

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: P971000

Luminaire Tested: **NAV-SB6C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971000
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-SB6C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40943.6 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 300.9
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

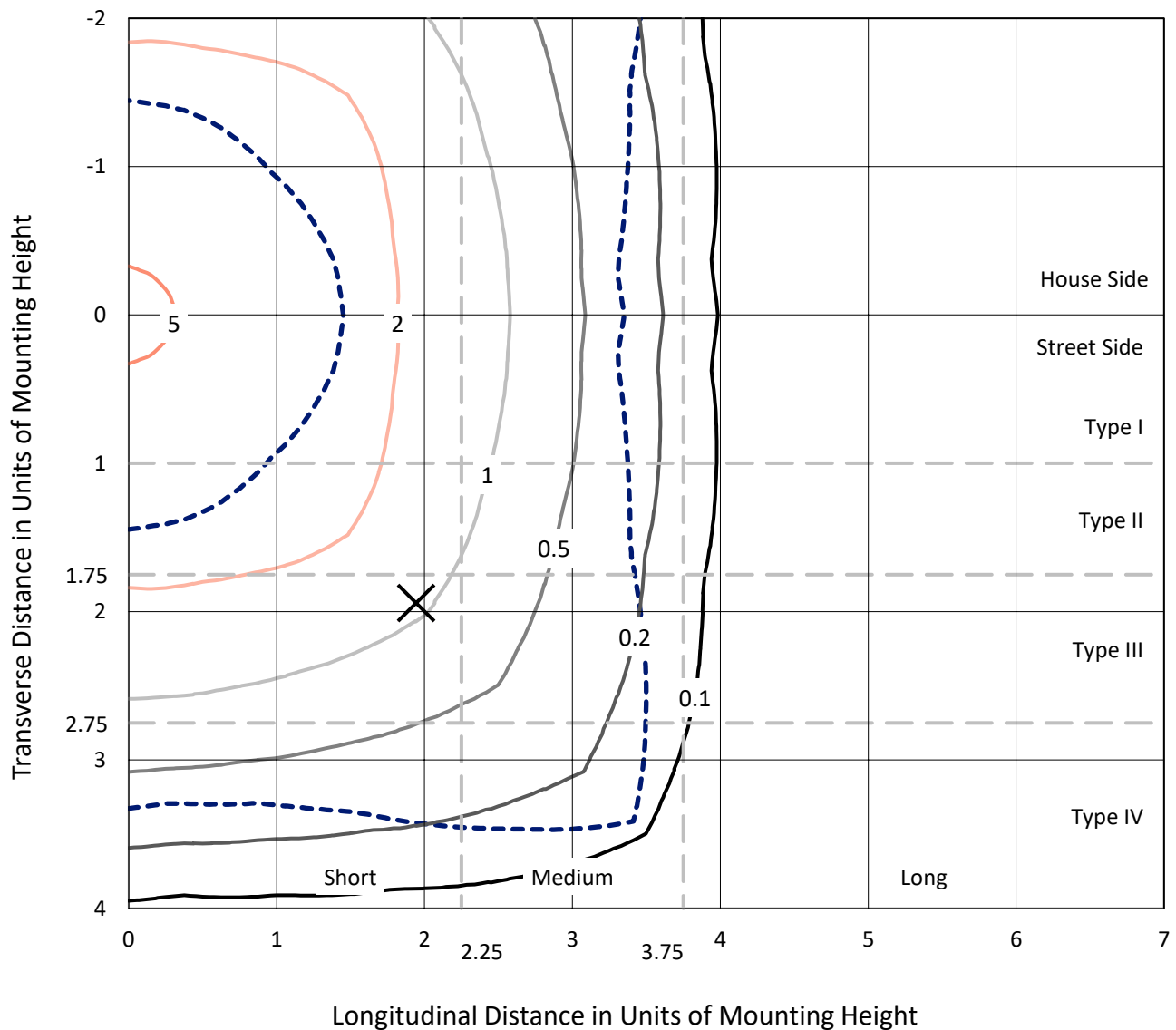


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Iso-Footcandle Lines of Horizontal Illumination

