

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: P970905

Luminaire Tested: **NAV-SB6C-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970905
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-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51575.9 lumens
Efficiency: N/A
Efficacy: 171.4 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): 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



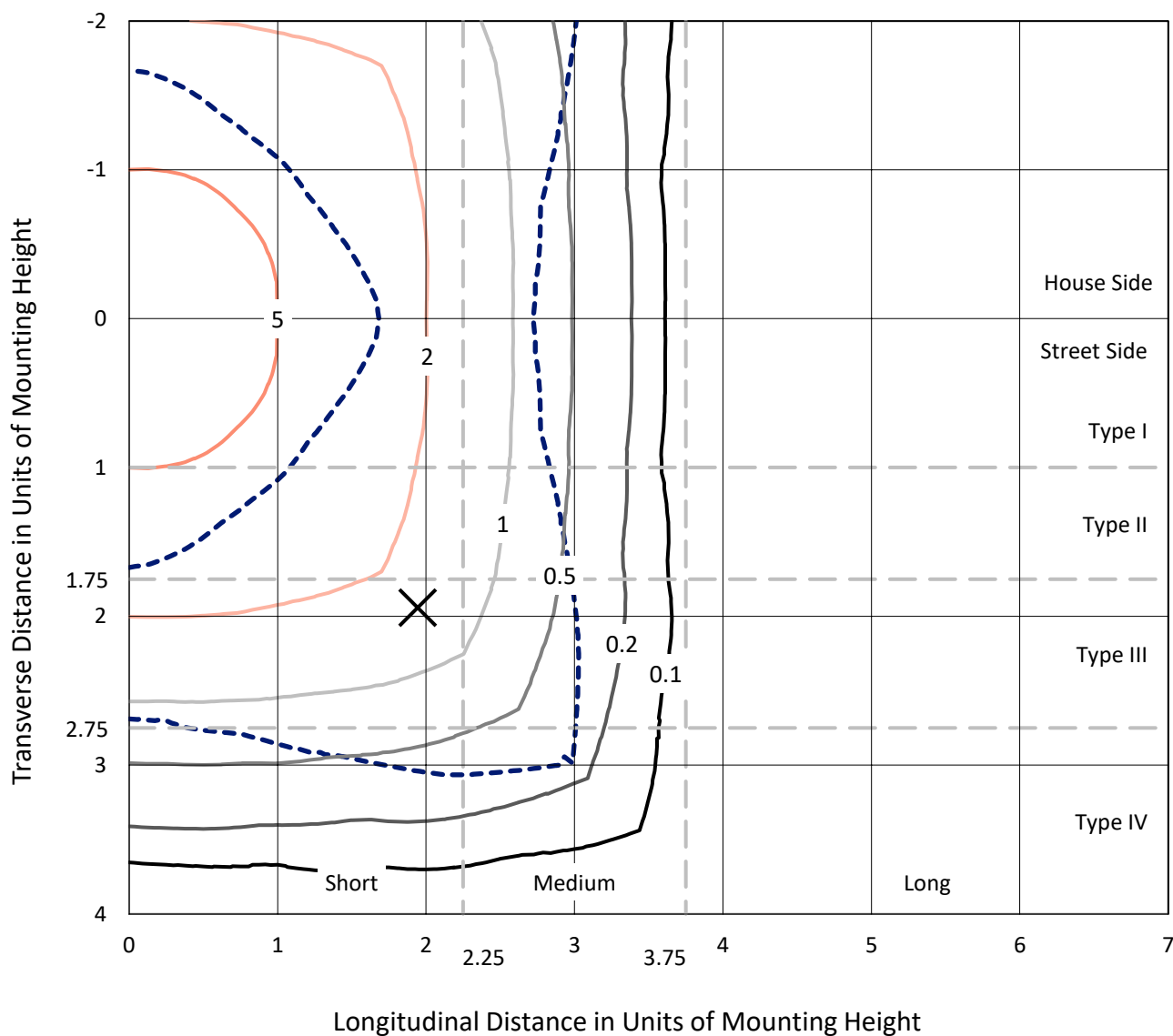
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

