

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: P882392

Luminaire Tested: **NAV-SB2B-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882392
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-SB2B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 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: 11427 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

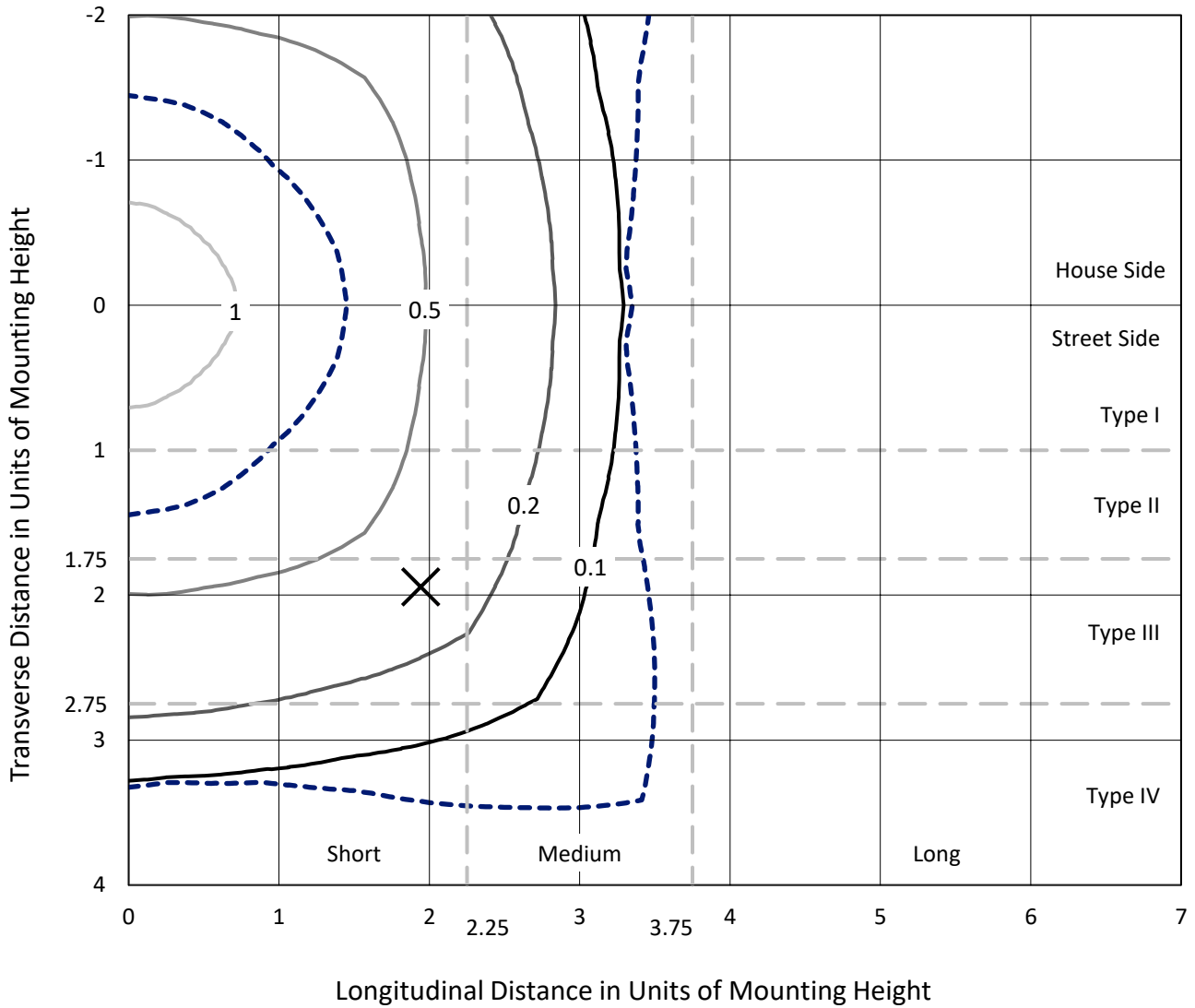
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

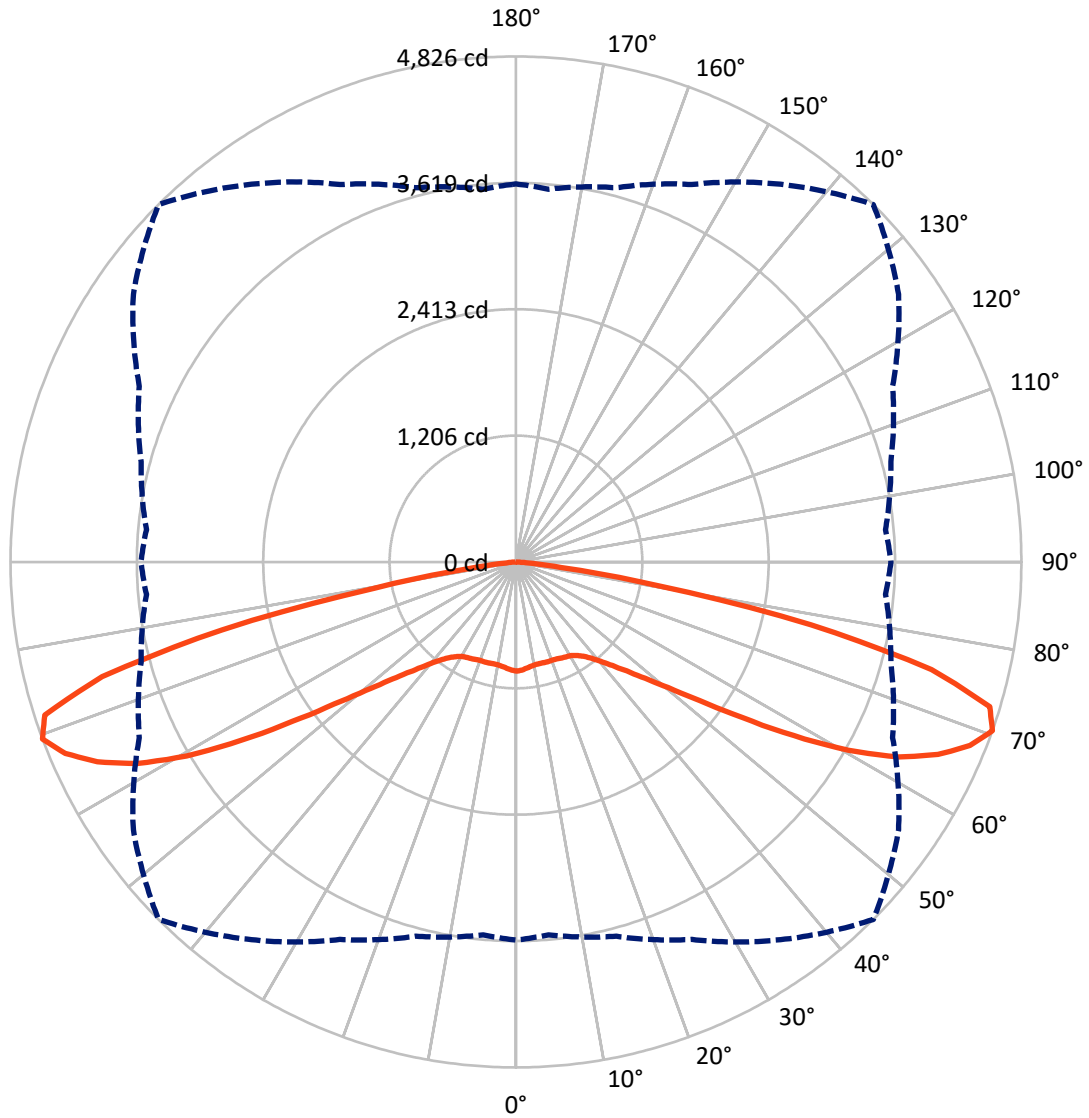
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	5713.5	0.0	5713.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5713.5	0.0	5713.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11427.0	0.0	11427.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	0.8
10°-20°	284.7	2.5
20°-30°	473.8	4.1
30°-40°	716.5	6.3
40°-50°	1190.7	10.4
50°-60°	2246.8	19.7
60°-70°	3793.9	33.2
70°-80°	2493.0	21.8
80°-90°	130.6	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°	11427.0	100.0
0°-180°	11427.0	100.0



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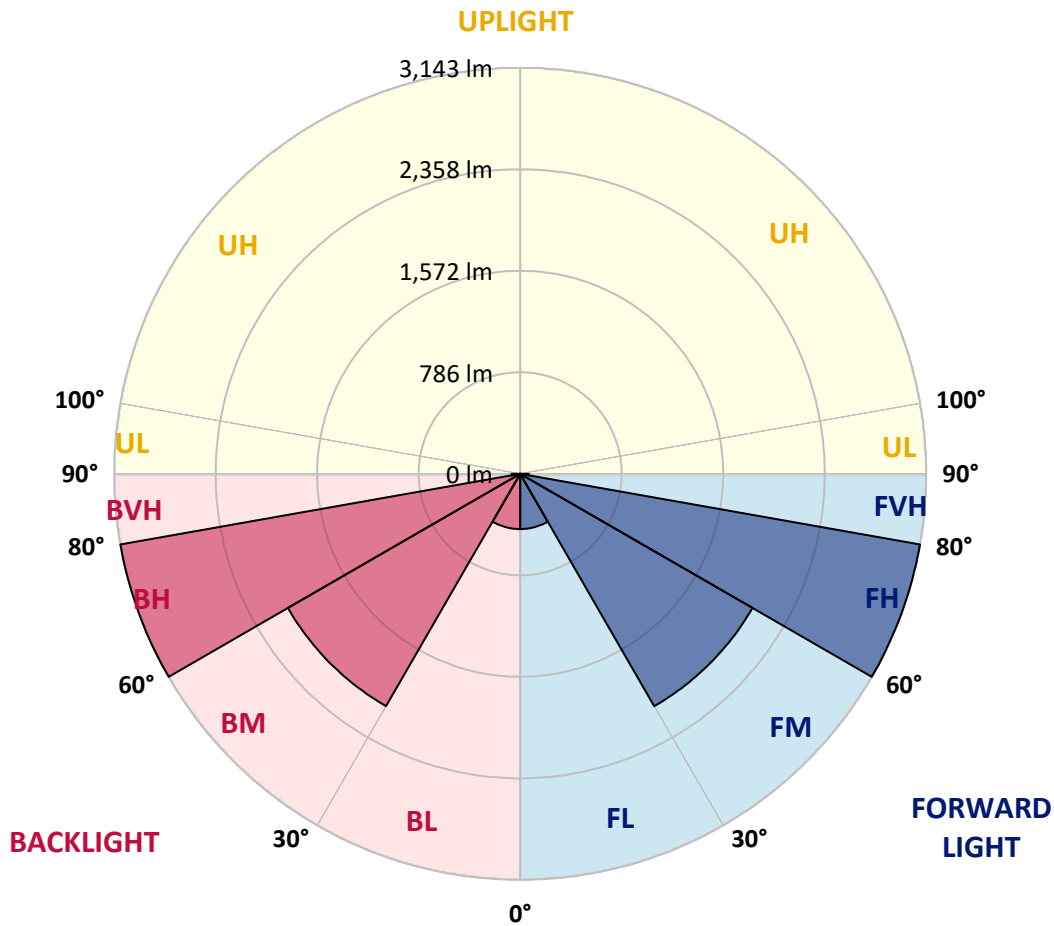
