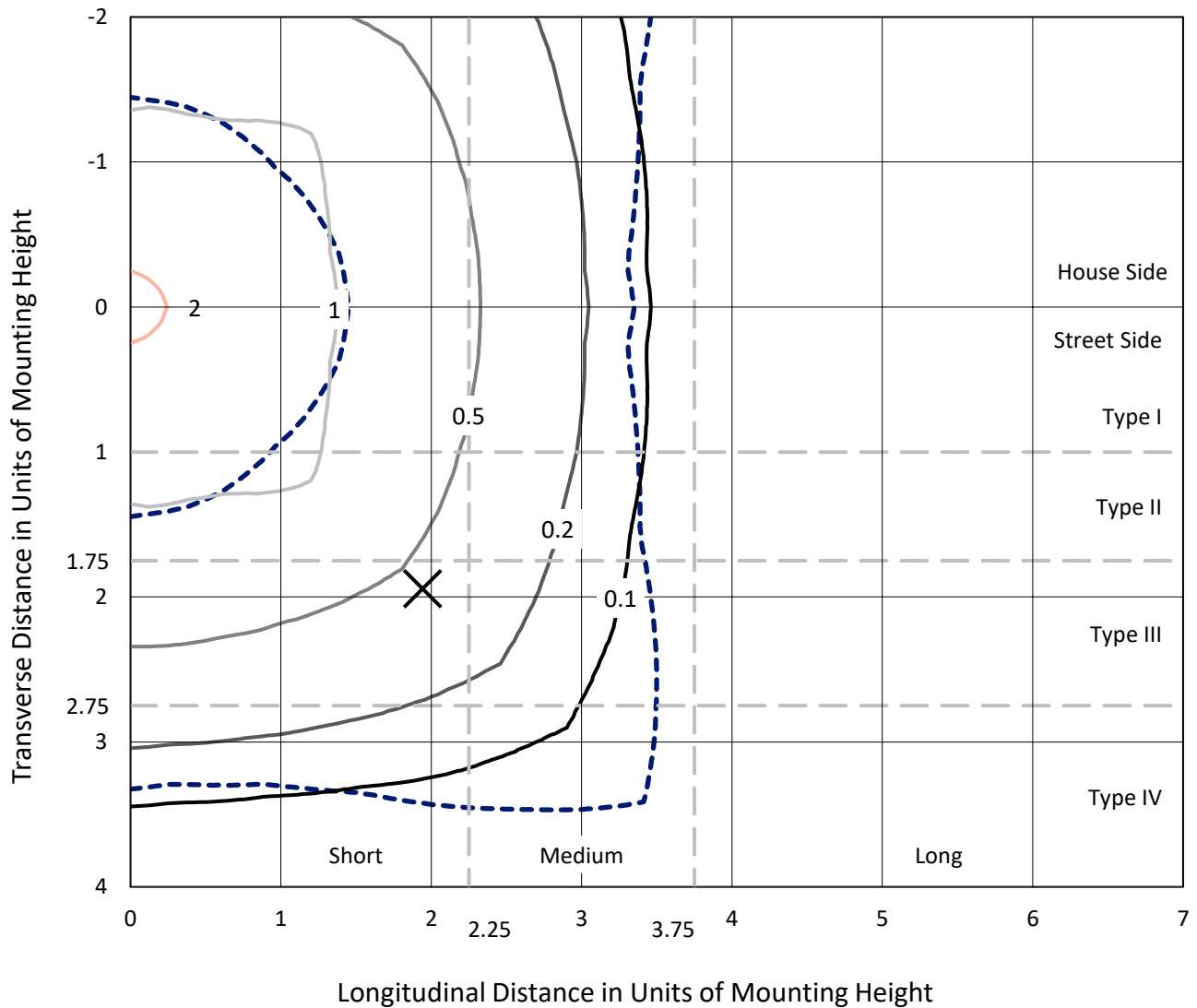
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883062
 CATALOG NUMBER: NAV-SB3B-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

