

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: P884092

Luminaire Tested: **NAV-SB4D-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884092
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-SB4D-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 41063 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

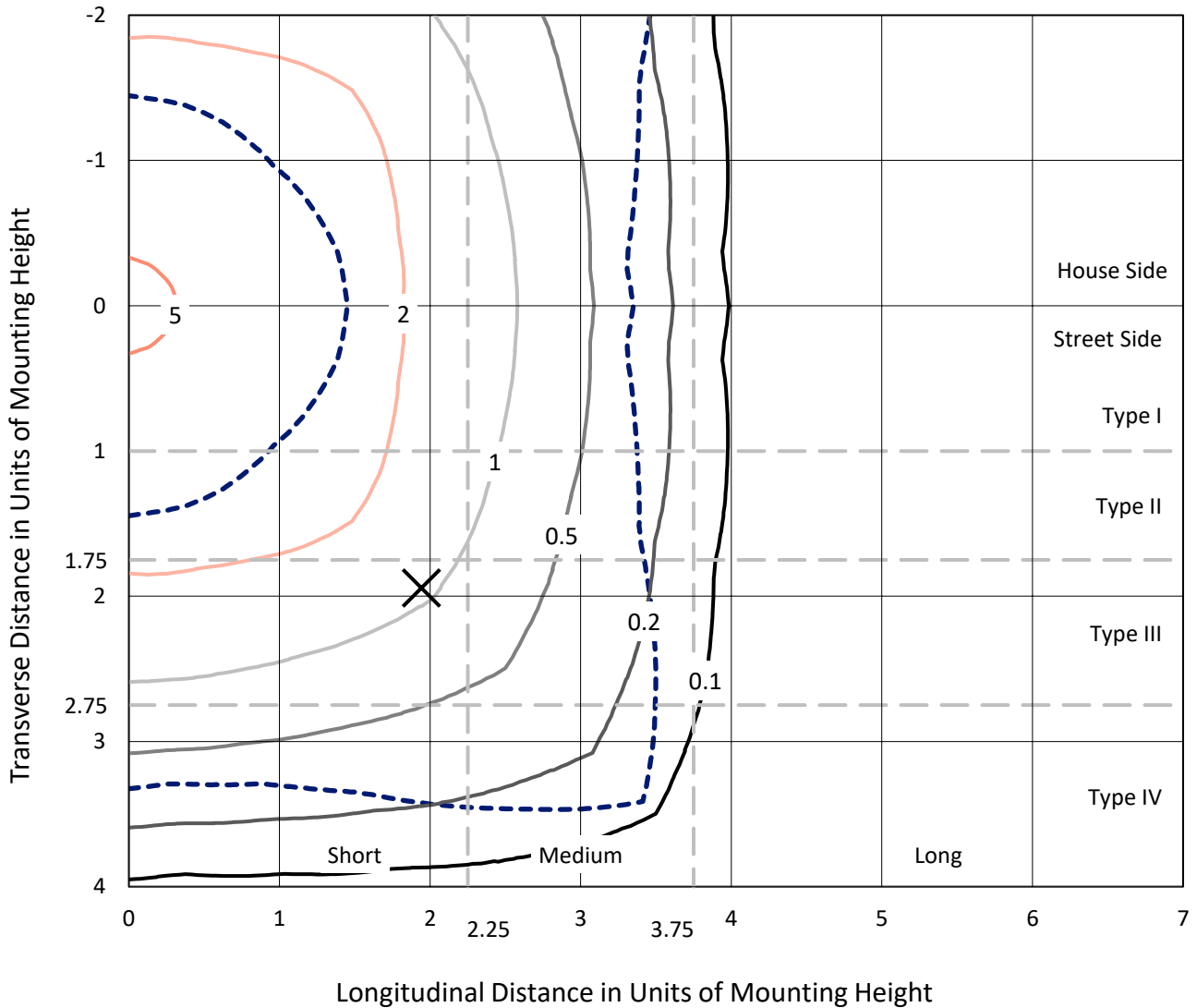
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

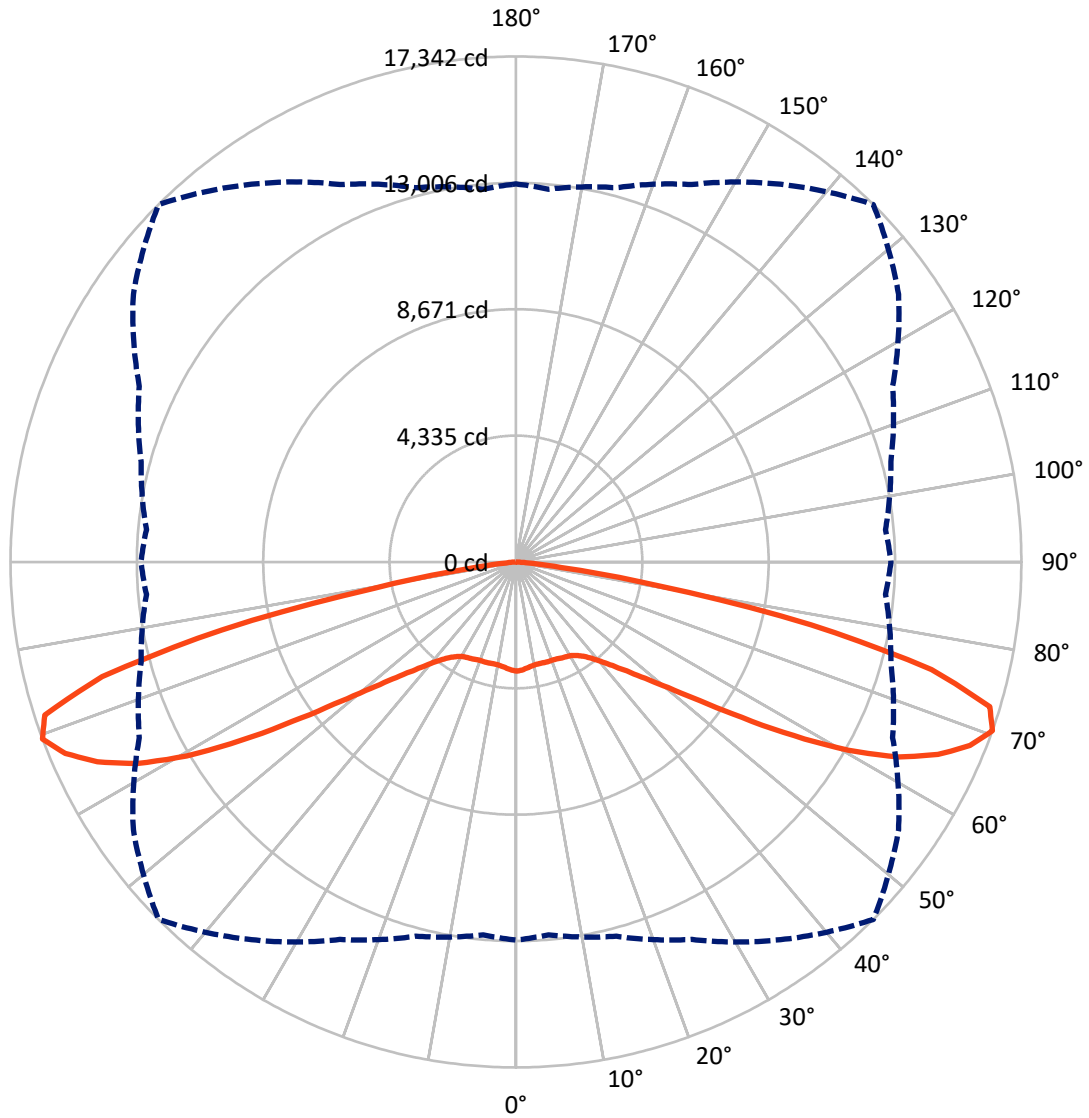
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	20531.5	0.0	20531.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20531.5	0.0	20531.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41063.0	0.0	41063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	0.8
10°-20°	1023.1	2.5
20°-30°	1702.6	4.1
30°-40°	2574.9	6.3
40°-50°	4278.8	10.4
50°-60°	8074.0	19.7
60°-70°	13633.3	33.2
70°-80°	8958.5	21.8
80°-90°	469.3	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°	41063.0	100.0
0°-180°	41063.0	100.0

Coefficient of Utilization



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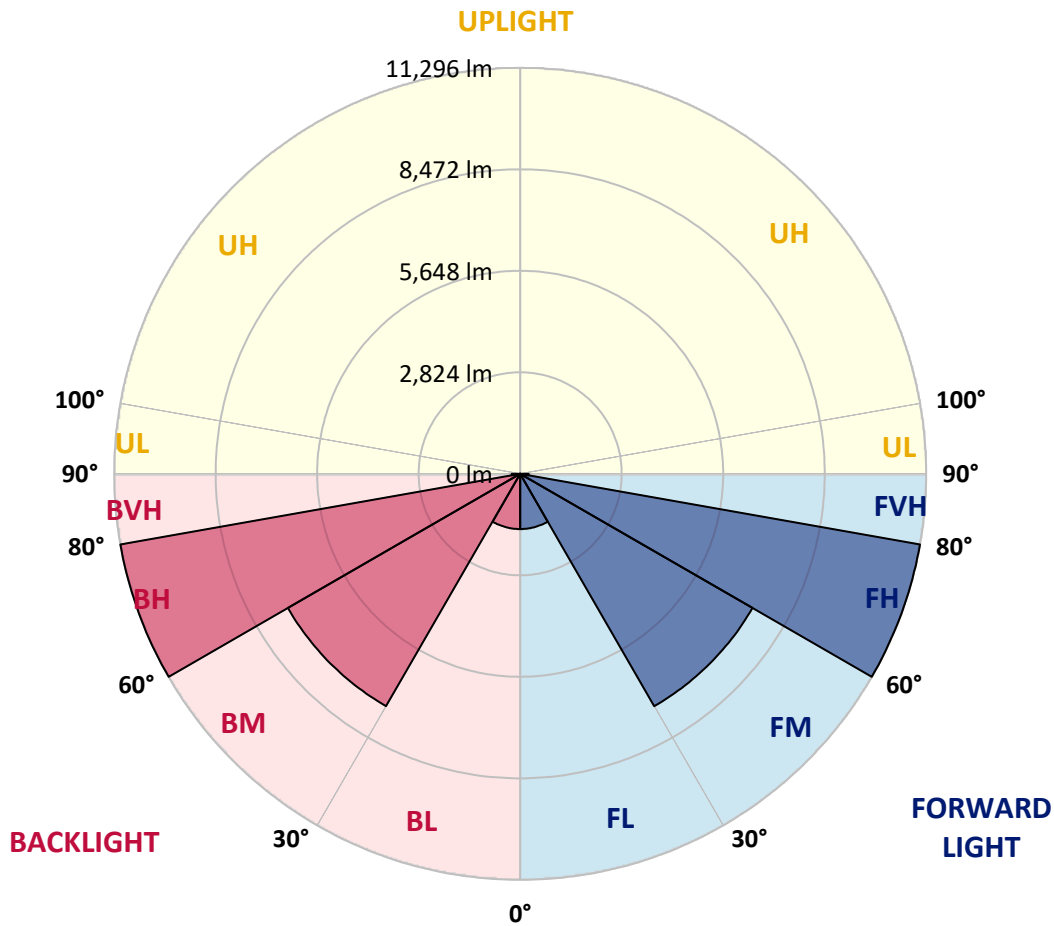
