

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: P962072

Luminaire Tested: **NAV-SB2B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962072
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-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

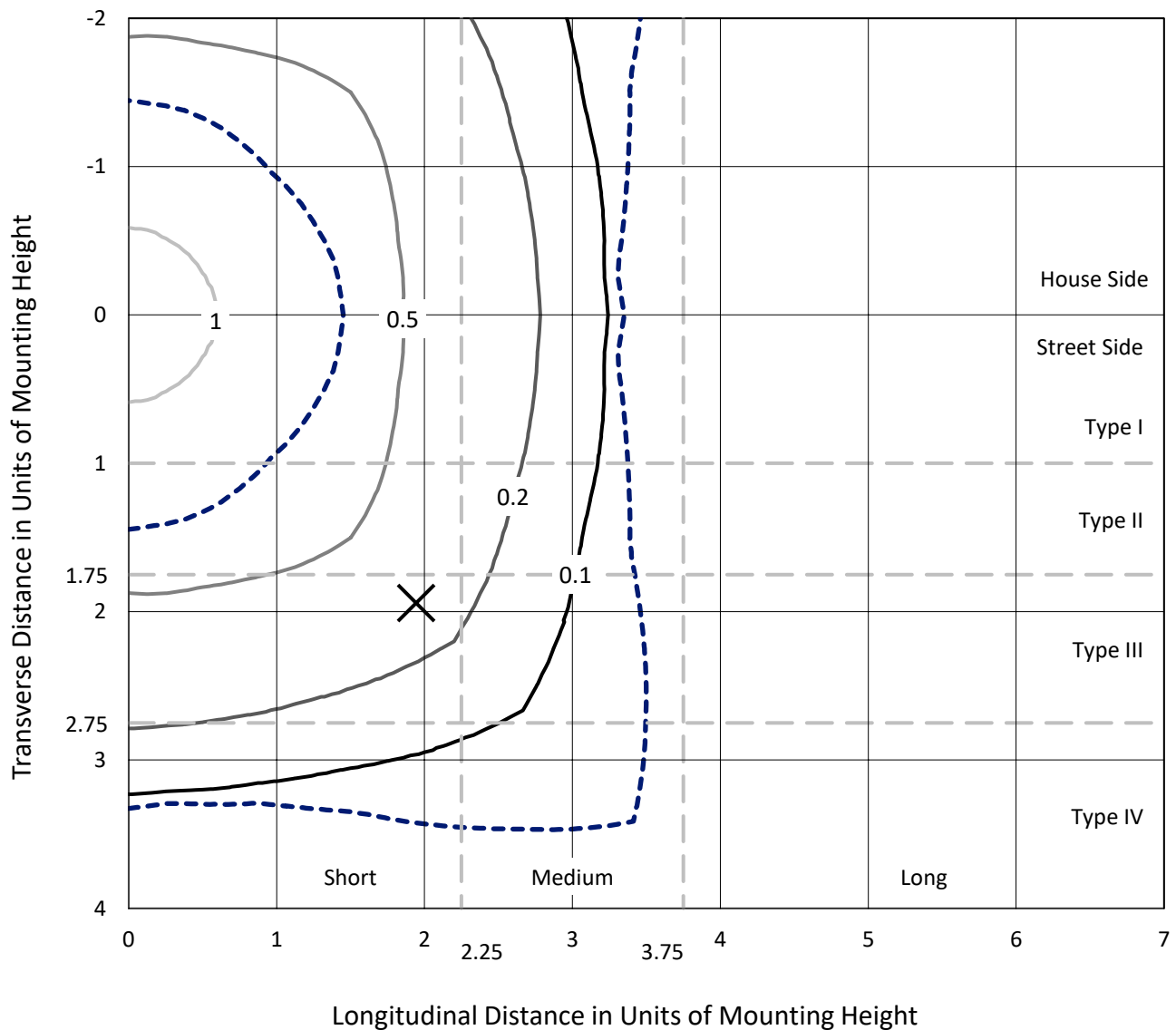
Lumens per Lamp: N/A
Luminaire Lumens: 10490.9 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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



Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

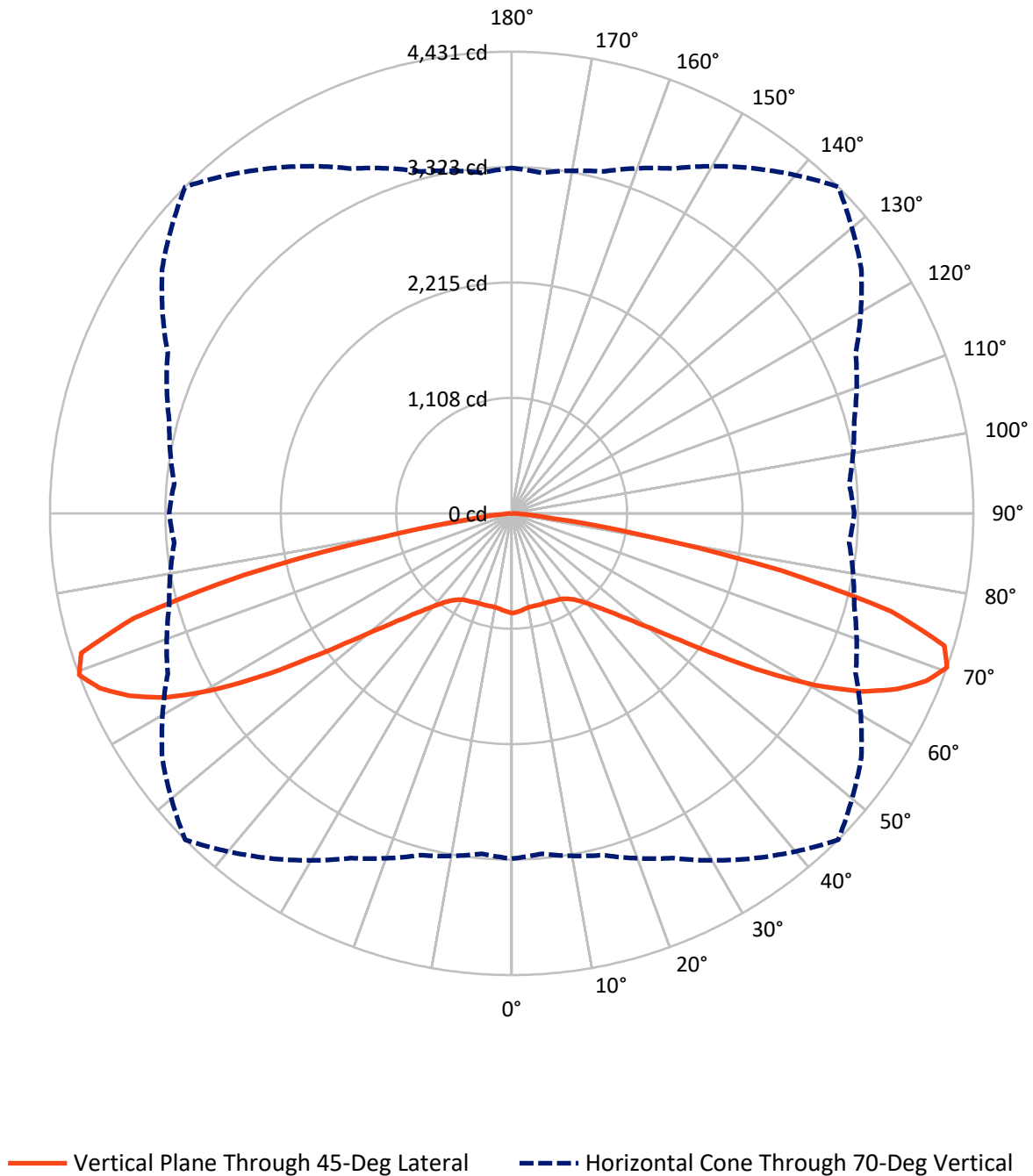


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5245.4	0.0	5245.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5245.4	0.0	5245.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10490.9	0.0	10490.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	0.8
10°-20°	261.4	2.5
20°-30°	435.0	4.1
30°-40°	657.8	6.3
40°-50°	1093.2	10.4
50°-60°	2062.8	19.7
60°-70°	3483.1	33.2
70°-80°	2288.7	21.8
80°-90°	119.9	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°	10490.9	100.0
0°-180°	10490.9	100.0

