

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: P884792

Luminaire Tested: **NAV-SB5D-740-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884792  
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-SB5D-740-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

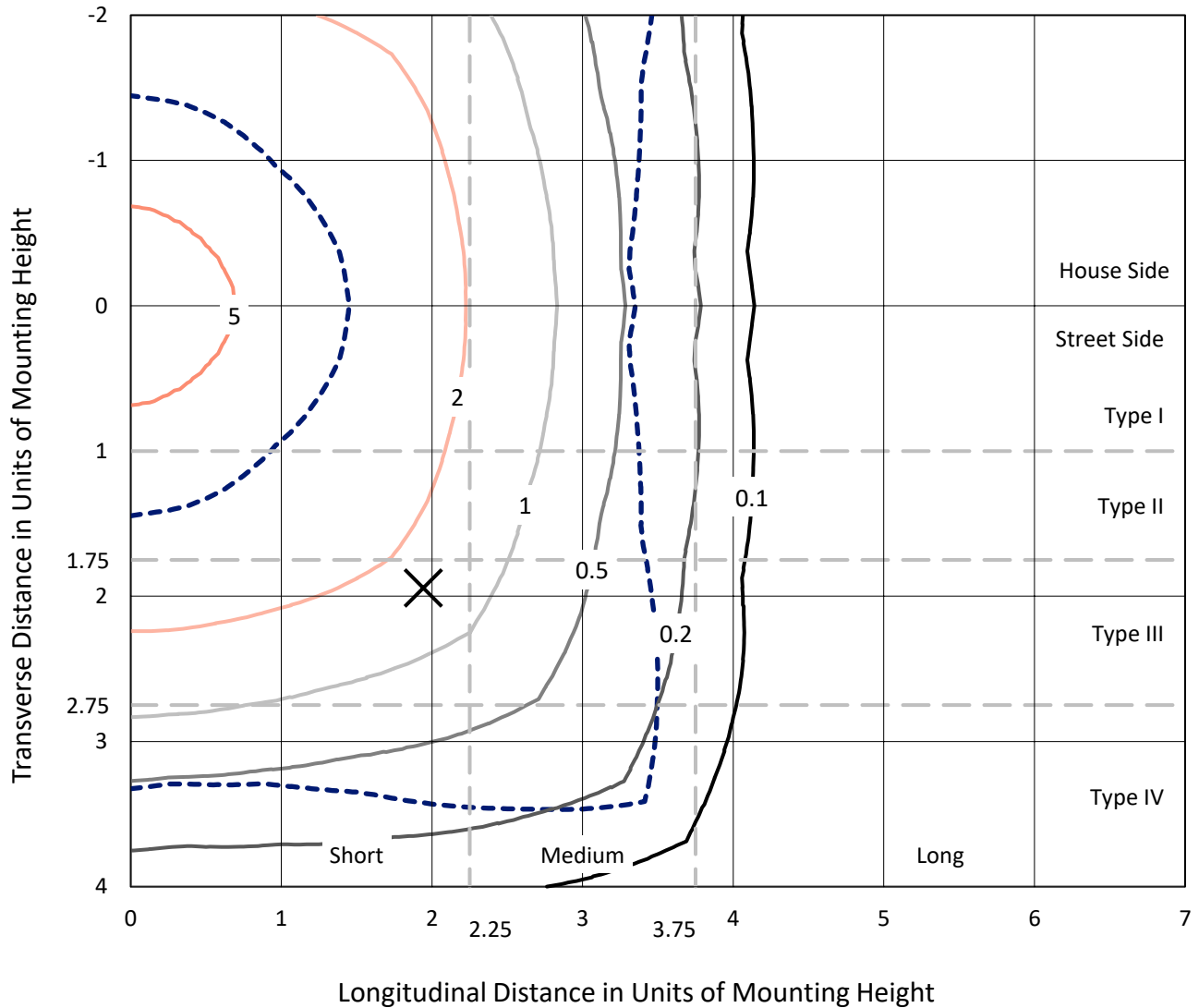
Lumens per Lamp: N/A  
Luminaire Lumens: 56311 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): 120.0  
Input Current (Ain): 3.094  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 3.28  
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

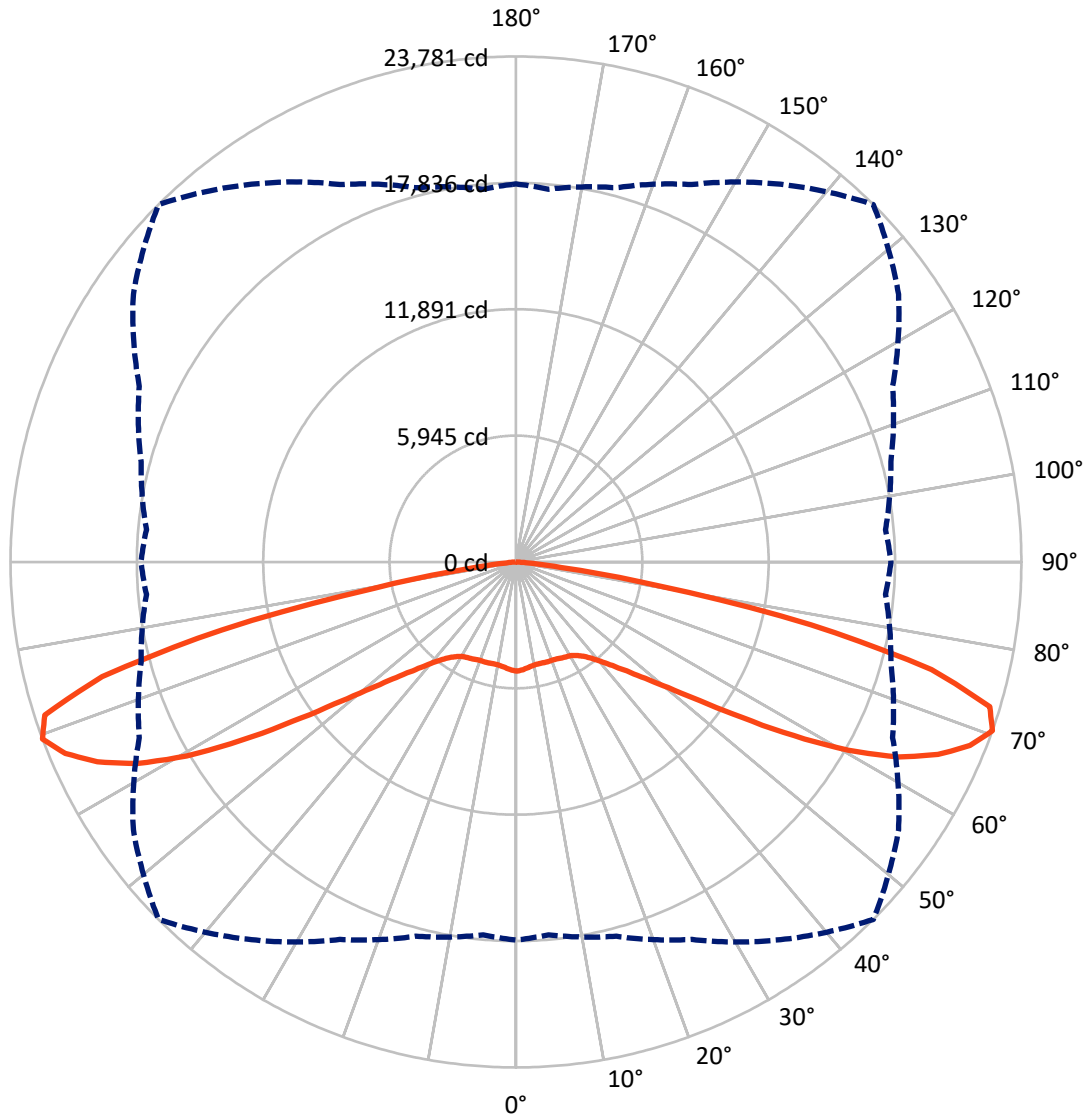
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P884792  
CATALOG NUMBER: NAV-SB5D-740-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: NAV-SB5D-740-U-5WQ

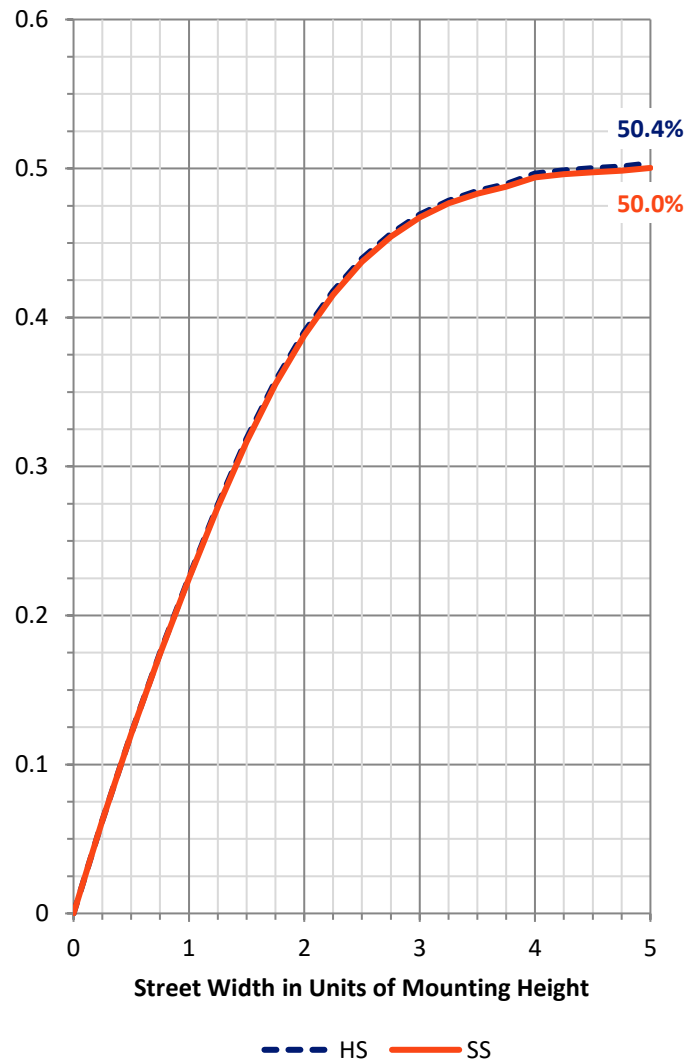
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28155.5	0.0	28155.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28155.5	0.0	28155.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56311.0	0.0	56311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.8	0.8
