

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: P964054

Luminaire Tested: **NAV-SB3B-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964054
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-SB3B-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19187 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 109.2
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



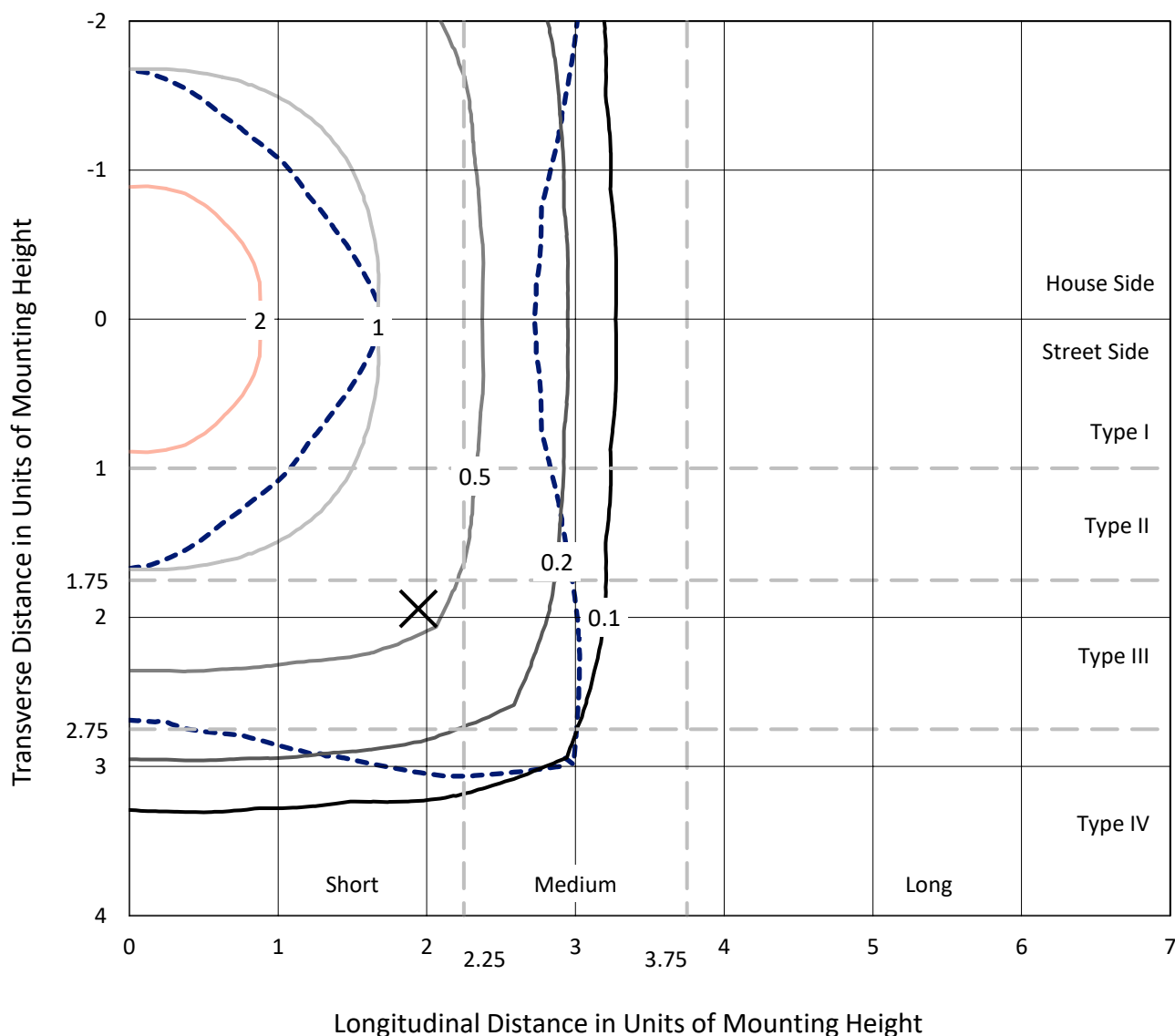
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

