

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: P883262

Luminaire Tested: **NAV-SB3C-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24497 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

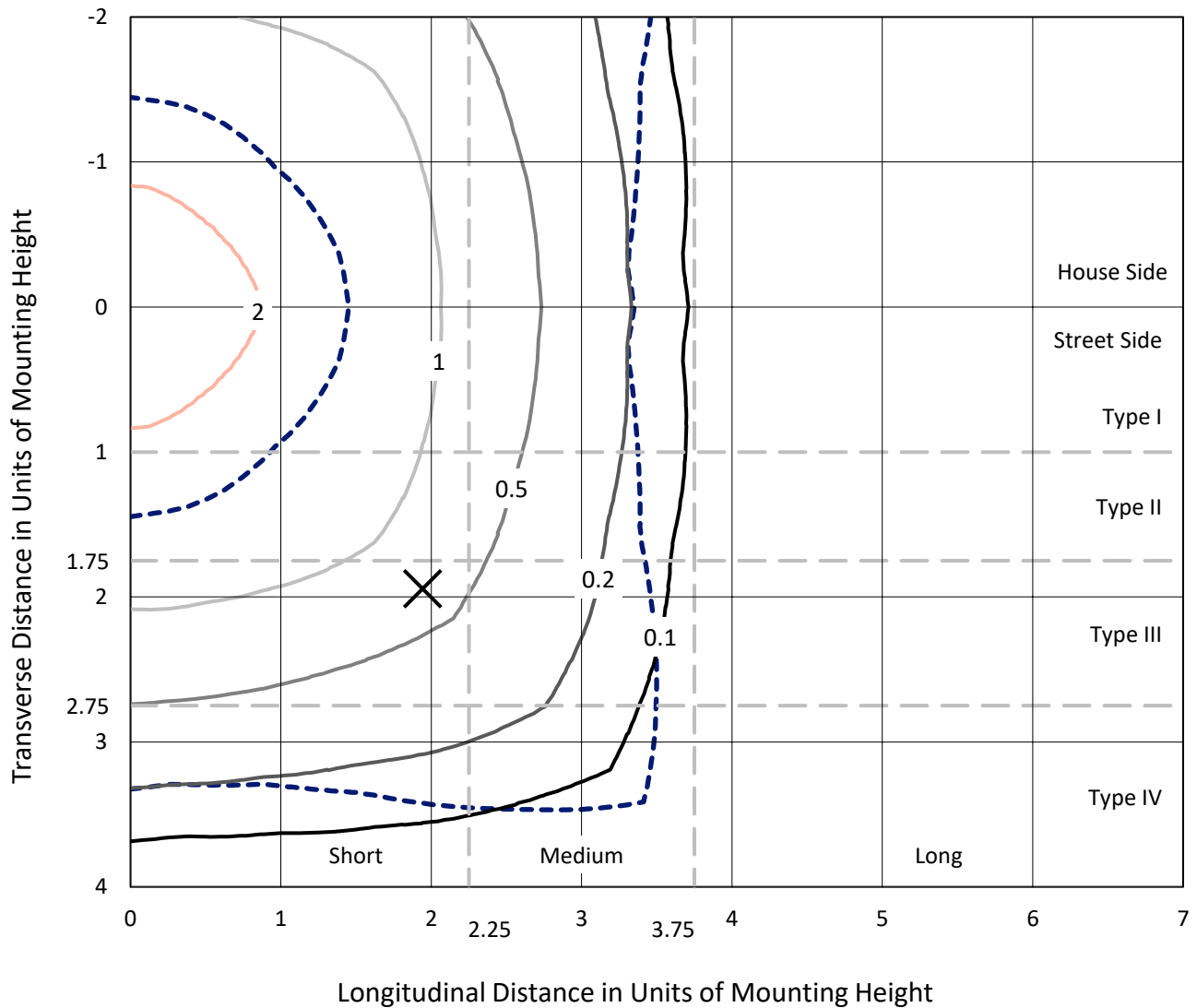
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

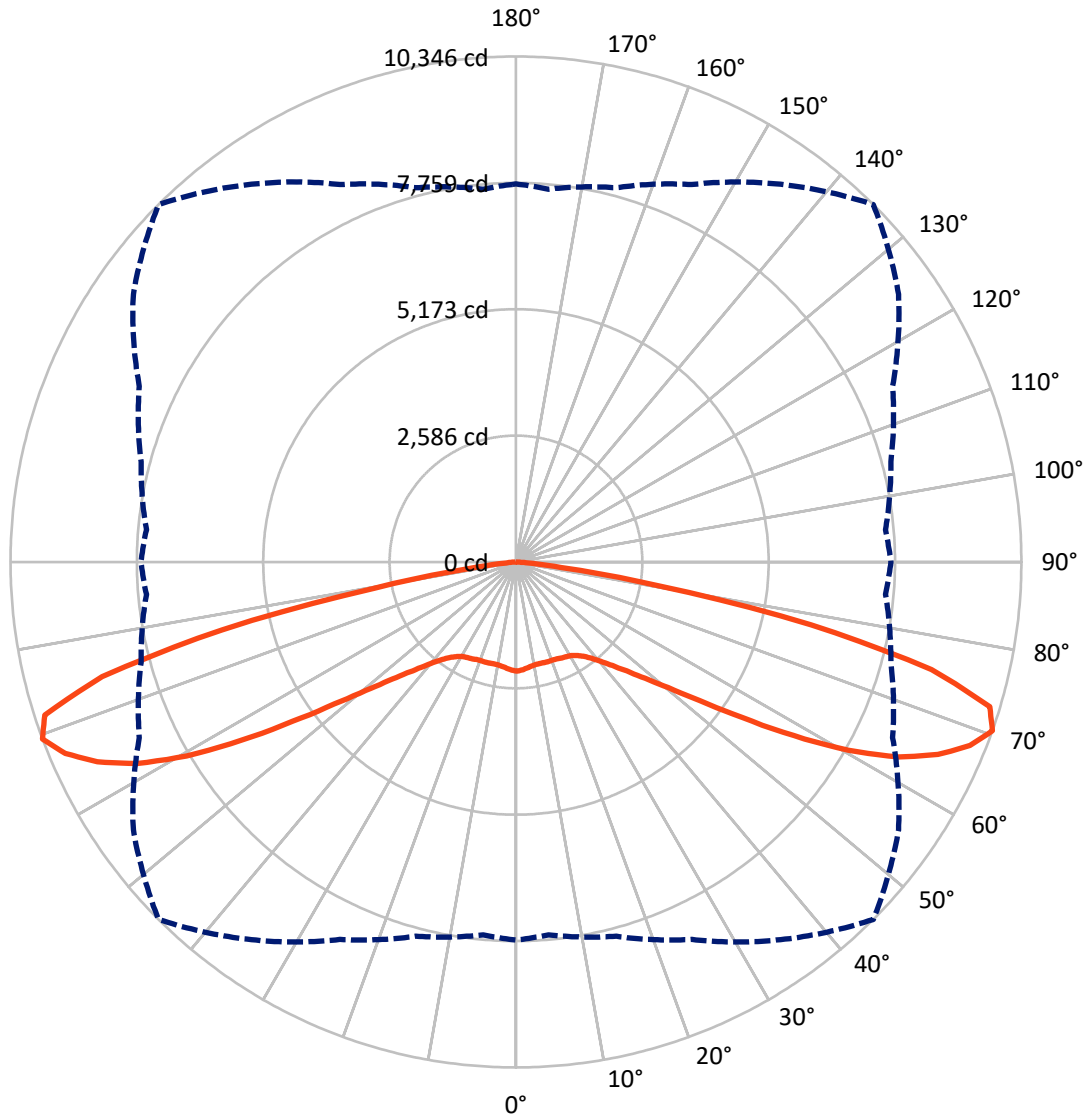
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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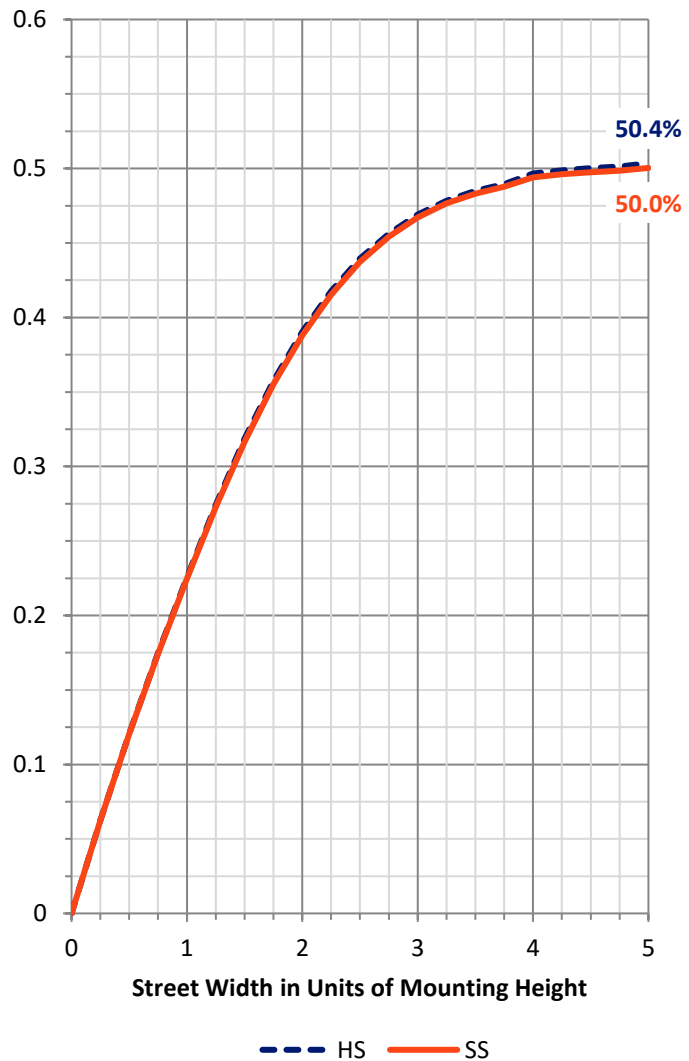
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12248.5	0.0	12248.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12248.5	0.0	12248.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24497.0	0.0	24497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	0.8
10°-20°	610.4	2.5
20°-30°	1015.7	4.1
30°-40°	1536.1	6.3
40°-50°	2552.6	10.4
50°-60°	4816.7	19.7
