

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: P884592

Luminaire Tested: **NAV-SB5C-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34836 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

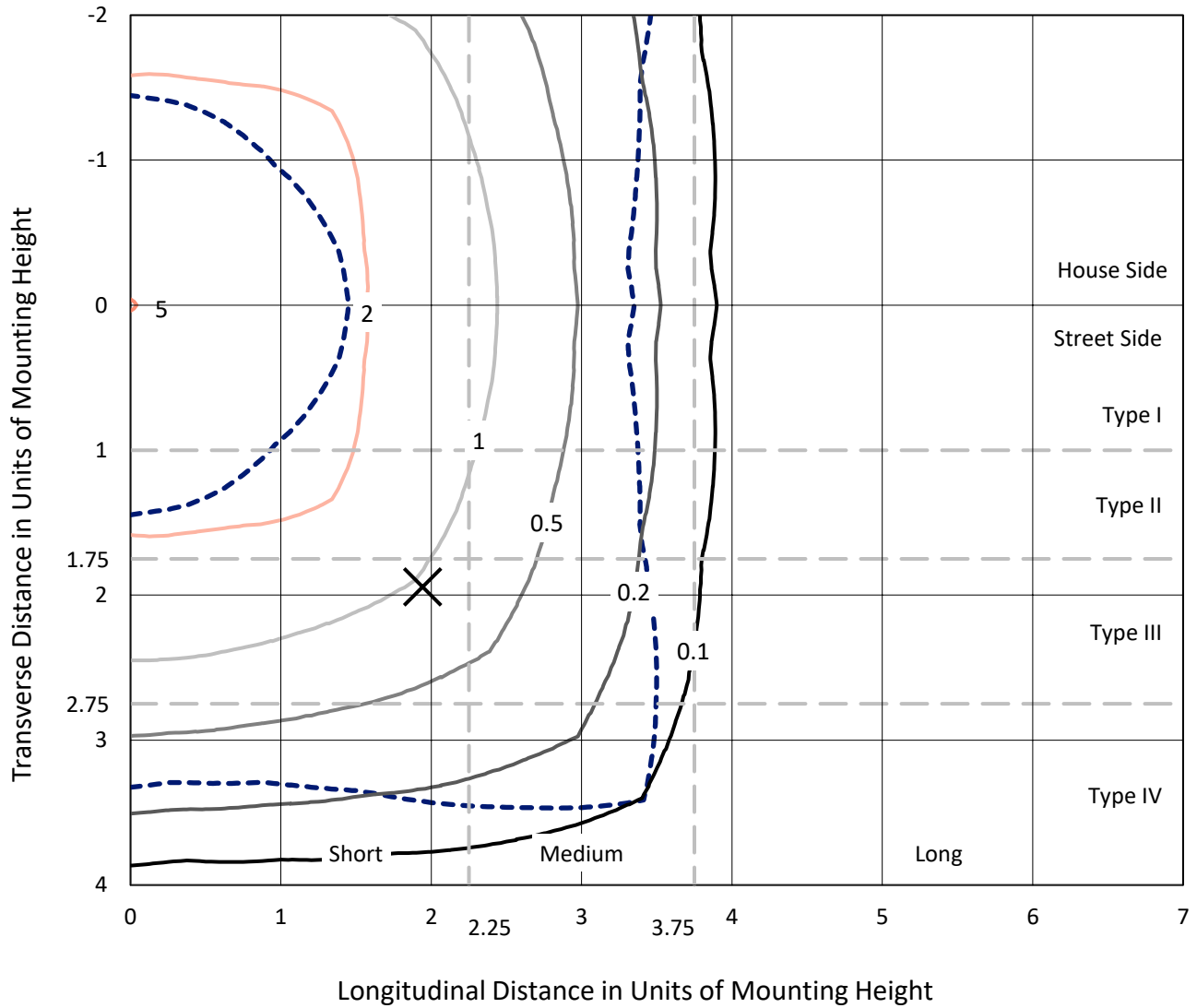
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

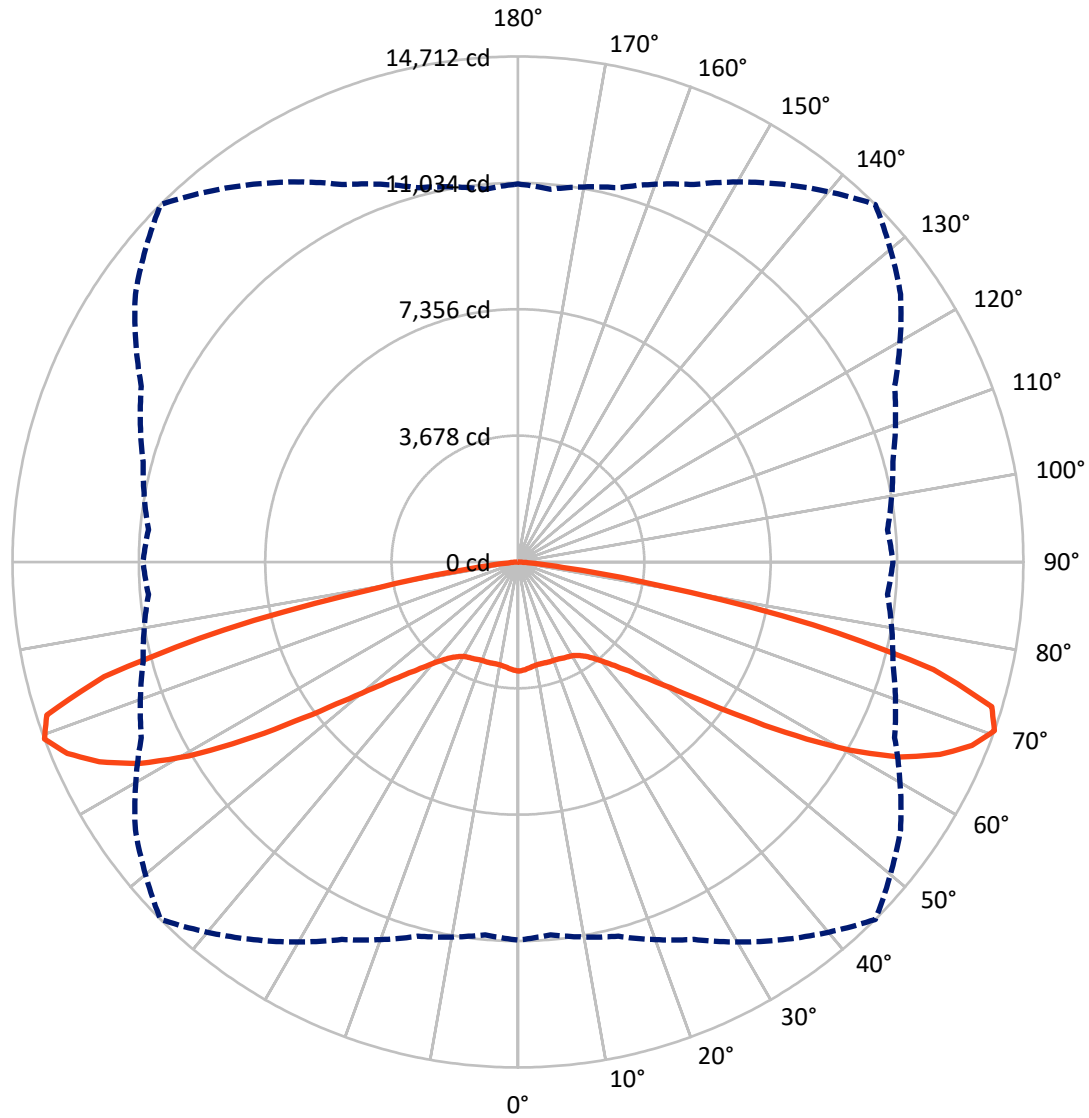
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17418.0	0.0	17418.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17418.0	0.0	17418.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34836.0	0.0	34836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	0.8
10°-20°	868.0	2.5
20°-30°	1444.4	4.1
30°-40°	2184.4	6.3
40°-50°	3630.0	10.4
50°-60°	6849.6	19.7
60°-70°	11565.9	33.2
70°-80°	7600.0	21.8
80°-90°	398.2	1.1
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°	34836.0	100.0
0°-180°	34836.0	100.0



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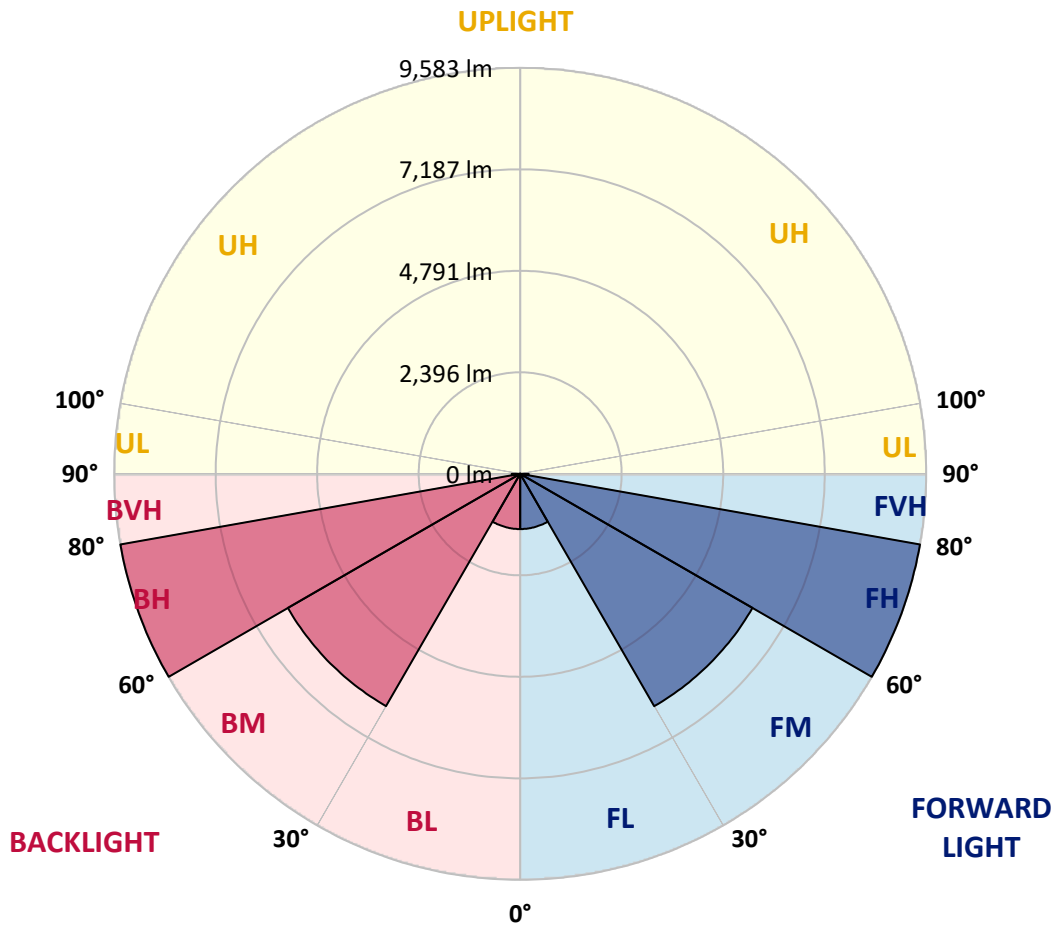
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.0	3.7			
FM (30°-60°)	6332.0	18.2			
