

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: P882902

Luminaire Tested: **NAV-SB3A-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882902  
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-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

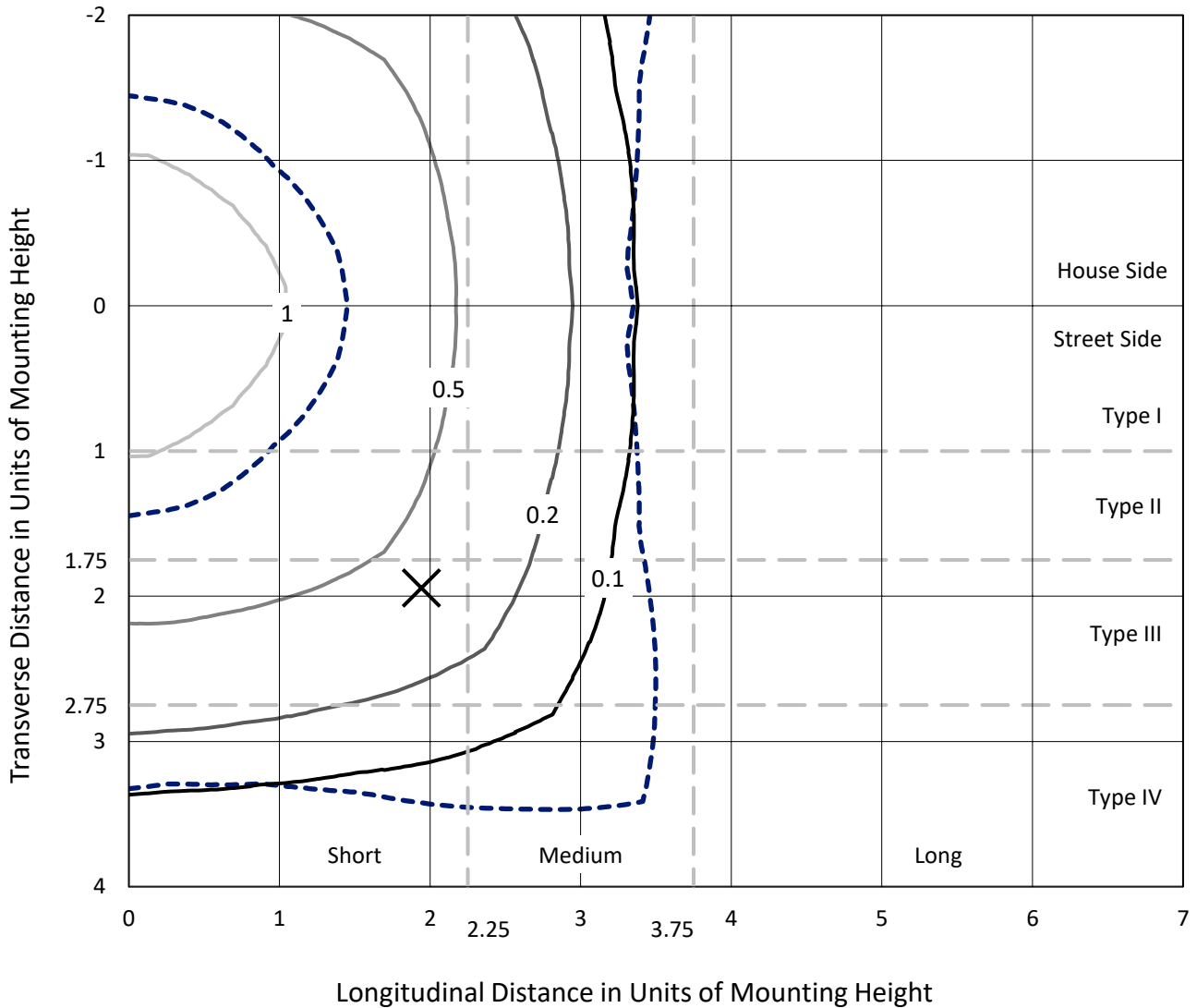
Lumens per Lamp: N/A  
Luminaire Lumens: 13397 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 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



REPORT NUMBER: P882902  
 CATALOG NUMBER: NAV-SB3A-730-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