60°-70°	8133.2	33.2
70°-80°	5344.4	21.8
80°-90°	280.0	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°	24497.0	100.0
0°-180°	24497.0	100.0

Coefficient of Utilization



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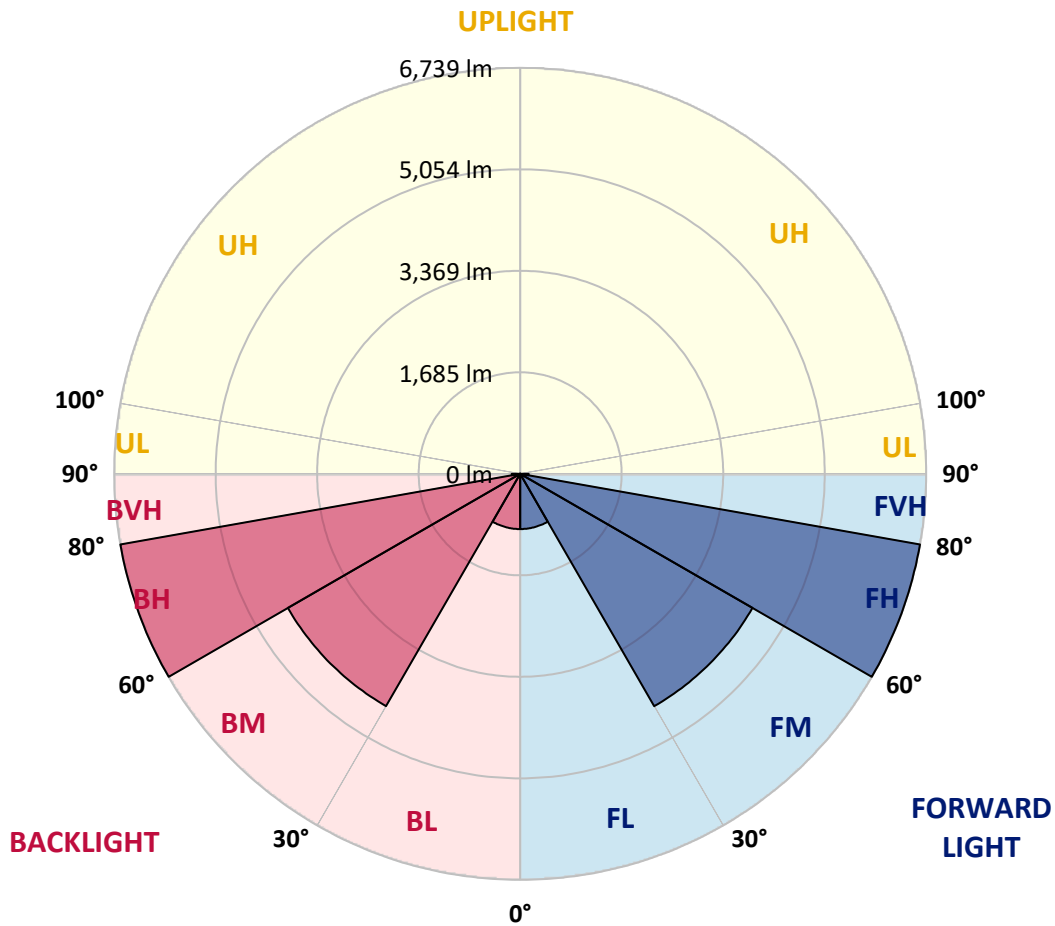
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.0	3.7			
FM (30°-60°)	4452.7	18.2			
FH (60°-80°)	6738.8	27.5			G3/7500
FVH (80°-90°)	140.0	0.6			G2/225
BL (0°-30°)	917.0	3.7	B2/1000		
BM (30°-60°)	4452.7	18.2	B3/5000		
BH (60°-80°)	6738.8	27.5	B5		G3/7500
BVH (80°-90°)	140.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6	2234.6
2.5°	2220.6	2227.0	2224.4	2219.3	2219.3	2215.5	2219.3	2221.9	2225.7	2228.3	2227.0
5°	2191.3	2196.4	2195.1	2191.3	2192.6	2188.8	2191.3	2195.1	2197.7	2199.0	2199.0
7.5°	2165.9	2171.0	2168.4	2162.0	2162.0	2158.2	2159.5	2163.3	2167.1	2168.4	2168.4