10°-20°	1403.0	2.5
20°-30°	2334.9	4.1
30°-40°	3531.0	6.3
40°-50°	5867.7	10.4
50°-60°	11072.1	19.7
60°-70°	18695.8	33.2
70°-80°	12285.0	21.8
80°-90°	643.6	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°	56311.0	100.0
0°-180°	56311.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P884792

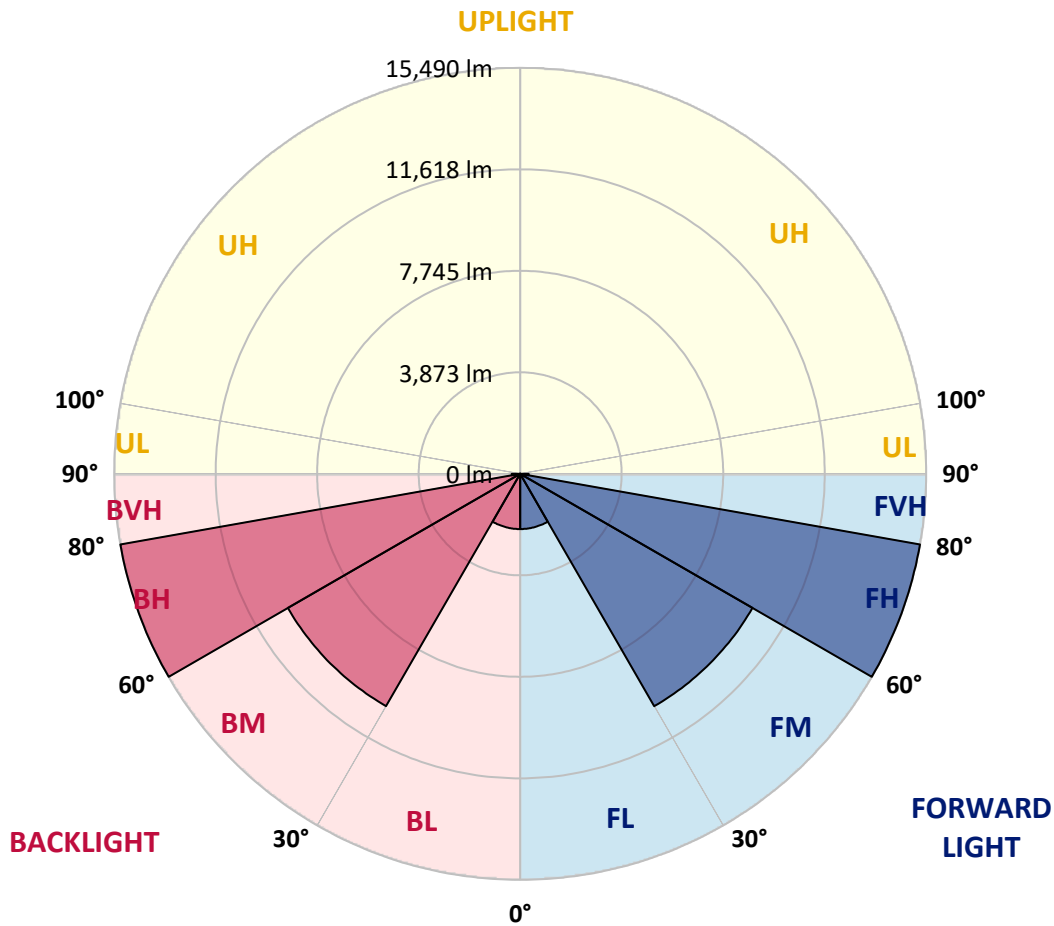
CATALOG NUMBER: NAV-SB5D-740-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.9	3.7			
FM (30°-60°)	10235.4	18.2			
FH (60°-80°)	15490.4	27.5			G5
FVH (80°-90°)	321.8	0.6			G3/500
BL (0°-30°)	2107.9	3.7	B3/2500		
BM (30°-60°)	10235.4	18.2	B5		
BH (60°-80°)	15490.4	27.5	B5		G5
BVH (80°-90°)	321.8	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°	5136.7	5136.7	5136.7	5136.7	5136.7	5136.7	5136.7	5136.7	5136.7	5136.7	5136.7
2.5°	5104.5	5119.1	5113.3	5101.6	5101.6	5092.8	5101.6	5107.4	5116.2	5122.1	5119.1
