

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: P968767

Luminaire Tested: **NAV-SB5C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968767
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-SB5C-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40633.1 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.5
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

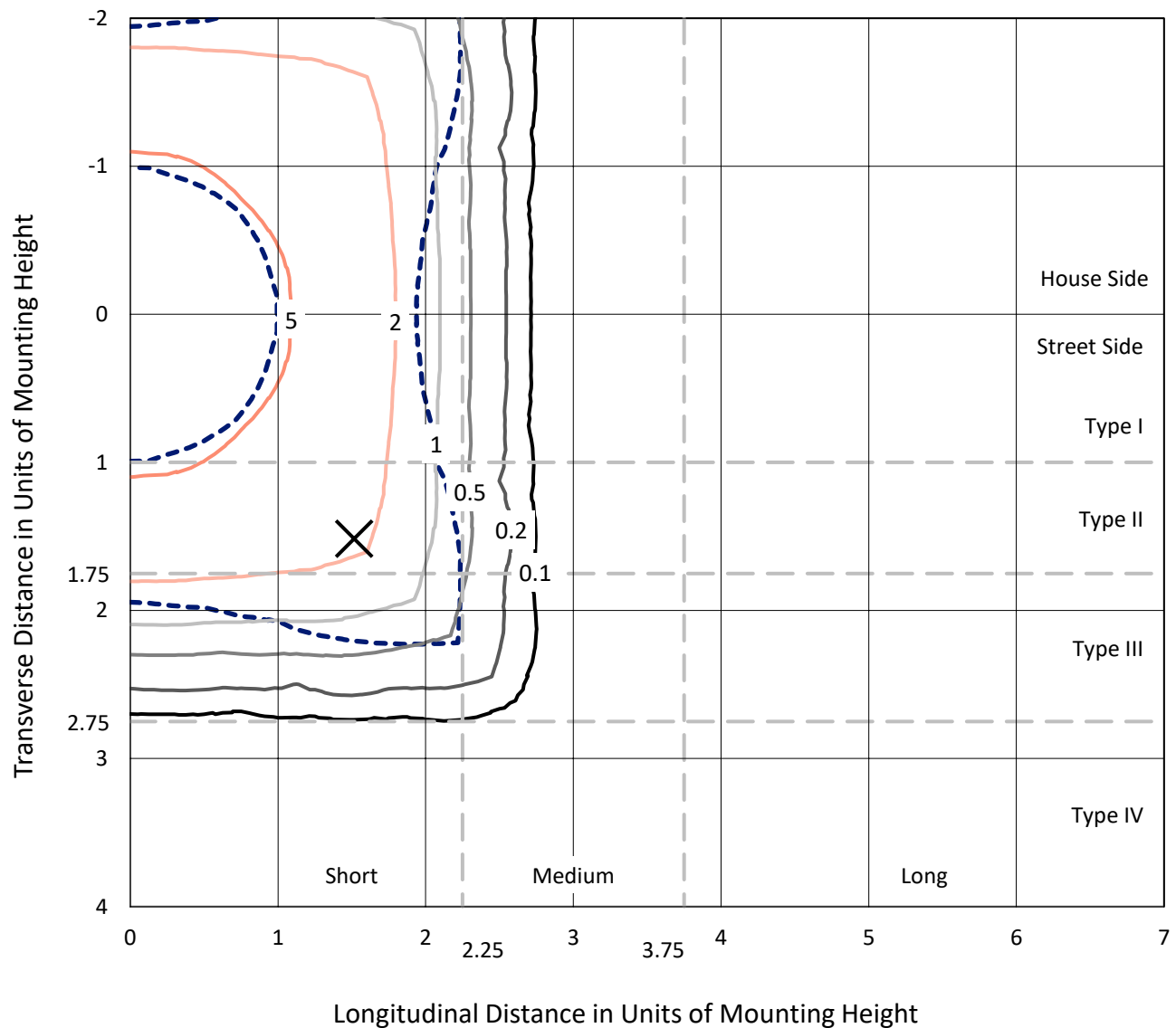


REPORT NUMBER: P968767

CATALOG NUMBER: NAV-SB5C-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

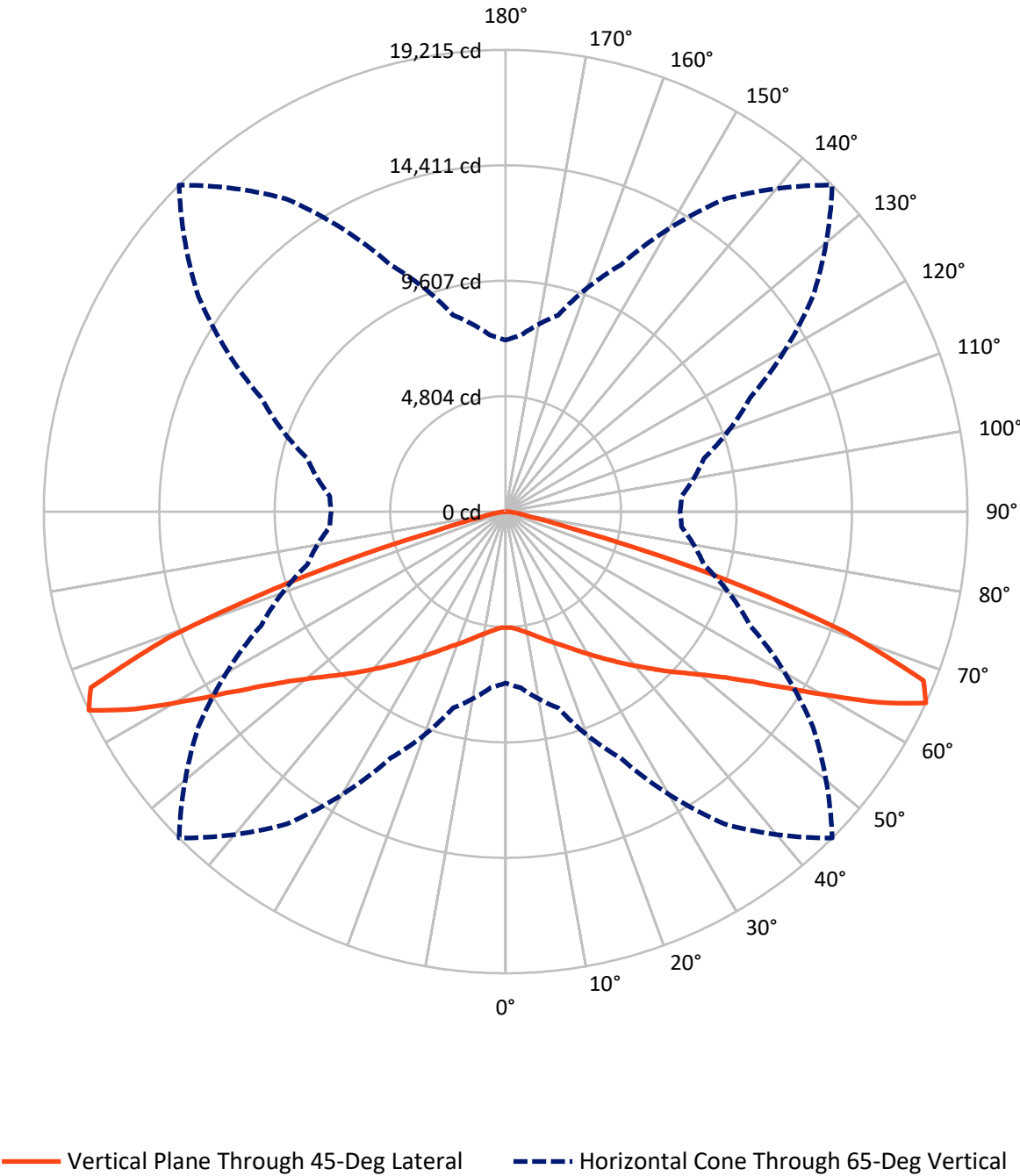
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type V - Short - N/A

REPORT NUMBER: P968767
CATALOG NUMBER: NAV-SB5C-735-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20316.5	0.0	20316.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20316.5	0.0	20316.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40633.1	0.0	40633.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.2	1.2
10°-20°	1557.3	3.8
20°-30°	2940.3	7.2
30°-40°	4814.7	11.8
40°-50°	7465.2	18.4
50°-60°	11027.6	27.1
60°-70°	10497.3	25.8
70°-80°	1693.9	4.2
80°-90°	159.7	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°	40633.1	100.0
0°-180°	40633.1	100.0

