

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: P971344

Luminaire Tested: **NAV-SB6D-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971344
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-SB6D-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60412.5 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

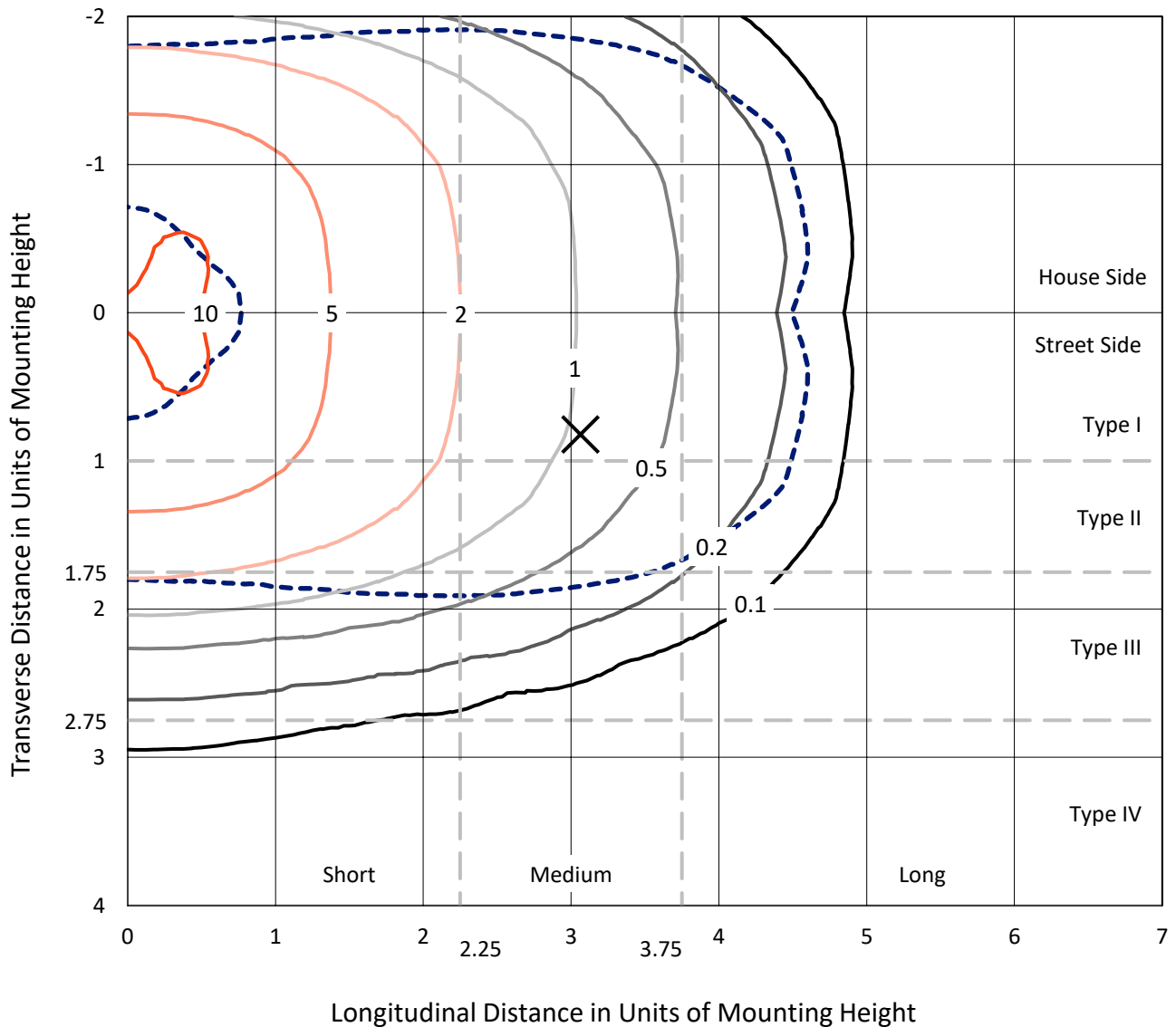
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

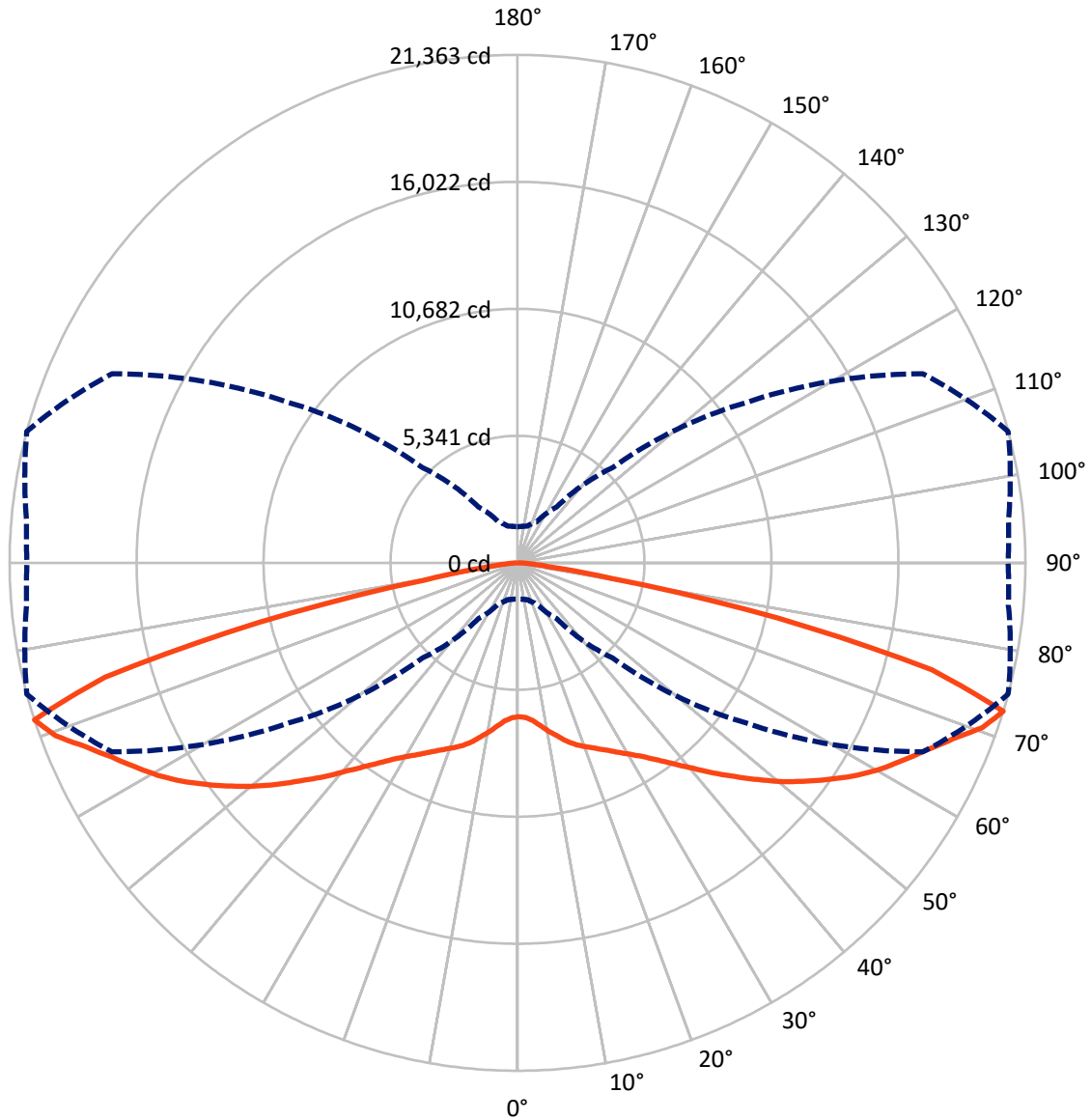
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P971344
CATALOG NUMBER: NAV-SB6D-727-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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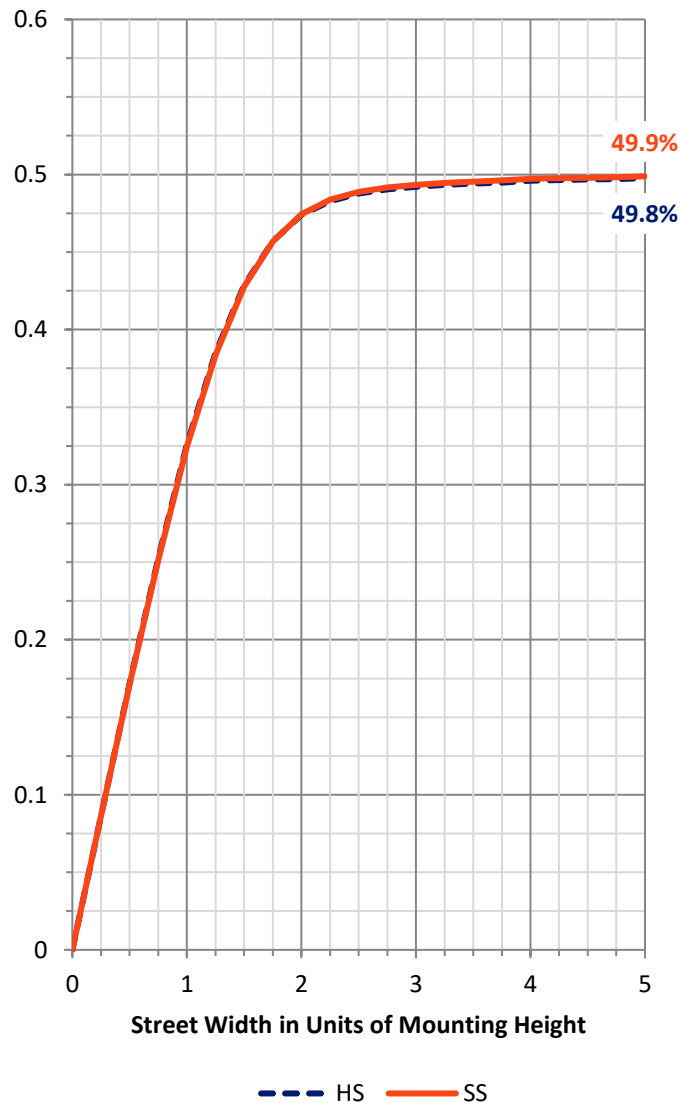
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30206.2	0.0	30206.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30206.2	0.0	30206.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	60412.5	0.0	60412.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.9	1.0
