

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: P970285

Luminaire Tested: **NAV-SB6B-727-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970285  
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-SB6B-727-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

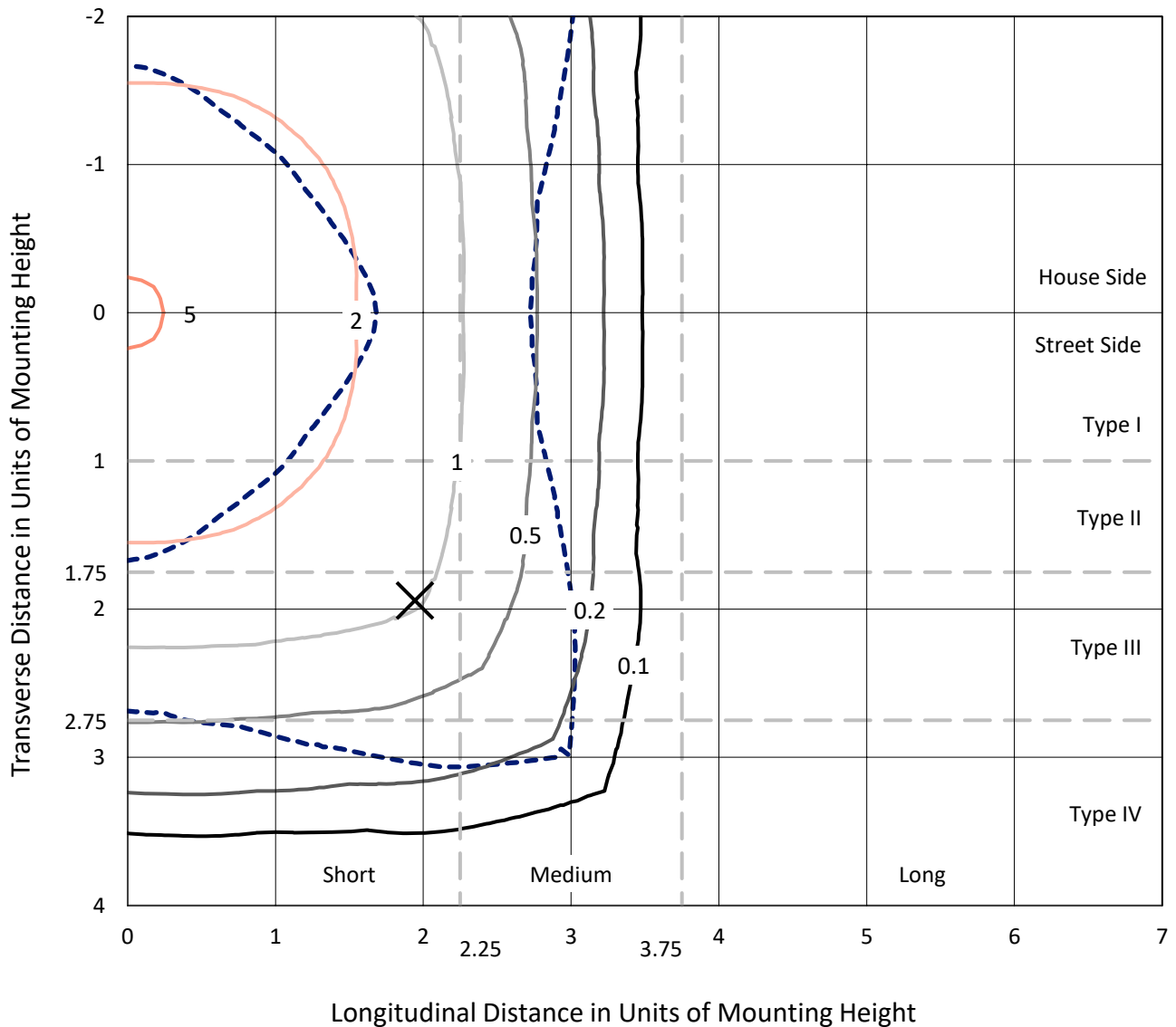
Lumens per Lamp: N/A  
Luminaire Lumens: 33998.2 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

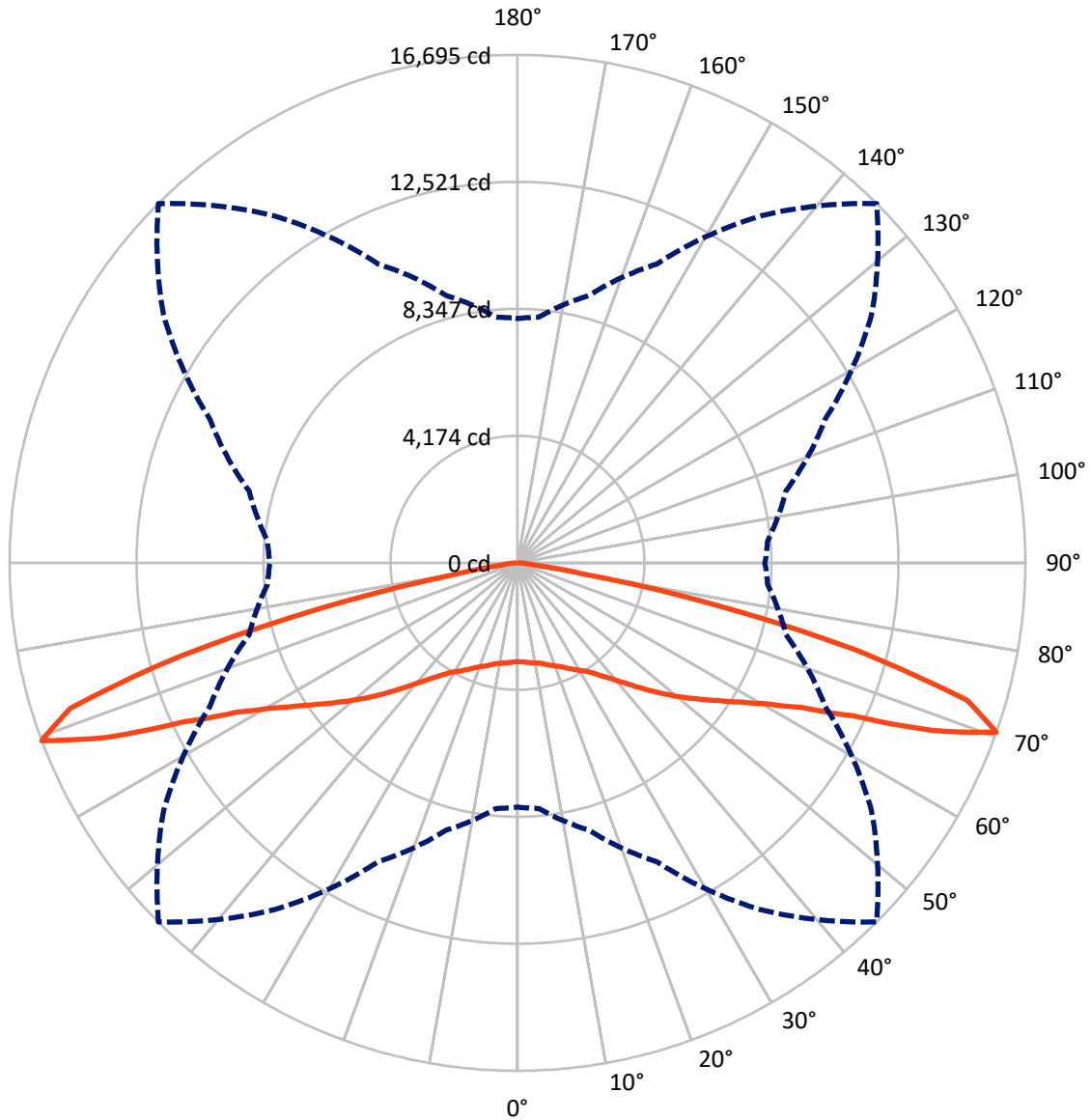
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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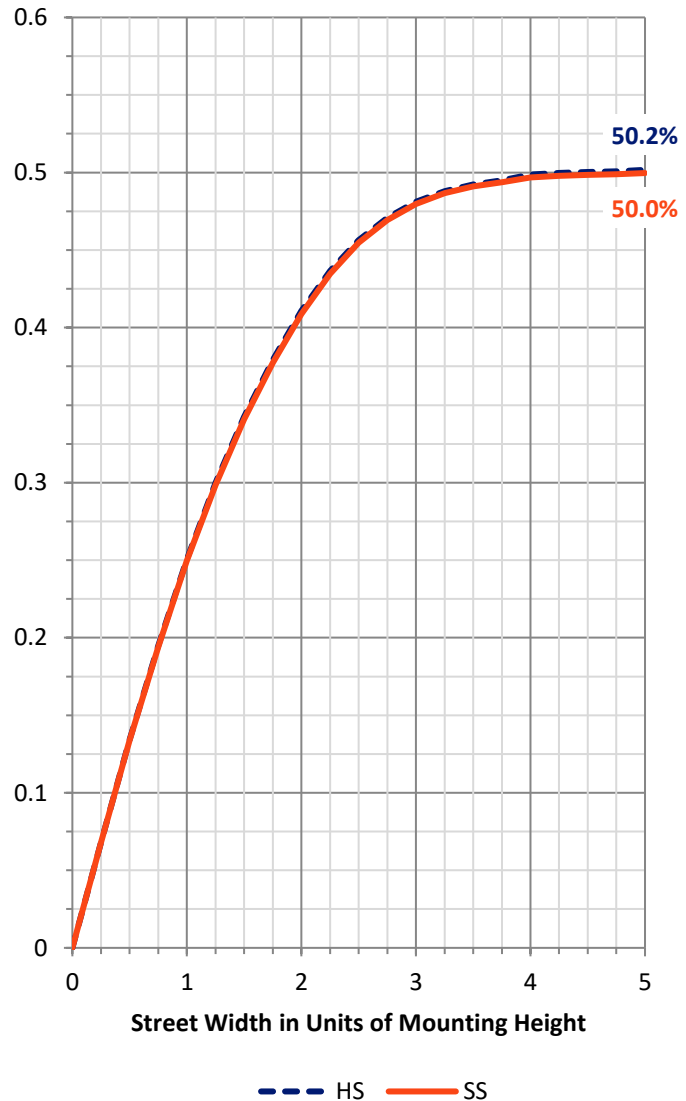
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16999.1	0.0	16999.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16999.1	0.0	16999.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33998.2	0.0	33998.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.4	0.9
10°-20°	981.1	2.9
