

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: P882622

Luminaire Tested: **NAV-SB2C-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882622
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-SB2C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13509 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

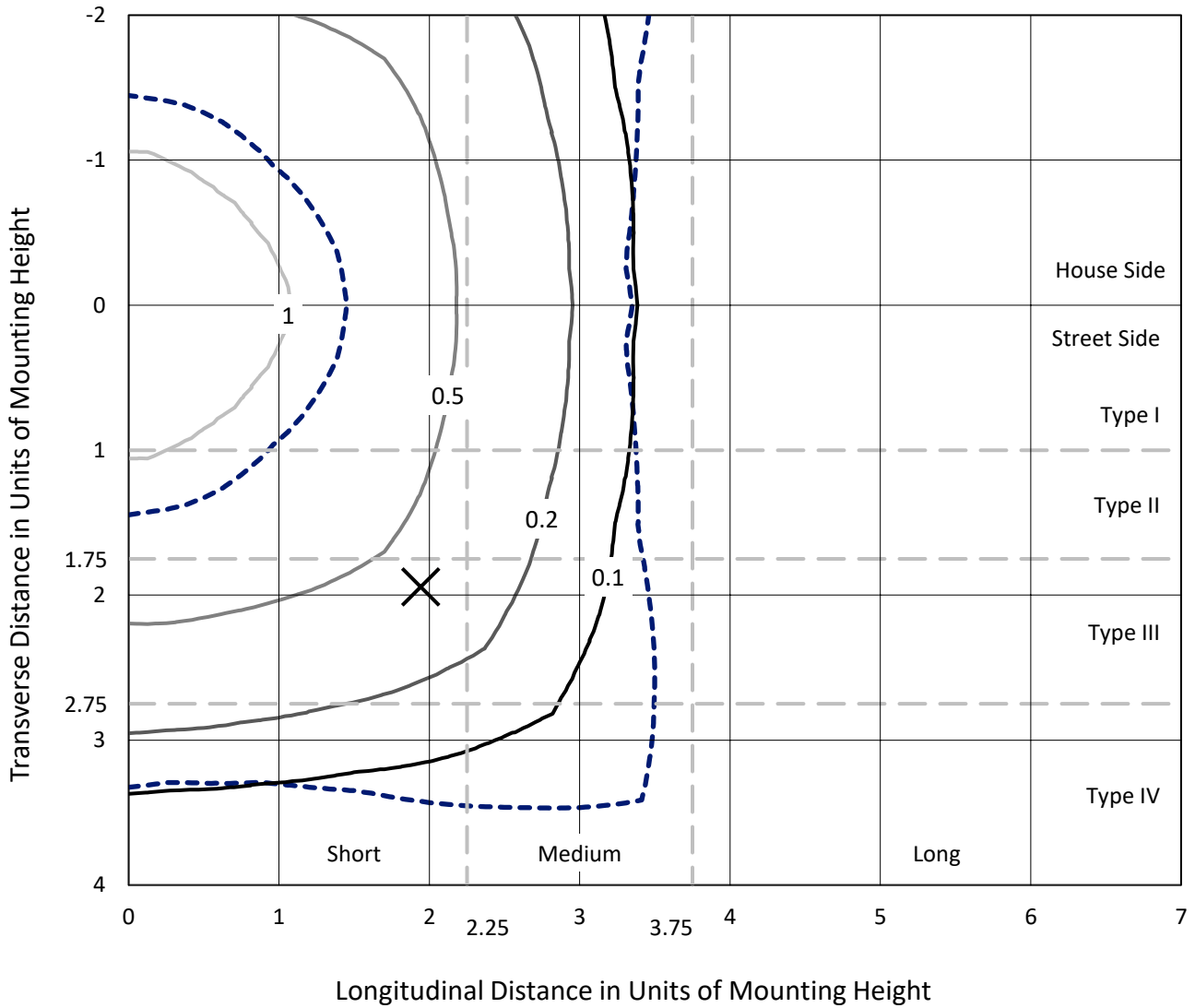
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