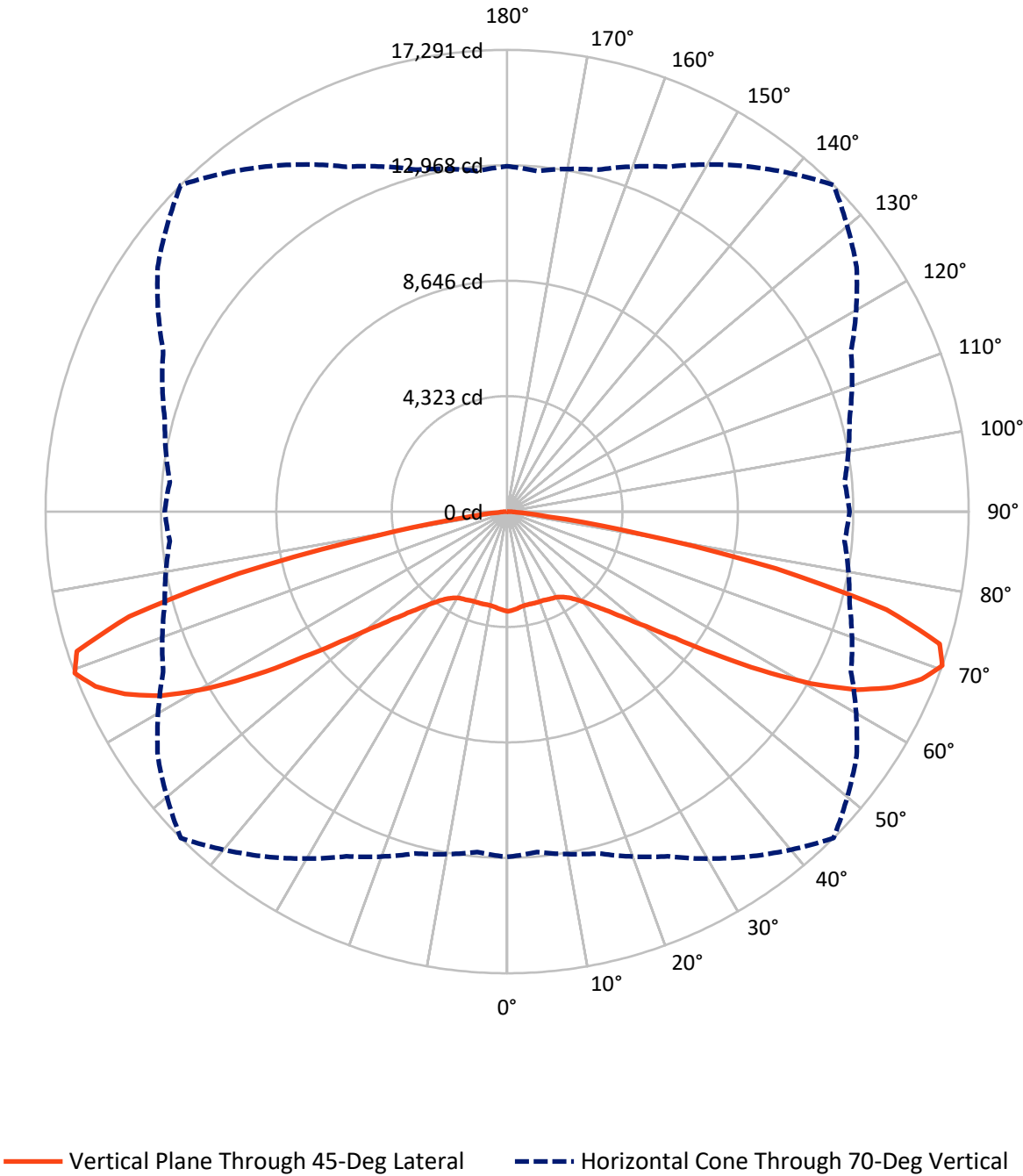
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	20471.8	0.0	20471.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20471.8	0.0	20471.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	40943.6	0.0	40943.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	0.8
10°-20°	1020.1	2.5
20°-30°	1697.7	4.1
30°-40°	2567.4	6.3
40°-50°	4266.4	10.4
50°-60°	8050.5	19.7
60°-70°	13593.6	33.2
70°-80°	8932.4	21.8
80°-90°	468.0	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°	40943.6	100.0
0°-180°	40943.6	100.0

