

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: P881592

Luminaire Tested: **NAV-SB1A-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

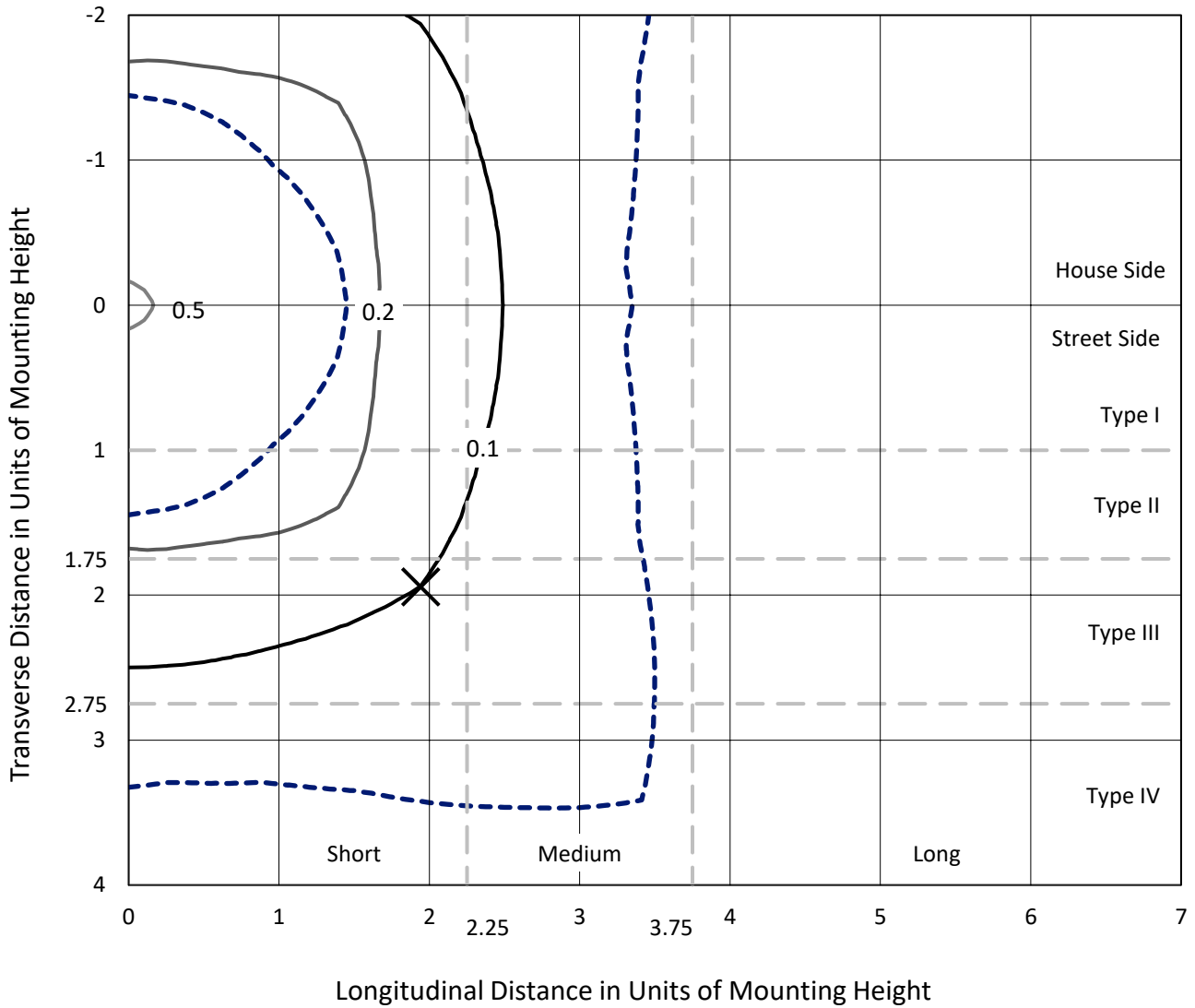
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

