

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: P970814

Luminaire Tested: **NAV-SB6C-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970814
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43673.2 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

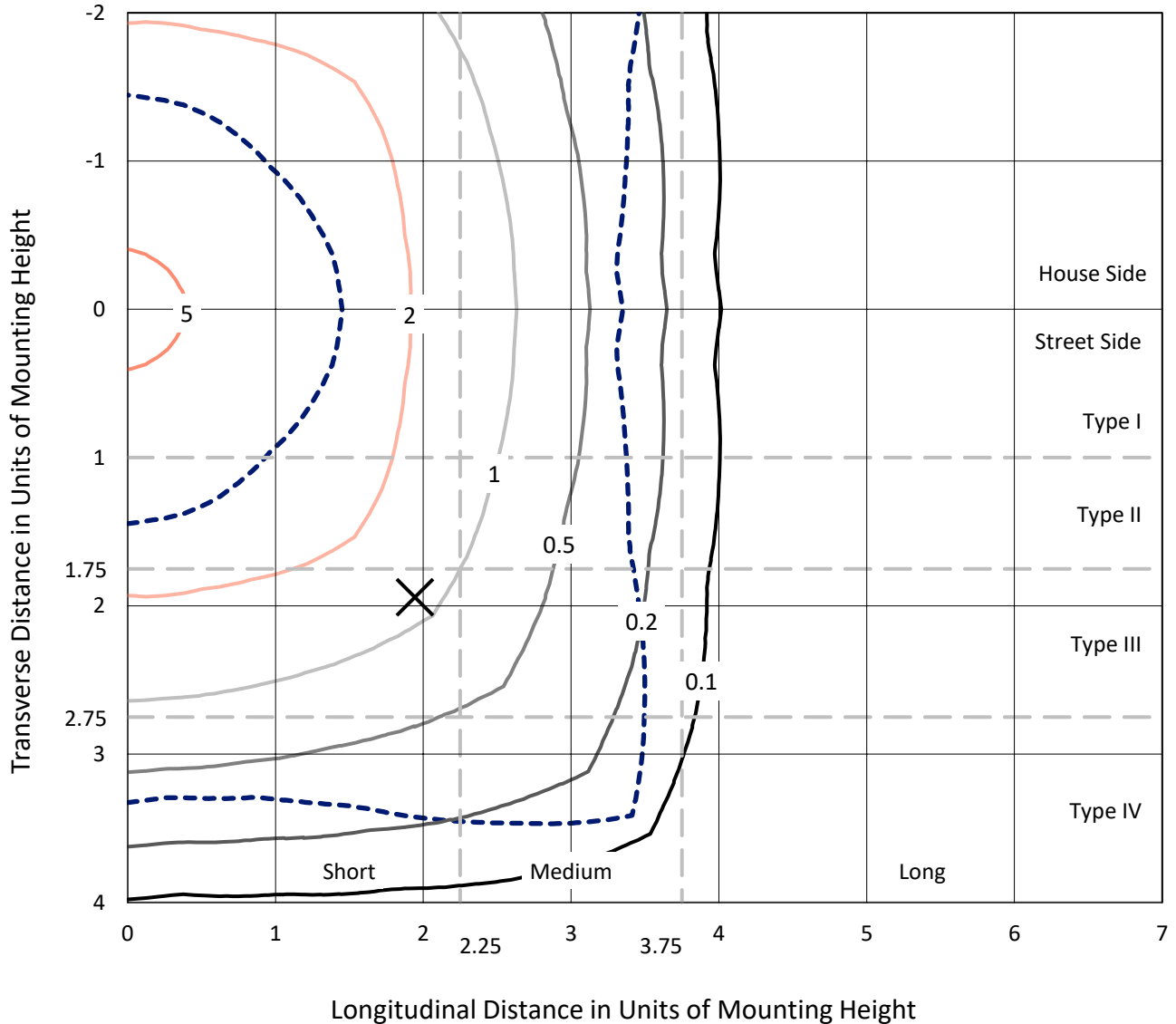
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

