

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: P962381

Luminaire Tested: **NAV-SB2C-727-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962381  
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-SB2C-727-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

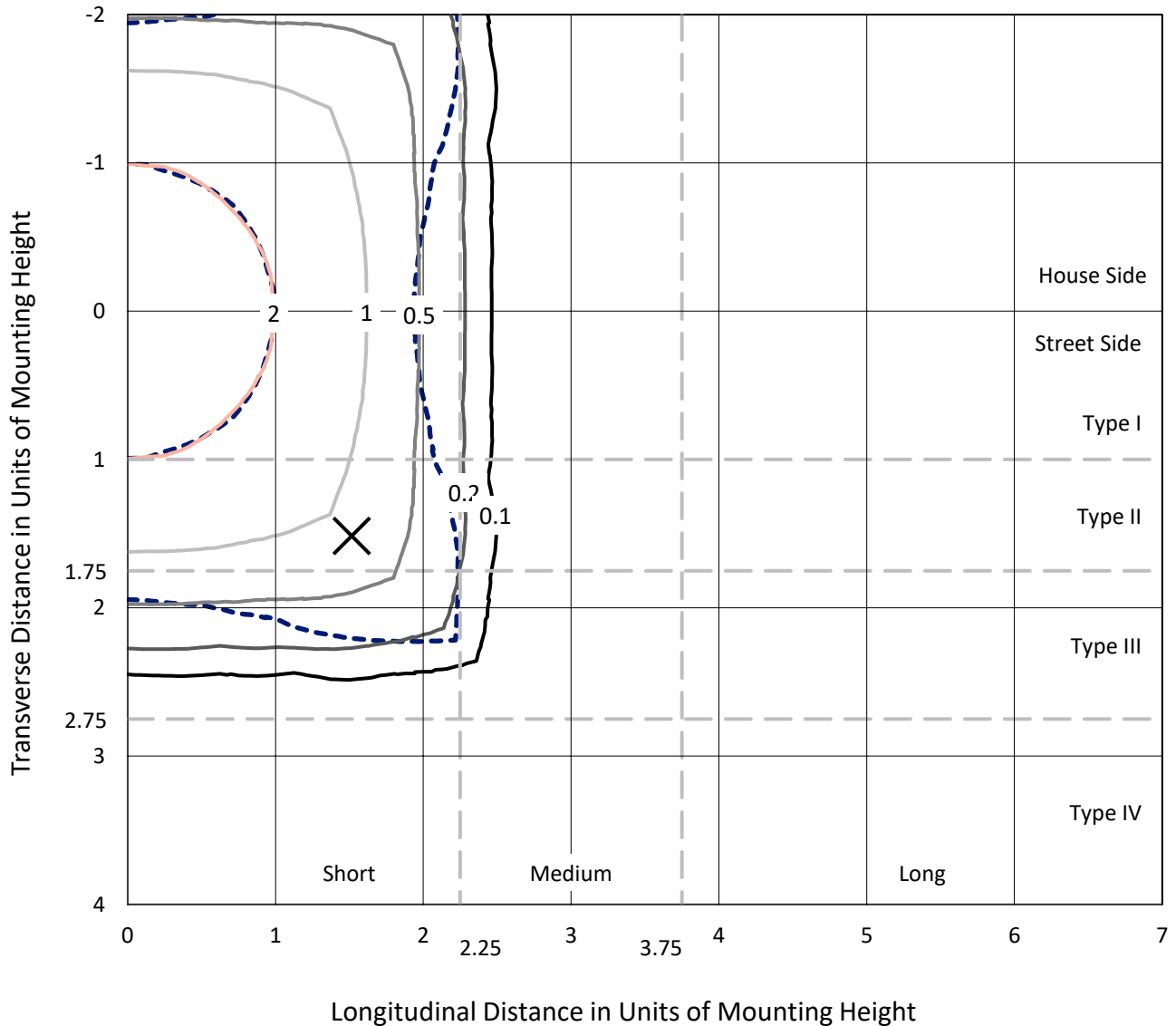
Lumens per Lamp: N/A  
Luminaire Lumens: 14920.9 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P962381  
 CATALOG NUMBER: NAV-SB2C-727-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

