

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: P883082

Luminaire Tested: **NAV-SB3B-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883082
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 17085 lumens
Efficiency: N/A
Efficacy: 156.5 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

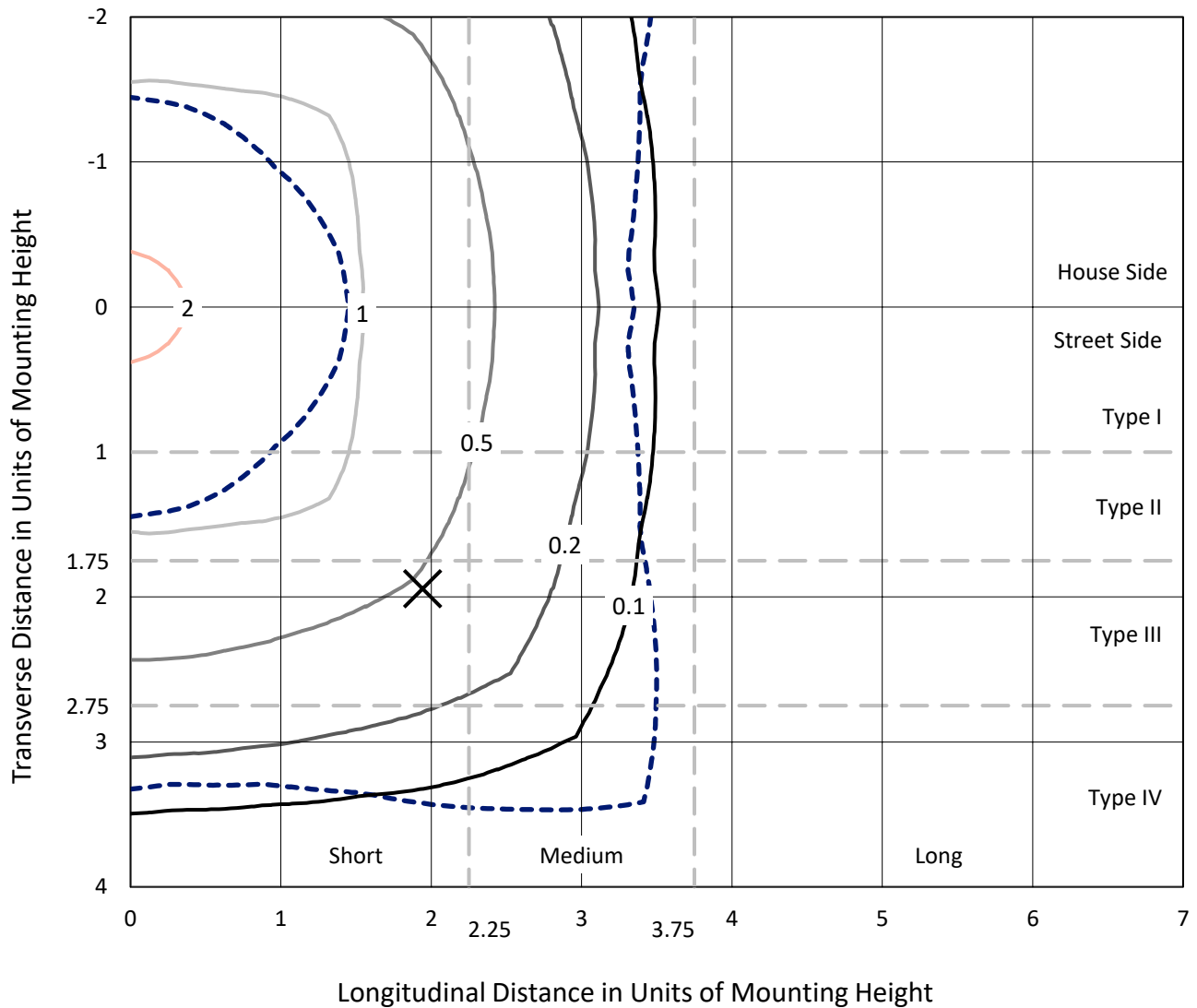
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883082
 CATALOG NUMBER: NAV-SB3B-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

