

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: P969267

Luminaire Tested: **NAV-SB5D-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54256.3 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

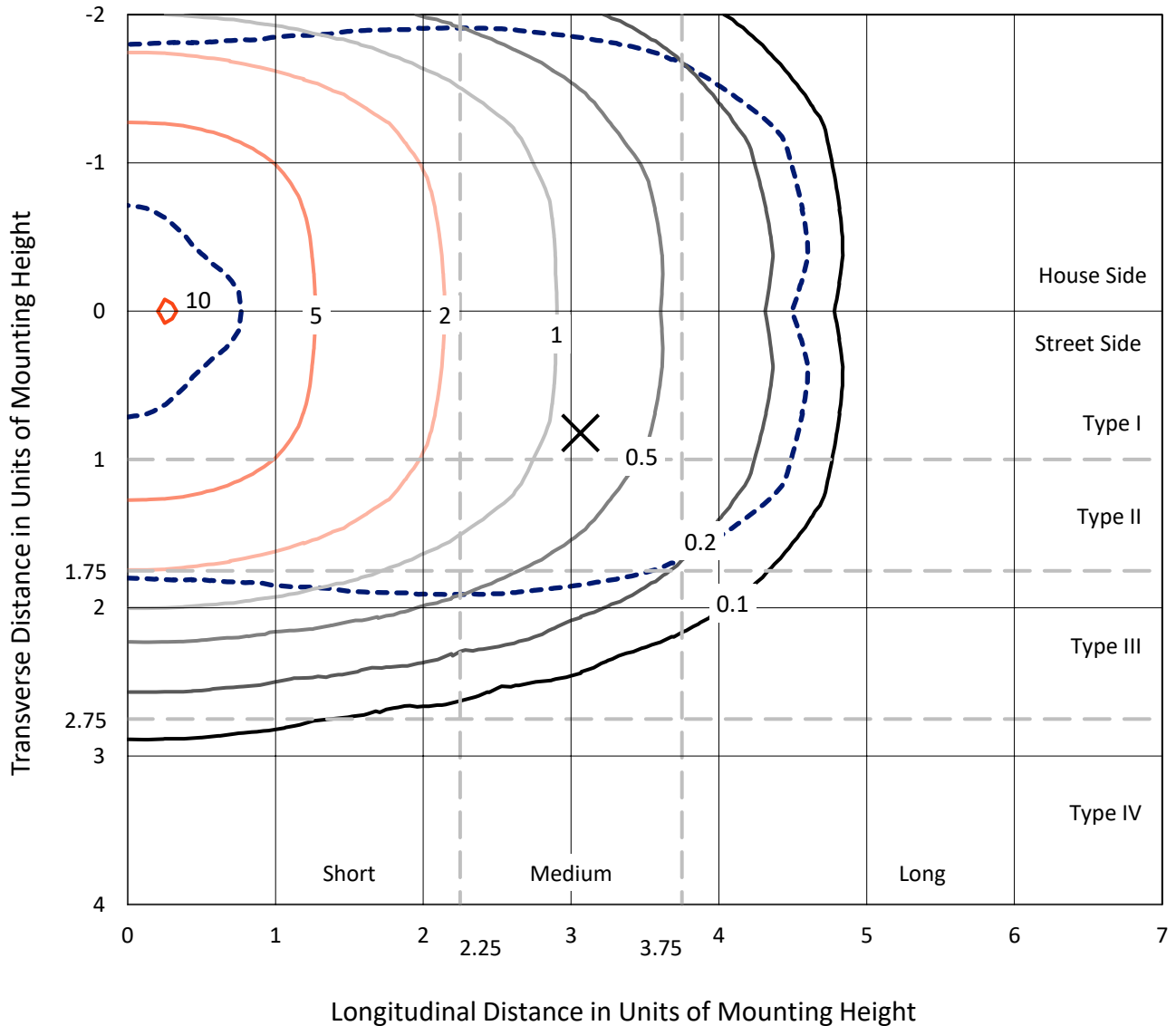
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