Coefficient of Utilization



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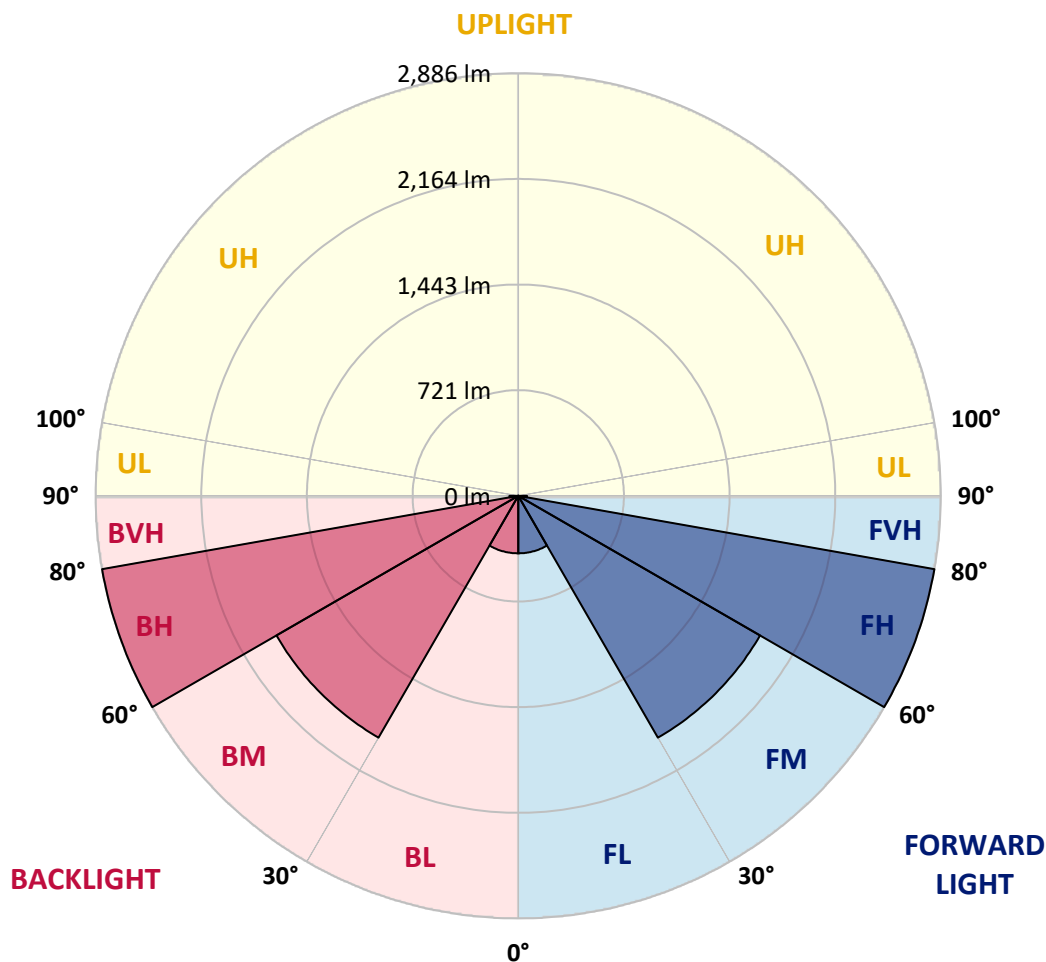
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.7	3.7			
FM	(30°-60°)	1906.9	18.2			
FH	(60°-80°)	2885.9	27.5			G2/5000
FVH	(80°-90°)	60.0	0.6			G1/100
BL	(0°-30°)	392.7	3.7	B1/500		
BM	(30°-60°)	1906.9	18.2	B2/2500		
BH	(60°-80°)	2885.9	27.5	B4/5000		G2/5000
BVH	(80°-90°)	60.0	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°	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9
2.5°	951.0	953.7	952.6	950.5	950.5	948.8	950.5	951.5	953.1	954.3	953.7
5°	938.5	940.6	940.0	938.5	939.0	937.4	938.5	940.0	941.2	941.7	941.7
7.5°	927.5	929.7	928.6	925.9	925.9	924.2	924.9	926.4	928.0	928.6	928.6
10°	924.9	927.0	923.7	919.3	917.7	915.5	916.0	917.7	921.0	922.6	922.6
12.5°	925.9	927.5	924.2	917.7	916.0	913.9	913.9	915.5	919.9	922.1	922.6
15°	929.2	930.8	925.9	918.8	917.2	915.5	915.0	917.2	922.1	925.9	926.4
17.5°	935.2	936.8	929.2	919.3	917.2	917.7	917.2	918.8	926.4	933.6	933.6
20°	940.6	941.7	931.3	919.3	917.2	917.7	917.2	920.4	930.3	940.0	940.6
22.5°	942.3	943.3	933.6	923.2	921.6	922.1	921.6	924.9	934.1	943.9	943.9
25°	942.8	944.4	936.8	928.6	931.3	932.4	931.3	931.9	939.0	947.7	947.2
27.5°	951.0	953.1	946.1	939.0	940.6	940.0	941.7	943.3	948.8	957.6	955.3
30°	967.9	969.5	963.5	956.4	955.3	951.5	956.4	961.9	967.9	975.5	973.9
32.5°	995.7	999.0	991.4	983.7	978.8	976.6	980.4	989.7	997.8	1006.0	1002.8
35°	1042.0	1044.3	1037.1	1023.0	1014.2	1014.2	1017.5	1029.5	1042.6	1053.0	1049.1
37.5°	1107.5	1110.2	1097.7	1080.8	1067.6	1067.6	1072.0	1084.6	1104.2	1118.9	1113.5