10°-20°	2090.8	3.5
20°-30°	4040.0	6.7
30°-40°	6821.8	11.3
40°-50°	10818.6	17.9
50°-60°	14484.8	24.0
60°-70°	13784.9	22.8
70°-80°	7193.2	11.9
80°-90°	544.5	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°	60412.5	100.0
0°-180°	60412.5	100.0

Coefficient of Utilization



REPORT NUMBER: P971344

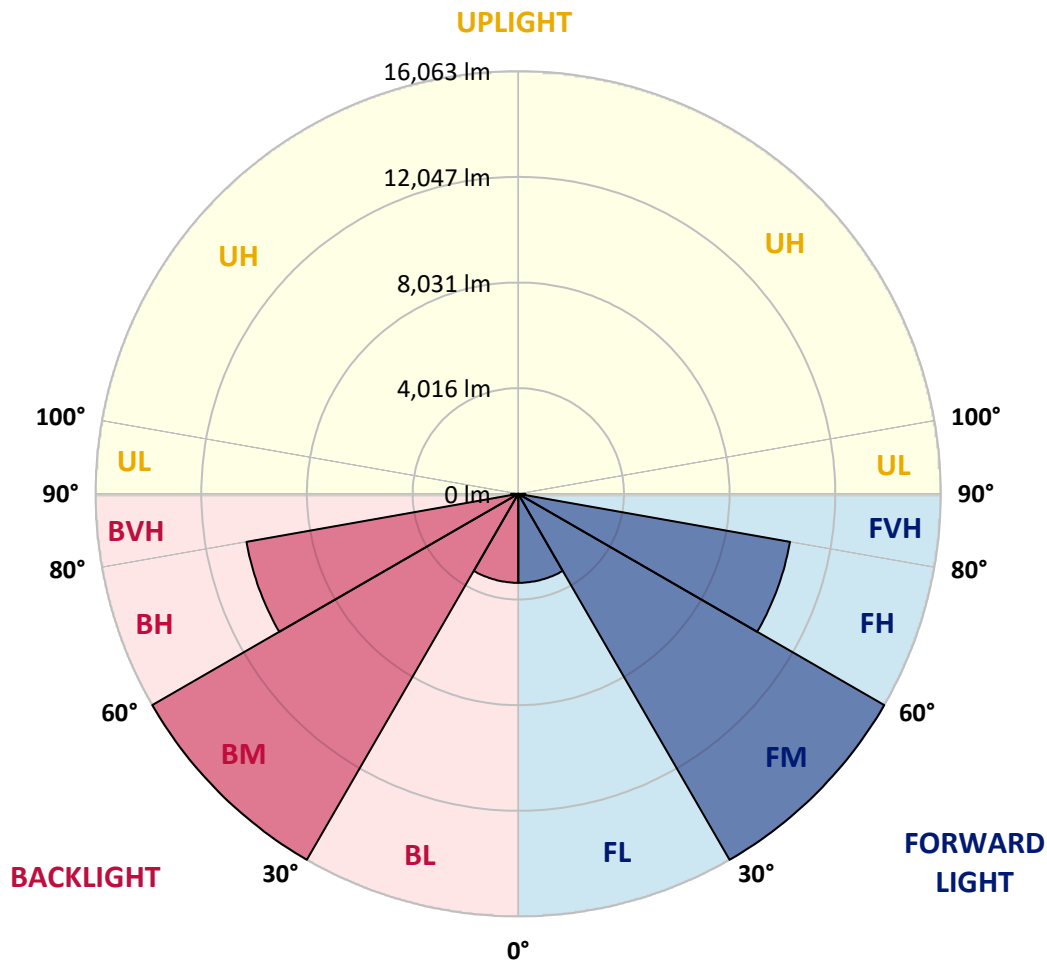
CATALOG NUMBER: NAV-SB6D-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.4	5.6			
FM (30°-60°)	16062.6	26.6			
FH (60°-80°)	10489.0	17.4			G4/12000
FVH (80°-90°)	272.2	0.5			G3/500
BL (0°-30°)	3382.4	5.6	B4/5000		
BM (30°-60°)	16062.6	26.6	B5		
BH (60°-80°)	10489.0	17.4	B5		G5
BVH (80°-90°)	272.2	0.5			G3/500
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°	6471.2	6471.2	6471.2	6471.2	6471.2	6471.2	6471.2	6471.2	6471.2	6471.2	6471.2
2.5°	6471.2	6465.1	6471.2	6477.4	6474.3	6474.3	6489.8	6499.0	6517.6	6514.5	6511.3
5°	6428.1	6425.0	6449.7	6477.4	6499.0	6536.0	6582.3	6616.3	6659.4	6668.6	6668.6
