

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: P964493

Luminaire Tested: **NAV-SB3C-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21998.5 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

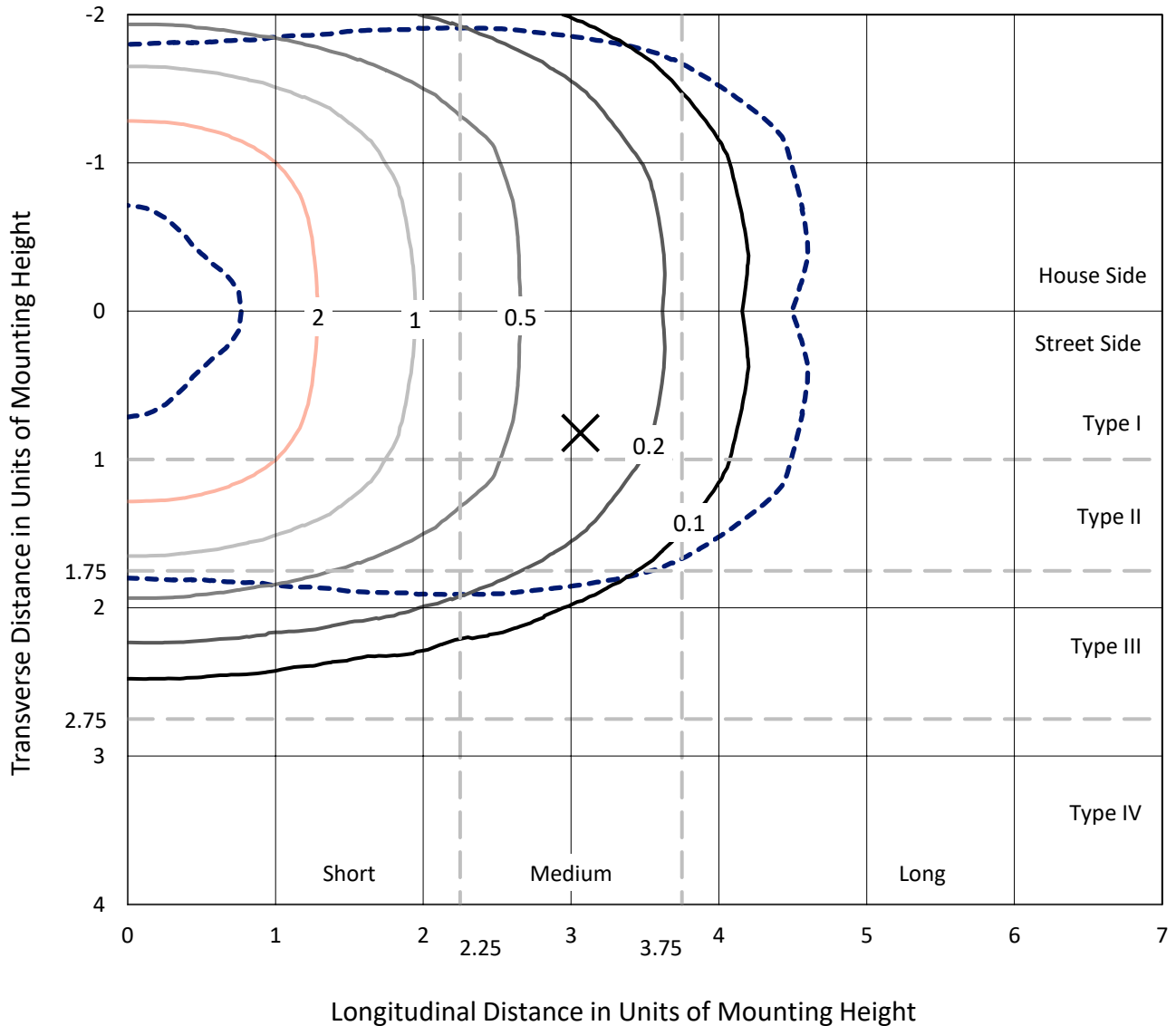
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964493
 CATALOG NUMBER: NAV-SB3C-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