5°	5037.2	5048.9	5046.0	5037.2	5040.1	5031.3	5037.2	5046.0	5051.8	5054.7	5054.7
7.5°	4978.6	4990.4	4984.5	4969.9	4969.9	4961.1	4964.0	4972.8	4981.6	4984.5	4984.5
10°	4964.0	4975.7	4958.2	4934.7	4926.0	4914.3	4917.2	4926.0	4943.5	4952.3	4952.3
12.5°	4969.9	4978.6	4961.1	4926.0	4917.2	4905.5	4905.5	4914.3	4937.7	4949.4	4952.3
15°	4987.4	4996.2	4969.9	4931.8	4923.0	4914.3	4911.3	4923.0	4949.4	4969.9	4972.8
17.5°	5019.6	5028.4	4987.4	4934.7	4923.0	4926.0	4923.0	4931.8	4972.8	5010.8	5010.8
20°	5048.9	5054.7	4999.1	4934.7	4923.0	4926.0	4923.0	4940.6	4993.3	5046.0	5048.9
22.5°	5057.7	5063.5	5010.8	4955.2	4946.4	4949.4	4946.4	4964.0	5013.8	5066.5	5066.5
25°	5060.6	5069.4	5028.4	4984.5	4999.1	5005.0	4999.1	5002.1	5040.1	5086.9	5084.0
27.5°	5104.5	5116.2	5078.2	5040.1	5048.9	5046.0	5054.7	5063.5	5092.8	5139.6	5127.9
30°	5195.2	5204.0	5171.8	5133.8	5127.9	5107.4	5133.8	5163.0	5195.2	5236.2	5227.4
32.5°	5344.5	5362.1	5321.1	5280.1	5253.8	5242.1	5262.6	5312.3	5356.2	5400.1	5382.6
