

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: P883052

Luminaire Tested: **NAV-SB3B-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883052
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-SB3B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13614 lumens
Efficiency: N/A
Efficacy: 124.7 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

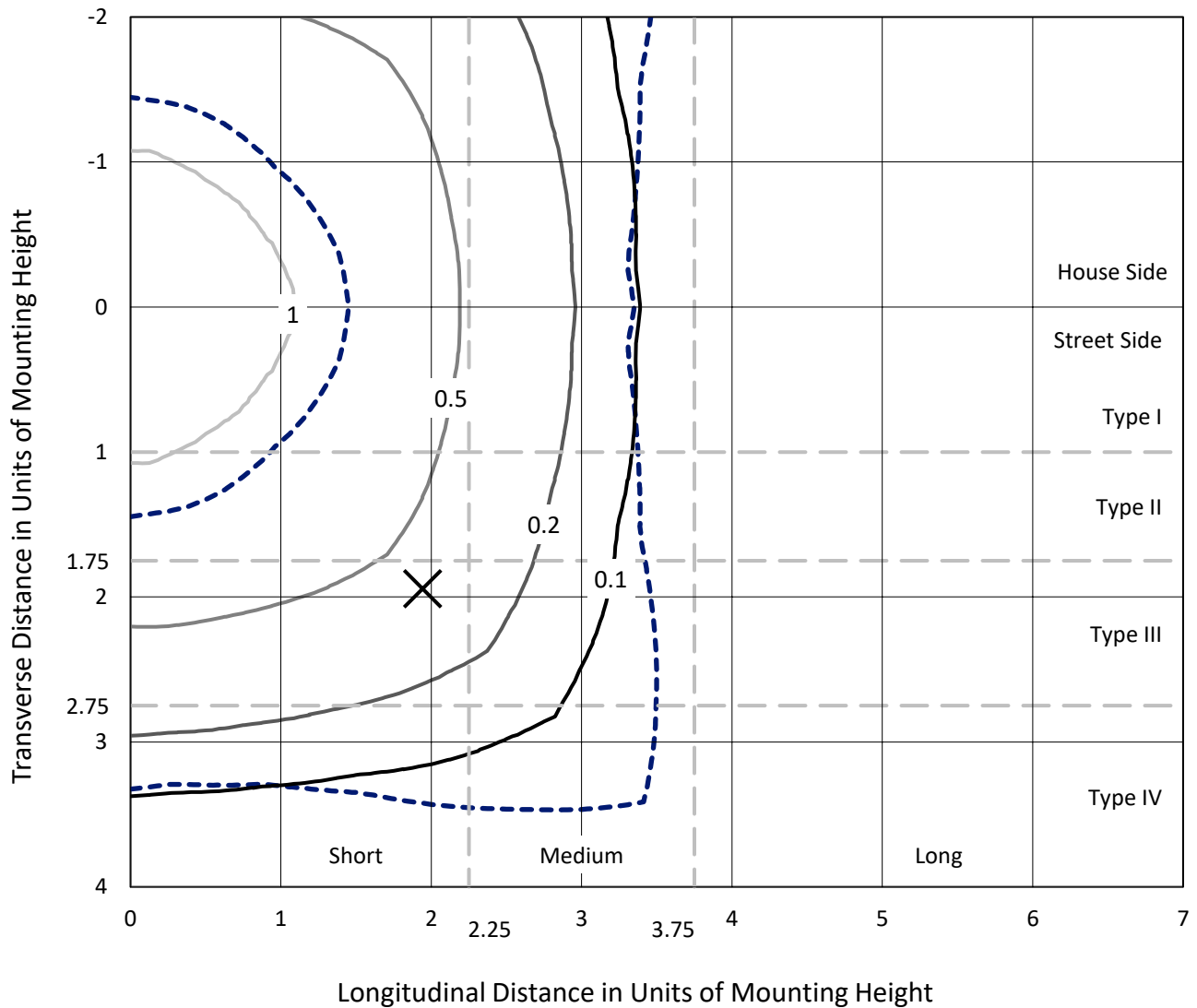
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

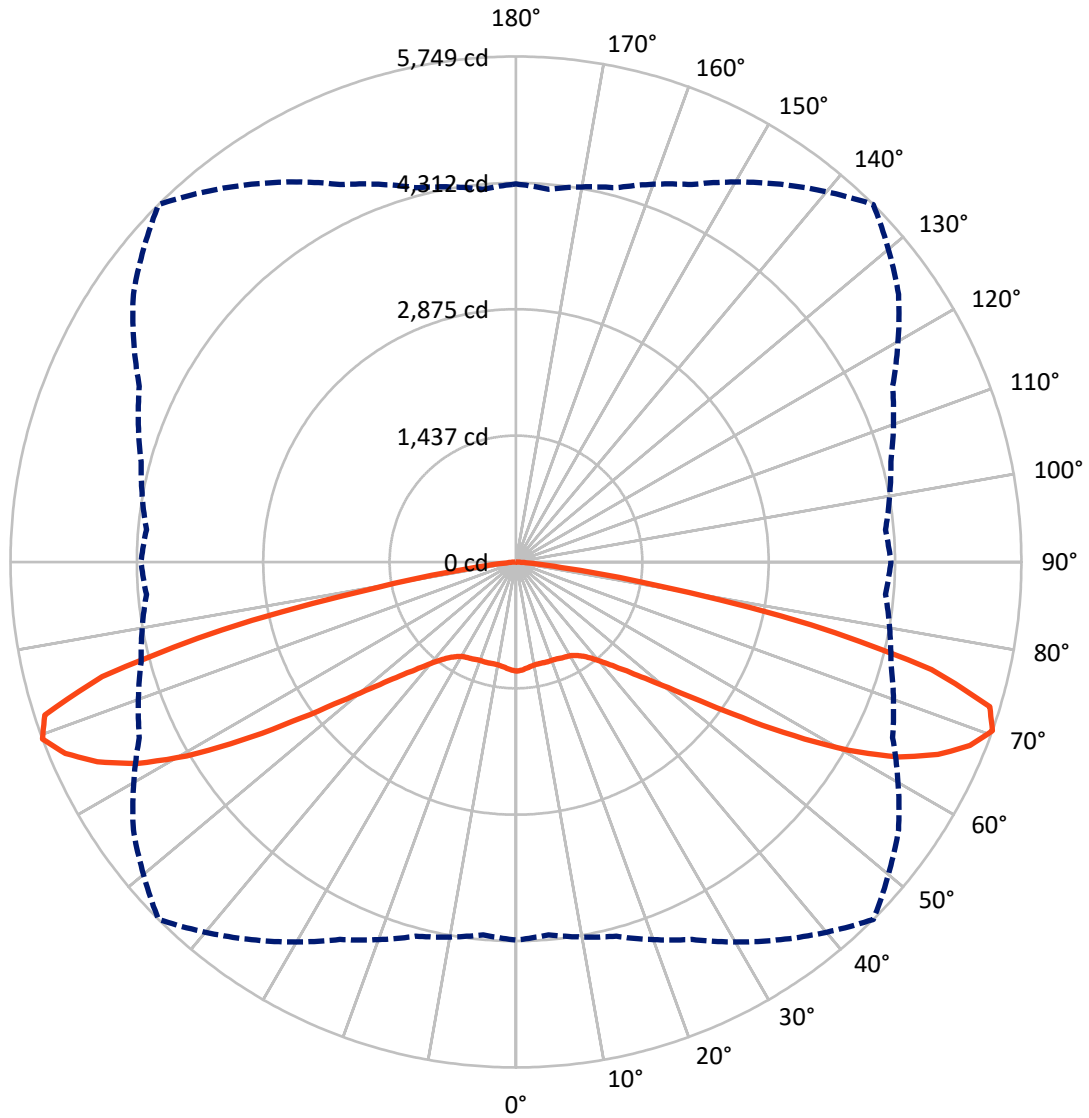
✕ Max cd
 - - - 1/2 Max cd



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	6807.0	0.0	6807.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6807.0	0.0	6807.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13614.0	0.0	13614.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	0.8
10°-20°	339.2	2.5
20°-30°	564.5	4.1
30°-40°	853.7	6.3
40°-50°	1418.6	10.4
50°-60°	2676.8	19.7
60°-70°	4520.0	33.2
70°-80°	2970.1	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°	13614.0	100.0
0°-180°	13614.0	100.0