Coefficient of Utilization



REPORT NUMBER: P968767

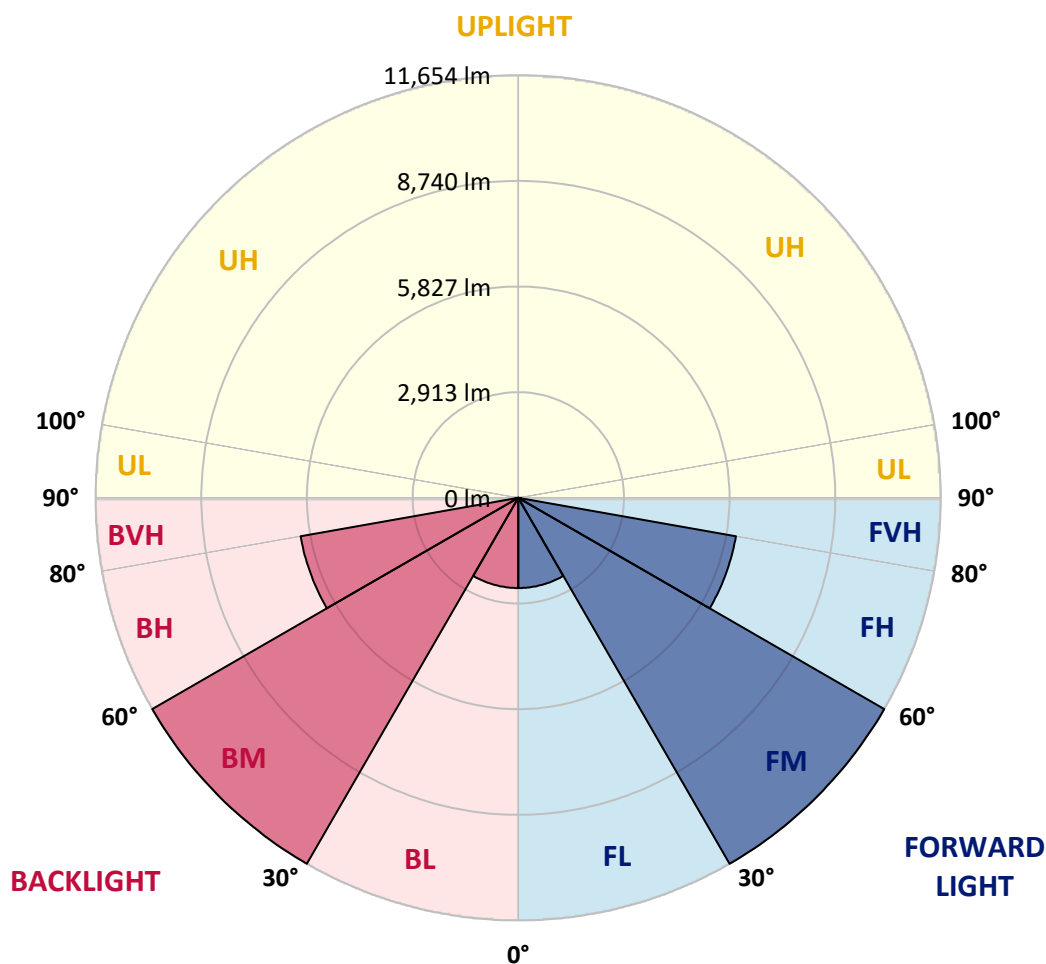
CATALOG NUMBER: NAV-SB5C-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2487.4	6.1			
FM	(30°-60°)	11653.7	28.7			
FH	(60°-80°)	6095.6	15.0			G3/7500
FVH	(80°-90°)	79.8	0.2			G1/100
BL	(0°-30°)	2487.4	6.1	B3/2500		
BM	(30°-60°)	11653.7	28.7	B5		
BH	(60°-80°)	6095.6	15.0	B5		G3/7500
BVH	(80°-90°)	79.8	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-G3