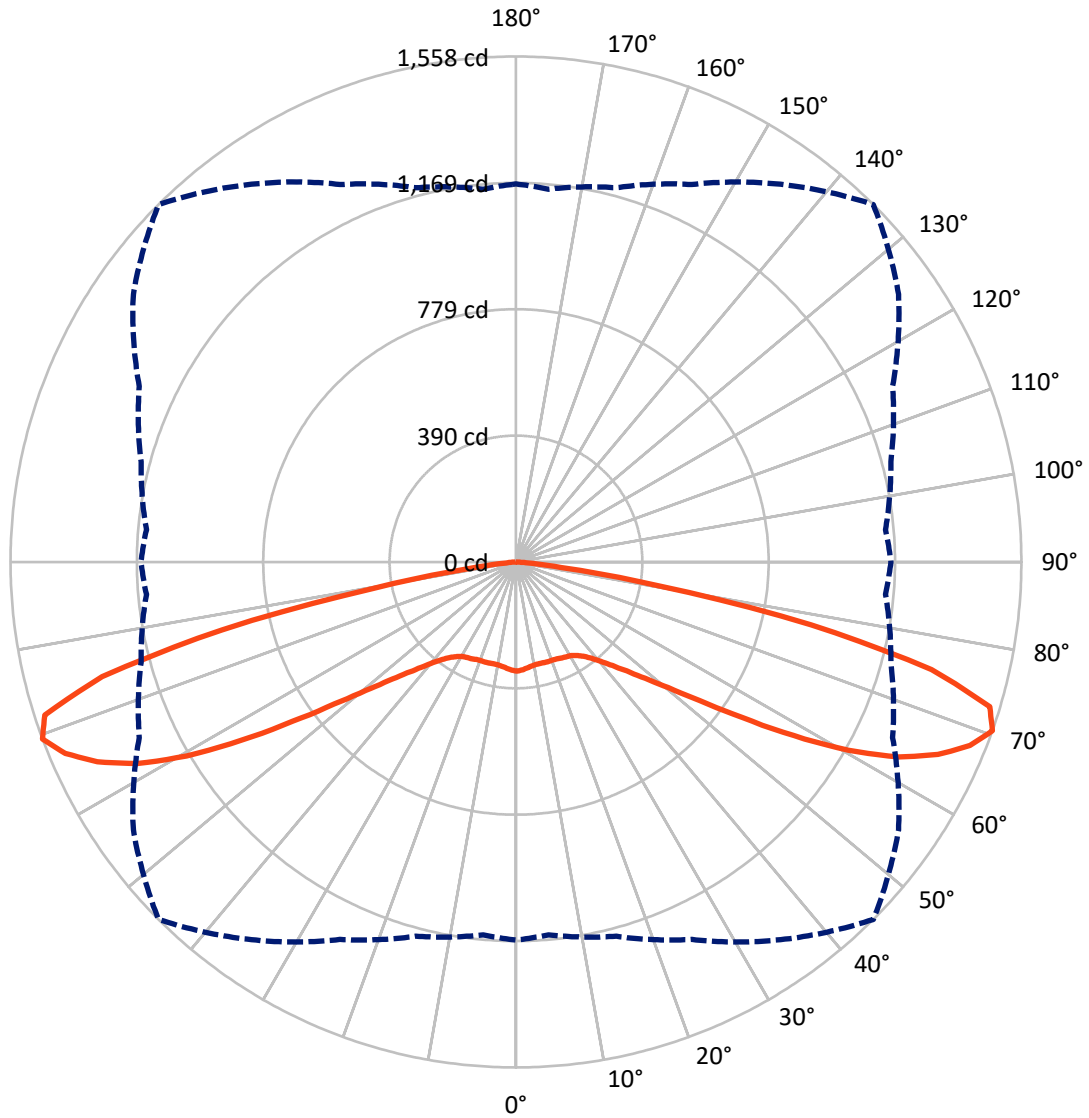
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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	1845.0	0.0	1845.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1845.0	0.0	1845.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3690.0	0.0	3690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	0.8
10°-20°	91.9	2.5
20°-30°	153.0	4.1
30°-40°	231.4	6.3
40°-50°	384.5	10.4
50°-60°	725.5	19.7
60°-70°	1225.1	33.2
70°-80°	805.0	21.8
80°-90°	42.2	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°	3690.0	100.0
0°-180°	3690.0	100.0

