

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: P969262

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969262  
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-SB5D-730-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

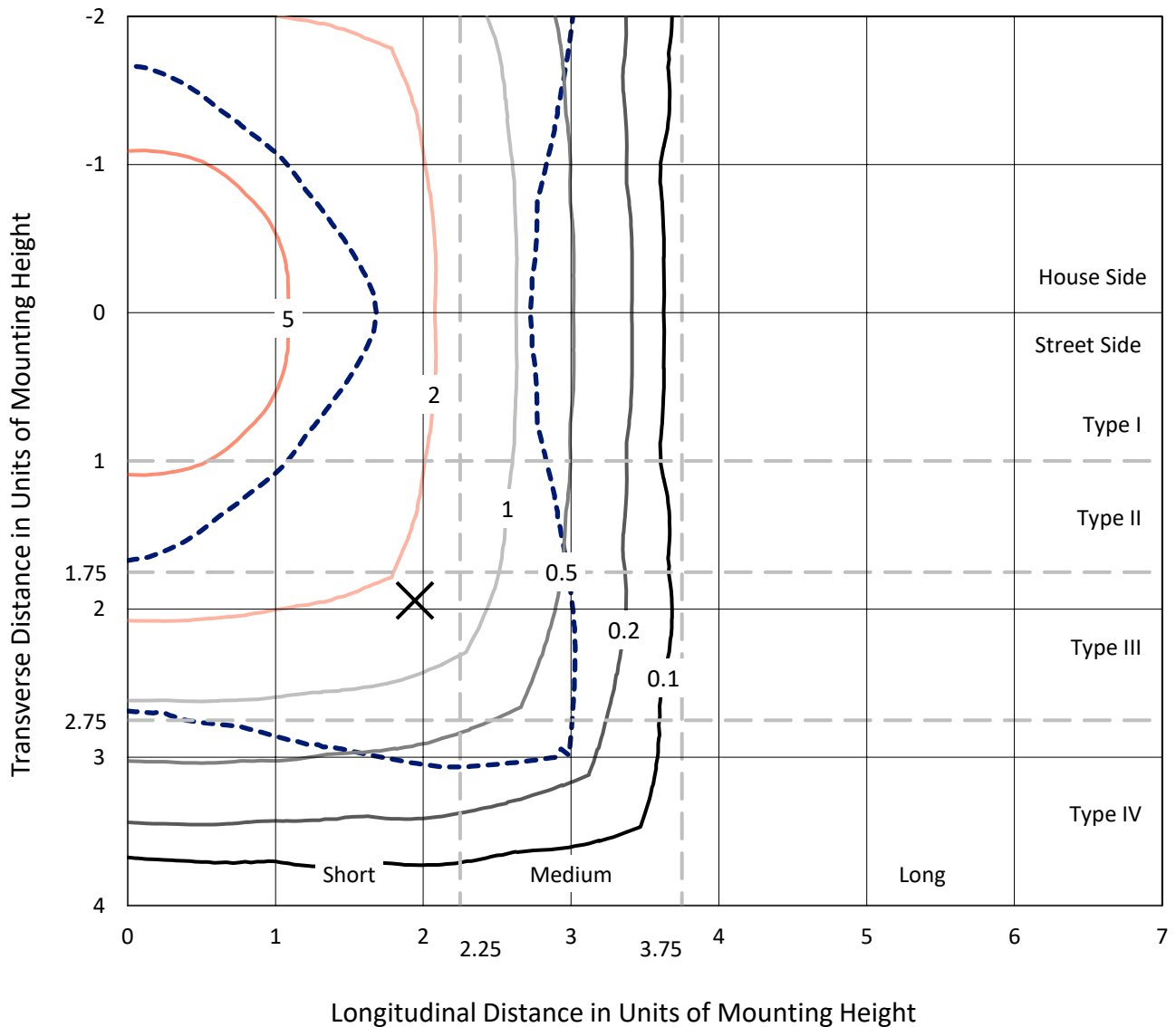
Lumens per Lamp: N/A  
Luminaire Lumens: 55178.8 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

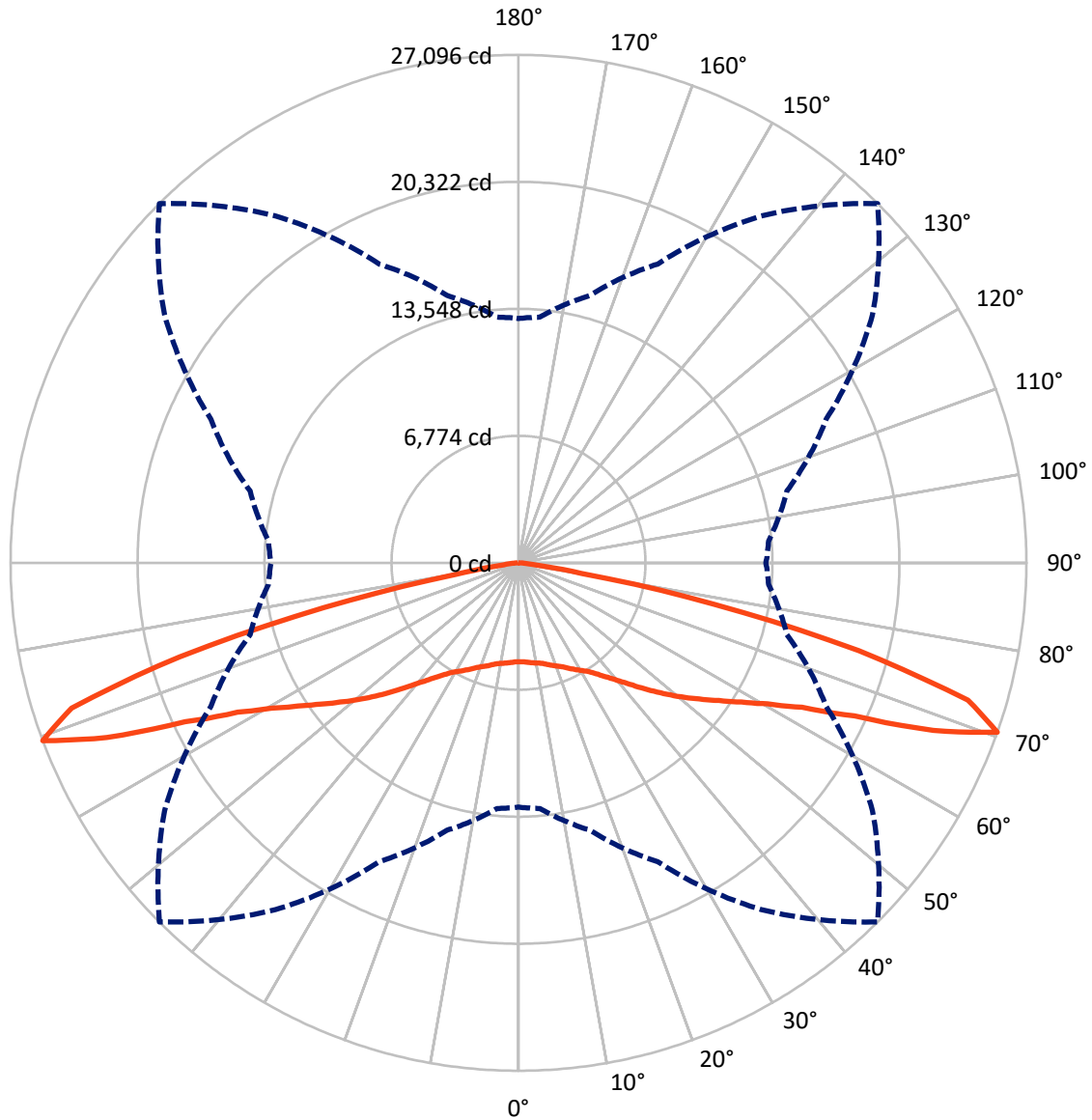
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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
<b>House Side</b>	Lumens	27589.4	0.0	27589.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27589.4	0.0	27589.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55178.8	0.0	55178.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.5	0.9
10°-20°	1592.3	2.9
20°-30°	2845.6	5.2
30°-40°	4612.7	8.4
40°-50°	7513.3	13.6
50°-60°	11455.2	20.8
60°-70°	17041.7	30.9
70°-80°	9288.3	16.8
80°-90°	316.3	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°	55178.8	100.0
0°-180°	55178.8	100.0

**Coefficient of Utilization**



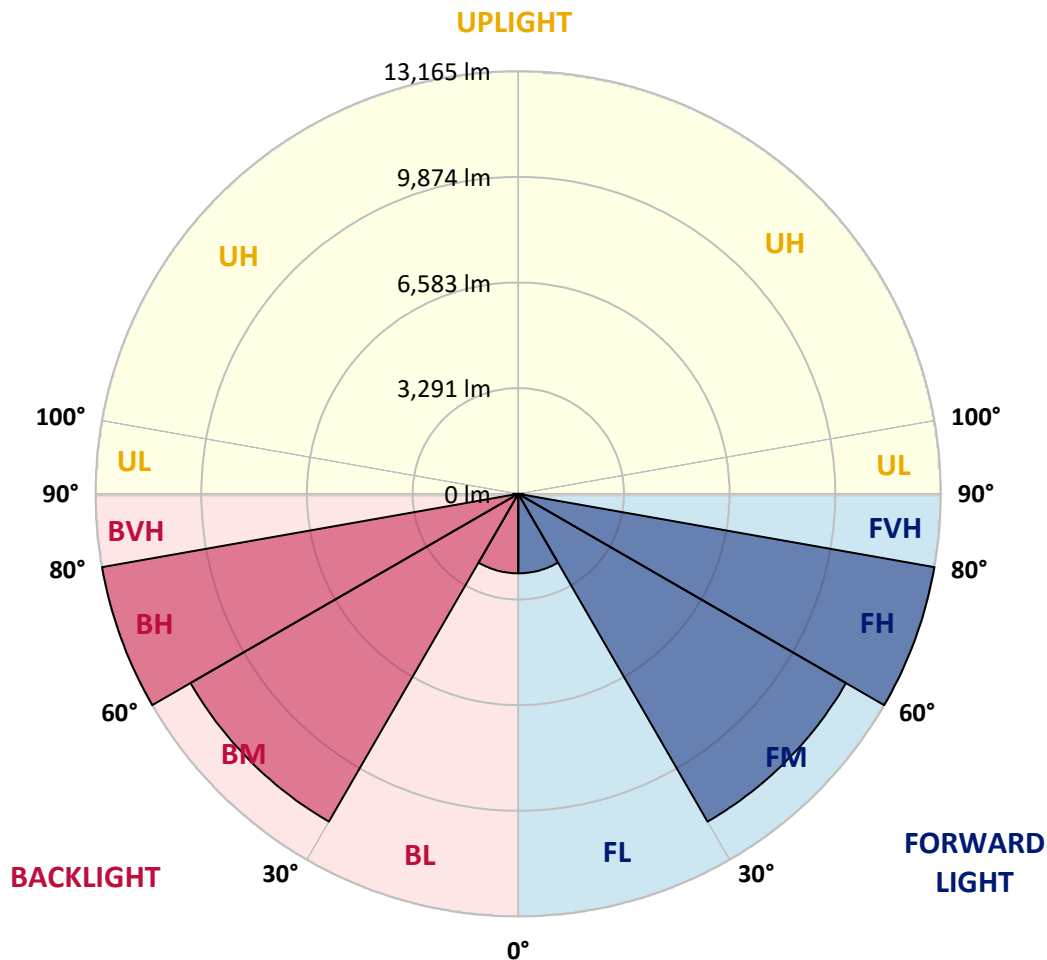
