

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: P968365

Luminaire Tested: **NAV-SB5B-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968365
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-SB5B-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25644.5 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 182.7
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



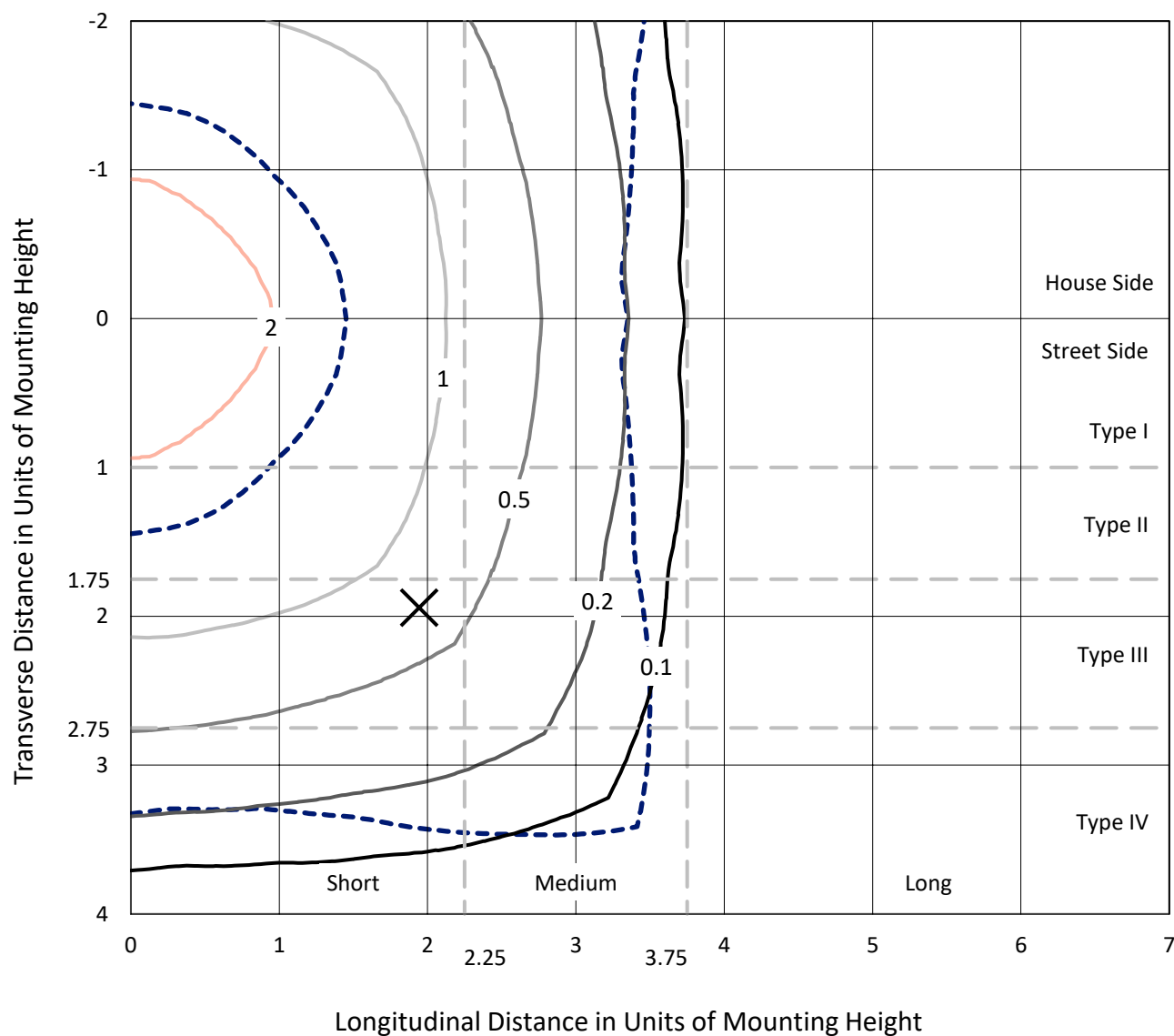
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

