

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: P883942

Luminaire Tested: **NAV-SB4C-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883942
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-SB4C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 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: 33098 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

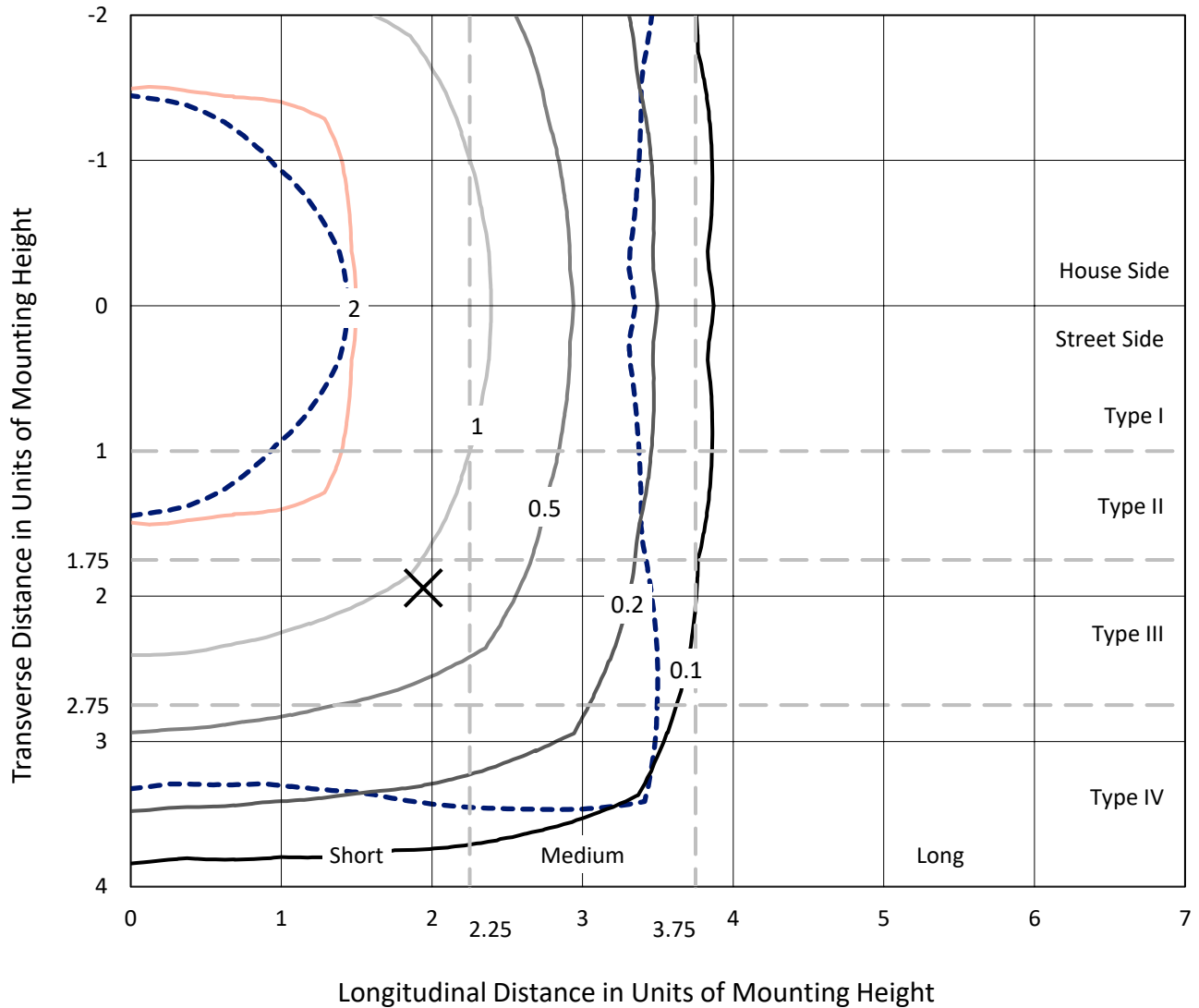
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

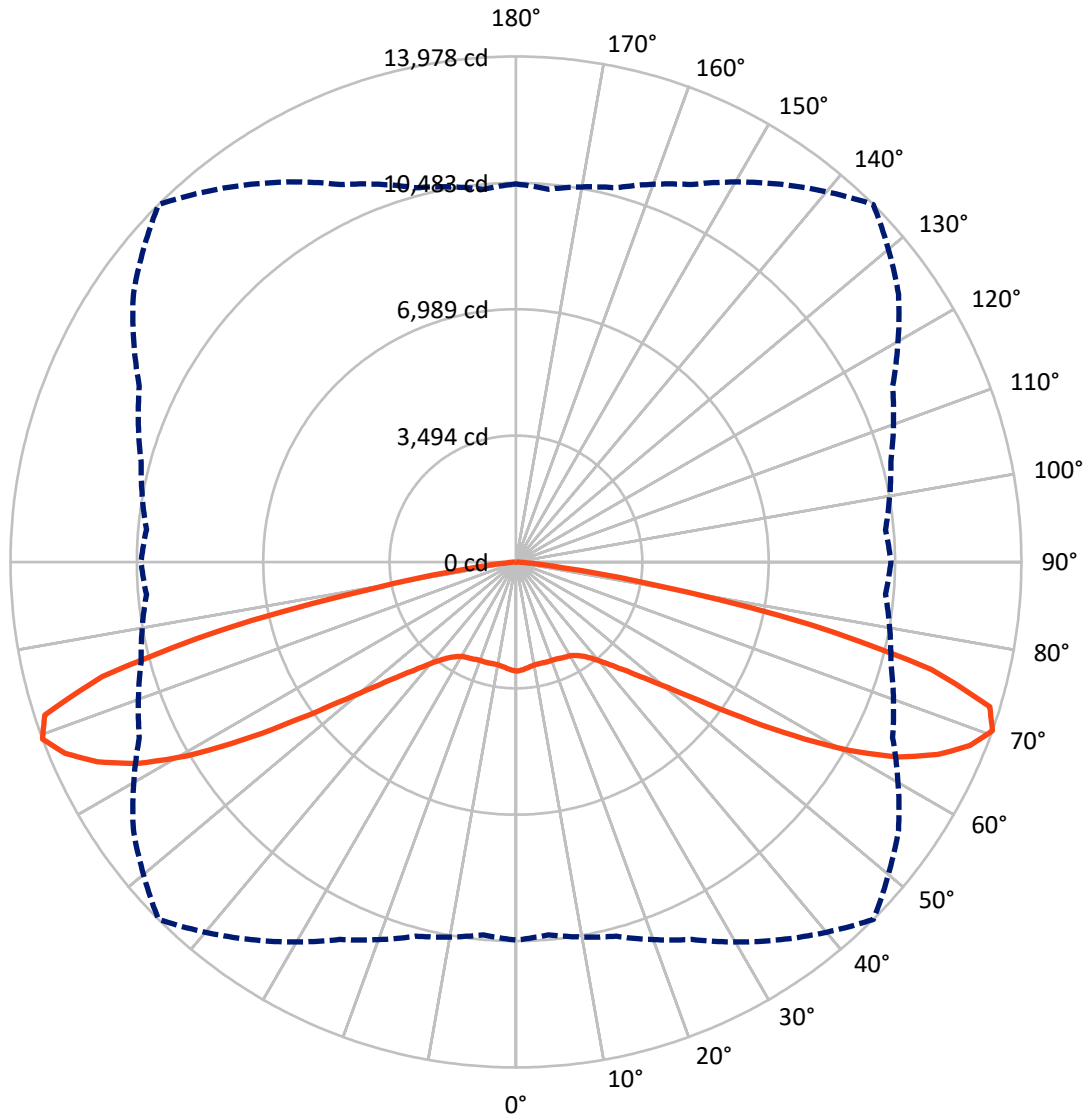
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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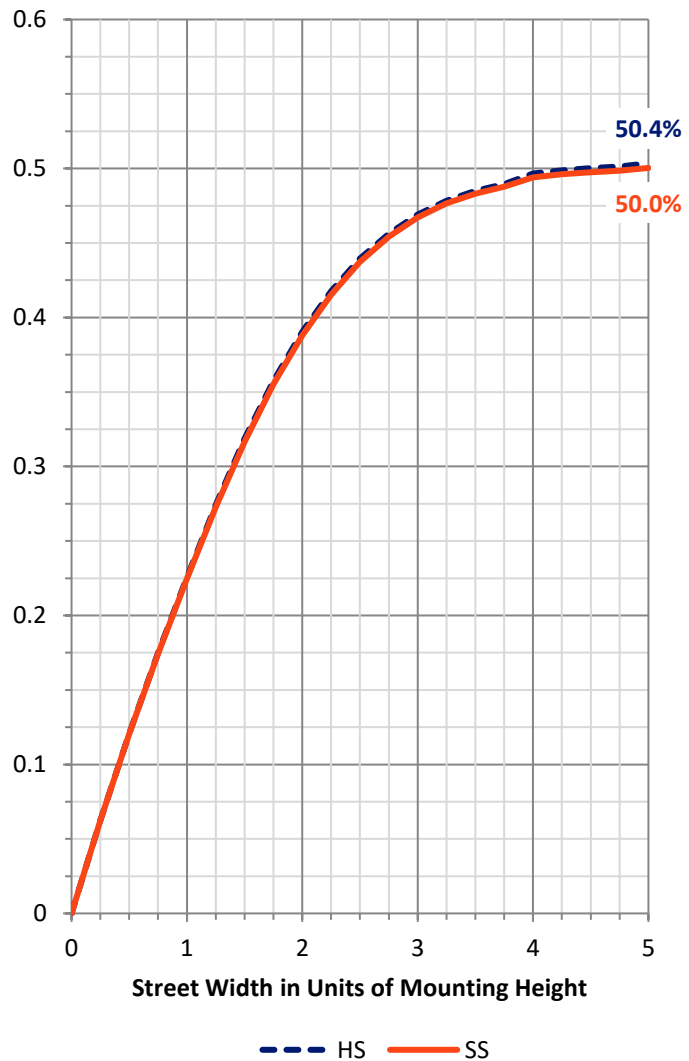
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16549.0	0.0	16549.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16549.0	0.0	16549.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33098.0	0.0	33098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	0.8
