

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: P970476

Luminaire Tested: **NAV-SB6B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31340.4 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 220.4
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

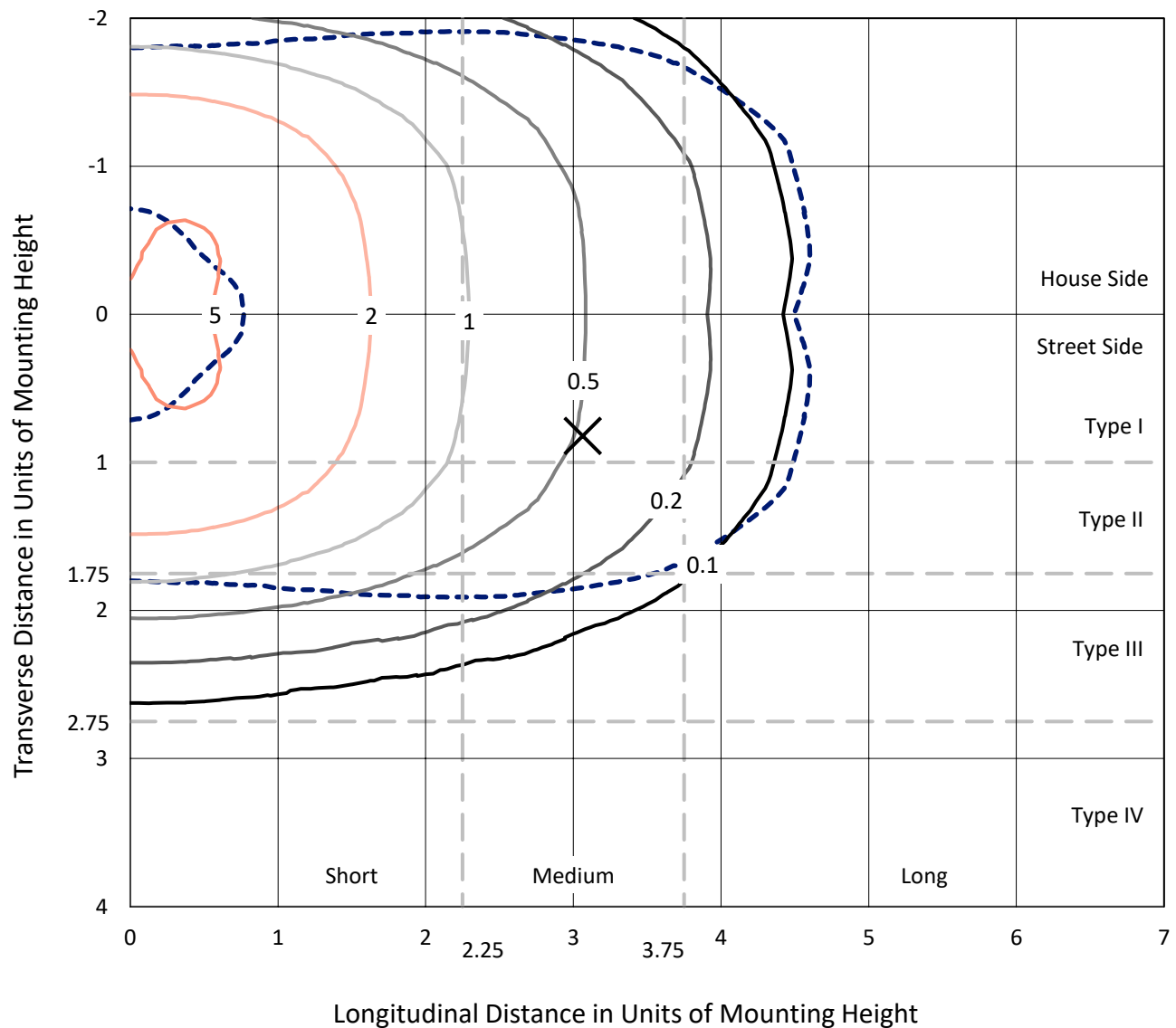


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Iso-Footcandle Lines of Horizontal Illumination

