

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: P884772

Luminaire Tested: **NAV-SB5D-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884772
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 51415 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

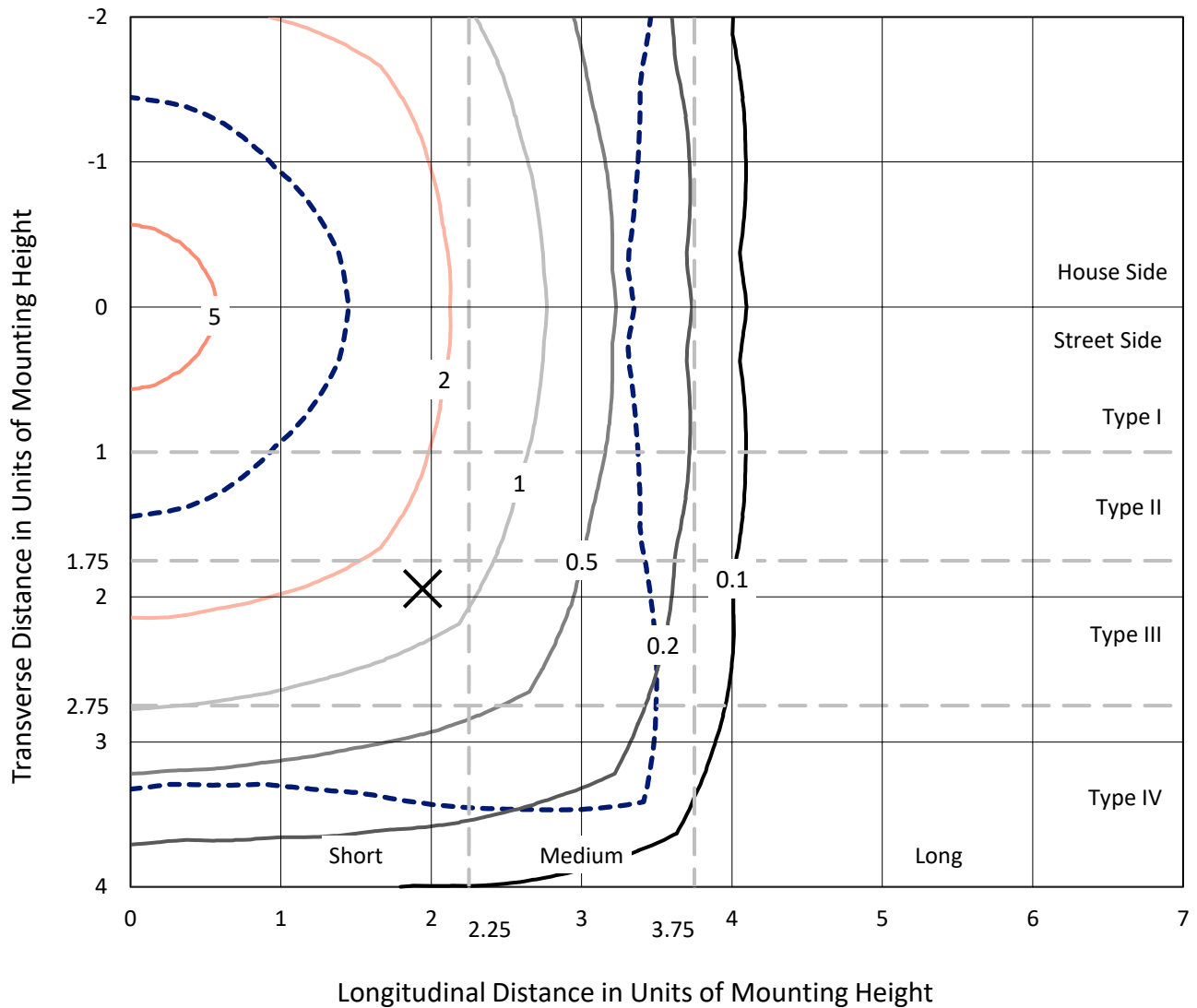
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

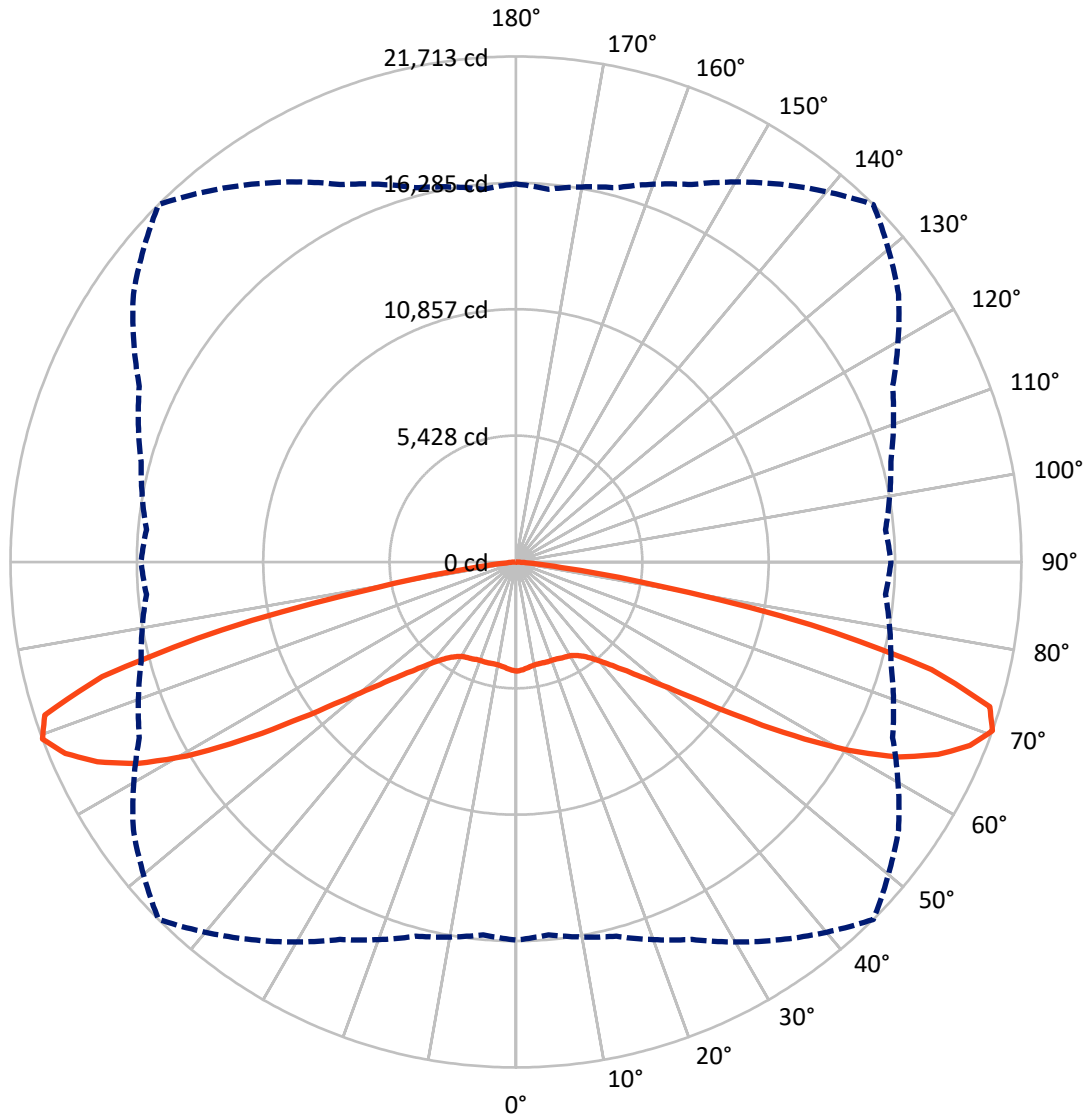
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	25707.5	0.0	25707.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25707.5	0.0	25707.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51415.0	0.0	51415.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	0.8
10°-20°	1281.1	2.5
20°-30°	2131.9	4.1
30°-40°	3224.0	6.3
40°-50°	5357.5	10.4
50°-60°	10109.5	19.7
60°-70°	17070.2	33.2
70°-80°	11216.9	21.8
80°-90°	587.7	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°	51415.0	100.0
0°-180°	51415.0	100.0



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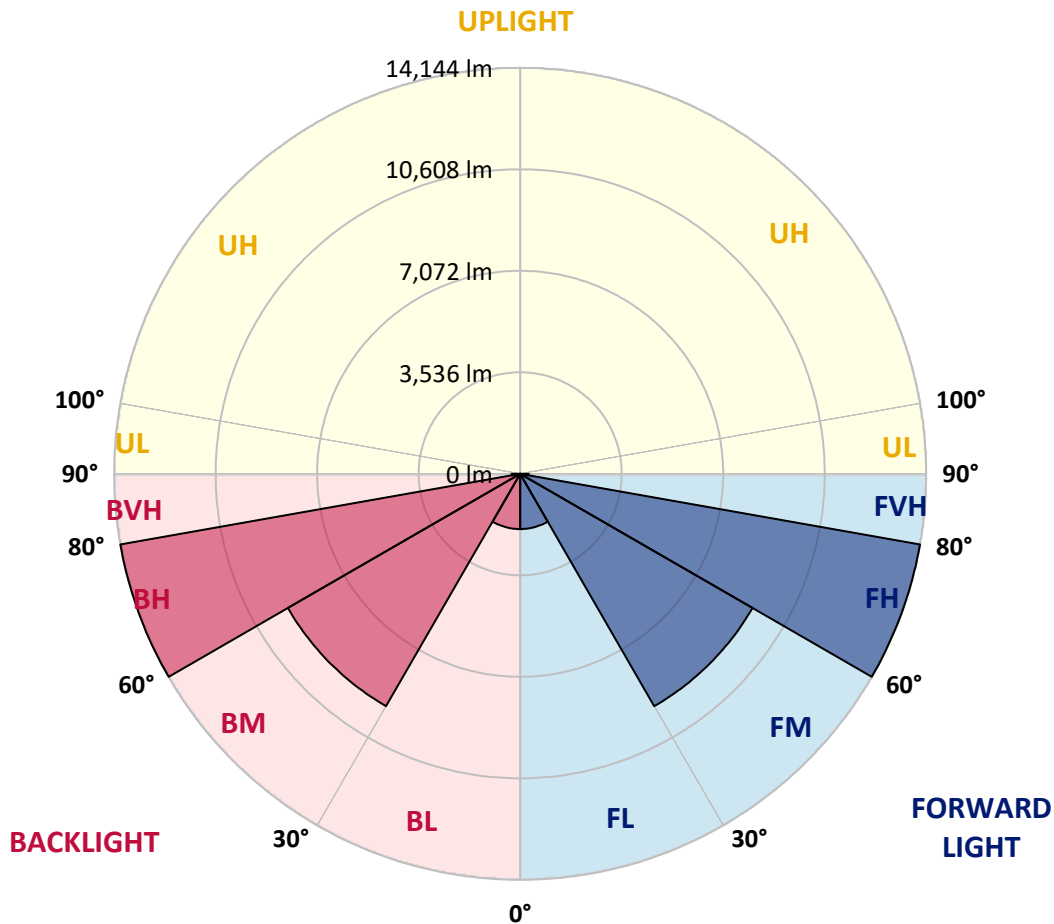
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1924.6	3.7			
