

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: P969949

Luminaire Tested: **NAV-SB6A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969949
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-SB6A-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24967 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9
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



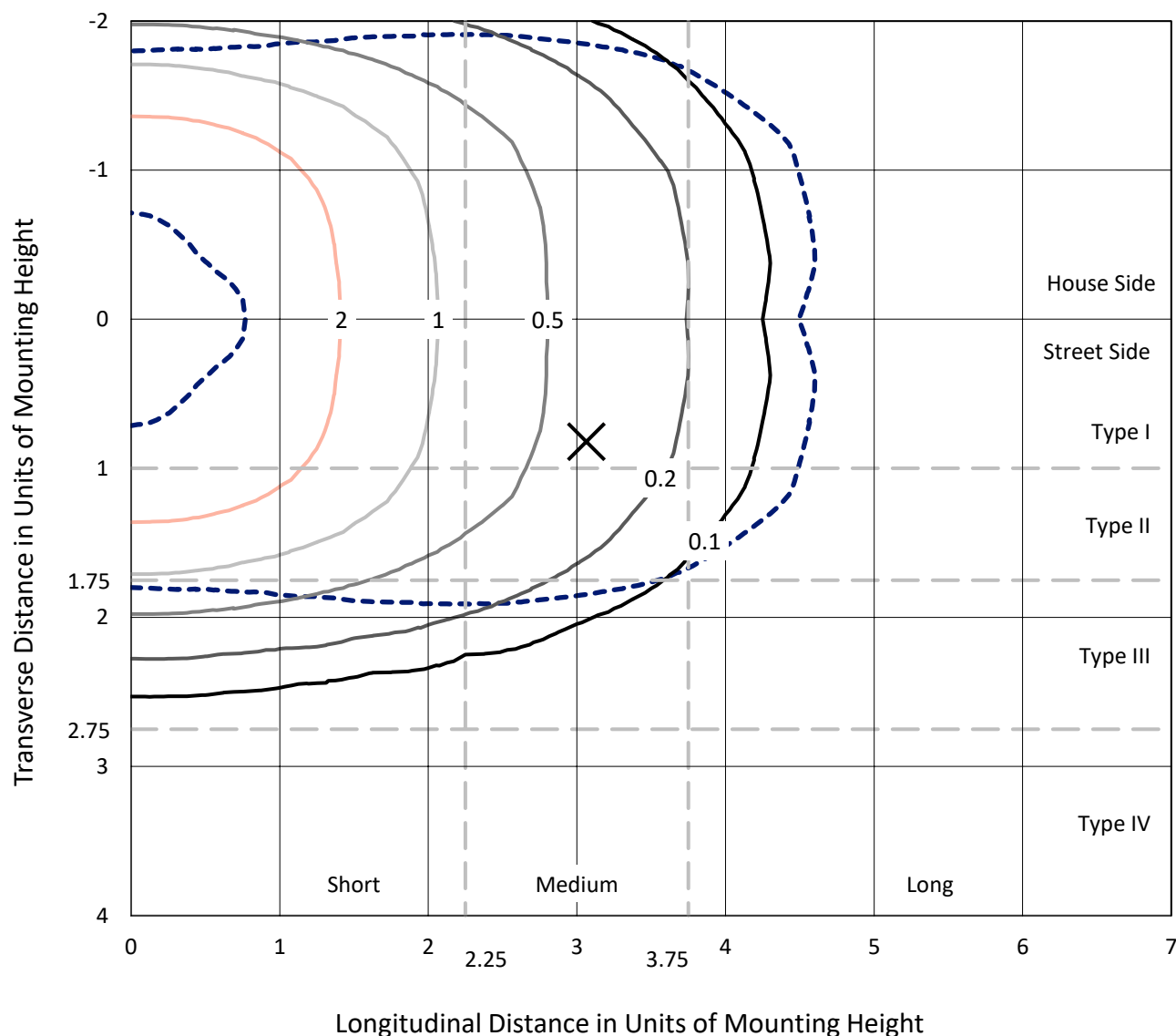
REPORT NUMBER: P969949

CATALOG NUMBER: NAV-SB6A-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

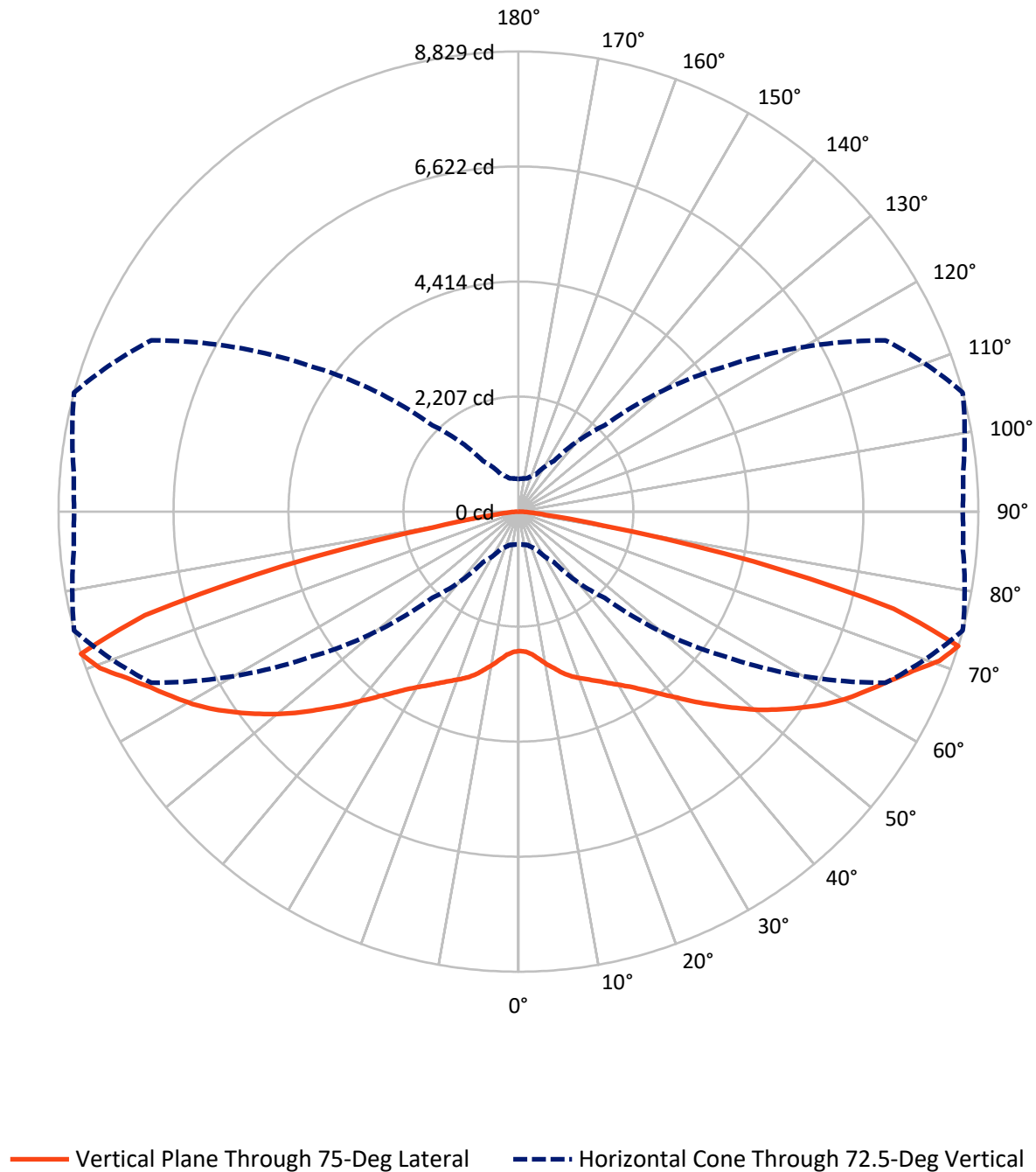


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type III - Medium - N/A

REPORT NUMBER: P969949
CATALOG NUMBER: NAV-SB6A-827-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P969949

CATALOG NUMBER: NAV-SB6A-827-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12483.5	0.0	12483.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12483.5	0.0	12483.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24967.0	0.0	24967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	1.0
10°-20°	864.1	3.5
20°-30°	1669.6	6.7
30°-40°	2819.3	11.3
40°-50°	4471.0	17.9
50°-60°	5986.2	24.0
60°-70°	5696.9	22.8
70°-80°	2972.8	11.9
80°-90°	225.0	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°	24967.0	100.0
0°-180°	24967.0	100.0