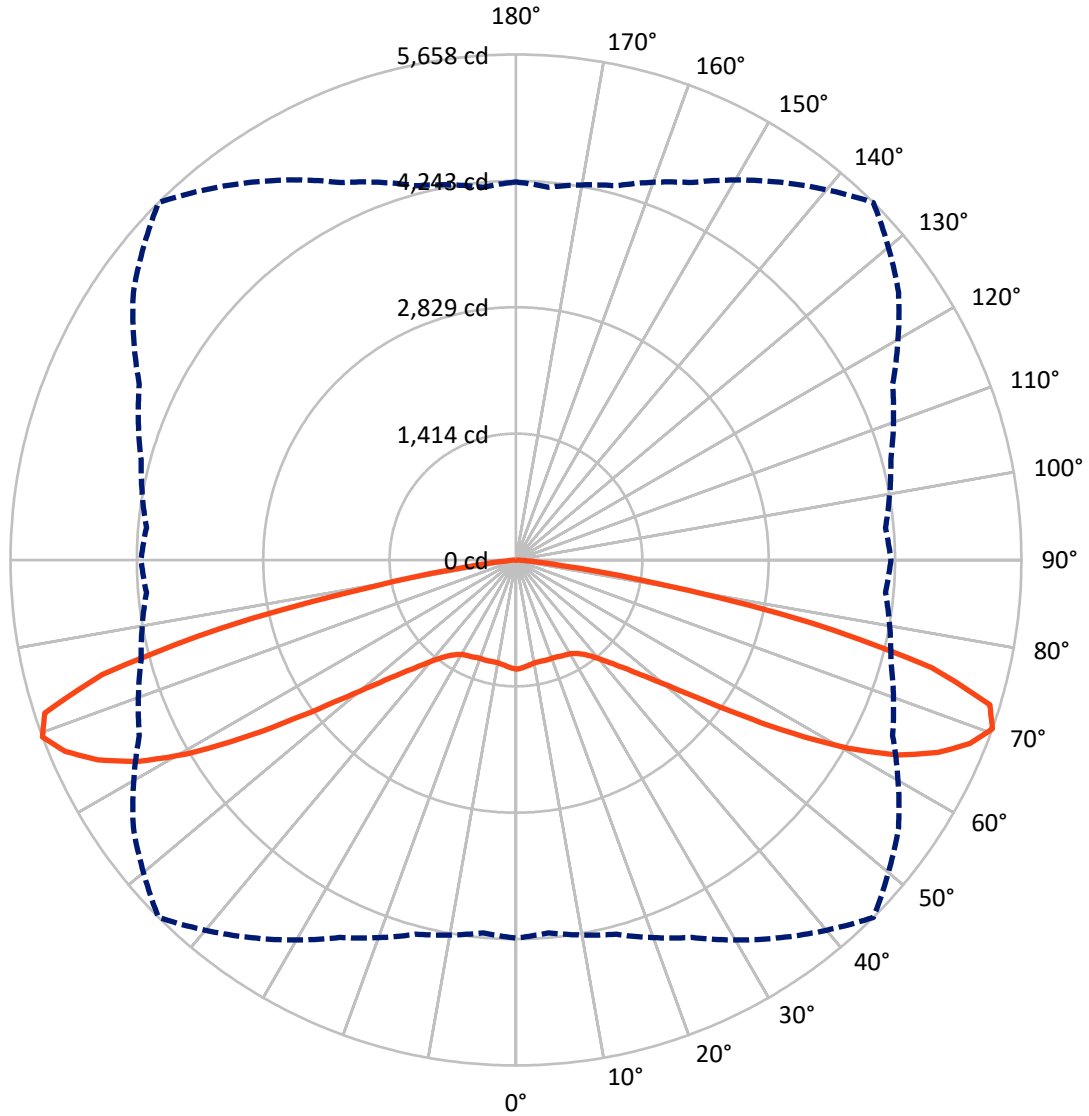
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

REPORT NUMBER: P882902  
CATALOG NUMBER: NAV-SB3A-730-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P882902  
 CATALOG NUMBER: NAV-SB3A-730-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6698.5	0.0	6698.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6698.5	0.0	6698.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13397.0	0.0	13397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.7	0.8
10°-20°	333.8	2.5
20°-30°	555.5	4.1
30°-40°	840.1	6.3
40°-50°	1396.0	10.4
50°-60°	2634.2	19.7
60°-70°	4447.9	33.2
70°-80°	2922.7	21.8
80°-90°	153.1	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°	13397.0	100.0
0°-180°	13397.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P882902

