

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: P883462

Luminaire Tested: **NAV-SB3D-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883462
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-SB3D-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25085 lumens
Efficiency: N/A
Efficacy: 115.0 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

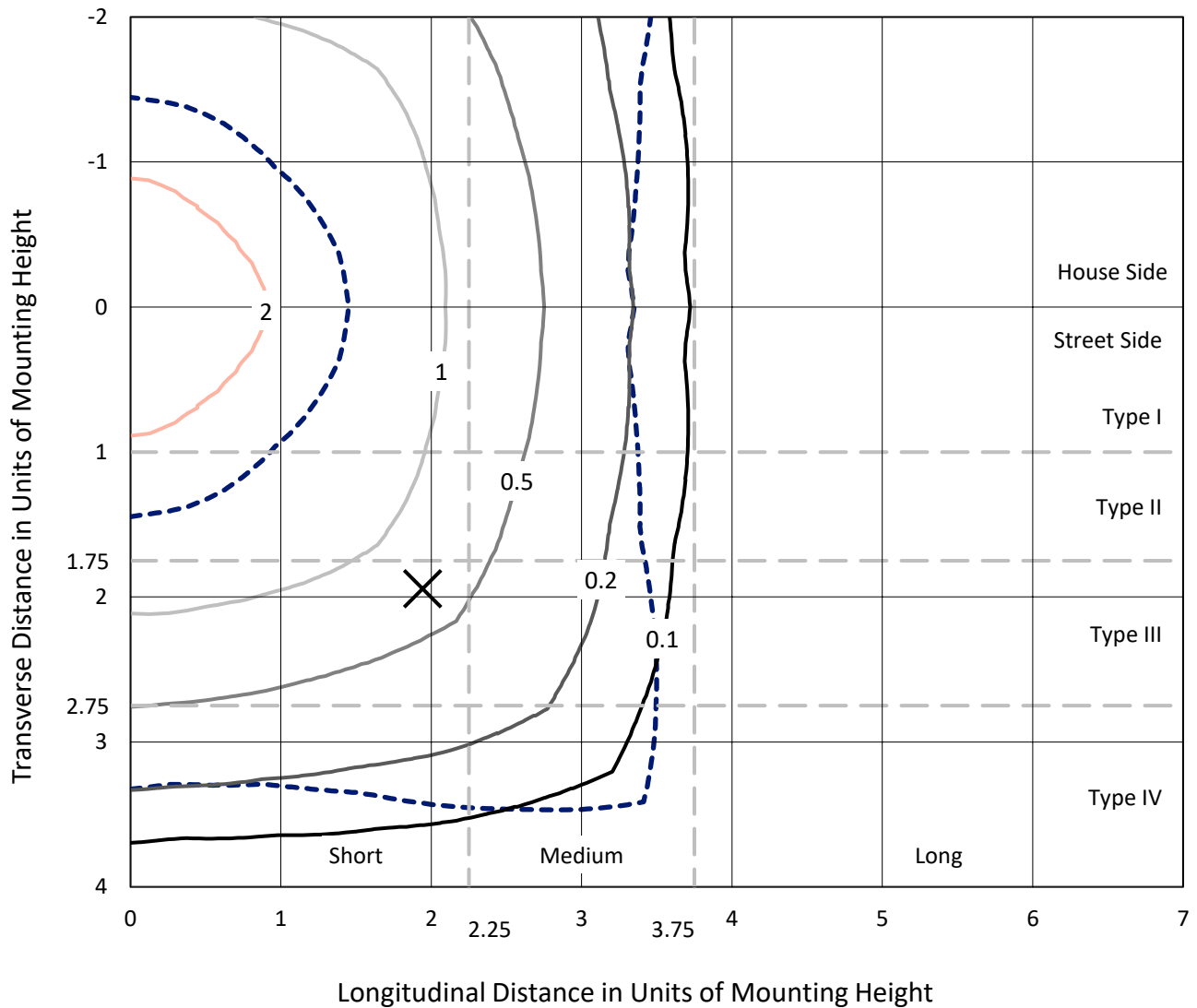
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883462
 CATALOG NUMBER: NAV-SB3D-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

