

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: P962041

Luminaire Tested: **NAV-SB2B-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10152.6 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

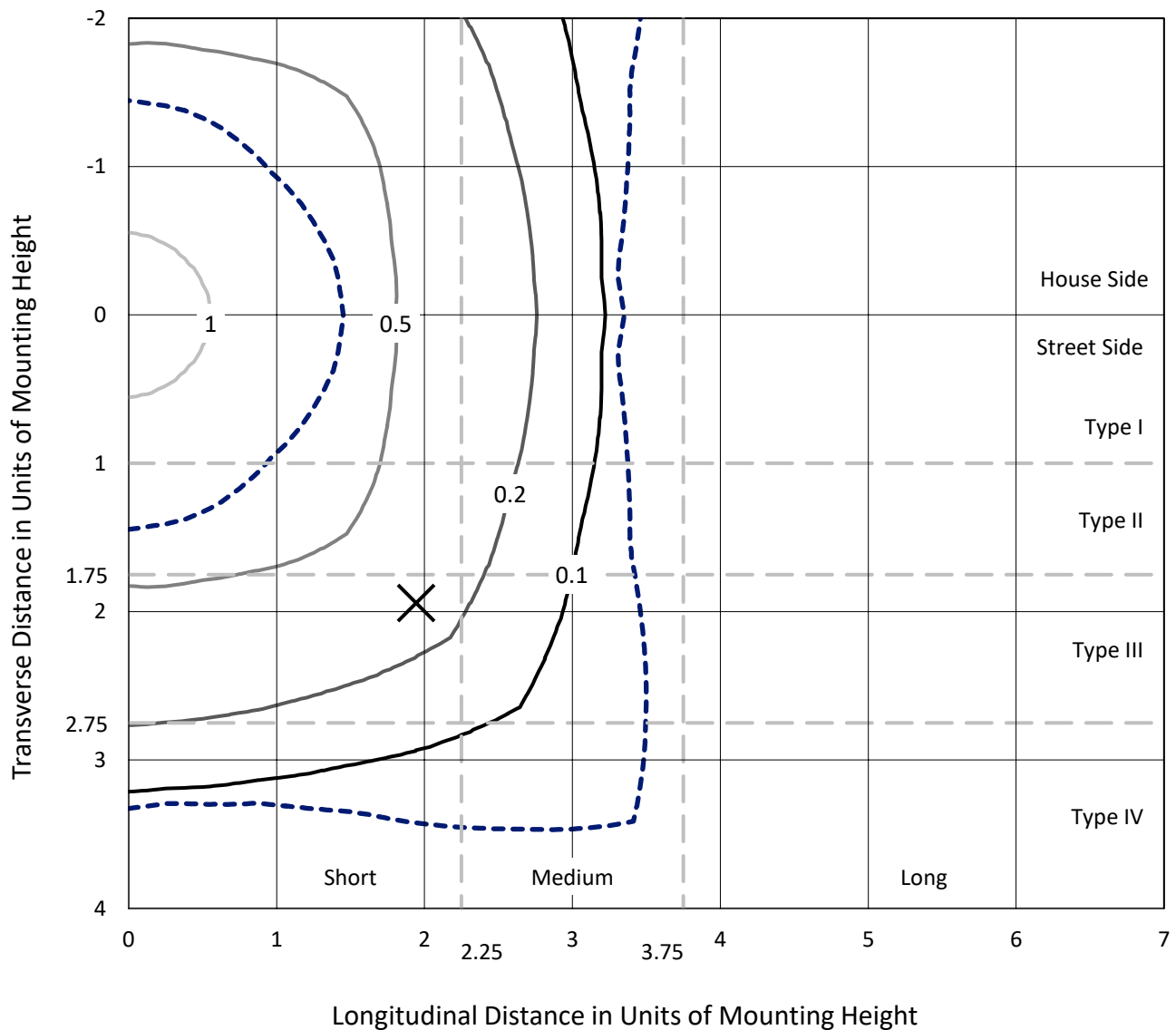
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

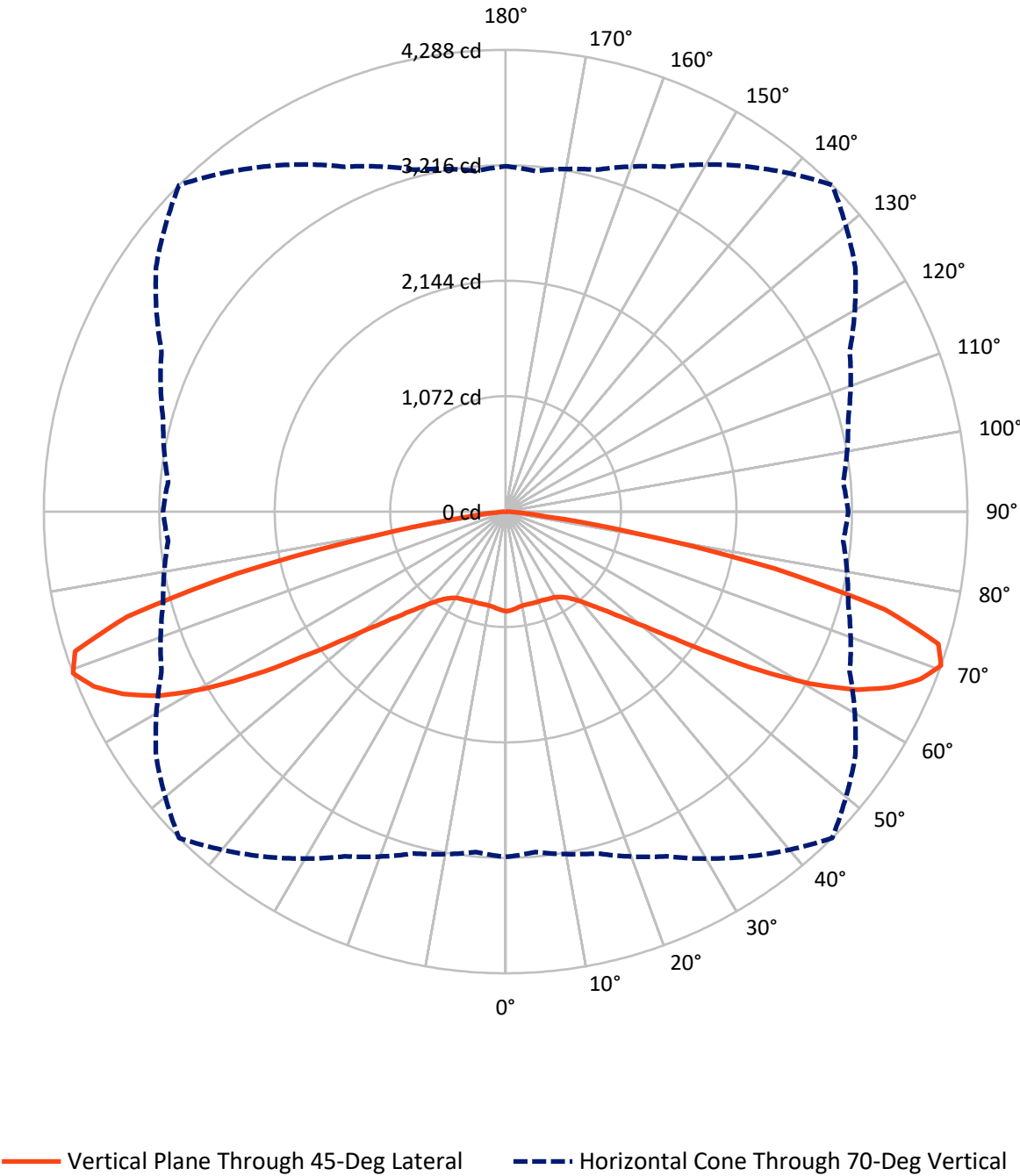
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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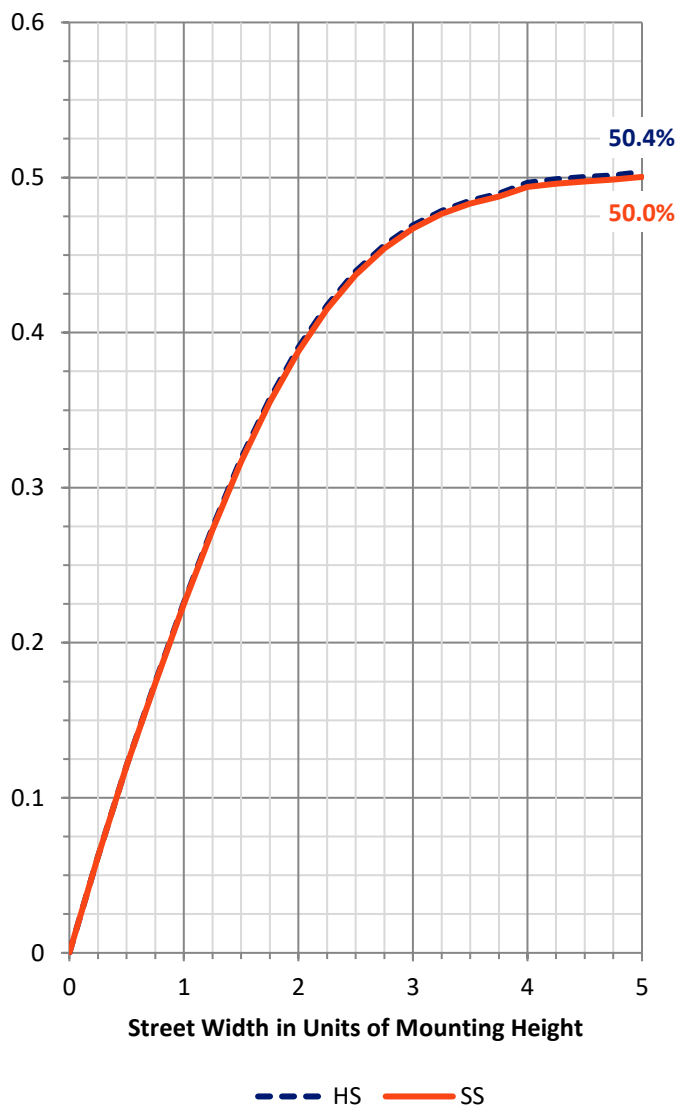
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5076.3	0.0	5076.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5076.3	0.0	5076.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10152.6	0.0	10152.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	0.8
10°-20°	253.0	2.5
20°-30°	421.0	4.1
30°-40°	636.6	6.3
40°-50°	1057.9	10.4