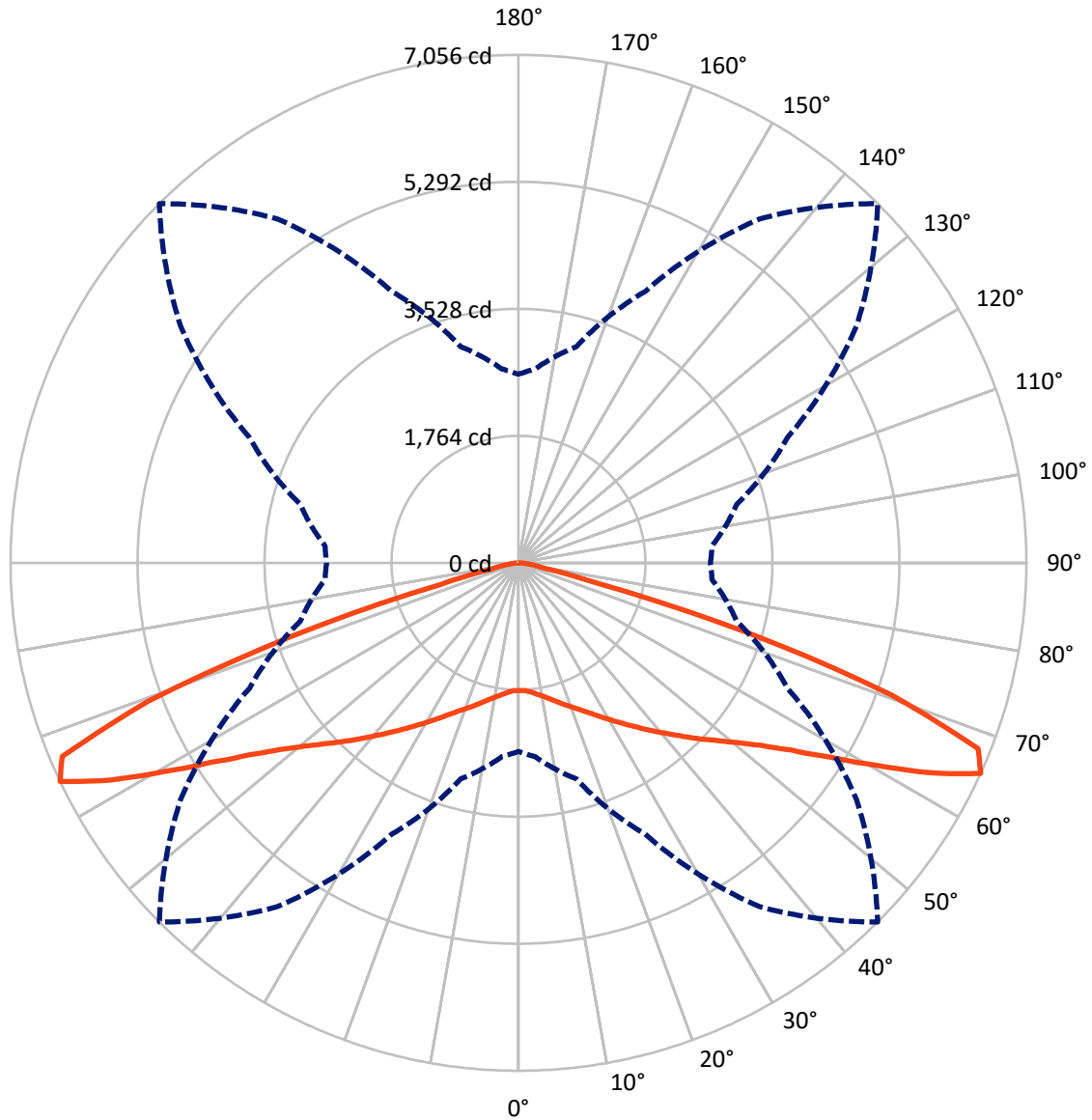
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P962381  
CATALOG NUMBER: NAV-SB2C-727-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P962381  
 CATALOG NUMBER: NAV-SB2C-727-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7460.5	0.0	7460.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7460.5	0.0	7460.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14920.9	0.0	14920.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	1.2
10°-20°	571.8	3.8
20°-30°	1079.7	7.2
30°-40°	1768.0	11.8
40°-50°	2741.3	18.4
50°-60°	4049.5	27.1
60°-70°	3854.7	25.8
70°-80°	622.0	4.2
80°-90°	58.6	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°	14920.9	100.0
0°-180°	14920.9	100.0