40°	1187.1	1190.9	1175.1	1157.6	1145.1	1142.9	1148.4	1162.6	1181.1	1199.7	1193.6
42.5°	1283.1	1287.4	1266.7	1251.4	1241.6	1241.6	1244.4	1257.5	1274.4	1297.2	1295.6
45°	1405.8	1413.4	1385.0	1369.8	1360.5	1362.6	1364.3	1375.8	1391.0	1417.2	1416.1
47.5°	1551.8	1559.5	1529.5	1513.7	1512.1	1522.4	1515.9	1524.1	1532.3	1562.2	1553.5
50°	1717.7	1730.7	1710.0	1708.9	1712.2	1731.3	1716.1	1720.4	1711.1	1730.2	1718.7
52.5°	1920.5	1939.6	1935.8	1942.3	1978.9	2018.1	1983.2	1967.9	1933.0	1939.0	1918.9
55°	2166.4	2195.3	2200.8	2240.0	2323.0	2403.1	2328.9	2267.3	2193.2	2179.6	2158.2
57.5°	2446.2	2469.0	2495.3	2575.4	2730.3	2872.6	2730.3	2594.0	2477.2	2449.4	2429.8
60°	2747.2	2775.5	2800.6	2918.9	3149.0	3349.2	3144.7	2928.2	2773.9	2736.2	2703.5
62.5°	3070.5	3107.1	3124.5	3255.9	3524.2	3763.0	3528.0	3265.8	3094.5	3054.2	3021.4
65°	3380.8	3410.8	3430.4	3570.6	3826.8	4066.2	3844.3	3585.8	3409.7	3356.8	3330.6
67.5°	3525.3	3541.7	3589.7	3748.3	4018.7	4292.0	4064.5	3765.2	3568.3	3475.7	3476.8
70°	3313.7	3280.4	3396.0	3650.1	4041.7	4430.5	4094.1	3642.5	3401.5	3251.0	3287.0
72.5°	2560.7	2503.5	2704.1	3138.7	3779.9	4342.1	3806.1	3163.3	2829.0	2523.5	2599.4
75°	1393.2	1328.3	1605.4	2155.0	3014.3	3763.6	3083.6	2216.6	1787.5	1382.8	1472.8
77.5°	393.2	368.6	592.1	1042.6	1813.1	2642.4	1882.9	1065.5	702.3	416.6	463.0
80°	120.5	116.6	158.2	314.1	770.0	1265.6	739.9	317.9	201.2	127.1	134.2
82.5°	71.4	65.4	78.5	114.5	196.3	397.5	190.9	119.4	95.9	64.4	69.8
85°	40.9	38.1	46.3	55.7	66.0	84.6	55.0	56.7	51.2	34.3	36.0
87.5°	16.9	15.3	18.0	17.4	15.3	19.7	14.8	17.4	20.7	13.6	12.5
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)