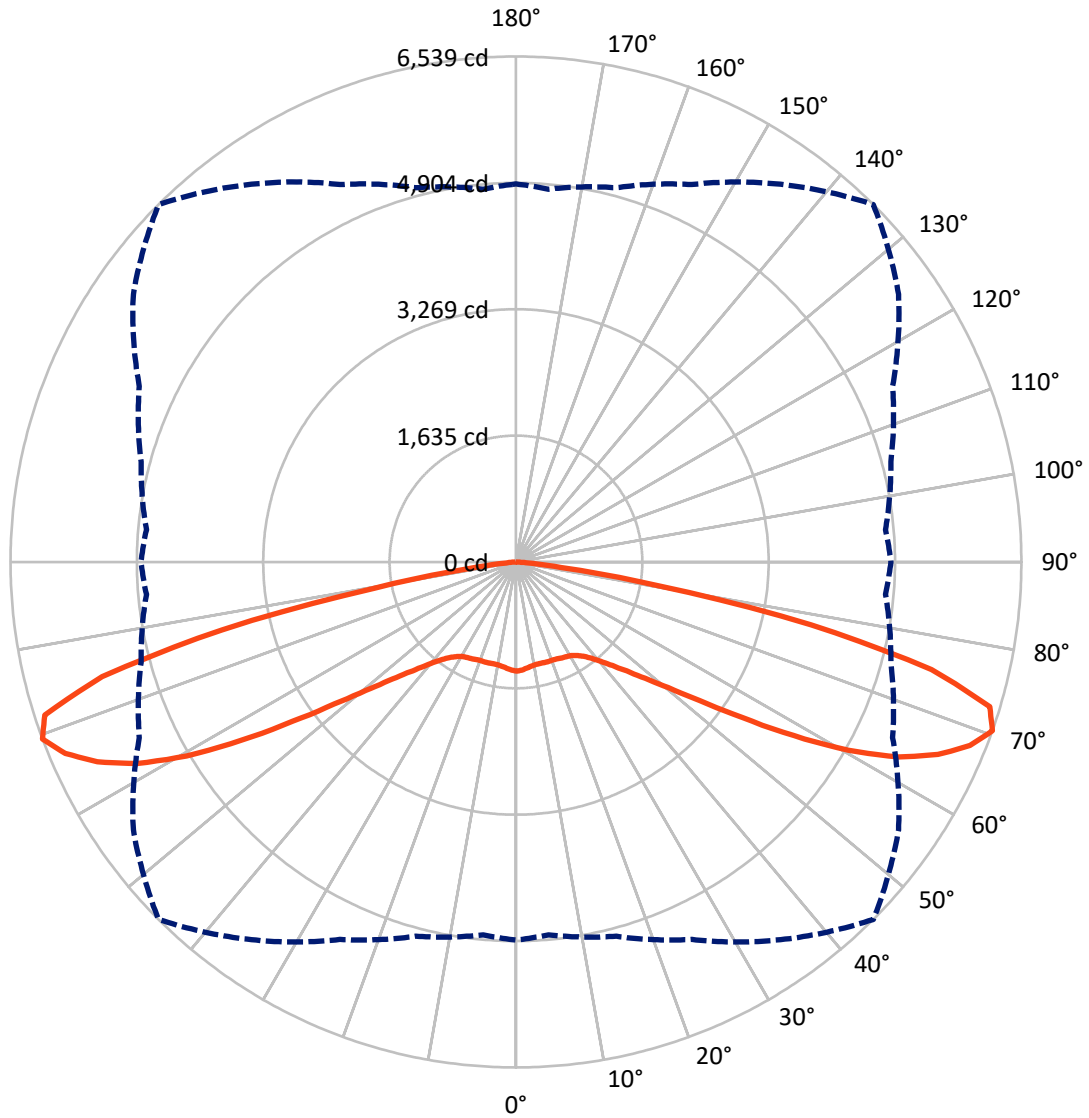
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

REPORT NUMBER: P883062
CATALOG NUMBER: NAV-SB3B-727-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P883062

CATALOG NUMBER: NAV-SB3B-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7741.5	0.0	7741.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7741.5	0.0	7741.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15483.0	0.0	15483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	0.8
10°-20°	385.8	2.5
20°-30°	642.0	4.1
30°-40°	970.9	6.3
40°-50°	1613.3	10.4
50°-60°	3044.3	19.7
60°-70°	5140.5	33.2
70°-80°	3377.8	21.8
80°-90°	177.0	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°	15483.0	100.0
0°-180°	15483.0	100.0