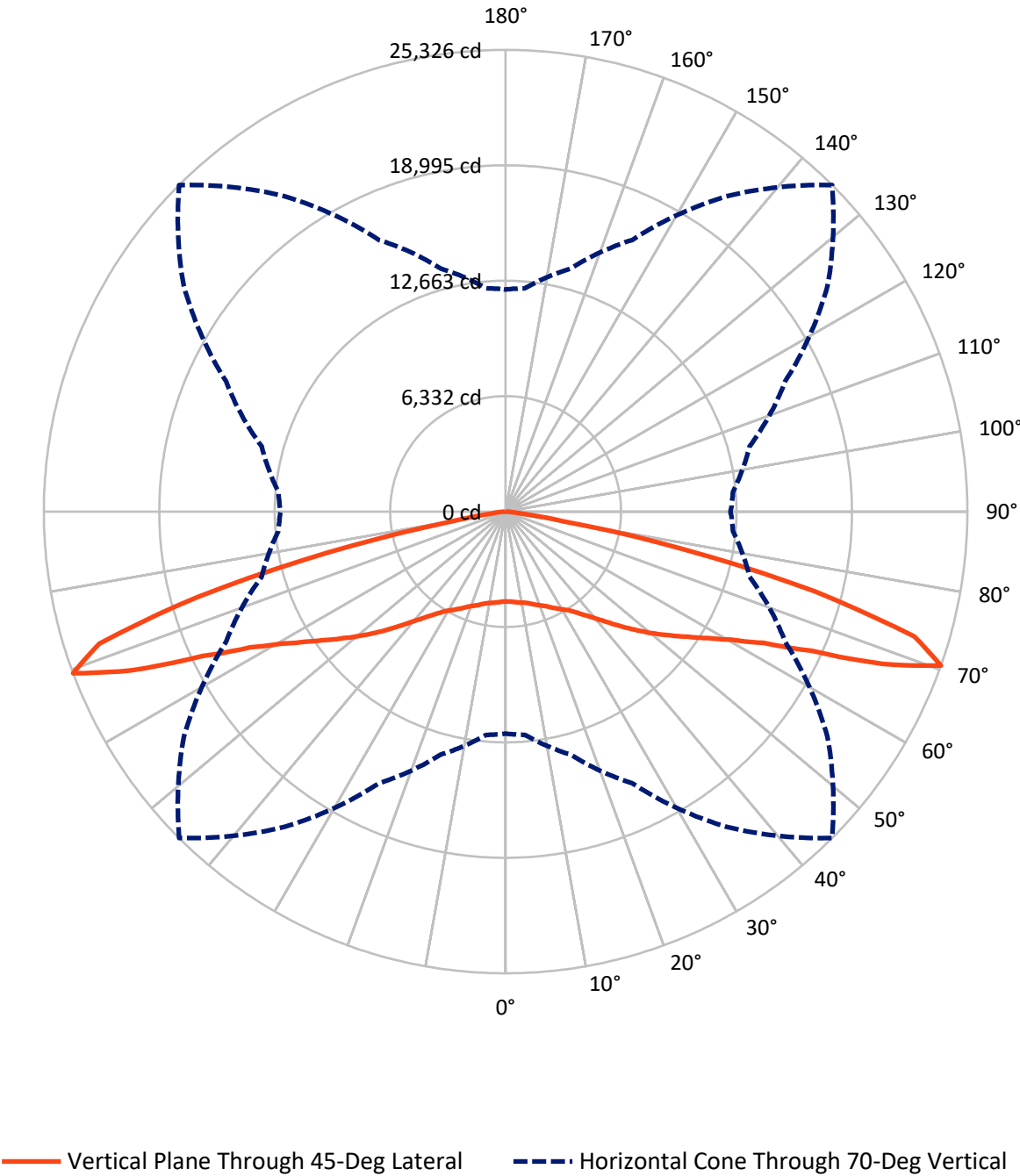


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

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	25788.0	0.0	25788.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25788.0	0.0	25788.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51575.9	0.0	51575.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.0	0.9
10°-20°	1488.3	2.9
20°-30°	2659.8	5.2
30°-40°	4311.5	8.4
40°-50°	7022.7	13.6
50°-60°	10707.2	20.8
60°-70°	15929.0	30.9
70°-80°	8681.8	16.8
80°-90°	295.6	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°	51575.9	100.0
0°-180°	51575.9	100.0