Coefficient of Utilization



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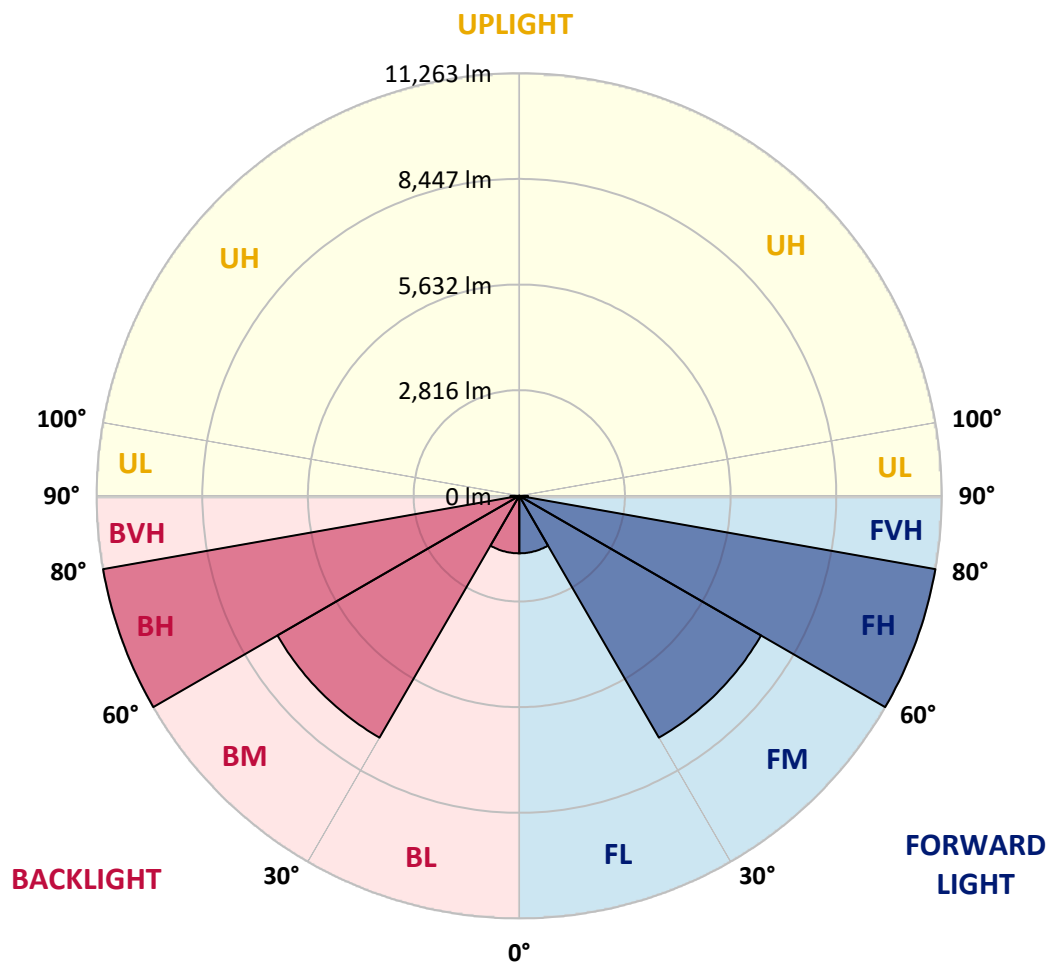
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.6	3.7			
FM	(30°-60°)	7442.2	18.2			
FH	(60°-80°)	11263.0	27.5			G4/12000
FVH	(80°-90°)	234.0	0.6			G3/500
BL	(0°-30°)	1532.6	3.7	B3/2500		
BM	(30°-60°)	7442.2	18.2	B4/8500		
BH	(60°-80°)	11263.0	27.5	B5		G4/12000
BVH	(80°-90°)	234.0	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9	3734.9
2.5°	3711.4	3722.1	3717.9	3709.4	3709.4	3702.9	3709.4	3713.6	3720.0	3724.2	3722.1
5°	3662.5	3671.0	3668.9	3662.5	3664.7	3658.2	3662.5	3668.9	3673.2	3675.3	3675.3
7.5°	3620.0	3628.5	3624.2	3613.5	3613.5	3607.2	3609.3	3615.7	3622.0	3624.2	3624.2
10°	3609.3	3617.8	3605.0	3588.0	3581.7	3573.2	3575.3	3581.7	3594.5	3600.8	3600.8
12.5°	3613.5	3620.0	3607.2	3581.7	3575.3	3566.8	3566.8	3573.2	3590.2	3598.7	3600.8
15°	3626.3	3632.7	3613.5	3586.0	3579.5	3573.2	3571.0	3579.5	3598.7	3613.5	3615.7
17.5°	3649.7	3656.2	3626.3	3588.0	3579.5	3581.7	3579.5	3586.0	3615.7	3643.4	3643.4
20°	3671.0	3675.3	3634.9	3588.0	3579.5	3581.7	3579.5	3592.3	3630.7	3668.9	3671.0
22.5°	3677.4	3681.7	3643.4	3603.0	3596.5	3598.7	3596.5	3609.3	3645.5	3683.8	3683.8
25°	3679.5	3685.9	3656.2	3624.2	3634.9	3639.2	3634.9	3637.0	3664.7	3698.7	3696.6
27.5°	3711.4	3720.0	3692.4	3664.7	3671.0	3668.9	3675.3	3681.7	3702.9	3737.0	3728.5
30°	3777.4	3783.8	3760.4	3732.7	3728.5	3713.6	3732.7	3754.1	3777.4	3807.3	3800.9
32.5°	3886.0	3898.8	3869.0	3839.1	3820.0	3811.5	3826.4	3862.6	3894.5	3926.4	3913.7
35°	4066.9	4075.4	4047.7	3992.4	3958.3	3958.3	3971.2	4017.9	4069.0	4109.4	4094.6
37.5°	4322.2	4332.9	4284.0	4218.0	4166.9	4166.9	4183.9	4232.8	4309.5	4366.9	4345.7
