

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: P885452

Luminaire Tested: **NAV-SB6D-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885452
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 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: 61500 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

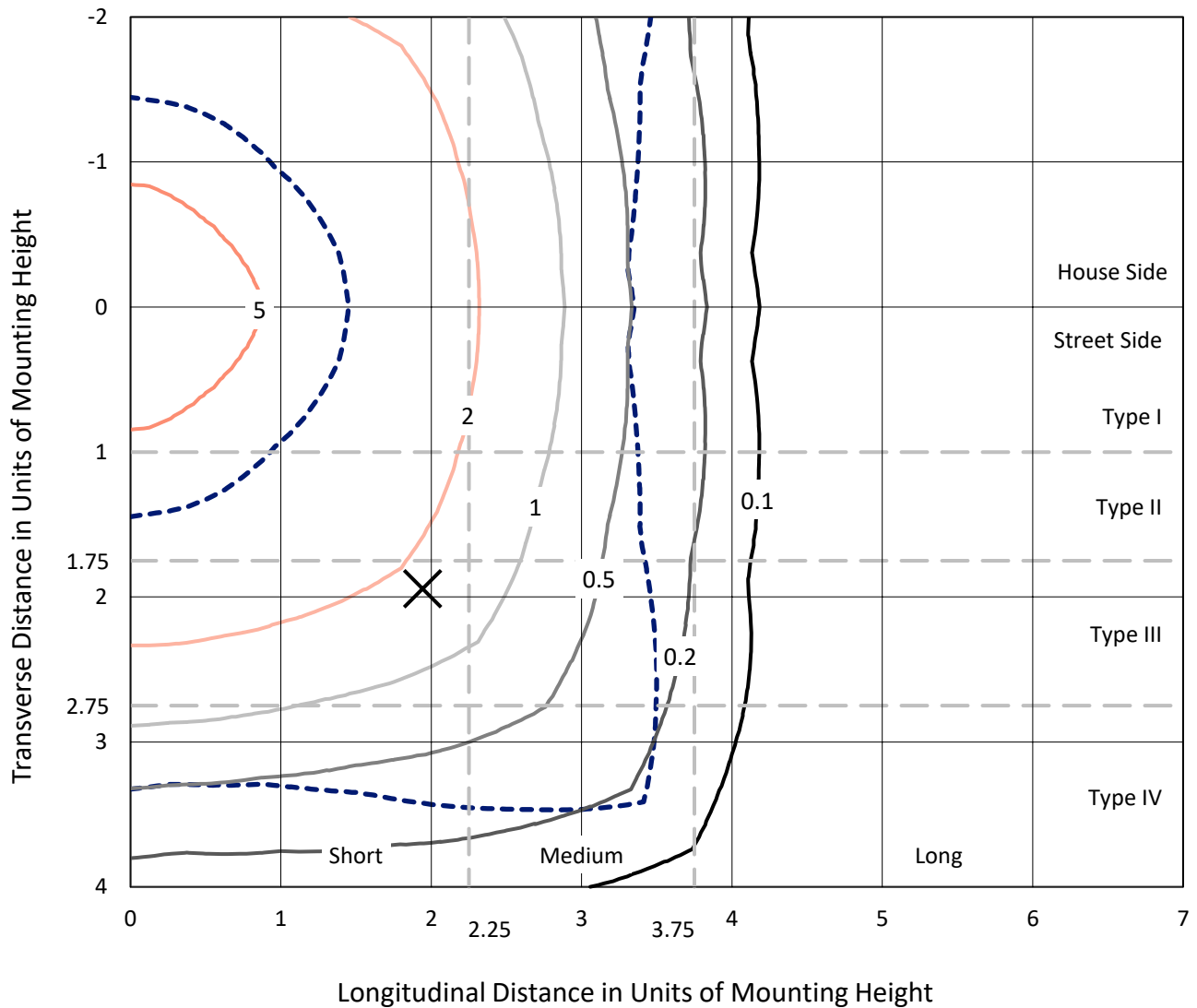
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

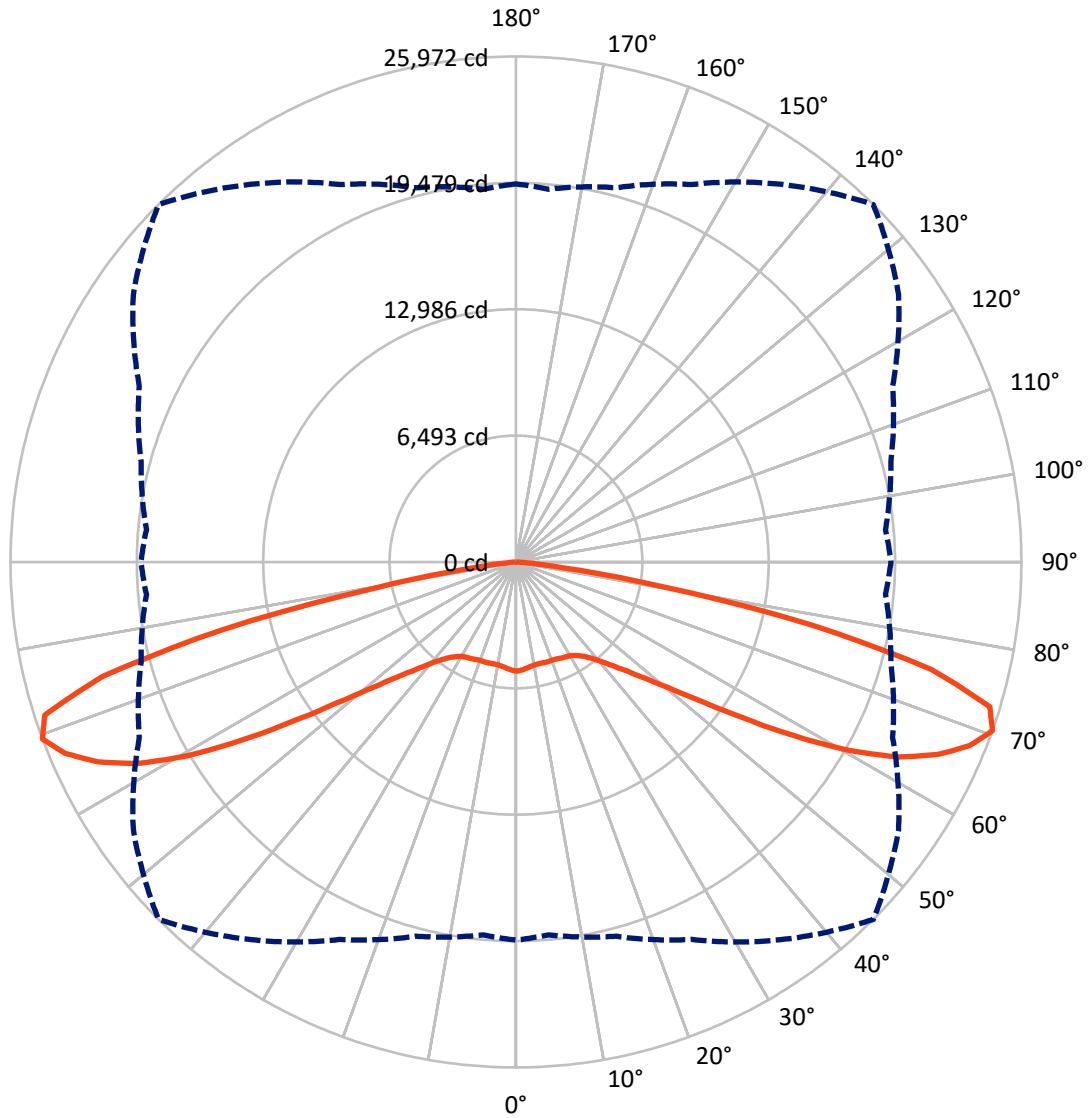
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	30750.0	0.0	30750.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30750.0	0.0	30750.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	61500.0	0.0	61500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.9	0.8
10°-20°	1532.3	2.5
20°-30°	2550.0	4.1
30°-40°	3856.4	6.3
40°-50°	6408.4	10.4
50°-60°	12092.4	19.7
60°-70°	20418.6	33.2
70°-80°	13417.1	21.8
80°-90°	702.9	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°	61500.0	100.0
0°-180°	61500.0	100.0

Coefficient of Utilization



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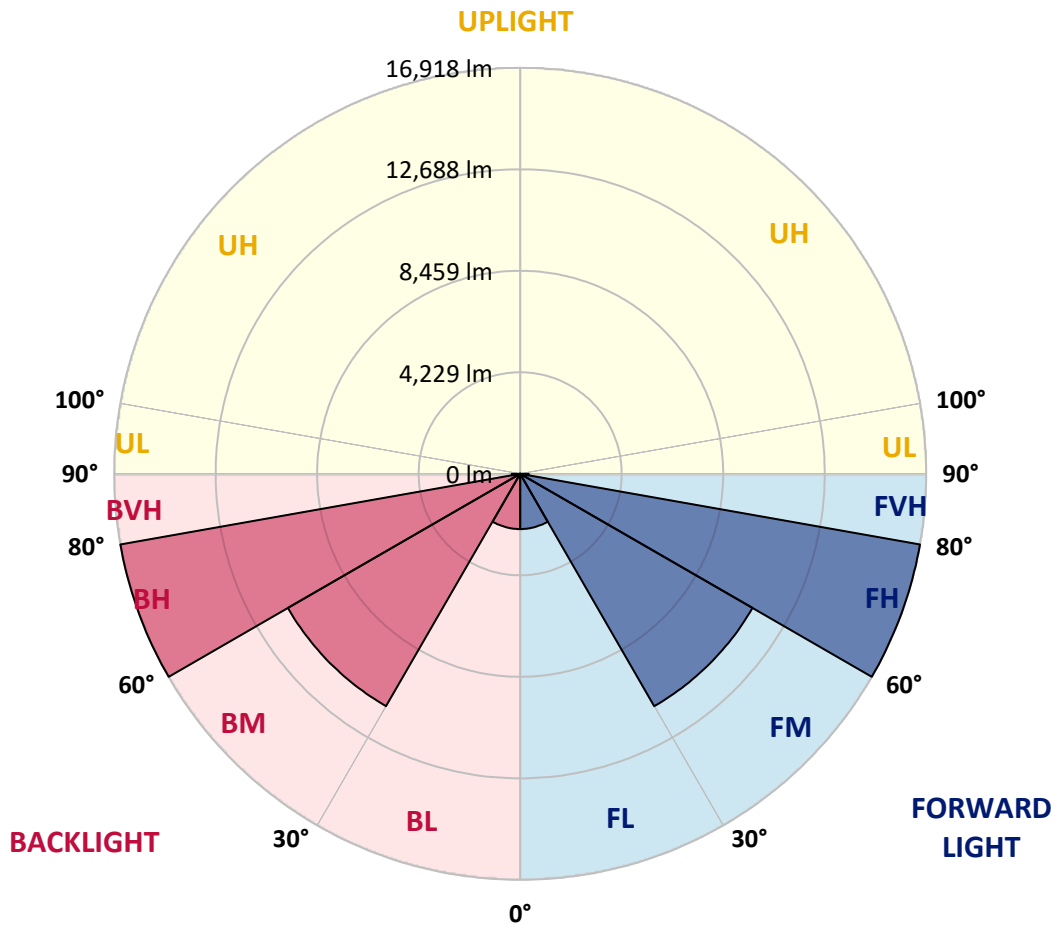