Coefficient of Utilization



REPORT NUMBER: P969949

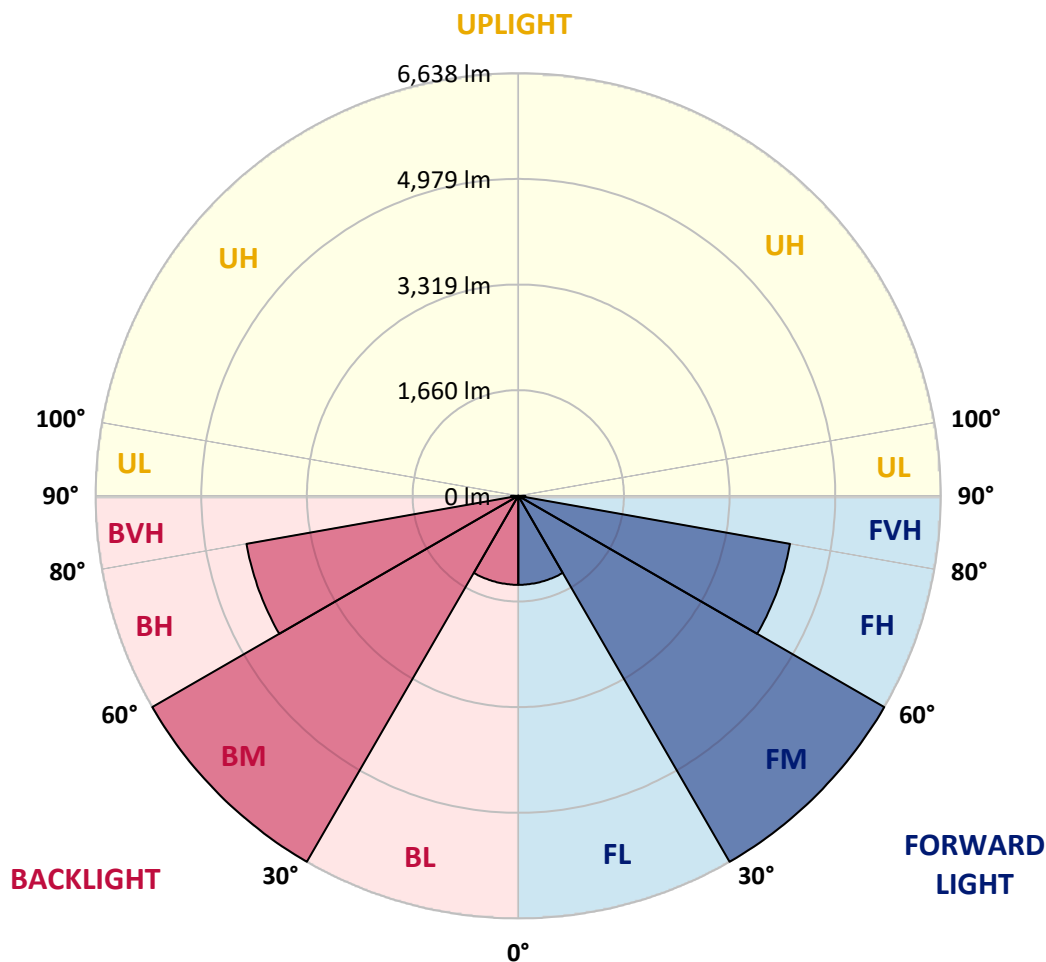
CATALOG NUMBER: NAV-SB6A-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1397.8	5.6			
FM	(30°-60°)	6638.3	26.6			
FH	(60°-80°)	4334.9	17.4			G2/5000
FVH	(80°-90°)	112.5	0.5			G2/225
BL	(0°-30°)	1397.8	5.6	B3/2500		
BM	(30°-60°)	6638.3	26.6	B4/8500		
BH	(60°-80°)	4334.9	17.4	B4/5000		G4/5000
BVH	(80°-90°)	112.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P969949

