

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: P970781

Luminaire Tested: **NAV-SB6C-722-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970781  
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-SB6C-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40271.2 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

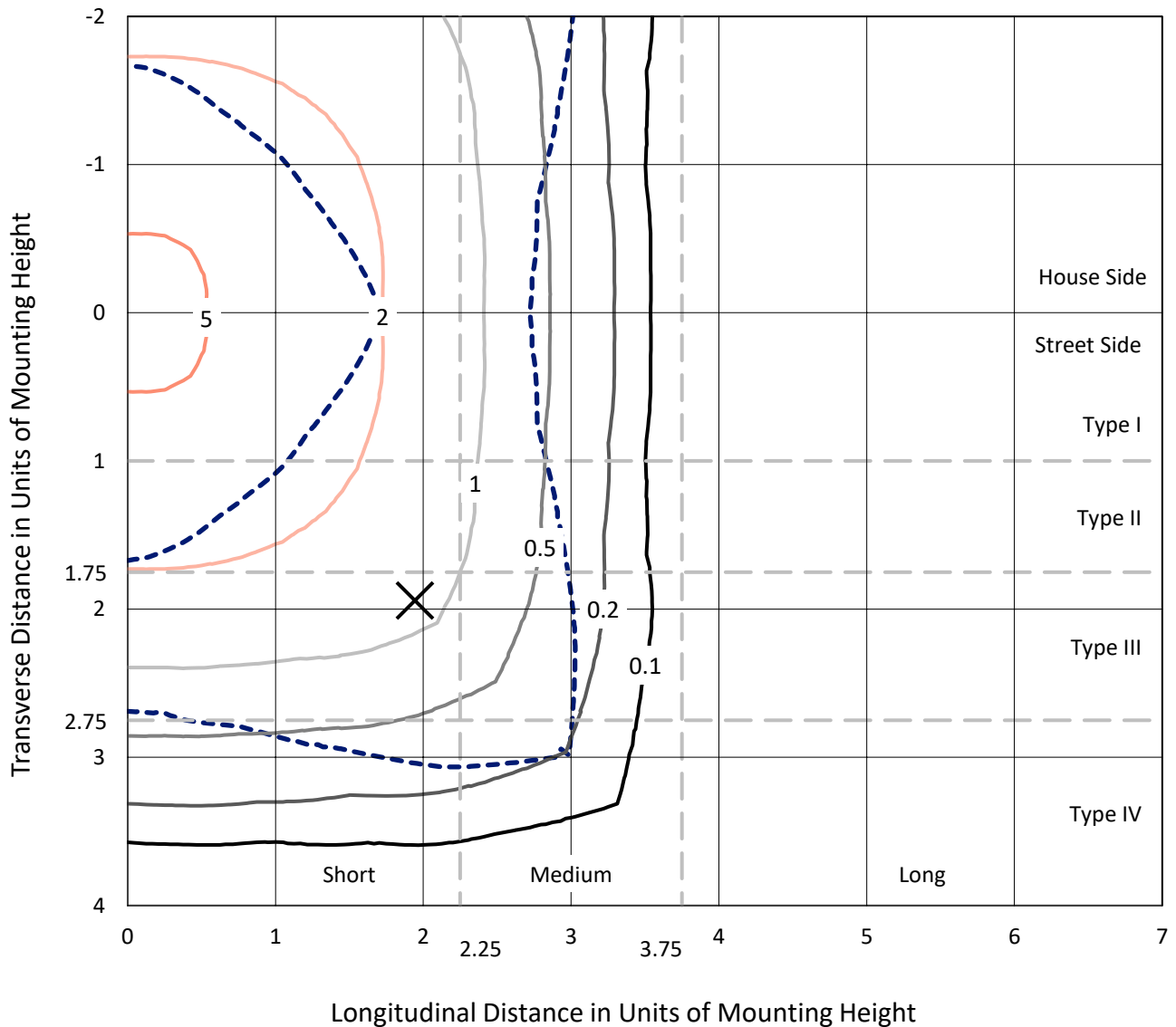
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

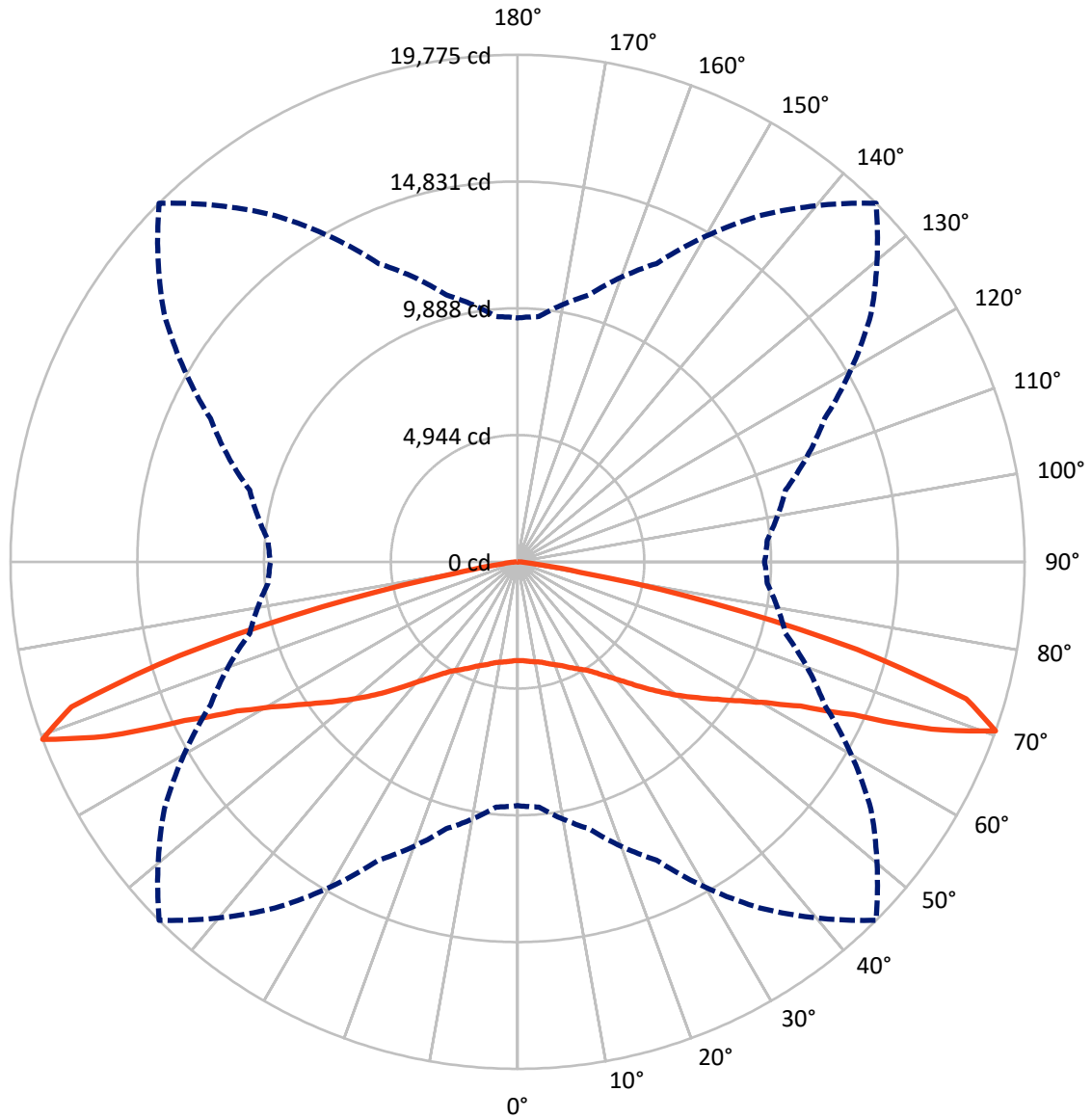
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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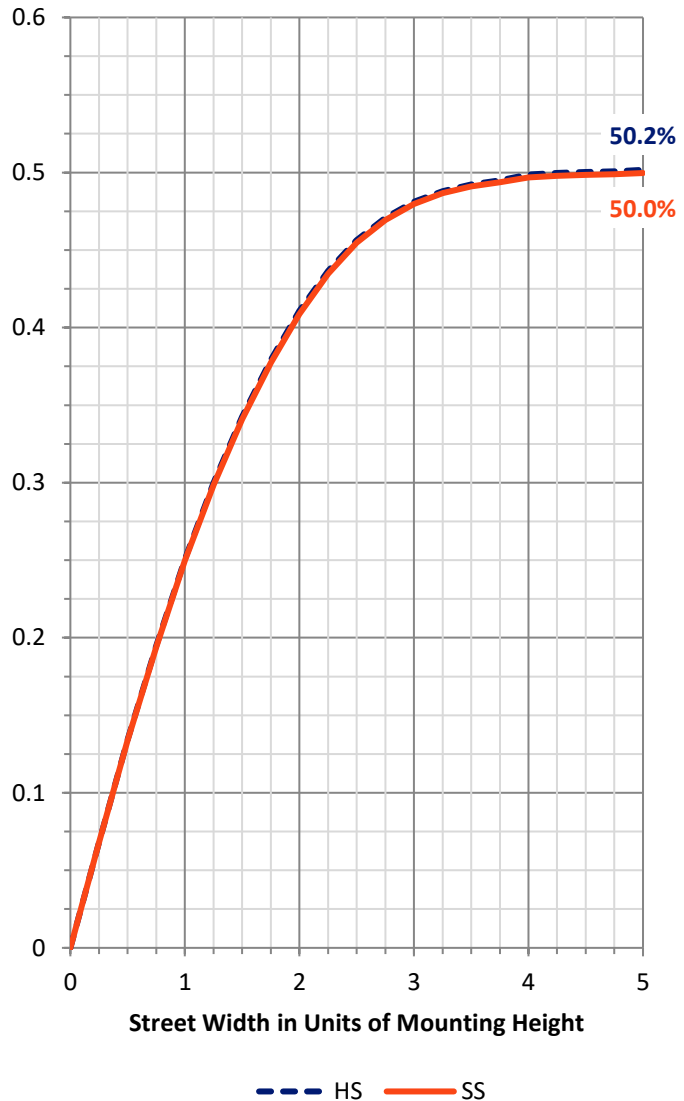
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20135.6	0.0	20135.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20135.6	0.0	20135.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40271.2	0.0	40271.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.8	0.9