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.1	3.7			
FM (30°-60°)	7463.9	18.2			
FH (60°-80°)	11295.9	27.5			G4/12000
FVH (80°-90°)	234.7	0.6			G3/500
BL (0°-30°)	1537.1	3.7	B3/2500		
BM (30°-60°)	7463.9	18.2	B4/8500		
BH (60°-80°)	11295.9	27.5	B5		G4/12000
BVH (80°-90°)	234.7	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3745.8	3745.8	3745.8	3745.8	3745.8	3745.8	3745.8	3745.8	3745.8	3745.8	3745.8
2.5°	3722.3	3733.0	3728.7	3720.2	3720.2	3713.8	3720.2	3724.4	3730.8	3735.1	3733.0
5°	3673.2	3681.7	3679.6	3673.2	3675.3	3668.9	3673.2	3679.6	3683.9	3686.0	3686.0
7.5°	3630.5	3639.1	3634.8	3624.1	3624.1	3617.7	3619.8	3626.2	3632.7	3634.8	3634.8
10°	3619.8	3628.4	3615.6	3598.5	3592.1	3583.6	3585.7	3592.1	3604.9	3611.3	3611.3
12.5°	3624.1	3630.5	3617.7	3592.1	3585.7	3577.2	3577.2	3583.6	3600.6	3609.2	3611.3
15°	3636.9	3643.3	3624.1	3596.4	3590.0	3583.6	3581.4	3590.0	3609.2	3624.1	3626.2
17.5°	3660.4	3666.8	3636.9	3598.5	3590.0	3592.1	3590.0	3596.4	3626.2	3654.0	3654.0
20°	3681.7	3686.0	3645.5	3598.5	3590.0	3592.1	3590.0	3602.8	3641.2	3679.6	3681.7
22.5°	3688.1	3692.4	3654.0	3613.4	3607.0	3609.2	3607.0	3619.8	3656.1	3694.5	3694.5