FM (30°-60°)	9345.5	18.2			
FH (60°-80°)	14143.6	27.5			G5
FVH (80°-90°)	293.8	0.6			G3/500
BL (0°-30°)	1924.6	3.7	B3/2500		
BM (30°-60°)	9345.5	18.2	B5		
BH (60°-80°)	14143.6	27.5	B5		G5
BVH (80°-90°)	293.8	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°	4690.1	4690.1	4690.1	4690.1	4690.1	4690.1	4690.1	4690.1	4690.1	4690.1	4690.1
2.5°	4660.7	4674.0	4668.7	4658.0	4658.0	4650.0	4658.0	4663.4	4671.4	4676.7	4674.0
5°	4599.2	4609.9	4607.2	4599.2	4601.9	4593.9	4599.2	4607.2	4612.6	4615.3	4615.3
7.5°	4545.8	4556.5	4551.1	4537.8	4537.8	4529.7	4532.4	4540.4	4548.4	4551.1	4551.1
10°	4532.4	4543.1	4527.1	4505.7	4497.7	4487.0	4489.7	4497.7	4513.7	4521.7	4521.7
12.5°	4537.8	4545.8	4529.7	4497.7	4489.7	4479.0	4479.0	4487.0	4508.4	4519.0	4521.7
15°	4553.8	4561.8	4537.8	4503.0	4495.0	4487.0	4484.3	4495.0	4519.0	4537.8	4540.4
17.5°	4583.2	4591.2	4553.8	4505.7	4495.0	4497.7	4495.0	4503.0	4540.4	4575.2	4575.2
20°	4609.9	4615.3	4564.5	4505.7	4495.0	4497.7	4495.0	4511.0	4559.1	4607.2	4609.9
22.5°	4617.9	4623.3	4575.2	4524.4	4516.4	4519.0	4516.4	4532.4	4577.8	4625.9	4625.9
