

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: P970817

Luminaire Tested: **NAV-SB6C-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44461.4 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

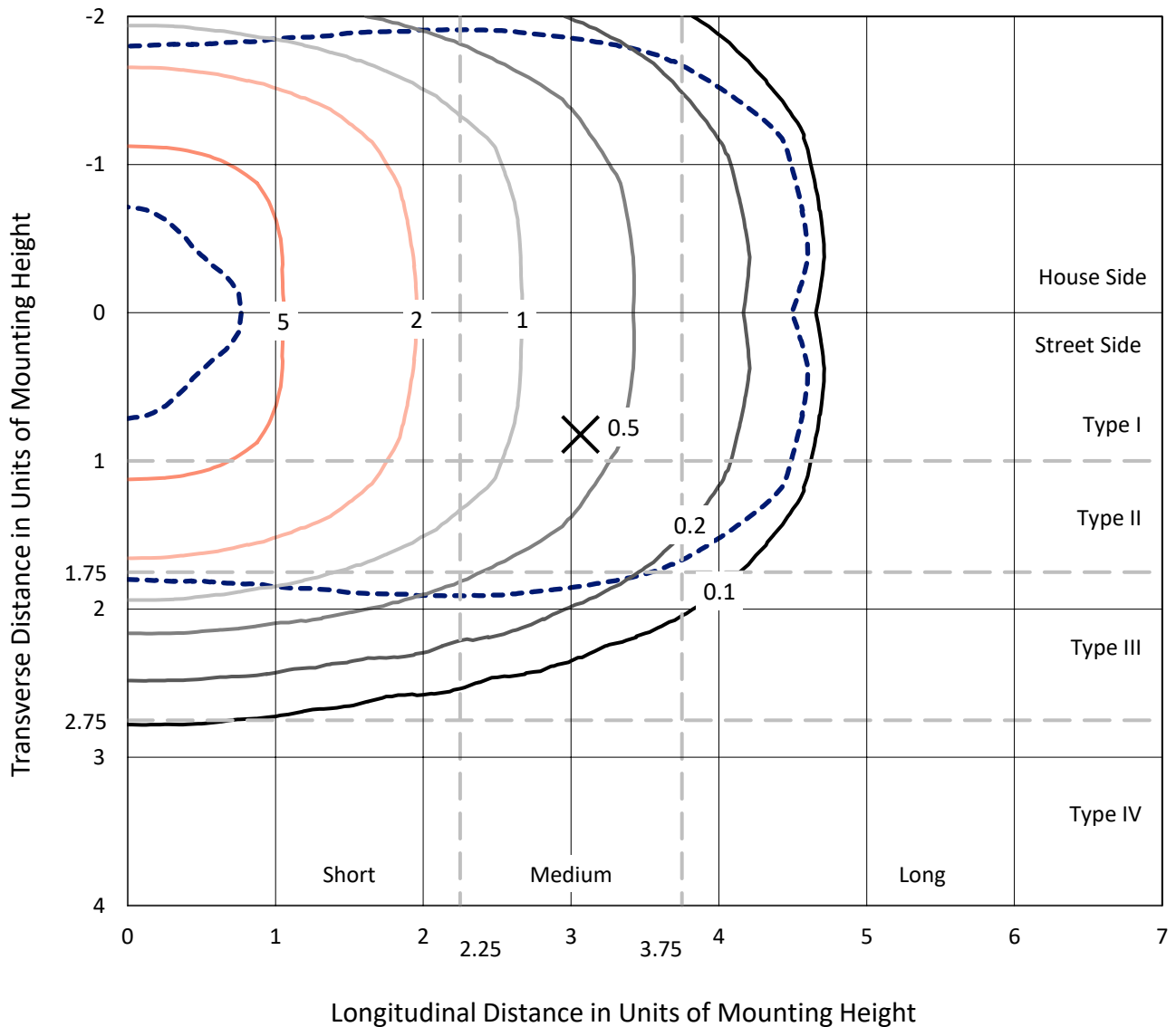
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