25°	3690.3	3696.7	3666.8	3634.8	3645.5	3649.7	3645.5	3647.6	3675.3	3709.5	3707.4
27.5°	3722.3	3730.8	3703.1	3675.3	3681.7	3679.6	3686.0	3692.4	3713.8	3747.9	3739.4
30°	3788.5	3794.9	3771.4	3743.6	3739.4	3724.4	3743.6	3765.0	3788.5	3818.3	3811.9
32.5°	3897.3	3910.1	3880.2	3850.4	3831.1	3822.6	3837.5	3873.8	3905.8	3937.9	3925.1
35°	4078.7	4087.3	4059.5	4004.0	3969.9	3969.9	3982.7	4029.6	4080.9	4121.4	4106.5
37.5°	4334.9	4345.5	4296.4	4230.3	4179.0	4179.0	4196.1	4245.2	4322.0	4379.7	4358.3
40°	4646.5	4661.4	4599.5	4531.2	4482.1	4473.6	4494.9	4550.4	4623.0	4695.6	4672.1
42.5°	5022.1	5039.2	4958.1	4898.3	4859.9	4859.9	4870.6	4921.8	4988.0	5077.6	5071.2
45°	5502.3	5532.2	5421.2	5361.5	5325.2	5333.7	5340.1	5384.9	5444.7	5547.2	5542.9
47.5°	6074.3	6104.2	5986.8	5924.9	5918.5	5959.1	5933.5	5965.5	5997.5	6114.9	6080.7
50°	6723.2	6774.4	6693.3	6689.0	6701.8	6776.5	6716.8	6733.9	6697.6	6772.3	6727.4
52.5°	7517.2	7591.9	7576.9	7602.5	7745.5	7899.2	7762.6	7702.8	7566.2	7589.7	7510.8
55°	8479.7	8592.9	8614.2	8767.9	9092.3	9406.1	9115.8	8874.6	8584.3	8531.0	8447.7
