

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: P970874

Luminaire Tested: **NAV-SB6C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48750 lumens
Efficiency: N/A
Efficacy: 162.0 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



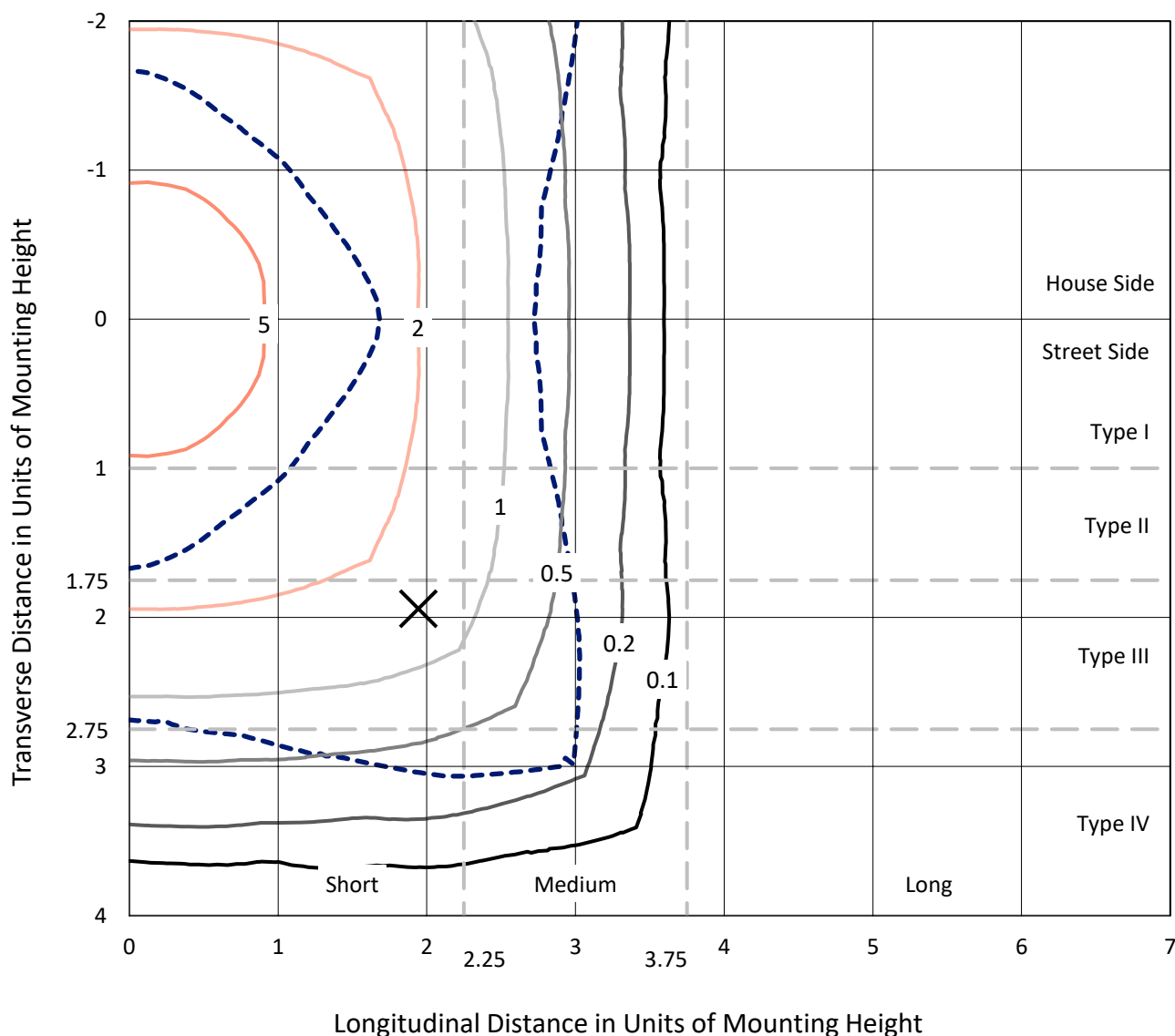
REPORT NUMBER: P970874

CATALOG NUMBER: NAV-SB6C-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

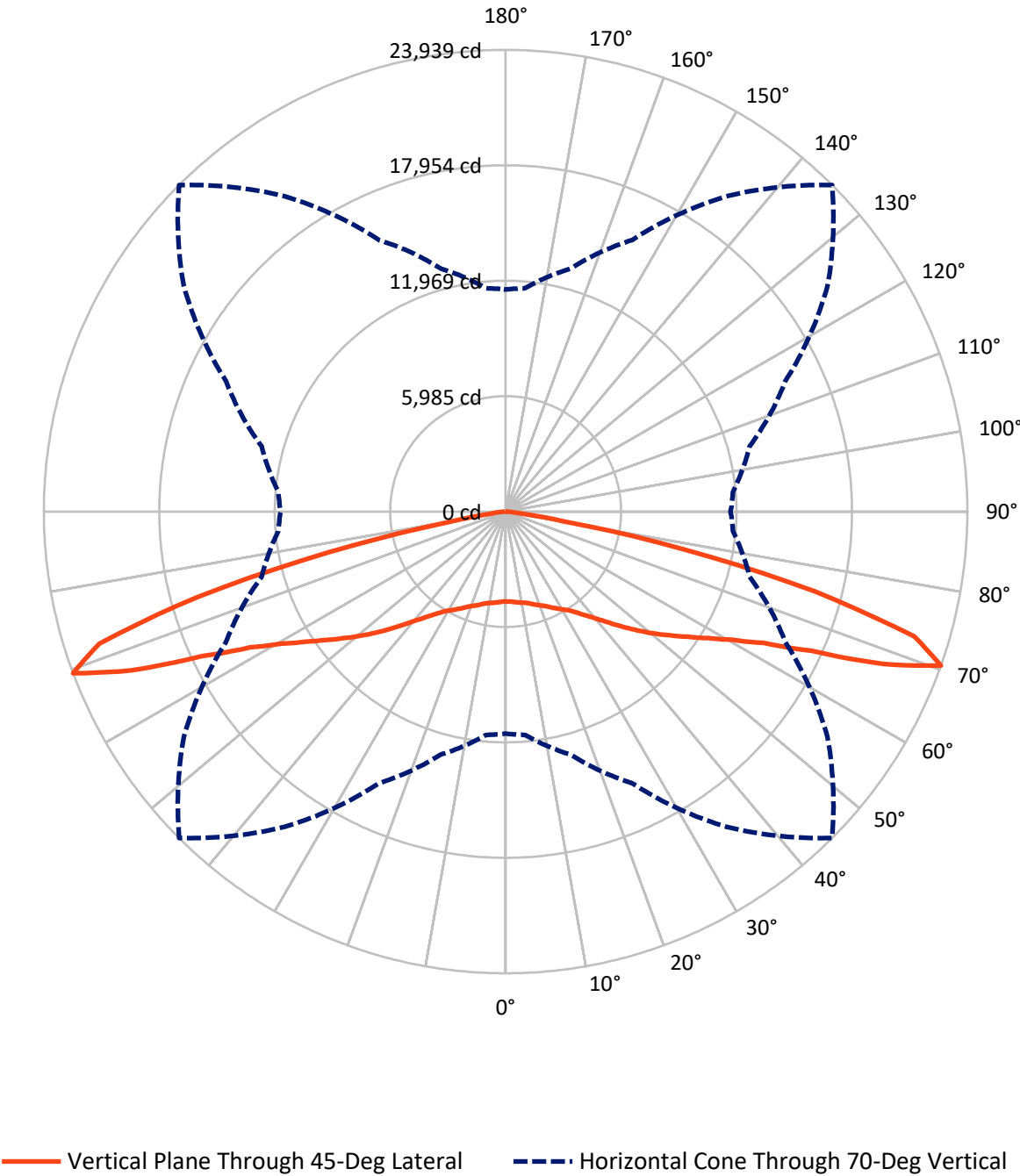


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type V - Short - N/A

REPORT NUMBER: P970874
CATALOG NUMBER: NAV-SB6C-735-U-5MQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24375.0	0.0	24375.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24375.0	0.0	24375.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48750.0	0.0	48750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.7	0.9
10°-20°	1406.8	2.9
20°-30°	2514.0	5.2
30°-40°	4075.3	8.4
40°-50°	6637.9	13.6
50°-60°	10120.6	20.8
60°-70°	15056.2	30.9
70°-80°	8206.1	16.8
80°-90°	279.4	0.6
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°	48750.0	100.0
0°-180°	48750.0	100.0