FH (60°-80°)	9582.9	27.5			G4/12000
FVH (80°-90°)	199.1	0.6			G2/225
BL (0°-30°)	1304.0	3.7	B3/2500		
BM (30°-60°)	6332.0	18.2	B4/8500		
BH (60°-80°)	9582.9	27.5	B5		G4/12000
BVH (80°-90°)	199.1	0.6			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7
2.5°	3157.8	3166.9	3163.3	3156.0	3156.0	3150.6	3156.0	3159.6	3165.1	3168.7	3166.9
5°	3116.2	3123.4	3121.6	3116.2	3118.0	3112.6	3116.2	3121.6	3125.2	3127.0	3127.0
7.5°	3080.0	3087.2	3083.6	3074.5	3074.5	3069.1	3070.9	3076.3	3081.8	3083.6	3083.6
10°	3070.9	3078.2	3067.3	3052.8	3047.4	3040.1	3041.9	3047.4	3058.2	3063.7	3063.7
12.5°	3074.5	3080.0	3069.1	3047.4	3041.9	3034.7	3034.7	3040.1	3054.6	3061.9	3063.7
15°	3085.4	3090.8	3074.5	3051.0	3045.6	3040.1	3038.3	3045.6	3061.9	3074.5	3076.3
17.5°	3105.3	3110.7	3085.4	3052.8	3045.6	3047.4	3045.6	3051.0	3076.3	3099.9	3099.9
20°	3123.4	3127.0	3092.6	3052.8	3045.6	3047.4	3045.6	3056.4	3089.0	3121.6	3123.4
22.5°	3128.9	3132.5	3099.9	3065.5	3060.1	3061.9	3060.1	3070.9	3101.7	3134.3	3134.3
25°	3130.7	3136.1	3110.7	3083.6	3092.6	3096.3	3092.6	3094.5	3118.0	3147.0	3145.2