50°-60°	1996.3	19.7
60°-70°	3370.8	33.2
70°-80°	2214.9	21.8
80°-90°	116.0	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°	10152.6	100.0
0°-180°	10152.6	100.0

Coefficient of Utilization



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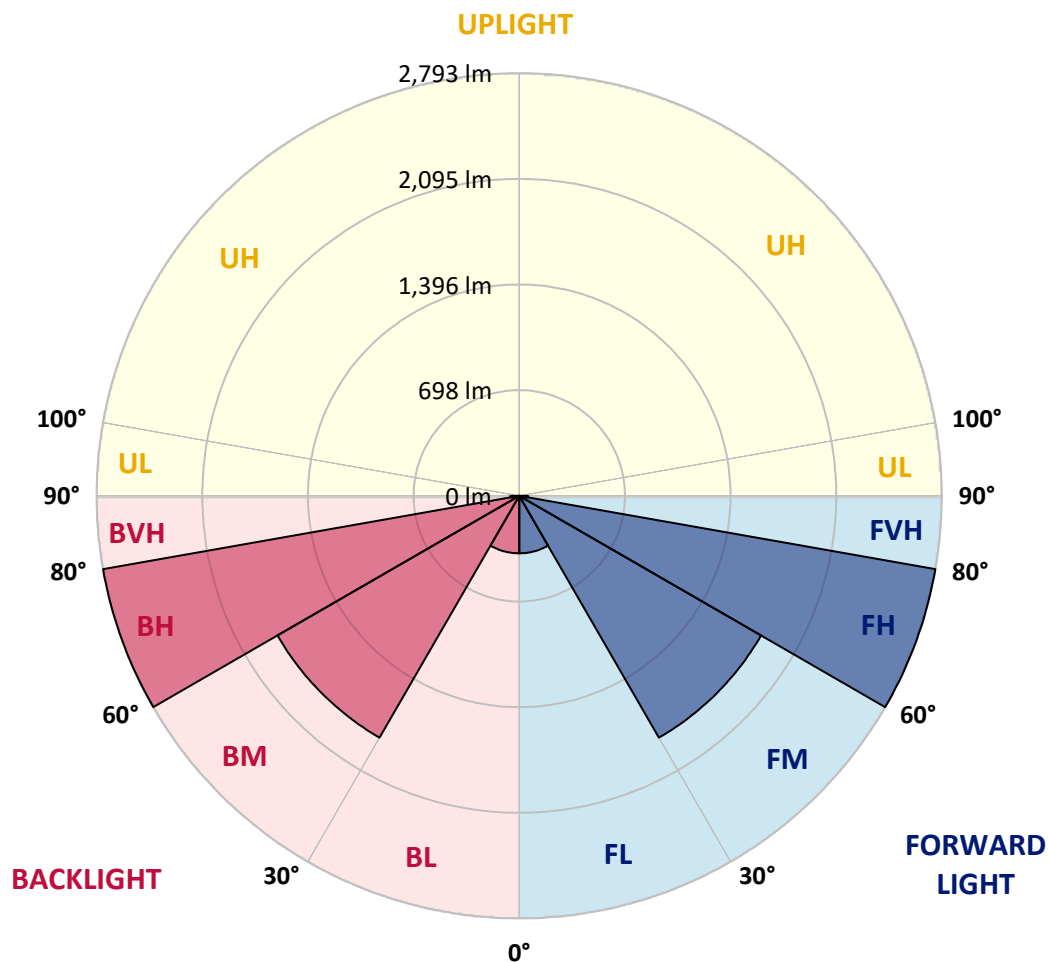
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.0	3.7			
FM	(30°-60°)	1845.4	18.2			
FH	(60°-80°)	2792.8	27.5			G2/5000
FVH	(80°-90°)	58.0	0.6			G1/100
BL	(0°-30°)	380.0	3.7	B1/500		
BM	(30°-60°)	1845.4	18.2	B2/2500		
BH	(60°-80°)	2792.8	27.5	B4/5000		G2/5000
BVH	(80°-90°)	58.0	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°	926.1	926.1	926.1	926.1	926.1	926.1	926.1	926.1	926.1	926.1	926.1
2.5°	920.3	922.9	921.9	919.8	919.8	918.2	919.8	920.9	922.4	923.5	922.9
5°	908.2	910.3	909.8	908.2	908.7	907.1	908.2	909.8	910.8	911.3	911.3
