

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: P961512

Luminaire Tested: **NAV-SB2A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961512
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-SB2A-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8373.2 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 57.3
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

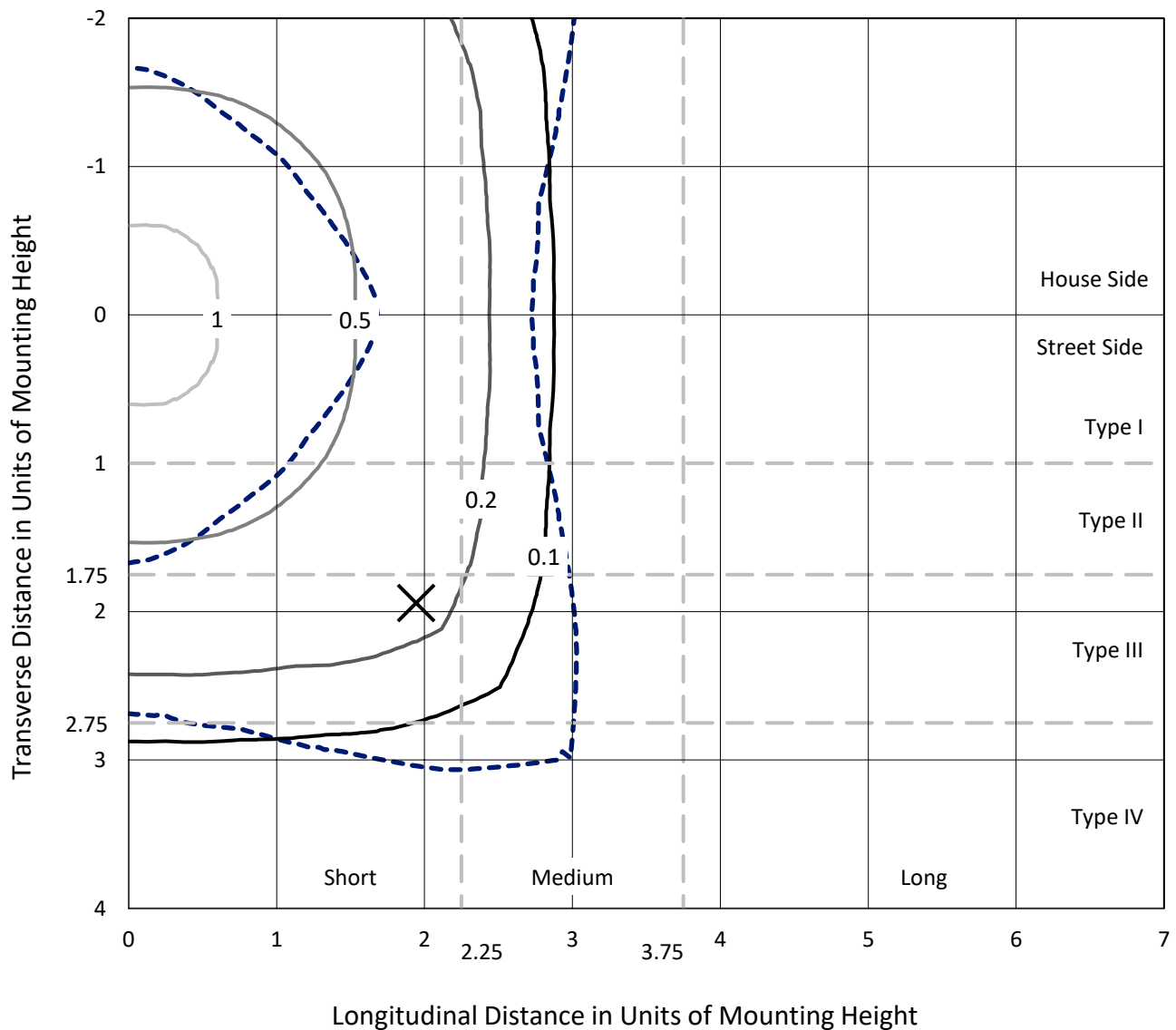


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Iso-Footcandle Lines of Horizontal Illumination

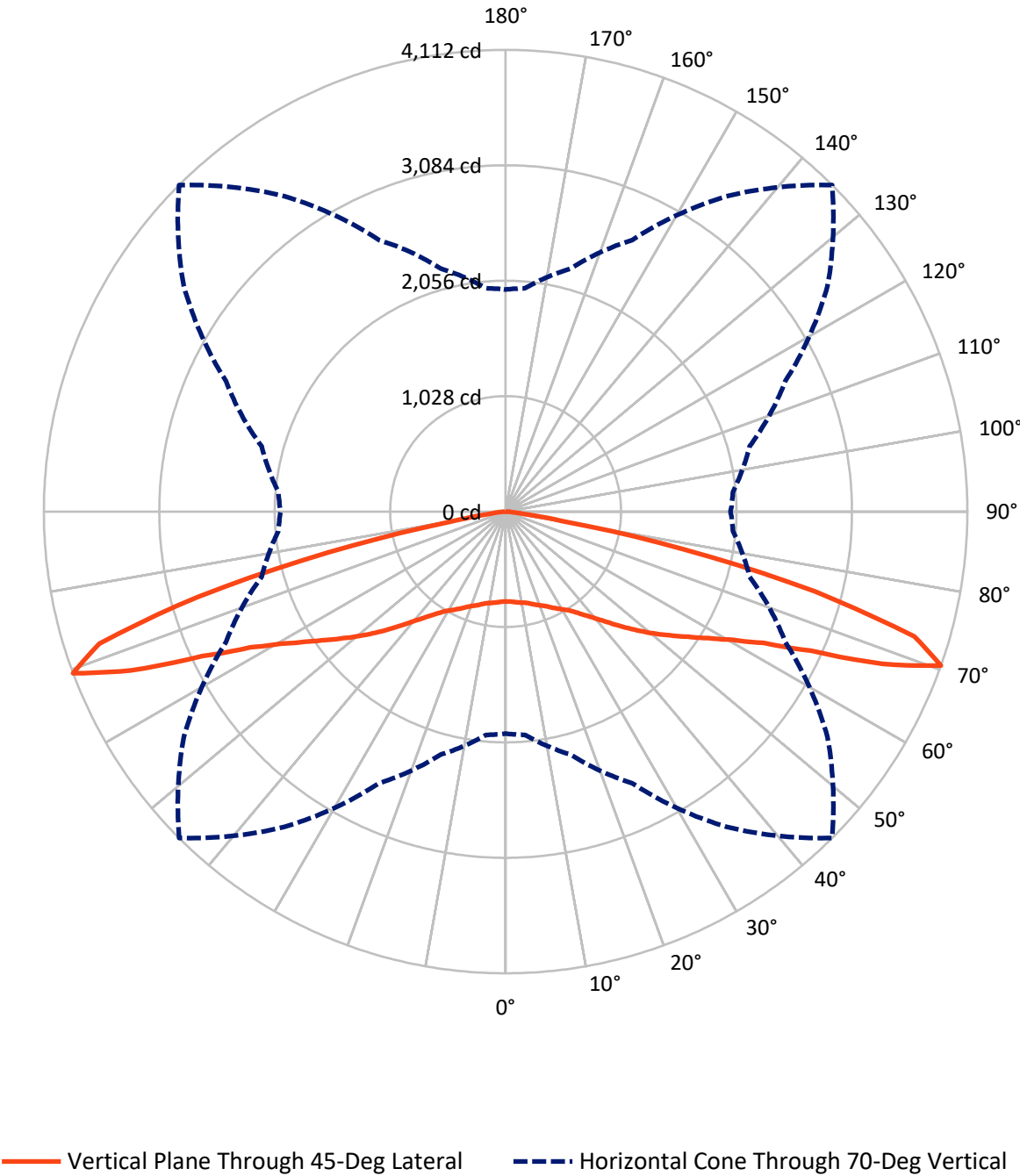
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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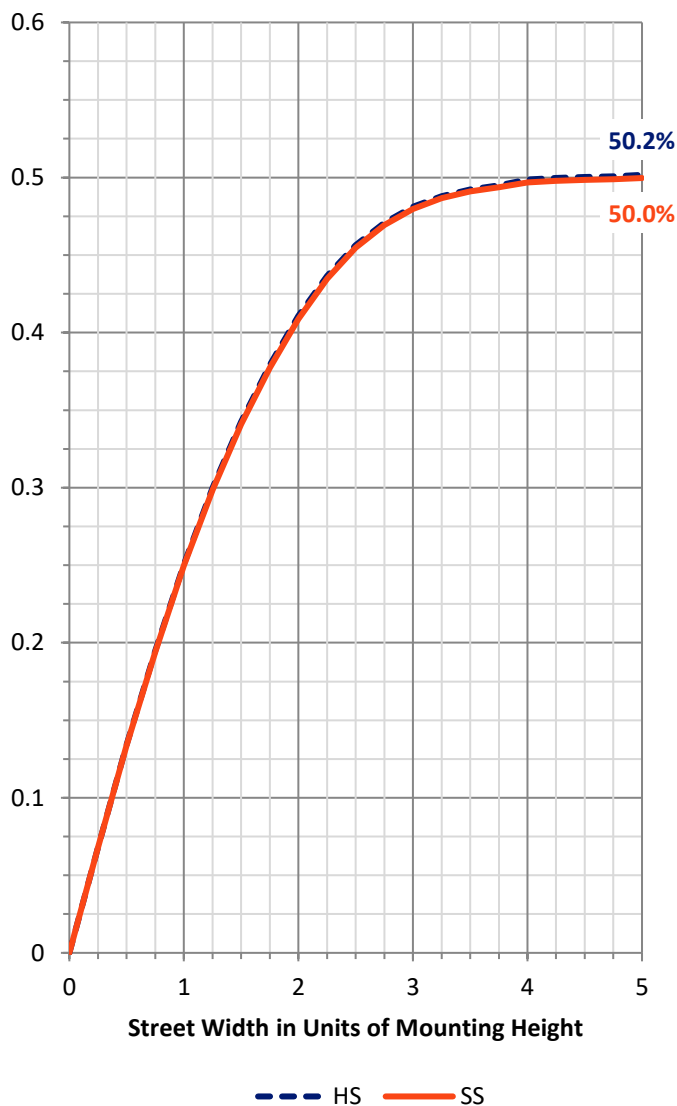
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4186.6	0.0	4186.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4186.6	0.0	4186.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	8373.2	0.0	8373.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	0.9