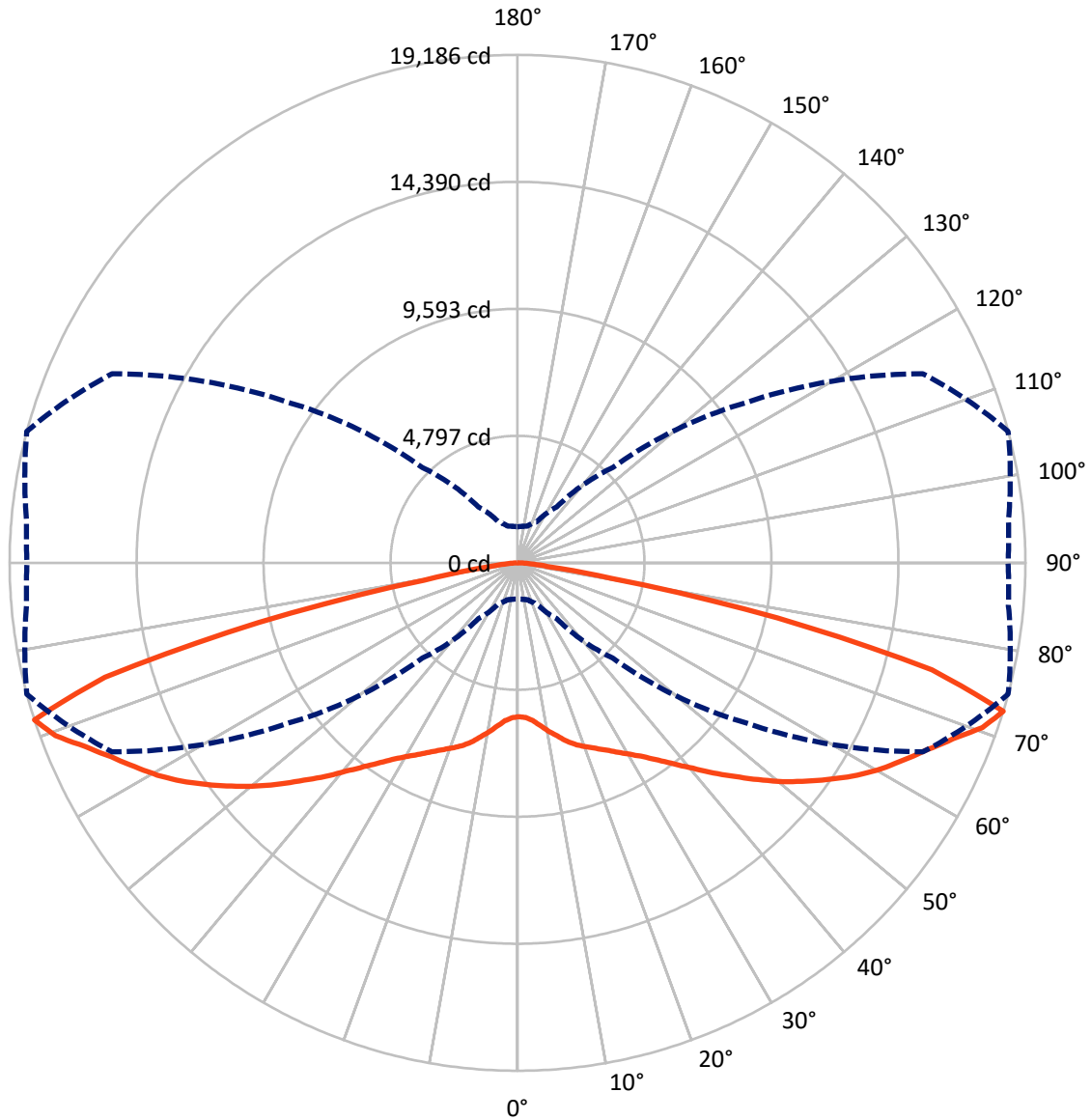
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27128.2	0.0	27128.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27128.2	0.0	27128.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	54256.3	0.0	54256.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.3	1.0
10°-20°	1877.7	3.5
20°-30°	3628.3	6.7
30°-40°	6126.6	11.3
40°-50°	9716.1	17.9
50°-60°	13008.8	24.0
60°-70°	12380.2	22.8
70°-80°	6460.2	11.9
80°-90°	489.0	0.9
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°	54256.3	100.0
0°-180°	54256.3	100.0