7.5°	897.6	899.7	898.7	896.1	896.1	894.4	895.0	896.6	898.1	898.7	898.7
10°	895.0	897.1	893.9	889.7	888.2	886.0	886.5	888.2	891.3	892.9	892.9
12.5°	896.1	897.6	894.4	888.2	886.5	884.5	884.5	886.0	890.2	892.4	892.9
15°	899.2	900.8	896.1	889.2	887.6	886.0	885.5	887.6	892.4	896.1	896.6
17.5°	905.0	906.6	899.2	889.7	887.6	888.2	887.6	889.2	896.6	903.4	903.4
20°	910.3	911.3	901.3	889.7	887.6	888.2	887.6	890.7	900.3	909.8	910.3
22.5°	911.8	913.0	903.4	893.4	891.9	892.4	891.9	895.0	903.9	913.5	913.5
25°	912.4	914.0	906.6	898.7	901.3	902.4	901.3	901.9	908.7	917.2	916.7
27.5°	920.3	922.4	915.5	908.7	910.3	909.8	911.3	913.0	918.2	926.7	924.6
30°	936.6	938.3	932.4	925.6	924.6	920.9	925.6	930.9	936.6	944.0	942.5
32.5°	963.6	966.8	959.4	952.0	947.2	945.2	948.8	957.8	965.7	973.6	970.5
35°	1008.4	1010.5	1003.7	989.9	981.5	981.5	984.7	996.3	1009.0	1019.0	1015.3