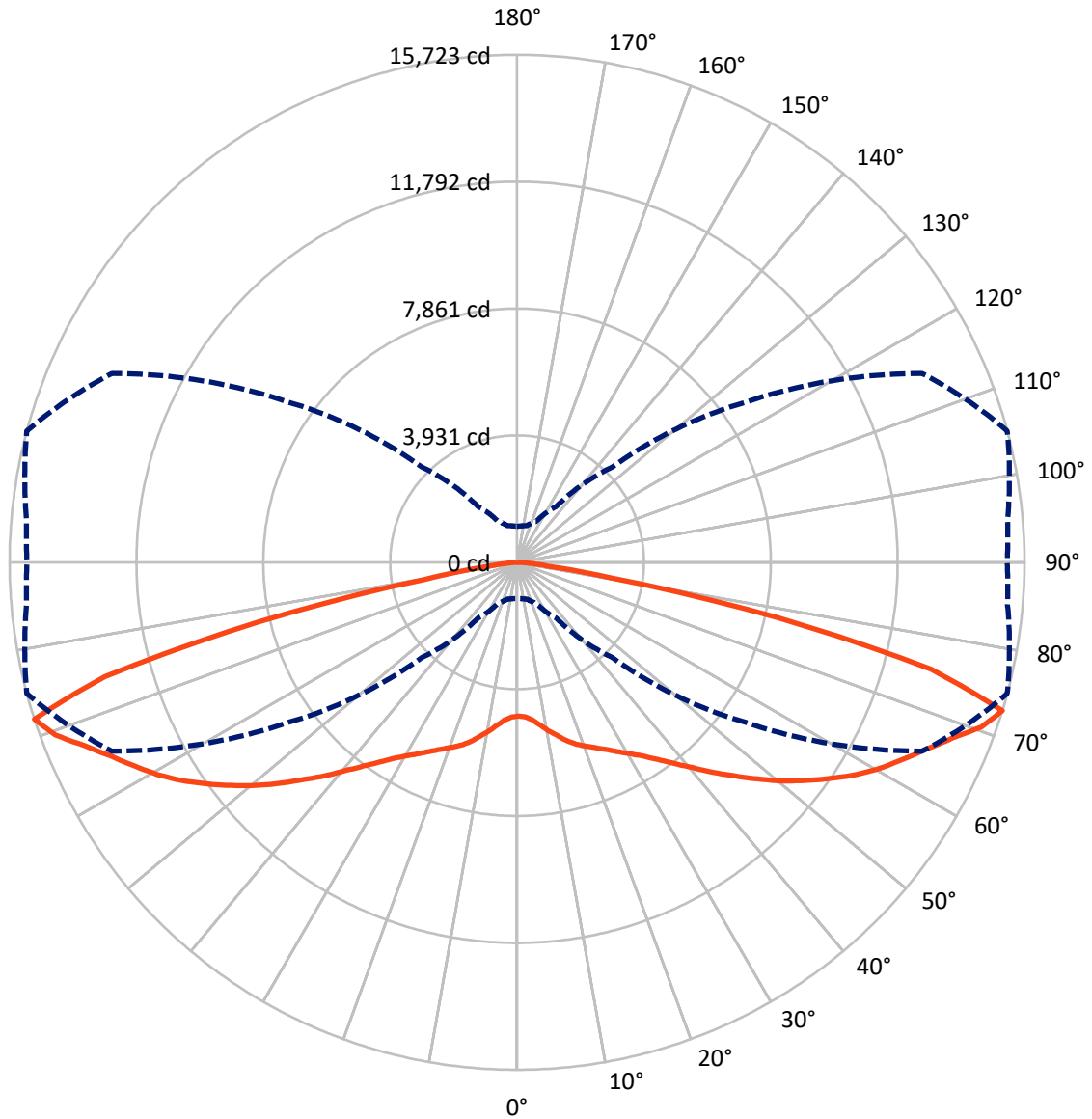
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22230.7	0.0	22230.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22230.7	0.0	22230.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	44461.4	0.0	44461.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	1.0
10°-20°	1538.7	3.5
20°-30°	2973.3	6.7
30°-40°	5020.6	11.3
40°-50°	7962.1	17.9
50°-60°	10660.3	24.0
60°-70°	10145.2	22.8
70°-80°	5293.9	11.9
80°-90°	400.7	0.9
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°	44461.4	100.0
0°-180°	44461.4	100.0

