

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: P885122

Luminaire Tested: **NAV-SB6B-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885122
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-SB6B-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34572 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

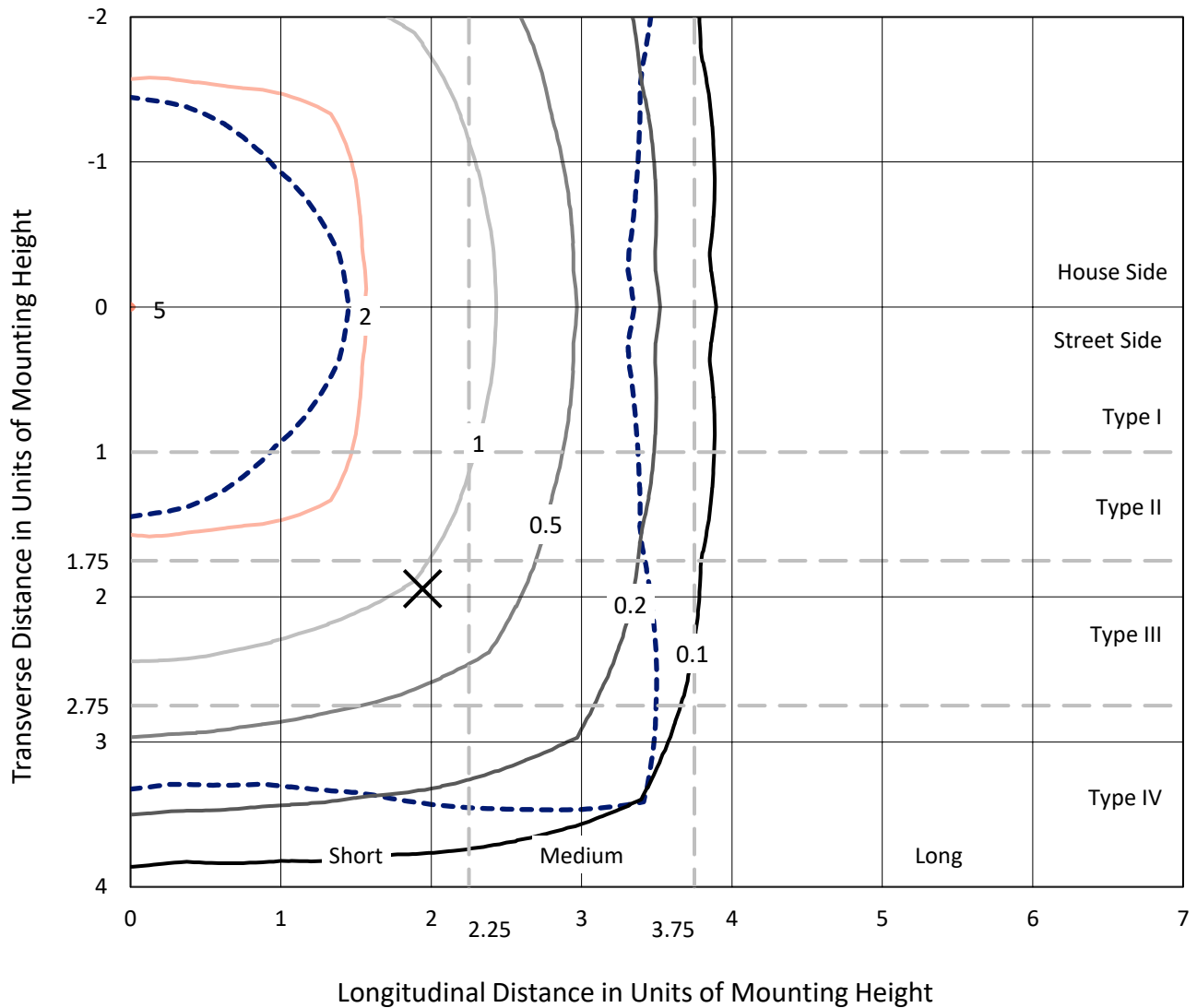
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

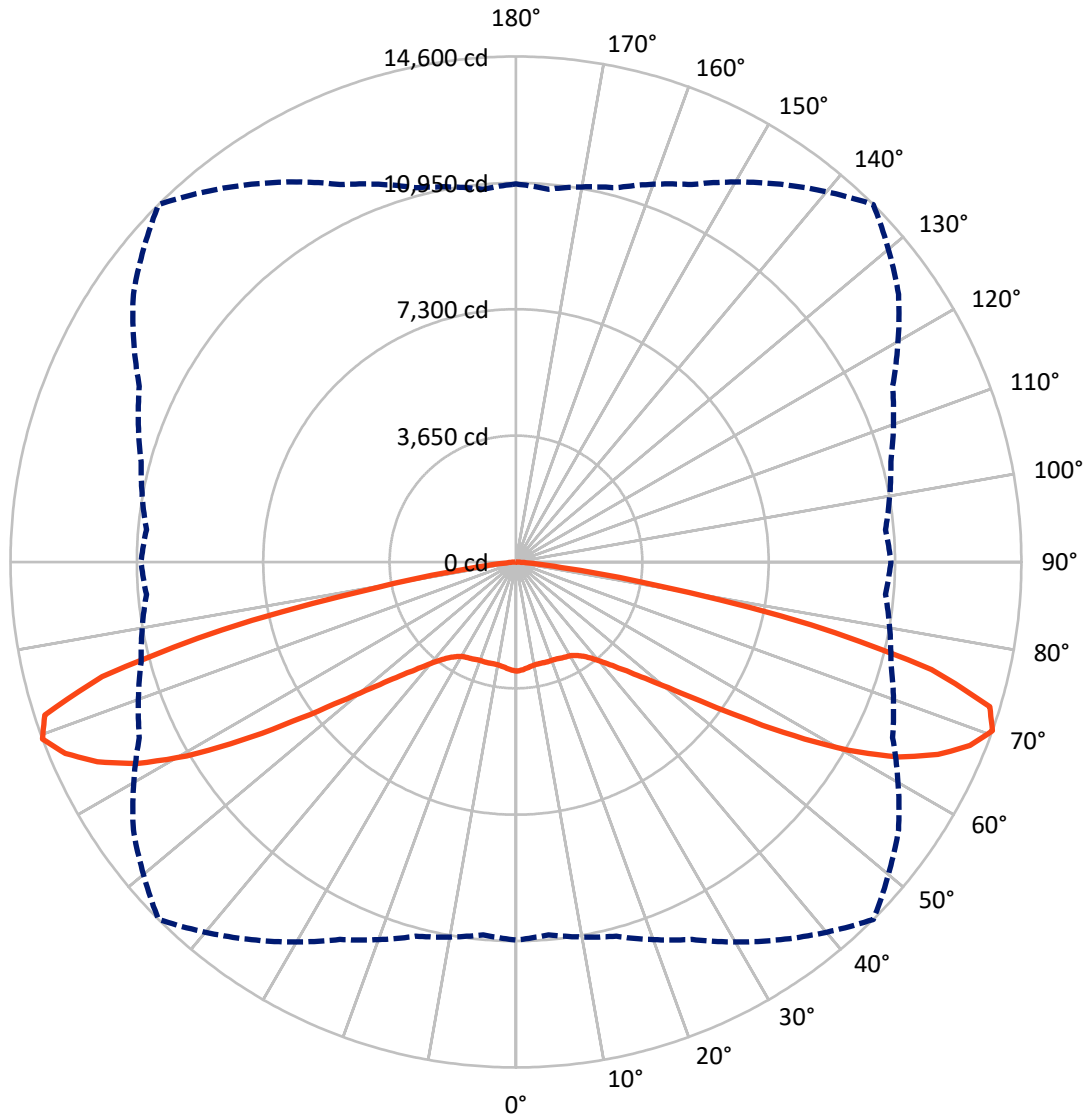
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	17286.0	0.0	17286.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17286.0	0.0	17286.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34572.0	0.0	34572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.4	0.8
10°-20°	861.4	2.5
20°-30°	1433.5	4.1
30°-40°	2167.9	6.3
40°-50°	3602.5	10.4
50°-60°	6797.7	19.7
60°-70°	11478.2	33.2
70°-80°	7542.4	21.8
80°-90°	395.1	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°	34572.0	100.0
0°-180°	34572.0	100.0

Coefficient of Utilization



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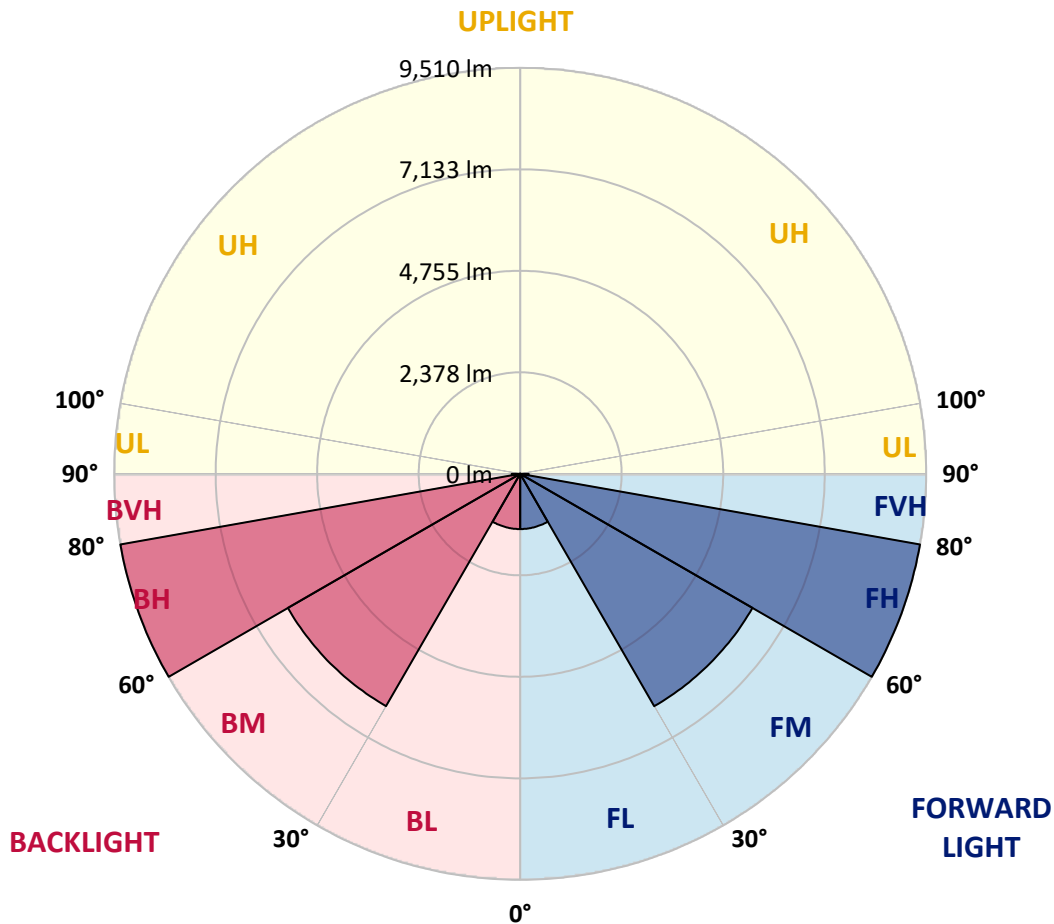