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.7	4.5			
FM (30°-60°)	11790.6	21.4			
FH (60°-80°)	13165.0	23.9			G5
FVH (80°-90°)	158.1	0.3			G2/225
BL (0°-30°)	2475.7	4.5	B3/2500		
BM (30°-60°)	11790.6	21.4	B5		
BH (60°-80°)	13165.0	23.9	B5		G5
BVH (80°-90°)	158.1	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°	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5
2.5°	5310.5	5316.1	5305.0	5299.5	5293.9	5285.5	5288.3	5302.2	5313.3	5310.5	5313.3
5°	5354.8	5360.3	5352.0	5349.3	5338.2	5335.4	5335.4	5349.3	5357.6	5352.0	5354.8
7.5°	5404.7	5413.0	5399.2	5396.3	5390.8	5385.2	5382.5	5396.3	5404.7	5404.7	5404.7
10°	5451.8	5460.1	5449.0	5440.7	5435.2	5435.2	5429.6	5440.7	5454.5	5451.8	5451.8
12.5°	5501.7	5507.2	5496.0	5490.5	5490.5	5498.8	5490.5	5496.0	5507.2	5501.7	5498.8
15°	5562.6	5565.3	5562.6	5570.9	5584.7	5612.5	5587.5	5581.9	5587.5	5573.6	5573.6
17.5°	5645.7	5651.2	5662.3	5681.7	5701.0	5751.0	5706.6	5692.7	5692.7	5665.1	5665.1
20°	5748.2	5756.5	5773.1	5806.3	5831.3	5878.4	5834.1	5814.6	5806.3	5770.3	5770.3
22.5°	5856.2	5870.1	5895.0	5939.4	5983.6	6028.0	5983.6	5950.4	5925.5	5878.4	5875.6