40°	4633.0	4647.9	4586.2	4518.0	4469.1	4460.6	4481.8	4537.2	4609.5	4681.9	4658.5
42.5°	5007.5	5024.5	4943.7	4884.1	4845.8	4845.8	4856.4	4907.5	4973.5	5062.9	5056.4
45°	5486.3	5516.1	5405.4	5345.9	5309.7	5318.2	5324.6	5369.3	5428.9	5531.0	5526.8
47.5°	6056.7	6086.4	5969.4	5907.7	5901.3	5941.7	5916.2	5948.2	5980.1	6097.1	6063.1
50°	6703.6	6754.7	6673.9	6669.6	6682.4	6756.8	6697.2	6714.3	6678.1	6752.6	6707.9
52.5°	7495.3	7569.8	7554.9	7580.4	7723.0	7876.2	7740.1	7680.4	7544.2	7567.7	7489.0
55°	8455.1	8567.9	8589.2	8742.4	9065.9	9378.8	9089.3	8848.8	8559.4	8506.2	8423.1
57.5°	9546.8	9636.2	9738.3	10051.2	10655.6	11211.0	10655.6	10123.5	9668.1	9559.6	9483.0
60°	10721.6	10832.2	10930.1	11392.0	12290.0	13071.0	12272.9	11428.1	10825.8	10679.0	10551.3
62.5°	11983.6	12126.2	12194.2	12707.1	13754.2	14686.3	13769.0	12745.5	12077.2	11919.7	11792.0
65°	13194.4	13311.5	13388.1	13935.1	14935.3	15869.6	15003.3	13994.6	13307.3	13100.8	12998.6
67.5°	13758.4	13822.2	14009.5	14628.8	15684.3	16750.6	15863.1	14694.8	13926.6	13564.7	13569.1
70°	12932.7	12802.9	13254.1	14245.8	15773.7	17291.1	15978.1	14215.9	13275.3	12688.0	12828.4
72.5°	9993.8	9770.3	10553.4	12249.6	14752.2	16946.3	14854.4	12345.3	11040.8	9849.0	10144.8
75°	5437.4	5184.1	6265.2	8410.4	11764.3	14688.5	12034.6	8650.9	6976.0	5396.9	5748.1
77.5°	1534.4	1438.6	2311.2	4069.0	7076.1	10312.9	7348.4	4158.4	2741.1	1625.9	1806.8
80°	470.3	455.4	617.2	1225.8	3004.9	4939.4	2887.8	1240.7	785.3	495.9	523.6
82.5°	278.8	255.3	306.5	446.9	766.1	1551.4	744.9	466.1	374.5	251.1	272.4
85°	159.6	148.9	180.9	217.1	257.5	329.8	214.9	221.3	200.1	134.1	140.4
87.5°	66.0	59.6	70.2	68.1	59.6	76.6	57.5	68.1	80.9	53.2	49.0
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)