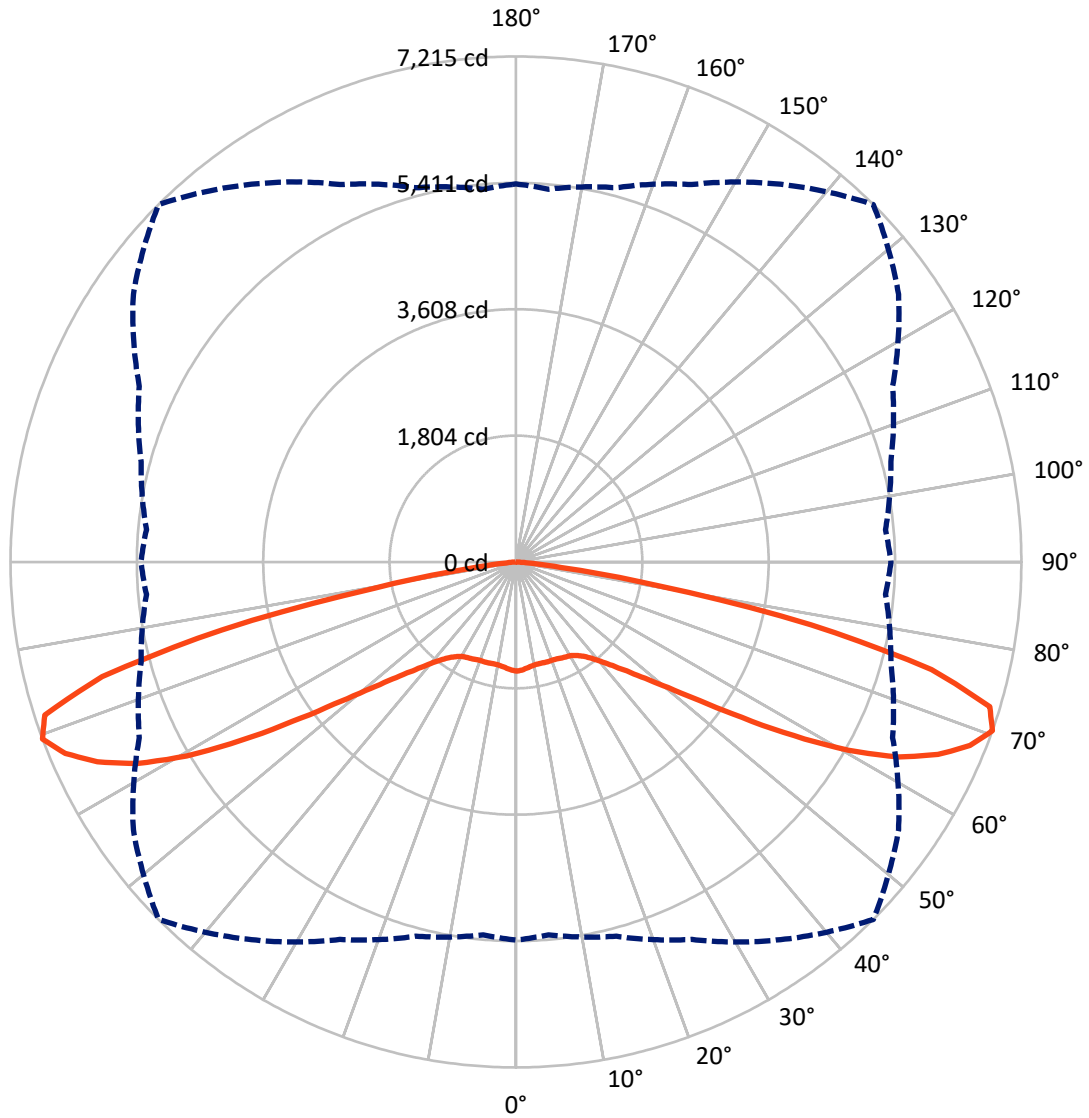
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

REPORT NUMBER: P883082
CATALOG NUMBER: NAV-SB3B-735-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P883082
 CATALOG NUMBER: NAV-SB3B-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8542.5	0.0	8542.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8542.5	0.0	8542.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17085.0	0.0	17085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	0.8
10°-20°	425.7	2.5
20°-30°	708.4	4.1
30°-40°	1071.3	6.3
40°-50°	1780.3	10.4
50°-60°	3359.3	19.7
60°-70°	5672.4	33.2
70°-80°	3727.3	21.8
80°-90°	195.3	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°	17085.0	100.0
0°-180°	17085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883082

