

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: P885472

Luminaire Tested: **NAV-SB6D-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885472
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-SB6D-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67357 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

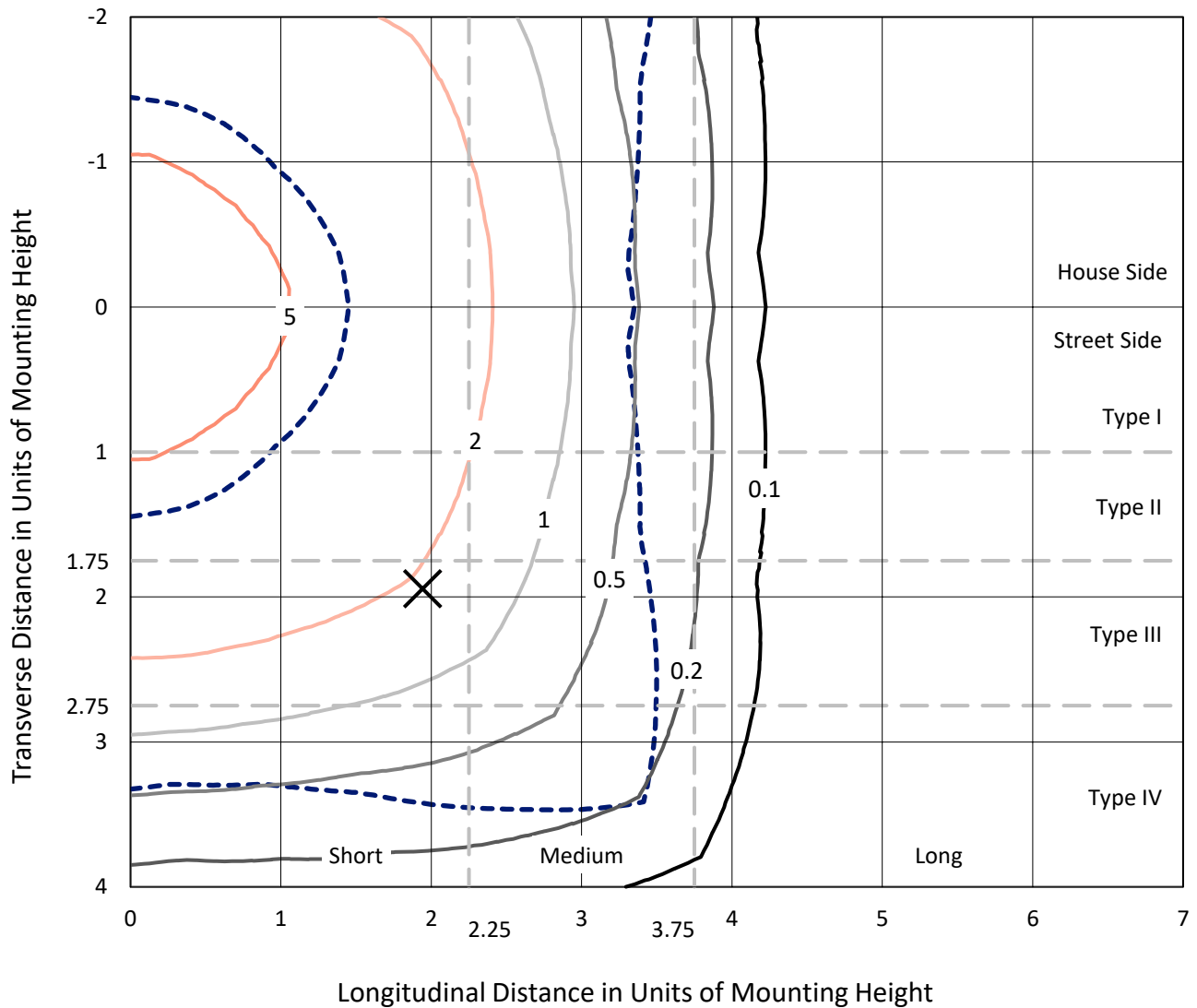
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

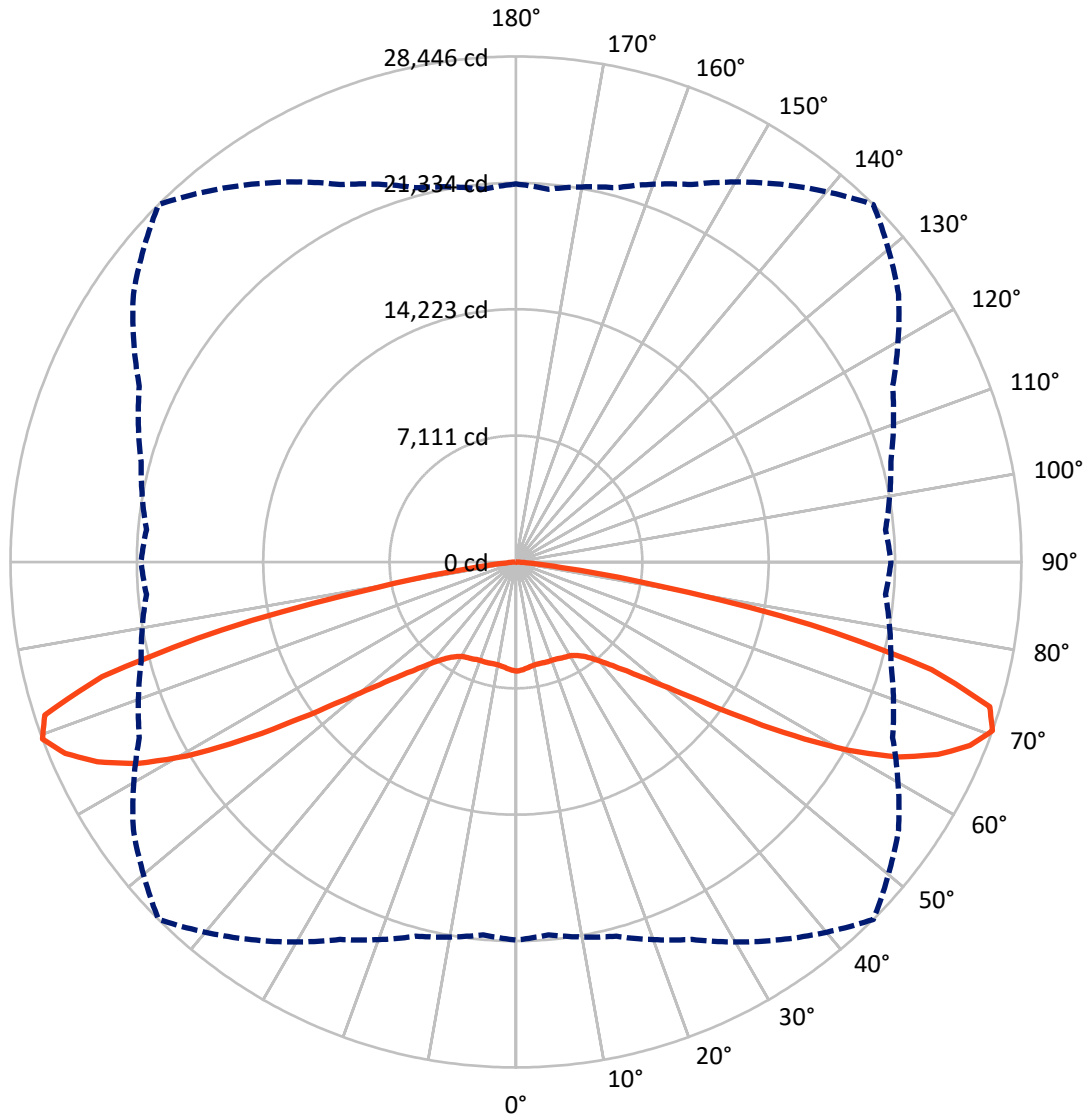
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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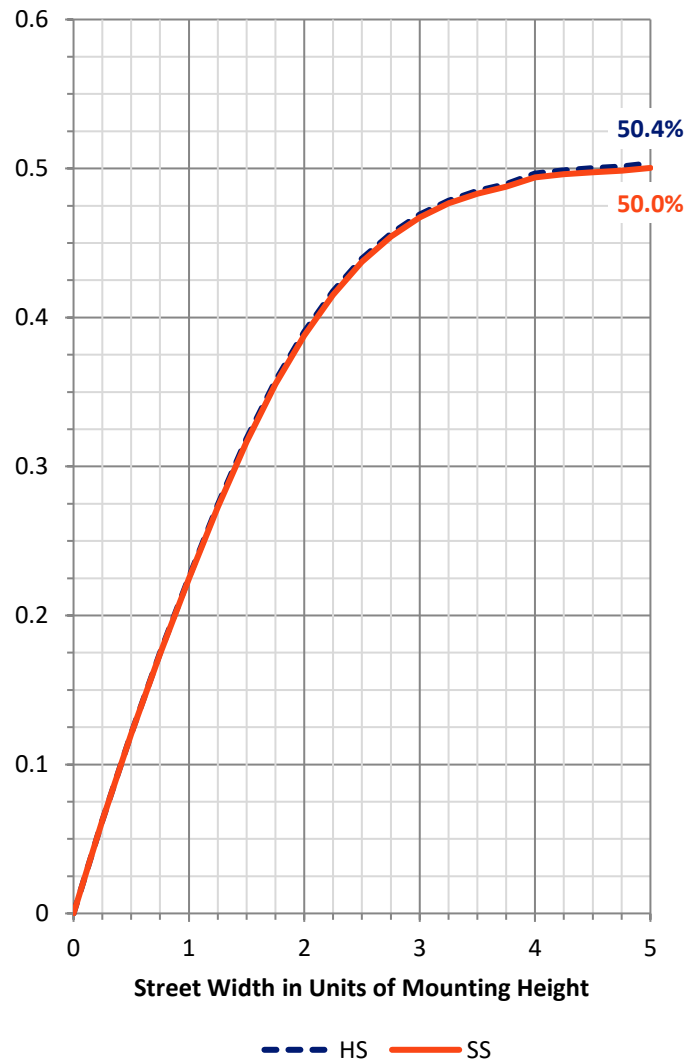
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33678.5	0.0	33678.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33678.5	0.0	33678.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67357.0	0.0	67357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.6	0.8
10°-20°	1678.3	2.5
20°-30°	2792.9	4.1
