

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: P884502

Luminaire Tested: **NAV-SB5B-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884502
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-SB5B-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24387 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

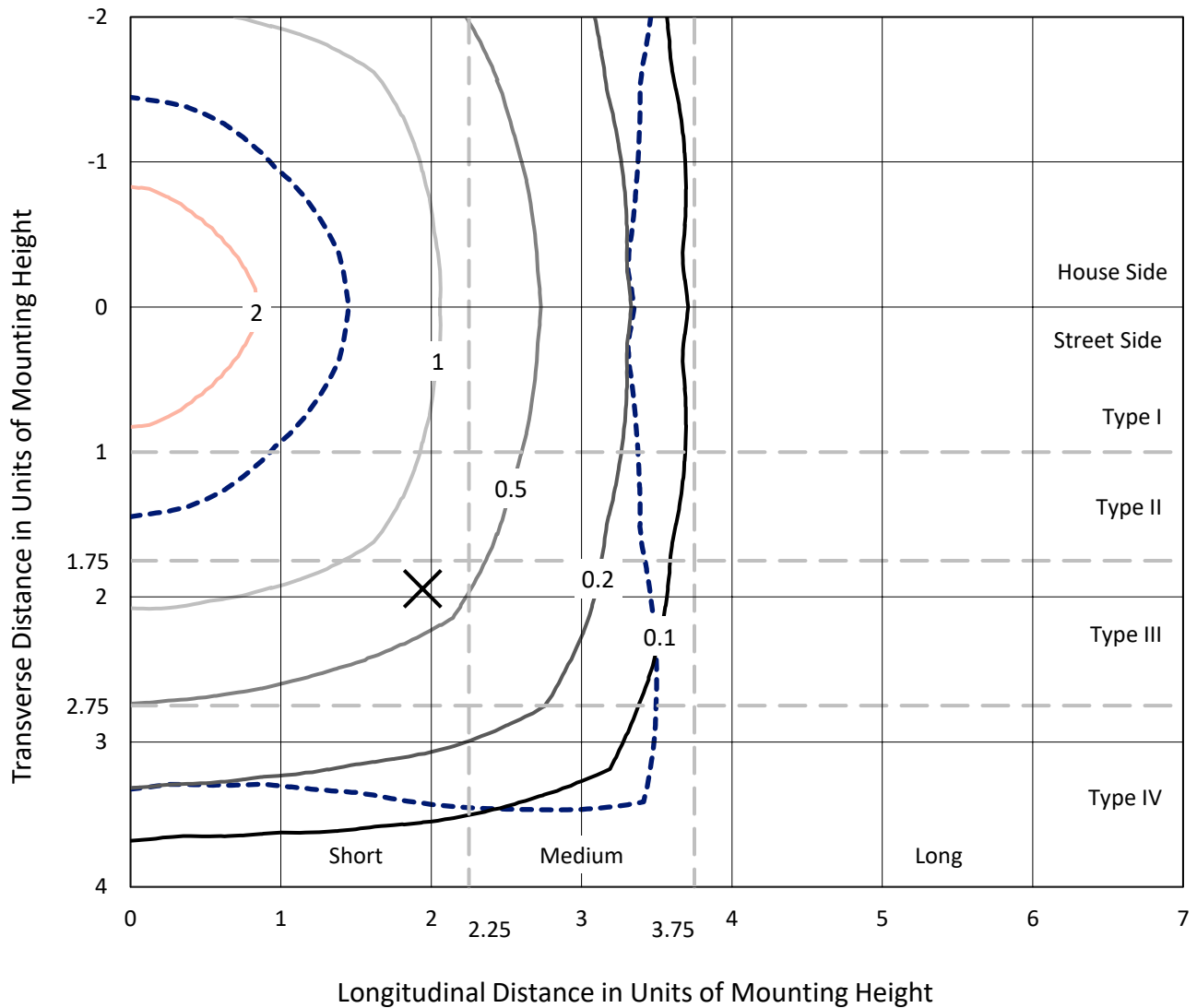
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

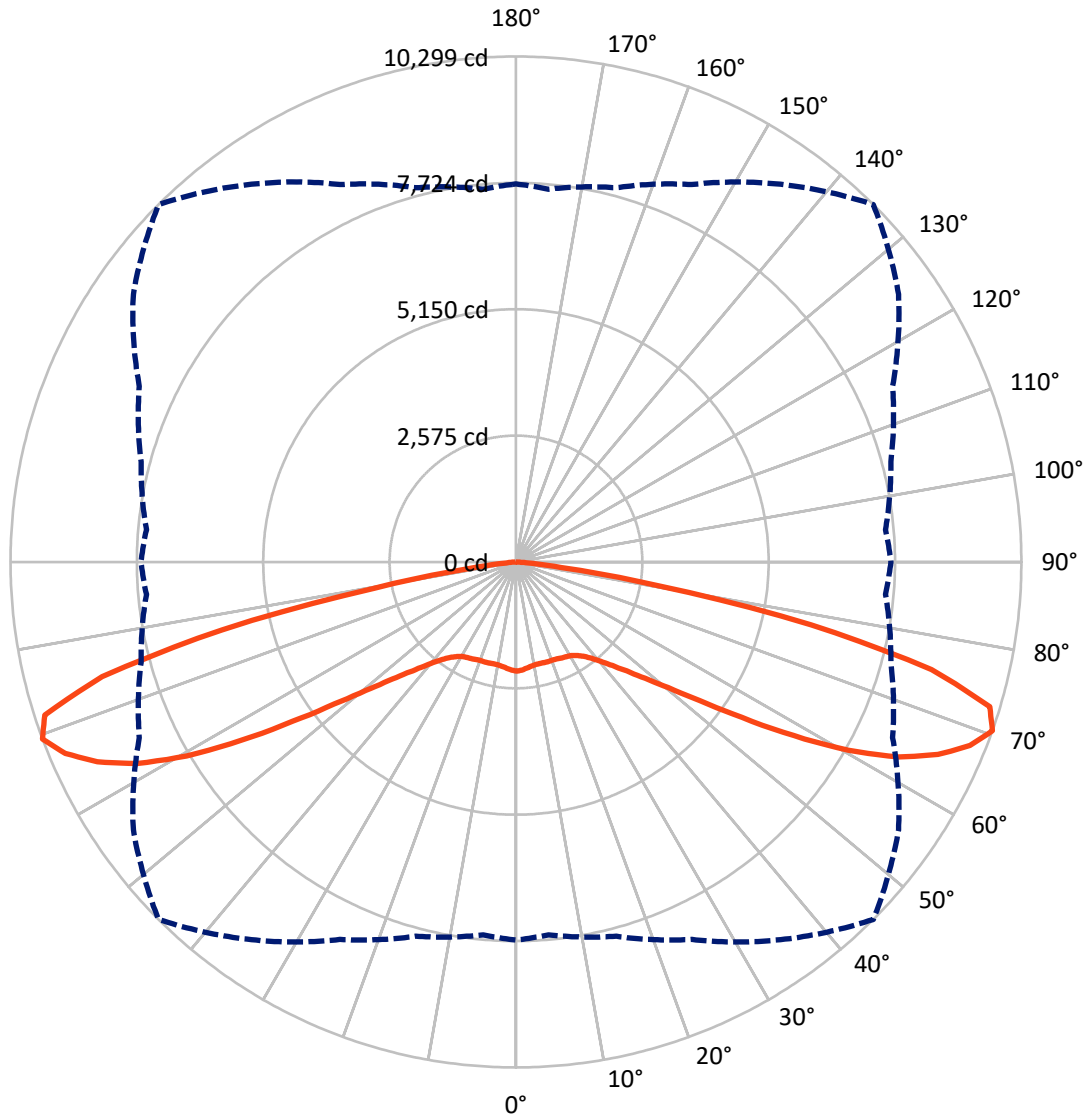
✕ Max cd
 - - - 1/2 Max cd



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	12193.5	0.0	12193.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12193.5	0.0	12193.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24387.0	0.0	24387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	0.8
10°-20°	607.6	2.5
20°-30°	1011.2	4.1
30°-40°	1529.2	6.3
40°-50°	2541.2	10.4
50°-60°	4795.1	19.7
60°-70°	8096.7	33.2
70°-80°	5320.4	21.8
80°-90°	278.7	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°	24387.0	100.0
0°-180°	24387.0	100.0



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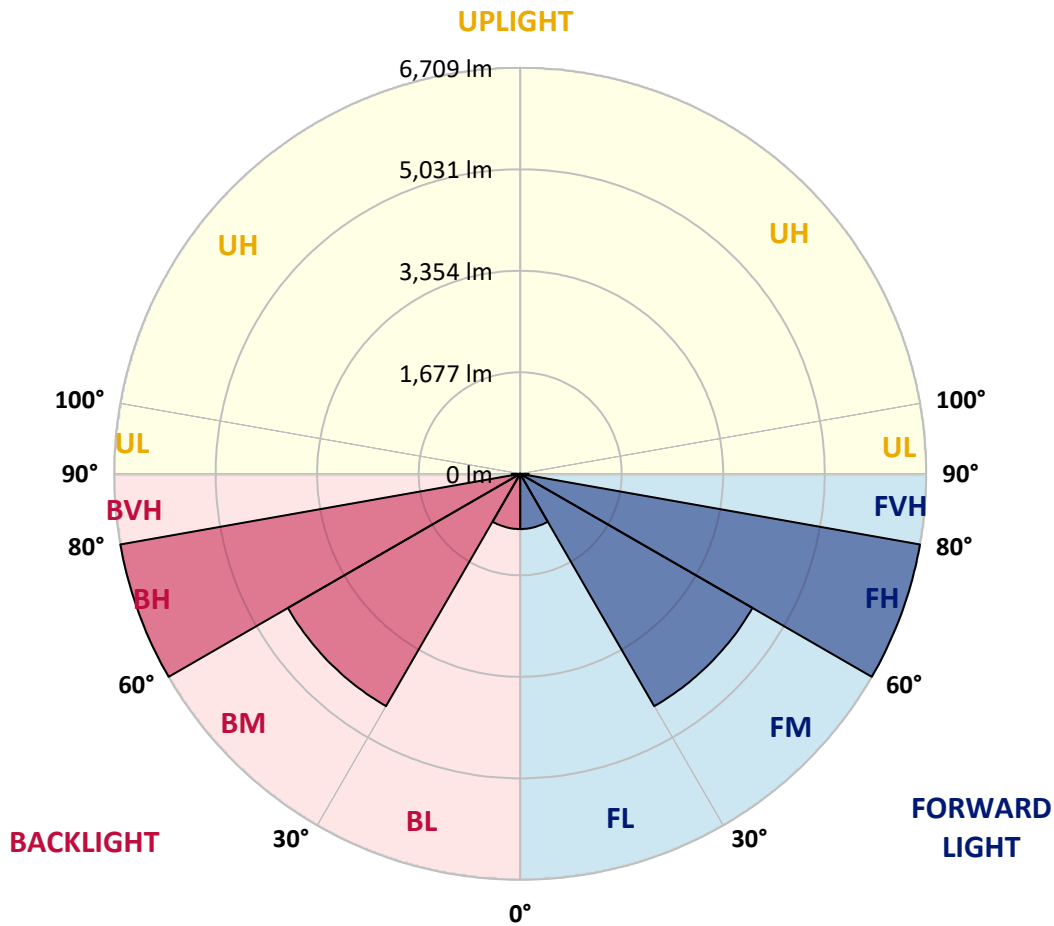
