

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: P885112

Luminaire Tested: **NAV-SB6B-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885112
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 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: 34032 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

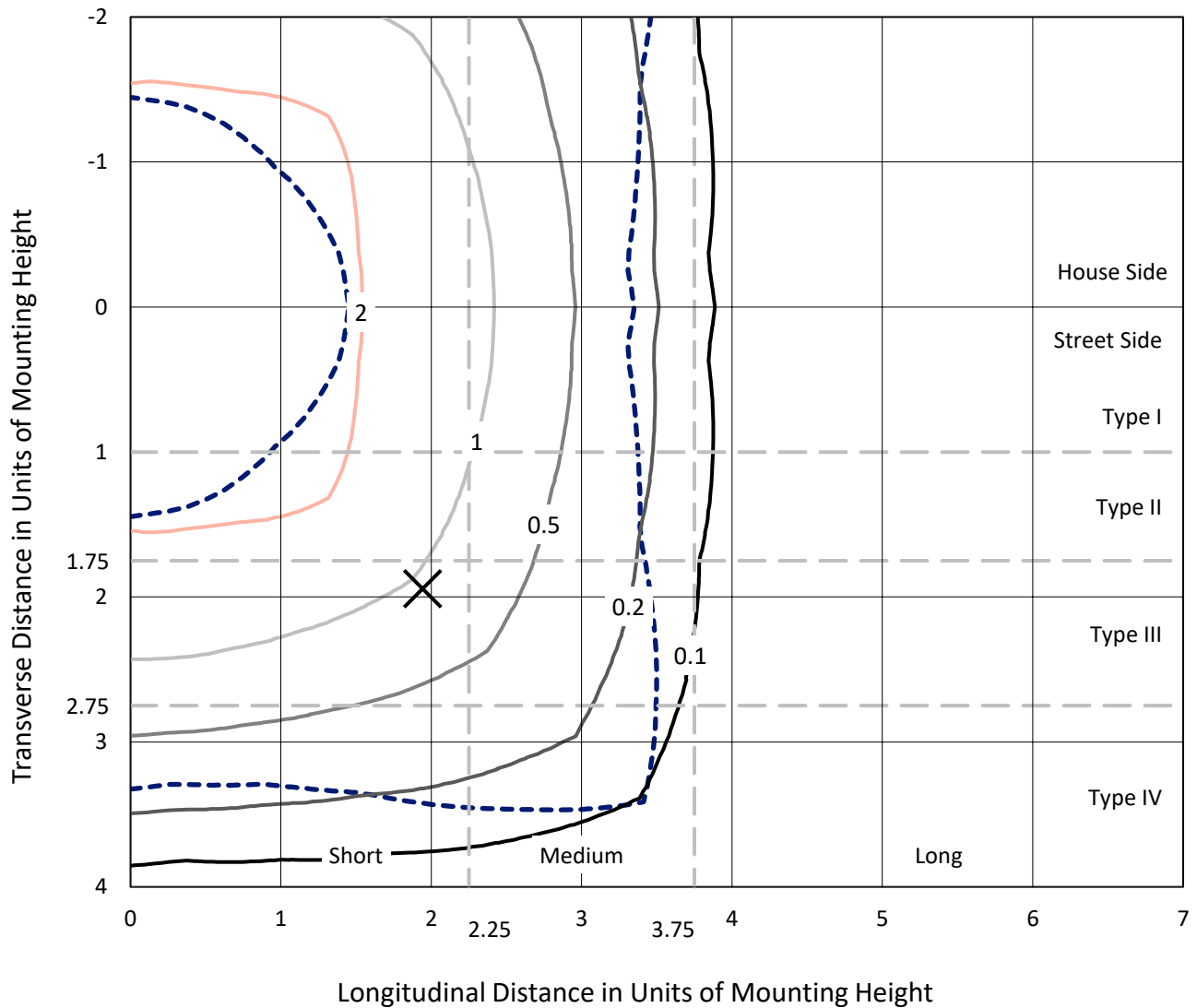
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

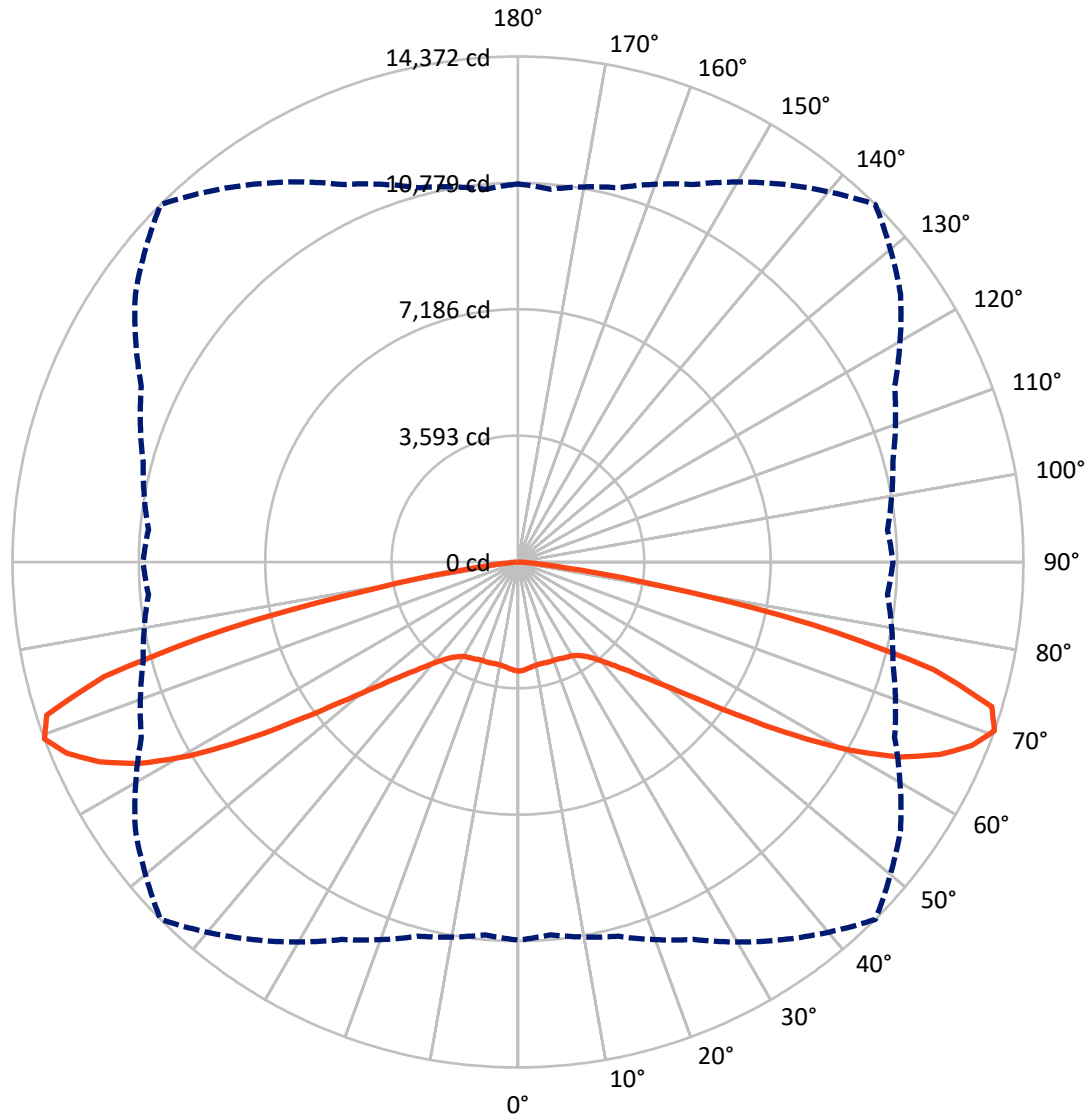
✕ Max cd
 - - - 1/2 Max cd



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	17016.0	0.0	17016.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17016.0	0.0	17016.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34032.0	0.0	34032.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	0.8
10°-20°	847.9	2.5
20°-30°	1411.1	4.1
30°-40°	2134.0	6.3
40°-50°	3546.2	10.4
50°-60°	6691.5	19.7
60°-70°	11298.9	33.2
70°-80°	7424.6	21.8
80°-90°	389.0	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°	34032.0	100.0
0°-180°	34032.0	100.0



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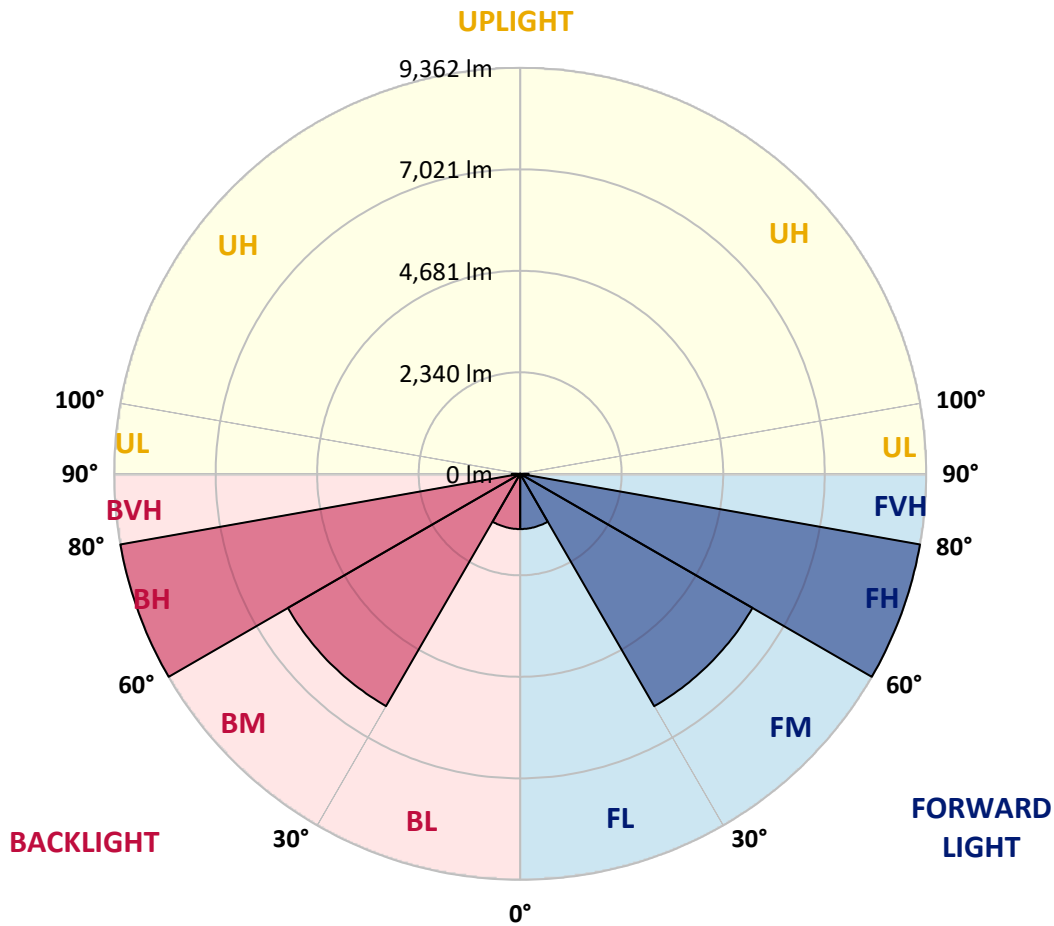