20°-30°	1753.3	5.2
30°-40°	2842.1	8.4
40°-50°	4629.3	13.6
50°-60°	7058.1	20.8
60°-70°	10500.2	30.9
70°-80°	5722.9	16.8
80°-90°	194.9	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°	33998.2	100.0
0°-180°	33998.2	100.0

**Coefficient of Utilization**



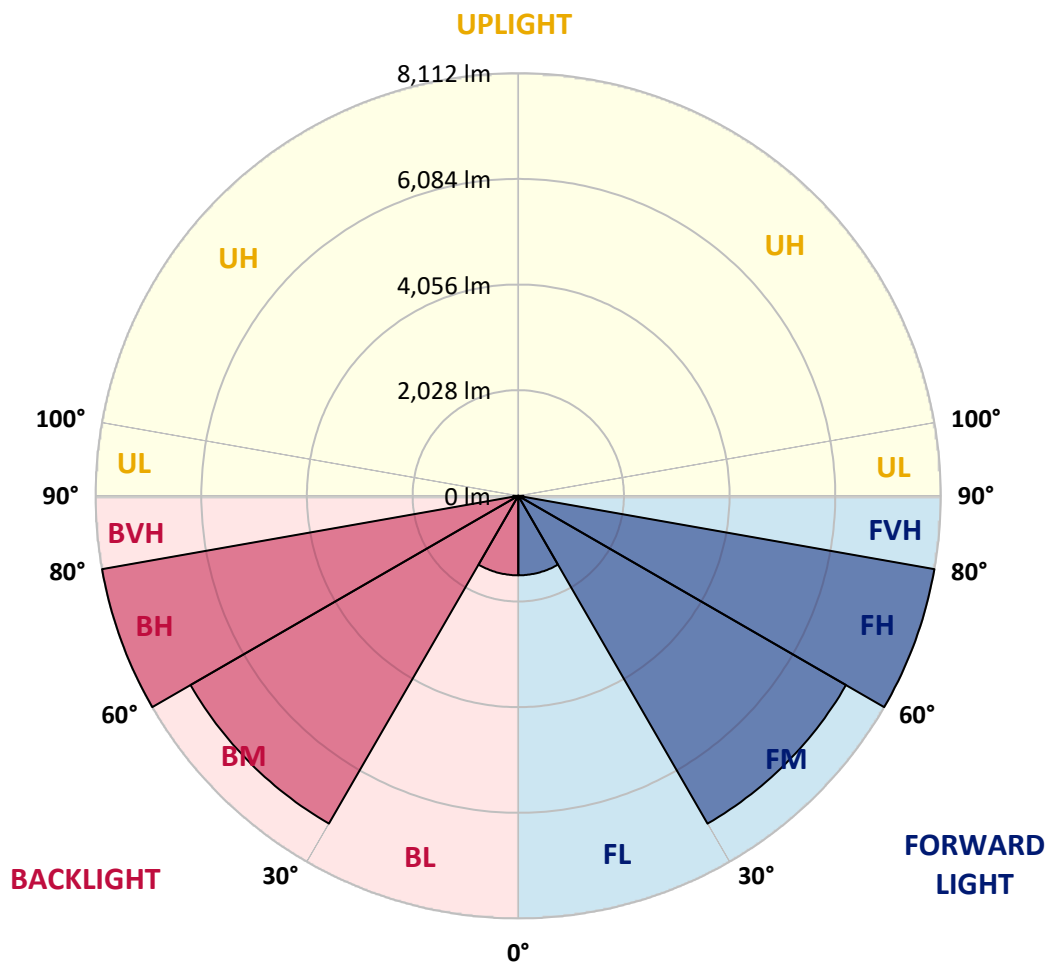
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.4	4.5			
FM (30°-60°)	7264.7	21.4			
FH (60°-80°)	8111.6	23.9			G4/12000
FVH (80°-90°)	97.4	0.3			G1/100
BL (0°-30°)	1525.4	4.5	B3/2500		
BM (30°-60°)	7264.7	21.4	B4/8500		
BH (60°-80°)	8111.6	23.9	B5		G4/12000
BVH (80°-90°)	97.4	0.3			G1/100
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°	3256.6	3256.6	3256.6	3256.6	3256.6	3256.6	3256.6	3256.6	3256.6	3256.6	3256.6
2.5°	3272.0	3275.5	3268.6	3265.2	3261.8	3256.6	3258.4	3266.9	3273.7	3272.0	3273.7
5°	3299.4	3302.8	3297.6	3295.9	3289.1	3287.4	3287.4	3295.9	3301.0	3297.6	3299.4