10°-20°	241.6	2.9
20°-30°	431.8	5.2
30°-40°	700.0	8.4
40°-50°	1140.1	13.6
50°-60°	1738.3	20.8
60°-70°	2586.0	30.9
70°-80°	1409.5	16.8
80°-90°	48.0	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°	8373.2	100.0
0°-180°	8373.2	100.0

Coefficient of Utilization



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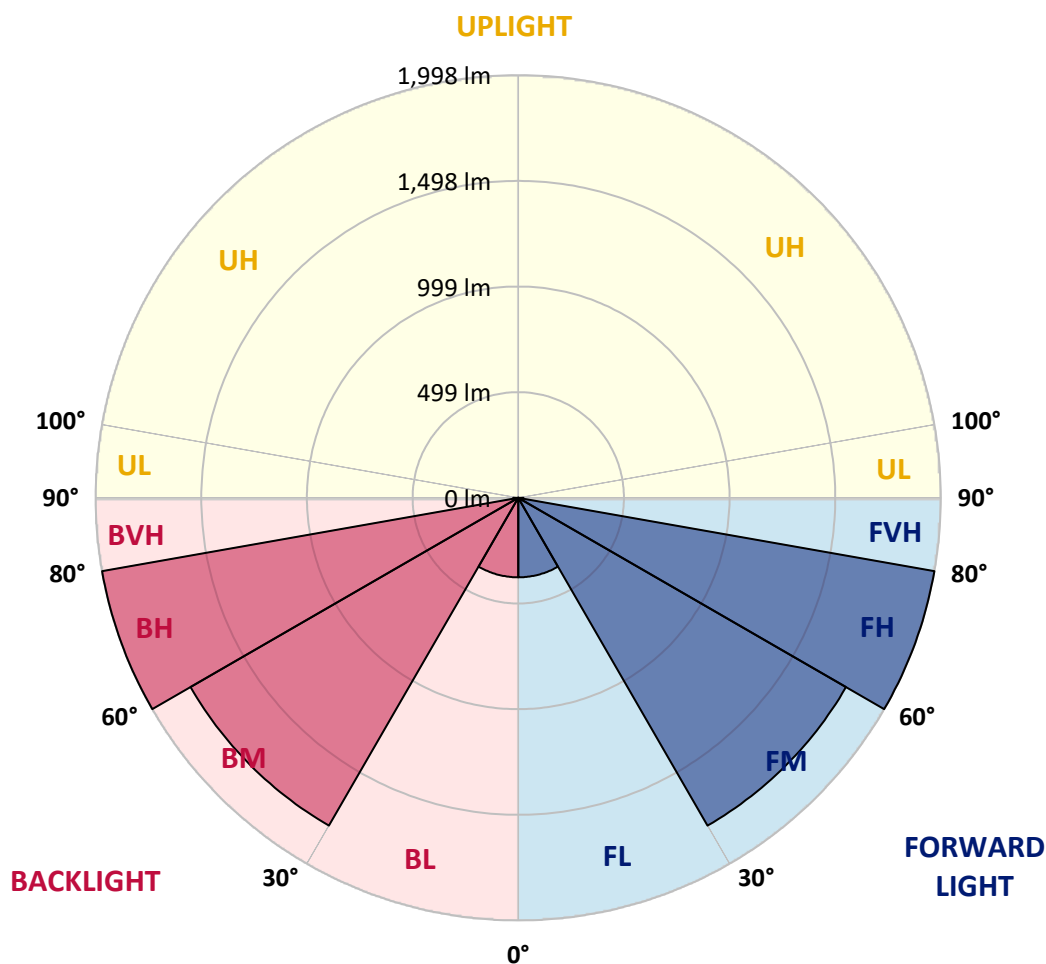
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.7	4.5			
FM	(30°-60°)	1789.2	21.4			
FH	(60°-80°)	1997.7	23.9			G2/5000
FVH	(80°-90°)	24.0	0.3			G1/100
BL	(0°-30°)	375.7	4.5	B1/500		
BM	(30°-60°)	1789.2	21.4	B2/2500		
BH	(60°-80°)	1997.7	23.9	B3/2500		G2/5000
BVH	(80°-90°)	24.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	805.9	806.7	805.0	804.2	803.3	802.1	802.5	804.6	806.3	805.9	806.3
