

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: P962380

Luminaire Tested: **NAV-SB2C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14911.7 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

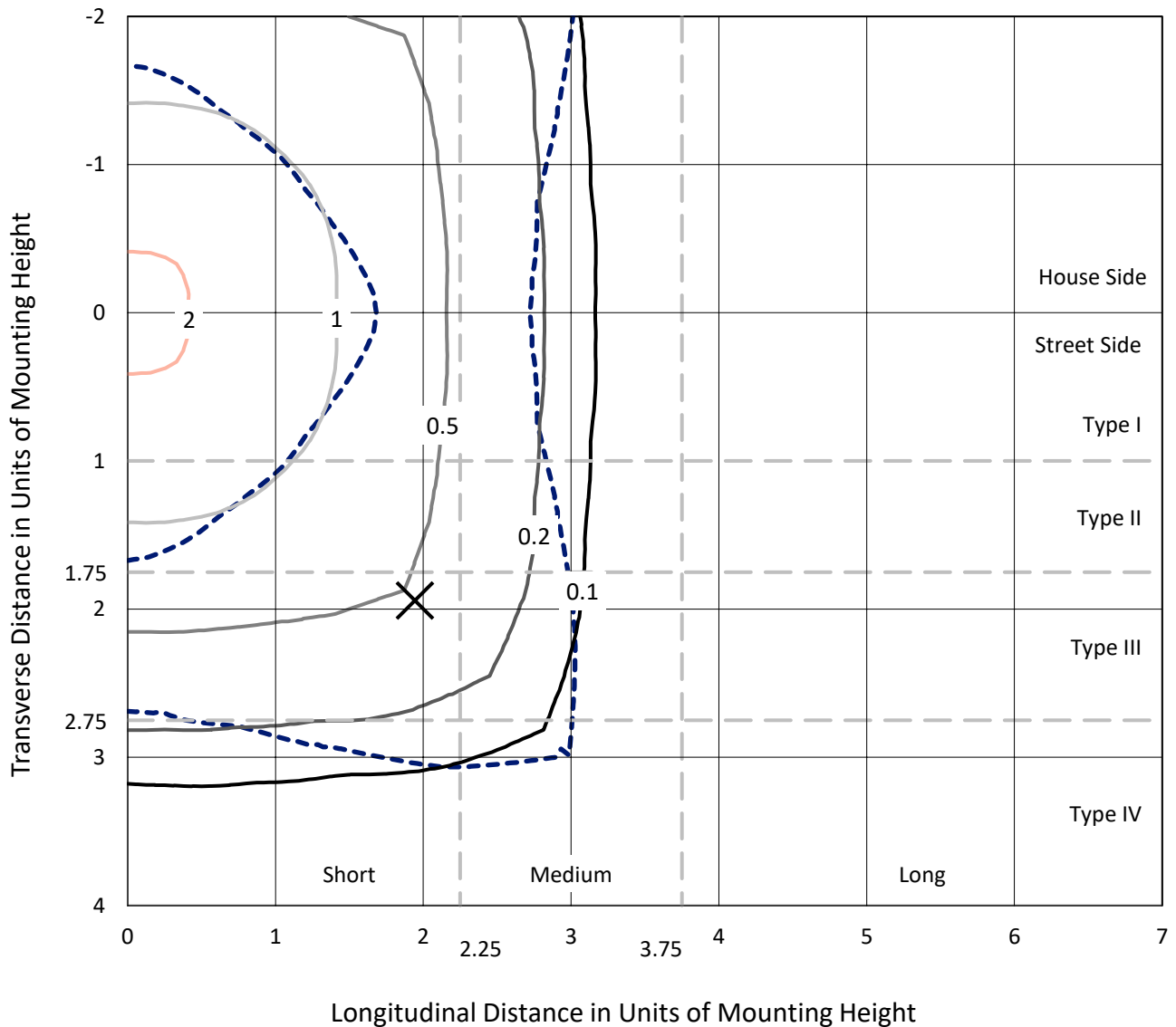
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

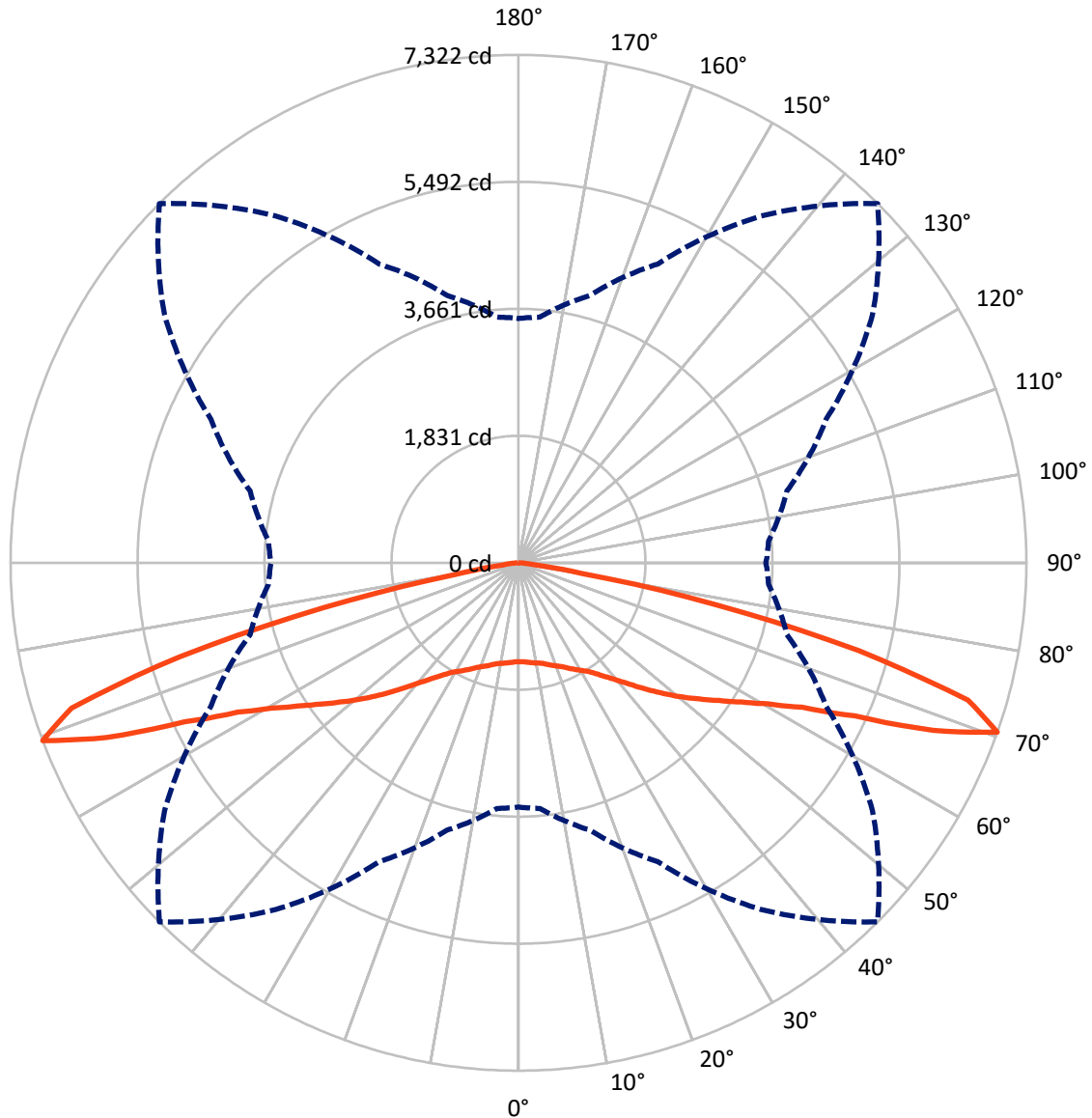
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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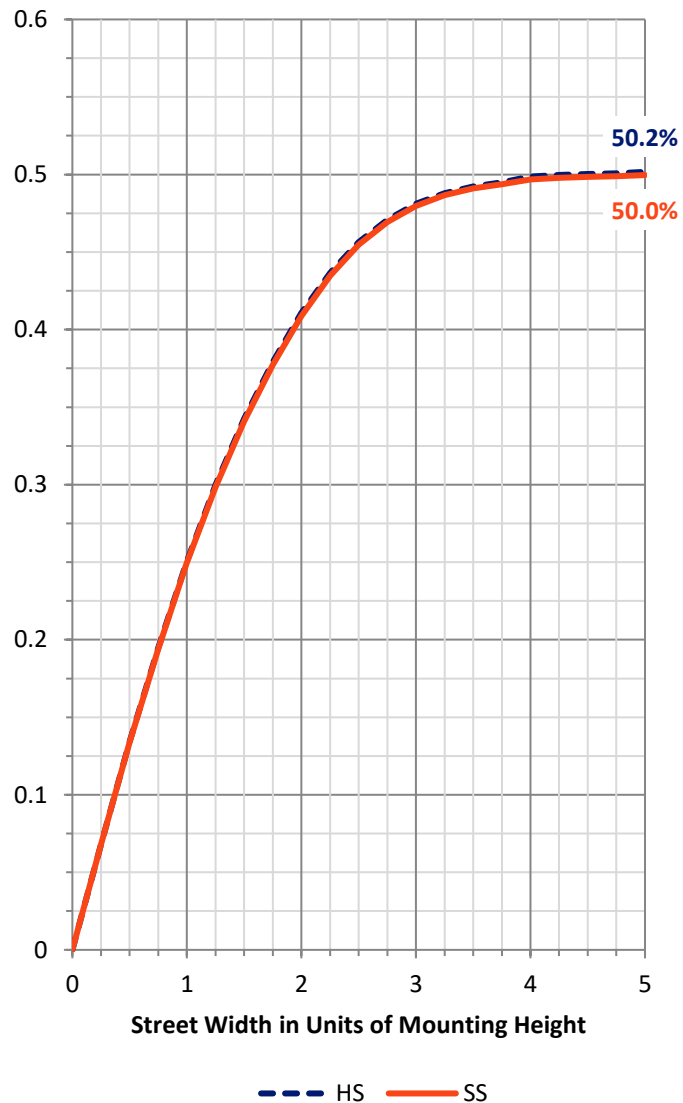
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7455.8	0.0	7455.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7455.8	0.0	7455.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14911.7	0.0	14911.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	0.9
10°-20°	430.3	2.9
20°-30°	769.0	5.2
30°-40°	1246.5	8.4
40°-50°	2030.4	13.6
50°-60°	3095.7	20.8
60°-70°	4605.4	30.9
