

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: P883292

Luminaire Tested: **NAV-SB3C-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883292
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-SB3C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 18461 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

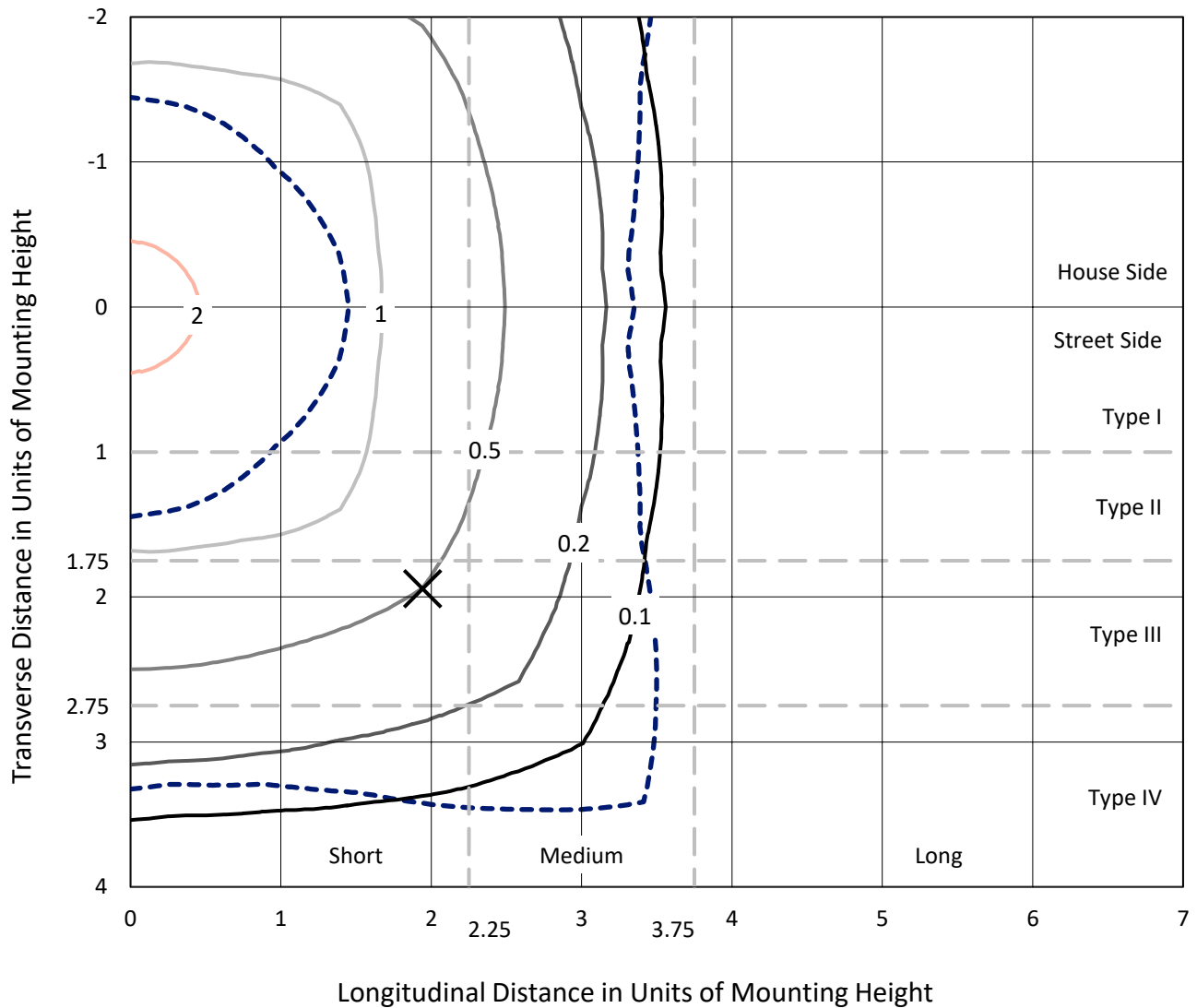
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