Coefficient of Utilization

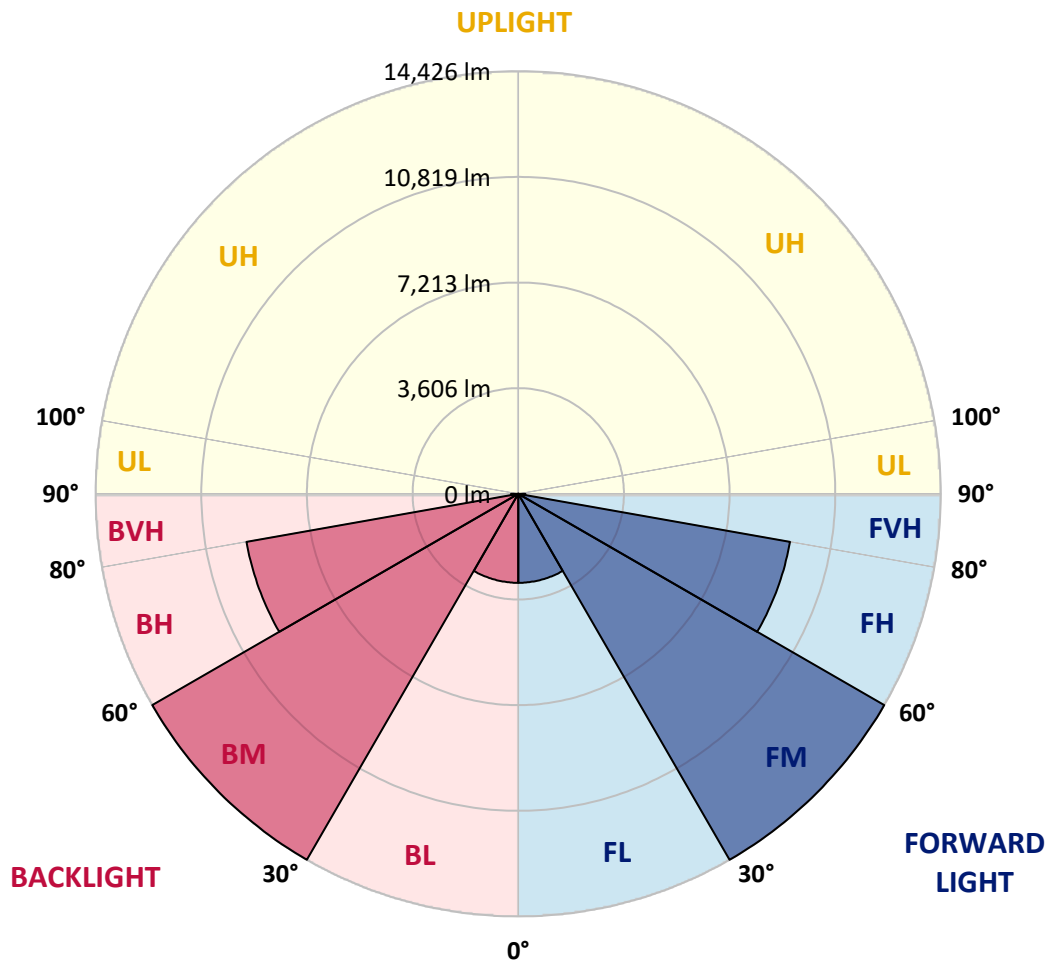


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.7	5.6			
FM (30°-60°)	14425.8	26.6			
FH (60°-80°)	9420.2	17.4			G4/12000
FVH (80°-90°)	244.5	0.5			G3/500
BL (0°-30°)	3037.7	5.6	B4/5000		
BM (30°-60°)	14425.8	26.6	B5		
BH (60°-80°)	9420.2	17.4	B5		G5
BVH (80°-90°)	244.5	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5811.9	5811.9	5811.9	5811.9	5811.9	5811.9	5811.9	5811.9	5811.9	5811.9	5811.9
2.5°	5811.9	5806.3	5811.9	5817.4	5814.6	5814.6	5828.5	5836.8	5853.4	5850.6	5847.8
5°	5773.0	5770.2	5792.5	5817.4	5836.8	5870.0	5911.6	5942.0	5980.8	5989.1	5989.1
7.5°	5753.6	5745.3	5784.1	5828.5	5889.3	5972.5	6052.8	6136.0	6202.4	6224.6	6230.2
10°	5767.5	5770.2	5822.9	5906.0	6003.0	6119.4	6232.9	6374.2	6468.4	6490.5	6512.6
12.5°	5831.2	5825.7	5914.4	6047.3	6180.2	6327.1	6460.1	6615.1	6717.6	6770.3	6792.5
15°	5947.6	5936.5	6061.1	6257.8	6451.8	6623.4	6731.5	6878.4	6997.5	7064.0	7088.9
17.5°	6086.0	6091.6	6255.1	6509.9	6764.8	6958.7	7061.1	7135.9	7227.4	7285.6	7313.3
20°	6329.9	6341.0	6523.7	6825.7	7116.6	7338.2	7421.3	7393.6	7418.5	7462.8	7496.1
22.5°	6656.8	6662.3	6867.3	7194.2	7498.9	7742.6	7798.0	7684.4	7615.2	7645.7	7667.8
25°	7036.2	7072.3	7277.3	7612.5	7925.5	8158.2	8183.1	8011.3	7839.6	7847.9	7861.7
27.5°	7498.9	7532.1	7739.9	8072.3	8390.9	8593.1	8590.3	8360.4	8108.3	8044.6	8064.0
30°	8000.2	8036.3	8249.6	8593.1	8889.5	9066.7	9028.0	8753.7	8393.6	8274.5	8288.4
32.5°	8595.9	8618.0	8834.1	9177.5	9451.8	9593.1	9512.8	9174.8	8726.0	8590.3	8623.5
35°	9316.1	9349.3	9510.1	9834.2	10075.1	10191.5	10055.8	9656.8	9152.6	9000.3	9022.5
37.5°	10138.8	10116.6	10299.5	10587.6	10787.1	10859.1	10673.4	10199.8	9640.2	9460.1	9493.3