70°-80°	2510.1	16.8
80°-90°	85.5	0.6
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°	14911.7	100.0
0°-180°	14911.7	100.0

Coefficient of Utilization



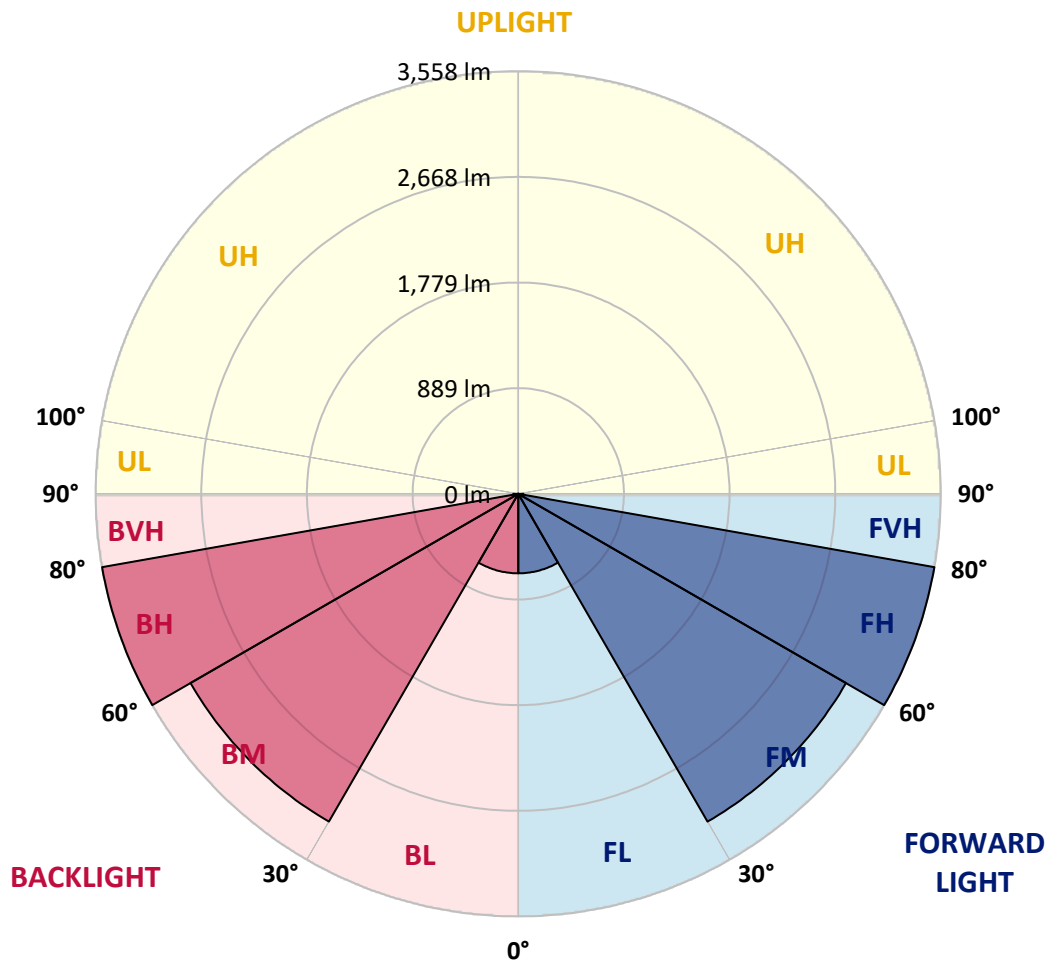
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.0	4.5			
FM (30°-60°)	3186.3	21.4			
FH (60°-80°)	3557.8	23.9			G2/5000
FVH (80°-90°)	42.7	0.3			G1/100
BL (0°-30°)	669.0	4.5	B2/1000		
BM (30°-60°)	3186.3	21.4	B3/5000		
BH (60°-80°)	3557.8	23.9	B4/5000		G2/5000
BVH (80°-90°)	42.7	0.3			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°	1428.3	1428.3	1428.3	1428.3	1428.3	1428.3	1428.3	1428.3	1428.3	1428.3	1428.3
2.5°	1435.1	1436.6	1433.7	1432.1	1430.6	1428.3	1429.2	1432.8	1435.9	1435.1	1435.9
5°	1447.1	1448.6	1446.4	1445.6	1442.6	1441.9	1441.9	1445.6	1447.8	1446.4	1447.1
7.5°	1460.6	1462.8	1459.1	1458.4	1456.8	1455.3	1454.6	1458.4	1460.6	1460.6	1460.6