Coefficient of Utilization

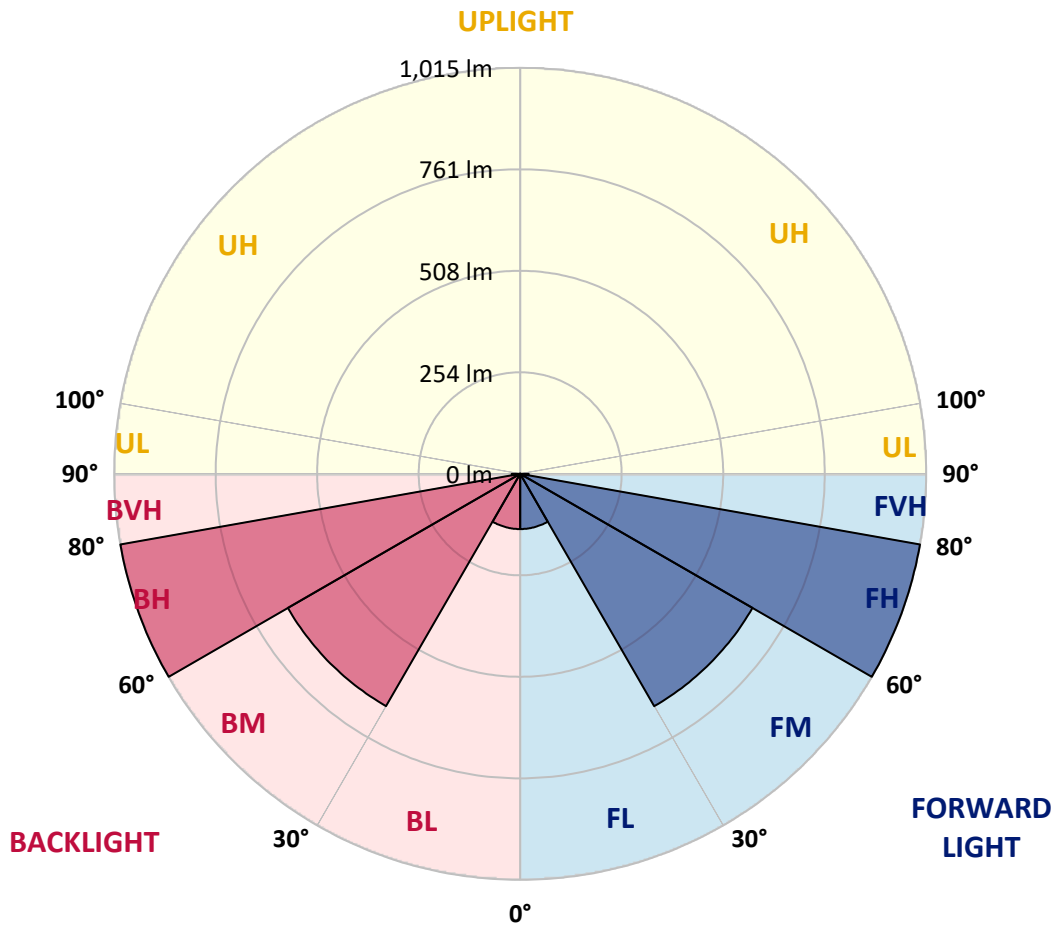


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.1	3.7			
FM (30°-60°)	670.7	18.2			
FH (60°-80°)	1015.1	27.5			G1/1800
FVH (80°-90°)	21.1	0.6			G1/100
BL (0°-30°)	138.1	3.7	B1/500		
BM (30°-60°)	670.7	18.2	B1/1000		
BH (60°-80°)	1015.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	21.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6
2.5°	334.5	335.5	335.1	334.3	334.3	333.7	334.3	334.7	335.3	335.6	335.5
5°	330.1	330.8	330.7	330.1	330.3	329.7	330.1	330.7	331.0	331.2	331.2
7.5°	326.2	327.0	326.6	325.7	325.7	325.1	325.3	325.9	326.4	326.6	326.6
10°	325.3	326.1	324.9	323.4	322.8	322.0	322.2	322.8	323.9	324.5	324.5
12.5°	325.7	326.2	325.1	322.8	322.2	321.5	321.5	322.0	323.6	324.3	324.5
15°	326.8	327.4	325.7	323.2	322.6	322.0	321.8	322.6	324.3	325.7	325.9
17.5°	328.9	329.5	326.8	323.4	322.6	322.8	322.6	323.2	325.9	328.4	328.4
20°	330.8	331.2	327.6	323.4	322.6	322.8	322.6	323.8	327.2	330.7	330.8
22.5°	331.4	331.8	328.4	324.7	324.1	324.3	324.1	325.3	328.5	332.0	332.0
25°	331.6	332.2	329.5	326.6	327.6	328.0	327.6	327.8	330.3	333.3	333.1
27.5°	334.5	335.3	332.8	330.3	330.8	330.7	331.2	331.8	333.7	336.8	336.0
30°	340.4	341.0	338.9	336.4	336.0	334.7	336.4	338.3	340.4	343.1	342.5
32.5°	350.2	351.4	348.7	346.0	344.3	343.5	344.8	348.1	351.0	353.9	352.7
35°	366.5	367.3	364.8	359.8	356.7	356.7	357.9	362.1	366.7	370.4	369.0
37.5°	389.5	390.5	386.1	380.1	375.5	375.5	377.1	381.5	388.4	393.6	391.6