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.7	3.7			
FM (30°-60°)	2077.0	18.2			
FH (60°-80°)	3143.4	27.5			G2/5000
FVH (80°-90°)	65.3	0.6			G1/100
BL (0°-30°)	427.7	3.7	B1/500		
BM (30°-60°)	2077.0	18.2	B2/2500		
BH (60°-80°)	3143.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	65.3	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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1035.8	1038.8	1037.6	1035.2	1035.2	1033.5	1035.2	1036.4	1038.2	1039.4	1038.8
5°	1022.2	1024.6	1024.0	1022.2	1022.8	1021.0	1022.2	1024.0	1025.1	1025.7	1025.7
7.5°	1010.3	1012.7	1011.5	1008.5	1008.5	1006.7	1007.3	1009.1	1010.9	1011.5	1011.5
10°	1007.3	1009.7	1006.1	1001.4	999.6	997.2	997.8	999.6	1003.2	1005.0	1005.0
12.5°	1008.5	1010.3	1006.7	999.6	997.8	995.5	995.5	997.2	1002.0	1004.4	1005.0
15°	1012.1	1013.9	1008.5	1000.8	999.0	997.2	996.6	999.0	1004.4	1008.5	1009.1
17.5°	1018.6	1020.4	1012.1	1001.4	999.0	999.6	999.0	1000.8	1009.1	1016.8	1016.8
20°	1024.6	1025.7	1014.5	1001.4	999.0	999.6	999.0	1002.6	1013.3	1024.0	1024.6