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.1	3.7			
FM (30°-60°)	6284.0	18.2			
FH (60°-80°)	9510.3	27.5			G4/12000
FVH (80°-90°)	197.6	0.6			G2/225
BL (0°-30°)	1294.1	3.7	B3/2500		
BM (30°-60°)	6284.0	18.2	B4/8500		
BH (60°-80°)	9510.3	27.5	B5		G4/12000
BVH (80°-90°)	197.6	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°	3153.7	3153.7	3153.7	3153.7	3153.7	3153.7	3153.7	3153.7	3153.7	3153.7	3153.7
2.5°	3133.9	3142.9	3139.3	3132.1	3132.1	3126.7	3132.1	3135.7	3141.1	3144.7	3142.9
5°	3092.6	3099.8	3098.0	3092.6	3094.4	3089.0	3092.6	3098.0	3101.6	3103.3	3103.3
7.5°	3056.6	3063.8	3060.2	3051.2	3051.2	3045.8	3047.6	3053.0	3058.4	3060.2	3060.2
10°	3047.6	3054.8	3044.0	3029.7	3024.3	3017.1	3018.9	3024.3	3035.1	3040.5	3040.5
12.5°	3051.2	3056.6	3045.8	3024.3	3018.9	3011.7	3011.7	3017.1	3031.5	3038.7	3040.5
15°	3062.0	3067.4	3051.2	3027.9	3022.5	3017.1	3015.3	3022.5	3038.7	3051.2	3053.0
17.5°	3081.8	3087.2	3062.0	3029.7	3022.5	3024.3	3022.5	3027.9	3053.0	3076.4	3076.4
20°	3099.8	3103.3	3069.2	3029.7	3022.5	3024.3	3022.5	3033.3	3065.6	3098.0	3099.8
22.5°	3105.1	3108.7	3076.4	3042.3	3036.9	3038.7	3036.9	3047.6	3078.2	3110.5	3110.5
