

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: P968673

Luminaire Tested: **NAV-SB5C-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968673
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-SB5C-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33546.2 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

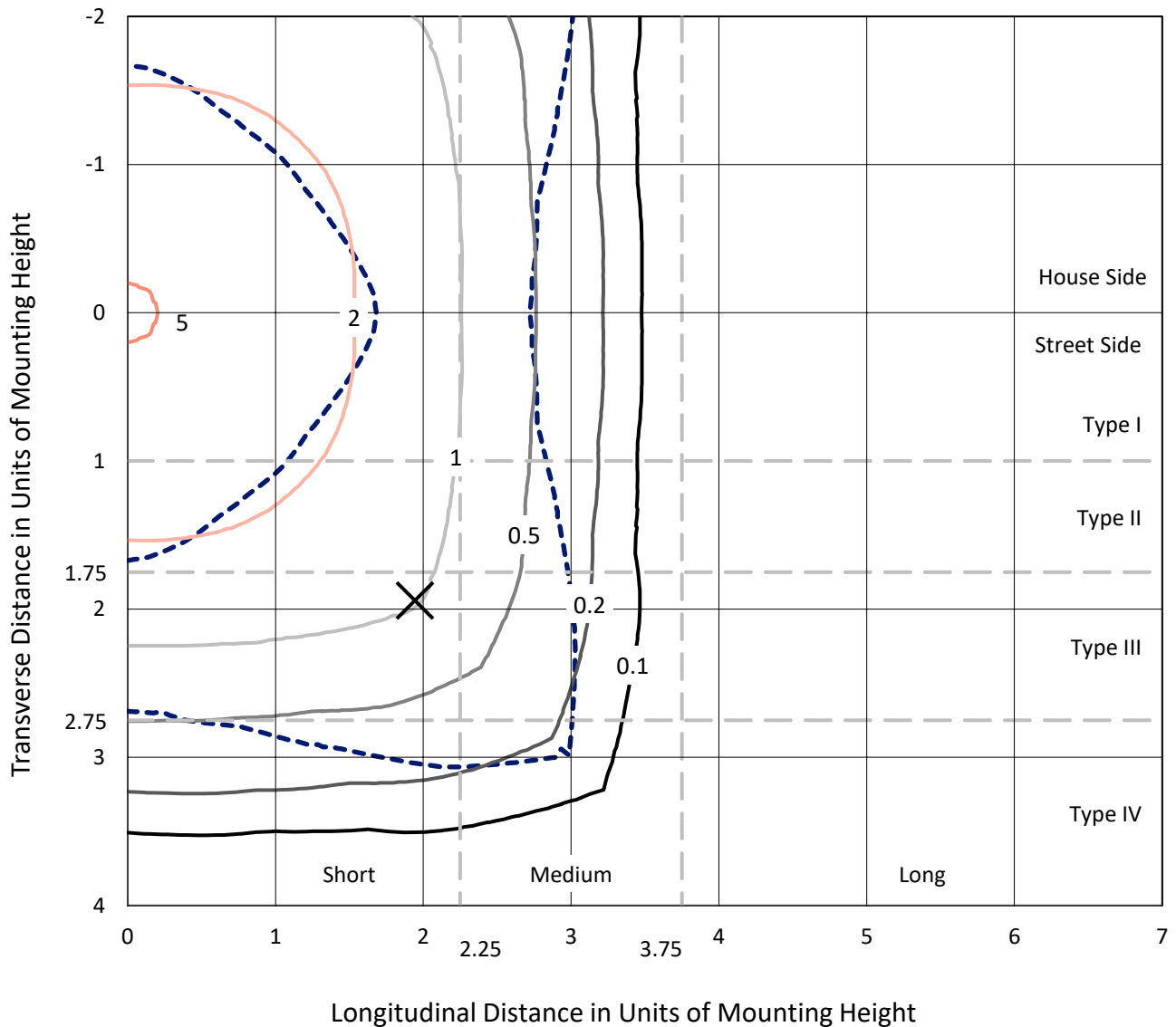
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

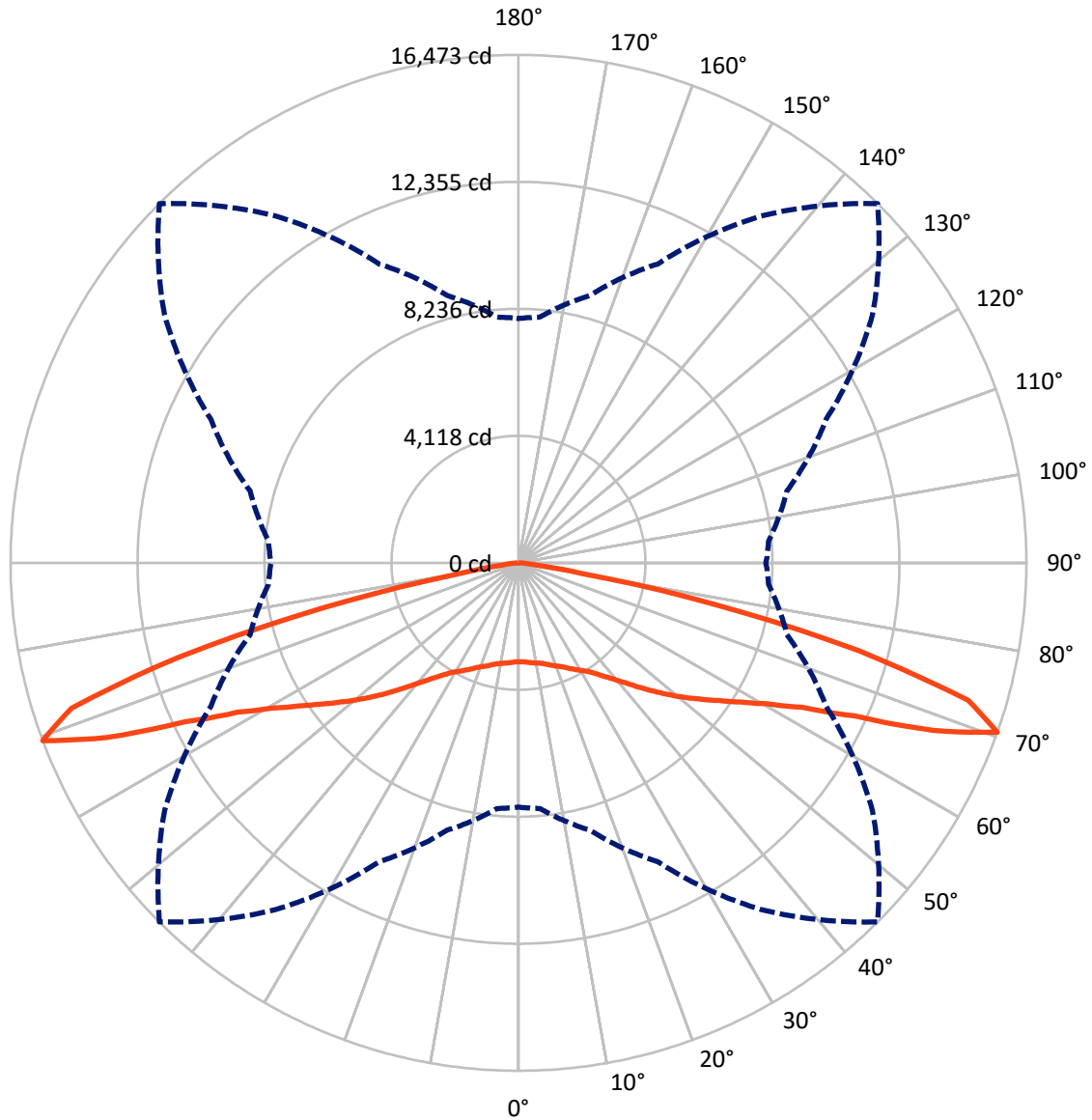
✕ Max cd
 - - - 1/2 Max cd



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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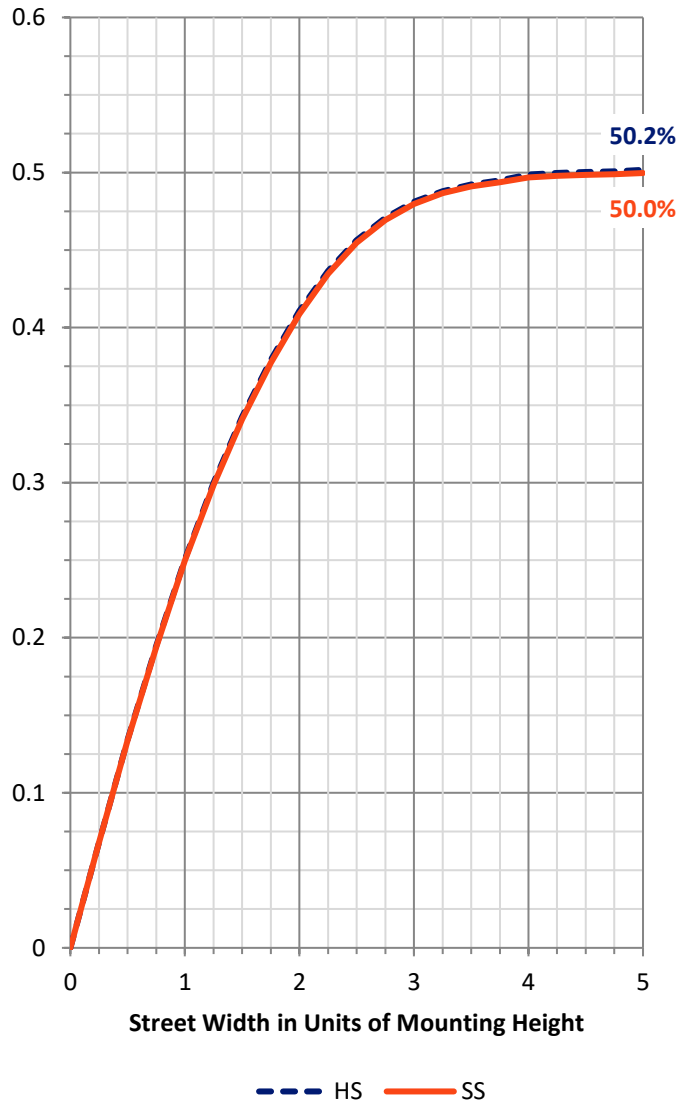
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16773.1	0.0	16773.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16773.1	0.0	16773.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	33546.2	0.0	33546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	0.9