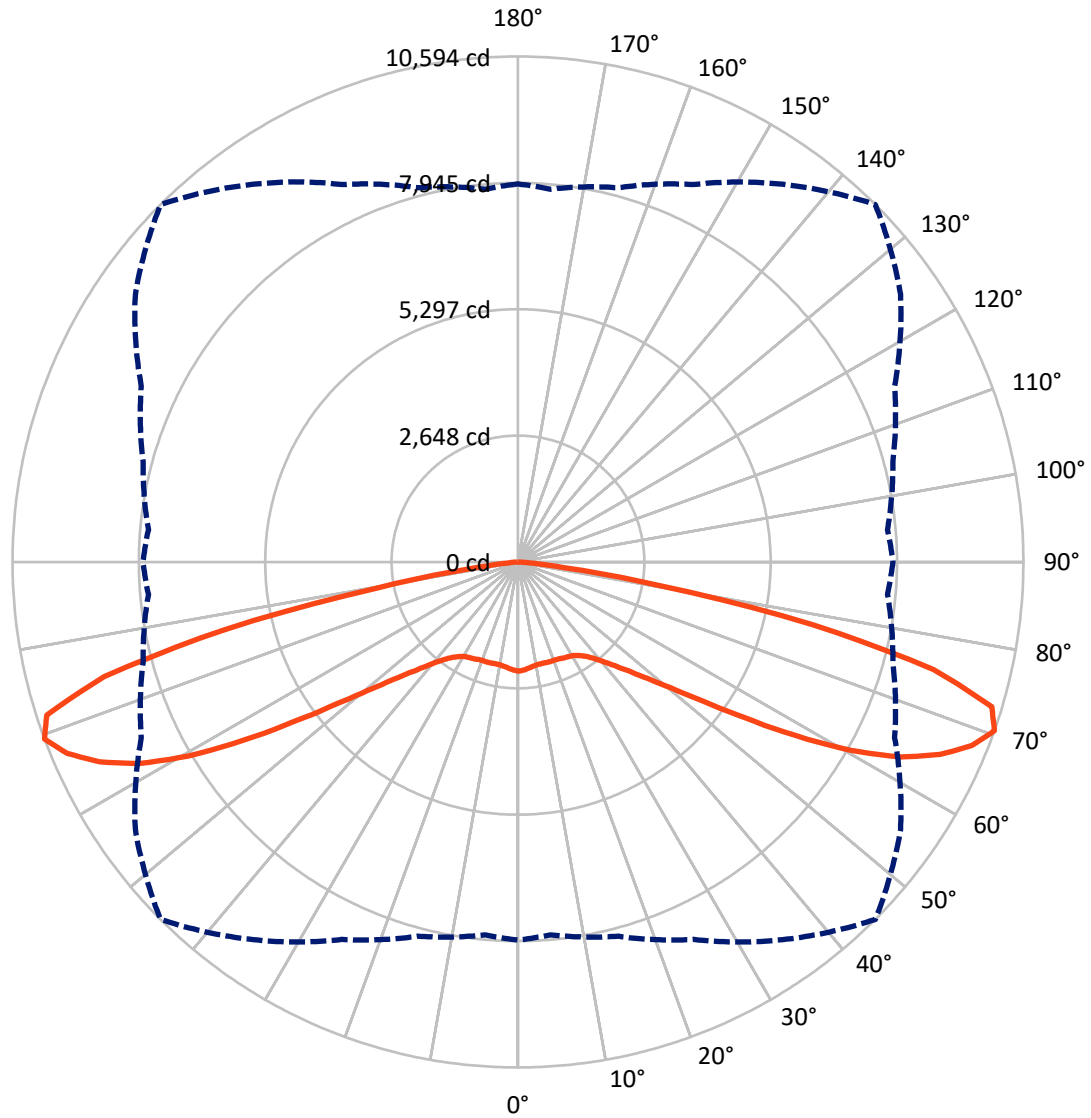
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

REPORT NUMBER: P883462
CATALOG NUMBER: NAV-SB3D-827-U-5WQ

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	12542.5	0.0	12542.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12542.5	0.0	12542.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25085.0	0.0	25085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	0.8
10°-20°	625.0	2.5
20°-30°	1040.1	4.1
30°-40°	1573.0	6.3
40°-50°	2613.9	10.4
50°-60°	4932.3	19.7
60°-70°	8328.4	33.2
70°-80°	5472.7	21.8
80°-90°	286.7	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°	25085.0	100.0
0°-180°	25085.0	100.0



