

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: P882912

Luminaire Tested: **NAV-SB3A-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882912
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 13610 lumens
Efficiency: N/A
Efficacy: 160.7 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

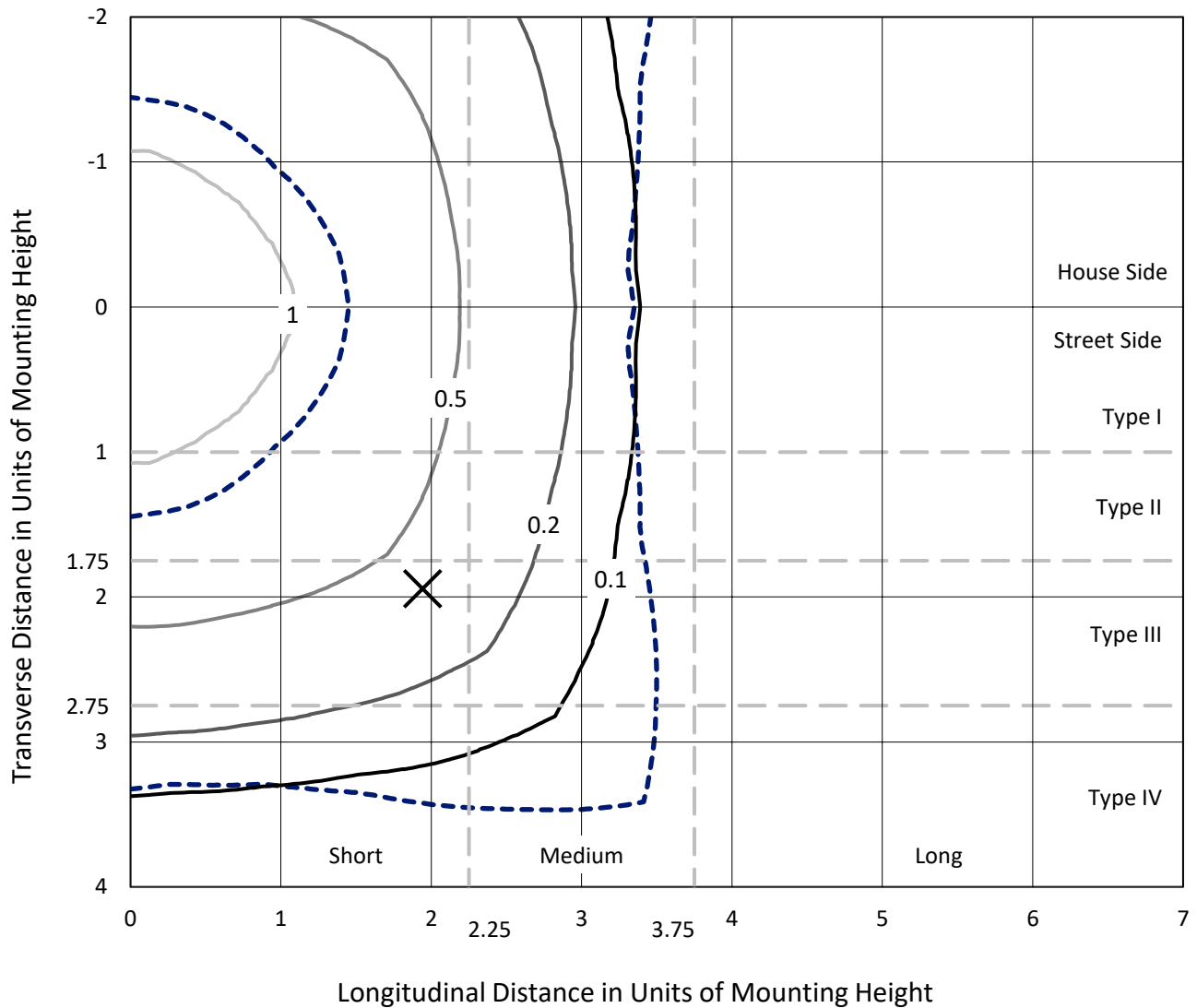
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

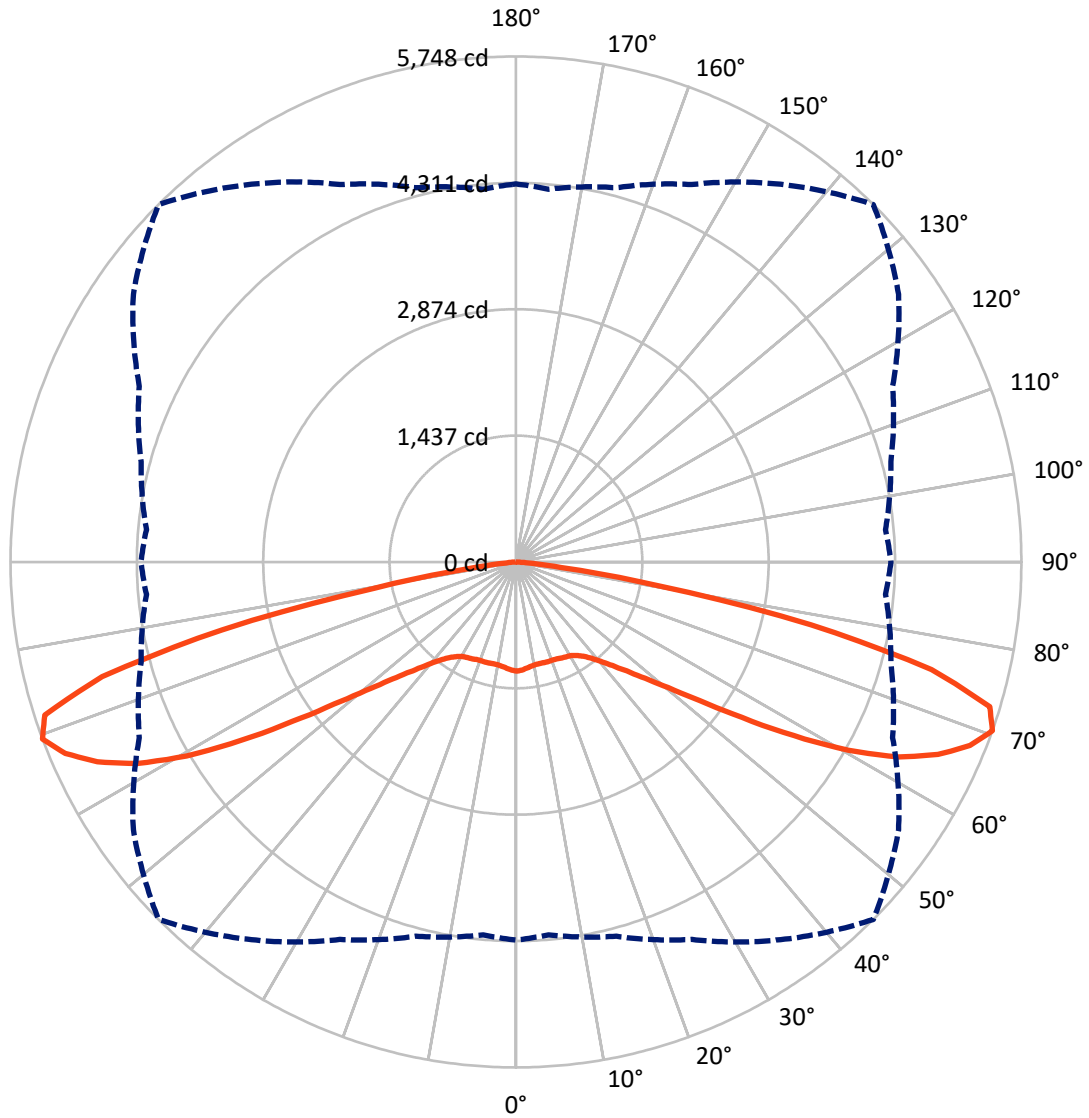
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	6805.0	0.0	6805.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6805.0	0.0	6805.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13610.0	0.0	13610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	0.8
10°-20°	339.1	2.5
20°-30°	564.3	4.1
30°-40°	853.4	6.3
40°-50°	1418.2	10.4
50°-60°	2676.1	19.7
60°-70°	4518.6	33.2
70°-80°	2969.2	21.8
80°-90°	155.6	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°	13610.0	100.0
0°-180°	13610.0	100.0

Coefficient of Utilization



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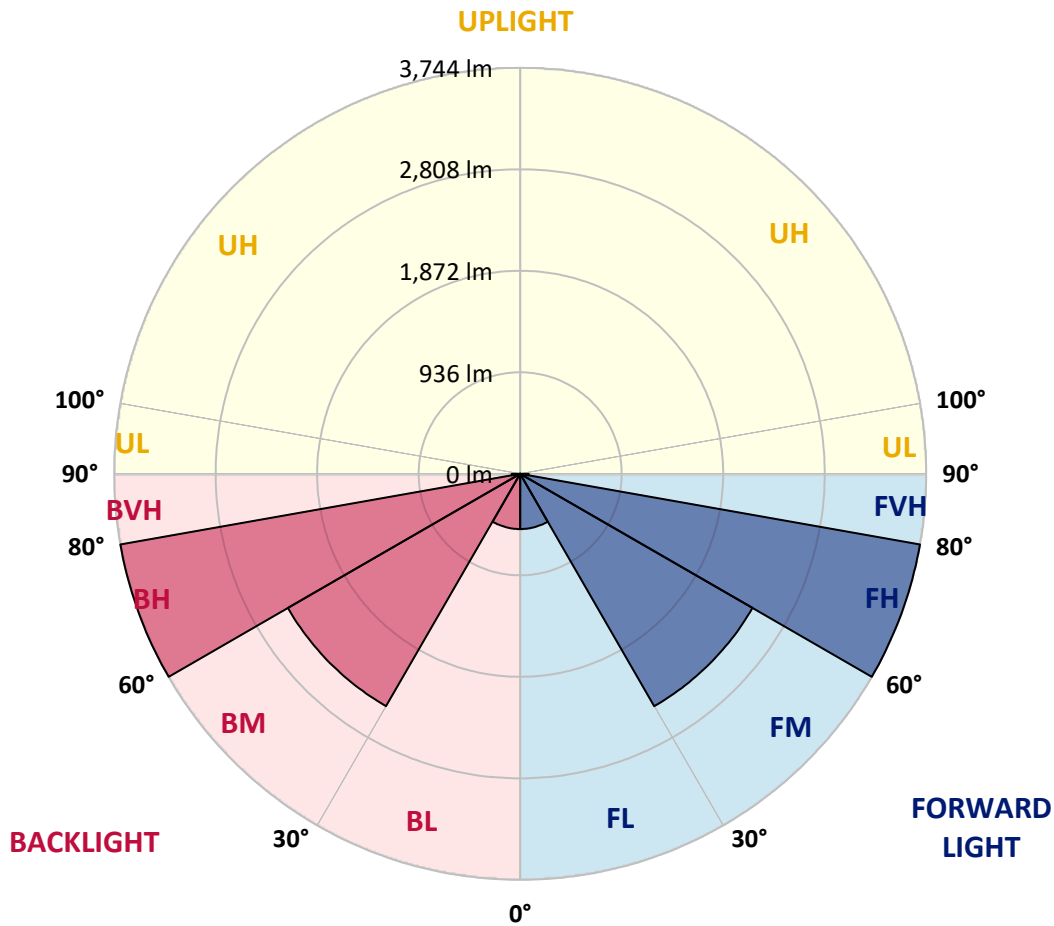