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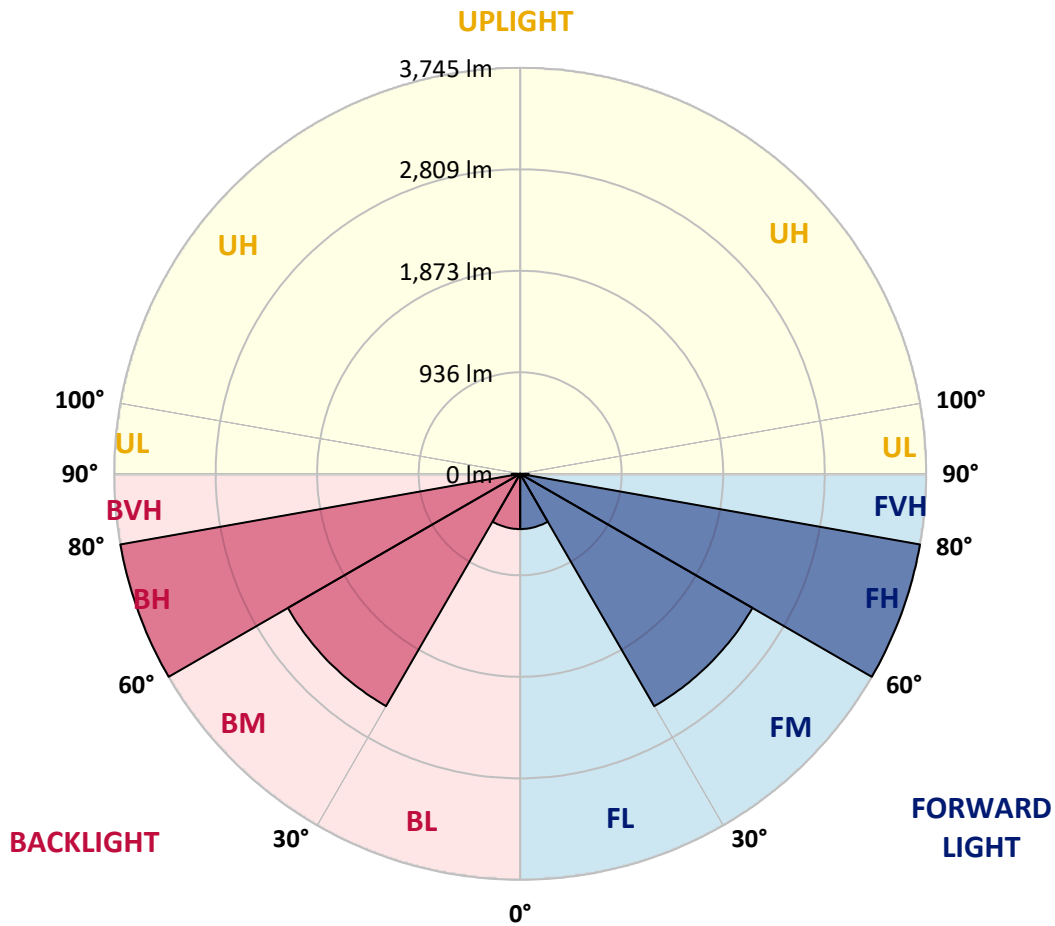
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.6	3.7			
FM (30°-60°)	2474.6	18.2			
FH (60°-80°)	3745.0	27.5			G2/5000
FVH (80°-90°)	77.8	0.6			G1/100
BL (0°-30°)	509.6	3.7	B2/1000		
BM (30°-60°)	2474.6	18.2	B2/2500		
BH (60°-80°)	3745.0	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°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1234.1	1237.6	1236.2	1233.4	1233.4	1231.3	1233.4	1234.8	1236.9	1238.3	1237.6
5°	1217.8	1220.6	1219.9	1217.8	1218.5	1216.4	1217.8	1219.9	1221.3	1222.1	1222.1
7.5°	1203.7	1206.5	1205.1	1201.5	1201.5	1199.4	1200.1	1202.2	1204.4	1205.1	1205.1
10°	1200.1	1203.0	1198.7	1193.0	1190.9	1188.1	1188.8	1190.9	1195.2	1197.3	1197.3
12.5°	1201.5	1203.7	1199.4	1190.9	1188.8	1186.0	1186.0	1188.1	1193.8	1196.6	1197.3
15°	1205.8	1207.9	1201.5	1192.3	1190.2	1188.1	1187.4	1190.2	1196.6	1201.5	1202.2
17.5°	1213.6	1215.7	1205.8	1193.0	1190.2	1190.9	1190.2	1192.3	1202.2	1211.4	1211.4
20°	1220.6	1222.1	1208.6	1193.0	1190.2	1190.9	1190.2	1194.5	1207.2	1219.9	1220.6