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.9	3.7			
FM (30°-60°)	4432.7	18.2			
FH (60°-80°)	6708.5	27.5			G3/7500
FVH (80°-90°)	139.4	0.6			G2/225
BL (0°-30°)	912.9	3.7	B2/1000		
BM (30°-60°)	4432.7	18.2	B3/5000		
BH (60°-80°)	6708.5	27.5	B5		G3/7500
BVH (80°-90°)	139.4	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°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
2.5°	2210.6	2217.0	2214.4	2209.4	2209.4	2205.6	2209.4	2211.9	2215.7	2218.2	2217.0
5°	2181.5	2186.6	2185.3	2181.5	2182.8	2179.0	2181.5	2185.3	2187.8	2189.1	2189.1
7.5°	2156.1	2161.2	2158.7	2152.3	2152.3	2148.5	2149.8	2153.6	2157.4	2158.7	2158.7
10°	2149.8	2154.9	2147.3	2137.1	2133.3	2128.3	2129.5	2133.3	2140.9	2144.7	2144.7
12.5°	2152.3	2156.1	2148.5	2133.3	2129.5	2124.4	2124.4	2128.3	2138.4	2143.5	2144.7
15°	2159.9	2163.7	2152.3	2135.9	2132.1	2128.3	2127.0	2132.1	2143.5	2152.3	2153.6
17.5°	2173.9	2177.7	2159.9	2137.1	2132.1	2133.3	2132.1	2135.9	2153.6	2170.1	2170.1
20°	2186.6	2189.1	2165.0	2137.1	2132.1	2133.3	2132.1	2139.7	2162.5	2185.3	2186.6
