

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: P968364

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26566.9 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

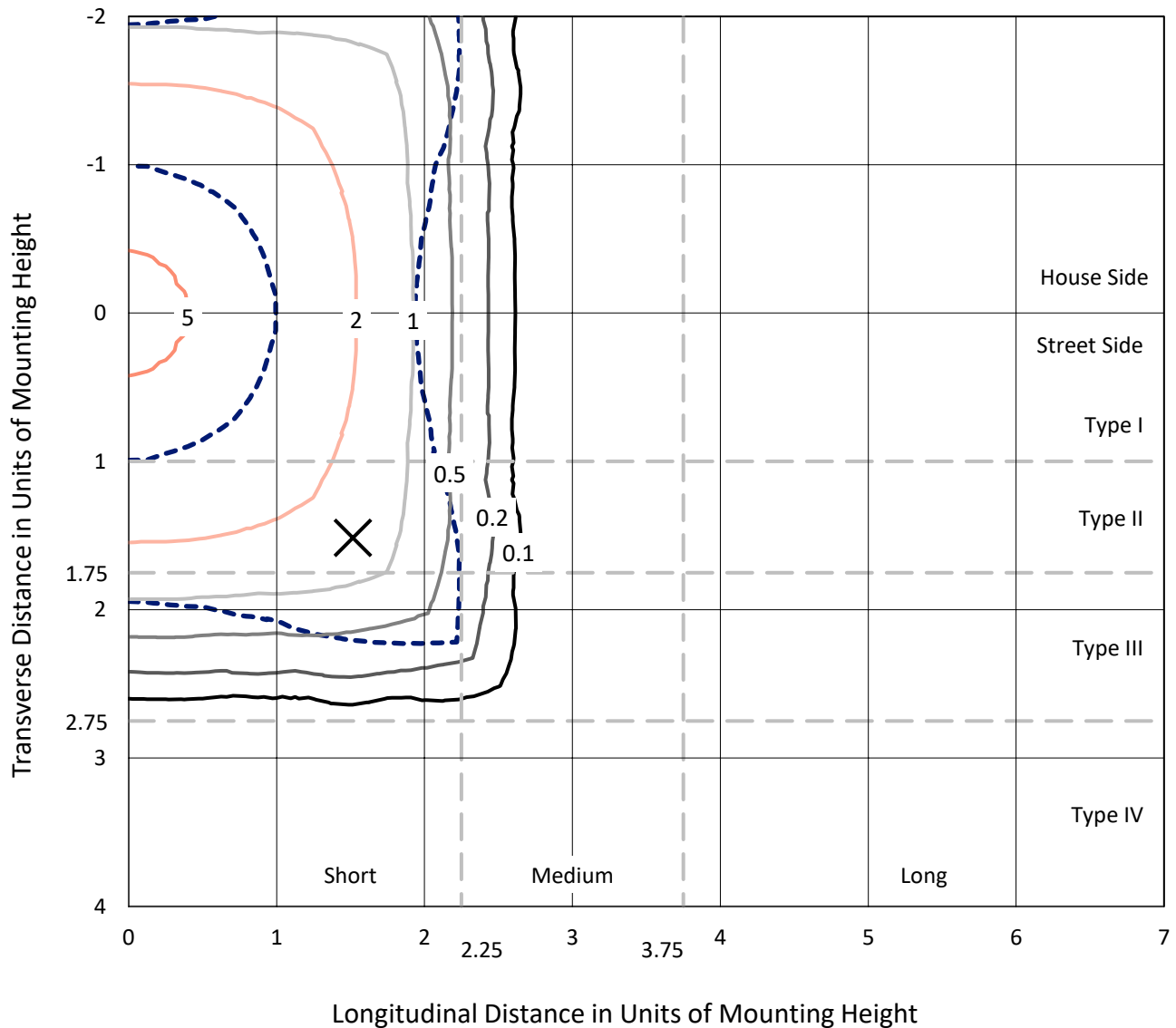
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

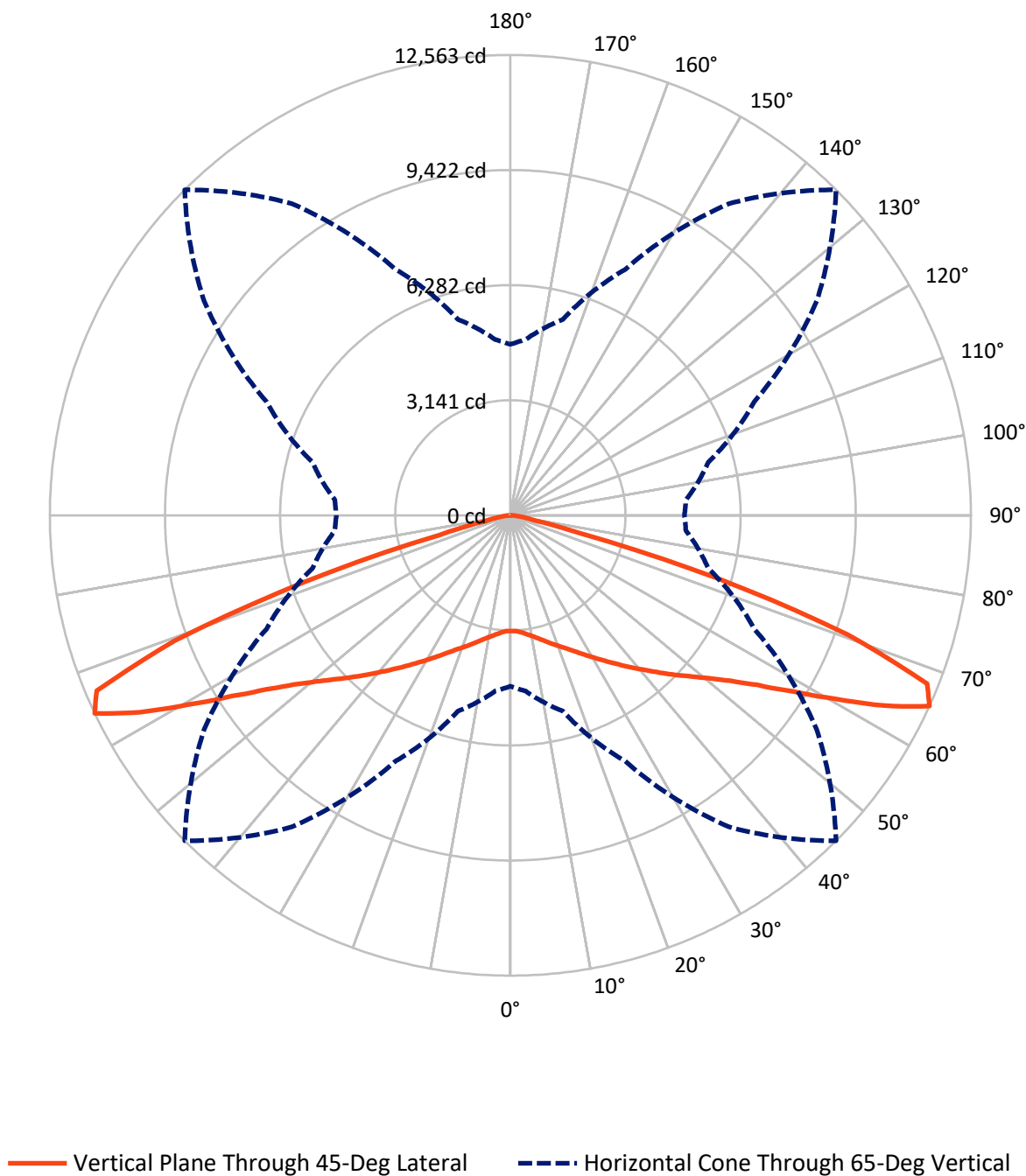
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	13283.5	0.0	13283.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13283.5	0.0	13283.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26566.9	0.0	26566.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	1.2
10°-20°	1018.2	3.8
20°-30°	1922.5	7.2
30°-40°	3147.9	11.8
40°-50°	4880.9	18.4
50°-60°	7210.1	27.1
60°-70°	6863.4	25.8
70°-80°	1107.5	4.2
80°-90°	104.4	0.4
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°	26566.9	100.0
0°-180°	26566.9	100.0

Coefficient of Utilization



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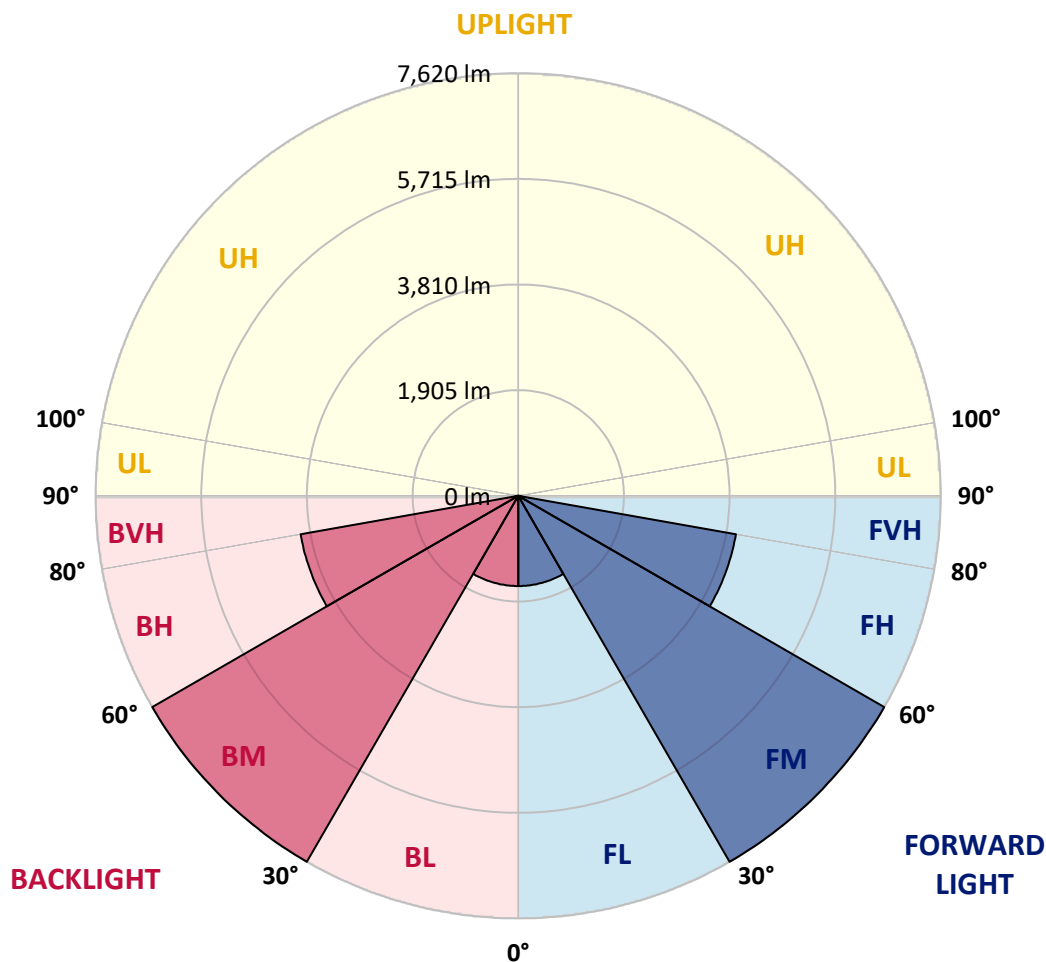
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1626.3	6.1			