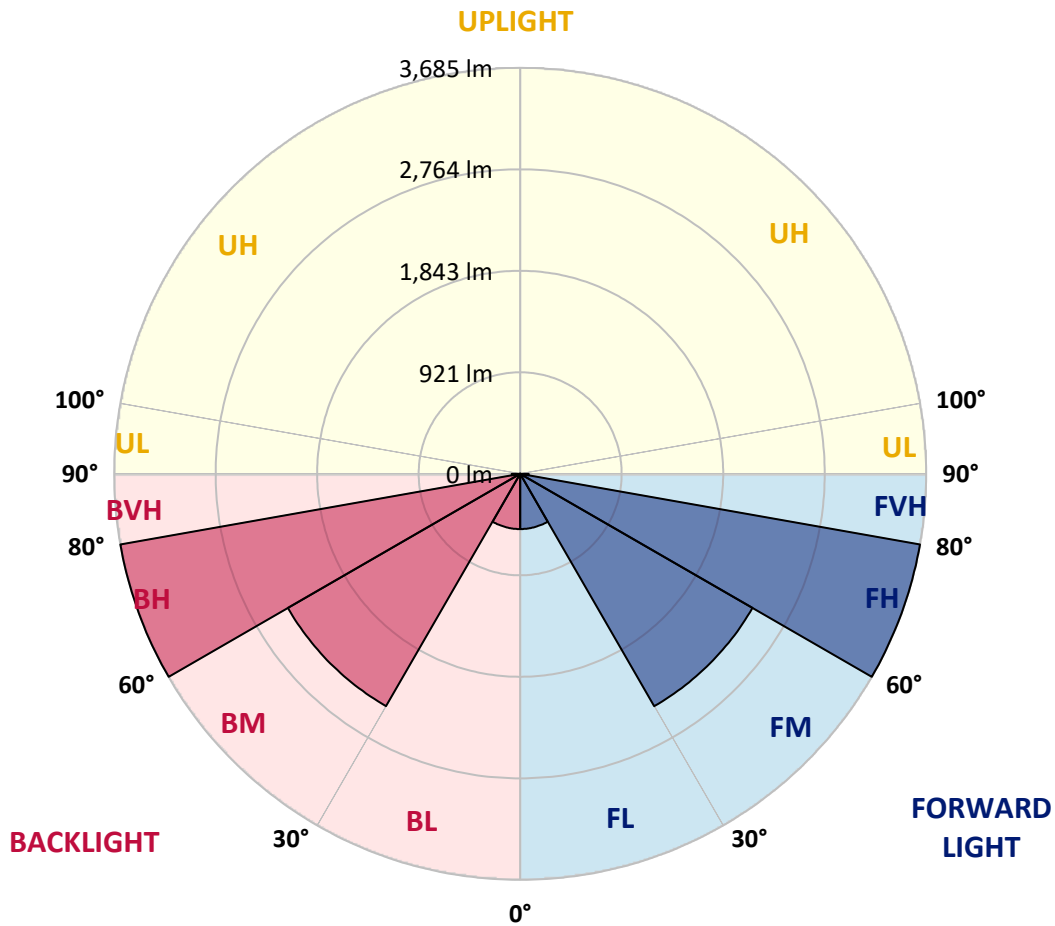
CATALOG NUMBER: NAV-SB3A-730-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.5	3.7			
FM (30°-60°)	2435.1	18.2			
FH (60°-80°)	3685.3	27.5			G2/5000
FVH (80°-90°)	76.6	0.6			G1/100
BL (0°-30°)	501.5	3.7	B2/1000		
BM (30°-60°)	2435.1	18.2	B2/2500		
BH (60°-80°)	3685.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	76.6	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