7.5°	3330.1	3335.1	3326.6	3325.0	3321.5	3318.1	3316.4	3325.0	3330.1	3330.1	3330.1
10°	3359.1	3364.3	3357.4	3352.3	3348.9	3348.9	3345.4	3352.3	3360.8	3359.1	3359.1
12.5°	3389.8	3393.3	3386.4	3383.0	3383.0	3388.1	3383.0	3386.4	3393.3	3389.8	3388.1
15°	3427.4	3429.0	3427.4	3432.5	3441.0	3458.0	3442.8	3439.3	3442.8	3434.2	3434.2
17.5°	3478.5	3482.0	3488.8	3500.8	3512.7	3543.4	3516.2	3507.6	3507.6	3490.5	3490.5
20°	3541.7	3546.8	3557.1	3577.6	3592.9	3621.9	3594.7	3582.7	3577.6	3555.4	3555.4
22.5°	3608.3	3616.8	3632.2	3659.5	3686.8	3714.1	3686.8	3666.3	3650.9	3621.9	3620.2
25°	3685.1	3695.3	3719.2	3763.6	3801.2	3840.5	3808.0	3767.0	3736.3	3695.3	3693.6
27.5°	3794.3	3806.2	3835.3	3889.9	3937.7	3971.9	3941.1	3888.2	3845.5	3796.1	3794.3
30°	3948.0	3959.9	3994.0	4052.0	4084.5	4106.7	4086.2	4045.3	3994.0	3937.7	3937.7
32.5°	4145.9	4161.3	4198.9	4253.4	4260.3	4263.7	4256.9	4236.4	4198.9	4130.5	4132.3