25°	3106.9	3112.3	3087.2	3060.2	3069.2	3072.8	3069.2	3071.0	3094.4	3123.1	3121.3
27.5°	3133.9	3141.1	3117.7	3094.4	3099.8	3098.0	3103.3	3108.7	3126.7	3155.5	3148.3
30°	3189.6	3195.0	3175.2	3151.9	3148.3	3135.7	3151.9	3169.8	3189.6	3214.8	3209.4
32.5°	3281.2	3292.0	3266.9	3241.7	3225.5	3218.4	3230.9	3261.5	3288.4	3315.4	3304.6
35°	3434.0	3441.2	3417.8	3371.1	3342.3	3342.3	3353.1	3392.7	3435.8	3469.9	3457.3
37.5°	3649.6	3658.6	3617.3	3561.6	3518.4	3518.4	3532.8	3574.2	3638.8	3687.4	3669.4
40°	3912.0	3924.6	3872.4	3814.9	3773.6	3766.4	3784.4	3831.1	3892.2	3953.3	3933.5
42.5°	4228.2	4242.6	4174.3	4124.0	4091.7	4091.7	4100.7	4143.8	4199.5	4275.0	4269.6
45°	4632.6	4657.7	4564.3	4514.0	4483.4	4490.6	4496.0	4533.7	4584.0	4670.3	4666.7
47.5°	5114.1	5139.3	5040.5	4988.4	4983.0	5017.1	4995.5	5022.5	5049.5	5148.3	5119.5
50°	5660.4	5703.5	5635.3	5631.7	5642.5	5705.3	5655.0	5669.4	5638.9	5701.7	5664.0
52.5°	6328.9	6391.8	6379.2	6400.8	6521.2	6650.5	6535.5	6485.2	6370.2	6390.0	6323.5
55°	7139.3	7234.6	7252.5	7381.9	7655.0	7919.2	7674.8	7471.8	7227.4	7182.4	7112.4