27.5°	3157.8	3165.1	3141.5	3118.0	3123.4	3121.6	3127.0	3132.5	3150.6	3179.6	3172.3
30°	3214.0	3219.4	3199.5	3175.9	3172.3	3159.6	3175.9	3194.0	3214.0	3239.3	3233.9
32.5°	3306.3	3317.2	3291.8	3266.5	3250.2	3242.9	3255.6	3286.4	3313.5	3340.7	3329.8
35°	3460.2	3467.5	3443.9	3396.8	3367.9	3367.9	3378.7	3418.6	3462.0	3496.4	3483.7
37.5°	3677.5	3686.5	3644.9	3588.8	3545.3	3545.3	3559.8	3601.4	3666.6	3715.5	3697.4
40°	3941.9	3954.5	3902.0	3844.1	3802.4	3795.2	3813.3	3860.4	3921.9	3983.5	3963.6
42.5°	4260.5	4275.0	4206.2	4155.5	4122.9	4122.9	4132.0	4175.4	4231.6	4307.6	4302.2
45°	4667.9	4693.3	4599.1	4548.4	4517.6	4524.9	4530.3	4568.3	4619.0	4706.0	4702.3
47.5°	5153.2	5178.5	5079.0	5026.4	5021.0	5055.4	5033.7	5060.9	5088.0	5187.6	5158.6
50°	5703.6	5747.1	5678.3	5674.7	5685.5	5748.9	5698.2	5712.7	5681.9	5745.3	5707.3
52.5°	6377.2	6440.6	6427.9	6449.6	6571.0	6701.3	6585.4	6534.7	6418.9	6438.8	6371.8
55°	7193.8	7289.8	7307.9	7438.3	7713.5	7979.7	7733.4	7528.8	7282.6	7237.3	7166.7
57.5°	8122.7	8198.8	8285.7	8551.8	9066.1	9538.7	9066.1	8613.4	8225.9	8133.6	8068.4