5°	812.6	813.4	812.1	811.7	810.1	809.6	809.6	811.7	813.0	812.1	812.6
7.5°	820.1	821.4	819.3	818.9	818.1	817.2	816.8	818.9	820.1	820.1	820.1
10°	827.3	828.5	826.9	825.6	824.8	824.8	823.9	825.6	827.7	827.3	827.3
12.5°	834.9	835.7	834.0	833.2	833.2	834.5	833.2	834.0	835.7	834.9	834.5
15°	844.1	844.5	844.1	845.3	847.5	851.7	847.9	847.1	847.9	845.8	845.8
17.5°	856.7	857.5	859.3	862.2	865.1	872.7	865.9	863.9	863.9	859.7	859.7
20°	872.3	873.5	876.1	881.1	884.9	892.1	885.3	882.3	881.1	875.7	875.7
22.5°	888.7	890.7	894.5	901.3	908.0	914.7	908.0	902.9	899.1	892.1	891.6
25°	907.5	910.1	915.9	926.9	936.1	945.9	937.9	927.7	920.1	910.1	909.7
27.5°	934.5	937.5	944.5	958.1	969.8	978.2	970.7	957.6	947.1	934.9	934.5
30°	972.3	975.3	983.7	997.9	1005.9	1011.4	1006.3	996.3	983.7	969.8	969.8
32.5°	1021.1	1024.9	1034.1	1047.6	1049.3	1050.1	1048.4	1043.3	1034.1	1017.3	1017.7
