

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: P970876

Luminaire Tested: **NAV-SB6C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47085.4 lumens
Efficiency: N/A
Efficacy: 156.5 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



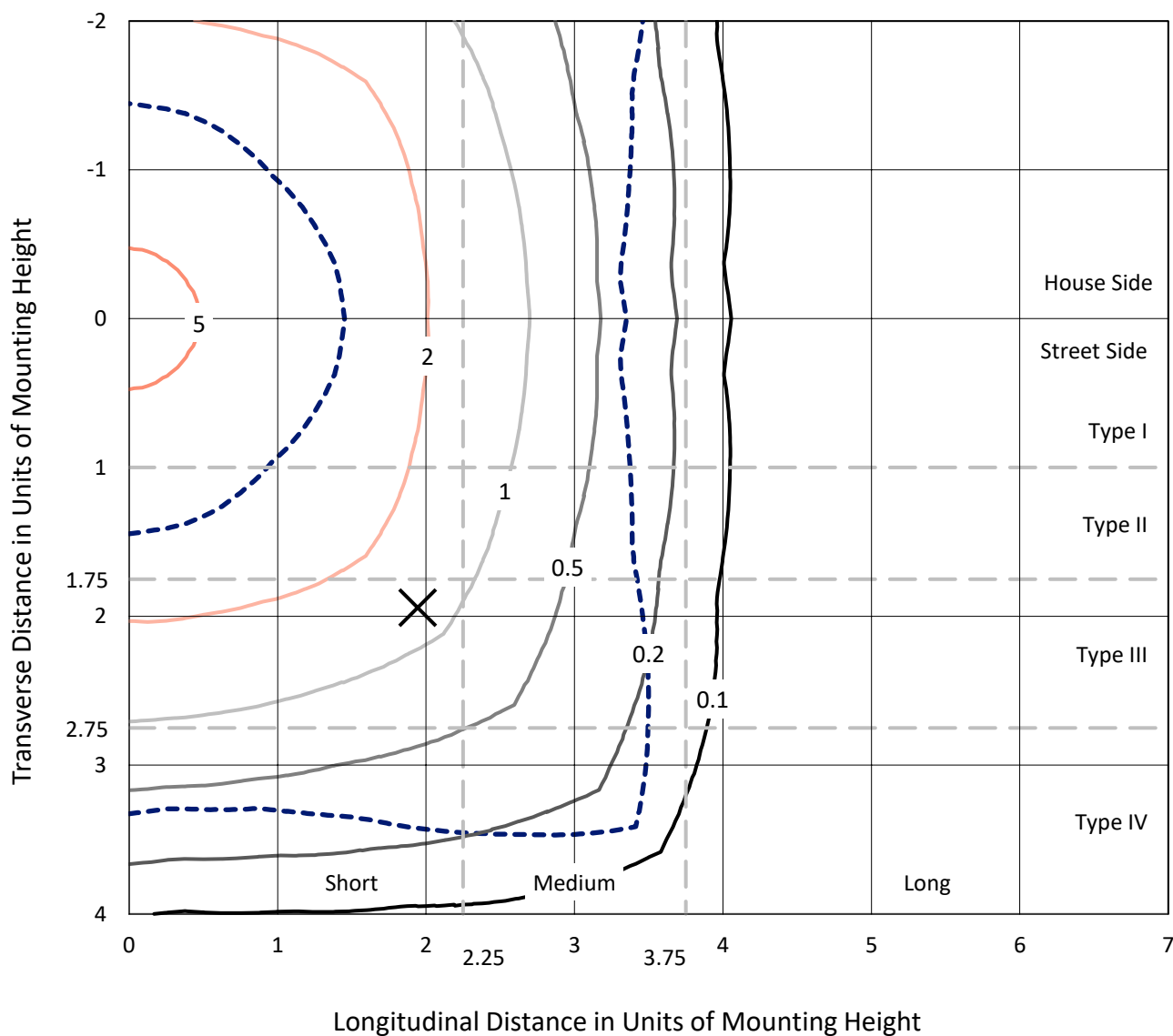
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