7.5°	6406.5	6397.2	6440.4	6489.8	6557.6	6650.2	6739.6	6832.1	6906.1	6930.8	6937.0
10°	6421.9	6425.0	6483.6	6576.1	6684.1	6813.6	6940.1	7097.4	7202.3	7227.0	7251.7
12.5°	6492.9	6486.7	6585.4	6733.4	6881.5	7044.9	7193.0	7365.8	7479.8	7538.5	7563.2
15°	6622.4	6610.0	6748.9	6967.8	7183.8	7375.0	7495.3	7658.8	7791.4	7865.4	7893.2
17.5°	6776.6	6782.8	6964.8	7248.6	7532.3	7748.3	7862.4	7945.6	8047.5	8112.2	8143.0
20°	7048.1	7060.4	7264.0	7600.2	7924.1	8170.8	8263.3	8232.5	8260.3	8309.6	8346.7
22.5°	7412.0	7418.2	7646.4	8010.4	8349.8	8621.2	8682.9	8556.4	8479.2	8513.2	8537.8
25°	7834.6	7874.7	8102.9	8476.1	8824.7	9083.9	9111.5	8920.4	8729.1	8738.3	8753.8
27.5°	8349.8	8386.8	8618.1	8988.2	9342.9	9568.1	9565.0	9308.9	9028.3	8957.4	8978.9
30°	8908.0	8948.1	9185.6	9568.1	9898.1	10095.5	10052.4	9747.0	9345.9	9213.4	9228.8
32.5°	9571.1	9595.8	9836.4	10218.9	10524.3	10681.6	10592.1	10215.9	9716.2	9565.0	9602.0
35°	10373.1	10410.1	10589.1	10950.0	11218.3	11347.9	11196.7	10752.6	10191.2	10021.5	10046.2
