

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: P882892

Luminaire Tested: **NAV-SB3A-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882892
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-SB3A-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12334 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

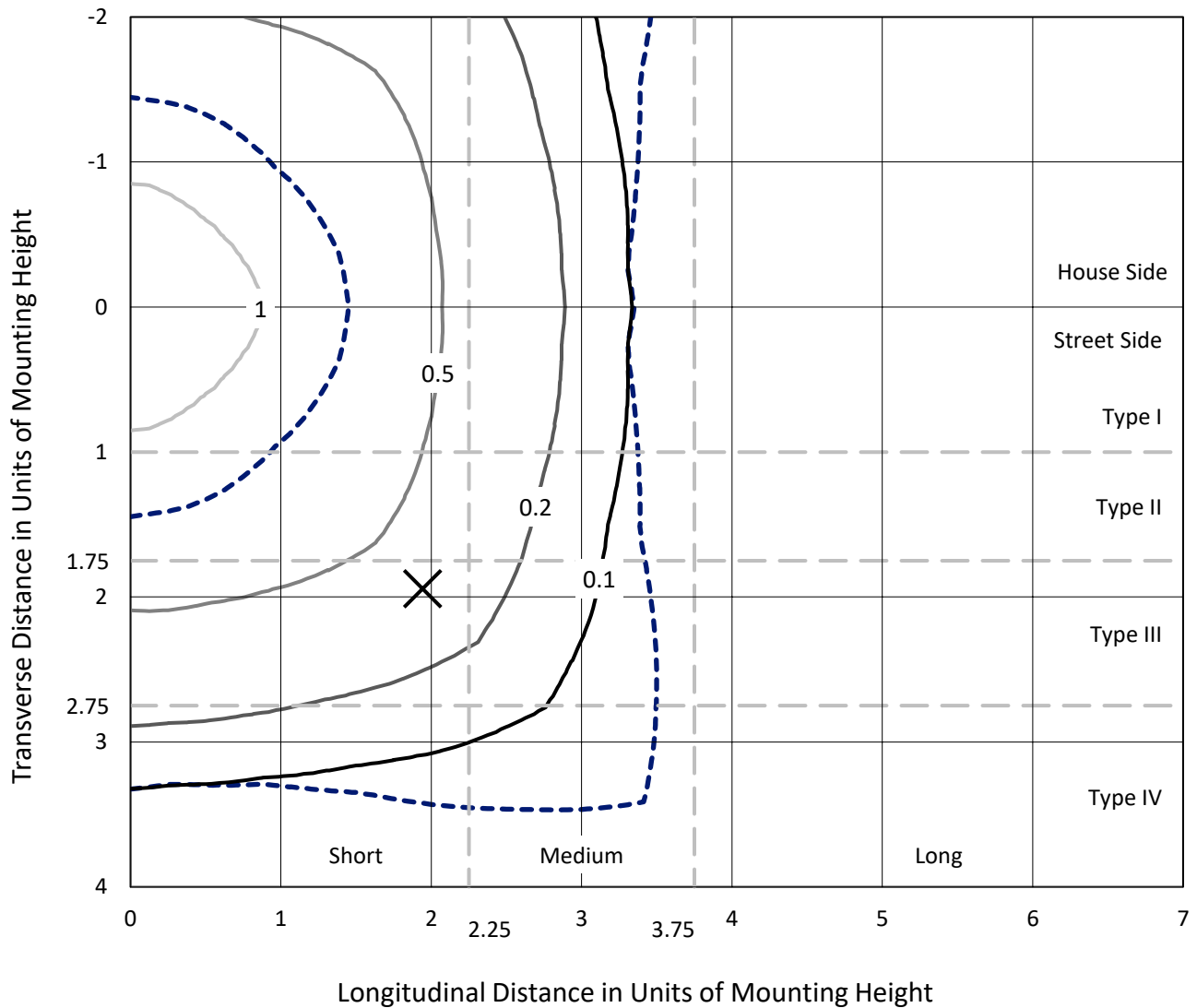
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

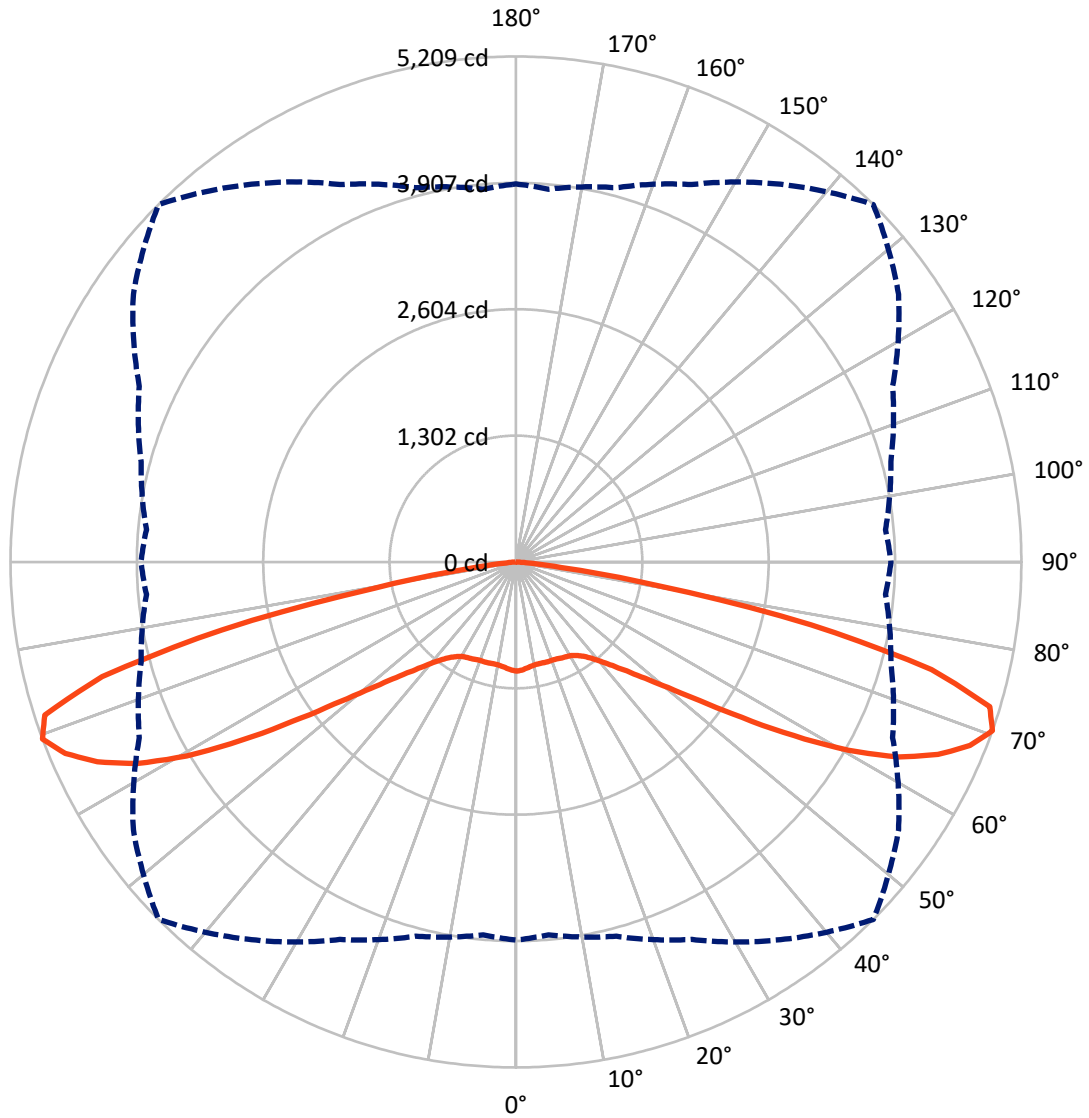
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	6167.0	0.0	6167.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6167.0	0.0	6167.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12334.0	0.0	12334.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	0.8
10°-20°	307.3	2.5
20°-30°	511.4	4.1
30°-40°	773.4	6.3
40°-50°	1285.2	10.4
50°-60°	2425.2	19.7
60°-70°	4095.0	33.2
70°-80°	2690.8	21.8
80°-90°	141.0	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°	12334.0	100.0
0°-180°	12334.0	100.0



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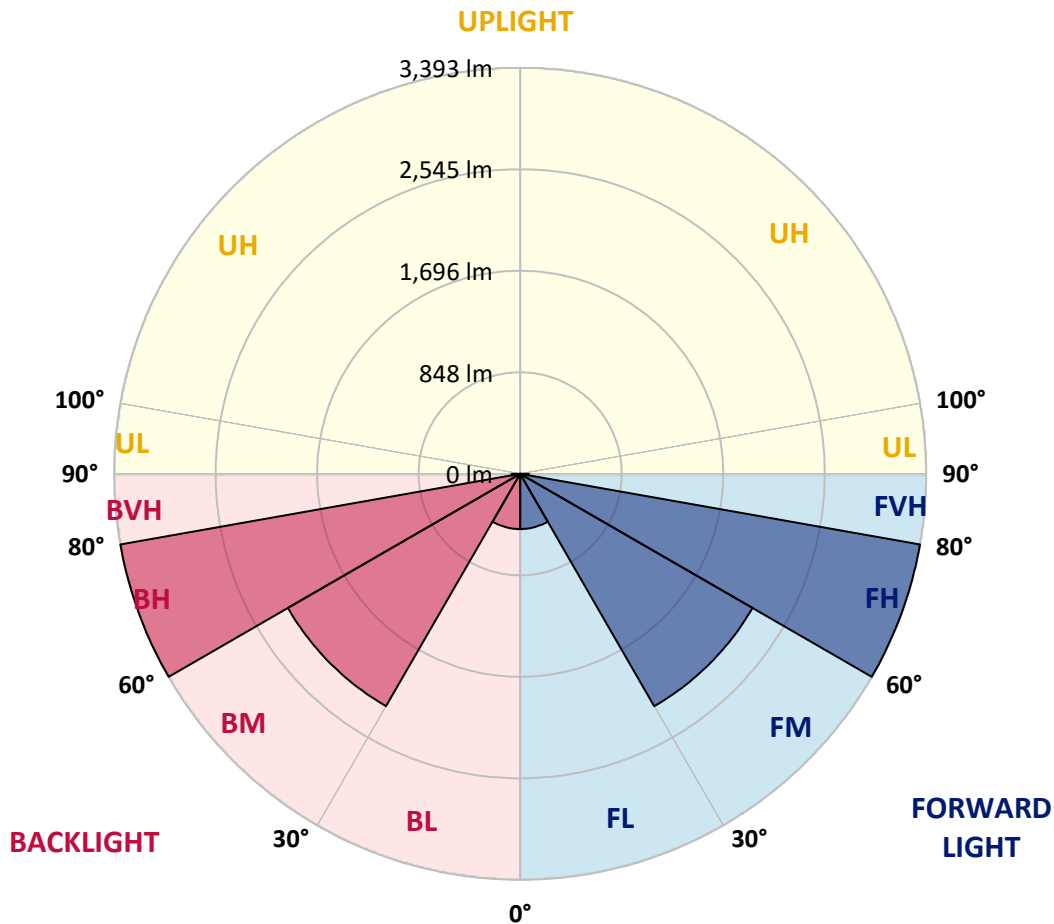