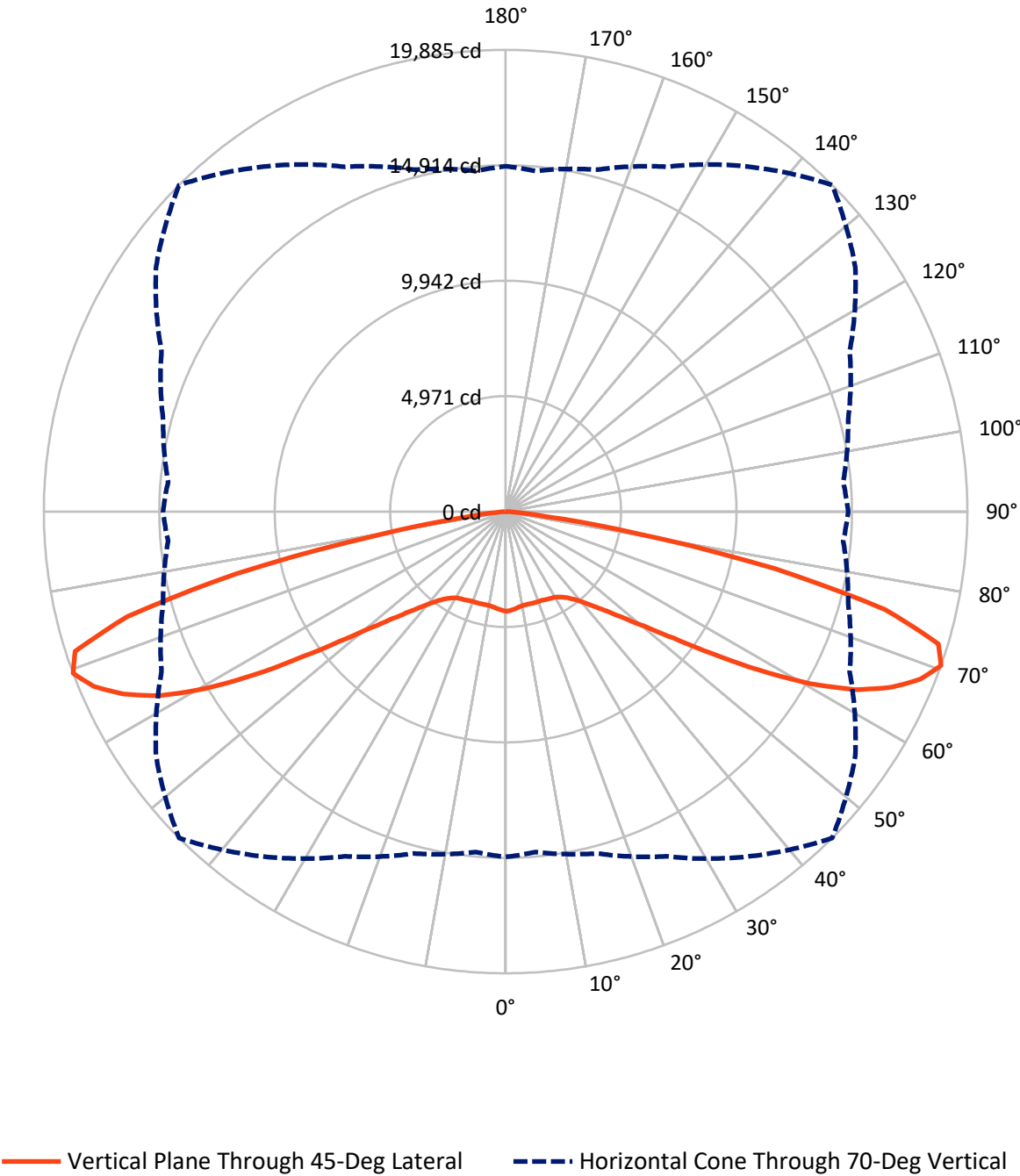


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc

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	23542.7	0.0	23542.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23542.7	0.0	23542.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	47085.4	0.0	47085.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	0.8
10°-20°	1173.2	2.5
20°-30°	1952.3	4.1
30°-40°	2952.5	6.3
40°-50°	4906.4	10.4
50°-60°	9258.2	19.7
60°-70°	15632.8	33.2
70°-80°	10272.4	21.8
80°-90°	538.2	1.1
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°	47085.4	100.0
0°-180°	47085.4	100.0