10°	2159.5	2164.6	2156.9	2146.8	2142.9	2137.8	2139.1	2142.9	2150.6	2154.4	2154.4
12.5°	2162.0	2165.9	2158.2	2142.9	2139.1	2134.0	2134.0	2137.8	2148.0	2153.1	2154.4
15°	2169.7	2173.5	2162.0	2145.5	2141.7	2137.8	2136.6	2141.7	2153.1	2162.0	2163.3
17.5°	2183.7	2187.5	2169.7	2146.8	2141.7	2142.9	2141.7	2145.5	2163.3	2179.9	2179.9
20°	2196.4	2199.0	2174.8	2146.8	2141.7	2142.9	2141.7	2149.3	2172.2	2195.1	2196.4
22.5°	2200.2	2202.8	2179.9	2155.7	2151.9	2153.1	2151.9	2159.5	2181.1	2204.1	2204.1
25°	2201.5	2205.3	2187.5	2168.4	2174.8	2177.3	2174.8	2176.0	2192.6	2213.0	2211.7
27.5°	2220.6	2225.7	2209.2	2192.6	2196.4	2195.1	2199.0	2202.8	2215.5	2235.9	2230.8
30°	2260.1	2263.9	2249.9	2233.3	2230.8	2221.9	2233.3	2246.1	2260.1	2277.9	2274.1
32.5°	2325.0	2332.7	2314.8	2297.0	2285.6	2280.5	2289.4	2311.0	2330.1	2349.2	2341.6
35°	2433.3	2438.3	2421.8	2388.7	2368.3	2368.3	2376.0	2404.0	2434.5	2458.7	2449.8