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.7	3.7			
FM (30°-60°)	2241.9	18.2			
FH (60°-80°)	3392.9	27.5			G2/5000
FVH (80°-90°)	70.5	0.6			G1/100
BL (0°-30°)	461.7	3.7	B1/500		
BM (30°-60°)	2241.9	18.2	B2/2500		
BH (60°-80°)	3392.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	70.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1
2.5°	1118.1	1121.3	1120.0	1117.4	1117.4	1115.5	1117.4	1118.7	1120.6	1121.9	1121.3
5°	1103.3	1105.9	1105.2	1103.3	1104.0	1102.0	1103.3	1105.2	1106.5	1107.2	1107.2
7.5°	1090.5	1093.1	1091.8	1088.6	1088.6	1086.6	1087.3	1089.2	1091.1	1091.8	1091.8
10°	1087.3	1089.8	1086.0	1080.9	1079.0	1076.4	1077.0	1079.0	1082.8	1084.7	1084.7
12.5°	1088.6	1090.5	1086.6	1079.0	1077.0	1074.5	1074.5	1076.4	1081.5	1084.1	1084.7
15°	1092.4	1094.3	1088.6	1080.2	1078.3	1076.4	1075.7	1078.3	1084.1	1088.6	1089.2
17.5°	1099.5	1101.4	1092.4	1080.9	1078.3	1079.0	1078.3	1080.2	1089.2	1097.5	1097.5
20°	1105.9	1107.2	1095.0	1080.9	1078.3	1079.0	1078.3	1082.2	1093.7	1105.2	1105.9
22.5°	1107.8	1109.1	1097.5	1085.4	1083.4	1084.1	1083.4	1087.3	1098.2	1109.7	1109.7
