

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: P965016

Luminaire Tested: **NAV-SB3D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965016
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-SB3D-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30417.9 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

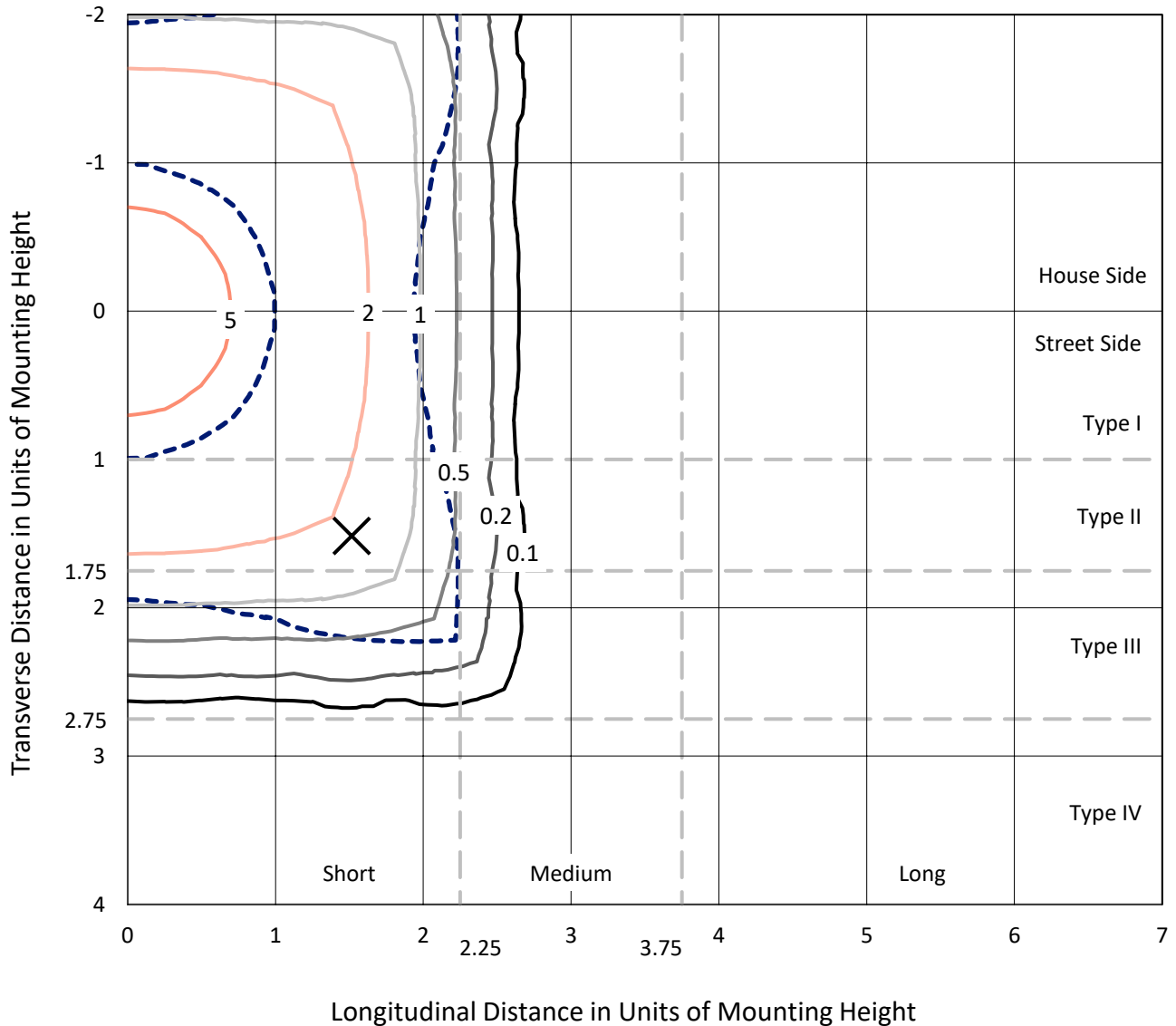
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

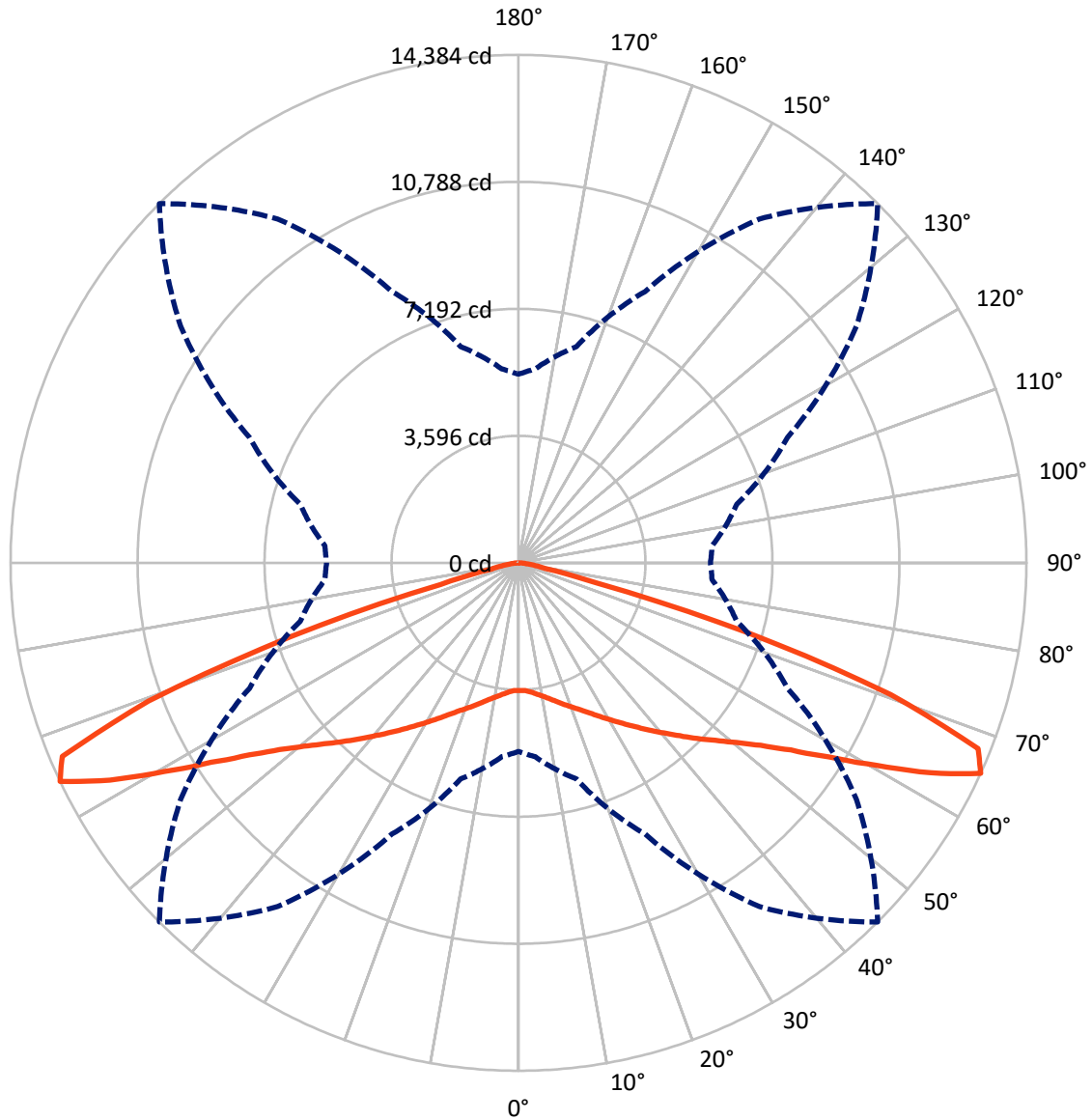
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15209.0	0.0	15209.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15209.0	0.0	15209.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30417.9	0.0	30417.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.2
10°-20°	1165.8	3.8
20°-30°	2201.1	7.2
30°-40°	3604.3	11.8
40°-50°	5588.4	18.4
50°-60°	8255.3	27.1
60°-70°	7858.3	25.8
70°-80°	1268.0	4.2
80°-90°	119.5	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°	30417.9	100.0
0°-180°	30417.9	100.0

Coefficient of Utilization



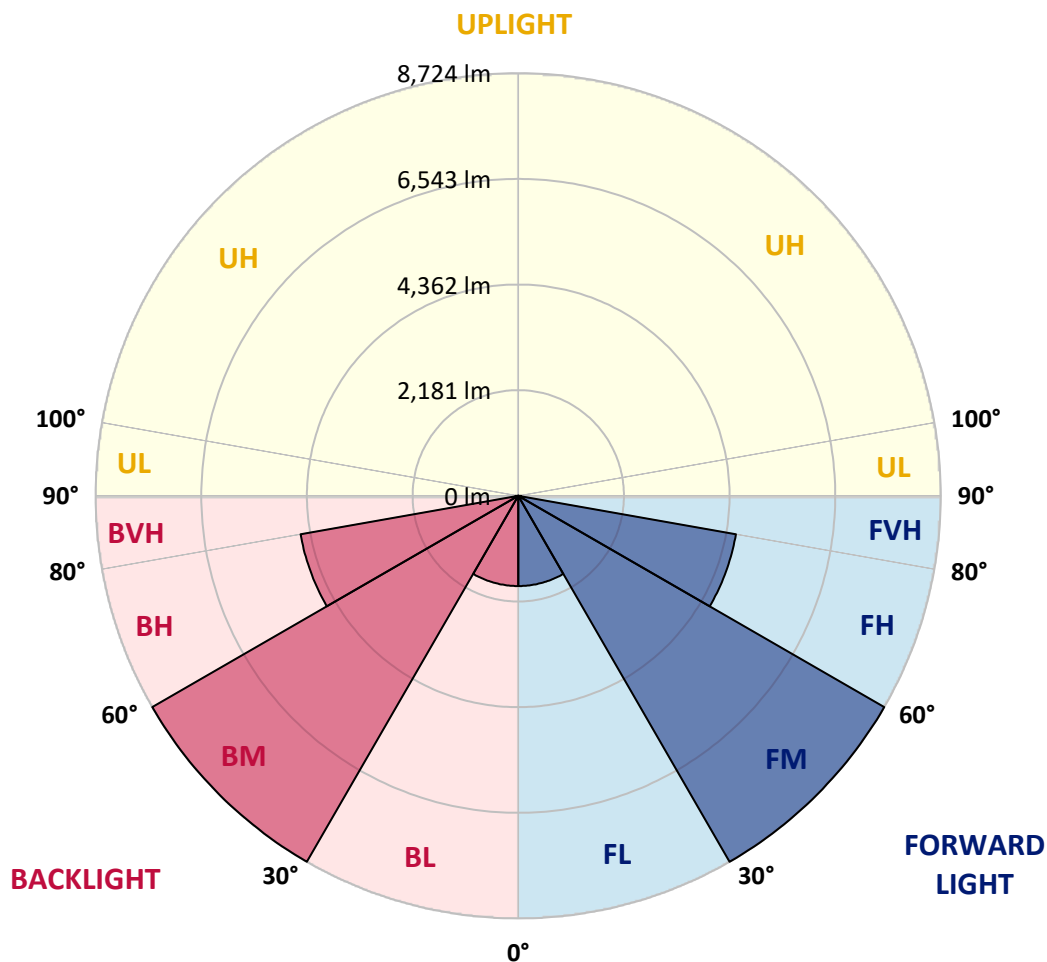