**Coefficient of Utilization**



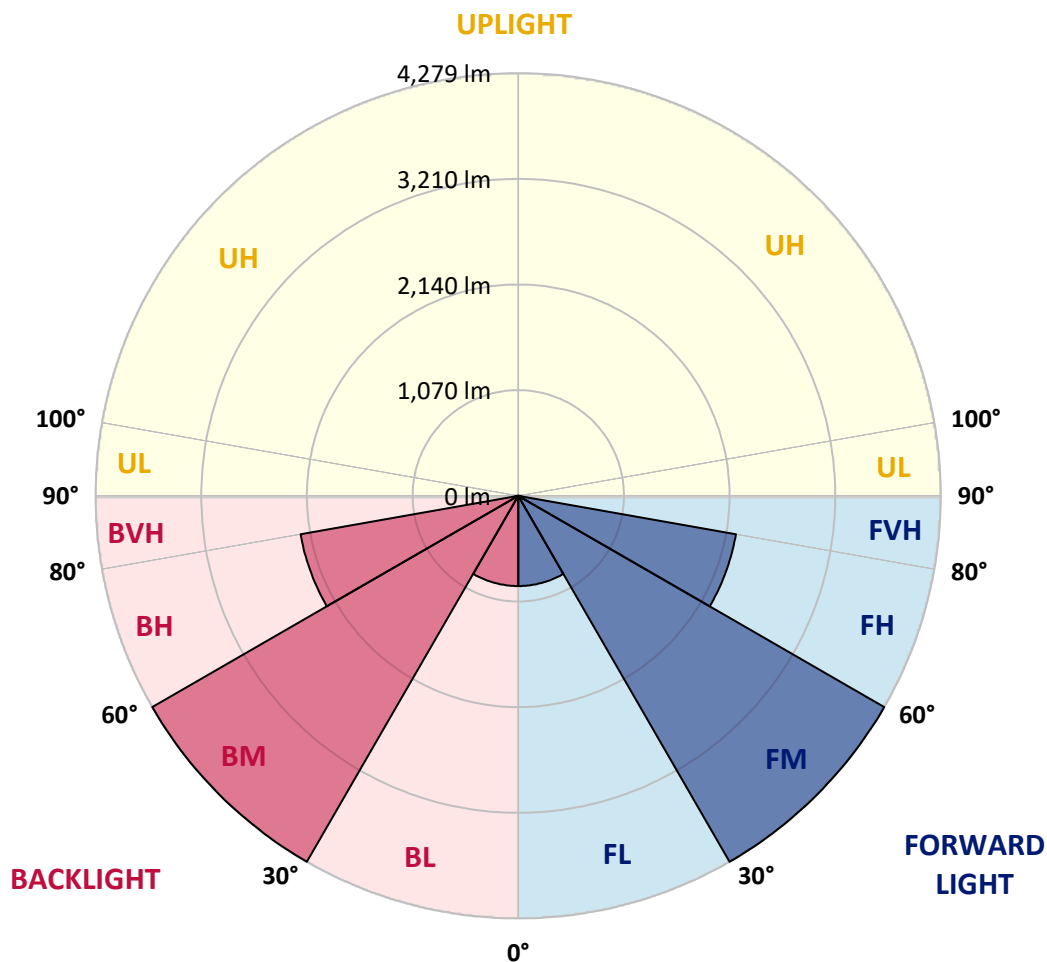
REPORT NUMBER: P962381  
 CATALOG NUMBER: NAV-SB2C-727-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.4	6.1			
FM (30°-60°)	4279.4	28.7			
FH (60°-80°)	2238.4	15.0			G2/5000
FVH (80°-90°)	29.3	0.2			G1/100
BL (0°-30°)	913.4	6.1	B2/1000		
BM (30°-60°)	4279.4	28.7	B3/5000		
BH (60°-80°)	2238.4	15.0	B3/2500		G2/5000
BVH (80°-90°)	29.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