CATALOG NUMBER: NAV-SB6A-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2674.4	2674.4	2674.4	2674.4	2674.4	2674.4	2674.4	2674.4	2674.4	2674.4	2674.4
2.5°	2674.4	2671.9	2674.4	2677.0	2675.7	2675.7	2682.0	2685.9	2693.5	2692.3	2690.9
5°	2656.6	2655.3	2665.5	2677.0	2685.9	2701.2	2720.2	2734.3	2752.1	2756.0	2756.0
7.5°	2647.7	2643.8	2661.6	2682.0	2710.1	2748.3	2785.3	2823.6	2854.1	2864.4	2866.9
10°	2654.0	2655.3	2679.6	2717.8	2762.4	2815.9	2868.2	2933.1	2976.5	2986.7	2996.9
12.5°	2683.3	2680.8	2721.6	2782.8	2844.0	2911.5	2972.7	3044.0	3091.3	3115.5	3125.6
15°	2736.9	2731.7	2789.1	2879.6	2968.9	3047.9	3097.7	3165.2	3220.0	3250.6	3262.1
17.5°	2800.6	2803.2	2878.4	2995.7	3112.9	3202.1	3249.4	3283.7	3325.8	3352.6	3365.3
20°	2912.7	2917.9	3002.0	3141.0	3274.8	3376.8	3415.0	3402.3	3413.8	3434.2	3449.4
22.5°	3063.2	3065.8	3160.1	3310.5	3450.8	3562.9	3588.4	3536.1	3504.3	3518.3	3528.5
25°	3237.9	3254.4	3348.8	3503.0	3647.1	3754.1	3765.5	3686.5	3607.5	3611.4	3617.7
27.5°	3450.8	3466.0	3561.7	3714.6	3861.2	3954.2	3953.0	3847.1	3731.2	3701.9	3710.8
30°	3681.5	3698.0	3796.2	3954.2	4090.7	4172.3	4154.4	4028.1	3862.5	3807.7	3814.0
32.5°	3955.5	3965.7	4065.2	4223.2	4349.4	4414.5	4377.5	4222.0	4015.4	3953.0	3968.3
35°	4287.0	4302.2	4376.2	4525.4	4636.3	4689.8	4627.3	4443.8	4211.7	4141.6	4151.9
37.5°	4665.6	4655.3	4739.5	4872.0	4963.9	4997.0	4911.6	4693.6	4436.1	4353.3	4368.5
40°	5060.7	5055.6	5147.4	5274.9	5324.6	5345.0	5218.8	4980.4	4694.9	4605.6	4634.9
42.5°	5419.0	5415.1	5538.8	5680.2	5740.2	5717.2	5557.9	5285.1	4994.4	4892.4	4918.0
45°	5705.8	5700.6	5852.3	6051.2	6168.4	6130.2	5916.1	5621.6	5297.8	5192.0	5216.2
47.5°	5926.2	5928.8	6092.0	6338.0	6543.3	6557.2	6281.9	5964.5	5631.8	5511.9	5547.7
50°	6085.6	6093.2	6267.9	6540.7	6821.2	6944.8	6655.4	6316.4	5977.3	5842.1	5882.9
52.5°	6125.1	6139.1	6349.5	6669.5	6999.6	7235.5	7035.3	6654.2	6304.9	6176.1	6209.2
55°	5914.8	5942.8	6209.2	6659.2	7109.2	7426.6	7369.2	6997.1	6635.0	6502.5	6539.4
57.5°	5431.7	5471.1	5782.2	6369.9	7085.0	7557.9	7628.0	7326.0	6965.2	6837.7	6867.0
60°	4754.8	4801.9	5100.2	5741.4	6743.4	7606.4	7810.3	7645.9	7268.6	7145.0	7171.7
62.5°	3733.8	3794.9	4151.9	4903.9	6021.9	7380.7	7965.9	7935.2	7541.3	7387.2	7405.0
65°	2395.2	2460.2	2836.3	3724.7	5059.4	6689.9	8014.3	8217.0	7829.5	7614.0	7640.8
67.5°	1444.3	1473.6	1659.7	2257.6	3698.0	5648.4	7603.9	8529.3	8166.0	7898.3	7918.7
70°	924.1	940.7	1051.6	1325.7	2090.6	4121.2	6586.5	8588.0	8573.9	8190.3	8187.7
72.5°	627.2	632.3	661.6	785.3	1183.0	2341.7	4858.1	7774.6	8828.8	8566.2	8525.4
75°	458.9	487.0	534.1	555.8	671.8	1170.2	2784.0	5462.2	7440.7	7555.4	7277.5
77.5°	341.6	342.9	408.0	433.4	479.3	623.3	1177.8	3049.2	4619.7	4850.4	4326.4
80°	289.4	274.1	272.8	349.3	360.8	388.8	526.4	1053.0	1654.7	1003.3	758.5
82.5°	240.9	224.4	202.6	272.8	246.0	238.4	228.2	428.3	526.4	258.8	220.6
85°	168.3	160.6	152.9	178.5	140.2	119.8	109.7	200.2	221.8	109.7	96.9
87.5°	72.7	75.2	76.5	79.0	58.6	42.0	42.0	56.1	56.1	43.4	31.9
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)