57.5°	9574.7	9664.3	9766.8	10080.5	10686.7	11243.7	10686.7	10153.1	9696.3	9587.5	9510.6
60°	10752.8	10863.8	10962.0	11425.1	12325.8	13109.1	12308.8	11461.4	10857.4	10710.1	10582.1
62.5°	12018.5	12161.5	12229.8	12744.2	13794.3	14729.1	13809.2	12782.6	12112.4	11954.5	11826.4
65°	13232.9	13350.3	13427.2	13975.7	14978.8	15915.8	15047.1	14035.4	13346.0	13139.0	13036.6
67.5°	13798.5	13862.6	14050.4	14671.5	15730.1	16799.4	15909.4	14737.6	13967.1	13604.3	13608.6
70°	12970.4	12840.2	13292.7	14287.3	15819.8	17341.5	16024.6	14257.4	13314.0	12725.0	12865.8
72.5°	10022.9	9798.8	10584.2	12285.3	14795.3	16995.8	14897.7	12381.3	11073.0	9877.7	10174.4
75°	5453.2	5199.3	6283.5	8434.9	11798.6	14731.2	12069.7	8676.1	6996.4	5412.7	5764.9
77.5°	1538.9	1442.8	2317.9	4080.9	7096.7	10343.0	7369.9	4170.5	2749.0	1630.6	1812.1
80°	471.7	456.7	619.0	1229.4	3013.7	4953.8	2896.3	1244.3	787.6	497.3	525.0
82.5°	279.6	256.1	307.3	448.2	768.4	1555.9	747.0	467.4	375.6	251.9	273.2
85°	160.1	149.4	181.4	217.7	258.3	330.8	215.6	222.0	200.6	134.5	140.9
87.5°	66.2	59.8	70.4	68.3	59.8	76.8	57.6	68.3	81.1	53.4	49.1
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)