Coefficient of Utilization



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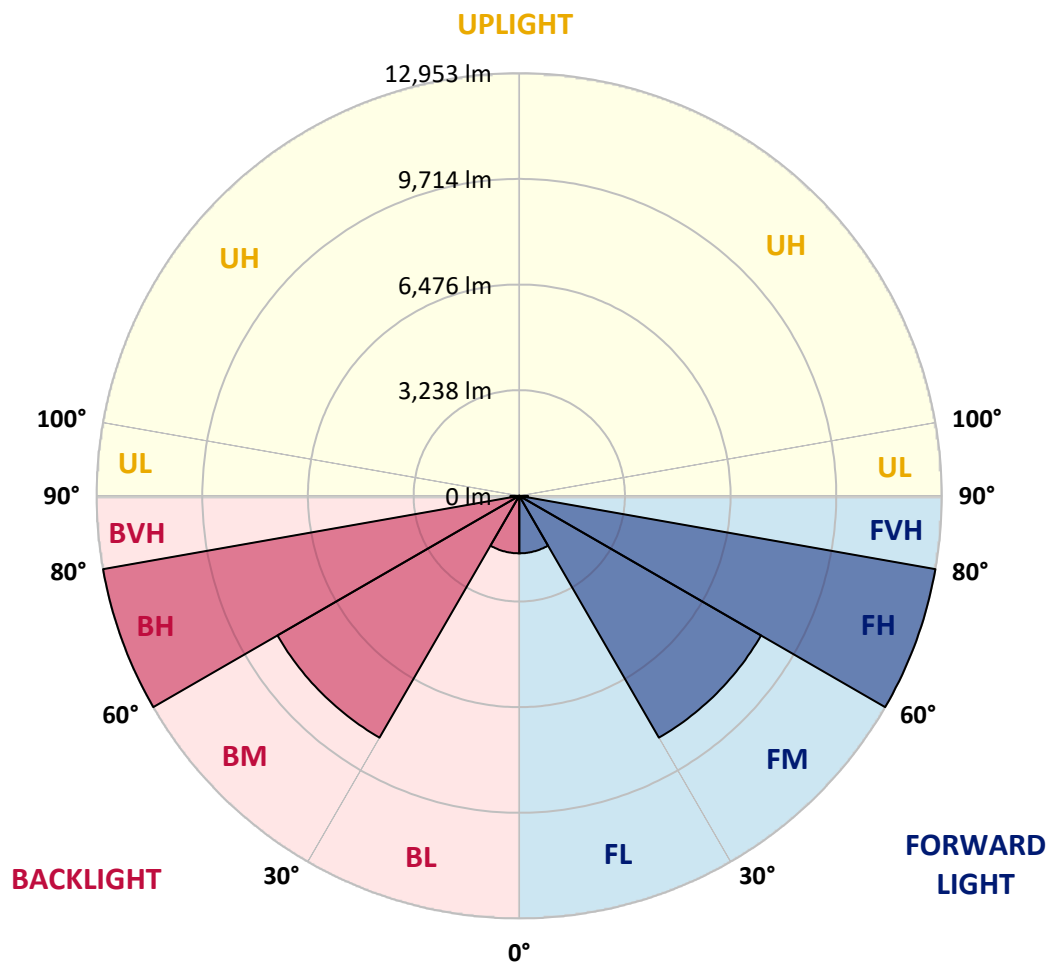
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.5	3.7			
FM	(30°-60°)	8558.5	18.2			
FH	(60°-80°)	12952.6	27.5			G5
FVH	(80°-90°)	269.1	0.6			G3/500
BL	(0°-30°)	1762.5	3.7	B3/2500		
BM	(30°-60°)	8558.5	18.2	B5		
BH	(60°-80°)	12952.6	27.5	B5		G5
BVH	(80°-90°)	269.1	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2
2.5°	4268.2	4280.5	4275.6	4265.7	4265.7	4258.5	4265.7	4270.7	4278.0	4282.9	4280.5
5°	4211.9	4221.7	4219.3	4211.9	4214.4	4207.0	4211.9	4219.3	4224.1	4226.6	4226.6
7.5°	4162.9	4172.8	4167.9	4155.7	4155.7	4148.3	4150.7	4158.1	4165.4	4167.9	4167.9
10°	4150.7	4160.6	4145.8	4126.2	4119.0	4109.1	4111.6	4119.0	4133.6	4141.0	4141.0
12.5°	4155.7	4162.9	4148.3	4119.0	4111.6	4101.8	4101.8	4109.1	4128.7	4138.5	4141.0
15°	4170.3	4177.7	4155.7	4123.8	4116.5	4109.1	4106.7	4116.5	4138.5	4155.7	4158.1
17.5°	4197.3	4204.5	4170.3	4126.2	4116.5	4119.0	4116.5	4123.8	4158.1	4189.9	4189.9
20°	4221.7	4226.6	4180.2	4126.2	4116.5	4119.0	4116.5	4131.2	4175.2	4219.3	4221.7
22.5°	4229.0	4234.0	4189.9	4143.4	4136.1	4138.5	4136.1	4150.7	4192.4	4236.4	4236.4
25°	4231.5	4238.9	4204.5	4167.9	4180.2	4185.0	4180.2	4182.5	4214.4	4253.5	4251.1
27.5°	4268.2	4278.0	4246.2	4214.4	4221.7	4219.3	4226.6	4234.0	4258.5	4297.6	4287.8
30°	4344.1	4351.4	4324.5	4292.7	4287.8	4270.7	4292.7	4317.2	4344.1	4378.4	4371.0
32.5°	4468.9	4483.6	4449.3	4415.1	4393.0	4383.2	4400.3	4441.9	4478.7	4515.4	4500.7
35°	4677.0	4686.7	4654.9	4591.3	4552.1	4552.1	4566.8	4620.6	4679.3	4725.9	4708.7
37.5°	4970.6	4982.8	4926.6	4850.7	4792.0	4792.0	4811.6	4867.8	4956.0	5022.0	4997.5