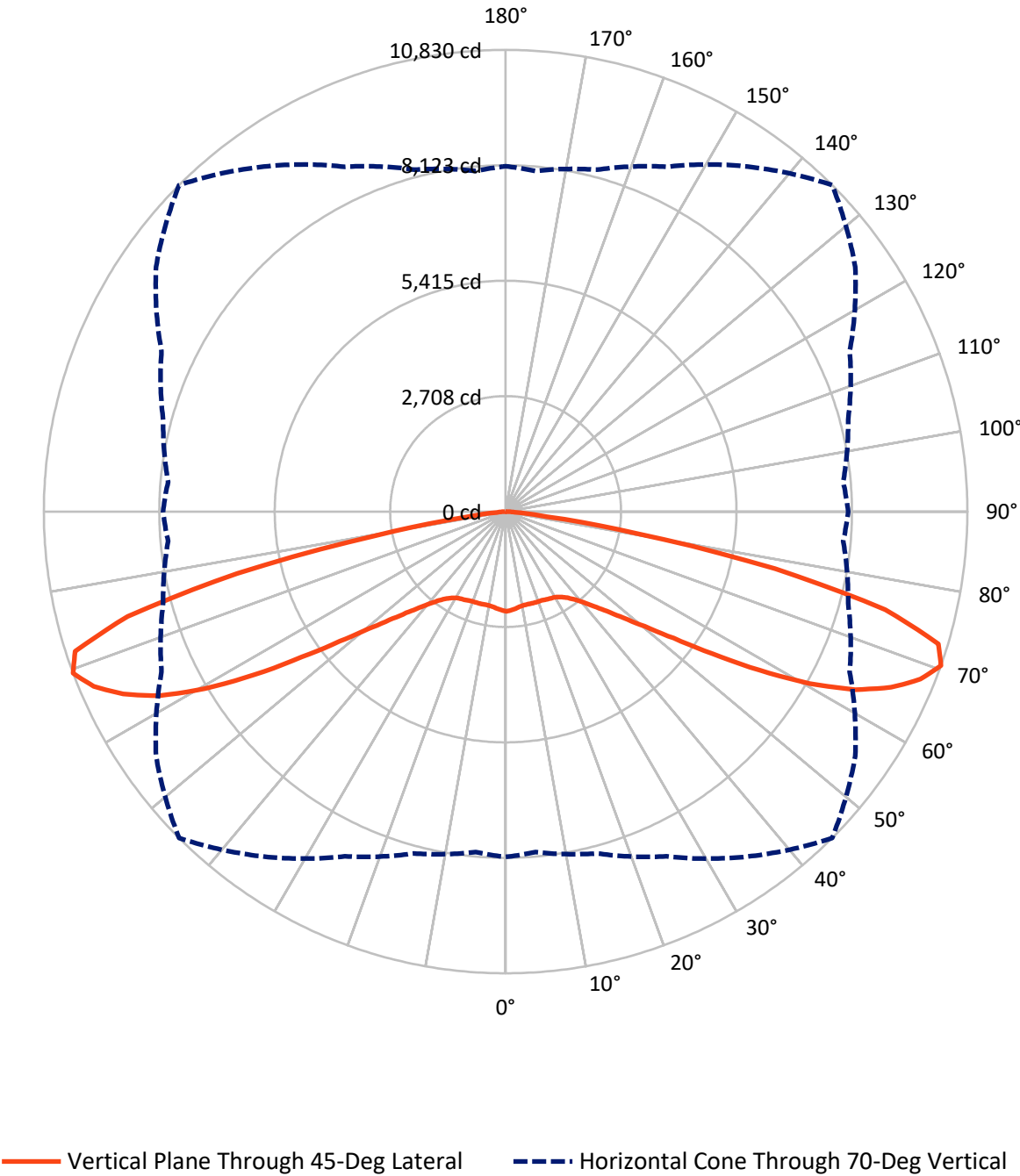


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

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	12822.2	0.0	12822.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12822.2	0.0	12822.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	25644.5	0.0	25644.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	0.8
10°-20°	639.0	2.5
20°-30°	1063.3	4.1
30°-40°	1608.1	6.3
40°-50°	2672.2	10.4
50°-60°	5042.3	19.7
60°-70°	8514.2	33.2
70°-80°	5594.7	21.8
80°-90°	293.1	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°	25644.5	100.0
0°-180°	25644.5	100.0