REPORT NUMBER: P962381  
 CATALOG NUMBER: NAV-SB2C-727-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7
2.5°	1787.7	1781.8	1786.3	1782.5	1779.5	1776.5	1778.0	1783.2	1785.4	1786.3	1786.3
5°	1811.7	1806.5	1808.7	1808.7	1803.5	1802.0	1802.7	1806.5	1811.0	1811.0	1811.0
7.5°	1850.6	1845.4	1850.6	1847.6	1843.2	1841.6	1840.9	1843.9	1850.6	1850.6	1848.4
10°	1897.8	1891.7	1894.8	1893.3	1888.0	1885.8	1885.1	1889.5	1895.5	1894.8	1893.3
12.5°	1949.4	1942.7	1946.5	1942.0	1940.4	1938.2	1938.2	1937.5	1941.1	1938.2	1939.7
15°	2007.1	2002.5	2004.1	2001.1	2003.4	2001.8	1995.9	1992.8	1994.3	1989.8	1990.5
17.5°	2075.2	2064.7	2070.0	2068.4	2068.4	2071.4	2061.7	2058.0	2061.0	2056.5	2060.2
20°	2153.8	2143.3	2145.5	2142.6	2138.9	2141.8	2129.8	2132.8	2135.1	2132.1	2138.9
22.5°	2239.9	2226.4	2225.7	2227.1	2218.9	2219.6	2211.4	2218.9	2223.4	2215.2	2223.4
25°	2328.2	2314.0	2323.8	2320.0	2309.5	2311.8	2305.7	2313.2	2317.0	2306.6	2318.4
27.5°	2421.8	2412.0	2421.0	2423.3	2410.6	2419.5	2410.6	2417.4	2421.0	2405.4	2417.4
30°	2531.1	2521.4	2529.6	2535.6	2520.6	2534.8	2527.3	2531.9	2532.6	2513.9	2525.1
32.5°	2650.1	2635.2	2656.1	2659.2	2642.7	2659.9	2650.1	2656.1	2659.9	2634.5	2651.7
35°	2795.4	2776.6	2800.6	2796.8	2782.7	2796.8	2787.9	2796.8	2805.8	2775.2	2793.8
37.5°	2951.8	2932.3	2957.8	2951.1	2937.6	2947.4	2942.1	2948.1	2962.4	2929.3	2949.5
40°	3124.0	3100.0	3134.4	3122.6	3109.7	3108.3	3111.3	3115.1	3133.7	3097.0	3109.0
42.5°	3308.2	3282.8	3334.4	3315.7	3297.7	3285.7	3295.5	3303.0	3320.9	3279.7	3301.4
45°	3518.5	3489.3	3556.7	3534.3	3505.8	3481.1	3496.8	3508.1	3534.3	3484.9	3510.3
47.5°	3750.6	3717.7	3789.5	3782.8	3736.4	3682.5	3718.4	3750.6	3770.1	3710.2	3730.4
50°	3977.4	3952.0	4046.3	4054.6	3997.7	3922.1	3972.2	4020.9	4026.1	3947.5	3957.2
52.5°	4190.1	4164.6	4301.6	4353.3	4302.3	4212.5	4265.6	4315.0	4275.4	4173.6	4176.6
55°	4360.0	4339.0	4513.5	4646.7	4664.0	4589.8	4621.3	4619.8	4489.5	4333.1	4338.3
57.5°	4401.1	4398.2	4618.2	4900.5	5080.2	5089.1	5027.0	4868.3	4587.6	4377.3	4363.7
60°	4214.0	4232.7	4535.2	5033.1	5512.1	5711.3	5442.5	4989.6	4476.1	4184.0	4149.6
62.5°	3654.0	3703.4	4068.0	4871.3	5861.0	6427.0	5775.7	4805.4	4017.9	3636.8	3614.4
65°	2618.7	2704.8	3107.6	4157.1	5829.6	7055.8	5727.7	4123.5	3137.5	2698.0	2665.8
67.5°	1188.1	1275.6	1617.8	2846.3	5067.4	6885.1	5055.5	2876.3	1698.6	1280.1	1261.5
70°	430.5	445.5	555.4	1139.4	3238.6	5485.9	3377.1	1147.7	590.7	474.7	468.6
72.5°	260.6	262.8	286.0	408.0	1125.1	3330.6	1173.1	421.5	291.9	259.0	263.5
75°	165.4	164.0	203.7	249.3	399.0	1123.7	418.5	249.3	202.8	184.9	186.4
77.5°	119.0	122.8	146.0	186.4	251.5	381.1	247.0	178.1	146.0	119.8	122.0
80°	89.1	91.3	106.3	145.2	176.7	237.3	157.2	131.7	110.1	74.8	77.1
82.5°	64.4	64.4	69.6	105.6	107.8	128.0	85.4	92.9	72.6	53.2	53.2
85°	38.1	37.4	43.5	62.9	56.2	47.2	38.9	56.9	45.7	32.9	32.2
87.5°	13.4	14.2	13.4	17.9	15.0	12.7	12.0	15.7	12.7	11.3	10.5
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)