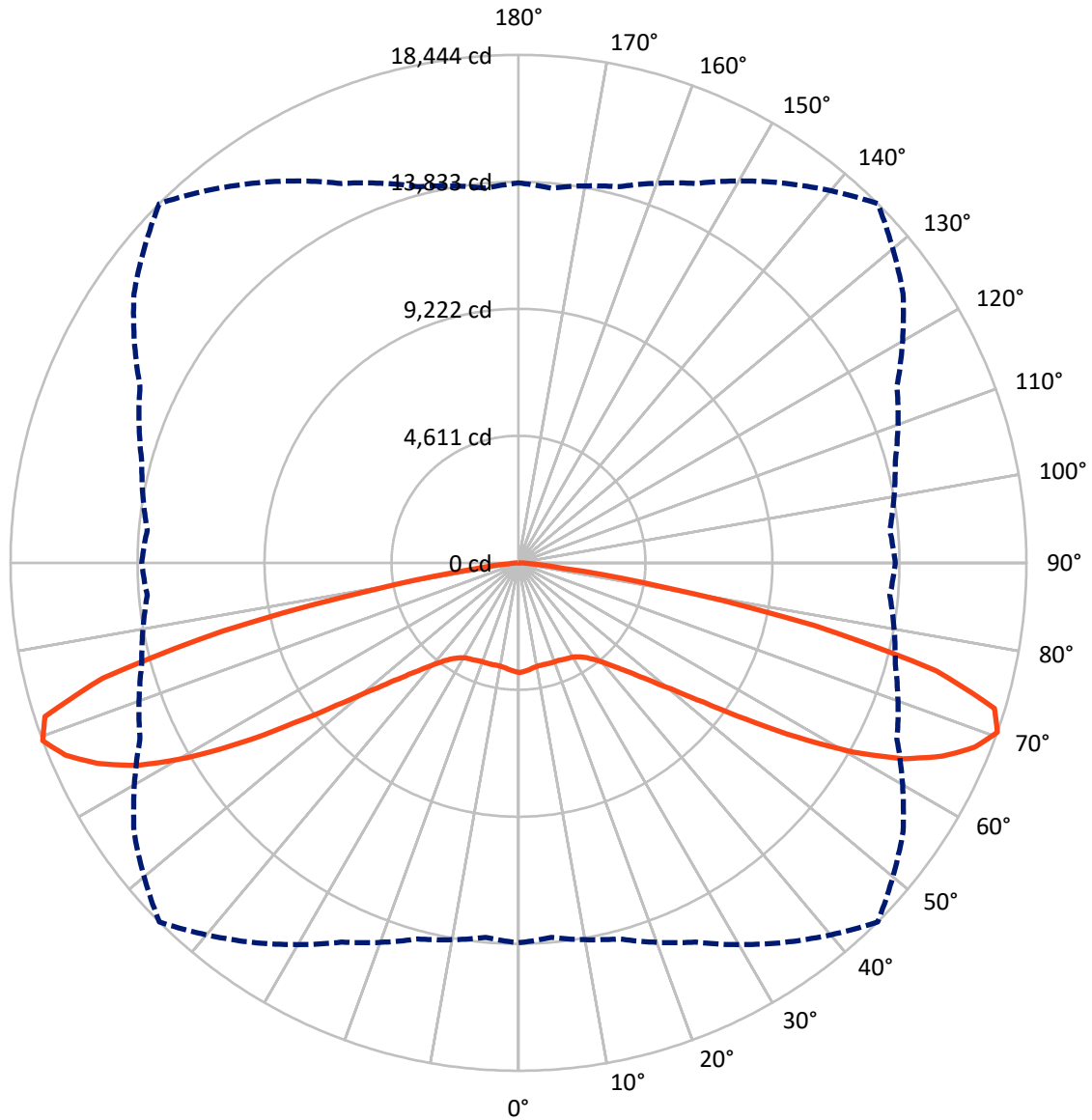
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	21836.6	0.0	21836.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21836.6	0.0	21836.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	43673.2	0.0	43673.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	0.8
10°-20°	1088.2	2.5
20°-30°	1810.8	4.1
30°-40°	2738.5	6.3
40°-50°	4550.8	10.4
50°-60°	8587.2	19.7
60°-70°	14499.9	33.2
70°-80°	9527.9	21.8
80°-90°	499.2	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°	43673.2	100.0
0°-180°	43673.2	100.0