57.5°	8061.2	8136.6	8222.9	8487.0	8997.4	9466.4	8997.4	8548.1	8163.6	8071.9	8007.2
60°	9053.1	9146.5	9229.2	9619.1	10377.4	11036.9	10363.1	9649.7	9141.1	9017.1	8909.3
62.5°	10118.7	10239.1	10296.6	10729.6	11613.7	12400.8	11626.3	10762.0	10197.7	10064.8	9956.9
65°	11141.1	11240.0	11304.7	11766.5	12611.1	13399.9	12668.6	11816.8	11236.4	11062.1	10975.8
67.5°	11617.3	11671.2	11829.4	12352.3	13243.6	14143.9	13394.5	12408.0	11759.3	11453.8	11457.4
70°	10920.1	10810.5	11191.5	12028.8	13319.1	14600.3	13491.6	12003.7	11209.4	10713.5	10832.1
72.5°	8438.5	8249.8	8911.1	10343.3	12456.5	14309.2	12542.8	10424.2	9322.6	8316.3	8566.1
75°	4591.2	4377.4	5290.2	7101.6	9933.6	12402.6	10161.8	7304.6	5890.4	4557.1	4853.6
77.5°	1295.6	1214.7	1951.5	3435.8	5974.9	8708.1	6204.9	3511.3	2314.5	1372.9	1525.6
80°	397.1	384.5	521.1	1035.0	2537.3	4170.7	2438.5	1047.6	663.1	418.7	442.1
82.5°	235.4	215.6	258.8	377.4	646.9	1310.0	628.9	393.5	316.3	212.0	230.0
85°	134.8	125.8	152.7	183.3	217.4	278.5	181.5	186.9	168.9	113.2	118.6
87.5°	55.7	50.3	59.3	57.5	50.3	64.7	48.5	57.5	68.3	44.9	41.3
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)