

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: P964550

Luminaire Tested: **NAV-SB3C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964550
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-SB3C-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 24120.3 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 149.1
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



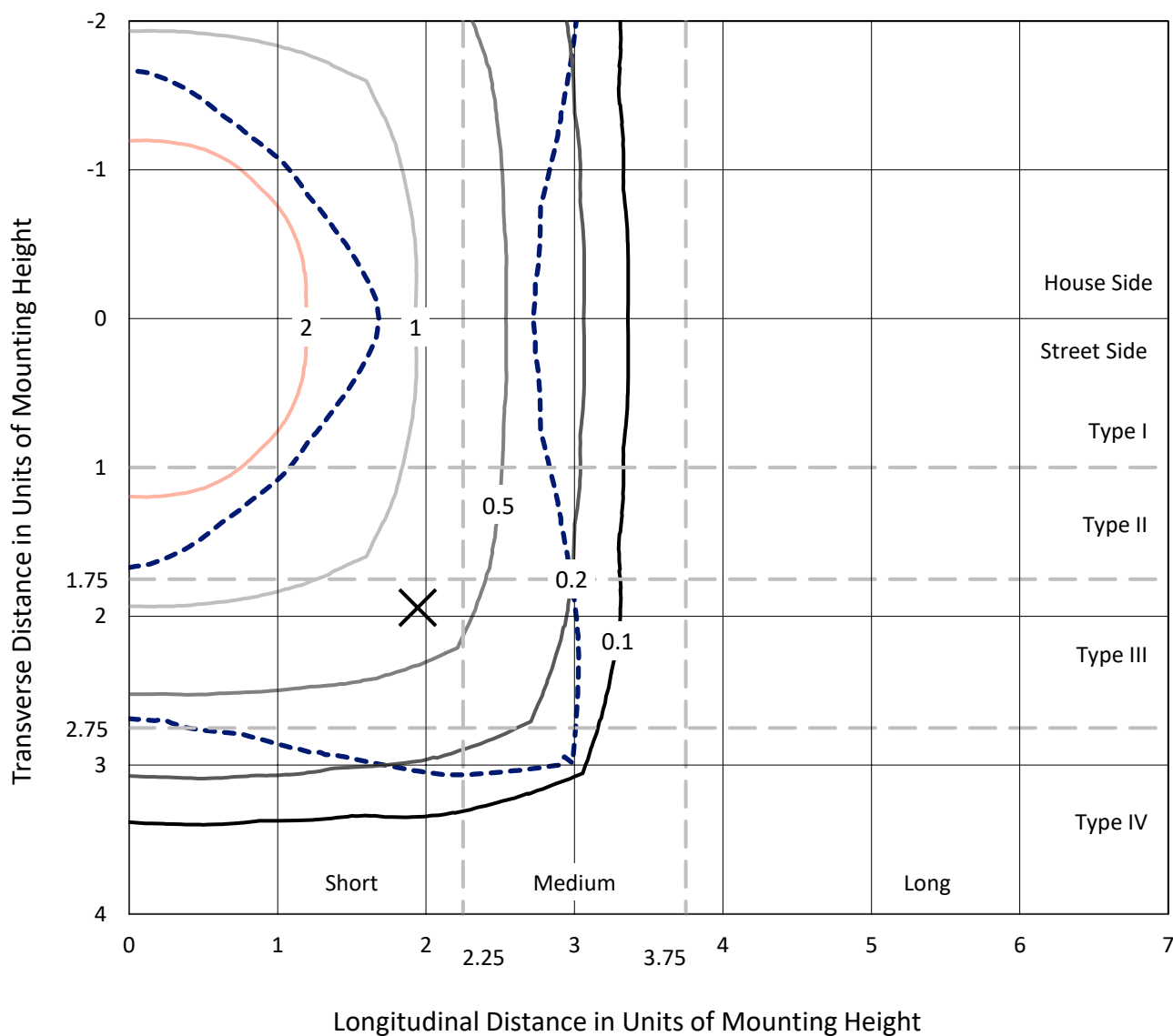
REPORT NUMBER: P964550

CATALOG NUMBER: NAV-SB3C-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

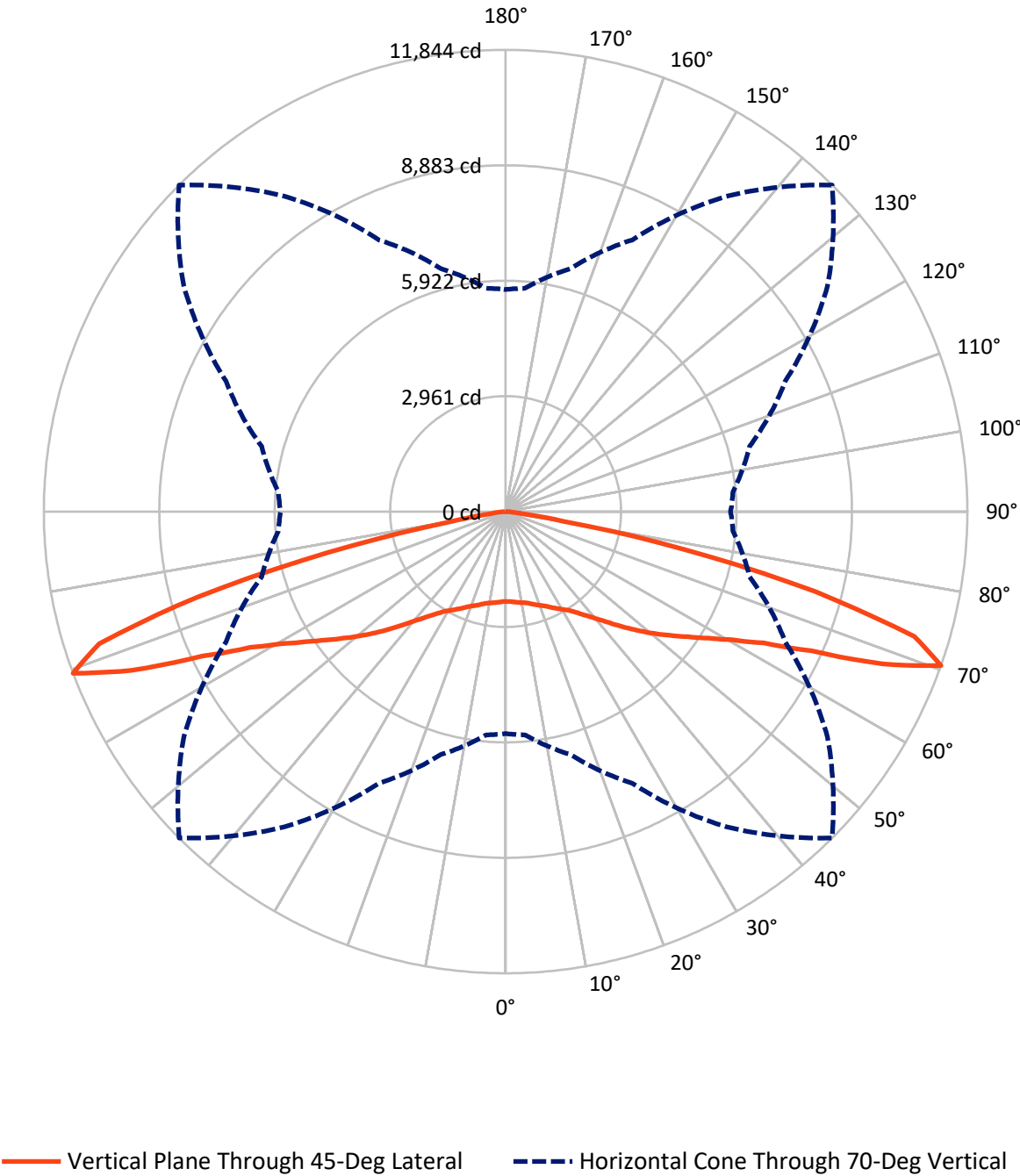


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type V - Short - N/A

REPORT NUMBER: P964550
CATALOG NUMBER: NAV-SB3C-735-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P964550

CATALOG NUMBER: NAV-SB3C-735-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12060.1	0.0	12060.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12060.1	0.0	12060.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	24120.3	0.0	24120.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	0.9
10°-20°	696.0	2.9
20°-30°	1243.9	5.2
30°-40°	2016.3	8.4
40°-50°	3284.3	13.6
50°-60°	5007.4	20.8
60°-70°	7449.4	30.9
70°-80°	4060.2	16.8
80°-90°	138.3	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°	24120.3	100.0
0°-180°	24120.3	100.0

