

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: P971556

Luminaire Tested: **NAV-SB6D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59519.7 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

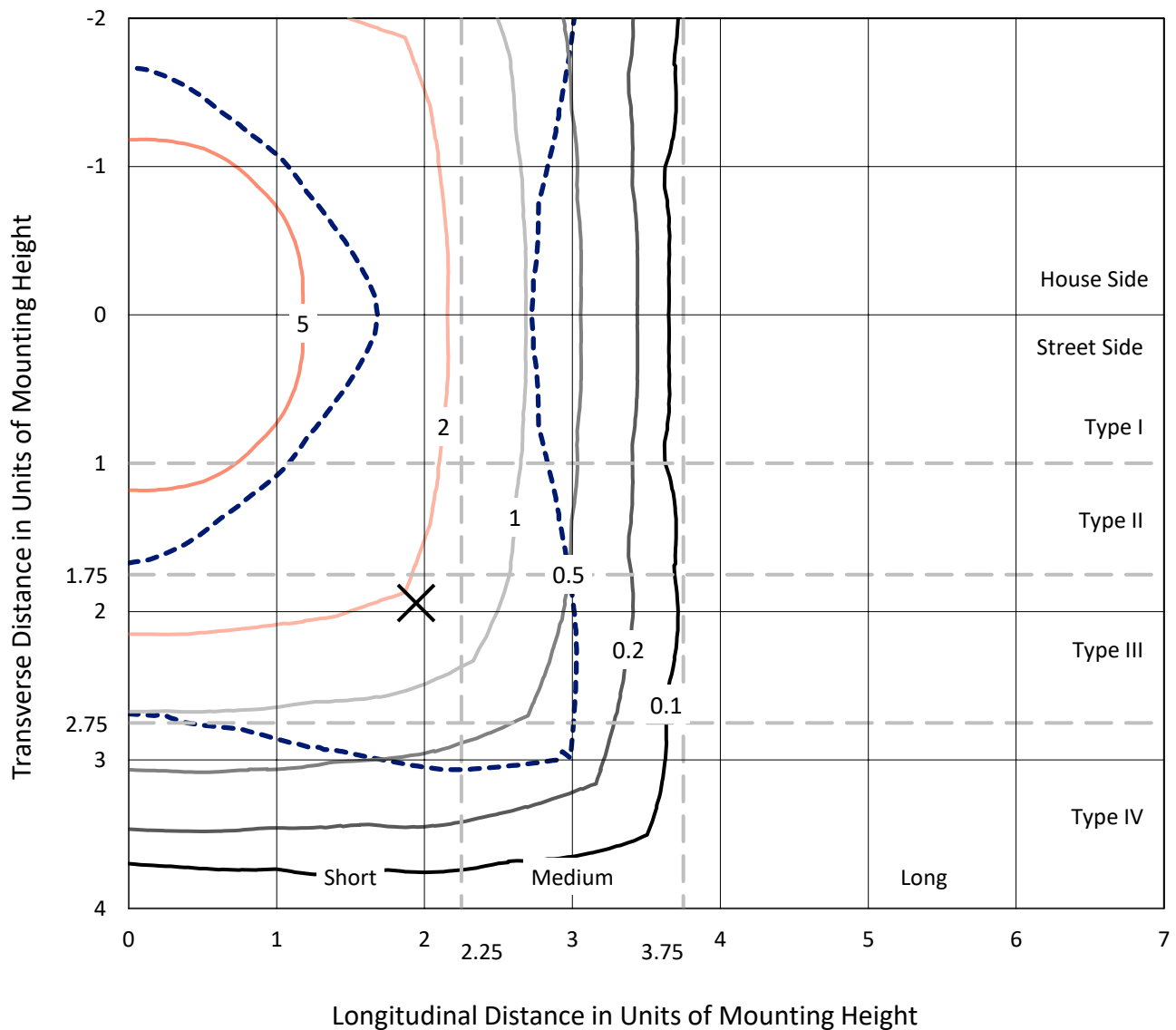


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Iso-Footcandle Lines of Horizontal Illumination