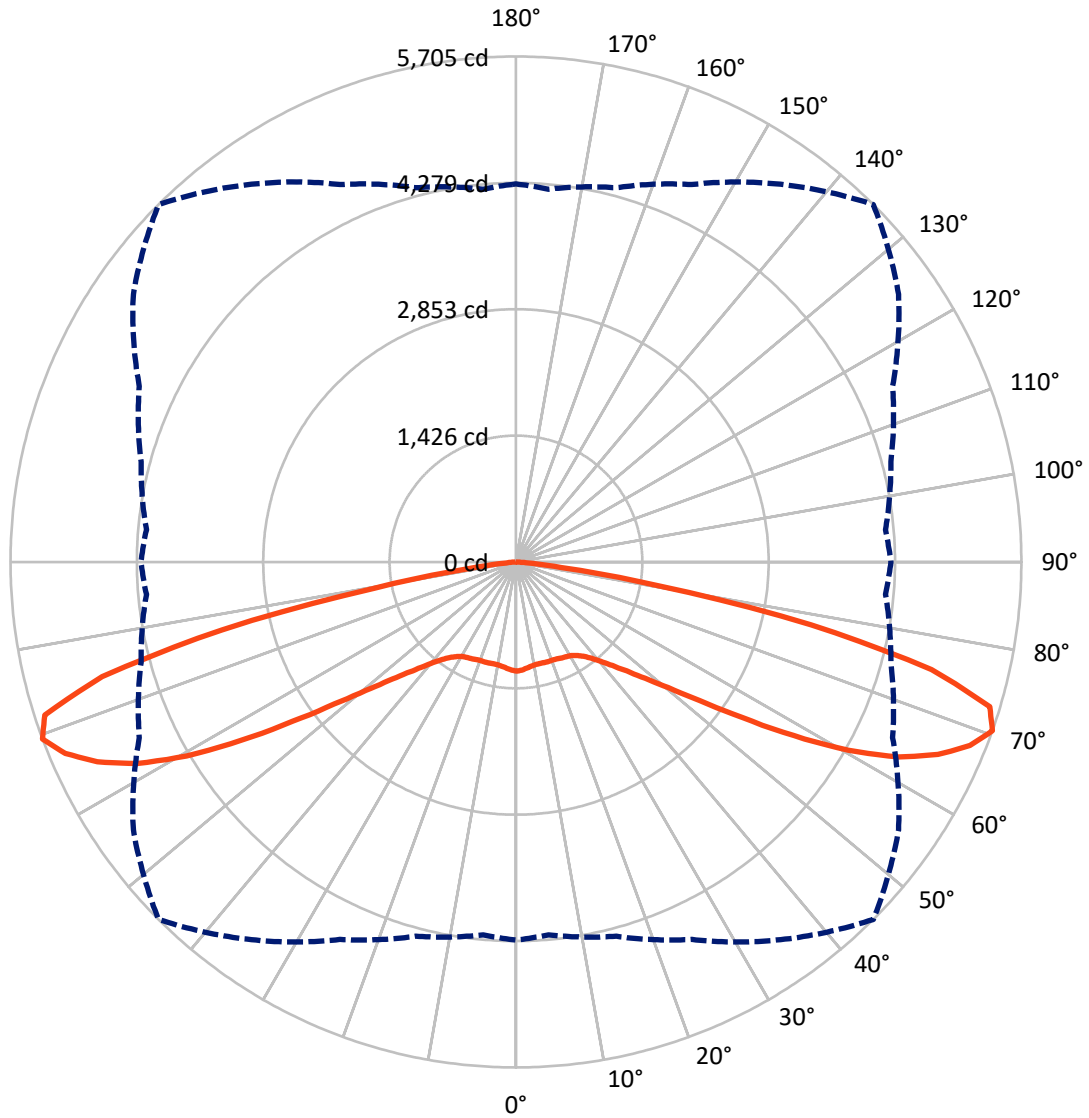
✕ Max cd
 - - - 1/2 Max cd



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	6754.5	0.0	6754.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6754.5	0.0	6754.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13509.0	0.0	13509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	0.8
10°-20°	336.6	2.5
20°-30°	560.1	4.1
30°-40°	847.1	6.3
40°-50°	1407.7	10.4
50°-60°	2656.2	19.7
60°-70°	4485.1	33.2
70°-80°	2947.2	21.8
80°-90°	154.4	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°	13509.0	100.0
0°-180°	13509.0	100.0