10°	1473.3	1475.6	1472.5	1470.3	1468.8	1468.8	1467.3	1470.3	1474.1	1473.3	1473.3
12.5°	1486.8	1488.3	1485.3	1483.8	1483.8	1486.0	1483.8	1485.3	1488.3	1486.8	1486.0
15°	1503.3	1504.0	1503.3	1505.5	1509.2	1516.7	1510.0	1508.5	1510.0	1506.2	1506.2
17.5°	1525.7	1527.2	1530.2	1535.4	1540.7	1554.2	1542.2	1538.4	1538.4	1530.9	1530.9
20°	1553.4	1555.6	1560.2	1569.2	1575.8	1588.5	1576.7	1571.3	1569.2	1559.4	1559.4
22.5°	1582.6	1586.4	1593.1	1605.0	1617.0	1629.0	1617.0	1608.0	1601.4	1588.5	1587.8
25°	1616.3	1620.8	1631.3	1650.8	1667.2	1684.4	1670.2	1652.2	1638.8	1620.8	1620.0
27.5°	1664.2	1669.4	1682.1	1706.1	1727.1	1742.1	1728.6	1705.4	1686.6	1664.9	1664.2
30°	1731.5	1736.9	1751.8	1777.2	1791.5	1801.2	1792.2	1774.3	1751.8	1727.1	1727.1
32.5°	1818.5	1825.1	1841.6	1865.6	1868.6	1870.1	1867.0	1858.1	1841.6	1811.7	1812.4