40°	10997.6	10986.5	11185.9	11463.0	11571.0	11615.3	11341.1	10823.1	10202.5	10008.6	10072.4
42.5°	11776.0	11767.7	12036.4	12343.9	12474.0	12424.2	12078.0	11485.1	10853.5	10631.9	10687.4
45°	12399.3	12388.3	12717.9	13150.0	13404.8	13321.7	12856.4	12216.5	11512.8	11282.9	11335.6
47.5°	12878.5	12884.0	13238.7	13773.3	14219.3	14249.8	13651.5	12961.6	12238.6	11978.3	12055.8
50°	13224.9	13241.5	13620.9	14213.8	14823.2	15091.9	14463.1	13726.2	12989.3	12695.8	12784.3
52.5°	13310.6	13341.2	13798.2	14493.5	15211.0	15723.5	15288.6	14460.3	13701.3	13421.5	13493.5
55°	12853.6	12914.6	13493.5	14471.4	15449.2	16139.0	16014.4	15205.5	14418.8	14130.6	14211.0
57.5°	11803.7	11889.6	12565.5	13842.5	15396.6	16424.4	16576.7	15920.2	15136.3	14859.2	14923.0
60°	10332.7	10435.2	11083.4	12476.8	14654.2	16529.7	16972.9	16615.5	15795.6	15526.8	15585.0
62.5°	8113.8	8246.8	9022.5	10656.8	13086.3	16039.3	17310.8	17244.3	16388.3	16053.1	16092.0
65°	5205.2	5346.4	6163.6	8094.4	10994.9	14537.9	17416.1	17856.5	17014.4	16546.3	16604.4
67.5°	3138.7	3202.3	3606.8	4906.0	8036.3	12274.7	16524.1	18535.3	17745.7	17164.0	17208.3
70°	2008.4	2044.4	2285.4	2881.0	4543.1	8955.9	14313.5	18662.7	18632.1	17798.4	17792.9
72.5°	1362.9	1374.0	1437.8	1706.4	2570.7	5088.8	10557.1	16895.3	19186.3	18615.5	18526.9
75°	997.2	1058.2	1160.7	1207.8	1459.9	2543.0	6050.1	11870.2	16169.5	16418.9	15814.9
77.5°	742.4	745.2	886.4	941.9	1041.6	1354.6	2559.6	6626.2	10039.2	10540.5	9402.0
80°	628.8	595.6	592.9	759.0	783.9	844.9	1144.1	2288.2	3595.7	2180.2	1648.3
82.5°	523.6	487.6	440.4	592.9	534.6	518.0	495.9	930.8	1144.1	562.3	479.3
85°	365.6	349.0	332.4	387.9	304.7	260.3	238.2	434.9	482.1	238.2	210.5
87.5°	157.8	163.5	166.3	171.8	127.4	91.4	91.4	121.9	121.9	94.2	69.3
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)