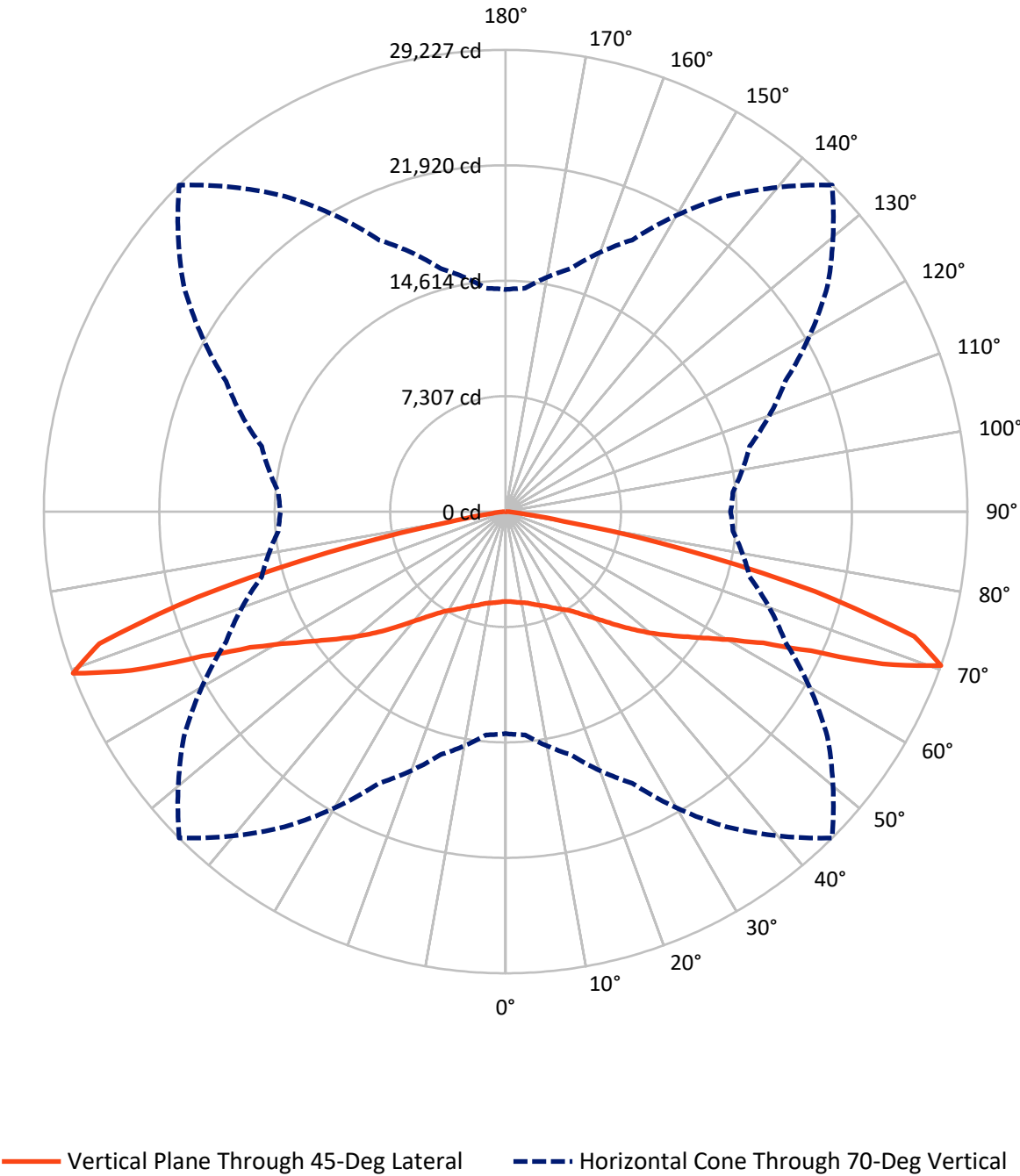
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29759.9	0.0	29759.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29759.9	0.0	29759.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	59519.7	0.0	59519.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.9	0.9
10°-20°	1717.5	2.9
20°-30°	3069.4	5.2
30°-40°	4975.5	8.4
40°-50°	8104.4	13.6
50°-60°	12356.4	20.8
60°-70°	18382.4	30.9
70°-80°	10019.0	16.8
80°-90°	341.2	0.6
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°	59519.7	100.0
0°-180°	59519.7	100.0