30°-40°	4223.7	6.3
40°-50°	7018.7	10.4
50°-60°	13244.1	19.7
60°-70°	22363.1	33.2
70°-80°	14694.9	21.8
80°-90°	769.9	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°	67357.0	100.0
0°-180°	67357.0	100.0

Coefficient of Utilization



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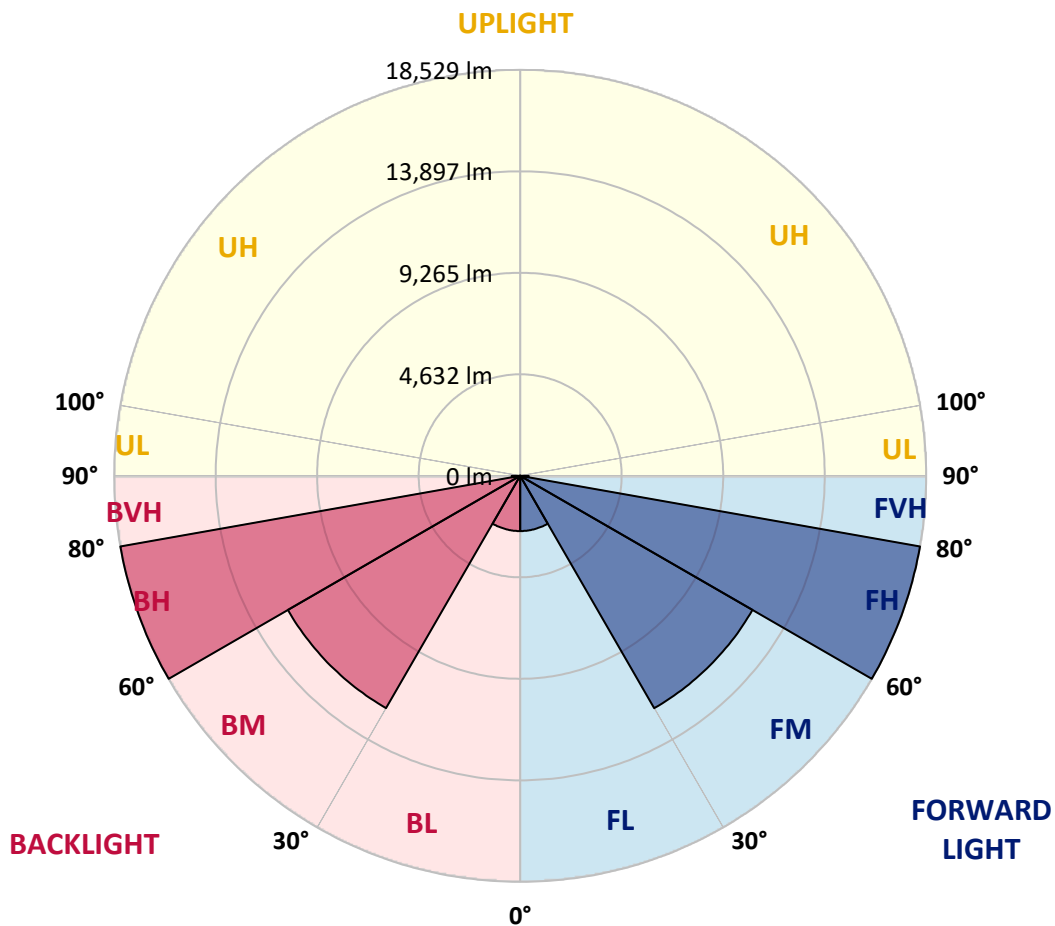
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.3	3.7			
FM (30°-60°)	12243.2	18.2			
FH (60°-80°)	18529.0	27.5			G5
FVH (80°-90°)	384.9	0.6			G3/500
BL (0°-30°)	2521.3	3.7	B4/5000		
BM (30°-60°)	12243.2	18.2	B5		
BH (60°-80°)	18529.0	27.5	B5		G5
BVH (80°-90°)	384.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3
2.5°	6105.8	6123.3	6116.3	6102.3	6102.3	6091.8	6102.3	6109.3	6119.8	6126.8	6123.3
5°	6025.3	6039.3	6035.8	6025.3	6028.8	6018.3	6025.3	6035.8	6042.8	6046.3	6046.3
7.5°	5955.3	5969.3	5962.3	5944.8	5944.8	5934.3	5937.8	5948.3	5958.8	5962.3	5962.3