35°	4396.8	4414.0	4456.6	4501.0	4494.1	4501.0	4490.7	4483.9	4456.6	4378.1	4378.1
37.5°	4704.1	4724.5	4768.9	4803.0	4786.0	4777.5	4779.2	4780.9	4765.5	4678.5	4678.5
40°	5060.8	5088.1	5120.6	5156.4	5127.4	5101.8	5118.8	5132.5	5118.8	5030.1	5030.1
42.5°	5427.8	5467.0	5501.2	5552.4	5528.5	5496.0	5519.9	5535.3	5506.3	5410.8	5417.5
45°	5835.7	5873.2	5917.6	5994.5	5977.4	5943.3	5977.4	5980.8	5931.4	5818.6	5830.6
47.5°	6257.3	6296.6	6363.2	6465.6	6458.7	6421.2	6465.6	6441.7	6378.5	6243.7	6235.2
50°	6656.8	6711.4	6813.8	6957.2	6970.8	6924.7	6984.5	6938.3	6832.5	6663.5	6660.1
52.5°	7032.2	7090.2	7252.4	7447.0	7496.5	7436.8	7516.9	7436.8	7278.0	7061.2	7040.7
55°	7426.5	7491.4	7684.2	7938.6	8037.5	7993.2	8068.3	7947.1	7721.8	7458.9	7423.2
57.5°	7890.8	7930.0	8160.4	8462.6	8629.9	8640.1	8674.3	8469.4	8196.3	7897.6	7856.6
60°	8394.3	8449.0	8699.8	9061.7	9326.3	9411.6	9375.8	9072.0	8754.4	8411.4	8356.7