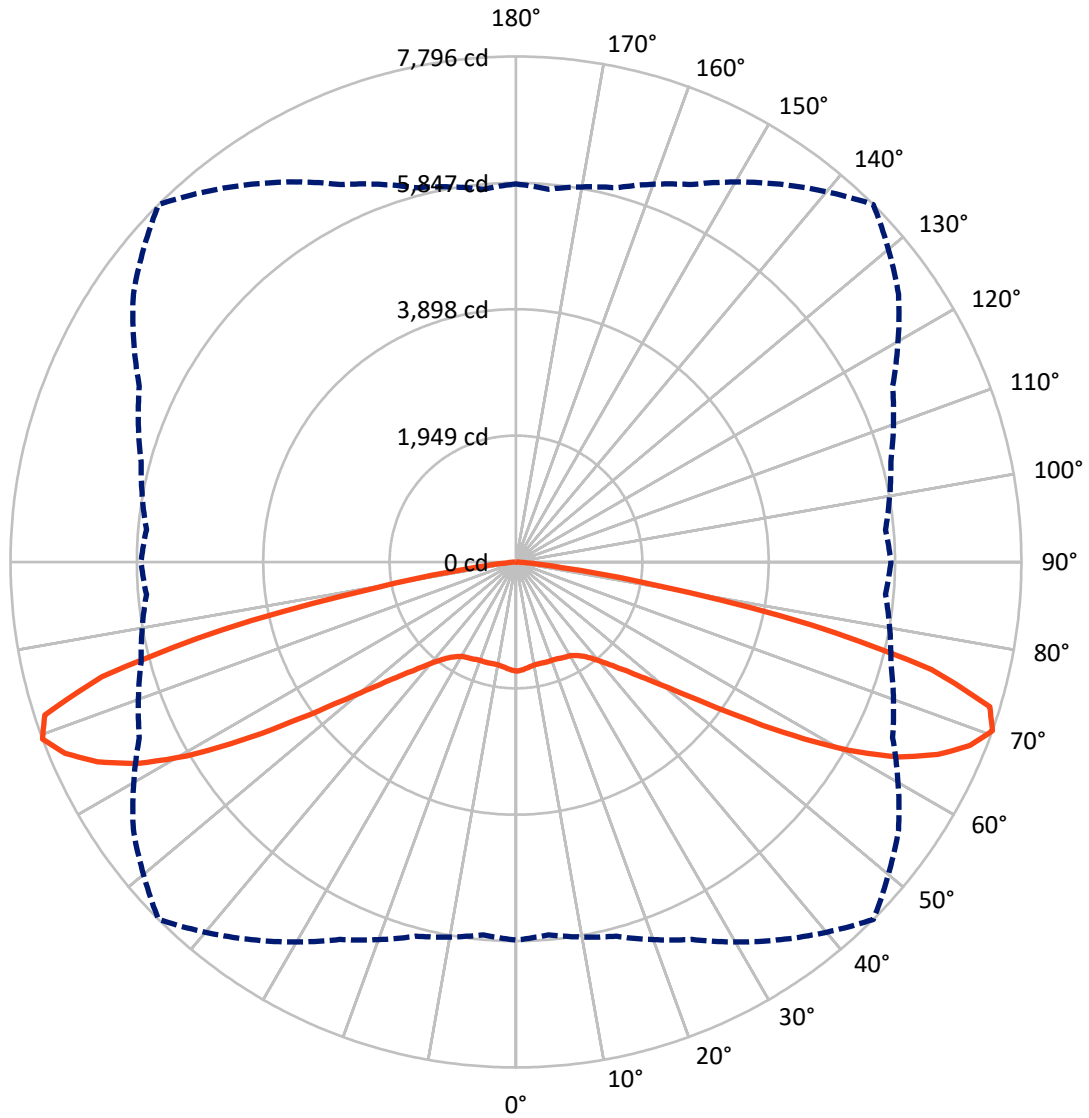
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	9230.5	0.0	9230.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9230.5	0.0	9230.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18461.0	0.0	18461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	0.8
10°-20°	460.0	2.5
20°-30°	765.5	4.1
30°-40°	1157.6	6.3
40°-50°	1923.7	10.4
50°-60°	3629.9	19.7
60°-70°	6129.2	33.2
70°-80°	4027.5	21.8
80°-90°	211.0	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°	18461.0	100.0
0°-180°	18461.0	100.0