Coefficient of Utilization



REPORT NUMBER: P964550

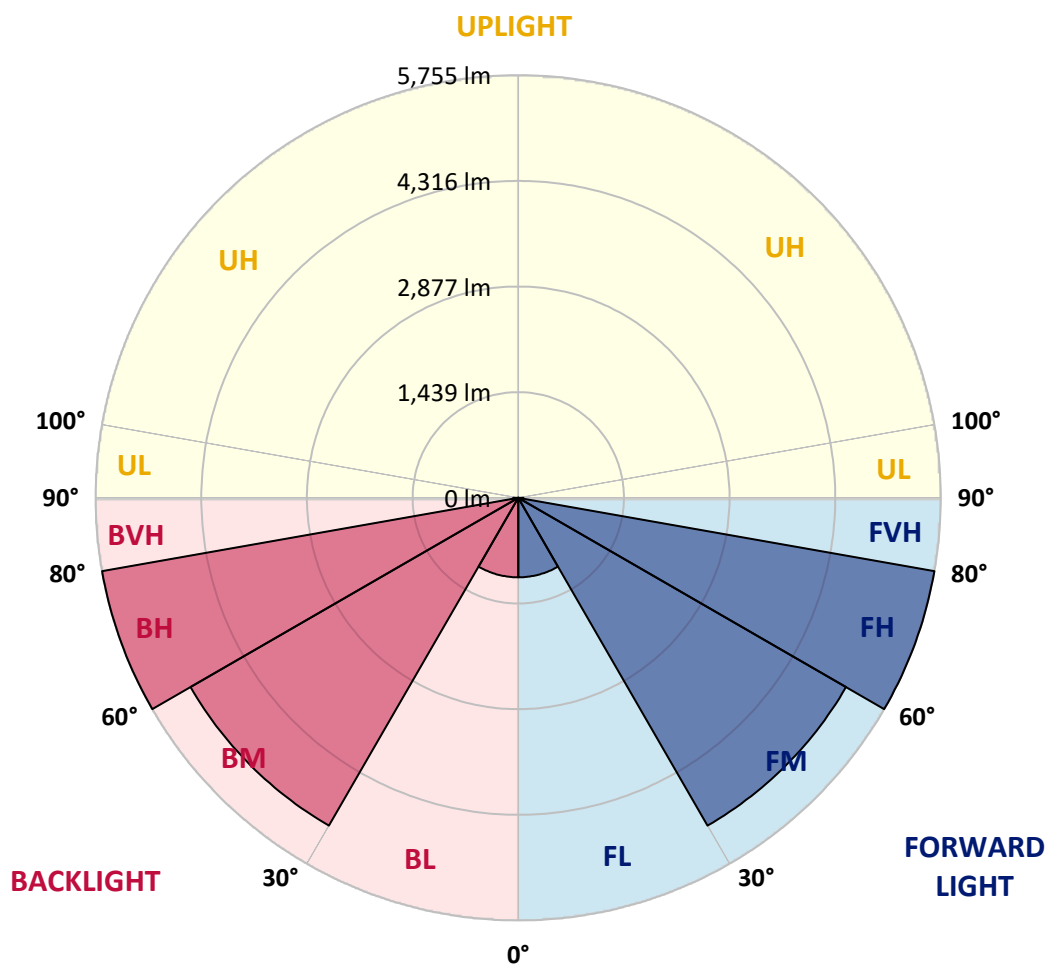
CATALOG NUMBER: NAV-SB3C-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1082.2	4.5			
FM	(30°-60°)	5154.0	21.4			
FH	(60°-80°)	5754.8	23.9			G3/7500
FVH	(80°-90°)	69.1	0.3			G1/100
BL	(0°-30°)	1082.2	4.5	B3/2500		
BM	(30°-60°)	5154.0	21.4	B4/8500		
BH	(60°-80°)	5754.8	23.9	B5		G3/7500
BVH	(80°-90°)	69.1	0.3			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: P964550