Coefficient of Utilization



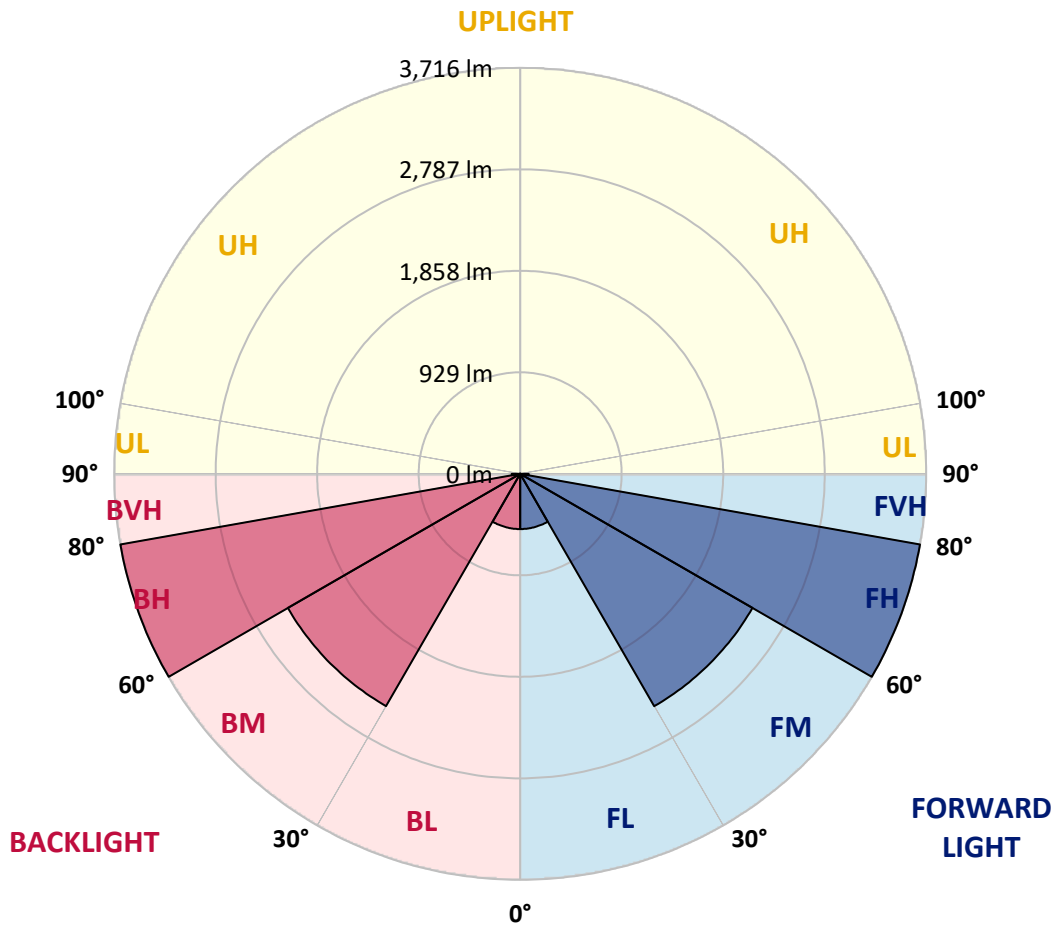
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.7	3.7			
FM (30°-60°)	2455.5	18.2			
FH (60°-80°)	3716.1	27.5			G2/5000
FVH (80°-90°)	77.2	0.6			G1/100
BL (0°-30°)	505.7	3.7	B2/1000		
BM (30°-60°)	2455.5	18.2	B2/2500		
BH (60°-80°)	3716.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	77.2	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°	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3
2.5°	1224.6	1228.1	1226.7	1223.9	1223.9	1221.8	1223.9	1225.3	1227.4	1228.8	1228.1
5°	1208.4	1211.2	1210.5	1208.4	1209.1	1207.0	1208.4	1210.5	1211.9	1212.6	1212.6
7.5°	1194.4	1197.2	1195.8	1192.3	1192.3	1190.2	1190.9	1193.0	1195.1	1195.8	1195.8
10°	1190.9	1193.7	1189.5	1183.8	1181.7	1178.9	1179.6	1181.7	1186.0	1188.1	1188.1
12.5°	1192.3	1194.4	1190.2	1181.7	1179.6	1176.8	1176.8	1178.9	1184.5	1187.4	1188.1
15°	1196.5	1198.6	1192.3	1183.1	1181.0	1178.9	1178.2	1181.0	1187.4	1192.3	1193.0
17.5°	1204.2	1206.3	1196.5	1183.8	1181.0	1181.7	1181.0	1183.1	1193.0	1202.1	1202.1
20°	1211.2	1212.6	1199.3	1183.8	1181.0	1181.7	1181.0	1185.2	1197.9	1210.5	1211.2
22.5°	1213.3	1214.7	1202.1	1188.8	1186.7	1187.4	1186.7	1190.9	1202.8	1215.4	1215.4
25°	1214.0	1216.1	1206.3	1195.8	1199.3	1200.7	1199.3	1200.0	1209.1	1220.4	1219.7
27.5°	1224.6	1227.4	1218.2	1209.1	1211.2	1210.5	1212.6	1214.7	1221.8	1233.0	1230.2
30°	1246.3	1248.4	1240.7	1231.6	1230.2	1225.3	1231.6	1238.6	1246.3	1256.2	1254.1
32.5°	1282.1	1286.4	1276.5	1266.7	1260.4	1257.6	1262.5	1274.4	1285.0	1295.5	1291.3
35°	1341.8	1344.6	1335.5	1317.3	1306.0	1306.0	1310.2	1325.7	1342.5	1355.9	1351.0