35°	1082.9	1087.1	1097.6	1108.5	1106.8	1108.5	1106.0	1104.3	1097.6	1078.3	1078.3
37.5°	1158.6	1163.6	1174.5	1183.0	1178.8	1176.6	1177.0	1177.4	1173.7	1152.2	1152.2
40°	1246.4	1253.2	1261.2	1270.0	1262.8	1256.4	1260.6	1264.0	1260.6	1238.8	1238.8
42.5°	1336.8	1346.4	1354.8	1367.5	1361.6	1353.6	1359.5	1363.2	1356.1	1332.6	1334.2
45°	1437.3	1446.5	1457.4	1476.3	1472.1	1463.7	1472.1	1473.0	1460.8	1433.1	1436.0
47.5°	1541.1	1550.7	1567.1	1592.3	1590.7	1581.5	1592.3	1586.5	1570.9	1537.7	1535.7
50°	1639.5	1652.9	1678.1	1713.4	1716.8	1705.4	1720.2	1708.8	1682.7	1641.1	1640.3
52.5°	1731.9	1746.2	1786.2	1834.0	1846.2	1831.6	1851.4	1831.6	1792.4	1739.1	1734.0
55°	1829.0	1845.0	1892.6	1955.2	1979.5	1968.6	1987.1	1957.2	1901.8	1837.0	1828.2
57.5°	1943.4	1953.0	2009.8	2084.2	2125.4	2127.9	2136.3	2085.9	2018.6	1945.0	1935.0
60°	2067.4	2080.9	2142.7	2231.7	2296.9	2317.9	2309.1	2234.3	2156.1	2071.6	2058.1