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.1	6.1			
FM (30°-60°)	8724.0	28.7			
FH (60°-80°)	4563.1	15.0			G2/5000
FVH (80°-90°)	59.8	0.2			G1/100
BL (0°-30°)	1862.1	6.1	B3/2500		
BM (30°-60°)	8724.0	28.7	B5		
BH (60°-80°)	4563.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	59.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3620.0	3620.0	3620.0	3620.0	3620.0	3620.0	3620.0	3620.0	3620.0	3620.0	3620.0
2.5°	3644.5	3632.3	3641.4	3633.7	3627.7	3621.5	3624.6	3635.3	3639.9	3641.4	3641.4
5°	3693.3	3682.6	3687.2	3687.2	3676.5	3673.5	3674.9	3682.6	3691.7	3691.7	3691.7
7.5°	3772.6	3762.0	3772.6	3766.6	3757.3	3754.4	3752.8	3758.9	3772.6	3772.6	3768.1
10°	3868.8	3856.6	3862.7	3859.6	3849.0	3844.4	3842.8	3852.1	3864.2	3862.7	3859.6
12.5°	3974.1	3960.4	3968.0	3958.9	3955.8	3951.2	3951.2	3949.6	3957.3	3951.2	3954.2
15°	4091.6	4082.5	4085.5	4079.4	4084.0	4080.9	4068.7	4062.6	4065.7	4056.5	4058.1
17.5°	4230.5	4209.2	4219.8	4216.7	4216.7	4222.9	4203.0	4195.4	4201.5	4192.4	4199.9
20°	4390.8	4369.4	4374.0	4367.8	4360.2	4366.3	4341.9	4348.0	4352.6	4346.5	4360.2