10°-20°	1162.1	2.9
20°-30°	2076.8	5.2
30°-40°	3366.5	8.4
40°-50°	5483.4	13.6
50°-60°	8360.4	20.8
60°-70°	12437.6	30.9
70°-80°	6778.9	16.8
80°-90°	230.8	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°	40271.2	100.0
0°-180°	40271.2	100.0

**Coefficient of Utilization**



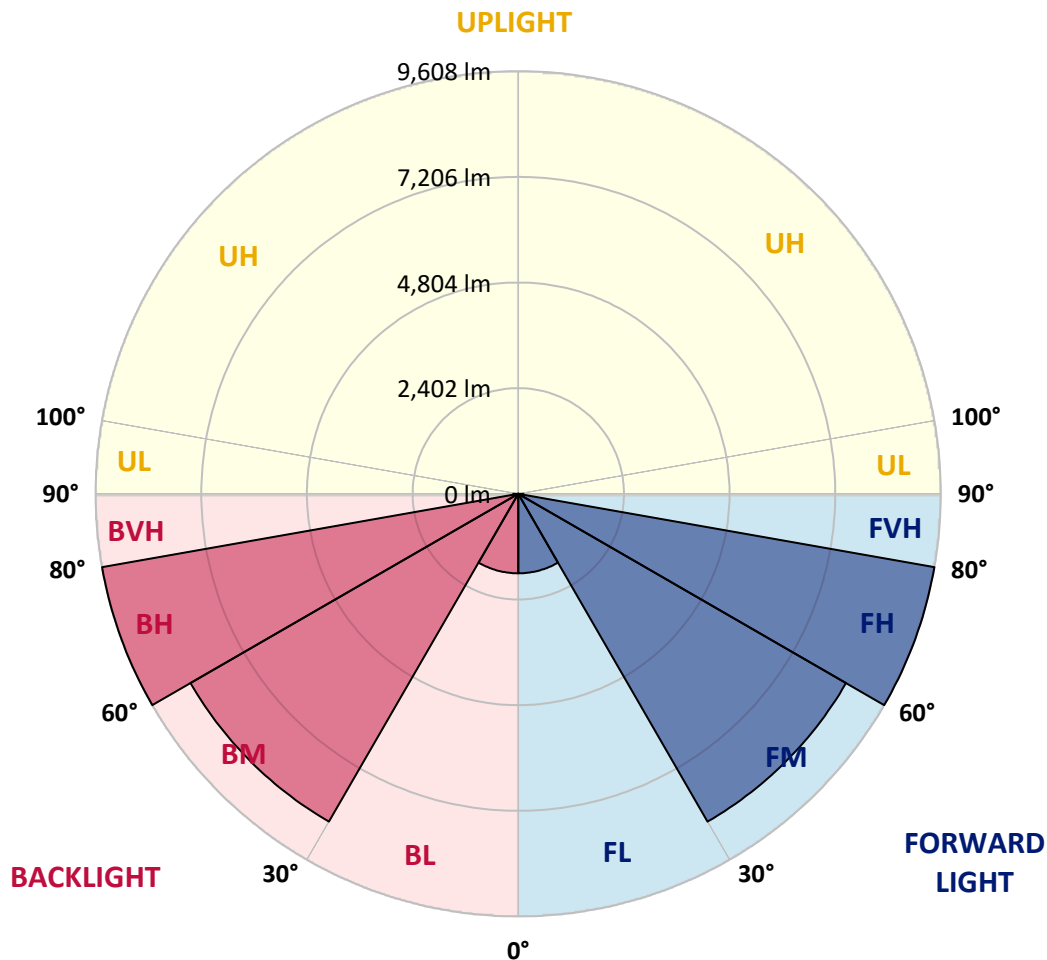
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.8	4.5			
FM (30°-60°)	8605.1	21.4			
FH (60°-80°)	9608.2	23.9			G4/12000
FVH (80°-90°)	115.4	0.3			G2/225
BL (0°-30°)	1806.8	4.5	B3/2500		
BM (30°-60°)	8605.1	21.4	B5		
BH (60°-80°)	9608.2	23.9	B5		G4/12000
BVH (80°-90°)	115.4	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6
2.5°	3875.7	3879.8	3871.7	3867.6	3863.6	3857.6	3859.6	3869.7	3877.8	3875.7	3877.8
5°	3908.1	3912.1	3906.1	3904.0	3896.0	3894.0	3894.0	3904.0	3910.2	3906.1	3908.1
7.5°	3944.5	3950.6	3940.5	3938.5	3934.4	3930.4	3928.3	3938.5	3944.5	3944.5	3944.5