40°	417.5	418.9	413.3	407.2	402.8	402.0	403.9	408.9	415.4	422.0	419.8
42.5°	451.3	452.8	445.5	440.2	436.7	436.7	437.7	442.3	448.2	456.3	455.7
45°	494.5	497.1	487.2	481.8	478.5	479.3	479.9	483.9	489.3	498.5	498.1
47.5°	545.9	548.5	538.0	532.4	531.9	535.5	533.2	536.1	538.9	549.5	546.4
50°	604.2	608.8	601.5	601.1	602.2	609.0	603.6	605.1	601.9	608.6	604.5
52.5°	675.5	682.2	680.9	683.2	696.0	709.8	697.6	692.2	679.9	682.0	674.9
55°	762.0	772.2	774.1	787.9	817.1	845.2	819.2	797.5	771.4	766.6	759.1
57.5°	860.4	868.5	877.7	905.9	960.3	1010.4	960.3	912.4	871.3	861.5	854.6
60°	966.3	976.2	985.1	1026.7	1107.6	1178.0	1106.1	1029.9	975.7	962.4	950.9
62.5°	1080.0	1092.9	1099.0	1145.2	1239.6	1323.6	1240.9	1148.7	1088.4	1074.3	1062.7
65°	1189.1	1199.7	1206.6	1255.9	1346.0	1430.2	1352.2	1261.3	1199.3	1180.7	1171.5
67.5°	1240.0	1245.7	1262.6	1318.4	1413.5	1509.6	1429.6	1324.4	1255.1	1222.5	1222.9
70°	1165.5	1153.8	1194.5	1283.9	1421.6	1558.3	1440.0	1281.2	1196.4	1143.5	1156.1
72.5°	900.7	880.5	951.1	1104.0	1329.5	1527.3	1338.7	1112.6	995.0	887.6	914.3
75°	490.0	467.2	564.6	758.0	1060.2	1323.8	1084.6	779.7	628.7	486.4	518.0
77.5°	138.3	129.7	208.3	366.7	637.7	929.4	662.3	374.8	247.0	146.5	162.8
80°	42.4	41.0	55.6	110.5	270.8	445.2	260.3	111.8	70.8	44.7	47.2
82.5°	25.1	23.0	27.6	40.3	69.0	139.8	67.1	42.0	33.8	22.6	24.5
85°	14.4	13.4	16.3	19.6	23.2	29.7	19.4	19.9	18.0	12.1	12.7
87.5°	5.9	5.4	6.3	6.1	5.4	6.9	5.2	6.1	7.3	4.8	4.4
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)