CATALOG NUMBER: NAV-SB3C-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2310.5	2310.5	2310.5	2310.5	2310.5	2310.5	2310.5	2310.5	2310.5	2310.5	2310.5
2.5°	2321.4	2323.8	2319.0	2316.5	2314.1	2310.5	2311.7	2317.7	2322.5	2321.4	2322.5
5°	2340.8	2343.1	2339.6	2338.3	2333.5	2332.3	2332.3	2338.3	2341.9	2339.6	2340.8
7.5°	2362.5	2366.2	2360.2	2358.9	2356.5	2354.1	2352.9	2358.9	2362.5	2362.5	2362.5
10°	2383.1	2386.8	2381.9	2378.3	2375.8	2375.8	2373.5	2378.3	2384.4	2383.1	2383.1
12.5°	2405.0	2407.3	2402.5	2400.0	2400.0	2403.7	2400.0	2402.5	2407.3	2405.0	2403.7
15°	2431.6	2432.7	2431.6	2435.2	2441.2	2453.3	2442.5	2440.0	2442.5	2436.4	2436.4
17.5°	2467.9	2470.4	2475.2	2483.7	2492.1	2513.9	2494.5	2488.5	2488.5	2476.4	2476.4
20°	2512.7	2516.4	2523.5	2538.1	2549.1	2569.6	2550.2	2541.8	2538.1	2522.4	2522.4
22.5°	2559.9	2566.0	2576.8	2596.2	2615.6	2635.0	2615.6	2601.1	2590.2	2569.6	2568.4
25°	2614.5	2621.6	2638.7	2670.1	2696.8	2724.7	2701.6	2672.6	2650.8	2621.6	2620.5
27.5°	2692.0	2700.4	2721.0	2759.7	2793.6	2817.8	2796.1	2758.5	2728.2	2693.1	2692.0
30°	2800.9	2809.4	2833.6	2874.8	2897.8	2913.6	2899.0	2869.9	2833.6	2793.6	2793.6
32.5°	2941.3	2952.3	2979.0	3017.7	3022.5	3025.0	3020.1	3005.5	2979.0	2930.5	2931.7
35°	3119.4	3131.5	3161.8	3193.3	3188.4	3193.3	3186.0	3181.2	3161.8	3106.1	3106.1
37.5°	3337.4	3351.9	3383.3	3407.6	3395.5	3389.5	3390.6	3391.8	3381.0	3319.2	3319.2
40°	3590.5	3609.8	3632.8	3658.2	3637.6	3619.5	3631.6	3641.3	3631.6	3568.6	3568.6
42.5°	3850.8	3878.6	3902.9	3939.2	3922.3	3899.2	3916.2	3927.1	3906.5	3838.7	3843.5
45°	4140.2	4166.8	4198.3	4252.8	4240.7	4216.5	4240.7	4243.1	4208.0	4128.1	4136.6
47.5°	4439.3	4467.2	4514.4	4587.1	4582.2	4555.5	4587.1	4570.1	4525.3	4429.6	4423.6
50°	4722.7	4761.4	4834.1	4935.8	4945.5	4912.8	4955.2	4922.5	4847.4	4727.5	4725.0
52.5°	4989.1	5030.3	5145.3	5283.4	5318.4	5276.1	5333.0	5276.1	5163.4	5009.7	4995.1
55°	5268.8	5314.8	5451.7	5632.1	5702.3	5670.8	5724.1	5638.1	5478.3	5291.8	5266.3
57.5°	5598.1	5626.0	5789.5	6003.8	6122.5	6129.8	6154.0	6008.7	5814.9	5603.1	5574.0
60°	5955.5	5994.2	6172.1	6428.9	6616.6	6677.2	6651.7	6436.2	6210.9	5967.5	5928.8
62.5°	6413.1	6455.6	6668.6	6976.3	7272.9	7423.0	7323.7	7011.3	6732.8	6441.0	6390.2
65°	6792.2	6839.4	7224.5	7773.0	8313.2	8614.6	8365.2	7790.0	7288.7	6876.9	6809.1
67.5°	6517.3	6575.4	7179.7	8187.2	9530.1	10429.8	9576.2	8310.7	7328.6	6770.3	6686.8
70°	5696.2	5750.8	6455.6	7687.1	9872.8	11844.2	10078.6	7913.5	6478.5	5853.7	5770.1
72.5°	3781.7	3957.3	4670.6	6148.0	8815.6	10960.2	8902.8	6023.2	4332.8	3773.3	3650.9
75°	1254.5	1395.0	1881.8	3187.2	5904.5	8196.8	5621.2	2820.3	1490.7	1072.9	1014.7
77.5°	316.0	364.5	502.6	911.8	2355.2	4666.9	2120.3	744.8	405.7	283.3	253.1
80°	153.8	169.5	242.2	303.9	589.7	1483.4	553.4	285.8	191.4	147.7	135.6
82.5°	84.8	86.0	136.8	172.0	219.1	383.9	227.7	167.1	110.2	89.6	89.6
85°	52.1	50.8	72.7	92.0	92.0	136.8	109.0	92.0	62.9	55.7	58.1
87.5°	20.6	20.6	26.6	29.1	25.4	35.2	27.9	30.2	24.2	23.0	24.2
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)