

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: P971402

Luminaire Tested: **NAV-SB6D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971402
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-SB6D-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66279.6 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

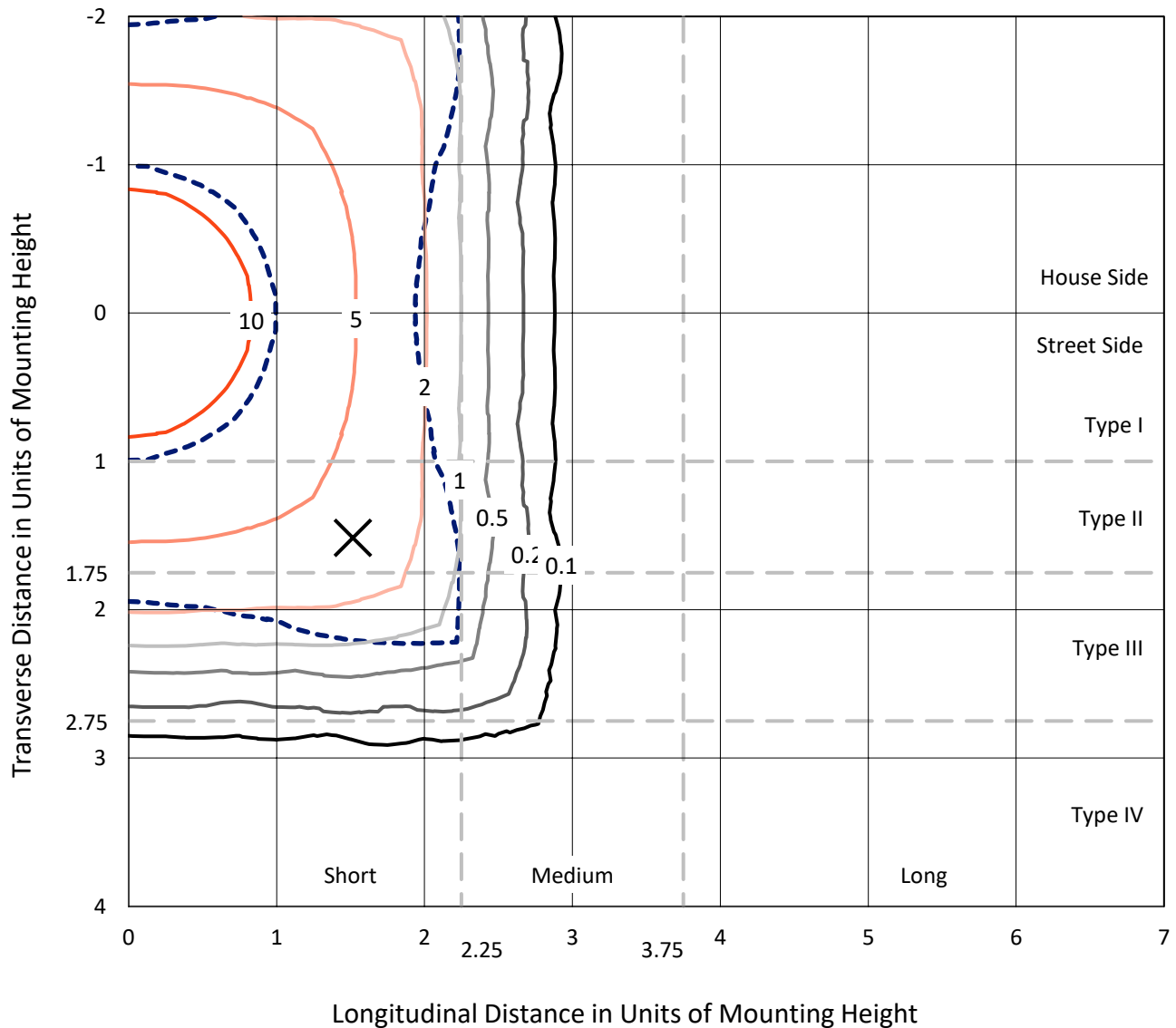
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971402
CATALOG NUMBER: NAV-SB6D-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