10°	3978.8	3984.9	3976.9	3970.7	3966.7	3966.7	3962.6	3970.7	3980.9	3978.8	3978.8
12.5°	4015.2	4019.3	4011.2	4007.1	4007.1	4013.3	4007.1	4011.2	4019.3	4015.2	4013.3
15°	4059.7	4061.8	4059.7	4065.8	4075.9	4096.1	4078.0	4073.9	4078.0	4067.8	4067.8
17.5°	4120.4	4124.4	4132.5	4146.6	4160.9	4197.3	4164.9	4154.7	4154.7	4134.5	4134.5
20°	4195.2	4201.3	4213.4	4237.7	4255.9	4290.2	4257.8	4243.7	4237.7	4211.4	4211.4
22.5°	4274.0	4284.2	4302.3	4334.7	4367.0	4399.4	4367.0	4342.8	4324.6	4290.2	4288.2
25°	4365.1	4377.2	4405.4	4458.0	4502.5	4549.1	4510.6	4462.0	4425.6	4377.2	4375.1
27.5°	4494.4	4508.6	4542.9	4607.7	4664.3	4704.6	4668.3	4605.6	4555.1	4496.5	4494.4
30°	4676.4	4690.5	4731.0	4799.8	4838.1	4864.4	4840.2	4791.7	4731.0	4664.3	4664.3
32.5°	4910.9	4929.1	4973.6	5038.3	5046.4	5050.4	5042.3	5018.1	4973.6	4892.7	4894.8
35°	5208.1	5228.3	5278.9	5331.4	5323.3	5331.4	5319.3	5311.2	5278.9	5185.9	5185.9