37.5°	1071.7	1074.4	1062.3	1045.9	1033.2	1033.2	1037.5	1049.6	1068.6	1082.8	1077.6
40°	1148.8	1152.5	1137.2	1120.3	1108.2	1106.1	1111.3	1125.0	1143.0	1160.9	1155.2
42.5°	1241.7	1245.9	1225.9	1211.0	1201.6	1201.6	1204.3	1216.9	1233.3	1255.4	1253.8
45°	1360.4	1367.9	1340.4	1325.6	1316.6	1318.8	1320.3	1331.4	1346.1	1371.6	1370.4
47.5°	1501.8	1509.2	1480.2	1464.9	1463.3	1473.3	1467.0	1475.0	1482.9	1511.9	1503.5
50°	1662.2	1675.0	1654.9	1653.8	1657.0	1675.5	1660.7	1664.9	1656.0	1674.4	1663.4
52.5°	1858.5	1877.1	1873.4	1879.6	1915.0	1953.0	1919.3	1904.4	1870.7	1876.6	1857.0
55°	2096.5	2124.5	2129.8	2167.8	2248.0	2325.6	2253.9	2194.2	2122.5	2109.2	2088.6
57.5°	2367.2	2389.5	2414.8	2492.4	2642.2	2780.0	2642.2	2510.3	2397.4	2370.4	2351.5
60°	2658.5	2686.0	2710.3	2824.8	3047.5	3241.2	3043.3	2833.8	2684.5	2648.0	2616.4