FM	(30°-60°)	7619.5	28.7			
FH	(60°-80°)	3985.4	15.0			G2/5000
FVH	(80°-90°)	52.2	0.2			G1/100
BL	(0°-30°)	1626.3	6.1	B3/2500		
BM	(30°-60°)	7619.5	28.7	B4/8500		
BH	(60°-80°)	3985.4	15.0	B4/5000		G2/5000
BVH	(80°-90°)	52.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7
2.5°	3183.0	3172.4	3180.4	3173.7	3168.4	3163.0	3165.7	3175.0	3179.0	3180.4	3180.4
5°	3225.7	3216.3	3220.3	3220.3	3211.0	3208.4	3209.7	3216.3	3224.3	3224.3	3224.3
7.5°	3295.1	3285.7	3295.1	3289.7	3281.7	3279.1	3277.7	3283.1	3295.1	3295.1	3291.1
10°	3379.0	3368.4	3373.7	3371.0	3361.7	3357.7	3356.4	3364.4	3375.0	3373.7	3371.0
12.5°	3471.0	3459.0	3465.6	3457.6	3455.0	3451.0	3451.0	3449.6	3456.3	3451.0	3453.6
15°	3573.7	3565.7	3568.3	3562.9	3567.0	3564.3	3553.6	3548.2	3550.9	3542.9	3544.2
17.5°	3694.9	3676.3	3685.6	3682.9	3682.9	3688.3	3670.9	3664.3	3669.6	3661.6	3668.3
20°	3834.8	3816.2	3820.2	3814.8	3808.2	3813.5	3792.2	3797.5	3801.5	3796.2	3808.2
22.5°	3988.2	3964.2	3962.9	3965.5	3950.9	3952.2	3937.5	3950.9	3958.9	3944.2	3958.9