10°-20°	968.0	2.9
20°-30°	1730.0	5.2
30°-40°	2804.3	8.4
40°-50°	4567.7	13.6
50°-60°	6964.3	20.8
60°-70°	10360.6	30.9
70°-80°	5646.9	16.8
80°-90°	192.3	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°	33546.2	100.0
0°-180°	33546.2	100.0

Coefficient of Utilization

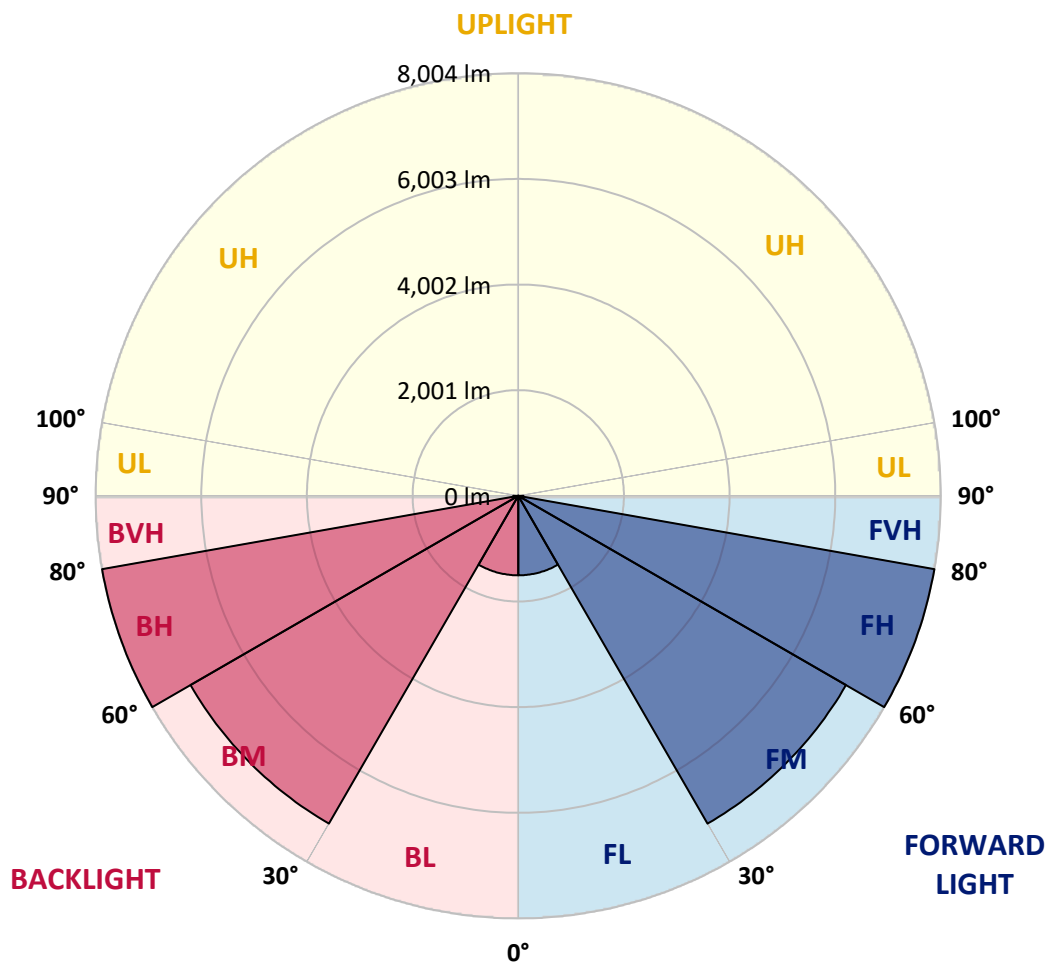


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.1	4.5			
FM (30°-60°)	7168.1	21.4			
FH (60°-80°)	8003.7	23.9			G4/12000
FVH (80°-90°)	96.1	0.3			G1/100
BL (0°-30°)	1505.1	4.5	B3/2500		
BM (30°-60°)	7168.1	21.4	B4/8500		
BH (60°-80°)	8003.7	23.9	B5		G4/12000
BVH (80°-90°)	96.1	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-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3213.4	3213.4	3213.4	3213.4	3213.4	3213.4	3213.4	3213.4	3213.4	3213.4	3213.4
2.5°	3228.5	3231.9	3225.2	3221.8	3218.4	3213.4	3215.0	3223.5	3230.2	3228.5	3230.2
5°	3255.5	3258.9	3253.8	3252.1	3245.4	3243.7	3243.7	3252.1	3257.1	3253.8	3255.5