REPORT NUMBER: P883462

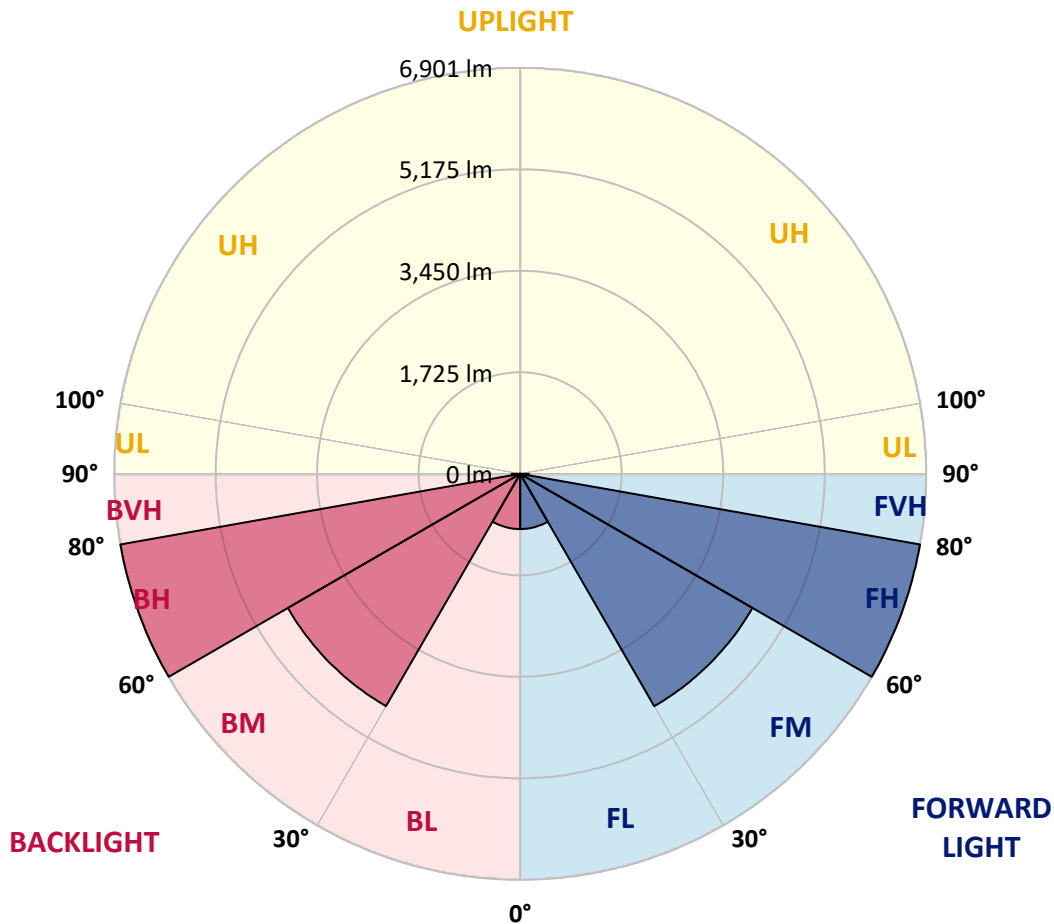
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.0	3.7			
FM (30°-60°)	4559.6	18.2			
FH (60°-80°)	6900.6	27.5			G3/7500
FVH (80°-90°)	143.4	0.6			G2/225
BL (0°-30°)	939.0	3.7	B2/1000		
BM (30°-60°)	4559.6	18.2	B3/5000		
BH (60°-80°)	6900.6	27.5	B5		G3/7500
BVH (80°-90°)	143.4	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°	2288.3	2288.3	2288.3	2288.3	2288.3	2288.3	2288.3	2288.3	2288.3	2288.3	2288.3
2.5°	2273.9	2280.4	2277.8	2272.6	2272.6	2268.7	2272.6	2275.2	2279.1	2281.7	2280.4
5°	2243.9	2249.1	2247.8	2243.9	2245.2	2241.3	2243.9	2247.8	2250.4	2251.7	2251.7
7.5°	2217.8	2223.1	2220.5	2213.9	2213.9	2210.0	2211.3	2215.2	2219.2	2220.5	2220.5
10°	2211.3	2216.5	2208.7	2198.3	2194.4	2189.2	2190.5	2194.4	2202.2	2206.1	2206.1
12.5°	2213.9	2217.8	2210.0	2194.4	2190.5	2185.3	2185.3	2189.2	2199.6	2204.8	2206.1
15°	2221.8	2225.7	2213.9	2197.0	2193.1	2189.2	2187.9	2193.1	2204.8	2213.9	2215.2
17.5°	2236.1	2240.0	2221.8	2198.3	2193.1	2194.4	2193.1	2197.0	2215.2	2232.2	2232.2
20°	2249.1	2251.7	2227.0	2198.3	2193.1	2194.4	2193.1	2200.9	2224.4	2247.8	2249.1
22.5°	2253.1	2255.7	2232.2	2207.4	2203.5	2204.8	2203.5	2211.3	2233.5	2257.0	2257.0
25°	2254.4	2258.3	2240.0	2220.5	2227.0	2229.6	2227.0	2228.3	2245.2	2266.1	2264.8
27.5°	2273.9	2279.1	2262.2	2245.2	2249.1	2247.8	2251.7	2255.7	2268.7	2289.6	2284.3
30°	2314.3	2318.2	2303.9	2287.0	2284.3	2275.2	2287.0	2300.0	2314.3	2332.6	2328.7
32.5°	2380.8	2388.7	2370.4	2352.1	2340.4	2335.2	2344.3	2366.5	2386.0	2405.6	2397.8
35°	2491.7	2496.9	2479.9	2446.0	2425.2	2425.2	2433.0	2461.7	2493.0	2517.7	2508.6
37.5°	2648.1	2654.6	2624.7	2584.2	2552.9	2552.9	2563.4	2593.4	2640.3	2675.5	2662.5