Coefficient of Utilization

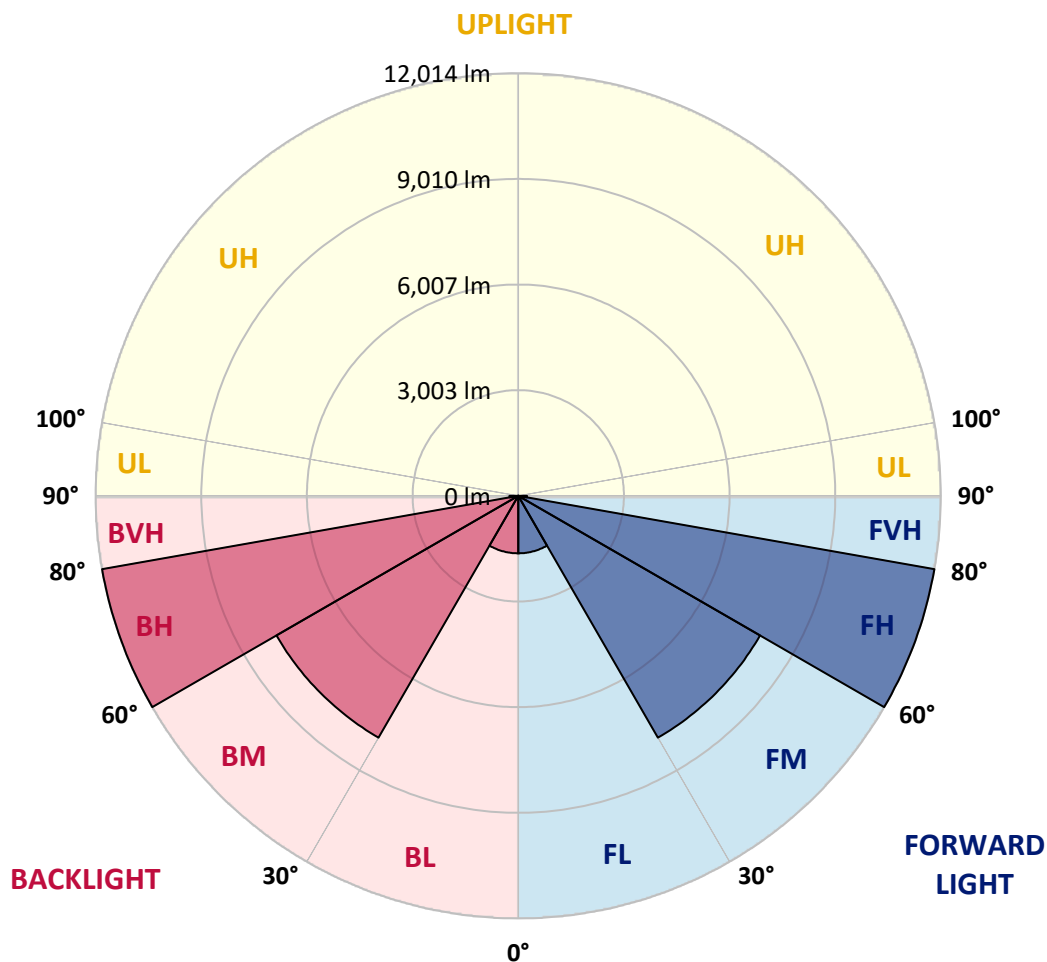


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.8	3.7			
FM (30°-60°)	7938.3	18.2			
FH (60°-80°)	12013.9	27.5			G5
FVH (80°-90°)	249.6	0.6			G3/500
BL (0°-30°)	1634.8	3.7	B3/2500		
BM (30°-60°)	7938.3	18.2	B4/8500		
BH (60°-80°)	12013.9	27.5	B5		G5
BVH (80°-90°)	249.6	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°	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9
2.5°	3958.9	3970.2	3965.7	3956.6	3956.6	3949.8	3956.6	3961.2	3968.0	3972.5	3970.2
5°	3906.7	3915.8	3913.6	3906.7	3908.9	3902.2	3906.7	3913.6	3918.1	3920.3	3920.3
7.5°	3861.3	3870.4	3865.8	3854.5	3854.5	3847.6	3849.9	3856.8	3863.5	3865.8	3865.8
10°	3849.9	3859.0	3845.4	3827.2	3820.5	3811.4	3813.6	3820.5	3834.0	3840.9	3840.9
12.5°	3854.5	3861.3	3847.6	3820.5	3813.6	3804.6	3804.6	3811.4	3829.5	3838.6	3840.9
15°	3868.1	3874.9	3854.5	3825.0	3818.1	3811.4	3809.1	3818.1	3838.6	3854.5	3856.8
17.5°	3893.1	3899.9	3868.1	3827.2	3818.1	3820.5	3818.1	3825.0	3856.8	3886.3	3886.3
20°	3915.8	3920.3	3877.2	3827.2	3818.1	3820.5	3818.1	3831.8	3872.7	3913.6	3915.8
22.5°	3922.6	3927.1	3886.3	3843.1	3836.4	3838.6	3836.4	3849.9	3888.5	3929.4	3929.4
25°	3924.8	3931.7	3899.9	3865.8	3877.2	3881.7	3877.2	3879.4	3908.9	3945.3	3943.0
27.5°	3958.9	3968.0	3938.5	3908.9	3915.8	3913.6	3920.3	3927.1	3949.8	3986.1	3977.1
30°	4029.3	4036.0	4011.1	3981.6	3977.1	3961.2	3981.6	4004.3	4029.3	4061.0	4054.3
32.5°	4145.0	4158.6	4126.9	4095.1	4074.7	4065.6	4081.4	4120.1	4154.1	4188.2	4174.5
35°	4338.0	4347.1	4317.6	4258.6	4222.2	4222.2	4235.8	4285.8	4340.3	4383.4	4367.5
37.5°	4610.4	4621.7	4569.6	4499.1	4444.7	4444.7	4462.8	4515.0	4596.8	4658.1	4635.4