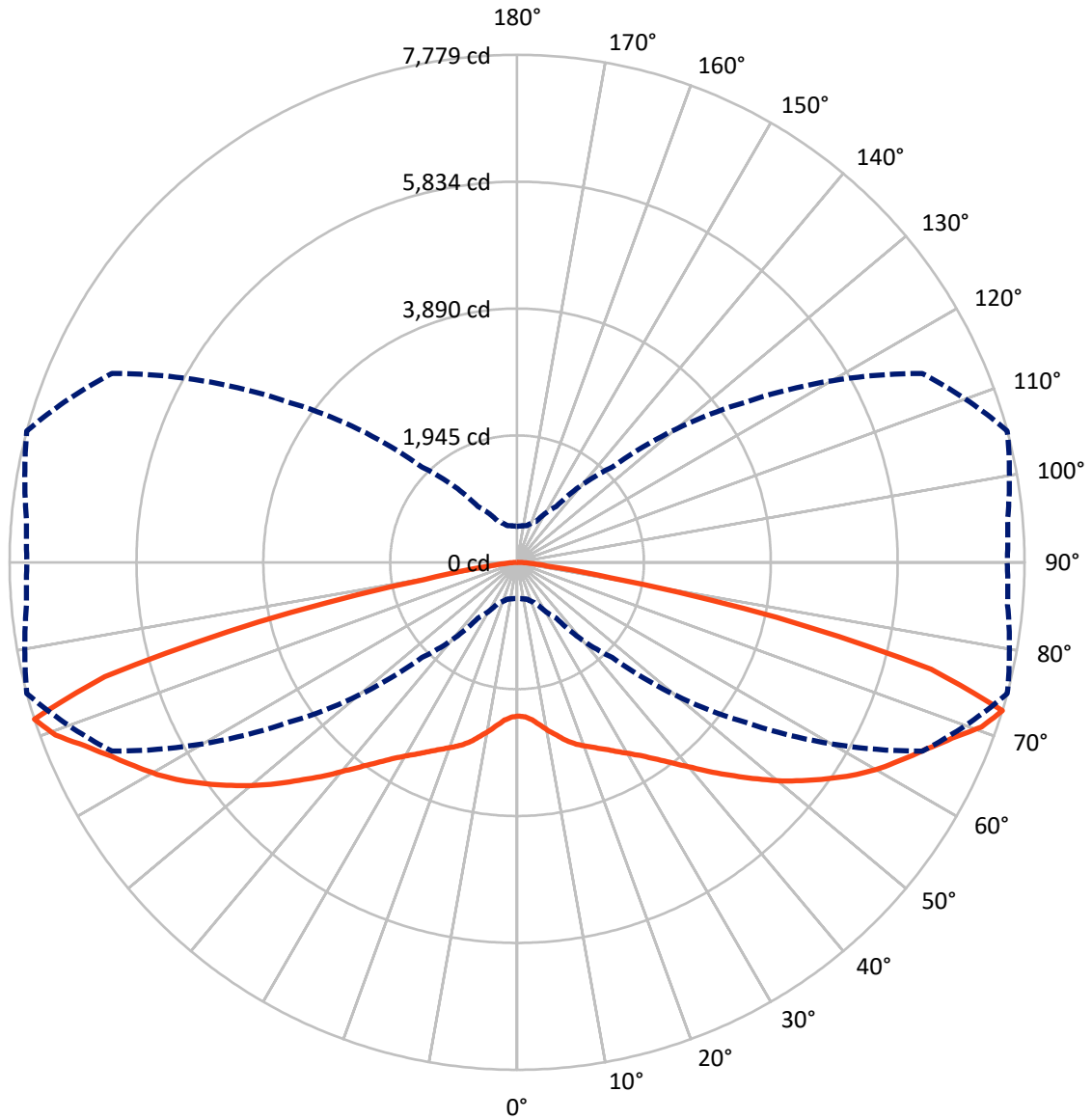
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P964493
CATALOG NUMBER: NAV-SB3C-727-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P964493
 CATALOG NUMBER: NAV-SB3C-727-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10999.3	0.0	10999.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10999.3	0.0	10999.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	21998.5	0.0	21998.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.0
10°-20°	761.3	3.5
20°-30°	1471.1	6.7
30°-40°	2484.1	11.3
40°-50°	3939.5	17.9
50°-60°	5274.5	24.0
60°-70°	5019.6	22.8
70°-80°	2619.3	11.9
80°-90°	198.3	0.9
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°	21998.5	100.0
0°-180°	21998.5	100.0