22.5°	1026.3	1027.5	1016.8	1005.5	1003.8	1004.4	1003.8	1007.3	1017.4	1028.1	1028.1
25°	1026.9	1028.7	1020.4	1011.5	1014.5	1015.6	1014.5	1015.1	1022.8	1032.3	1031.7
27.5°	1035.8	1038.2	1030.5	1022.8	1024.6	1024.0	1025.7	1027.5	1033.5	1043.0	1040.6
30°	1054.3	1056.0	1049.5	1041.8	1040.6	1036.4	1041.8	1047.7	1054.3	1062.6	1060.8
32.5°	1084.5	1088.1	1079.8	1071.5	1066.1	1063.8	1067.9	1078.0	1086.9	1095.8	1092.3
35°	1135.0	1137.4	1129.7	1114.2	1104.7	1104.7	1108.3	1121.4	1135.6	1146.9	1142.7
37.5°	1206.3	1209.3	1195.6	1177.2	1162.9	1162.9	1167.7	1181.4	1202.7	1218.8	1212.8
40°	1293.0	1297.2	1280.0	1260.9	1247.3	1244.9	1250.8	1266.3	1286.5	1306.7	1300.1
42.5°	1397.6	1402.3	1379.7	1363.1	1352.4	1352.4	1355.4	1369.6	1388.0	1413.0	1411.2
45°	1531.2	1539.5	1508.6	1492.0	1481.9	1484.3	1486.0	1498.5	1515.2	1543.7	1542.5
47.5°	1690.4	1698.7	1666.0	1648.8	1647.0	1658.3	1651.2	1660.1	1669.0	1701.7	1692.1
50°	1870.9	1885.2	1862.6	1861.4	1865.0	1885.8	1869.1	1873.9	1863.8	1884.6	1872.1
52.5°	2091.9	2112.7	2108.5	2115.6	2155.4	2198.2	2160.2	2143.5	2105.5	2112.1	2090.1