62.5°	2226.3	2241.0	2315.0	2421.8	2524.8	2576.8	2542.4	2434.0	2337.3	2235.9	2218.3
65°	2357.9	2374.2	2508.0	2698.3	2885.9	2990.5	2903.9	2704.3	2530.2	2387.3	2363.8
67.5°	2262.5	2282.6	2492.4	2842.1	3308.3	3620.6	3324.3	2885.0	2544.0	2350.3	2321.3
70°	1977.4	1996.4	2241.0	2668.5	3427.3	4111.7	3498.7	2747.1	2249.0	2032.1	2003.1
72.5°	1312.8	1373.8	1621.3	2134.3	3060.3	3804.8	3090.6	2090.9	1504.1	1309.8	1267.4
75°	435.5	484.3	653.2	1106.4	2049.7	2845.5	1951.4	979.1	517.5	372.5	352.3
77.5°	109.7	126.5	174.5	316.5	817.6	1620.1	736.1	258.5	140.8	98.4	87.8
80°	53.4	58.8	84.0	105.5	204.7	515.0	192.1	99.2	66.4	51.2	47.0
82.5°	29.4	29.8	47.5	59.7	76.1	133.2	79.0	58.0	38.2	31.1	31.1
85°	18.0	17.6	25.2	32.0	32.0	47.5	37.8	32.0	21.8	19.4	20.2
87.5°	7.2	7.2	9.2	10.0	8.8	12.2	9.6	10.6	8.4	8.0	8.4
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)