Coefficient of Utilization



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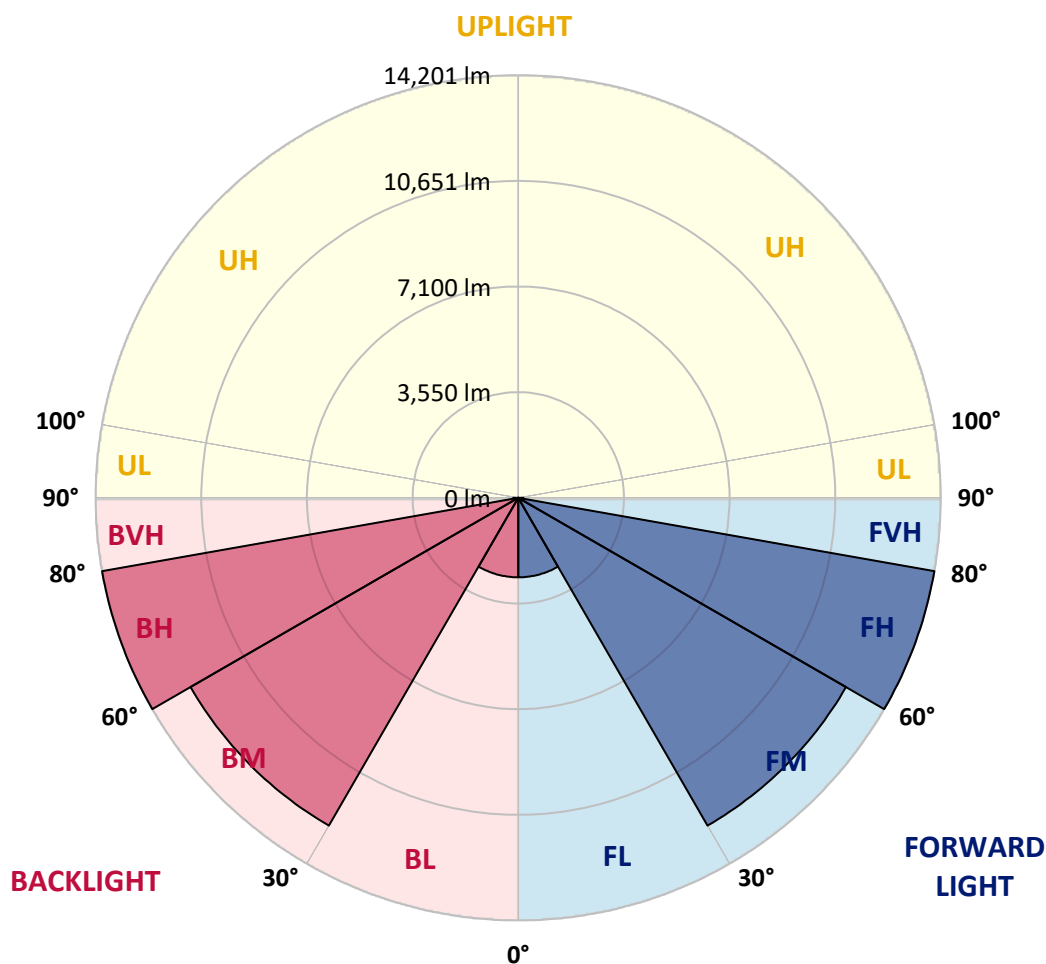
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2670.4	4.5			
FM	(30°-60°)	12718.1	21.4			
FH	(60°-80°)	14200.7	23.9			G5
FVH	(80°-90°)	170.6	0.3			G2/225
BL	(0°-30°)	2670.4	4.5	B4/5000		
BM	(30°-60°)	12718.1	21.4	B5		
BH	(60°-80°)	14200.7	23.9	B5		G5
BVH	(80°-90°)	170.6	0.3			G2/225
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°	5701.4	5701.4	5701.4	5701.4	5701.4	5701.4	5701.4	5701.4	5701.4	5701.4	5701.4
2.5°	5728.3	5734.3	5722.3	5716.3	5710.4	5701.4	5704.3	5719.3	5731.3	5728.3	5731.3
5°	5776.1	5782.0	5773.1	5770.1	5758.1	5755.2	5755.2	5770.1	5779.1	5773.1	5776.1
7.5°	5829.9	5838.8	5823.8	5820.9	5814.9	5809.0	5805.9	5820.9	5829.9	5829.9	5829.9
10°	5880.6	5889.6	5877.7	5868.7	5862.7	5862.7	5856.7	5868.7	5883.6	5880.6	5880.6
12.5°	5934.4	5940.4	5928.5	5922.4	5922.4	5931.5	5922.4	5928.5	5940.4	5934.4	5931.5
15°	6000.1	6003.2	6000.1	6009.2	6024.1	6054.0	6027.1	6021.1	6027.1	6012.1	6012.1
17.5°	6089.8	6095.8	6107.8	6128.7	6149.6	6203.4	6155.5	6140.7	6140.7	6110.7	6110.7
20°	6200.4	6209.3	6227.3	6263.2	6290.0	6340.9	6293.0	6272.1	6263.2	6224.3	6224.3
22.5°	6317.0	6331.8	6358.8	6406.6	6454.4	6502.2	6454.4	6418.5	6391.6	6340.9	6337.9
25°	6451.3	6469.3	6511.1	6588.8	6654.6	6723.3	6666.5	6594.8	6541.0	6469.3	6466.3
27.5°	6642.6	6663.5	6714.4	6810.0	6893.6	6953.4	6899.6	6807.0	6732.3	6645.6	6642.6
30°	6911.6	6932.5	6992.2	7093.8	7150.6	7189.5	7153.6	7081.9	6992.2	6893.6	6893.6
32.5°	7258.2	7285.1	7350.8	7446.4	7458.4	7464.4	7452.5	7416.6	7350.8	7231.3	7234.2
35°	7697.4	7727.4	7802.0	7879.7	7867.8	7879.7	7861.7	7849.9	7802.0	7664.5	7664.5
37.5°	8235.4	8271.1	8348.8	8408.6	8378.8	8363.8	8366.8	8369.7	8342.9	8190.5	8190.5