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.5	3.7			
FM (30°-60°)	2473.8	18.2			
FH (60°-80°)	3743.9	27.5			G2/5000
FVH (80°-90°)	77.8	0.6			G1/100
BL (0°-30°)	509.5	3.7	B2/1000		
BM (30°-60°)	2473.8	18.2	B2/2500		
BH (60°-80°)	3743.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	77.8	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°	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5
2.5°	1233.7	1237.3	1235.8	1233.0	1233.0	1230.9	1233.0	1234.4	1236.6	1238.0	1237.3
5°	1217.5	1220.3	1219.6	1217.5	1218.2	1216.0	1217.5	1219.6	1221.0	1221.7	1221.7
7.5°	1203.3	1206.1	1204.7	1201.2	1201.2	1199.1	1199.8	1201.9	1204.0	1204.7	1204.7
10°	1199.8	1202.6	1198.4	1192.7	1190.6	1187.7	1188.5	1190.6	1194.8	1196.9	1196.9
12.5°	1201.2	1203.3	1199.1	1190.6	1188.5	1185.6	1185.6	1187.7	1193.4	1196.2	1196.9
15°	1205.4	1207.6	1201.2	1192.0	1189.9	1187.7	1187.0	1189.9	1196.2	1201.2	1201.9
17.5°	1213.2	1215.3	1205.4	1192.7	1189.9	1190.6	1189.9	1192.0	1201.9	1211.1	1211.1
20°	1220.3	1221.7	1208.3	1192.7	1189.9	1190.6	1189.9	1194.1	1206.8	1219.6	1220.3