35°	1928.4	1935.9	1954.7	1974.2	1971.2	1974.2	1969.6	1966.7	1954.7	1920.2	1920.2
37.5°	2063.2	2072.2	2091.7	2106.7	2099.2	2095.4	2096.1	2096.9	2090.2	2051.9	2051.9
40°	2219.6	2231.6	2245.9	2261.7	2248.8	2237.7	2245.2	2251.1	2245.2	2206.2	2206.2
42.5°	2380.7	2397.9	2412.8	2435.3	2424.8	2410.6	2421.0	2427.8	2415.1	2373.2	2376.2
45°	2559.5	2576.0	2595.5	2629.2	2621.7	2606.8	2621.7	2623.2	2601.4	2552.0	2557.3
47.5°	2744.4	2761.7	2790.9	2835.8	2832.8	2816.4	2835.8	2825.3	2797.6	2738.5	2734.7
50°	2919.6	2943.6	2988.5	3051.4	3057.4	3037.2	3063.4	3043.2	2996.8	2922.7	2921.1
52.5°	3084.3	3109.8	3180.9	3266.3	3288.0	3261.8	3297.0	3261.8	3192.2	3097.0	3088.1
55°	3257.2	3285.7	3370.3	3481.9	3525.3	3505.8	3538.8	3485.6	3386.8	3271.5	3255.8
57.5°	3460.9	3478.1	3579.2	3711.7	3785.1	3789.5	3804.5	3714.7	3594.9	3463.9	3445.9
60°	3681.8	3705.7	3815.8	3974.4	4090.5	4128.0	4112.2	3978.9	3839.8	3689.3	3665.3