Coefficient of Utilization

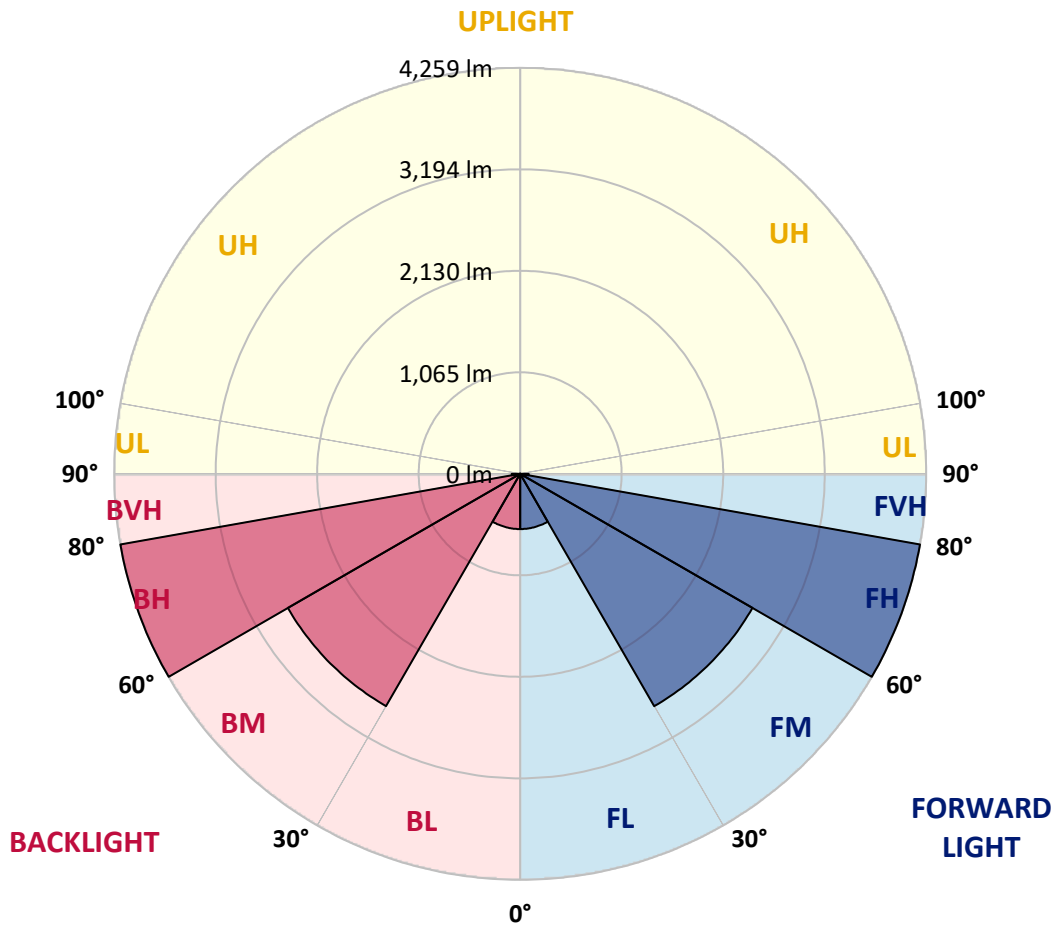


REPORT NUMBER: P883062
 CATALOG NUMBER: NAV-SB3B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.6	3.7			
FM (30°-60°)	2814.3	18.2			
FH (60°-80°)	4259.2	27.5			G2/5000
FVH (80°-90°)	88.5	0.6			G1/100
BL (0°-30°)	579.6	3.7	B2/1000		
BM (30°-60°)	2814.3	18.2	B3/5000		
BH (60°-80°)	4259.2	27.5	B4/5000		G2/5000
BVH (80°-90°)	88.5	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