10°-20°	824.7	2.5
20°-30°	1372.4	4.1
30°-40°	2075.4	6.3
40°-50°	3448.9	10.4
50°-60°	6507.9	19.7
60°-70°	10988.8	33.2
70°-80°	7220.8	21.8
80°-90°	378.3	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°	33098.0	100.0
0°-180°	33098.0	100.0

Coefficient of Utilization



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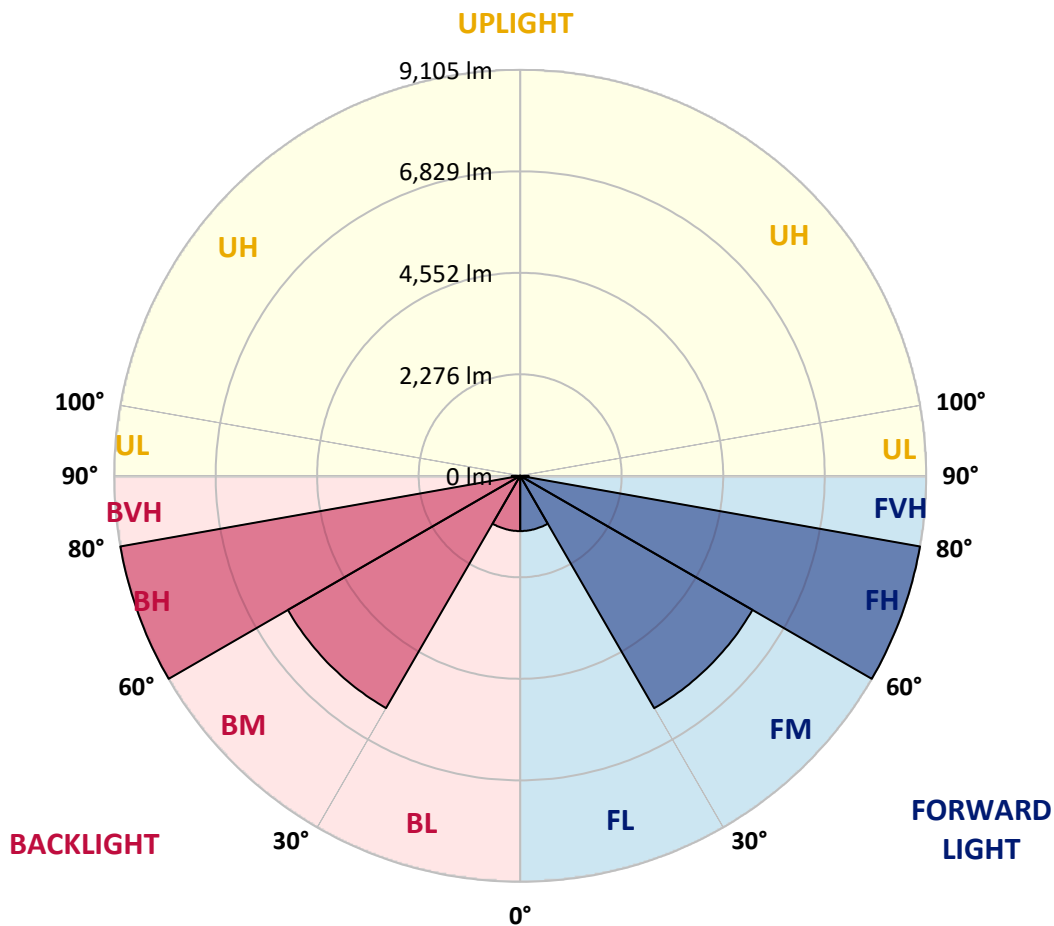
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.9	3.7			
FM (30°-60°)	6016.1	18.2			
FH (60°-80°)	9104.8	27.5			G4/12000
FVH (80°-90°)	189.2	0.6			G2/225
BL (0°-30°)	1238.9	3.7	B3/2500		
BM (30°-60°)	6016.1	18.2	B4/8500		
BH (60°-80°)	9104.8	27.5	B5		G4/12000
BVH (80°-90°)	189.2	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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3000.3	3008.9	3005.4	2998.6	2998.6	2993.4	2998.6	3002.0	3007.2	3010.6	3008.9
5°	2960.7	2967.6	2965.9	2960.7	2962.4	2957.3	2960.7	2965.9	2969.3	2971.0	2971.0