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2302.1	3.7			
FM (30°-60°)	11178.6	18.2			
FH (60°-80°)	16917.8	27.5			G5
FVH (80°-90°)	351.5	0.6			G3/500
BL (0°-30°)	2302.1	3.7	B3/2500		
BM (30°-60°)	11178.6	18.2	B5		
BH (60°-80°)	16917.8	27.5	B5		G5
BVH (80°-90°)	351.5	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°	5610.0	5610.0	5610.0	5610.0	5610.0	5610.0	5610.0	5610.0	5610.0	5610.0	5610.0
2.5°	5574.9	5590.9	5584.5	5571.7	5571.7	5562.1	5571.7	5578.1	5587.7	5594.1	5590.9
5°	5501.4	5514.1	5510.9	5501.4	5504.6	5495.0	5501.4	5510.9	5517.3	5520.5	5520.5
7.5°	5437.4	5450.2	5443.8	5427.8	5427.8	5418.2	5421.4	5431.0	5440.6	5443.8	5443.8
10°	5421.4	5434.2	5415.0	5389.5	5379.9	5367.1	5370.3	5379.9	5399.1	5408.7	5408.7
12.5°	5427.8	5437.4	5418.2	5379.9	5370.3	5357.5	5357.5	5367.1	5392.7	5405.5	5408.7
15°	5447.0	5456.6	5427.8	5386.3	5376.7	5367.1	5363.9	5376.7	5405.5	5427.8	5431.0
17.5°	5482.2	5491.8	5447.0	5389.5	5376.7	5379.9	5376.7	5386.3	5431.0	5472.6	5472.6
20°	5514.1	5520.5	5459.8	5389.5	5376.7	5379.9	5376.7	5395.9	5453.4	5510.9	5514.1
22.5°	5523.7	5530.1	5472.6	5411.8	5402.3	5405.5	5402.3	5421.4	5475.8	5533.3	5533.3