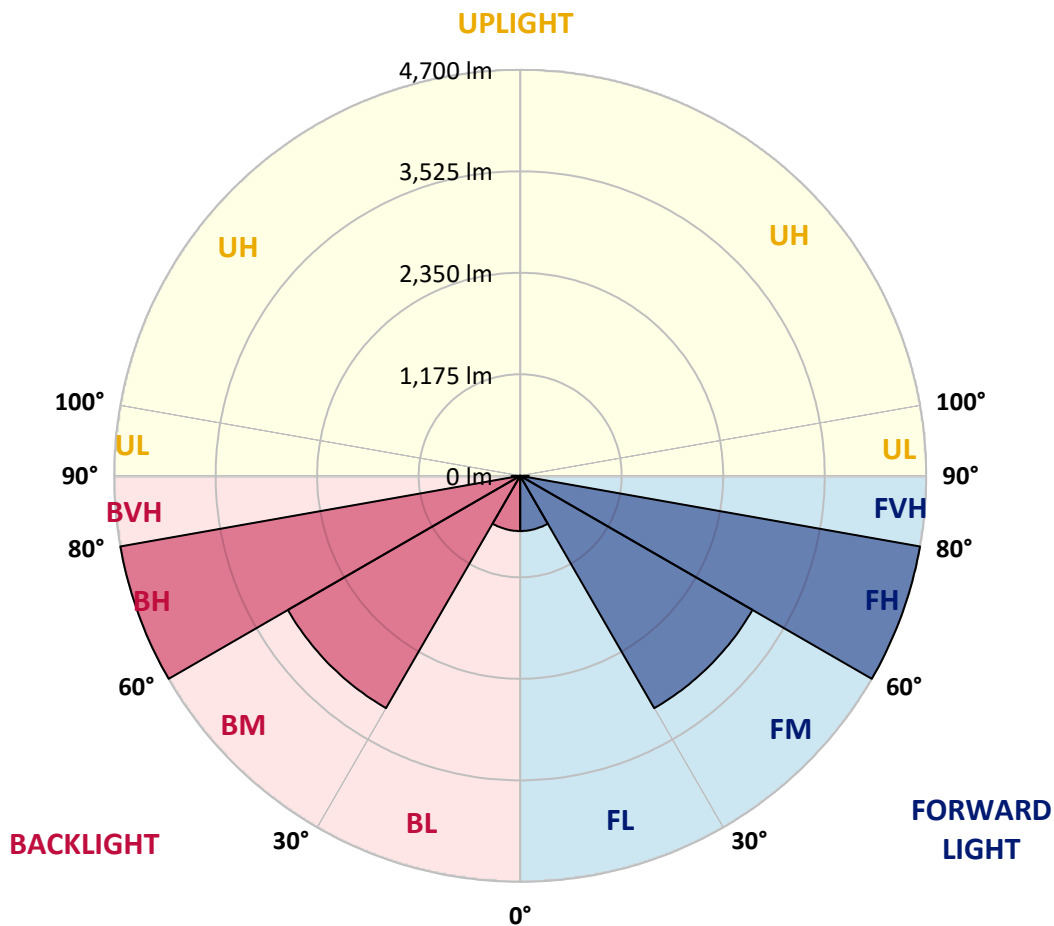
CATALOG NUMBER: NAV-SB3B-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.5	3.7			
FM (30°-60°)	3105.5	18.2			
FH (60°-80°)	4699.9	27.5			G2/5000
FVH (80°-90°)	97.6	0.6			G1/100
BL (0°-30°)	639.5	3.7	B2/1000		
BM (30°-60°)	3105.5	18.2	B3/5000		
BH (60°-80°)	4699.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	97.6	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: P883082