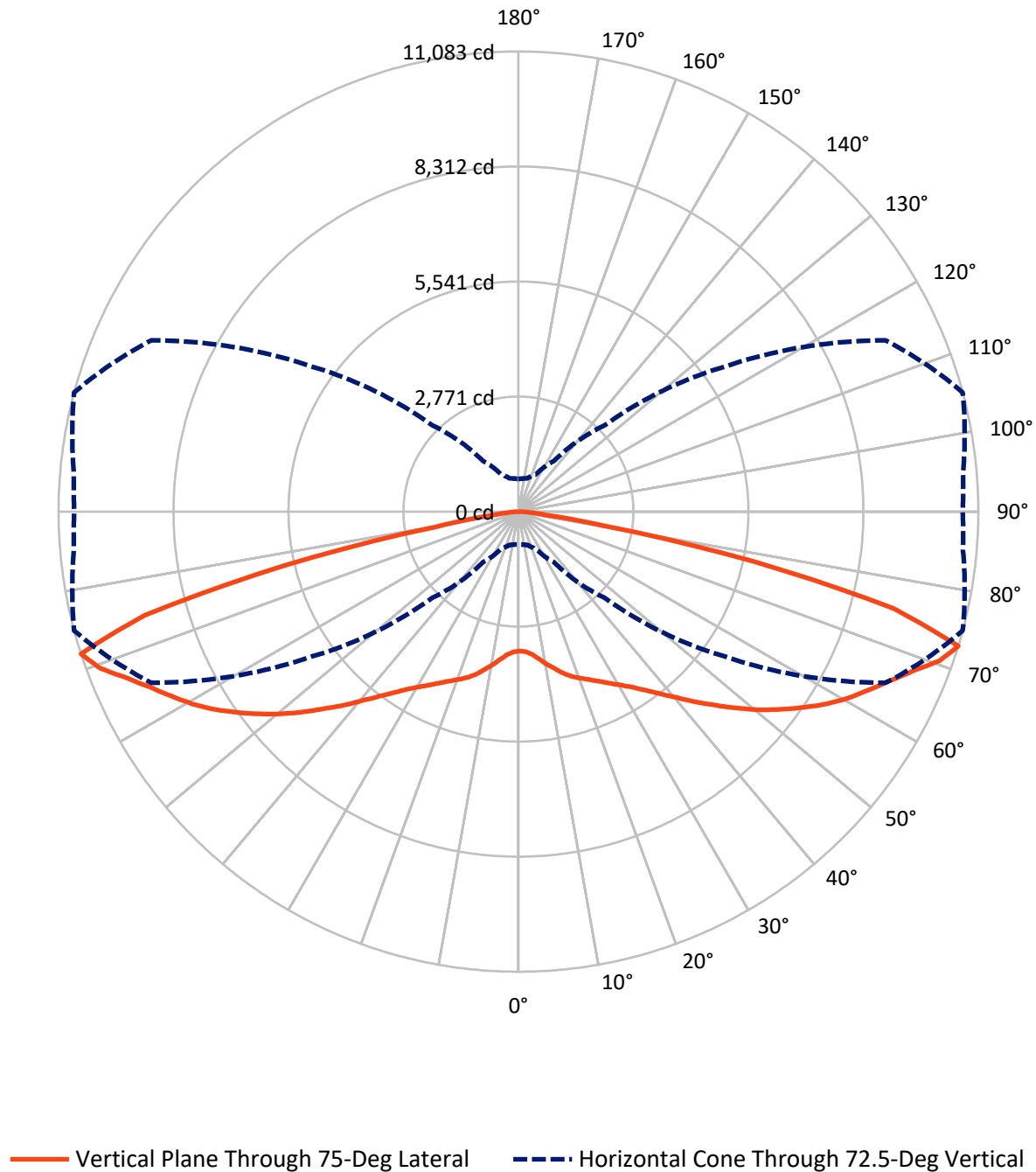
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15670.2	0.0	15670.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15670.2	0.0	15670.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	31340.4	0.0	31340.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	1.0
10°-20°	1084.6	3.5
20°-30°	2095.8	6.7
30°-40°	3539.0	11.3
40°-50°	5612.4	17.9
50°-60°	7514.3	24.0
60°-70°	7151.2	22.8
70°-80°	3731.6	11.9
80°-90°	282.5	0.9
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°	31340.4	100.0
0°-180°	31340.4	100.0