37.5°	2586.0	2592.4	2563.1	2523.7	2493.1	2493.1	2503.3	2532.6	2578.4	2612.8	2600.1
40°	2771.9	2780.9	2743.9	2703.2	2673.9	2668.8	2681.5	2714.6	2757.9	2801.2	2787.2
42.5°	2996.0	3006.2	2957.8	2922.2	2899.3	2899.3	2905.6	2936.2	2975.7	3029.2	3025.3
45°	3282.5	3300.4	3234.2	3198.5	3176.9	3181.9	3185.8	3212.5	3248.2	3309.3	3306.7
47.5°	3623.8	3641.6	3571.6	3534.6	3530.8	3555.0	3539.7	3558.8	3577.9	3648.0	3627.6
50°	4010.9	4041.4	3993.0	3990.5	3998.1	4042.7	4007.0	4017.2	3995.6	4040.1	4013.4
52.5°	4484.5	4529.1	4520.2	4535.5	4620.8	4712.4	4630.9	4595.3	4513.8	4527.8	4480.7
55°	5058.8	5126.3	5139.0	5230.7	5424.2	5611.4	5438.2	5294.3	5121.2	5089.3	5039.7
57.5°	5712.0	5765.4	5826.6	6013.7	6375.4	6707.7	6375.4	6057.0	5784.5	5719.6	5673.8
60°	6414.8	6481.0	6539.6	6815.9	7353.2	7820.5	7343.0	6837.6	6477.2	6389.4	6313.0