22.5°	2190.4	2192.9	2170.1	2146.0	2142.2	2143.5	2142.2	2149.8	2171.3	2194.2	2194.2
25°	2191.6	2195.4	2177.7	2158.7	2165.0	2167.5	2165.0	2166.3	2182.8	2203.0	2201.8
27.5°	2210.6	2215.7	2199.2	2182.8	2186.6	2185.3	2189.1	2192.9	2205.6	2225.9	2220.8
30°	2249.9	2253.7	2239.8	2223.3	2220.8	2211.9	2223.3	2236.0	2249.9	2267.7	2263.9
32.5°	2314.6	2322.2	2304.4	2286.7	2275.3	2270.2	2279.1	2300.6	2319.7	2338.7	2331.1
35°	2422.3	2427.4	2410.9	2378.0	2357.7	2357.7	2365.3	2393.2	2423.6	2447.7	2438.8
37.5°	2574.4	2580.8	2551.6	2512.3	2481.9	2481.9	2492.0	2521.2	2566.8	2601.1	2588.4
40°	2759.5	2768.4	2731.6	2691.1	2661.9	2656.8	2669.5	2702.5	2745.6	2788.7	2774.7
42.5°	2982.6	2992.7	2944.6	2909.1	2886.3	2886.3	2892.6	2923.0	2962.3	3015.5	3011.7
45°	3267.8	3285.5	3219.6	3184.1	3162.6	3167.7	3171.5	3198.1	3233.6	3294.4	3291.9
47.5°	3607.5	3625.3	3555.5	3518.8	3515.0	3539.1	3523.8	3542.9	3561.9	3631.6	3611.3
50°	3992.8	4023.3	3975.1	3972.6	3980.2	4024.5	3989.0	3999.2	3977.6	4022.0	3995.4
52.5°	4464.4	4508.7	4499.9	4515.1	4600.0	4691.3	4610.2	4574.7	4493.5	4507.5	4460.6
55°	5036.1	5103.2	5115.9	5207.2	5399.8	5586.2	5413.8	5270.6	5098.2	5066.5	5017.0