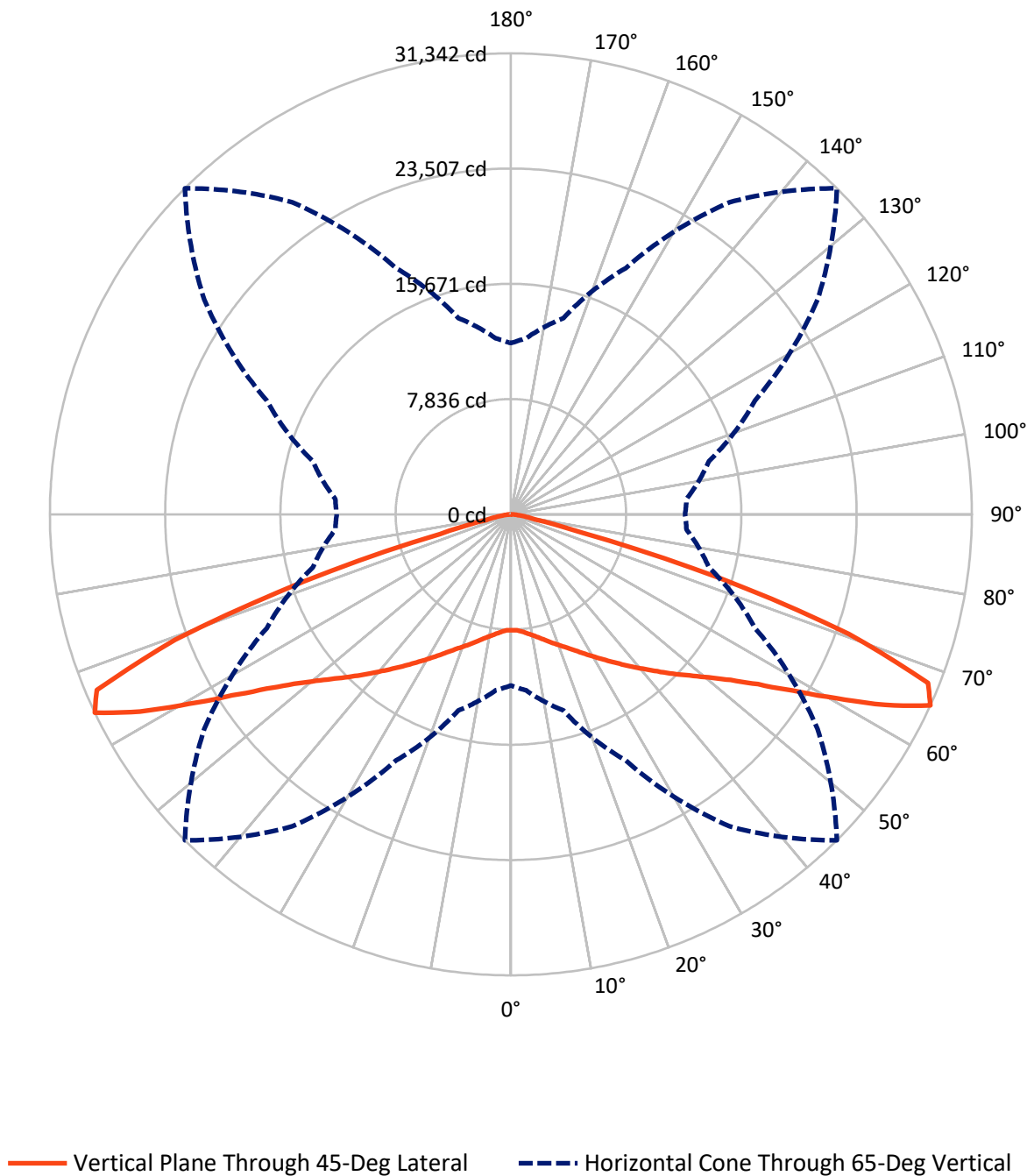
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type V - Short - N/A

REPORT NUMBER: P971402
CATALOG NUMBER: NAV-SB6D-735-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33139.8	0.0	33139.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33139.8	0.0	33139.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	66279.6	0.0	66279.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.5	1.2
10°-20°	2540.2	3.8
20°-30°	4796.2	7.2
30°-40°	7853.5	11.8
40°-50°	12177.0	18.4
50°-60°	17987.9	27.1
60°-70°	17122.8	25.8
70°-80°	2763.0	4.2
80°-90°	260.5	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°	66279.6	100.0
0°-180°	66279.6	100.0