25°	5526.9	5536.5	5491.8	5443.8	5459.8	5466.2	5459.8	5463.0	5504.6	5555.7	5552.5
27.5°	5574.9	5587.7	5546.1	5504.6	5514.1	5510.9	5520.5	5530.1	5562.1	5613.2	5600.4
30°	5674.0	5683.6	5648.4	5606.8	5600.4	5578.1	5606.8	5638.8	5674.0	5718.7	5709.1
32.5°	5837.0	5856.2	5811.4	5766.7	5737.9	5725.1	5747.5	5801.8	5849.8	5897.7	5878.6
35°	6108.7	6121.5	6079.9	5996.8	5945.7	5945.7	5964.9	6035.2	6111.9	6172.6	6150.3
37.5°	6492.3	6508.3	6434.8	6335.7	6258.9	6258.9	6284.5	6358.0	6473.1	6559.4	6527.5
40°	6959.0	6981.4	6888.7	6786.4	6712.9	6700.1	6732.0	6815.2	6923.8	7032.5	6997.4
42.5°	7521.6	7547.2	7425.7	7336.2	7278.7	7278.7	7294.6	7371.4	7470.5	7604.7	7595.1
45°	8240.8	8285.6	8119.4	8029.9	7975.5	7988.3	7997.9	8065.0	8154.5	8308.0	8301.6
47.5°	9097.5	9142.3	8966.5	8873.8	8864.2	8924.9	8886.6	8934.5	8982.5	9158.3	9107.1
50°	10069.3	10146.0	10024.5	10018.2	10037.3	10149.2	10059.7	10085.3	10030.9	10142.8	10075.7
52.5°	11258.4	11370.3	11347.9	11386.3	11600.5	11830.6	11626.0	11536.5	11332.0	11367.1	11248.8
55°	12700.1	12869.5	12901.5	13131.6	13617.5	14087.4	13652.7	13291.5	12856.7	12776.8	12652.2