22.5°	4566.3	4538.8	4537.3	4540.3	4523.5	4525.1	4508.3	4523.5	4532.7	4515.8	4532.7
25°	4746.4	4717.4	4737.1	4729.6	4708.1	4712.7	4700.5	4715.8	4723.4	4702.1	4726.5
27.5°	4937.1	4917.2	4935.6	4940.2	4914.3	4932.5	4914.3	4928.0	4935.6	4903.5	4928.0
30°	5160.0	5140.1	5156.9	5169.1	5138.5	5167.5	5152.3	5161.5	5162.9	5124.8	5147.8
32.5°	5402.6	5372.0	5414.8	5420.9	5387.3	5422.5	5402.6	5414.8	5422.5	5370.5	5405.6
35°	5698.7	5660.5	5709.4	5701.7	5672.8	5701.7	5683.4	5701.7	5720.0	5657.5	5695.6
37.5°	6017.6	5977.9	6029.9	6016.1	5988.7	6008.4	5997.8	6010.0	6039.0	5971.9	6013.1
40°	6368.6	6319.8	6390.0	6365.6	6339.6	6336.5	6342.7	6350.3	6388.5	6313.7	6338.1
42.5°	6744.1	6692.2	6797.5	6759.4	6722.7	6698.3	6718.2	6733.4	6770.0	6686.1	6730.4
45°	7173.0	7113.4	7250.7	7204.9	7147.0	7096.6	7128.7	7151.5	7204.9	7104.3	7156.1
47.5°	7646.0	7578.8	7725.4	7711.7	7617.0	7507.1	7580.4	7646.0	7685.7	7563.6	7604.8
50°	8108.5	8056.6	8248.9	8265.6	8149.7	7995.5	8097.8	8196.9	8207.7	8047.4	8067.3
52.5°	8541.8	8490.0	8769.3	8874.6	8770.8	8587.7	8696.0	8796.8	8715.9	8508.3	8514.4
55°	8888.3	8845.5	9201.2	9472.8	9507.9	9356.8	9421.0	9417.9	9152.3	8833.3	8844.0