62.5°	2971.5	3006.8	3023.7	3151.0	3410.6	3641.7	3414.3	3160.4	2994.7	2955.7	2924.0
65°	3271.8	3300.8	3319.8	3455.4	3703.4	3935.1	3720.3	3470.2	3299.8	3248.5	3223.2
67.5°	3411.6	3427.5	3473.9	3627.5	3889.2	4153.6	3933.5	3643.8	3453.3	3363.6	3364.7
70°	3206.9	3174.6	3286.6	3532.5	3911.4	4287.6	3962.0	3525.1	3291.8	3146.1	3181.0
72.5°	2478.1	2422.7	2616.9	3037.5	3658.0	4202.1	3683.3	3061.3	2737.8	2442.3	2515.6
75°	1348.3	1285.5	1553.6	2085.5	2917.1	3642.2	2984.2	2145.1	1729.8	1338.2	1425.4
77.5°	380.5	356.7	573.1	1009.0	1754.6	2557.3	1822.1	1031.1	679.7	403.1	448.0
80°	116.6	113.0	153.0	303.9	745.1	1224.8	716.1	307.6	194.7	123.0	129.8
82.5°	69.1	63.3	76.0	110.8	189.9	384.7	184.7	115.5	92.9	62.3	67.5
85°	39.6	36.9	44.9	53.8	63.9	81.8	53.3	54.8	49.6	33.2	34.8
87.5°	16.4	14.8	17.4	16.9	14.8	19.0	14.2	16.9	20.1	13.2	12.1
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)