57.5°	14340.0	14474.2	14627.7	15097.6	16005.4	16839.7	16005.4	15206.2	14522.2	14359.1	14244.1
60°	16104.5	16270.7	16417.8	17111.4	18460.4	19633.5	18434.8	17165.8	16261.1	16040.6	15848.8
62.5°	18000.1	18214.2	18316.5	19086.9	20659.6	22059.8	20682.0	19144.5	18140.7	17904.2	17712.4
65°	19818.9	19994.8	20109.8	20931.4	22433.8	23837.1	22536.1	21020.9	19988.4	19678.3	19524.9
67.5°	20666.0	20761.9	21043.2	21973.4	23559.0	25160.5	23827.5	22072.5	20918.6	20375.1	20381.5
70°	19425.8	19230.8	19908.4	21398.1	23693.2	25972.4	24000.1	21353.3	19940.4	19058.1	19269.1
72.5°	15011.2	14675.6	15852.0	18399.6	22158.9	25454.5	22312.3	18543.5	16584.0	14793.9	15238.2
75°	8167.3	7786.9	9410.8	12633.0	17670.8	22063.0	18076.8	12994.2	10478.5	8106.6	8634.0
77.5°	2304.8	2160.9	3471.5	6111.9	10628.7	15490.7	11037.9	6246.2	4117.2	2442.2	2713.9
80°	706.4	684.1	927.0	1841.2	4513.6	7419.3	4337.8	1863.6	1179.5	744.8	786.4
82.5°	418.8	383.6	460.3	671.3	1150.8	2330.3	1118.8	700.1	562.6	377.2	409.2
85°	239.7	223.8	271.7	326.1	386.8	495.5	322.9	332.4	300.5	201.4	211.0
87.5°	99.1	89.5	105.5	102.3	89.5	115.1	86.3	102.3	121.5	79.9	73.5
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)