10°	5937.8	5951.8	5930.8	5902.7	5892.2	5878.2	5881.7	5892.2	5913.2	5923.7	5923.7
12.5°	5944.8	5955.3	5934.3	5892.2	5881.7	5867.7	5867.7	5878.2	5906.2	5920.2	5923.7
15°	5965.8	5976.3	5944.8	5899.2	5888.7	5878.2	5874.7	5888.7	5920.2	5944.8	5948.3
17.5°	6004.3	6014.8	5965.8	5902.7	5888.7	5892.2	5888.7	5899.2	5948.3	5993.8	5993.8
20°	6039.3	6046.3	5979.8	5902.7	5888.7	5892.2	5888.7	5909.7	5972.8	6035.8	6039.3
22.5°	6049.8	6056.8	5993.8	5927.3	5916.7	5920.2	5916.7	5937.8	5997.3	6060.3	6060.3
25°	6053.3	6063.8	6014.8	5962.3	5979.8	5986.8	5979.8	5983.3	6028.8	6084.8	6081.3
27.5°	6105.8	6119.8	6074.3	6028.8	6039.3	6035.8	6046.3	6056.8	6091.8	6147.8	6133.8
30°	6214.3	6224.8	6186.3	6140.8	6133.8	6109.3	6140.8	6175.8	6214.3	6263.3	6252.8
32.5°	6392.9	6413.9	6364.9	6315.9	6284.4	6270.4	6294.9	6354.4	6406.9	6459.4	6438.4
35°	6690.5	6704.5	6659.0	6567.9	6511.9	6511.9	6532.9	6610.0	6694.0	6760.5	6736.0