Coefficient of Utilization



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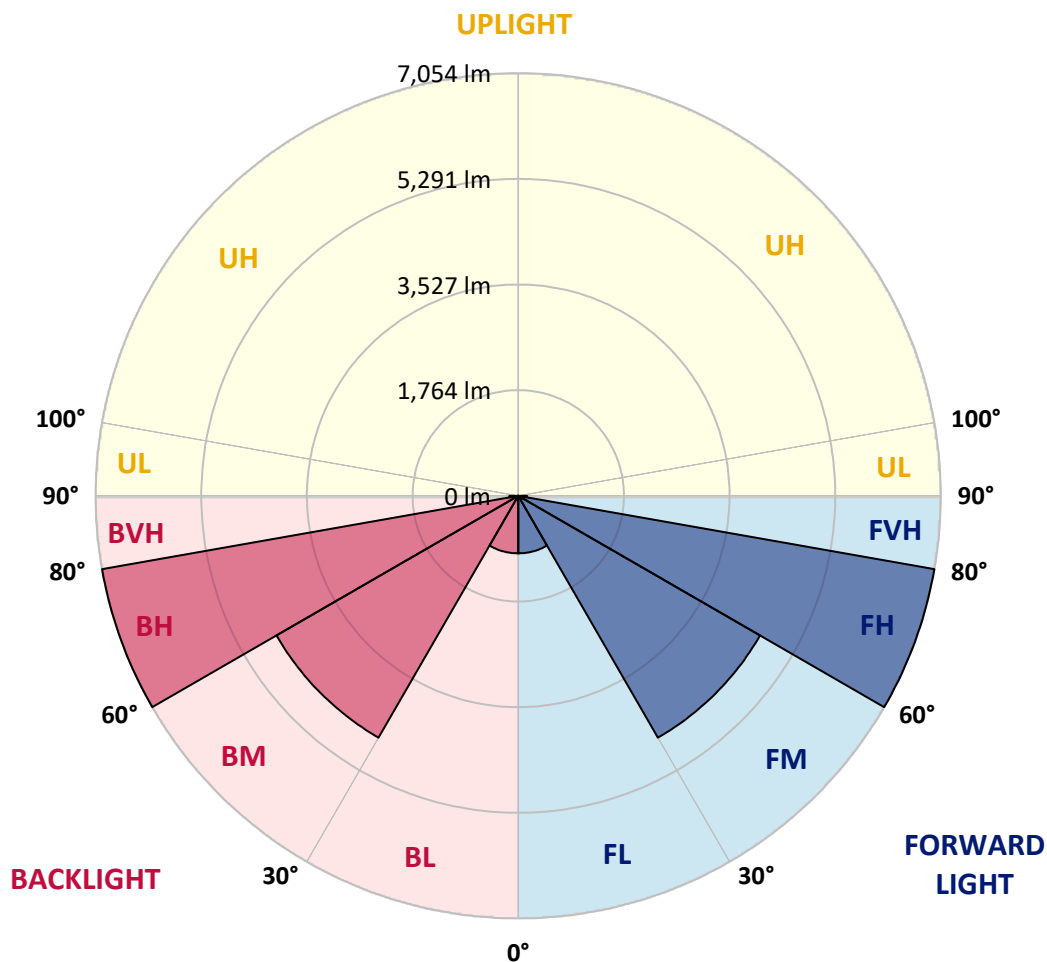
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.9	3.7			
FM	(30°-60°)	4661.3	18.2			
FH	(60°-80°)	7054.4	27.5			G3/7500
FVH	(80°-90°)	146.5	0.6			G2/225
BL	(0°-30°)	959.9	3.7	B2/1000		
BM	(30°-60°)	4661.3	18.2	B3/5000		
BH	(60°-80°)	7054.4	27.5	B5		G3/7500
BVH	(80°-90°)	146.5	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°	2339.3	2339.3	2339.3	2339.3	2339.3	2339.3	2339.3	2339.3	2339.3	2339.3	2339.3
2.5°	2324.6	2331.3	2328.6	2323.3	2323.3	2319.3	2323.3	2325.9	2329.9	2332.6	2331.3
5°	2294.0	2299.3	2297.9	2294.0	2295.3	2291.3	2294.0	2297.9	2300.6	2301.9	2301.9
7.5°	2267.3	2272.6	2270.0	2263.3	2263.3	2259.3	2260.6	2264.6	2268.6	2270.0	2270.0
10°	2260.6	2266.0	2258.0	2247.3	2243.3	2238.0	2239.3	2243.3	2251.3	2255.3	2255.3
12.5°	2263.3	2267.3	2259.3	2243.3	2239.3	2234.0	2234.0	2238.0	2248.6	2254.0	2255.3
15°	2271.3	2275.3	2263.3	2246.0	2242.0	2238.0	2236.7	2242.0	2254.0	2263.3	2264.6
17.5°	2286.0	2290.0	2271.3	2247.3	2242.0	2243.3	2242.0	2246.0	2264.6	2282.0	2282.0
20°	2299.3	2301.9	2276.6	2247.3	2242.0	2243.3	2242.0	2250.0	2274.0	2297.9	2299.3
22.5°	2303.3	2305.9	2282.0	2256.6	2252.6	2254.0	2252.6	2260.6	2283.3	2307.3	2307.3
25°	2304.6	2308.6	2290.0	2270.0	2276.6	2279.3	2276.6	2278.0	2295.3	2316.6	2315.3
27.5°	2324.6	2329.9	2312.6	2295.3	2299.3	2297.9	2301.9	2305.9	2319.3	2340.6	2335.3
30°	2365.9	2369.9	2355.2	2337.9	2335.3	2325.9	2337.9	2351.2	2365.9	2384.7	2380.6
32.5°	2434.0	2442.0	2423.3	2404.6	2392.7	2387.3	2396.7	2419.3	2439.3	2459.3	2451.3
35°	2547.2	2552.6	2535.2	2500.6	2479.3	2479.3	2487.3	2516.6	2548.6	2573.9	2564.5