37.5°	1426.1	1429.6	1413.5	1391.7	1374.8	1374.8	1380.4	1396.6	1421.9	1440.8	1433.8
40°	1528.6	1533.5	1513.2	1490.7	1474.5	1471.7	1478.8	1497.0	1520.9	1544.8	1537.0
42.5°	1652.2	1657.8	1631.1	1611.5	1598.8	1598.8	1602.3	1619.2	1641.0	1670.4	1668.3
45°	1810.2	1820.0	1783.5	1763.8	1751.9	1754.7	1756.8	1771.6	1791.2	1824.9	1823.5
47.5°	1998.4	2008.2	1969.6	1949.2	1947.1	1960.4	1952.0	1962.5	1973.1	2011.7	2000.5
50°	2211.8	2228.7	2202.0	2200.6	2204.8	2229.4	2209.7	2215.3	2203.4	2228.0	2213.2
52.5°	2473.0	2497.6	2492.7	2501.1	2548.1	2598.7	2553.8	2534.1	2489.2	2496.9	2470.9
55°	2789.7	2826.9	2833.9	2884.5	2991.2	3094.4	2998.9	2919.6	2824.1	2806.5	2779.2
57.5°	3149.9	3179.4	3213.1	3316.3	3515.7	3699.0	3515.7	3340.2	3189.9	3154.1	3128.8
60°	3537.5	3574.0	3606.3	3758.7	4055.0	4312.7	4049.4	3770.6	3571.9	3523.4	3481.3
62.5°	3953.9	4000.9	4023.4	4192.6	4538.1	4845.6	4543.0	4205.2	3984.8	3932.8	3890.7
65°	4353.4	4392.0	4417.3	4597.8	4927.8	5236.0	4950.2	4617.4	4390.6	4322.5	4288.8
67.5°	4539.5	4560.5	4622.3	4826.7	5174.9	5526.7	5233.9	4848.4	4594.9	4475.6	4477.0
70°	4267.0	4224.2	4373.1	4700.3	5204.4	5705.1	5271.8	4690.4	4380.1	4186.3	4232.6
72.5°	3297.3	3223.6	3482.0	4041.6	4867.4	5591.3	4901.1	4073.2	3642.8	3249.6	3347.2
75°	1794.0	1710.5	2067.2	2774.9	3881.5	4846.3	3970.7	2854.3	2301.7	1780.7	1896.5
77.5°	506.3	474.7	762.5	1342.5	2334.7	3402.7	2424.6	1372.0	904.4	536.5	596.1
80°	155.2	150.3	203.6	404.4	991.5	1629.7	952.8	409.4	259.1	163.6	172.7
82.5°	92.0	84.3	101.1	147.5	252.8	511.9	245.8	153.8	123.6	82.9	89.9
85°	52.7	49.2	59.7	71.6	85.0	108.8	70.9	73.0	66.0	44.2	46.3
87.5°	21.8	19.7	23.2	22.5	19.7	25.3	19.0	22.5	26.7	17.6	16.1
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)