22.5°	1222.4	1223.8	1211.1	1197.6	1195.5	1196.2	1195.5	1199.8	1211.8	1224.5	1224.5
25°	1223.1	1225.2	1215.3	1204.7	1208.3	1209.7	1208.3	1209.0	1218.2	1229.5	1228.8
27.5°	1233.7	1236.6	1227.4	1218.2	1220.3	1219.6	1221.7	1223.8	1230.9	1242.2	1239.4
30°	1255.7	1257.8	1250.0	1240.8	1239.4	1234.4	1240.8	1247.9	1255.7	1265.6	1263.4
32.5°	1291.7	1296.0	1286.1	1276.2	1269.8	1267.0	1271.9	1284.0	1294.6	1305.2	1300.9
35°	1351.9	1354.7	1345.5	1327.1	1315.8	1315.8	1320.0	1335.6	1352.6	1366.0	1361.1
37.5°	1436.8	1440.3	1424.0	1402.1	1385.1	1385.1	1390.8	1407.0	1432.5	1451.6	1444.5
40°	1540.0	1545.0	1524.5	1501.8	1485.6	1482.7	1489.8	1508.2	1532.3	1556.3	1548.5
42.5°	1664.5	1670.2	1643.3	1623.5	1610.8	1610.8	1614.3	1631.3	1653.2	1682.9	1680.8
45°	1823.7	1833.6	1796.8	1777.0	1765.0	1767.8	1769.9	1784.8	1804.6	1838.6	1837.1
47.5°	2013.3	2023.2	1984.3	1963.8	1961.7	1975.1	1966.6	1977.2	1987.8	2026.7	2015.4
50°	2228.3	2245.3	2218.4	2217.0	2221.3	2246.0	2226.2	2231.9	2219.9	2244.6	2229.8
52.5°	2491.5	2516.3	2511.3	2519.8	2567.2	2618.1	2572.9	2553.0	2507.8	2515.6	2489.4
55°	2810.5	2848.0	2855.1	2906.0	3013.6	3117.6	3021.4	2941.4	2845.2	2827.5	2799.9
