

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: P960489

Luminaire Tested: **NAV-SB1C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960489
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-SB1C-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7226.2 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 54.4
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



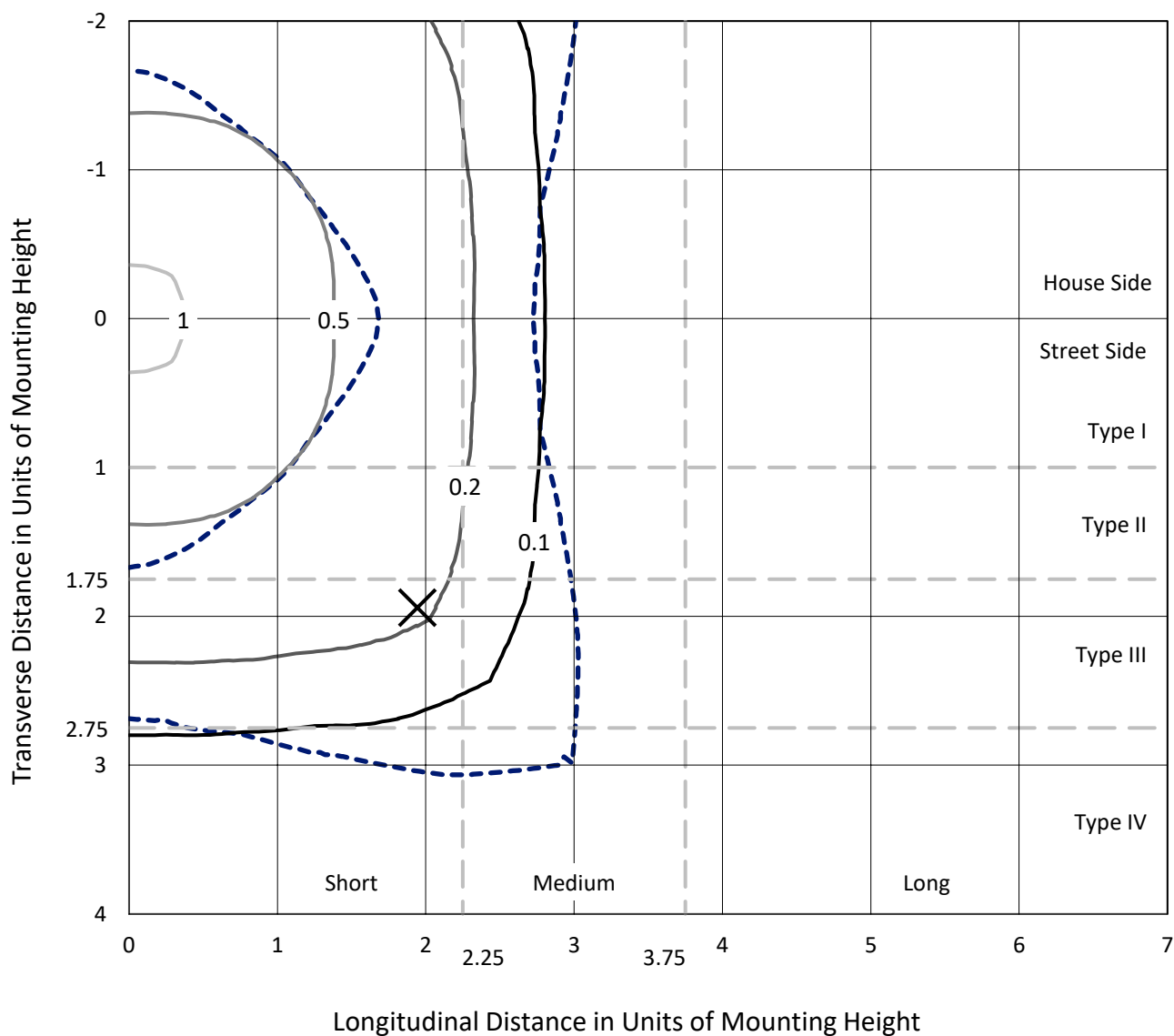
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