Coefficient of Utilization



REPORT NUMBER: P970874

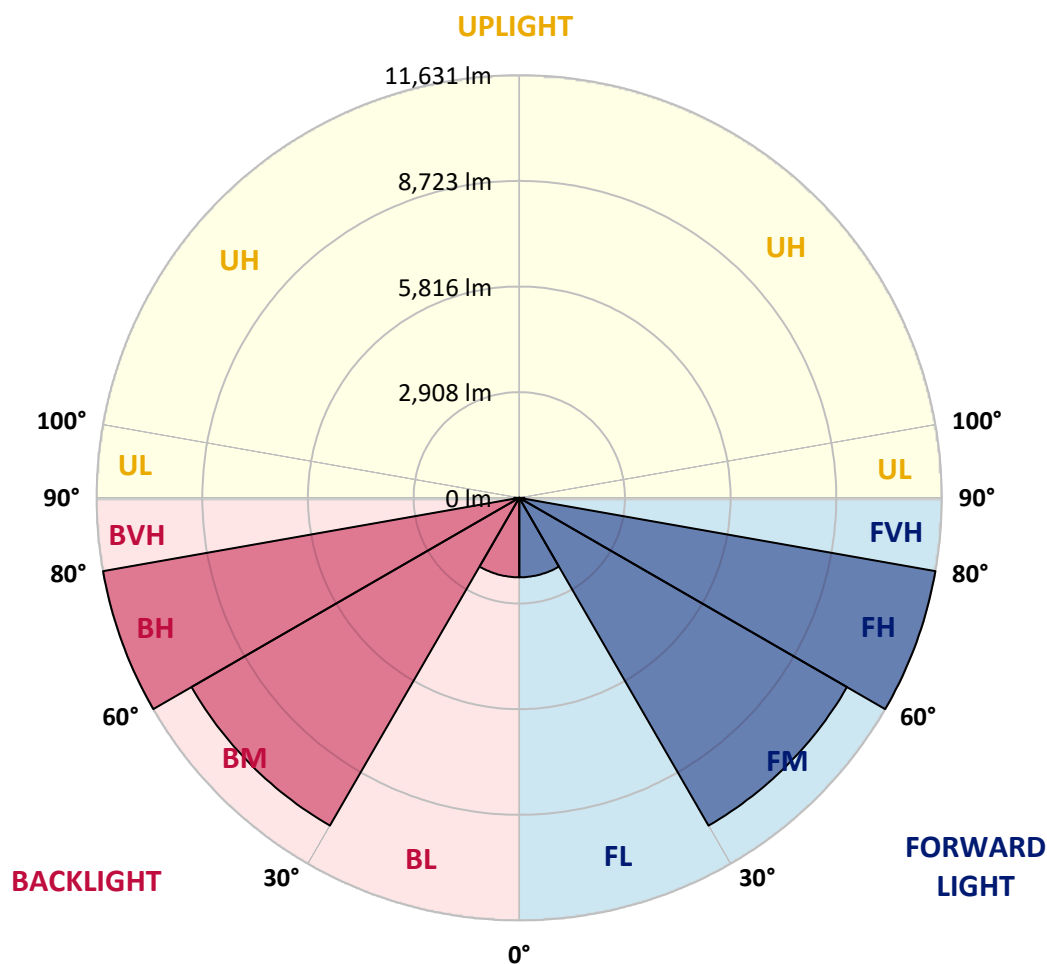
CATALOG NUMBER: NAV-SB6C-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2187.2	4.5			
FM	(30°-60°)	10416.9	21.4			
FH	(60°-80°)	11631.2	23.9			G4/12000
FVH	(80°-90°)	139.7	0.3			G2/225
BL	(0°-30°)	2187.2	4.5	B3/2500		
BM	(30°-60°)	10416.9	21.4	B5		
BH	(60°-80°)	11631.2	23.9	B5		G4/12000
BVH	(80°-90°)	139.7	0.3			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: P970874