37.5°	5572.0	5596.3	5648.9	5689.3	5669.1	5659.0	5661.0	5663.0	5644.8	5541.8	5541.8
40°	5994.6	6026.9	6065.3	6107.8	6073.4	6043.1	6063.3	6079.5	6063.3	5958.2	5958.2
42.5°	6429.3	6475.7	6516.2	6576.9	6548.5	6510.2	6538.5	6556.6	6522.3	6409.0	6417.1
45°	6912.5	6957.0	7009.6	7100.5	7080.3	7039.9	7080.3	7084.3	7025.7	6892.3	6906.4
47.5°	7411.9	7458.4	7537.2	7658.5	7650.4	7605.9	7658.5	7630.2	7555.4	7395.7	7385.5
50°	7884.9	7949.7	8071.0	8240.8	8257.0	8202.4	8273.2	8218.6	8093.2	7893.0	7889.0
52.5°	8329.8	8398.5	8590.5	8821.0	8879.7	8809.0	8904.0	8809.0	8620.9	8364.1	8339.9
55°	8796.8	8873.6	9102.1	9403.3	9520.6	9468.0	9557.0	9413.4	9146.6	8835.2	8792.8
57.5°	9346.7	9393.2	9666.2	10024.0	10222.1	10234.3	10274.7	10032.1	9708.6	9354.8	9306.3
60°	9943.1	10007.8	10305.0	10733.7	11047.0	11148.1	11105.7	10745.8	10369.7	9963.3	9898.6