7.5°	3285.8	3290.9	3282.5	3280.7	3277.3	3274.1	3272.3	3280.7	3285.8	3285.8	3285.8
10°	3314.4	3319.5	3312.7	3307.7	3304.3	3304.3	3300.9	3307.7	3316.1	3314.4	3314.4
12.5°	3344.8	3348.2	3341.4	3338.0	3338.0	3343.0	3338.0	3341.4	3348.2	3344.8	3343.0
15°	3381.8	3383.5	3381.8	3386.8	3395.3	3412.1	3397.0	3393.6	3397.0	3388.5	3388.5
17.5°	3432.3	3435.7	3442.5	3454.2	3466.0	3496.3	3469.4	3460.9	3460.9	3444.1	3444.1
20°	3494.6	3499.7	3509.8	3530.0	3545.2	3573.8	3546.8	3535.0	3530.0	3508.1	3508.1
22.5°	3560.3	3568.7	3583.9	3610.9	3637.8	3664.8	3637.8	3617.5	3602.5	3573.8	3572.1
25°	3636.1	3646.2	3669.8	3713.6	3750.6	3789.3	3757.3	3717.0	3686.6	3646.2	3644.5
27.5°	3743.9	3755.7	3784.3	3838.2	3885.4	3919.1	3888.7	3836.5	3794.4	3745.6	3743.9
30°	3895.5	3907.3	3940.9	3998.2	4030.2	4052.1	4031.8	3991.5	3940.9	3885.4	3885.4
32.5°	4090.9	4105.9	4143.0	4197.0	4203.6	4207.0	4200.3	4180.1	4143.0	4075.7	4077.3