40°	4941.8	4957.7	4891.9	4819.2	4767.1	4757.9	4780.6	4839.6	4916.8	4994.0	4969.1
42.5°	5341.4	5359.5	5273.2	5209.7	5168.9	5168.9	5180.1	5234.7	5305.0	5400.3	5393.5
45°	5852.1	5883.9	5765.8	5702.3	5663.6	5672.8	5679.5	5727.3	5790.8	5899.8	5895.2
47.5°	6460.5	6492.2	6367.4	6301.6	6294.7	6337.9	6310.6	6344.6	6378.8	6503.6	6467.2
50°	7150.5	7205.0	7118.7	7114.2	7127.8	7207.3	7143.7	7161.9	7123.3	7202.8	7155.1
52.5°	7995.0	8074.4	8058.6	8085.8	8237.9	8401.3	8256.1	8192.5	8047.2	8072.2	7988.1
55°	9018.8	9139.1	9161.8	9325.2	9670.3	10004.0	9695.3	9438.7	9130.0	9073.2	8984.7
57.5°	10183.3	10278.6	10387.6	10721.3	11365.9	11958.5	11365.9	10798.5	10312.6	10196.9	10115.2
60°	11436.3	11554.4	11658.8	12151.4	13109.3	13942.5	13091.2	12190.0	11547.5	11390.9	11254.7
62.5°	12782.5	12934.6	13007.1	13554.3	14671.1	15665.4	14687.0	13595.1	12882.3	12714.3	12578.2
65°	14074.1	14198.9	14280.7	14864.0	15931.0	16927.5	16003.6	14927.6	14194.4	13974.2	13865.3
67.5°	14675.6	14743.7	14943.5	15604.1	16730.0	17867.3	16920.7	15674.4	14855.0	14469.1	14473.6
70°	13794.9	13656.4	14137.6	15195.5	16825.4	18443.8	17043.3	15163.6	14160.4	13533.8	13683.6
72.5°	10660.0	10421.6	11257.0	13066.2	15735.7	18076.1	15844.7	13168.4	11776.8	10505.6	10821.1
75°	5799.9	5529.8	6682.9	8971.1	12548.7	15667.6	12836.9	9227.6	7441.1	5756.7	6131.3
77.5°	1636.7	1534.5	2465.2	4340.3	7547.8	11000.5	7838.4	4435.6	2923.8	1734.3	1927.2
80°	501.6	485.7	658.3	1307.5	3205.3	5268.7	3080.4	1323.4	837.6	528.9	558.4
82.5°	297.4	272.4	326.9	476.7	817.2	1654.9	794.5	497.1	399.5	267.8	290.6
85°	170.3	158.9	192.9	231.5	274.7	351.9	229.3	236.1	213.4	143.0	149.9
87.5°	70.4	63.6	74.9	72.7	63.6	81.7	61.3	72.7	86.3	56.8	52.2
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)