40°	8859.8	8907.7	8964.4	9027.2	8976.3	8931.5	8961.5	8985.4	8961.5	8806.1	8806.1
42.5°	9502.3	9571.0	9630.8	9720.4	9678.6	9621.8	9663.6	9690.6	9639.7	9472.4	9484.3
45°	10216.5	10282.2	10359.9	10494.4	10464.4	10404.7	10464.4	10470.5	10383.8	10186.6	10207.5
47.5°	10954.5	11023.3	11139.8	11319.1	11307.1	11241.4	11319.1	11277.3	11166.7	10930.6	10915.6
50°	11653.7	11749.4	11928.6	12179.7	12203.5	12122.9	12227.4	12146.8	11961.5	11665.7	11659.7
52.5°	12311.2	12412.7	12696.6	13037.3	13123.9	13019.3	13159.8	13019.3	12741.5	12361.9	12326.0
55°	13001.4	13115.0	13452.6	13897.9	14071.2	13993.5	14124.9	13912.7	13518.3	13058.2	12995.5
57.5°	13814.1	13882.9	14286.3	14815.2	15108.0	15125.9	15185.7	14827.1	14349.1	13826.1	13754.4
60°	14695.6	14791.3	15230.6	15864.0	16327.2	16476.6	16413.8	15882.0	15326.2	14725.6	14629.9
62.5°	15825.2	15929.7	16455.7	17214.7	17946.7	18317.3	18072.3	17301.3	16614.0	15894.0	15768.4
65°	16760.5	16877.0	17827.2	19180.8	20513.6	21257.6	20642.1	19222.7	17985.6	16969.7	16802.3
67.5°	16082.1	16225.6	17716.7	20202.9	23516.7	25736.8	23630.2	20507.6	18084.2	16706.7	16500.6
70°	14056.2	14190.7	15929.7	18968.8	24362.3	29227.0	24870.3	19527.5	15986.5	14444.7	14238.5
72.5°	9332.0	9765.3	11525.3	15170.8	21753.7	27045.6	21968.8	14863.0	10691.6	9311.0	9009.2
75°	3095.7	3442.4	4643.6	7864.8	14570.2	20226.7	13870.9	6959.3	3678.4	2647.5	2504.1
77.5°	779.9	899.4	1240.0	2250.1	5812.0	11516.3	5232.2	1837.7	1001.0	699.3	624.5
80°	379.5	418.3	597.7	750.0	1455.2	3660.5	1365.6	705.2	472.1	364.6	334.7
82.5°	209.2	212.2	337.6	424.4	540.9	947.2	561.8	412.4	271.9	221.1	221.1
85°	128.5	125.5	179.3	227.1	227.1	337.6	269.0	227.1	155.4	137.5	143.4
87.5°	50.8	50.8	65.7	71.8	62.7	86.6	68.8	74.7	59.8	56.8	59.8
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)