40°	2838.5	2847.6	2809.8	2768.1	2738.1	2732.9	2745.9	2779.8	2824.1	2868.5	2854.1
42.5°	3068.0	3078.4	3028.8	2992.3	2968.9	2968.9	2975.4	3006.7	3047.1	3101.9	3097.9
45°	3361.3	3379.6	3311.8	3275.3	3253.1	3258.3	3262.2	3289.6	3326.1	3388.7	3386.1
47.5°	3710.8	3729.0	3657.3	3619.5	3615.6	3640.3	3624.7	3644.3	3663.8	3735.5	3714.7
50°	4107.1	4138.4	4088.9	4086.3	4094.1	4139.7	4103.2	4113.6	4091.5	4137.1	4109.7
52.5°	4592.2	4637.8	4628.7	4644.3	4731.7	4825.5	4742.1	4705.6	4622.1	4636.5	4588.2
55°	5180.2	5249.3	5262.3	5356.2	5554.4	5746.1	5568.7	5421.4	5244.1	5211.5	5160.6
57.5°	5849.1	5903.8	5966.4	6158.1	6528.4	6868.7	6528.4	6202.4	5923.4	5856.9	5810.0
60°	6568.8	6636.6	6696.6	6979.5	7529.7	8008.2	7519.3	7001.7	6632.7	6542.7	6464.5
62.5°	7342.0	7429.3	7471.1	7785.3	8426.8	8997.9	8435.9	7808.8	7399.3	7302.9	7224.6
65°	8083.9	8155.6	8202.5	8537.6	9150.4	9722.8	9192.1	8574.1	8153.0	8026.5	7963.9
67.5°	8429.4	8468.5	8583.2	8962.7	9609.4	10262.6	9718.9	9003.1	8532.4	8310.7	8313.3
70°	7923.5	7844.0	8120.4	8728.0	9664.1	10593.8	9789.3	8709.7	8133.4	7773.6	7859.6
72.5°	6122.9	5986.0	6465.8	7505.0	9038.3	10382.6	9100.9	7563.6	6764.4	6034.2	6215.5
75°	3331.3	3176.2	3838.5	5152.8	7207.7	8999.2	7373.3	5300.2	4274.0	3306.6	3521.7
77.5°	940.1	881.4	1416.0	2493.0	4335.3	6318.5	4502.2	2547.7	1679.4	996.1	1107.0
80°	288.2	279.0	378.1	751.0	1841.0	3026.2	1769.3	760.1	481.1	303.8	320.7
82.5°	170.8	156.5	187.8	273.8	469.4	950.5	456.3	285.5	229.5	153.9	166.9
85°	97.8	91.3	110.8	133.0	157.8	202.1	131.7	135.6	122.6	82.1	86.1
87.5°	40.4	36.5	43.0	41.7	36.5	46.9	35.2	41.7	49.5	32.6	30.0
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)