62.5°	3964.7	3990.9	4122.8	4312.9	4496.3	4589.1	4527.7	4334.5	4162.4	3981.9	3950.6
65°	4199.1	4228.2	4466.3	4805.5	5139.3	5325.8	5171.5	4816.0	4506.0	4251.5	4209.6
67.5°	4029.2	4065.0	4438.7	5061.4	5891.7	6448.0	5920.2	5137.8	4530.7	4185.6	4133.9
70°	3521.6	3555.2	3990.9	4752.3	6103.6	7322.4	6230.9	4892.3	4005.2	3618.9	3567.2
72.5°	2337.9	2446.6	2887.4	3800.8	5450.0	6775.9	5503.9	3723.7	2678.6	2332.7	2257.2
75°	775.6	862.4	1163.4	1970.4	3650.3	5067.5	3475.2	1743.5	921.6	663.3	627.4
77.5°	195.4	225.3	310.7	563.8	1456.1	2885.2	1310.9	460.4	250.8	175.2	156.4
80°	95.1	104.9	149.8	187.9	364.6	917.1	342.1	176.7	118.3	91.3	83.8
82.5°	52.4	53.2	84.6	106.3	135.5	237.3	140.7	103.3	68.2	55.4	55.4
85°	32.2	31.5	44.9	56.9	56.9	84.6	67.3	56.9	38.9	34.4	36.0
87.5°	12.7	12.7	16.5	17.9	15.7	21.7	17.2	18.8	15.0	14.2	15.0
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)