25°	4620.6	4628.6	4591.2	4551.1	4564.5	4569.8	4564.5	4567.2	4601.9	4644.7	4642.0
27.5°	4660.7	4671.4	4636.6	4601.9	4609.9	4607.2	4615.3	4623.3	4650.0	4692.8	4682.1
30°	4743.5	4751.5	4722.2	4687.4	4682.1	4663.4	4687.4	4714.1	4743.5	4780.9	4772.9
32.5°	4879.8	4895.9	4858.4	4821.0	4797.0	4786.3	4805.0	4850.4	4890.5	4930.6	4914.6
35°	5107.0	5117.7	5082.9	5013.4	4970.7	4970.7	4986.7	5045.5	5109.7	5160.4	5141.7
37.5°	5427.7	5441.0	5379.6	5296.7	5232.6	5232.6	5254.0	5315.4	5411.6	5483.8	5457.1
40°	5817.8	5836.5	5759.0	5673.5	5612.1	5601.4	5628.1	5697.6	5788.4	5879.3	5849.9
42.5°	6288.2	6309.6	6208.0	6133.2	6085.1	6085.1	6098.4	6162.6	6245.4	6357.7	6349.7
45°	6889.5	6926.9	6787.9	6713.1	6667.7	6678.4	6686.4	6742.5	6817.3	6945.6	6940.3
47.5°	7605.7	7643.1	7496.1	7418.6	7410.6	7461.4	7429.3	7469.4	7509.5	7656.5	7613.7
50°	8418.1	8482.2	8380.7	8375.3	8391.4	8484.9	8410.1	8431.5	8386.0	8479.6	8423.4
52.5°	9412.2	9505.8	9487.1	9519.1	9698.2	9890.6	9719.6	9644.7	9473.7	9503.1	9404.2
55°	10617.5	10759.1	10785.9	10978.3	11384.5	11777.3	11413.9	11111.9	10748.4	10681.6	10577.4
57.5°	11988.4	12100.7	12229.0	12621.8	13380.8	14078.3	13380.8	12712.7	12140.8	12004.5	11908.3