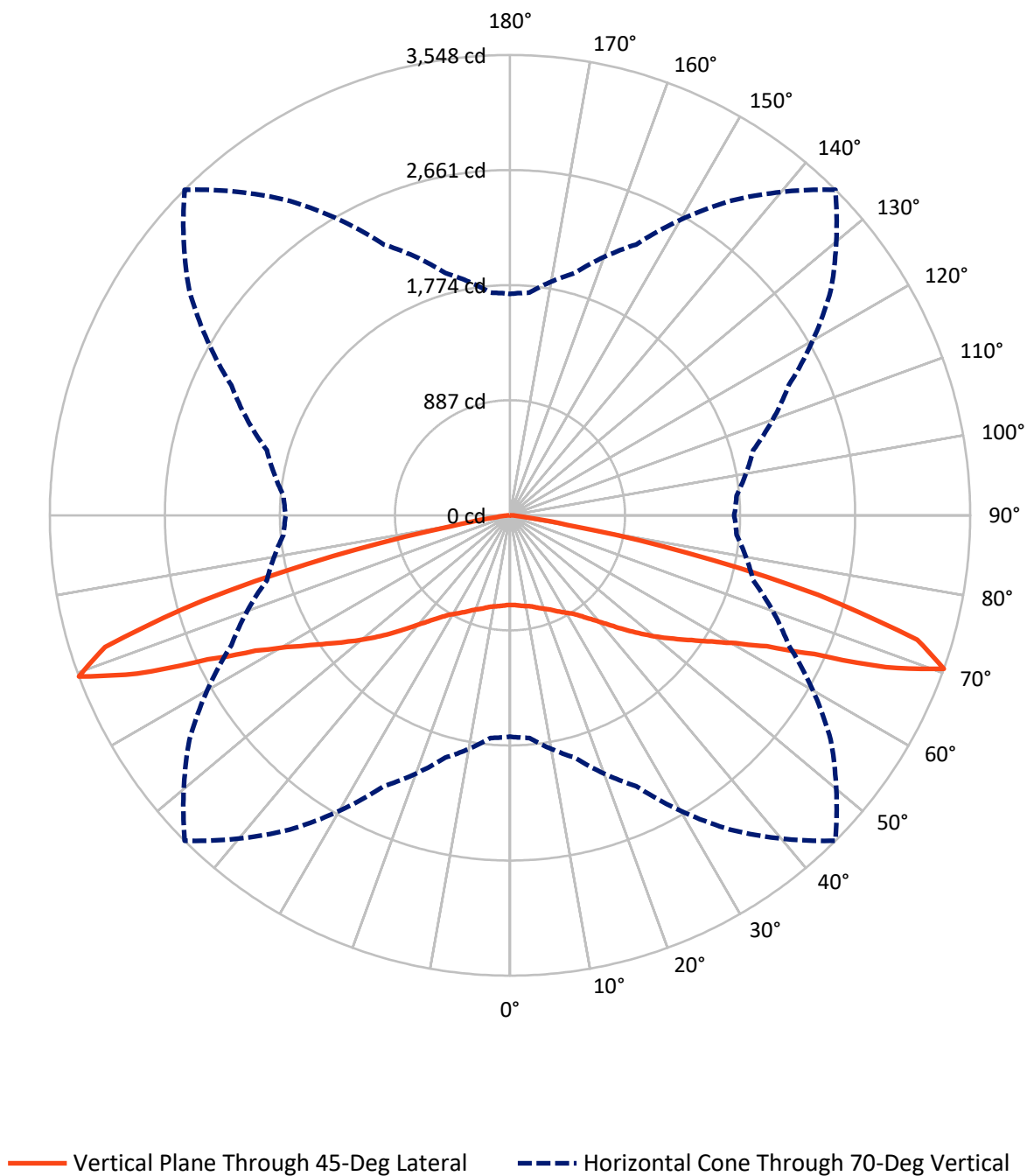


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc

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	3613.1	0.0	3613.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3613.1	0.0	3613.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7226.2	0.0	7226.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.9
10°-20°	208.5	2.9
20°-30°	372.7	5.2
30°-40°	604.1	8.4
40°-50°	983.9	13.6
50°-60°	1500.2	20.8
60°-70°	2231.8	30.9
70°-80°	1216.4	16.8
80°-90°	41.4	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°	7226.2	100.0
0°-180°	7226.2	100.0