Coefficient of Utilization

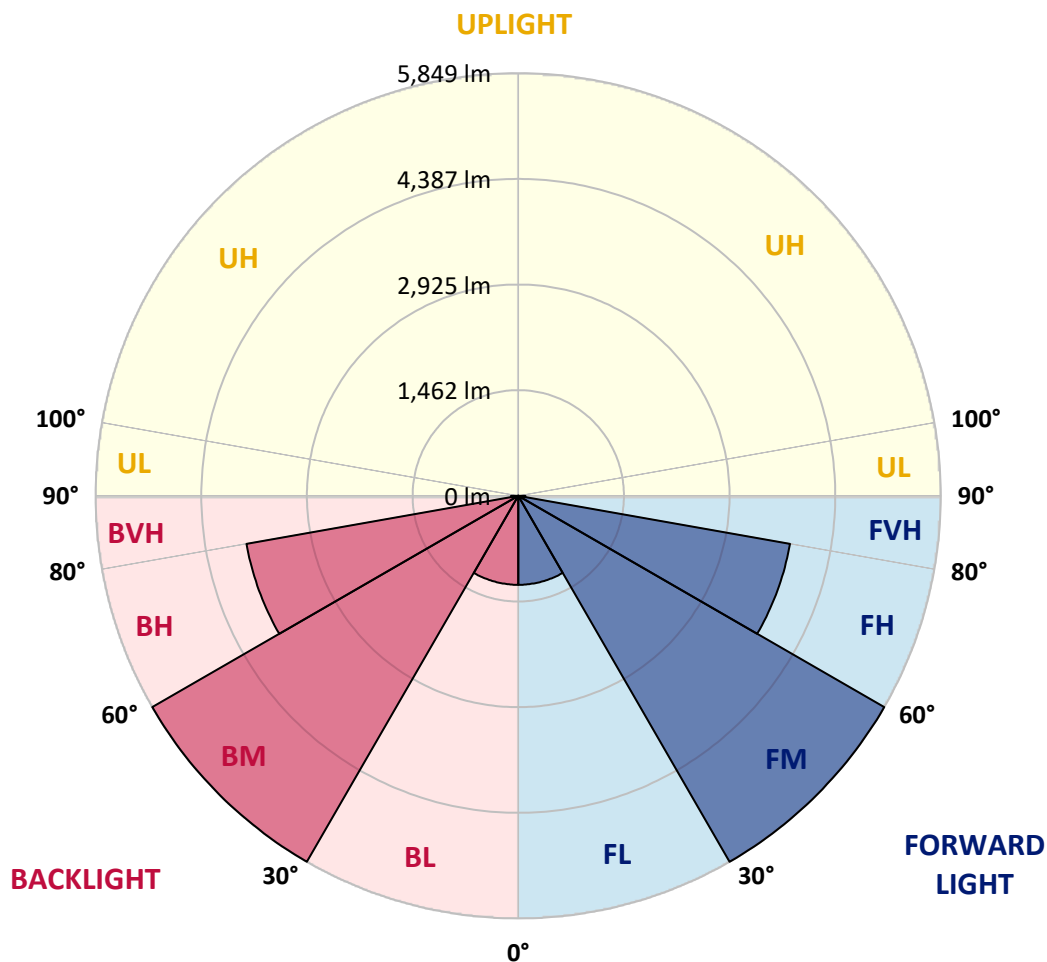


REPORT NUMBER: P964493
 CATALOG NUMBER: NAV-SB3C-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.6	5.6			
FM (30°-60°)	5849.0	26.6			
FH (60°-80°)	3819.5	17.4			G2/5000
FVH (80°-90°)	99.1	0.5			G1/100
BL (0°-30°)	1231.6	5.6	B3/2500		
BM (30°-60°)	5849.0	26.6	B4/8500		
BH (60°-80°)	3819.5	17.4	B4/5000		G4/5000
BVH (80°-90°)	99.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Medium