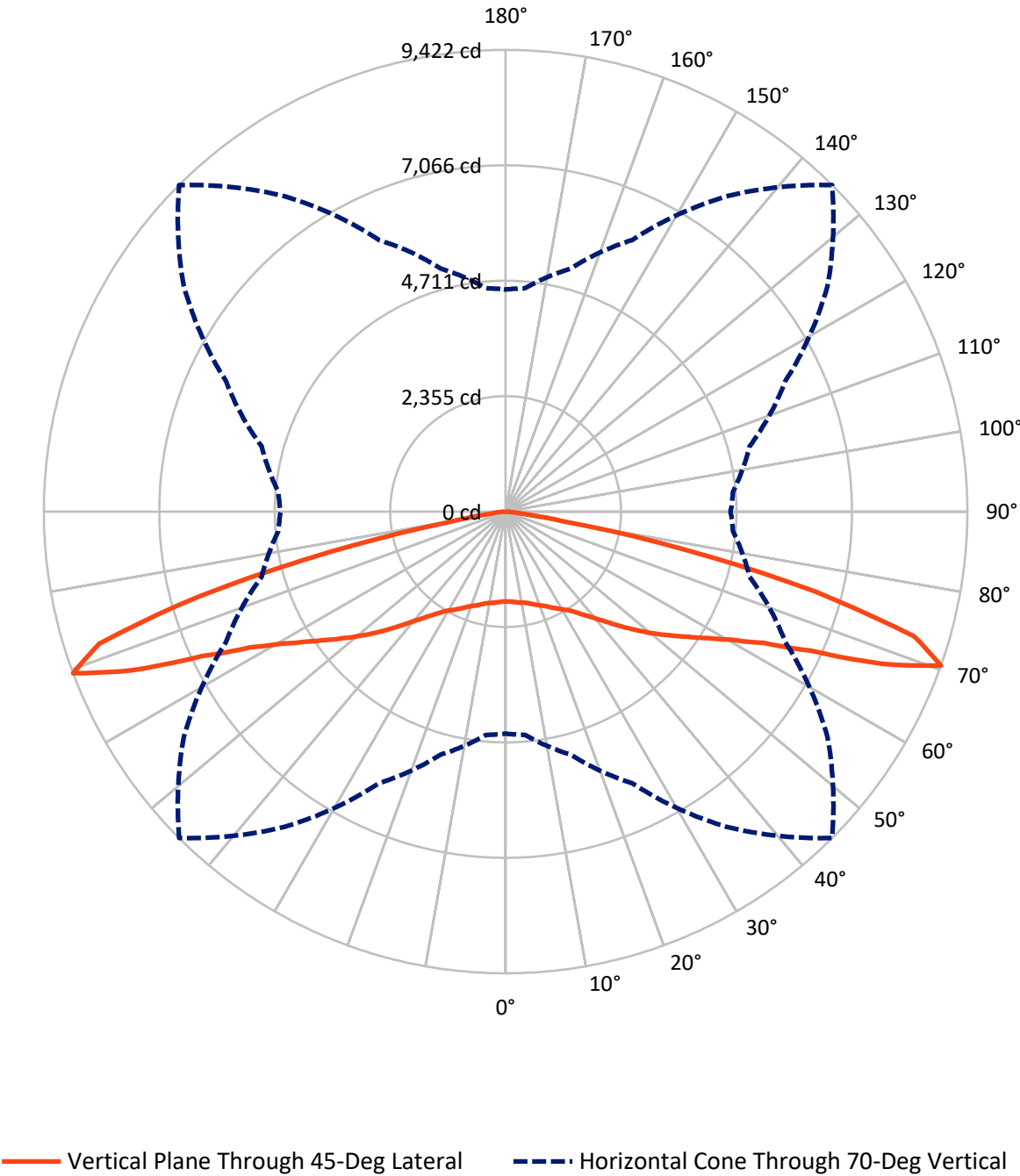


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc

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	9593.5	0.0	9593.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9593.5	0.0	9593.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19187.0	0.0	19187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	0.9
10°-20°	553.7	2.9
20°-30°	989.5	5.2
30°-40°	1603.9	8.4
40°-50°	2612.6	13.6
50°-60°	3983.3	20.8
60°-70°	5925.8	30.9
70°-80°	3229.7	16.8
80°-90°	110.0	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°	19187.0	100.0
0°-180°	19187.0	100.0