Coefficient of Utilization



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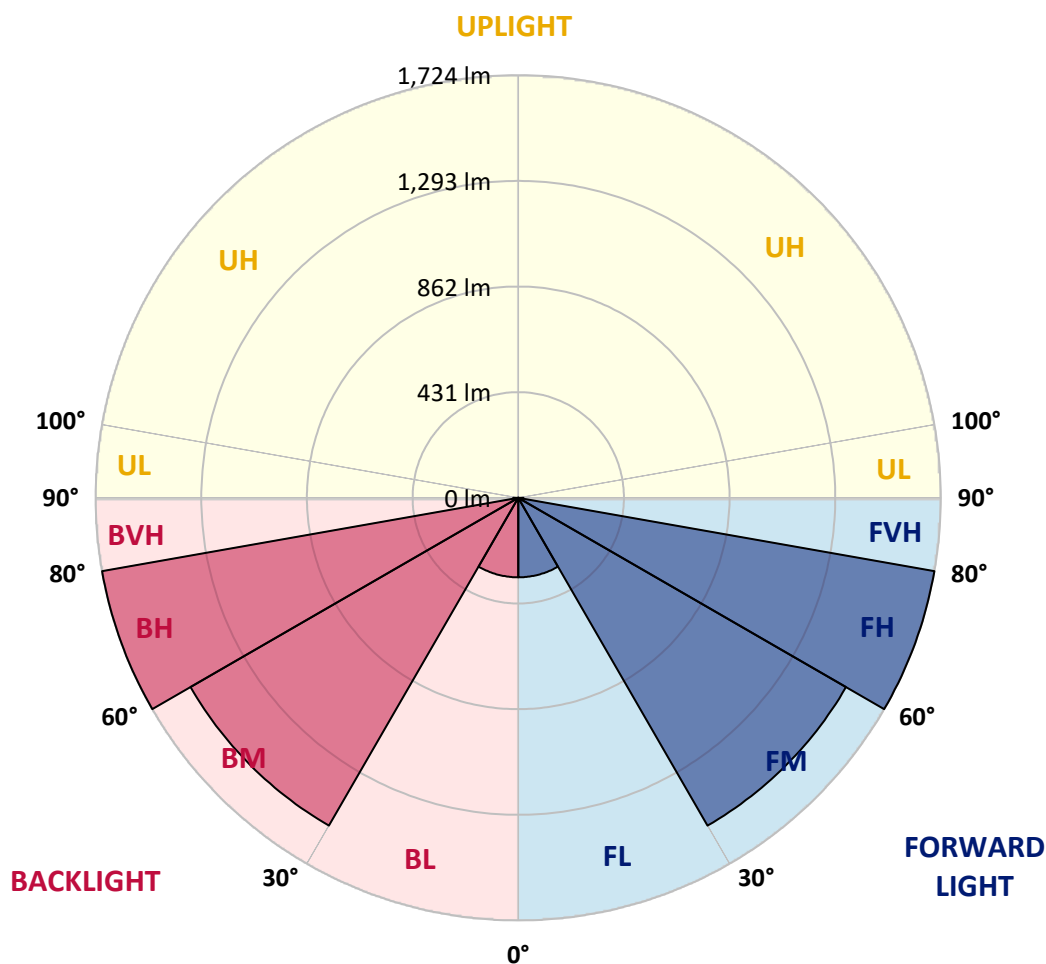
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.2	4.5			
FM	(30°-60°)	1544.1	21.4			
FH	(60°-80°)	1724.1	23.9			G1/1800
FVH	(80°-90°)	20.7	0.3			G1/100
BL	(0°-30°)	324.2	4.5	B1/500		
BM	(30°-60°)	1544.1	21.4	B2/2500		
BH	(60°-80°)	1724.1	23.9	B3/2500		G1/1800
BVH	(80°-90°)	20.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2
2.5°	695.5	696.2	694.7	694.0	693.3	692.2	692.6	694.3	695.9	695.5	695.9
5°	701.3	702.0	700.9	700.6	699.0	698.7	698.7	700.6	701.6	700.9	701.3
7.5°	707.8	708.9	707.0	706.7	706.0	705.3	704.9	706.7	707.8	707.8	707.8
10°	714.0	715.0	713.6	712.5	711.8	711.8	711.0	712.5	714.3	714.0	714.0
12.5°	720.5	721.2	719.8	719.0	719.0	720.2	719.0	719.8	721.2	720.5	720.2
15°	728.5	728.9	728.5	729.6	731.3	735.0	731.7	731.0	731.7	729.9	729.9
17.5°	739.3	740.0	741.6	744.0	746.6	753.2	747.3	745.5	745.5	741.9	741.9
20°	752.8	753.9	756.0	760.4	763.6	769.9	764.0	761.5	760.4	755.7	755.7
22.5°	766.9	768.7	772.0	777.8	783.6	789.5	783.6	779.3	776.0	769.9	769.5
25°	783.3	785.5	790.5	799.9	807.9	816.3	809.3	800.6	794.2	785.5	785.0
27.5°	806.5	809.0	815.2	826.8	836.9	844.2	837.6	826.5	817.3	806.9	806.5
30°	839.2	841.6	848.9	861.3	868.2	872.9	868.5	859.8	848.9	836.9	836.9
32.5°	881.2	884.5	892.5	904.0	905.5	906.2	904.8	900.5	892.5	877.9	878.3
35°	934.5	938.2	947.2	956.6	955.2	956.6	954.5	953.0	947.2	930.6	930.6
37.5°	999.9	1004.2	1013.6	1020.9	1017.2	1015.5	1015.8	1016.2	1012.9	994.4	994.4