Type V Short



REPORT NUMBER: P968767

CATALOG NUMBER: NAV-SB5C-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4835.7	4835.7	4835.7	4835.7	4835.7	4835.7	4835.7	4835.7	4835.7	4835.7	4835.7
2.5°	4868.3	4852.0	4864.2	4854.1	4845.9	4837.8	4841.9	4856.1	4862.3	4864.2	4864.2
5°	4933.6	4919.3	4925.4	4925.4	4911.2	4907.1	4909.1	4919.3	4931.6	4931.6	4931.6
7.5°	5039.6	5025.4	5039.6	5031.4	5019.2	5015.1	5013.1	5021.3	5039.6	5039.6	5033.5
10°	5168.0	5151.8	5159.8	5155.9	5141.5	5135.5	5133.4	5145.6	5161.9	5159.8	5155.9
12.5°	5308.7	5290.3	5300.6	5288.3	5284.3	5278.1	5278.1	5276.1	5286.3	5278.1	5282.2
15°	5465.7	5453.4	5457.5	5449.4	5455.5	5451.5	5435.1	5427.0	5431.1	5418.8	5420.8
17.5°	5651.2	5622.6	5637.0	5632.9	5632.9	5641.0	5614.5	5604.3	5612.5	5600.3	5610.4
20°	5865.3	5836.8	5842.8	5834.7	5824.5	5832.7	5800.1	5808.2	5814.3	5806.1	5824.5
22.5°	6099.7	6063.0	6061.0	6065.0	6042.7	6044.6	6022.3	6042.7	6054.9	6032.4	6054.9
25°	6340.2	6301.6	6328.0	6317.9	6289.3	6295.4	6279.2	6299.5	6309.7	6281.2	6313.8
27.5°	6595.2	6568.6	6593.1	6599.2	6564.5	6589.0	6564.5	6582.9	6593.1	6550.3	6582.9
30°	6892.7	6866.3	6888.7	6905.0	6864.2	6903.0	6882.6	6894.8	6896.8	6845.9	6876.4
32.5°	7216.9	7176.1	7233.2	7241.4	7196.5	7243.4	7216.9	7233.2	7243.4	7174.1	7221.0
35°	7612.4	7561.4	7626.7	7616.5	7577.7	7616.5	7592.1	7616.5	7641.0	7557.3	7608.4
37.5°	8038.5	7985.5	8054.8	8036.4	7999.7	8026.3	8012.0	8028.3	8067.1	7977.4	8032.4
40°	8507.4	8442.2	8535.9	8503.3	8468.7	8464.6	8472.8	8482.9	8533.9	8434.0	8466.6
42.5°	9008.9	8939.6	9080.3	9029.3	8980.3	8947.7	8974.3	8994.7	9043.6	8931.4	8990.6
45°	9581.8	9502.3	9685.7	9624.5	9547.2	9479.8	9522.7	9553.2	9624.5	9490.1	9559.4
47.5°	10213.8	10124.0	10319.8	10301.5	10175.1	10028.3	10126.1	10213.8	10266.8	10103.6	10158.7
50°	10831.5	10762.2	11019.1	11041.5	10886.5	10680.6	10817.2	10949.8	10964.0	10749.9	10776.4
52.5°	11410.5	11341.1	11714.2	11854.9	11716.3	11471.6	11616.3	11750.9	11642.9	11365.6	11373.8
55°	11873.3	11816.2	12291.2	12654.0	12701.0	12499.2	12584.7	12580.6	12225.9	11799.9	11814.2
57.5°	11985.3	11977.2	12576.5	13345.2	13834.4	13858.9	13689.7	13257.6	12493.0	11920.1	11883.4
60°	11475.7	11526.6	12350.3	13706.0	15010.8	15553.0	14821.2	13587.8	12189.2	11394.2	11300.4
62.5°	9950.8	10085.3	11078.2	13265.7	15960.8	17502.1	15728.4	13086.3	10941.6	9903.9	9842.8
65°	7131.3	7365.8	8462.5	11320.8	15875.2	19214.5	15597.9	11229.0	8544.1	7347.4	7259.8
67.5°	3235.4	3473.9	4405.6	7751.0	13799.8	18749.7	13767.2	7832.6	4625.7	3486.1	3435.2
70°	1172.2	1213.0	1512.7	3102.9	8819.3	14939.4	9196.5	3125.3	1608.5	1292.5	1276.2
72.5°	709.5	715.6	778.8	1111.1	3064.1	9070.0	3194.6	1147.8	795.1	705.4	717.6
75°	450.6	446.5	554.5	678.9	1086.6	3060.0	1139.6	678.9	552.5	503.6	507.6
77.5°	324.1	334.4	397.5	507.6	685.0	1037.7	672.8	485.2	397.5	326.2	332.3
80°	242.6	248.8	289.5	395.5	481.1	646.3	428.1	358.9	299.7	203.9	210.0
82.5°	175.3	175.3	189.6	287.4	293.6	348.6	232.4	252.8	197.7	144.7	144.7
85°	103.9	101.9	118.3	171.3	152.9	128.4	106.0	155.0	124.3	89.7	87.6
87.5°	36.7	38.7	36.7	48.9	40.8	34.6	32.6	42.8	34.6	30.5	28.5
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)