Coefficient of Utilization

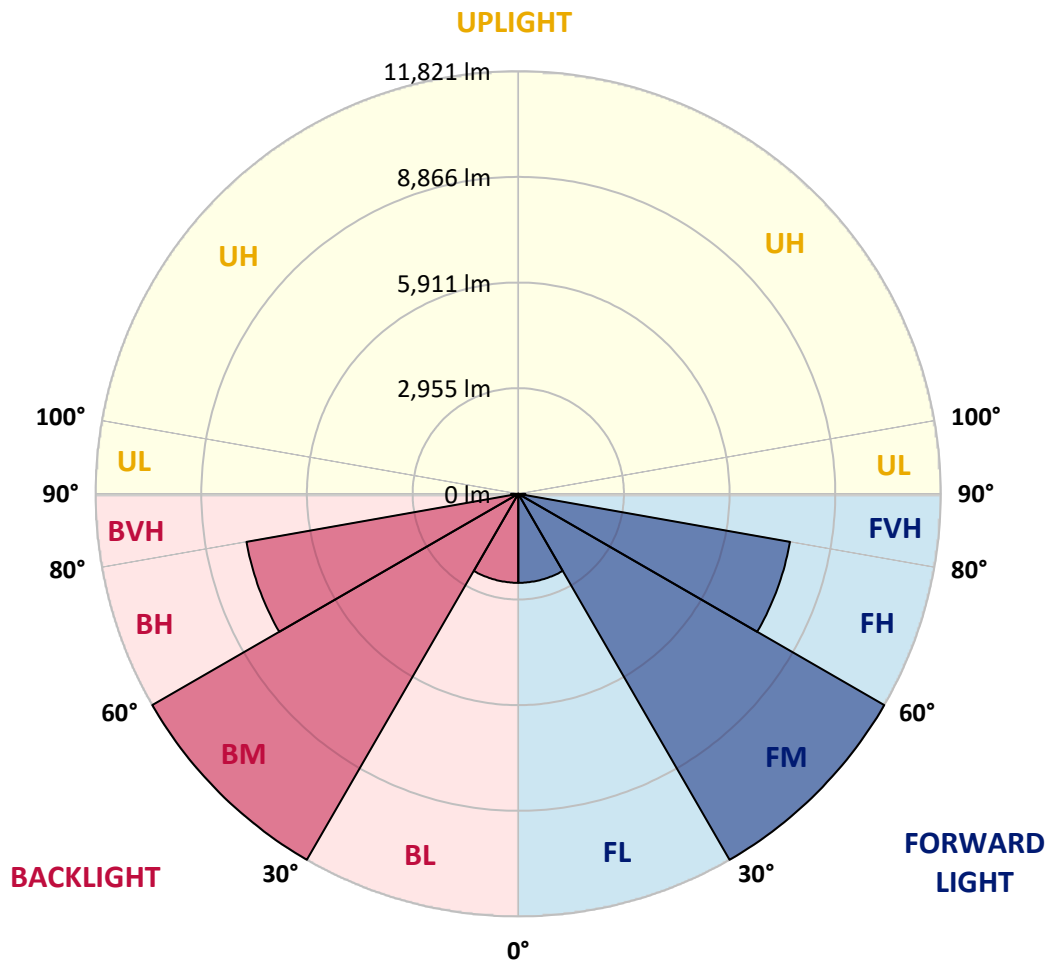


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2489.3	5.6			
FM (30°-60°)	11821.5	26.6			
FH (60°-80°)	7719.6	17.4			G4/12000
FVH (80°-90°)	200.4	0.5			G2/225
BL (0°-30°)	2489.3	5.6	B3/2500		
BM (30°-60°)	11821.5	26.6	B5		
BH (60°-80°)	7719.6	17.4	B5		G5
BVH (80°-90°)	200.4	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7
2.5°	4762.7	4758.0	4762.7	4767.2	4764.9	4764.9	4776.2	4783.1	4796.7	4794.4	4792.1
5°	4730.8	4728.5	4746.8	4767.2	4783.1	4810.3	4844.4	4869.3	4901.1	4907.9	4907.9
7.5°	4714.9	4708.1	4739.9	4776.2	4826.2	4894.3	4960.1	5028.2	5082.7	5100.8	5105.4
10°	4726.3	4728.5	4771.7	4839.8	4919.3	5014.6	5107.7	5223.4	5300.6	5318.8	5337.0
12.5°	4778.5	4773.9	4846.6	4955.6	5064.5	5184.9	5293.8	5420.9	5505.0	5548.0	5566.3
15°	4873.9	4864.8	4966.9	5128.1	5287.1	5427.8	5516.2	5636.6	5734.2	5788.7	5809.1
17.5°	4987.3	4991.9	5125.8	5334.7	5543.5	5702.4	5786.4	5847.7	5922.7	5970.3	5993.0
20°	5187.1	5196.2	5346.0	5593.4	5831.8	6013.5	6081.5	6058.9	6079.3	6115.6	6142.8
22.5°	5454.9	5459.6	5627.6	5895.4	6145.1	6344.9	6390.3	6297.2	6240.4	6265.4	6283.6
25°	5766.0	5795.5	5963.4	6238.2	6494.7	6685.4	6705.8	6565.0	6424.3	6431.2	6442.4
27.5°	6145.1	6172.3	6342.6	6615.0	6876.0	7041.7	7039.5	6851.1	6644.5	6592.3	6608.2
30°	6556.0	6585.5	6760.3	7041.7	7284.7	7429.9	7398.1	7173.5	6878.4	6780.7	6792.1
32.5°	7044.0	7062.2	7239.3	7520.7	7745.5	7861.2	7795.4	7518.5	7150.7	7039.5	7066.8
35°	7634.3	7661.5	7793.2	8058.8	8256.3	8351.6	8240.4	7913.5	7500.3	7375.5	7393.6
37.5°	8308.4	8290.3	8440.2	8676.2	8839.7	8898.6	8746.6	8358.4	7899.9	7752.3	7779.5
40°	9012.2	9003.1	9166.6	9393.6	9482.1	9518.5	9293.7	8869.2	8360.7	8201.7	8254.0