57.5°	3173.4	3203.2	3237.1	3341.1	3542.0	3726.6	3542.0	3365.2	3213.8	3177.7	3152.2
60°	3563.9	3600.7	3633.3	3786.8	4085.3	4344.9	4079.6	3798.8	3598.6	3549.8	3507.3
62.5°	3983.4	4030.8	4053.5	4224.0	4572.0	4881.8	4576.9	4236.7	4014.6	3962.2	3919.8
65°	4385.9	4424.9	4450.3	4632.1	4964.6	5275.2	4987.2	4651.9	4423.4	4354.8	4320.9
67.5°	4573.4	4594.6	4656.9	4862.7	5213.6	5568.0	5273.0	4884.7	4629.3	4509.0	4510.5
70°	4298.9	4255.8	4405.8	4735.4	5243.3	5747.7	5311.2	4725.5	4412.8	4217.6	4264.3
72.5°	3322.0	3247.7	3508.1	4071.9	4903.8	5633.1	4937.7	4103.7	3670.0	3273.9	3372.2
75°	1807.4	1723.3	2082.6	2795.7	3910.6	4882.5	4000.4	2875.6	2318.9	1794.0	1910.7
77.5°	510.0	478.2	768.2	1352.6	2352.1	3428.1	2442.7	1382.3	911.1	540.5	600.6
80°	156.3	151.4	205.1	407.5	998.9	1641.9	960.0	412.4	261.0	164.8	174.0
82.5°	92.7	84.9	101.9	148.6	254.7	515.7	247.6	154.9	124.5	83.5	90.5
85°	53.1	49.5	60.1	72.2	85.6	109.6	71.4	73.6	66.5	44.6	46.7
87.5°	21.9	19.8	23.3	22.6	19.8	25.5	19.1	22.6	26.9	17.7	16.3
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)