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8
2.5°	4691.7	4696.7	4686.9	4682.0	4677.1	4669.8	4672.2	4684.5	4694.2	4691.7	4694.2
5°	4730.9	4735.8	4728.5	4726.1	4716.2	4713.8	4713.8	4726.1	4733.3	4728.5	4730.9
7.5°	4775.0	4782.3	4770.0	4767.7	4762.8	4757.8	4755.4	4767.7	4775.0	4775.0	4775.0
10°	4816.6	4824.0	4814.1	4806.8	4801.9	4801.9	4797.0	4806.8	4819.0	4816.6	4816.6
12.5°	4860.7	4865.6	4855.7	4850.8	4850.8	4858.2	4850.8	4855.7	4865.6	4860.7	4858.2
15°	4914.5	4916.9	4914.5	4921.8	4934.0	4958.5	4936.5	4931.6	4936.5	4924.3	4924.3
17.5°	4988.0	4992.8	5002.6	5019.7	5036.8	5080.9	5041.8	5029.6	5029.6	5005.1	5005.1
20°	5078.5	5085.8	5100.5	5129.9	5151.9	5193.5	5154.3	5137.2	5129.9	5098.0	5098.0
22.5°	5173.9	5186.2	5208.2	5247.4	5286.5	5325.7	5286.5	5257.1	5235.1	5193.5	5191.0
25°	5284.1	5298.7	5333.0	5396.6	5450.4	5506.8	5460.3	5401.5	5357.5	5298.7	5296.3
27.5°	5440.7	5457.8	5499.4	5577.7	5646.3	5695.2	5651.1	5575.3	5514.1	5443.2	5440.7
30°	5661.0	5678.1	5727.1	5810.2	5856.7	5888.6	5859.2	5800.5	5727.1	5646.3	5646.3
32.5°	5944.9	5966.9	6020.7	6099.1	6108.9	6113.7	6104.0	6074.6	6020.7	5922.9	5925.3
35°	6304.7	6329.2	6390.3	6453.9	6444.2	6453.9	6439.3	6429.5	6390.3	6277.7	6277.7
37.5°	6745.2	6774.5	6838.2	6887.2	6862.7	6850.4	6852.8	6855.3	6833.3	6708.5	6708.5
40°	7256.7	7295.8	7342.4	7393.7	7352.1	7315.4	7339.9	7359.5	7339.9	7212.6	7212.6
42.5°	7782.9	7839.2	7888.2	7961.6	7927.4	7880.8	7915.0	7937.1	7895.5	7758.4	7768.3
45°	8367.9	8421.7	8485.4	8595.4	8570.9	8522.1	8570.9	8575.9	8504.9	8343.4	8360.5
47.5°	8972.3	9028.7	9124.1	9270.9	9261.2	9207.4	9270.9	9236.7	9146.2	8952.8	8940.6
50°	9545.1	9623.4	9770.2	9975.8	9995.4	9929.4	10015.0	9949.0	9797.2	9554.8	9550.0
52.5°	10083.5	10166.8	10399.2	10678.2	10749.3	10663.6	10778.6	10663.6	10435.9	10125.2	10095.7
55°	10648.9	10741.9	11018.4	11383.1	11525.1	11461.4	11569.2	11395.3	11072.3	10695.4	10644.0
57.5°	11314.6	11370.8	11701.3	12134.5	12374.3	12389.1	12438.0	12144.3	11752.6	11324.4	11265.7
60°	12036.6	12114.9	12474.7	12993.5	13372.9	13495.3	13443.9	13008.3	12553.0	12061.1	11982.8
62.5°	12961.7	13047.4	13478.1	14099.8	14699.4	15002.9	14802.2	14170.7	13607.9	13018.0	12915.2
65°	13727.8	13823.3	14601.5	15710.2	16801.8	17411.2	16907.1	15744.5	14731.2	13899.1	13762.1
67.5°	13172.2	13289.7	14510.9	16547.3	19261.5	21079.9	19354.5	16796.9	14812.0	13683.7	13514.8
70°	11512.8	11623.0	13047.4	15536.4	19954.1	23938.6	20370.2	15994.1	13093.9	11831.0	11662.1
72.5°	7643.4	7998.3	9439.8	12425.8	17817.5	22151.9	17993.7	12173.6	8757.0	7626.3	7379.1
75°	2535.5	2819.5	3803.4	6441.7	11933.8	16566.9	11361.1	5700.1	3012.8	2168.5	2050.9
77.5°	638.8	736.7	1015.7	1843.0	4760.3	9432.5	4285.5	1505.2	819.9	572.7	511.5
80°	310.8	342.7	489.5	614.3	1191.9	2998.1	1118.5	577.6	386.7	298.6	274.1
82.5°	171.3	173.7	276.5	347.6	443.0	775.8	460.1	337.7	222.7	181.1	181.1
85°	105.3	102.8	146.9	186.0	186.0	276.5	220.3	186.0	127.3	112.5	117.5
87.5°	41.6	41.6	53.8	58.7	51.4	70.9	56.3	61.2	49.0	46.5	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)