CATALOG NUMBER: NAV-SB3B-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5
2.5°	1548.7	1553.2	1551.4	1547.8	1547.8	1545.2	1547.8	1549.6	1552.3	1554.1	1553.2
5°	1528.3	1531.9	1531.0	1528.3	1529.2	1526.5	1528.3	1531.0	1532.7	1533.6	1533.6
7.5°	1510.5	1514.1	1512.3	1507.9	1507.9	1505.2	1506.1	1508.8	1511.4	1512.3	1512.3
10°	1506.1	1509.7	1504.3	1497.2	1494.6	1491.0	1491.9	1494.6	1499.9	1502.5	1502.5
12.5°	1507.9	1510.5	1505.2	1494.6	1491.9	1488.3	1488.3	1491.0	1498.1	1501.7	1502.5
15°	1513.2	1515.9	1507.9	1496.3	1493.7	1491.0	1490.1	1493.7	1501.7	1507.9	1508.8
17.5°	1523.0	1525.6	1513.2	1497.2	1493.7	1494.6	1493.7	1496.3	1508.8	1520.3	1520.3
20°	1531.9	1533.6	1516.8	1497.2	1493.7	1494.6	1493.7	1499.0	1515.0	1531.0	1531.9
22.5°	1534.5	1536.3	1520.3	1503.4	1500.8	1501.7	1500.8	1506.1	1521.2	1537.2	1537.2
25°	1535.4	1538.1	1525.6	1512.3	1516.8	1518.5	1516.8	1517.6	1529.2	1543.4	1542.5
27.5°	1548.7	1552.3	1540.7	1529.2	1531.9	1531.0	1533.6	1536.3	1545.2	1559.4	1555.8
30°	1576.3	1578.9	1569.2	1557.6	1555.8	1549.6	1557.6	1566.5	1576.3	1588.7	1586.0
32.5°	1621.5	1626.9	1614.4	1602.0	1594.0	1590.5	1596.7	1611.8	1625.1	1638.4	1633.1
35°	1697.0	1700.6	1689.0	1665.9	1651.7	1651.7	1657.1	1676.6	1697.9	1714.8	1708.6
37.5°	1803.6	1808.0	1787.6	1760.1	1738.8	1738.8	1745.9	1766.3	1798.3	1822.2	1813.4
40°	1933.2	1939.5	1913.7	1885.3	1864.9	1861.3	1870.2	1893.3	1923.5	1953.7	1943.9
42.5°	2089.5	2096.6	2062.9	2038.0	2022.0	2022.0	2026.5	2047.8	2075.3	2112.6	2110.0
45°	2289.3	2301.8	2255.6	2230.7	2215.6	2219.2	2221.9	2240.5	2265.4	2308.0	2306.2
47.5°	2527.3	2539.8	2490.9	2465.2	2462.5	2479.4	2468.7	2482.0	2495.4	2544.2	2530.0
50°	2797.3	2818.6	2784.9	2783.1	2788.4	2819.5	2794.6	2801.7	2786.6	2817.7	2799.1
52.5°	3127.6	3158.7	3152.5	3163.2	3222.7	3286.6	3229.8	3204.9	3148.1	3157.8	3125.0
55°	3528.2	3575.2	3584.1	3648.0	3783.0	3913.6	3792.8	3692.4	3571.7	3549.5	3514.8
57.5°	3983.7	4021.0	4063.6	4194.2	4446.4	4678.2	4446.4	4224.4	4034.3	3989.0	3957.1
60°	4473.9	4520.1	4560.9	4753.6	5128.4	5454.3	5121.3	4768.7	4517.4	4456.1	4402.9
62.5°	5000.5	5060.0	5088.4	5302.4	5739.4	6128.3	5745.6	5318.4	5039.6	4973.9	4920.6
65°	5505.8	5554.6	5586.6	5814.8	6232.2	6622.1	6260.6	5839.7	5552.9	5466.7	5424.1
67.5°	5741.1	5767.8	5845.9	6104.3	6544.8	6989.7	6619.4	6131.9	5811.3	5660.3	5662.1
70°	5396.6	5342.4	5530.7	5944.5	6582.1	7215.3	6667.3	5932.1	5539.5	5294.4	5353.1
72.5°	4170.2	4077.0	4403.8	5111.5	6155.8	7071.4	6198.5	5151.5	4607.1	4109.8	4233.2
75°	2268.9	2163.2	2614.4	3509.5	4909.0	6129.2	5021.8	3609.8	2911.0	2252.0	2398.6
77.5°	640.3	600.3	964.4	1697.9	2952.7	4303.4	3066.4	1735.2	1143.8	678.5	753.9
80°	196.3	190.0	257.5	511.5	1253.9	2061.1	1205.1	517.7	327.7	206.9	218.5
82.5°	116.3	106.6	127.9	186.5	319.7	647.4	310.8	194.5	156.3	104.8	113.7
85°	66.6	62.2	75.5	90.6	107.5	137.6	89.7	92.4	83.5	55.9	58.6
87.5°	27.5	24.9	29.3	28.4	24.9	32.0	24.0	28.4	33.7	22.2	20.4
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)