40°	5328.0	5345.1	5274.1	5195.7	5139.5	5129.7	5154.2	5217.8	5301.0	5384.2	5357.3
42.5°	5758.7	5778.2	5685.3	5616.7	5572.6	5572.6	5584.9	5643.6	5719.5	5822.3	5814.9
45°	6309.3	6343.6	6216.3	6147.8	6106.2	6116.0	6123.3	6174.7	6243.3	6360.7	6355.8
47.5°	6965.2	6999.5	6864.8	6793.9	6786.5	6833.1	6803.7	6840.4	6877.1	7011.7	6972.6
50°	7709.2	7768.0	7675.0	7670.1	7684.7	7770.4	7701.8	7721.4	7679.8	7765.5	7714.2
52.5°	8619.6	8705.3	8688.2	8717.5	8881.5	9057.7	8901.1	8832.5	8675.9	8702.9	8612.3
55°	9723.5	9853.1	9877.6	10053.8	10425.8	10785.6	10452.7	10176.2	9843.4	9782.2	9686.7
57.5°	10978.9	11081.7	11199.2	11558.9	12254.0	12892.8	12254.0	11642.2	11118.4	10993.6	10905.5
60°	12329.8	12457.1	12569.7	13100.8	14133.6	15031.7	14114.0	13142.3	12449.8	12280.9	12134.1
62.5°	13781.1	13945.1	14023.4	14613.2	15817.4	16889.3	15834.5	14657.3	13888.9	13707.7	13560.9
65°	15173.7	15308.3	15396.4	16025.4	17175.6	18250.0	17253.9	16093.9	15303.5	15066.1	14948.6
67.5°	15822.3	15895.7	16111.1	16823.2	18037.1	19263.2	18242.7	16899.1	16015.6	15599.6	15604.5
70°	14872.6	14723.4	15242.3	16382.7	18139.9	19884.9	18374.9	16348.4	15266.8	14591.3	14752.7
72.5°	11492.8	11235.8	12136.5	14087.1	16965.2	19488.4	17082.6	14197.2	12697.0	11326.5	11666.7
75°	6253.0	5961.8	7205.0	9672.0	13529.1	16891.8	13839.9	9948.5	8022.5	6206.6	6610.3
77.5°	1764.5	1654.5	2657.8	4679.3	8137.5	11860.0	8450.8	4782.1	3152.2	1869.8	2077.8
80°	540.9	523.8	709.7	1409.7	3455.7	5680.3	3321.1	1426.8	903.1	570.2	602.1
82.5°	320.6	293.7	352.4	513.9	881.1	1784.1	856.6	536.0	430.7	288.7	313.2
85°	183.6	171.3	208.1	249.6	296.1	379.4	247.2	254.5	230.0	154.2	161.5
87.5°	75.8	68.6	80.8	78.3	68.6	88.1	66.1	78.3	93.0	61.2	56.3
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)