Coefficient of Utilization



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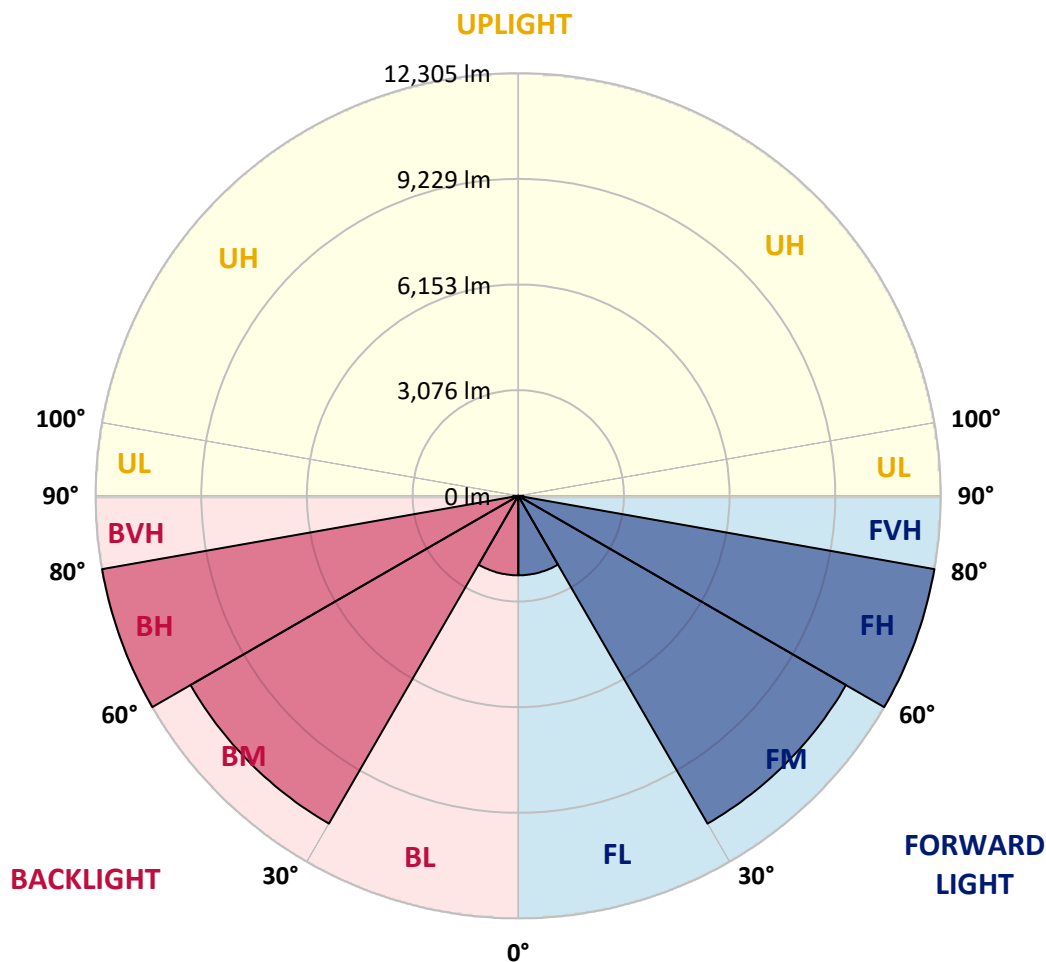
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2314.0	4.5			
FM	(30°-60°)	11020.7	21.4			
FH	(60°-80°)	12305.4	23.9			G5
FVH	(80°-90°)	147.8	0.3			G2/225
BL	(0°-30°)	2314.0	4.5	B3/2500		
BM	(30°-60°)	11020.7	21.4	B5		
BH	(60°-80°)	12305.4	23.9	B5		G5
BVH	(80°-90°)	147.8	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°	4940.4	4940.4	4940.4	4940.4	4940.4	4940.4	4940.4	4940.4	4940.4	4940.4	4940.4
2.5°	4963.8	4968.9	4958.5	4953.4	4948.2	4940.4	4943.1	4956.0	4966.3	4963.8	4966.3
5°	5005.2	5010.4	5002.6	5000.0	4989.6	4987.0	4987.0	5000.0	5007.7	5002.6	5005.2
7.5°	5051.8	5059.5	5046.6	5044.0	5038.8	5033.7	5031.1	5044.0	5051.8	5051.8	5051.8
10°	5095.8	5103.6	5093.2	5085.4	5080.3	5080.3	5075.1	5085.4	5098.3	5095.8	5095.8
12.5°	5142.4	5147.5	5137.2	5132.1	5132.1	5139.9	5132.1	5137.2	5147.5	5142.4	5139.9
15°	5199.4	5202.0	5199.4	5207.1	5220.1	5246.0	5222.7	5217.5	5222.7	5209.8	5209.8
17.5°	5277.0	5282.2	5292.6	5310.7	5328.9	5375.4	5334.0	5321.1	5321.1	5295.2	5295.2
20°	5372.8	5380.6	5396.2	5427.3	5450.5	5494.5	5453.1	5435.0	5427.3	5393.5	5393.5
22.5°	5473.8	5486.8	5510.1	5551.5	5592.9	5634.4	5592.9	5561.9	5538.6	5494.5	5492.0
25°	5590.3	5605.9	5642.1	5709.5	5766.4	5826.0	5776.8	5714.7	5668.0	5605.9	5603.3
27.5°	5756.1	5774.2	5818.2	5901.1	5973.6	6025.4	5978.7	5898.5	5833.8	5758.7	5756.1
30°	5989.1	6007.2	6059.1	6147.0	6196.2	6230.0	6198.9	6136.7	6059.1	5973.6	5973.6
32.5°	6289.5	6312.8	6369.8	6452.6	6462.9	6468.2	6457.8	6426.7	6369.8	6266.1	6268.8
35°	6670.1	6696.0	6760.7	6828.0	6817.7	6828.0	6812.6	6802.2	6760.7	6641.6	6641.6
37.5°	7136.2	7167.3	7234.6	7286.4	7260.5	7247.6	7250.1	7252.7	7229.4	7097.3	7097.3