22.5°	1222.8	1224.2	1211.4	1198.0	1195.9	1196.6	1195.9	1200.1	1212.2	1224.9	1224.9
25°	1223.5	1225.6	1215.7	1205.1	1208.6	1210.0	1208.6	1209.3	1218.5	1229.8	1229.1
27.5°	1234.1	1236.9	1227.7	1218.5	1220.6	1219.9	1222.1	1224.2	1231.3	1242.6	1239.7
30°	1256.0	1258.1	1250.4	1241.2	1239.7	1234.8	1241.2	1248.2	1256.0	1265.9	1263.8
32.5°	1292.1	1296.4	1286.5	1276.5	1270.2	1267.3	1272.3	1284.3	1294.9	1305.6	1301.3
35°	1352.3	1355.1	1345.9	1327.5	1316.2	1316.2	1320.4	1336.0	1353.0	1366.4	1361.5
37.5°	1437.2	1440.7	1424.4	1402.5	1385.5	1385.5	1391.2	1407.5	1432.9	1452.0	1445.0
40°	1540.5	1545.4	1524.9	1502.3	1486.0	1483.2	1490.2	1508.6	1532.7	1556.8	1549.0
42.5°	1665.0	1670.7	1643.8	1624.0	1611.2	1611.2	1614.8	1631.8	1653.7	1683.4	1681.3
45°	1824.2	1834.1	1797.4	1777.5	1765.5	1768.3	1770.5	1785.3	1805.1	1839.1	1837.7
47.5°	2013.9	2023.8	1984.9	1964.3	1962.2	1975.7	1967.2	1977.8	1988.4	2027.3	2016.0
50°	2229.0	2246.0	2219.1	2217.7	2221.9	2246.7	2226.9	2232.5	2220.5	2245.3	2230.4
52.5°	2492.2	2517.0	2512.0	2520.5	2567.9	2618.9	2573.6	2553.8	2508.5	2516.3	2490.1