Coefficient of Utilization



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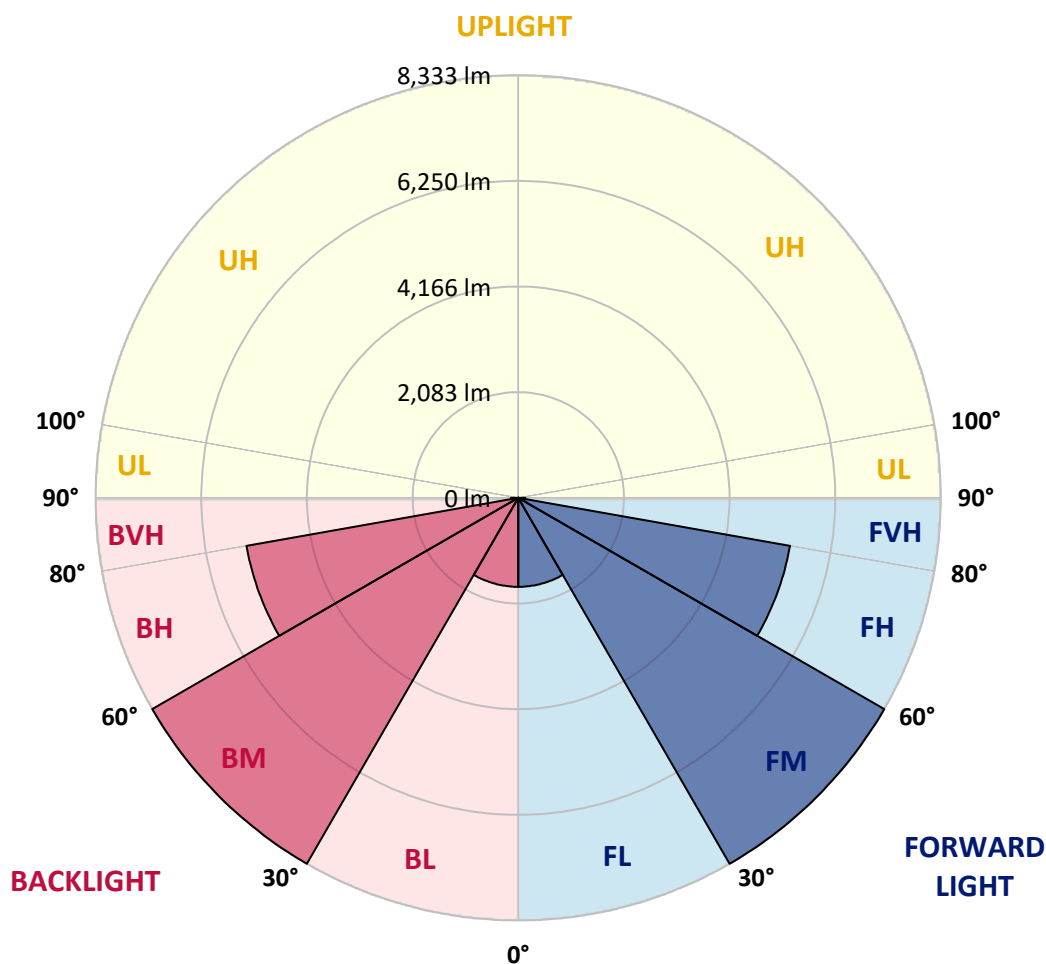
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.7	5.6			
FM	(30°-60°)	8332.8	26.6			
FH	(60°-80°)	5441.4	17.4			G3/7500
FVH	(80°-90°)	141.2	0.5			G2/225
BL	(0°-30°)	1754.7	5.6	B3/2500		
BM	(30°-60°)	8332.8	26.6	B4/8500		
BH	(60°-80°)	5441.4	17.4	B5		G5
BVH	(80°-90°)	141.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3357.1	3357.1	3357.1	3357.1	3357.1	3357.1	3357.1	3357.1	3357.1	3357.1	3357.1
2.5°	3357.1	3353.9	3357.1	3360.4	3358.7	3358.7	3366.7	3371.5	3381.2	3379.5	3377.9
5°	3334.7	3333.1	3345.9	3360.4	3371.5	3390.7	3414.7	3432.3	3454.8	3459.5	3459.5
7.5°	3323.6	3318.7	3341.1	3366.7	3401.9	3449.9	3496.4	3544.3	3582.8	3595.5	3598.8
10°	3331.6	3333.1	3363.5	3411.5	3467.6	3534.7	3600.3	3681.9	3736.3	3749.1	3762.0
12.5°	3368.4	3365.1	3416.3	3493.1	3570.0	3654.7	3731.5	3821.2	3880.3	3910.8	3923.6
15°	3435.5	3429.1	3501.1	3614.8	3726.8	3825.9	3888.3	3973.2	4042.0	4080.4	4094.8
17.5°	3515.5	3518.7	3613.1	3760.3	3907.6	4019.5	4078.8	4122.0	4174.8	4208.4	4224.4
20°	3656.4	3662.7	3768.3	3942.8	4110.8	4238.8	4286.8	4270.8	4285.2	4310.8	4330.0
22.5°	3845.2	3848.4	3966.7	4155.6	4331.6	4472.4	4504.5	4438.9	4398.8	4416.4	4429.2
25°	4064.4	4085.1	4203.6	4397.2	4578.1	4712.4	4726.9	4627.7	4528.4	4533.3	4541.3
27.5°	4331.6	4350.8	4470.8	4662.8	4846.8	4963.7	4962.0	4829.3	4683.6	4646.8	4658.0
30°	4621.2	4642.0	4765.2	4963.7	5134.8	5237.3	5214.9	5056.5	4848.5	4779.7	4787.7
32.5°	4965.3	4978.1	5102.9	5301.3	5459.8	5541.4	5494.9	5299.7	5040.4	4962.0	4981.3
35°	5381.4	5400.5	5493.3	5680.5	5819.7	5887.0	5808.6	5578.2	5287.0	5198.9	5211.7