37.5°	11289.2	11264.5	11468.1	11788.9	12010.9	12091.2	11884.6	11357.1	10734.0	10533.5	10570.5
40°	12245.5	12233.1	12455.2	12763.6	12883.9	12933.2	12627.9	12051.1	11360.2	11144.2	11215.2
42.5°	13112.2	13102.9	13402.1	13744.5	13889.5	13833.9	13448.4	12788.3	12085.1	11838.2	11899.9
45°	13806.1	13793.8	14160.9	14642.0	14925.8	14833.3	14315.2	13602.6	12819.2	12563.1	12621.7
47.5°	14339.7	14346.0	14740.7	15336.0	15832.7	15866.6	15200.3	14432.3	13627.3	13337.3	13423.7
50°	14725.4	14743.9	15166.4	15826.5	16505.1	16804.3	16104.1	15283.7	14463.2	14136.2	14234.9
52.5°	14821.0	14854.9	15363.8	16138.0	16936.9	17507.5	17023.3	16101.0	15255.9	14944.4	15024.6
55°	14312.1	14379.9	15024.6	16113.4	17202.2	17970.2	17831.4	16930.7	16054.8	15734.0	15823.4
57.5°	13143.0	13238.6	13991.2	15413.2	17143.6	18287.9	18457.6	17726.6	16853.7	16545.2	16616.2
60°	11505.1	11619.3	12341.0	13892.5	16317.0	18405.1	18898.6	18500.7	17587.8	17288.6	17353.4