60°	9122.2	9216.4	9299.7	9692.6	10456.7	11121.2	10442.2	9723.4	9210.9	9086.0	8977.4
62.5°	10195.9	10317.3	10375.2	10811.6	11702.4	12495.5	11715.1	10844.2	10275.6	10141.6	10033.0
65°	11226.2	11325.8	11391.0	11856.3	12707.4	13502.2	12765.3	11907.0	11322.2	11146.6	11059.6
67.5°	11706.1	11760.4	11919.7	12446.6	13344.7	14251.9	13496.8	12502.8	11849.1	11541.3	11544.9
70°	11003.5	10893.1	11276.9	12120.7	13420.8	14711.8	13594.6	12095.3	11295.0	10795.3	10914.8
72.5°	8503.0	8312.8	8979.2	10422.3	12551.6	14418.5	12638.6	10503.8	9393.8	8379.8	8631.5
75°	4626.3	4410.8	5330.6	7155.8	10009.4	12497.3	10239.4	7360.4	5935.4	4591.9	4890.6
77.5°	1305.5	1224.0	1966.4	3462.0	6020.5	8774.6	6252.3	3538.1	2332.2	1383.4	1537.3
80°	400.2	387.5	525.1	1043.0	2556.7	4202.6	2457.1	1055.6	668.1	421.9	445.4
82.5°	237.2	217.3	260.7	380.2	651.8	1320.0	633.7	396.5	318.7	213.7	231.8
85°	135.8	126.7	153.9	184.7	219.1	280.7	182.9	188.3	170.2	114.1	119.5
87.5°	56.1	50.7	59.8	57.9	50.7	65.2	48.9	57.9	68.8	45.3	41.6
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)