37.5°	5856.5	5843.7	5949.4	6115.8	6231.0	6272.6	6165.4	5891.8	5568.5	5464.5	5483.7
40°	6352.6	6346.2	6461.4	6621.4	6683.8	6709.4	6551.0	6251.8	5893.3	5781.3	5818.1
42.5°	6802.2	6797.5	6952.7	7130.3	7205.4	7176.6	6976.7	6634.2	6269.4	6141.4	6173.4
45°	7162.3	7155.8	7346.3	7596.0	7743.2	7695.1	7426.3	7056.7	6650.2	6517.5	6547.8
47.5°	7439.1	7442.3	7647.1	7955.9	8213.5	8231.2	7885.5	7487.1	7069.4	6919.1	6963.8
50°	7639.1	7648.8	7867.9	8210.4	8562.4	8717.6	8354.4	7928.8	7503.1	7333.5	7384.7
52.5°	7688.7	7706.4	7970.4	8372.0	8786.4	9082.4	8831.2	8352.8	7914.3	7752.7	7794.3
55°	7424.7	7459.9	7794.3	8359.2	8924.1	9322.5	9250.5	8783.2	8328.7	8162.4	8208.8
57.5°	6818.2	6867.8	7258.3	7995.9	8893.6	9487.3	9575.3	9196.1	8743.2	8583.2	8620.0
60°	5968.6	6027.8	6402.3	7207.1	8464.8	9548.1	9804.1	9597.7	9124.0	8968.9	9002.5
62.5°	4686.8	4763.7	5211.7	6155.7	7559.1	9264.9	9999.4	9960.9	9466.5	9272.9	9295.3
65°	3006.7	3088.3	3560.3	4675.6	6351.0	8397.6	10060.2	10314.6	9828.1	9557.7	9591.3
67.5°	1813.0	1849.8	2083.4	2833.8	4642.0	7090.2	9544.9	10706.6	10250.6	9914.5	9940.1
70°	1160.1	1180.9	1320.1	1664.2	2624.2	5173.3	8268.0	10780.2	10762.6	10281.0	10277.8
72.5°	787.3	793.7	830.5	985.7	1484.9	2939.5	6098.1	9759.3	11082.6	10753.0	10701.8
75°	576.0	611.2	670.5	697.6	843.3	1468.9	3494.7	6856.6	9340.1	9484.1	9135.3
77.5°	428.9	430.4	512.1	544.1	601.7	782.5	1478.6	3827.6	5798.9	6088.6	5431.0
80°	363.3	344.0	342.5	438.4	452.8	488.0	660.8	1321.7	2077.0	1259.3	952.1
82.5°	302.5	281.7	254.4	342.5	308.8	299.2	286.4	537.6	660.8	324.8	276.9
85°	211.3	201.6	192.0	224.1	176.0	150.4	137.7	251.2	278.4	137.7	121.6
87.5°	91.2	94.4	96.0	99.2	73.6	52.8	52.8	70.4	70.4	54.4	40.0
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)