Coefficient of Utilization



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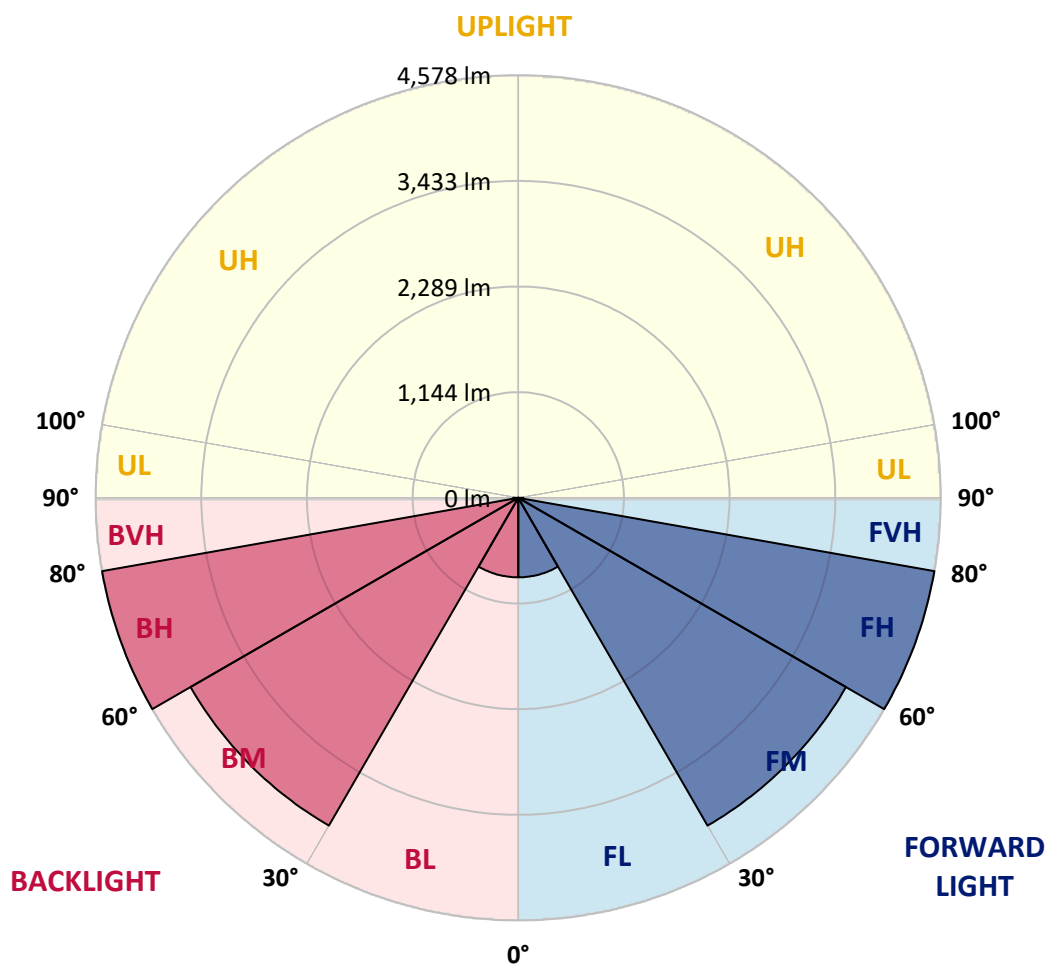
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.9	4.5			
FM	(30°-60°)	4099.9	21.4			
FH	(60°-80°)	4577.8	23.9			G2/5000
FVH	(80°-90°)	55.0	0.3			G1/100
BL	(0°-30°)	860.9	4.5	B2/1000		
BM	(30°-60°)	4099.9	21.4	B3/5000		
BH	(60°-80°)	4577.8	23.9	B4/5000		G2/5000
BVH	(80°-90°)	55.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9
2.5°	1846.5	1848.5	1844.7	1842.7	1840.8	1837.9	1838.8	1843.7	1847.6	1846.5	1847.6
5°	1862.0	1864.0	1861.0	1860.1	1856.2	1855.2	1855.2	1860.1	1862.9	1861.0	1862.0
7.5°	1879.3	1882.2	1877.4	1876.5	1874.5	1872.6	1871.6	1876.5	1879.3	1879.3	1879.3
10°	1895.7	1898.6	1894.7	1891.8	1889.9	1889.9	1888.0	1891.8	1896.7	1895.7	1895.7
12.5°	1913.1	1915.0	1911.1	1909.2	1909.2	1912.0	1909.2	1911.1	1915.0	1913.1	1912.0
15°	1934.3	1935.2	1934.3	1937.1	1942.0	1951.6	1942.9	1940.9	1942.9	1938.1	1938.1
17.5°	1963.2	1965.0	1968.9	1975.7	1982.5	1999.8	1984.3	1979.5	1979.5	1969.8	1969.8
20°	1998.7	2001.6	2007.5	2019.0	2027.7	2044.1	2028.7	2021.9	2019.0	2006.4	2006.4
22.5°	2036.4	2041.2	2049.8	2065.3	2080.6	2096.0	2080.6	2069.1	2060.5	2044.1	2043.1
25°	2079.7	2085.5	2099.0	2124.0	2145.2	2167.4	2149.0	2126.0	2108.6	2085.5	2084.5
27.5°	2141.3	2148.1	2164.5	2195.2	2222.3	2241.6	2224.1	2194.3	2170.2	2142.4	2141.3
30°	2228.0	2234.8	2254.1	2286.8	2305.1	2317.6	2306.0	2283.0	2254.1	2222.3	2222.3
32.5°	2339.8	2348.5	2369.6	2400.4	2404.3	2406.3	2402.4	2390.8	2369.6	2331.2	2332.1
35°	2481.4	2491.1	2515.0	2540.2	2536.3	2540.2	2534.3	2530.5	2515.0	2470.8	2470.8
37.5°	2654.7	2666.3	2691.3	2710.6	2701.0	2696.2	2697.2	2698.1	2689.4	2640.3	2640.3