55°	2811.4	2848.9	2855.9	2906.9	3014.5	3118.5	3022.2	2942.3	2846.0	2828.4	2800.8
57.5°	3174.4	3204.1	3238.1	3342.1	3543.0	3727.7	3543.0	3366.1	3214.7	3178.6	3153.1
60°	3565.0	3601.8	3634.3	3787.9	4086.5	4346.2	4080.8	3799.9	3599.7	3550.8	3508.4
62.5°	3984.6	4032.0	4054.7	4225.2	4573.3	4883.3	4578.3	4237.9	4015.7	3963.4	3920.9
65°	4387.2	4426.2	4451.6	4633.5	4966.1	5276.7	4988.7	4653.3	4424.7	4356.1	4322.1
67.5°	4574.8	4596.0	4658.3	4864.2	5215.2	5569.7	5274.6	4886.1	4630.7	4510.4	4511.8
70°	4300.2	4257.0	4407.0	4736.8	5244.9	5749.4	5312.8	4726.9	4414.1	4218.8	4265.5
72.5°	3323.0	3248.7	3509.1	4073.1	4905.2	5634.8	4939.2	4104.9	3671.1	3274.9	3373.2
75°	1808.0	1723.8	2083.2	2796.5	3911.7	4884.0	4001.6	2876.5	2319.6	1794.5	1911.3
77.5°	510.2	478.4	768.5	1353.0	2352.8	3429.1	2443.4	1382.7	911.4	540.6	600.8
80°	156.4	151.4	205.2	407.6	999.2	1642.4	960.2	412.5	261.1	164.9	174.1
82.5°	92.7	84.9	101.9	148.6	254.7	515.9	247.7	155.0	124.5	83.5	90.6
85°	53.1	49.5	60.1	72.2	85.6	109.7	71.5	73.6	66.5	44.6	46.7
87.5°	21.9	19.8	23.4	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)