25°	1108.4	1110.4	1101.4	1091.8	1095.0	1096.3	1095.0	1095.6	1104.0	1114.2	1113.6
27.5°	1118.1	1120.6	1112.3	1104.0	1105.9	1105.2	1107.2	1109.1	1115.5	1125.8	1123.2
30°	1137.9	1139.9	1132.8	1124.5	1123.2	1118.7	1124.5	1130.9	1137.9	1146.9	1145.0
32.5°	1170.6	1174.5	1165.5	1156.5	1150.8	1148.2	1152.7	1163.6	1173.2	1182.8	1179.0
35°	1225.1	1227.7	1219.3	1202.7	1192.4	1192.4	1196.3	1210.4	1225.8	1237.9	1233.5
37.5°	1302.0	1305.3	1290.5	1270.6	1255.2	1255.2	1260.4	1275.1	1298.2	1315.5	1309.1
40°	1395.6	1400.1	1381.5	1361.0	1346.3	1343.7	1350.1	1366.8	1388.6	1410.4	1403.3
42.5°	1508.5	1513.6	1489.2	1471.3	1459.8	1459.8	1463.0	1478.3	1498.2	1525.1	1523.2
45°	1652.7	1661.7	1628.4	1610.4	1599.5	1602.1	1604.0	1617.5	1635.4	1666.2	1664.9
47.5°	1824.5	1833.5	1798.3	1779.7	1777.7	1789.9	1782.2	1791.8	1801.5	1836.7	1826.5
50°	2019.4	2034.8	2010.5	2009.2	2013.0	2035.5	2017.5	2022.6	2011.7	2034.2	2020.7
52.5°	2257.9	2280.3	2275.9	2283.6	2326.5	2372.7	2331.6	2313.7	2272.7	2279.7	2256.0
55°	2547.0	2581.0	2587.4	2633.6	2731.0	2825.3	2738.1	2665.6	2578.5	2562.4	2537.4