25°	4145.4	4120.1	4137.4	4130.8	4112.1	4116.1	4105.4	4118.8	4125.4	4106.8	4128.1
27.5°	4312.1	4294.8	4310.7	4314.7	4292.1	4308.1	4292.1	4304.1	4310.7	4282.8	4304.1
30°	4506.7	4489.3	4504.1	4514.7	4488.0	4513.4	4500.1	4508.1	4509.4	4476.0	4496.1
32.5°	4718.6	4691.9	4729.2	4734.6	4705.3	4735.9	4718.6	4729.2	4735.9	4690.6	4721.3
35°	4977.2	4943.9	4986.5	4979.9	4954.5	4979.9	4963.9	4979.9	4995.8	4941.2	4974.5
37.5°	5255.8	5221.1	5266.4	5254.5	5230.5	5247.8	5238.5	5249.1	5274.4	5215.8	5251.8
40°	5562.4	5519.7	5581.0	5559.7	5537.0	5534.4	5539.7	5546.4	5579.7	5514.4	5535.7
42.5°	5890.3	5845.0	5936.9	5903.6	5871.6	5850.3	5867.6	5880.9	5912.9	5839.6	5878.3
45°	6264.8	6212.8	6332.8	6292.8	6242.1	6198.2	6226.2	6246.1	6292.8	6204.8	6250.1
47.5°	6678.1	6619.3	6747.4	6735.4	6652.7	6556.7	6620.7	6678.1	6712.7	6606.0	6642.0
50°	7081.9	7036.6	7204.5	7219.2	7117.9	6983.3	7072.6	7159.2	7168.5	7028.6	7046.0
52.5°	7460.5	7415.2	7659.1	7751.0	7660.4	7500.4	7595.1	7683.1	7612.5	7431.1	7436.5
55°	7763.0	7725.7	8036.3	8273.6	8304.2	8172.2	8228.3	8225.6	7993.7	7715.1	7724.4