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.9	3.7			
FM (30°-60°)	6185.9	18.2			
FH (60°-80°)	9361.7	27.5			G4/12000
FVH (80°-90°)	194.5	0.6			G2/225
BL (0°-30°)	1273.9	3.7	B3/2500		
BM (30°-60°)	6185.9	18.2	B4/8500		
BH (60°-80°)	9361.7	27.5	B5		G4/12000
BVH (80°-90°)	194.5	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°	3104.4	3104.4	3104.4	3104.4	3104.4	3104.4	3104.4	3104.4	3104.4	3104.4	3104.4
2.5°	3084.9	3093.8	3090.3	3083.2	3083.2	3077.9	3083.2	3086.7	3092.0	3095.6	3093.8
5°	3044.3	3051.3	3049.6	3044.3	3046.0	3040.7	3044.3	3049.6	3053.1	3054.9	3054.9
7.5°	3008.9	3016.0	3012.4	3003.6	3003.6	2998.3	3000.0	3005.3	3010.7	3012.4	3012.4
10°	3000.0	3007.1	2996.5	2982.4	2977.0	2970.0	2971.7	2977.0	2987.7	2993.0	2993.0
12.5°	3003.6	3008.9	2998.3	2977.0	2971.7	2964.7	2964.7	2970.0	2984.1	2991.2	2993.0
15°	3014.2	3019.5	3003.6	2980.6	2975.3	2970.0	2968.2	2975.3	2991.2	3003.6	3005.3
17.5°	3033.6	3039.0	3014.2	2982.4	2975.3	2977.0	2975.3	2980.6	3005.3	3028.3	3028.3
20°	3051.3	3054.9	3021.3	2982.4	2975.3	2977.0	2975.3	2985.9	3017.7	3049.6	3051.3
22.5°	3056.6	3060.2	3028.3	2994.7	2989.4	2991.2	2989.4	3000.0	3030.1	3062.0	3062.0