7.5°	2926.3	2933.2	2929.7	2921.1	2921.1	2916.0	2917.7	2922.9	2928.0	2929.7	2929.7
10°	2917.7	2924.6	2914.3	2900.5	2895.3	2888.5	2890.2	2895.3	2905.7	2910.8	2910.8
12.5°	2921.1	2926.3	2916.0	2895.3	2890.2	2883.3	2883.3	2888.5	2902.2	2909.1	2910.8
15°	2931.5	2936.6	2921.1	2898.8	2893.6	2888.5	2886.7	2893.6	2909.1	2921.1	2922.9
17.5°	2950.4	2955.6	2931.5	2900.5	2893.6	2895.3	2893.6	2898.8	2922.9	2945.2	2945.2
20°	2967.6	2971.0	2938.3	2900.5	2893.6	2895.3	2893.6	2903.9	2934.9	2965.9	2967.6
22.5°	2972.8	2976.2	2945.2	2912.5	2907.4	2909.1	2907.4	2917.7	2946.9	2977.9	2977.9
25°	2974.5	2979.6	2955.6	2929.7	2938.3	2941.8	2938.3	2940.1	2962.4	2990.0	2988.2
27.5°	3000.3	3007.2	2984.8	2962.4	2967.6	2965.9	2971.0	2976.2	2993.4	3020.9	3014.0
30°	3053.6	3058.8	3039.8	3017.5	3014.0	3002.0	3017.5	3034.7	3053.6	3077.7	3072.5
32.5°	3141.3	3151.7	3127.6	3103.5	3088.0	3081.1	3093.2	3122.4	3148.2	3174.0	3163.7