37.5°	7110.6	7128.1	7047.6	6939.0	6855.0	6855.0	6883.0	6963.6	7089.6	7184.1	7149.1
40°	7621.8	7646.3	7544.7	7432.7	7352.2	7338.2	7373.2	7464.2	7583.2	7702.3	7663.8
42.5°	8237.9	8265.9	8132.9	8034.9	7971.9	7971.9	7989.4	8073.4	8181.9	8329.0	8318.5
45°	9025.7	9074.7	8892.6	8794.6	8735.1	8749.1	8759.6	8833.1	8931.1	9099.2	9092.2
47.5°	9963.9	10013.0	9820.4	9718.9	9708.4	9774.9	9732.9	9785.4	9837.9	10030.5	9974.4
50°	11028.3	11112.3	10979.2	10972.2	10993.2	11115.8	11017.8	11045.8	10986.2	11108.8	11035.3
52.5°	12330.6	12453.2	12428.7	12470.7	12705.3	12957.3	12733.3	12635.2	12411.2	12449.7	12320.1
55°	13909.6	14095.2	14130.2	14382.2	14914.4	15429.1	14952.9	14557.3	14081.2	13993.6	13857.1
57.5°	15705.6	15852.7	16020.7	16535.4	17529.7	18443.4	17529.7	16654.4	15905.2	15726.6	15600.6
60°	17638.2	17820.3	17981.3	18741.0	20218.5	21503.4	20190.5	18800.6	17809.8	17568.2	17358.1
62.5°	19714.3	19948.9	20060.9	20904.7	22627.2	24160.6	22651.7	20967.7	19868.4	19609.3	19399.2