57.5°	8972.2	8966.2	9414.8	9990.2	10356.5	10374.7	10248.2	9924.6	9352.3	8923.4	8896.0
60°	8590.7	8628.9	9245.4	10260.4	11237.1	11643.0	11095.1	10171.8	9124.9	8529.6	8459.4
62.5°	7449.2	7549.8	8293.1	9930.7	11948.2	13102.1	11774.3	9796.3	8190.9	7414.0	7368.3
65°	5338.5	5514.0	6335.0	8474.7	11884.2	14384.0	11676.6	8406.0	6396.1	5500.3	5434.7
67.5°	2422.0	2600.5	3298.0	5802.4	10330.6	14036.0	10306.1	5863.5	3462.9	2609.8	2571.5
70°	877.5	908.0	1132.4	2322.9	6602.1	11183.7	6884.5	2339.6	1204.2	967.6	955.4
72.5°	531.1	535.7	583.0	831.8	2293.8	6789.8	2391.5	859.3	595.2	528.1	537.2
75°	337.3	334.3	415.1	508.2	813.4	2290.8	853.1	508.2	413.6	377.0	380.0
77.5°	242.6	250.3	297.6	380.0	512.8	776.8	503.6	363.3	297.6	244.2	248.8
80°	181.6	186.1	216.7	296.1	360.2	483.8	320.5	268.7	224.4	152.6	157.2
82.5°	131.2	131.2	142.0	215.1	219.8	261.0	173.9	189.2	148.0	108.3	108.3
85°	77.8	76.3	88.6	128.2	114.5	96.1	79.3	116.0	93.1	67.1	65.6
87.5°	27.5	29.0	27.5	36.6	30.5	25.9	24.4	32.1	25.9	22.9	21.3
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)