25°	3058.4	3063.7	3039.0	3012.4	3021.3	3024.8	3021.3	3023.0	3046.0	3074.3	3072.6
27.5°	3084.9	3092.0	3069.0	3046.0	3051.3	3049.6	3054.9	3060.2	3077.9	3106.2	3099.1
30°	3139.8	3145.1	3125.6	3102.6	3099.1	3086.7	3102.6	3120.3	3139.8	3164.5	3159.2
32.5°	3230.0	3240.6	3215.8	3191.1	3175.2	3168.1	3180.5	3210.5	3237.1	3263.6	3253.0
35°	3380.4	3387.4	3364.4	3318.4	3290.1	3290.1	3300.8	3339.7	3382.1	3415.7	3403.3
37.5°	3592.6	3601.5	3560.8	3505.9	3463.5	3463.5	3477.6	3518.3	3582.0	3629.8	3612.1
40°	3850.9	3863.3	3812.0	3755.4	3714.7	3707.6	3725.3	3771.3	3831.4	3891.6	3872.1
42.5°	4162.2	4176.4	4109.1	4059.6	4027.8	4027.8	4036.6	4079.1	4133.9	4208.2	4202.9
45°	4560.2	4585.0	4493.0	4443.5	4413.4	4420.5	4425.8	4462.9	4512.4	4597.3	4593.8
47.5°	5034.3	5059.0	4961.7	4910.4	4905.1	4938.7	4917.5	4944.1	4970.6	5067.9	5039.6
50°	5572.0	5614.5	5547.2	5543.7	5554.3	5616.2	5566.7	5580.9	5550.8	5612.7	5575.5
52.5°	6230.0	6291.9	6279.6	6300.8	6419.3	6546.7	6433.5	6383.9	6270.7	6290.2	6224.7
55°	7027.8	7121.6	7139.2	7266.6	7535.5	7795.5	7554.9	7355.0	7114.5	7070.3	7001.3