65°	21706.4	21899.0	22025.0	22924.8	24570.3	26107.2	24682.3	23022.8	21892.0	21552.4	21384.3
67.5°	22634.2	22739.2	23047.3	24066.1	25802.6	27556.6	26096.7	24174.6	22910.8	22315.6	22322.6
70°	21275.8	21062.2	21804.4	23435.9	25949.7	28445.9	26285.8	23386.9	21839.4	20873.2	21104.2
72.5°	16440.9	16073.2	17361.6	20152.0	24269.2	27878.7	24437.2	20309.5	18163.4	16202.8	16689.4
75°	8945.1	8528.5	10307.0	13836.1	19353.7	24164.1	19798.3	14231.7	11476.4	8878.6	9456.3
77.5°	2524.2	2366.7	3802.1	6694.0	11640.9	16966.0	12089.1	6841.0	4509.3	2674.8	2972.4
80°	773.7	749.2	1015.3	2016.6	4943.5	8125.9	4750.9	2041.1	1291.9	815.7	861.3
82.5°	458.6	420.1	504.1	735.2	1260.4	2552.3	1225.4	766.7	616.2	413.1	448.1
85°	262.6	245.1	297.6	357.1	423.6	542.7	353.6	364.1	329.1	220.6	231.1
87.5°	108.5	98.0	115.5	112.0	98.0	126.0	94.5	112.0	133.0	87.5	80.5
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)