REPORT NUMBER: P883062
 CATALOG NUMBER: NAV-SB3B-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1403.5	1407.5	1405.9	1402.7	1402.7	1400.3	1402.7	1404.3	1406.7	1408.3	1407.5
5°	1385.0	1388.2	1387.4	1385.0	1385.8	1383.4	1385.0	1387.4	1389.0	1389.8	1389.8
7.5°	1368.9	1372.1	1370.5	1366.5	1366.5	1364.1	1364.9	1367.3	1369.7	1370.5	1370.5
10°	1364.9	1368.1	1363.3	1356.8	1354.4	1351.2	1352.0	1354.4	1359.2	1361.7	1361.7
12.5°	1366.5	1368.9	1364.1	1354.4	1352.0	1348.8	1348.8	1351.2	1357.6	1360.9	1361.7
15°	1371.3	1373.7	1366.5	1356.0	1353.6	1351.2	1350.4	1353.6	1360.9	1366.5	1367.3
17.5°	1380.2	1382.6	1371.3	1356.8	1353.6	1354.4	1353.6	1356.0	1367.3	1377.8	1377.8
20°	1388.2	1389.8	1374.5	1356.8	1353.6	1354.4	1353.6	1358.4	1372.9	1387.4	1388.2
22.5°	1390.6	1392.2	1377.8	1362.5	1360.1	1360.9	1360.1	1364.9	1378.6	1393.0	1393.0
25°	1391.4	1393.9	1382.6	1370.5	1374.5	1376.1	1374.5	1375.3	1385.8	1398.7	1397.9
27.5°	1403.5	1406.7	1396.3	1385.8	1388.2	1387.4	1389.8	1392.2	1400.3	1413.2	1409.9
30°	1428.5	1430.9	1422.0	1411.6	1409.9	1404.3	1411.6	1419.6	1428.5	1439.7	1437.3
32.5°	1469.5	1474.3	1463.1	1451.8	1444.6	1441.3	1447.0	1460.6	1472.7	1484.8	1480.0
35°	1537.9	1541.1	1530.7	1509.7	1496.9	1496.9	1501.7	1519.4	1538.7	1554.0	1548.4
37.5°	1634.5	1638.5	1620.0	1595.0	1575.7	1575.7	1582.2	1600.7	1629.6	1651.4	1643.3
40°	1752.0	1757.6	1734.3	1708.5	1690.0	1686.8	1694.8	1715.8	1743.1	1770.5	1761.6
42.5°	1893.6	1900.0	1869.5	1846.9	1832.4	1832.4	1836.5	1855.8	1880.7	1914.5	1912.1
45°	2074.7	2085.9	2044.1	2021.6	2007.9	2011.1	2013.5	2030.4	2053.0	2091.6	2090.0
47.5°	2290.4	2301.6	2257.4	2234.0	2231.6	2246.9	2237.2	2249.3	2261.4	2305.6	2292.8
50°	2535.0	2554.3	2523.7	2522.1	2527.0	2555.1	2532.6	2539.0	2525.4	2553.5	2536.6
52.5°	2834.4	2862.5	2856.9	2866.6	2920.5	2978.4	2926.9	2904.4	2852.9	2861.7	2832.0
55°	3197.3	3240.0	3248.0	3306.0	3428.3	3546.6	3437.1	3346.2	3236.8	3216.6	3185.3
57.5°	3610.2	3644.0	3682.6	3800.9	4029.5	4239.5	4029.5	3828.3	3656.0	3615.0	3586.0
60°	4054.4	4096.3	4133.3	4307.9	4647.5	4942.9	4641.1	4321.6	4093.8	4038.3	3990.0
62.5°	4531.6	4585.5	4611.3	4805.2	5201.2	5553.7	5206.8	4819.7	4567.0	4507.5	4459.2
65°	4989.5	5033.8	5062.8	5269.6	5647.8	6001.1	5673.6	5292.1	5032.2	4954.1	4915.5
67.5°	5202.8	5226.9	5297.8	5531.9	5931.1	6334.3	5998.7	5556.9	5266.4	5129.6	5131.2
70°	4890.6	4841.5	5012.1	5387.1	5964.9	6538.7	6042.2	5375.8	5020.1	4798.0	4851.1
72.5°	3779.2	3694.7	3990.8	4632.2	5578.6	6408.3	5617.3	4668.4	4175.1	3724.4	3836.3
75°	2056.2	1960.4	2369.2	3180.4	4448.7	5554.5	4550.9	3271.4	2638.0	2040.9	2173.7
77.5°	580.2	544.0	874.0	1538.7	2675.8	3899.9	2778.9	1572.5	1036.5	614.8	683.2
80°	177.9	172.2	233.4	463.5	1136.3	1867.9	1092.1	469.2	297.0	187.5	198.0
82.5°	105.4	96.6	115.9	169.0	289.7	586.7	281.7	176.2	141.6	95.0	103.0
85°	60.4	56.3	68.4	82.1	97.4	124.7	81.3	83.7	75.6	50.7	53.1
87.5°	24.9	22.5	26.6	25.8	22.5	29.0	21.7	25.8	30.6	20.1	18.5
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)