57.5°	7836.3	7831.0	8223.0	8725.4	9045.3	9061.3	8950.7	8668.1	8168.2	7793.7	7769.7
60°	7503.1	7536.4	8074.9	8961.4	9814.5	10169.0	9690.5	8884.1	7969.7	7449.8	7388.5
62.5°	6506.1	6594.0	7243.2	8673.4	10435.6	11443.3	10283.6	8556.2	7153.9	6475.4	6435.5
65°	4662.6	4816.0	5533.1	7401.8	10379.6	12563.0	10198.3	7341.9	5586.4	4804.0	4746.6
67.5°	2115.4	2271.3	2880.5	5067.8	9022.7	12259.1	9001.3	5121.2	3024.5	2279.3	2246.0
70°	766.4	793.1	989.0	2028.8	5766.3	9767.8	6012.9	2043.4	1051.6	845.1	834.5
72.5°	463.8	467.9	509.2	726.4	2003.4	5930.2	2088.7	750.4	519.9	461.1	469.2
75°	294.6	291.9	362.5	443.8	710.4	2000.7	745.1	443.8	361.2	329.2	331.9
77.5°	212.0	218.6	259.9	331.9	447.8	678.4	439.8	317.2	259.9	213.3	217.3
80°	158.7	162.7	189.3	258.6	314.6	422.5	279.9	234.6	196.0	133.2	137.2
82.5°	114.6	114.6	123.9	188.0	192.0	228.0	151.9	165.3	129.3	94.6	94.6
85°	68.0	66.6	77.3	111.9	99.9	83.9	69.3	101.3	81.3	58.6	57.3
87.5°	24.0	25.3	24.0	32.0	26.6	22.7	21.3	28.0	22.7	20.0	18.7
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)