25°	5980.9	5997.5	6036.3	6108.3	6169.3	6232.9	6180.3	6113.8	6064.0	5997.5	5994.7
27.5°	6158.2	6177.6	6224.6	6313.3	6390.9	6446.3	6396.4	6310.5	6241.3	6161.0	6158.2
30°	6407.5	6426.9	6482.3	6576.5	6629.1	6665.2	6631.9	6565.4	6482.3	6390.9	6390.9
32.5°	6728.8	6753.7	6814.7	6903.4	6914.4	6920.0	6908.9	6875.7	6814.7	6703.9	6706.7
35°	7136.0	7163.7	7233.0	7305.1	7294.0	7305.1	7288.5	7277.3	7233.0	7105.6	7105.6
37.5°	7634.7	7667.9	7740.0	7795.3	7767.7	7753.8	7756.6	7759.4	7734.4	7593.1	7593.1
40°	8213.6	8258.0	8310.6	8368.8	8321.7	8280.2	8307.8	8330.0	8307.8	8163.8	8163.8
42.5°	8809.3	8873.0	8928.4	9011.5	8972.7	8920.1	8958.8	8983.8	8936.7	8781.6	8792.7
45°	9471.3	9532.3	9604.4	9729.0	9701.3	9645.9	9701.3	9706.9	9626.5	9443.6	9463.0
47.5°	10155.6	10219.4	10327.4	10493.5	10482.5	10421.5	10493.5	10454.8	10352.3	10133.5	10119.6
50°	10803.8	10892.5	11058.7	11291.4	11313.5	11238.7	11335.7	11260.9	11089.2	10814.9	10809.3
52.5°	11413.3	11507.5	11770.6	12086.4	12166.7	12069.8	12200.0	12069.8	11812.2	11460.3	11427.1
55°	12053.2	12158.4	12471.5	12884.2	13044.9	12972.9	13094.8	12898.1	12532.5	12105.9	12047.6