62.5°	9034.5	9182.6	10046.2	11866.0	14571.1	17859.2	19274.9	19200.9	18247.9	17874.6	17917.8
65°	5795.8	5953.1	6863.0	9012.9	12242.3	16187.4	19392.2	19882.6	18945.0	18423.7	18488.4
67.5°	3494.7	3565.7	4016.1	5462.6	8948.1	13667.4	18399.0	20638.3	19759.2	19111.5	19160.8
70°	2236.2	2276.3	2544.7	3207.8	5058.6	9972.1	15937.5	20780.2	20746.3	19817.9	19811.7
72.5°	1517.6	1529.9	1600.8	1900.0	2862.4	5666.2	11755.0	18812.3	21363.2	20727.8	20629.0
75°	1110.4	1178.2	1292.4	1344.8	1625.5	2831.6	6736.5	13217.1	18004.1	18281.8	17609.4
77.5°	826.7	829.7	987.1	1048.7	1159.8	1508.3	2850.1	7378.1	11178.1	11736.5	10468.7
80°	700.2	663.2	660.1	845.1	872.9	940.7	1273.9	2547.7	4003.6	2427.5	1835.3
82.5°	582.9	542.8	490.5	660.1	595.3	576.8	552.2	1036.4	1273.9	626.2	533.6
85°	407.1	388.7	370.1	431.8	339.3	290.0	265.3	484.3	536.7	265.3	234.4
87.5°	175.8	181.9	185.1	191.3	141.9	101.8	101.8	135.7	135.7	104.9	77.1
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)