40°	1075.6	1081.5	1088.3	1096.0	1089.8	1084.3	1088.0	1090.9	1088.0	1069.2	1069.2
42.5°	1153.6	1162.0	1169.2	1180.2	1175.1	1168.2	1173.2	1176.5	1170.3	1150.0	1151.5
45°	1240.4	1248.3	1257.8	1274.1	1270.5	1263.2	1270.5	1271.2	1260.6	1236.8	1239.3
47.5°	1329.9	1338.3	1352.5	1374.2	1372.8	1364.8	1374.2	1369.2	1355.8	1327.1	1325.2
50°	1414.9	1426.5	1448.2	1478.8	1481.6	1471.8	1484.5	1474.8	1452.2	1416.3	1415.6
52.5°	1494.7	1507.1	1541.5	1582.8	1593.4	1580.7	1597.8	1580.7	1546.9	1500.8	1496.5
55°	1578.5	1592.2	1633.2	1687.4	1708.4	1698.9	1714.9	1689.1	1641.2	1585.4	1577.8
57.5°	1677.2	1685.5	1734.5	1798.7	1834.2	1836.4	1843.7	1800.1	1742.1	1678.6	1669.9
60°	1784.2	1795.8	1849.1	1926.1	1982.2	2000.4	1992.8	1928.2	1860.8	1787.8	1776.2
62.5°	1921.4	1934.1	1997.8	2090.0	2178.9	2223.9	2194.1	2100.5	2017.1	1929.7	1914.4
65°	2034.8	2049.1	2164.4	2328.7	2490.5	2580.8	2506.1	2333.8	2183.7	2060.2	2040.0
67.5°	1952.5	1969.9	2151.0	2452.8	2855.1	3124.7	2869.0	2489.8	2195.5	2028.4	2003.4
70°	1706.5	1722.9	1934.1	2303.0	2957.8	3548.4	3019.4	2370.8	1940.9	1753.7	1728.7
72.5°	1133.0	1185.6	1399.2	1841.9	2641.1	3283.6	2667.3	1804.5	1298.1	1130.5	1093.8
75°	375.9	417.9	563.8	954.9	1768.9	2455.7	1684.1	844.9	446.6	321.4	304.0
77.5°	94.7	109.2	150.6	273.2	705.6	1398.2	635.2	223.1	121.6	84.9	75.8
80°	46.1	50.8	72.6	91.0	176.7	444.4	165.8	85.6	57.3	44.3	40.6
82.5°	25.4	25.7	41.0	51.6	65.7	115.0	68.2	50.0	33.0	26.9	26.9
85°	15.6	15.3	21.7	27.6	27.6	41.0	32.7	27.6	18.9	16.7	17.4
87.5°	6.1	6.1	8.0	8.7	7.6	10.6	8.3	9.0	7.3	6.9	7.3
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)