62.5°	10707.4	10778.2	11134.0	11647.5	12142.9	12393.6	12227.7	11706.1	11241.2	10753.9	10668.9
65°	11340.2	11419.0	12062.0	12977.8	13879.5	14383.0	13966.4	13006.1	12169.1	11481.7	11368.5
67.5°	10881.3	10978.3	11987.2	13669.3	15911.5	17413.6	15988.3	13875.5	12235.8	11303.8	11164.3
70°	9510.5	9601.5	10778.2	12834.3	16483.6	19775.1	16827.3	13212.4	10816.5	9773.3	9633.8
72.5°	6314.0	6607.2	7798.0	10264.6	14718.6	18299.2	14864.1	10056.4	7233.9	6299.9	6095.7
75°	2094.6	2329.1	3141.8	5321.4	9858.2	13685.5	9385.1	4708.7	2488.8	1791.3	1694.2
77.5°	527.7	608.5	839.1	1522.4	3932.4	7791.9	3540.1	1243.4	677.3	473.1	422.5
80°	256.8	283.0	404.4	507.5	984.6	2476.7	923.9	477.1	319.5	246.6	226.4
82.5°	141.6	143.5	228.5	287.1	365.9	640.9	380.1	279.0	184.0	149.6	149.6
85°	86.9	84.9	121.3	153.6	153.6	228.5	181.9	153.6	105.2	93.0	97.1
87.5°	34.3	34.3	44.5	48.5	42.4	58.6	46.5	50.5	40.4	38.4	40.4
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)