35°	5593.3	5605.0	5567.0	5490.9	5444.0	5444.0	5461.6	5526.0	5596.2	5651.8	5631.3
37.5°	5944.5	5959.2	5891.8	5801.1	5730.9	5730.9	5754.3	5821.6	5927.0	6006.0	5976.7
40°	6371.8	6392.3	6307.5	6213.8	6146.5	6134.8	6164.0	6240.1	6339.6	6439.2	6407.0
42.5°	6887.0	6910.4	6799.2	6717.2	6664.5	6664.5	6679.2	6749.4	6840.1	6963.1	6954.3
45°	7545.5	7586.5	7434.3	7352.4	7302.6	7314.3	7323.1	7384.6	7466.5	7607.0	7601.1
47.5°	8329.9	8370.9	8209.9	8125.1	8116.3	8171.9	8136.8	8180.7	8224.6	8385.5	8338.7
50°	9219.7	9290.0	9178.7	9172.9	9190.4	9292.9	9210.9	9234.3	9184.6	9287.0	9225.6
52.5°	10308.5	10411.0	10390.5	10425.6	10621.7	10832.4	10645.1	10563.2	10375.8	10408.0	10299.7
55°	11628.5	11783.7	11812.9	12023.7	12468.6	12898.8	12500.8	12170.0	11772.0	11698.8	11584.6
57.5°	13130.0	13253.0	13393.5	13823.7	14655.0	15418.9	14655.0	13923.2	13296.9	13147.6	13042.2
60°	14745.7	14897.9	15032.5	15667.7	16902.8	17977.0	16879.4	15717.4	14889.1	14687.1	14511.5