37.5°	2707.2	2713.9	2683.1	2641.8	2609.9	2609.9	2620.5	2651.2	2699.1	2735.2	2721.9
40°	2901.8	2911.1	2872.5	2829.8	2799.2	2793.8	2807.2	2841.8	2887.1	2932.4	2917.8
42.5°	3136.4	3147.1	3096.4	3059.1	3035.1	3035.1	3041.8	3073.8	3115.1	3171.0	3167.0
45°	3436.3	3455.0	3385.7	3348.4	3325.6	3330.9	3335.0	3363.0	3400.3	3464.3	3461.6
47.5°	3793.5	3812.2	3738.9	3700.2	3696.3	3721.6	3705.6	3725.6	3745.6	3818.8	3797.5
50°	4198.7	4230.7	4180.1	4177.4	4185.4	4232.0	4194.7	4205.4	4182.7	4229.4	4201.4
52.5°	4694.6	4741.2	4731.9	4747.9	4837.2	4933.2	4847.8	4810.5	4725.2	4739.9	4690.6
55°	5295.8	5366.4	5379.7	5475.7	5678.3	5874.2	5693.0	5542.3	5361.1	5327.7	5275.8
57.5°	5979.5	6035.5	6099.5	6295.4	6674.0	7021.9	6674.0	6340.8	6055.5	5987.5	5939.6
60°	6715.3	6784.6	6846.0	7135.1	7697.6	8186.9	7687.0	7157.9	6780.6	6688.6	6608.7
62.5°	7505.8	7595.0	7637.7	7958.9	8614.7	9198.6	8624.0	7982.9	7564.4	7465.8	7385.7
65°	8264.2	8337.5	8385.4	8728.0	9354.5	9939.6	9397.2	8765.4	8334.8	8205.5	8141.6
67.5°	8617.4	8657.4	8774.7	9162.6	9823.7	10491.5	9935.6	9203.9	8722.6	8496.1	8498.8
70°	8100.3	8018.9	8301.5	8922.6	9879.7	10830.0	10007.7	8904.0	8314.8	7946.9	8034.9
72.5°	6259.5	6119.5	6610.0	7672.3	9239.9	10614.1	9303.8	7732.3	6915.3	6168.8	6354.1
75°	3405.7	3247.0	3924.1	5267.8	7368.4	9199.9	7537.7	5418.4	4369.4	3380.3	3600.2
77.5°	961.0	901.1	1447.6	2548.6	4432.0	6459.3	4602.6	2604.5	1716.8	1018.3	1131.7
80°	294.6	285.3	386.5	767.7	1882.1	3093.8	1808.8	777.1	491.9	310.6	327.9
82.5°	174.7	160.0	192.0	279.9	479.9	971.7	466.5	291.9	234.6	157.2	170.7
85°	99.9	93.3	113.3	135.9	161.3	206.6	134.6	138.6	125.3	83.9	87.9
87.5°	41.3	37.3	44.0	42.6	37.3	48.0	36.0	42.6	50.6	33.3	30.6
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)