35°	3287.6	3294.5	3272.1	3227.4	3199.8	3199.8	3210.2	3248.0	3289.3	3322.0	3309.9
37.5°	3494.0	3502.6	3463.1	3409.7	3368.4	3368.4	3382.2	3421.8	3483.7	3530.1	3512.9
40°	3745.2	3757.2	3707.3	3652.3	3612.7	3605.8	3623.0	3667.8	3726.3	3784.8	3765.8
42.5°	4048.0	4061.7	3996.4	3948.2	3917.2	3917.2	3925.8	3967.1	4020.4	4092.7	4087.5
45°	4435.0	4459.1	4369.7	4321.5	4292.3	4299.1	4304.3	4340.4	4388.6	4471.2	4467.7
47.5°	4896.1	4920.2	4825.6	4775.7	4770.5	4803.2	4782.6	4808.4	4834.2	4928.8	4901.3
50°	5419.1	5460.4	5395.0	5391.6	5401.9	5462.1	5413.9	5427.7	5398.4	5458.7	5422.5
52.5°	6059.1	6119.3	6107.2	6127.9	6243.1	6367.0	6256.9	6208.7	6098.6	6117.5	6053.9
55°	6834.9	6926.1	6943.3	7067.2	7328.7	7581.6	7347.6	7153.2	6919.2	6876.2	6809.1
57.5°	7717.5	7789.7	7872.3	8125.2	8613.8	9062.8	8613.8	8183.7	7815.5	7727.8	7665.9
60°	8667.1	8756.6	8835.7	9209.0	9935.0	10566.4	9921.2	9238.2	8751.4	8632.7	8529.5