40°	7677.4	7718.8	7768.0	7822.4	7778.3	7739.5	7765.4	7786.1	7765.4	7630.7	7630.7
42.5°	8234.0	8293.6	8345.4	8423.1	8386.9	8337.7	8373.9	8397.2	8353.1	8208.2	8218.6
45°	8852.9	8909.9	8977.3	9093.7	9067.9	9016.0	9067.9	9073.0	8998.0	8827.0	8845.1
47.5°	9492.5	9552.1	9653.0	9808.4	9798.0	9741.1	9808.4	9772.1	9676.3	9471.8	9458.8
50°	10098.4	10181.2	10336.6	10554.1	10574.8	10504.9	10595.5	10525.6	10365.1	10108.8	10103.5
52.5°	10668.0	10756.0	11002.0	11297.2	11372.4	11281.7	11403.4	11281.7	11040.9	10712.1	10681.0
55°	11266.2	11364.6	11657.1	12042.9	12193.2	12125.9	12239.7	12055.9	11714.1	11315.4	11261.0
57.5°	11970.5	12030.0	12379.5	12837.9	13091.6	13107.2	13159.0	12848.3	12434.0	11980.8	11918.7
60°	12734.3	12817.2	13197.8	13746.8	14148.1	14277.5	14223.2	13762.3	13280.7	12760.2	12677.4
62.5°	13713.1	13803.7	14259.5	14917.1	15551.5	15872.6	15660.3	14992.3	14396.6	13772.6	13663.9
65°	14523.5	14624.5	15448.0	16620.9	17775.8	18420.5	17887.1	16657.2	15585.2	14704.9	14559.8
67.5°	13935.8	14060.0	15352.1	17506.5	20378.0	22301.9	20476.4	17770.5	15670.6	14476.9	14298.2
70°	12180.2	12296.7	13803.7	16437.1	21110.8	25326.2	21551.0	16921.3	13852.9	12516.8	12338.1
72.5°	8086.4	8461.9	9987.1	13146.0	18850.4	23436.0	19036.7	12879.3	9264.7	8068.4	7806.8
75°	2682.5	2983.0	4023.8	6815.1	12625.5	17527.2	12019.7	6030.6	3187.4	2294.2	2169.8
77.5°	675.8	779.4	1074.6	1949.8	5036.2	9979.3	4533.9	1592.4	867.5	605.9	541.2
80°	328.8	362.5	517.8	650.0	1261.0	3172.0	1183.4	611.1	409.1	315.9	290.0
82.5°	181.2	183.9	292.6	367.7	468.6	820.8	486.8	357.3	235.6	191.6	191.6
85°	111.3	108.8	155.4	196.8	196.8	292.6	233.1	196.8	134.7	119.1	124.3
87.5°	44.0	44.0	57.0	62.1	54.3	75.1	59.6	64.8	51.8	49.2	51.8
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)