40°	2856.1	2871.5	2889.8	2910.1	2893.7	2879.2	2888.9	2896.5	2888.9	2838.7	2838.7
42.5°	3063.2	3085.4	3104.6	3133.5	3120.0	3101.8	3115.2	3123.9	3107.5	3053.6	3057.4
45°	3293.4	3314.6	3339.7	3383.0	3373.4	3354.1	3373.4	3375.3	3347.3	3283.8	3290.6
47.5°	3531.3	3553.5	3591.1	3648.9	3645.0	3623.8	3648.9	3635.4	3599.7	3523.6	3518.8
50°	3756.7	3787.6	3845.4	3926.3	3934.0	3908.0	3941.7	3915.7	3855.9	3760.6	3758.7
52.5°	3968.7	4001.4	4092.9	4202.7	4230.7	4197.0	4242.3	4197.0	4107.4	3985.0	3973.5
55°	4191.2	4227.8	4336.7	4480.2	4536.0	4511.0	4553.4	4485.0	4357.8	4209.5	4189.3
57.5°	4453.2	4475.4	4605.4	4775.9	4870.3	4876.0	4895.3	4779.8	4625.6	4457.0	4433.9
60°	4737.3	4768.2	4909.8	5114.0	5263.3	5311.4	5291.3	5119.8	4940.6	4747.0	4716.1
62.5°	5101.4	5135.1	5304.7	5549.3	5785.4	5904.8	5825.8	5577.3	5355.7	5123.7	5083.2
65°	5403.0	5440.5	5746.9	6183.2	6612.8	6852.6	6654.3	6196.7	5797.9	5470.4	5416.4
67.5°	5184.3	5230.6	5711.2	6512.6	7580.9	8296.7	7617.5	6610.9	5829.7	5385.7	5319.1
70°	4531.2	4574.6	5135.1	6114.8	7853.6	9421.7	8017.2	6294.9	5153.5	4656.5	4590.0
72.5°	3008.3	3148.0	3715.3	4890.5	7012.5	8718.5	7081.9	4791.3	3446.6	3001.5	2904.2
75°	997.9	1109.7	1496.9	2535.3	4696.9	6520.3	4471.5	2243.4	1185.8	853.4	807.2
77.5°	251.4	290.0	399.7	725.3	1873.6	3712.4	1686.6	592.4	322.7	225.4	201.3
80°	122.4	134.9	192.7	241.8	469.1	1180.0	440.2	227.3	152.2	117.6	107.9
82.5°	67.4	68.4	108.9	136.7	174.4	305.3	181.1	132.9	87.6	71.2	71.2
85°	41.4	40.5	57.8	73.2	73.2	108.9	86.7	73.2	50.1	44.3	46.2
87.5°	16.4	16.4	21.2	23.2	20.2	28.0	22.1	24.1	19.3	18.3	19.3
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)