57.5°	12806.7	12870.4	13244.3	13734.7	14006.2	14022.8	14078.2	13745.8	13302.6	12817.7	12751.3
60°	13623.9	13712.6	14119.8	14707.0	15136.4	15275.0	15216.7	14723.7	14208.4	13651.6	13562.9
62.5°	14671.0	14768.0	15255.6	15959.1	16637.9	16981.4	16754.2	16039.5	15402.4	14734.8	14618.4
65°	15538.1	15646.1	16527.1	17782.0	19017.4	19707.3	19136.6	17820.8	16673.9	15732.0	15576.9
67.5°	14909.2	15042.3	16424.6	18729.4	21801.5	23859.8	21906.8	19011.9	16765.3	15488.3	15297.1
70°	13031.0	13155.8	14768.0	17585.3	22585.6	27095.5	23056.5	18103.3	14820.6	13391.2	13200.1
72.5°	8651.4	9053.0	10684.7	14064.3	20167.1	25073.1	20366.5	13779.0	9911.9	8631.9	8352.2
75°	2869.9	3191.2	4304.9	7291.2	13507.6	18751.6	12859.3	6451.9	3410.2	2454.4	2321.4
77.5°	723.0	833.8	1149.6	2086.0	5388.0	10676.4	4850.6	1703.7	928.0	648.2	579.0
80°	351.8	387.9	554.0	695.4	1349.1	3393.5	1266.0	653.7	437.7	337.9	310.3
82.5°	193.9	196.7	313.0	393.4	501.4	878.1	520.8	382.3	252.0	205.0	205.0
85°	119.1	116.3	166.3	210.5	210.5	313.0	249.3	210.5	144.0	127.4	132.9
87.5°	47.0	47.0	61.0	66.5	58.2	80.4	63.8	69.3	55.5	52.7	55.5
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)