35°	4338.4	4355.2	4397.4	4441.1	4434.4	4441.1	4431.1	4424.3	4397.4	4319.9	4319.9
37.5°	4641.5	4661.8	4705.6	4739.2	4722.4	4714.0	4715.6	4717.4	4702.2	4616.3	4616.3
40°	4993.5	5020.4	5052.5	5087.9	5059.2	5034.0	5050.8	5064.3	5050.8	4963.3	4963.3
42.5°	5355.6	5394.4	5428.1	5478.6	5454.9	5423.0	5446.5	5461.7	5433.1	5338.8	5345.5
45°	5758.1	5795.2	5839.0	5914.8	5898.0	5864.2	5898.0	5901.3	5852.4	5741.3	5753.1
47.5°	6174.1	6212.8	6278.5	6379.6	6372.8	6335.8	6379.6	6356.0	6293.7	6160.7	6152.3
50°	6568.2	6622.1	6723.2	6864.6	6878.2	6832.6	6891.6	6846.1	6741.7	6575.0	6571.6
52.5°	6938.7	6996.0	7156.0	7348.0	7396.8	7337.9	7417.0	7337.9	7181.3	6967.3	6947.1
55°	7327.8	7391.8	7582.1	7833.0	7930.7	7887.0	7961.1	7841.5	7619.1	7359.8	7324.4
57.5°	7785.9	7824.6	8052.0	8350.1	8515.1	8525.2	8559.0	8356.8	8087.4	7792.6	7752.2
60°	8282.7	8336.6	8584.2	8941.2	9202.2	9286.5	9251.1	8951.3	8638.1	8299.5	8245.6