42.5°	9650.1	9643.3	9863.5	10115.4	10222.1	10181.3	9897.5	9411.8	8894.1	8712.5	8757.9
45°	10160.8	10151.8	10421.9	10776.0	10984.9	10916.8	10535.5	10011.1	9434.4	9246.0	9289.2
47.5°	10553.6	10558.1	10848.7	11286.8	11652.3	11677.2	11187.0	10621.7	10029.2	9815.8	9879.4
50°	10837.3	10851.0	11161.9	11647.8	12147.2	12367.3	11852.1	11248.2	10644.4	10403.8	10476.4
52.5°	10907.7	10932.6	11307.3	11877.0	12465.0	12885.0	12528.6	11849.8	11227.7	10998.6	11057.5
55°	10533.1	10583.1	11057.5	11858.8	12660.2	13225.5	13123.3	12460.4	11815.7	11579.6	11645.4
57.5°	9672.8	9743.1	10297.0	11343.6	12617.0	13459.3	13584.1	13046.1	12403.7	12176.7	12228.9
60°	8467.4	8551.4	9082.5	10224.4	12008.7	13545.6	13908.7	13615.9	12944.0	12723.7	12771.4
62.5°	6649.1	6758.0	7393.6	8733.0	10723.9	13143.7	14185.7	14131.2	13429.8	13155.1	13186.8
65°	4265.4	4381.3	5050.9	6633.2	9010.0	11913.4	14272.0	14632.9	13942.8	13559.1	13606.8
67.5°	2572.0	2624.2	2955.6	4020.3	6585.5	10058.7	13541.0	15189.1	14542.1	14065.4	14101.7
70°	1645.8	1675.4	1872.8	2360.9	3722.9	7339.1	11729.5	15293.5	15268.5	14585.2	14580.7
72.5°	1116.8	1126.0	1178.1	1398.4	2106.6	4170.1	8651.2	13845.2	15722.6	15254.9	15182.3
75°	817.2	867.2	951.2	989.7	1196.4	2083.9	4957.8	9727.2	13250.4	13454.8	12959.9
77.5°	608.3	610.7	726.4	771.8	853.5	1110.1	2097.6	5430.0	8226.8	8637.7	7704.6
80°	515.3	488.1	485.7	622.0	642.5	692.4	937.6	1875.0	2946.6	1786.6	1350.7
82.5°	429.1	399.5	360.9	485.7	438.1	424.6	406.3	762.7	937.6	460.8	392.7
85°	299.6	286.1	272.4	317.9	249.7	213.4	195.3	356.4	395.0	195.3	172.5
87.5°	129.4	134.0	136.2	140.7	104.4	74.9	74.9	99.8	99.8	77.2	56.8
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)