62.5°	16481.3	16677.4	16771.1	17476.5	18916.5	20198.5	18937.0	17529.2	16610.1	16393.5	16217.9
65°	18146.7	18307.7	18413.1	19165.3	20540.9	21825.8	20634.6	19247.2	18301.9	18018.0	17877.5
67.5°	18922.4	19010.2	19267.7	20119.5	21571.2	23037.6	21817.1	20210.2	19153.6	18656.0	18661.9
70°	17786.7	17608.2	18228.7	19592.6	21694.1	23781.0	21975.1	19551.6	18258.0	17450.1	17643.3
72.5°	13744.7	13437.4	14514.5	16847.2	20289.2	23306.8	20429.7	16978.9	15184.7	13545.7	13952.5
75°	7478.2	7129.9	8616.8	11567.1	16179.9	20201.4	16551.6	11897.8	9594.4	7422.6	7905.5
77.5°	2110.3	1978.6	3178.6	5596.2	9731.9	14183.7	10106.6	5719.1	3769.8	2236.1	2484.9
80°	646.8	626.4	848.8	1685.9	4132.8	6793.3	3971.8	1706.4	1080.0	682.0	720.0
82.5°	383.4	351.2	421.5	614.6	1053.7	2133.7	1024.4	641.0	515.1	345.4	374.6
85°	219.5	204.9	248.8	298.5	354.2	453.7	295.6	304.4	275.1	184.4	193.2
87.5°	90.7	82.0	96.6	93.7	82.0	105.4	79.0	93.7	111.2	73.2	67.3
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)