57.5°	5686.3	5739.6	5800.4	5986.7	6346.7	6677.6	6346.7	6029.8	5758.6	5693.9	5648.3
60°	6386.0	6451.9	6510.2	6785.3	7320.2	7785.4	7310.1	6806.9	6448.1	6360.7	6284.6
62.5°	7137.7	7222.6	7263.2	7568.7	8192.3	8747.5	8201.2	7591.5	7193.5	7099.7	7023.6
65°	7858.9	7928.7	7974.3	8300.0	8895.8	9452.3	8936.4	8335.5	7926.1	7803.2	7742.3
67.5°	8194.8	8232.9	8344.4	8713.3	9342.0	9977.0	9448.5	8752.6	8295.0	8079.5	8082.0
70°	7703.0	7625.7	7894.4	8485.1	9395.2	10299.0	9516.9	8467.4	7907.1	7557.3	7640.9
72.5°	5952.5	5819.4	6285.9	7296.1	8786.8	10093.7	8847.6	7353.2	6576.2	5866.3	6042.5
75°	3238.6	3087.8	3731.7	5009.4	7007.1	8748.8	7168.1	5152.7	4155.1	3214.6	3423.7
77.5°	913.9	856.9	1376.6	2423.6	4214.7	6142.6	4376.9	2476.8	1632.6	968.4	1076.2
80°	280.1	271.3	367.6	730.1	1789.8	2942.0	1720.1	739.0	467.7	295.3	311.8
82.5°	166.1	152.1	182.5	266.2	456.3	924.1	443.6	277.6	223.1	149.6	162.2
85°	95.1	88.7	107.7	129.3	153.4	196.5	128.0	131.8	119.2	79.9	83.7
87.5°	39.3	35.5	41.8	40.6	35.5	45.6	34.2	40.6	48.2	31.7	29.2
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)