57.5°	2875.9	2902.8	2933.6	3027.9	3209.9	3377.3	3209.9	3049.7	2912.5	2879.8	2856.7
60°	3229.8	3263.1	3292.6	3431.7	3702.3	3937.6	3697.2	3442.6	3261.2	3217.0	3178.5
62.5°	3610.0	3652.9	3673.4	3827.9	4143.4	4424.1	4147.8	3839.5	3638.2	3590.7	3552.3
65°	3974.7	4010.0	4033.1	4197.8	4499.2	4780.6	4519.7	4215.8	4008.7	3946.5	3915.8
67.5°	4144.6	4163.9	4220.3	4406.8	4724.8	5046.0	4778.7	4426.7	4195.3	4086.3	4087.6
70°	3895.9	3856.8	3992.7	4291.4	4751.7	5208.8	4813.3	4282.5	3999.1	3822.2	3864.5
72.5°	3010.5	2943.2	3179.2	3690.1	4444.0	5105.0	4474.8	3719.0	3326.0	2967.0	3056.1
75°	1638.0	1561.7	1887.4	2533.6	3543.9	4424.8	3625.4	2606.0	2101.5	1625.8	1731.6
77.5°	462.2	433.4	696.2	1225.8	2131.6	3106.7	2213.7	1252.7	825.7	489.8	544.3
80°	141.7	137.2	185.9	369.3	905.2	1488.0	870.0	373.8	236.6	149.4	157.7
82.5°	84.0	76.9	92.3	134.6	230.8	467.4	224.4	140.4	112.8	75.6	82.1
85°	48.1	44.9	54.5	65.4	77.6	99.4	64.7	66.7	60.3	40.4	42.3
87.5°	19.9	18.0	21.2	20.5	18.0	23.1	17.3	20.5	24.4	16.0	14.7
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)