62.5°	9687.3	9802.5	9857.6	10272.2	11118.6	11872.1	11130.6	10303.1	9763.0	9635.6	9532.4
65°	10666.1	10760.8	10822.7	11264.8	12073.4	12828.6	12128.4	11313.0	10757.3	10590.4	10507.9
67.5°	11122.0	11173.6	11325.0	11825.6	12678.9	13540.8	12823.4	11879.0	11257.9	10965.5	10968.9
70°	10454.5	10349.6	10714.3	11516.0	12751.2	13977.8	12916.3	11491.9	10731.5	10256.7	10370.2
72.5°	8078.7	7898.1	8531.2	9902.3	11925.4	13699.1	12008.0	9979.7	8925.1	7961.8	8200.9
75°	4395.5	4190.8	5064.7	6798.8	9510.1	11873.8	9728.5	6993.2	5639.3	4362.8	4646.6
77.5°	1240.4	1163.0	1868.3	3289.3	5720.1	8336.8	5940.3	3361.6	2215.8	1314.3	1460.6
80°	380.2	368.2	498.9	990.9	2429.1	3992.9	2334.5	1003.0	634.8	400.8	423.2
82.5°	225.4	206.4	247.7	361.3	619.3	1254.1	602.1	376.8	302.8	203.0	220.2
85°	129.0	120.4	146.2	175.5	208.2	266.7	173.8	178.9	161.7	108.4	113.5
87.5°	53.3	48.2	56.8	55.1	48.2	61.9	46.4	55.1	65.4	43.0	39.6
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)