55°	2359.7	2391.2	2397.2	2439.9	2530.2	2617.5	2536.7	2469.6	2388.8	2374.0	2350.8
57.5°	2664.4	2689.4	2717.9	2805.2	2973.9	3128.9	2973.9	2825.4	2698.3	2668.0	2646.6
60°	2992.3	3023.2	3050.5	3179.4	3430.0	3648.0	3425.3	3189.5	3021.4	2980.4	2944.8
62.5°	3344.5	3384.3	3403.3	3546.4	3838.7	4098.8	3842.8	3557.1	3370.6	3326.7	3291.0
65°	3682.5	3715.1	3736.5	3889.1	4168.3	4429.0	4187.3	3905.8	3713.9	3656.3	3627.8
67.5°	3839.9	3857.7	3909.9	4082.8	4377.4	4674.9	4427.3	4101.2	3886.8	3785.8	3787.0
70°	3609.4	3573.2	3699.1	3975.9	4402.3	4825.8	4459.3	3967.5	3705.0	3541.1	3580.3
72.5°	2789.2	2726.8	2945.4	3418.7	4117.2	4729.6	4145.7	3445.5	3081.4	2748.8	2831.3
75°	1517.5	1446.8	1748.6	2347.3	3283.3	4099.4	3358.8	2414.4	1946.9	1506.2	1604.2
77.5°	428.2	401.5	645.0	1135.6	1974.9	2878.3	2050.9	1160.6	765.0	453.8	504.3
80°	131.3	127.1	172.2	342.1	838.6	1378.5	806.0	346.3	219.2	138.4	146.1
82.5°	77.8	71.3	85.5	124.7	213.8	433.0	207.9	130.1	104.5	70.1	76.0
85°	44.5	41.6	50.5	60.6	71.9	92.1	60.0	61.8	55.8	37.4	39.2
87.5°	18.4	16.6	19.6	19.0	16.6	21.4	16.0	19.0	22.6	14.8	13.7
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)