REPORT NUMBER: P882902  
 CATALOG NUMBER: NAV-SB3A-730-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1222.1	1222.1	1222.1	1222.1	1222.1	1222.1	1222.1	1222.1	1222.1	1222.1	1222.1
2.5°	1214.4	1217.9	1216.5	1213.7	1213.7	1211.6	1213.7	1215.1	1217.2	1218.6	1217.9
5°	1198.4	1201.2	1200.5	1198.4	1199.1	1197.0	1198.4	1200.5	1201.9	1202.6	1202.6
7.5°	1184.5	1187.3	1185.9	1182.4	1182.4	1180.3	1181.0	1183.1	1185.2	1185.9	1185.9
10°	1181.0	1183.8	1179.6	1174.0	1171.9	1169.2	1169.9	1171.9	1176.1	1178.2	1178.2
12.5°	1182.4	1184.5	1180.3	1171.9	1169.9	1167.1	1167.1	1169.2	1174.7	1177.5	1178.2
15°	1186.6	1188.7	1182.4	1173.3	1171.2	1169.2	1168.5	1171.2	1177.5	1182.4	1183.1
17.5°	1194.2	1196.3	1186.6	1174.0	1171.2	1171.9	1171.2	1173.3	1183.1	1192.1	1192.1
20°	1201.2	1202.6	1189.3	1174.0	1171.2	1171.9	1171.2	1175.4	1188.0	1200.5	1201.2
22.5°	1203.3	1204.7	1192.1	1178.9	1176.8	1177.5	1176.8	1181.0	1192.8	1205.4	1205.4
25°	1204.0	1206.1	1196.3	1185.9	1189.3	1190.7	1189.3	1190.0	1199.1	1210.2	1209.5
27.5°	1214.4	1217.2	1208.1	1199.1	1201.2	1200.5	1202.6	1204.7	1211.6	1222.8	1220.0
30°	1236.0	1238.1	1230.4	1221.4	1220.0	1215.1	1221.4	1228.3	1236.0	1245.8	1243.7
32.5°	1271.5	1275.7	1265.9	1256.2	1249.9	1247.1	1252.0	1263.9	1274.3	1284.7	1280.6
35°	1330.7	1333.5	1324.4	1306.3	1295.2	1295.2	1299.4	1314.7	1331.4	1344.6	1339.8
37.5°	1414.3	1417.7	1401.7	1380.1	1363.4	1363.4	1369.0	1385.0	1410.1	1428.9	1421.9
40°	1515.9	1520.8	1500.6	1478.3	1462.3	1459.5	1466.5	1484.6	1508.3	1531.9	1524.3
42.5°	1638.5	1644.1	1617.6	1598.1	1585.6	1585.6	1589.0	1605.8	1627.3	1656.6	1654.5
45°	1795.2	1804.9	1768.7	1749.2	1737.4	1740.2	1742.2	1756.9	1776.4	1809.8	1808.4
47.5°	1981.8	1991.5	1953.2	1933.0	1930.9	1944.2	1935.8	1946.3	1956.7	1995.0	1983.9
50°	2193.5	2210.2	2183.7	2182.3	2186.5	2210.9	2191.4	2197.0	2185.1	2209.5	2194.9
52.5°	2452.5	2476.9	2472.0	2480.4	2527.0	2577.2	2532.6	2513.1	2468.5	2476.2	2450.4
55°	2766.6	2803.5	2810.4	2860.6	2966.4	3068.8	2974.1	2895.4	2800.7	2783.3	2756.1
57.5°	3123.8	3153.0	3186.5	3288.8	3486.6	3668.3	3486.6	3312.5	3163.5	3128.0	3102.9
60°	3508.2	3544.4	3576.4	3727.5	4021.4	4276.9	4015.8	3739.3	3542.3	3494.2	3452.5
62.5°	3921.1	3967.7	3990.0	4157.8	4500.4	4805.4	4505.3	4170.4	3951.7	3900.2	3858.4
65°	4317.3	4355.6	4380.7	4559.6	4886.9	5192.6	4909.2	4579.1	4354.2	4286.7	4253.2
67.5°	4501.8	4522.7	4584.0	4786.6	5132.0	5480.9	5190.5	4808.2	4556.8	4438.5	4439.9
70°	4231.7	4189.2	4336.8	4661.3	5161.3	5657.8	5228.1	4651.5	4343.8	4151.6	4197.5
72.5°	3270.0	3196.9	3453.1	4008.1	4827.0	5545.0	4860.5	4039.5	3612.6	3222.7	3319.5
75°	1779.1	1696.3	2050.0	2751.9	3849.4	4806.1	3937.8	2830.6	2282.6	1765.9	1880.8
77.5°	502.1	470.7	756.2	1331.4	2315.3	3374.5	2404.5	1360.6	896.9	532.0	591.2
80°	153.9	149.0	201.9	401.1	983.2	1616.2	944.9	406.0	256.9	162.2	171.3
82.5°	91.2	83.6	100.3	146.2	250.7	507.6	243.7	152.5	122.6	82.2	89.1
85°	52.2	48.7	59.2	71.0	84.3	107.9	70.3	72.4	65.5	43.9	46.0
87.5°	21.6	19.5	23.0	22.3	19.5	25.1	18.8	22.3	26.5	17.4	16.0
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)