62.5°	9039.5	9099.2	9399.7	9833.2	10251.3	10463.0	10323.1	9882.6	9490.1	9078.7	9007.1
65°	9573.7	9640.3	10183.1	10956.3	11717.6	12142.6	11791.0	10980.2	10273.6	9693.2	9597.7
67.5°	9186.3	9268.3	10119.9	11540.1	13432.9	14701.2	13497.8	11714.1	10329.8	9543.1	9425.3
70°	8029.0	8105.8	9099.2	10835.1	13916.0	16694.8	14206.2	11154.3	9131.6	8250.9	8133.2
72.5°	5330.5	5578.0	6583.4	8665.7	12425.9	15448.7	12548.8	8489.9	6107.2	5318.5	5146.1
75°	1768.3	1966.3	2652.5	4492.5	8322.6	11553.7	7923.2	3975.3	2101.1	1512.3	1430.4
77.5°	445.5	513.7	708.4	1285.2	3319.9	6578.2	2988.7	1049.7	571.7	399.4	356.7
80°	216.8	238.9	341.3	428.4	831.3	2090.9	780.0	402.8	269.7	208.3	191.2
82.5°	119.5	121.2	192.9	242.4	308.9	541.1	320.9	235.5	155.3	126.3	126.3
85°	73.4	71.6	102.4	129.8	129.8	192.9	153.6	129.8	88.8	78.5	81.9
87.5°	29.0	29.0	37.5	41.0	35.9	49.5	39.3	42.6	34.1	32.4	34.1
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)