REPORT NUMBER: P964493
 CATALOG NUMBER: NAV-SB3C-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	2356.5	2354.2	2356.5	2358.7	2357.6	2357.6	2363.1	2366.5	2373.3	2372.2	2371.0
5°	2340.7	2339.6	2348.6	2358.7	2366.5	2380.0	2396.9	2409.3	2424.9	2428.3	2428.3
7.5°	2332.9	2329.5	2345.2	2363.1	2387.8	2421.6	2454.2	2487.9	2514.8	2523.8	2526.0
10°	2338.4	2339.6	2360.9	2394.6	2434.0	2481.1	2527.1	2584.4	2622.7	2631.6	2640.6
12.5°	2364.3	2362.0	2398.0	2451.9	2505.8	2565.4	2619.3	2682.1	2723.7	2745.1	2754.1
15°	2411.5	2407.0	2457.5	2537.3	2615.9	2685.5	2729.4	2788.8	2837.2	2864.2	2874.2
17.5°	2467.6	2469.8	2536.2	2639.5	2742.8	2821.4	2863.0	2893.4	2930.4	2953.9	2965.2
20°	2566.5	2571.0	2645.1	2767.5	2885.5	2975.3	3009.0	2997.8	3007.9	3025.9	3039.3
22.5°	2699.0	2701.3	2784.4	2916.9	3040.5	3139.3	3161.7	3115.7	3087.6	3100.0	3108.9
25°	2852.9	2867.4	2950.6	3086.5	3213.5	3307.8	3317.9	3248.2	3178.6	3182.0	3187.5
27.5°	3040.5	3053.9	3138.1	3272.9	3402.1	3484.1	3483.0	3389.8	3287.6	3261.8	3269.5
30°	3243.7	3258.4	3344.9	3484.1	3604.3	3676.2	3660.5	3549.3	3403.2	3354.9	3360.6
32.5°	3485.2	3494.2	3581.9	3721.1	3832.3	3889.6	3857.0	3720.0	3538.0	3483.0	3496.5
35°	3777.2	3790.8	3855.8	3987.2	4085.0	4132.2	4077.1	3915.4	3711.0	3649.2	3658.2
37.5°	4110.9	4101.8	4176.0	4292.8	4373.7	4402.9	4327.7	4135.6	3908.6	3835.7	3849.2
40°	4459.1	4454.5	4535.4	4647.8	4691.5	4709.5	4598.4	4388.2	4136.7	4058.1	4083.9
42.5°	4774.7	4771.3	4880.2	5004.9	5057.7	5037.5	4897.0	4656.7	4400.6	4310.7	4333.3
45°	5027.3	5022.9	5156.6	5331.7	5435.1	5401.3	5212.7	4953.2	4668.0	4574.7	4596.1
47.5°	5221.7	5223.9	5367.7	5584.5	5765.3	5777.6	5535.0	5255.4	4962.2	4856.7	4888.1
50°	5362.1	5368.8	5522.7	5763.1	6010.2	6119.1	5864.1	5565.3	5266.7	5147.5	5183.5
52.5°	5396.9	5409.2	5594.6	5876.5	6167.4	6375.2	6198.9	5863.0	5555.3	5441.8	5471.0
55°	5211.6	5236.3	5471.0	5867.5	6264.0	6543.7	6493.2	6165.2	5846.2	5729.3	5761.9
57.5°	4785.9	4820.7	5094.8	5612.6	6242.7	6659.3	6721.1	6454.9	6137.1	6024.7	6050.6
60°	4189.5	4231.0	4493.9	5058.8	5941.6	6702.1	6881.7	6736.8	6404.4	6295.4	6319.0
62.5°	3289.8	3343.8	3658.2	4320.9	5305.9	6503.2	7018.8	6991.8	6644.8	6508.9	6524.5
65°	2110.5	2167.8	2499.1	3281.9	4457.9	5894.5	7061.4	7240.1	6898.6	6708.7	6732.4
67.5°	1272.5	1298.4	1462.4	1989.1	3258.4	4976.8	6699.8	7515.2	7195.1	6959.2	6977.2
70°	814.3	828.9	926.6	1168.1	1842.0	3631.3	5803.4	7566.9	7554.6	7216.4	7214.2
72.5°	552.6	557.1	582.9	691.9	1042.3	2063.3	4280.5	6850.3	7779.1	7547.8	7511.8
75°	404.4	429.1	470.6	489.7	591.9	1031.0	2453.0	4812.9	6556.0	6657.1	6412.3
77.5°	301.0	302.2	359.5	381.9	422.3	549.2	1037.8	2686.6	4070.4	4273.7	3812.1
80°	254.9	241.5	240.4	307.7	317.9	342.6	463.9	927.7	1457.9	884.0	668.3
82.5°	212.3	197.7	178.6	240.4	216.8	210.0	201.0	377.4	463.9	228.0	194.3
85°	148.2	141.6	134.8	157.2	123.5	105.6	96.6	176.3	195.5	96.6	85.4
87.5°	64.1	66.3	67.3	69.6	51.7	37.1	37.1	49.4	49.4	38.2	28.1
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)