Coefficient of Utilization



REPORT NUMBER: P971402

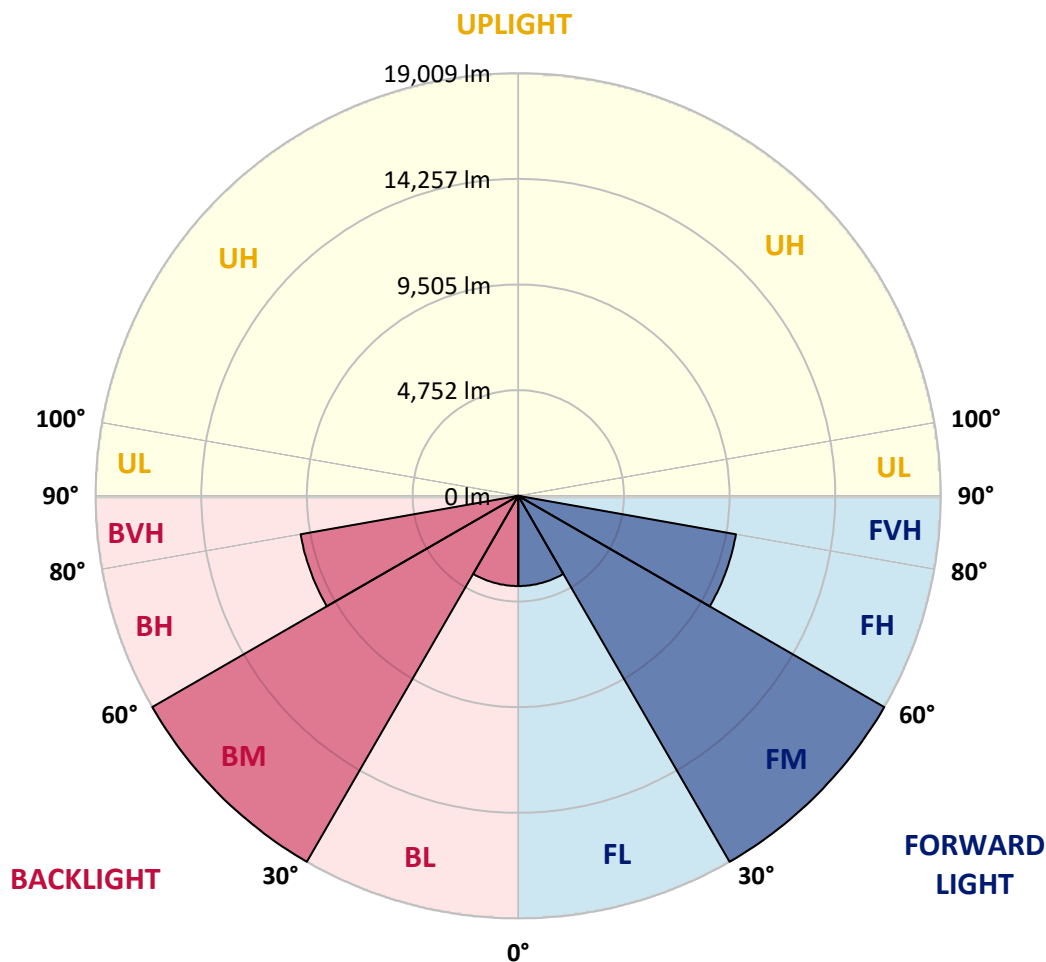
CATALOG NUMBER: NAV-SB6D-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4057.4	6.1			
FM	(30°-60°)	19009.2	28.7			
FH	(60°-80°)	9942.9	15.0			G4/12000
FVH	(80°-90°)	130.2	0.2			G2/225
BL	(0°-30°)	4057.4	6.1	B4/5000		
BM	(30°-60°)	19009.2	28.7	B5		
BH	(60°-80°)	9942.9	15.0	B5		G4/12000
BVH	(80°-90°)	130.2	0.2			G2/225
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