62.5°	7169.9	7255.2	7295.9	7602.8	8229.3	8787.0	8238.2	7625.7	7225.9	7131.7	7055.3
65°	7894.4	7964.4	8010.3	8337.5	8935.9	9494.9	8976.7	8373.1	7961.9	7838.4	7777.2
67.5°	8231.8	8270.0	8382.1	8752.6	9384.1	10022.0	9491.1	8792.1	8332.4	8115.9	8118.5
70°	7737.8	7660.1	7930.0	8523.4	9437.6	10345.5	9559.8	8505.6	7942.8	7591.3	7675.4
72.5°	5979.4	5845.7	6314.2	7329.0	8826.4	10139.2	8887.5	7386.3	6605.8	5892.8	6069.8
75°	3253.2	3101.7	3748.6	5032.0	7038.7	8788.2	7200.4	5175.9	4173.8	3229.1	3439.1
77.5°	918.0	860.7	1382.8	2434.5	4233.7	6170.4	4396.7	2488.0	1640.0	972.8	1081.0
80°	281.4	272.5	369.3	733.4	1797.9	2955.3	1727.9	742.3	469.8	296.7	313.2
82.5°	166.8	152.8	183.4	267.4	458.4	928.2	445.7	278.8	224.1	150.2	163.0
85°	95.5	89.1	108.2	129.9	154.1	197.4	128.6	132.4	119.7	80.2	84.0
87.5°	39.5	35.7	42.0	40.7	35.7	45.8	34.4	40.7	48.4	31.8	29.3
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)