62.5°	8919.3	8978.3	9274.7	9702.4	10115.1	10323.9	10185.8	9751.3	9363.9	8958.1	8887.4
65°	9446.5	9512.1	10047.7	10810.7	11561.8	11981.1	11634.2	10834.2	10136.9	9564.4	9470.1
67.5°	9064.2	9144.9	9985.3	11386.6	13254.4	14505.7	13318.3	11558.4	10192.5	9416.2	9299.9
70°	7922.3	7998.1	8978.3	10691.1	13731.0	16472.8	14017.3	11006.0	9010.3	8141.3	8025.0
72.5°	5259.7	5503.8	6495.8	8550.4	12260.6	15243.4	12382.0	8377.0	6026.0	5247.8	5077.7
75°	1744.8	1940.1	2617.2	4432.7	8212.0	11400.0	7817.9	3922.4	2073.2	1492.2	1411.3
77.5°	439.5	507.0	698.9	1268.1	3275.7	6490.7	2948.9	1035.8	564.2	394.1	352.0
80°	213.9	235.7	336.8	422.7	820.2	2063.1	769.7	397.5	266.1	205.5	188.6
82.5°	117.9	119.6	190.3	239.1	304.8	533.9	316.6	232.4	153.2	124.6	124.6
85°	72.5	70.7	101.1	128.0	128.0	190.3	151.6	128.0	87.5	77.5	80.9
87.5°	28.6	28.6	37.0	40.4	35.4	48.8	38.7	42.1	33.7	32.0	33.7
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)