57.5°	7935.2	8009.5	8094.4	8354.5	8856.8	9318.5	8856.8	8414.6	8036.1	7945.9	7882.2
60°	8911.7	9003.7	9085.0	9468.9	10215.3	10864.5	10201.2	9498.9	8998.3	8876.3	8770.2
62.5°	9960.6	10079.1	10135.7	10562.0	11432.3	12207.1	11444.7	10593.9	10038.5	9907.6	9801.4
65°	10967.1	11064.4	11128.1	11582.7	12414.1	13190.6	12470.7	11632.2	11060.9	10889.3	10804.4
67.5°	11435.9	11488.9	11644.6	12159.4	13036.7	13922.9	13185.3	12214.2	11575.6	11274.9	11278.4
70°	10749.6	10641.6	11016.7	11841.0	13111.0	14372.2	13280.8	11816.2	11034.3	10546.1	10662.9
72.5°	8306.7	8121.0	8771.9	10181.7	12262.0	14085.7	12346.9	10261.3	9177.0	8186.4	8432.3
75°	4519.5	4309.0	5207.6	6990.7	9778.4	12208.9	10003.1	7190.5	5798.4	4485.9	4777.8
77.5°	1275.4	1195.8	1921.0	3382.1	5881.6	8572.0	6108.0	3456.4	2278.3	1351.4	1501.8
80°	390.9	378.5	513.0	1018.9	2497.7	4105.6	2400.4	1031.3	652.7	412.2	435.1
82.5°	231.7	212.3	254.7	371.5	636.8	1289.5	619.1	387.4	311.3	208.7	226.4
85°	132.7	123.8	150.4	180.4	214.0	274.2	178.7	184.0	166.3	111.4	116.7
87.5°	54.8	49.5	58.4	56.6	49.5	63.7	47.8	56.6	67.2	44.2	40.7
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)