REPORT NUMBER: P971402

CATALOG NUMBER: NAV-SB6D-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7887.9	7887.9	7887.9	7887.9	7887.9	7887.9	7887.9	7887.9	7887.9	7887.9	7887.9
2.5°	7941.2	7914.5	7934.5	7917.8	7904.6	7891.3	7897.9	7921.2	7931.1	7934.5	7934.5
5°	8047.6	8024.3	8034.3	8034.3	8011.0	8004.3	8007.6	8024.3	8044.2	8044.2	8044.2
7.5°	8220.5	8197.2	8220.5	8207.2	8187.2	8180.5	8177.2	8190.6	8220.5	8220.5	8210.5
10°	8430.0	8403.4	8416.7	8410.0	8386.8	8376.8	8373.4	8393.4	8420.0	8416.7	8410.0
12.5°	8659.4	8629.5	8646.2	8626.2	8619.5	8609.6	8609.6	8606.2	8622.8	8609.6	8616.3
15°	8915.4	8895.6	8902.2	8888.9	8898.8	8892.2	8865.6	8852.3	8859.0	8839.0	8842.4
17.5°	9218.1	9171.6	9194.9	9188.2	9188.2	9201.5	9158.3	9141.7	9154.9	9135.0	9151.6
20°	9567.2	9520.7	9530.7	9517.4	9500.7	9514.0	9460.9	9474.2	9484.1	9470.8	9500.7
22.5°	9949.7	9889.8	9886.5	9893.2	9856.6	9859.9	9823.3	9856.6	9876.6	9840.0	9876.6
25°	10342.1	10278.9	10322.2	10305.6	10258.9	10269.0	10242.3	10275.6	10292.2	10245.7	10298.9
27.5°	10757.8	10714.5	10754.5	10764.4	10707.9	10747.8	10707.9	10737.8	10754.5	10684.6	10737.8
30°	11243.3	11200.1	11236.7	11263.2	11196.7	11259.9	11226.6	11246.6	11250.0	11166.9	11216.7
32.5°	11772.0	11705.5	11798.7	11811.9	11738.8	11815.3	11772.0	11798.7	11815.3	11702.2	11778.7
35°	12417.2	12334.0	12440.4	12423.8	12360.7	12423.8	12383.9	12423.8	12463.7	12327.4	12410.5
37.5°	13112.2	13025.7	13138.8	13108.8	13049.0	13092.2	13069.0	13095.6	13158.7	13012.5	13102.2
40°	13877.1	13770.7	13923.6	13870.4	13813.8	13807.2	13820.5	13837.1	13920.3	13757.3	13810.5
42.5°	14695.1	14582.1	14811.5	14728.3	14648.6	14595.4	14638.5	14671.8	14751.6	14568.7	14665.2
45°	15629.5	15499.8	15799.1	15699.4	15573.0	15463.3	15533.2	15583.0	15699.4	15479.9	15592.9
47.5°	16660.5	16514.1	16833.4	16803.4	16597.2	16357.8	16517.5	16660.5	16746.9	16480.9	16570.7
50°	17668.0	17555.0	17974.0	18010.6	17757.8	17421.9	17644.8	17860.9	17884.2	17535.0	17578.2
52.5°	18612.5	18499.4	19107.9	19337.4	19111.2	18712.2	18948.4	19167.8	18991.6	18539.3	18552.6
55°	19367.4	19274.2	20049.0	20640.9	20717.5	20388.3	20527.9	20521.2	19942.6	19247.7	19270.9
57.5°	19550.2	19536.9	20514.7	21768.3	22566.4	22606.3	22330.3	21625.3	20378.2	19443.8	19384.0
60°	18718.9	18802.0	20145.5	22356.9	24485.2	25369.8	24176.0	22164.0	19882.7	18585.8	18432.9
62.5°	16231.5	16450.9	18070.4	21638.6	26034.8	28548.8	25655.7	21345.9	17847.6	16154.9	16055.2
65°	11632.4	12014.8	13803.9	18466.1	25895.2	31342.2	25442.9	18316.5	13936.9	11984.9	11841.8
67.5°	5277.4	5666.5	7186.3	12643.3	22509.8	30584.1	22456.6	12776.3	7545.4	5686.5	5603.4
70°	1912.1	1978.7	2467.5	5061.3	14385.9	24368.8	15001.1	5097.9	2623.8	2108.3	2081.7
72.5°	1157.2	1167.3	1270.3	1812.4	4998.1	14794.8	5211.0	1872.3	1296.9	1150.6	1170.6
75°	734.9	728.3	904.6	1107.4	1772.4	4991.4	1858.9	1107.4	901.2	821.3	828.0
77.5°	528.7	545.4	648.4	828.0	1117.4	1692.7	1097.4	791.4	648.4	532.1	542.0
80°	395.8	405.7	472.2	645.1	784.8	1054.2	698.3	585.3	488.8	332.5	342.6
82.5°	286.0	286.0	309.2	468.9	478.9	568.7	379.1	412.4	322.6	236.1	236.1
85°	169.6	166.3	192.9	279.3	249.4	209.5	172.9	252.8	202.8	146.4	143.0
87.5°	59.9	63.1	59.9	79.8	66.5	56.6	53.2	69.8	56.6	49.9	46.5
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)