60°	13463.6	13602.6	13725.5	14305.4	15433.2	16414.0	15411.8	14350.9	13594.6	13410.2	13249.8
62.5°	15048.4	15227.4	15312.9	15957.0	17271.8	18442.3	17290.5	16005.1	15165.9	14968.2	14807.8
65°	16569.0	16715.9	16812.1	17499.0	18755.0	19928.2	18840.5	17573.8	16710.6	16451.4	16323.1
67.5°	17277.1	17357.3	17592.5	18370.2	19695.7	21034.6	19920.2	18453.0	17488.3	17034.0	17039.3
70°	16240.2	16077.2	16643.8	17889.1	19807.9	21713.3	20064.5	17851.7	16670.5	15932.9	16109.3
72.5°	12549.6	12269.0	13252.5	15382.4	18525.2	21280.4	18653.4	15502.7	13864.5	12367.9	12739.4
75°	6828.0	6510.0	7867.6	10561.4	14773.1	18445.0	15112.5	10863.4	8760.2	6777.2	7218.2
77.5°	1926.8	1806.6	2902.2	5109.7	8885.8	12950.5	9227.8	5221.9	3442.1	2041.7	2268.9
80°	590.6	571.9	775.0	1539.3	3773.4	6202.7	3626.5	1558.0	986.1	622.7	657.4
82.5°	350.1	320.7	384.8	561.2	962.1	1948.2	935.3	585.3	470.3	315.3	342.1
85°	200.4	187.1	227.2	272.6	323.4	414.2	269.9	277.9	251.2	168.4	176.4
87.5°	82.8	74.8	88.2	85.5	74.8	96.2	72.2	85.5	101.6	66.8	61.5
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)