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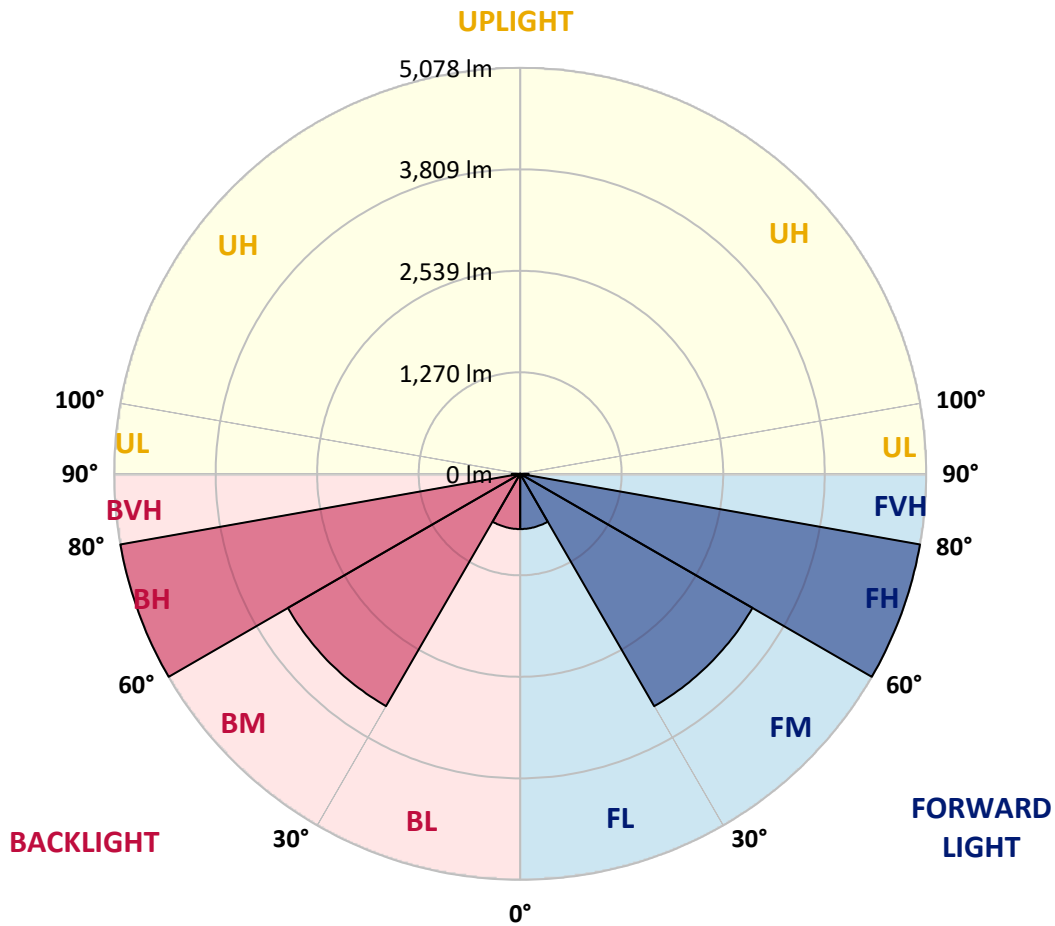
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.0	3.7			
FM (30°-60°)	3355.6	18.2			
FH (60°-80°)	5078.4	27.5			G3/7500
FVH (80°-90°)	105.5	0.6			G2/225
BL (0°-30°)	691.0	3.7	B2/1000		
BM (30°-60°)	3355.6	18.2	B3/5000		
BH (60°-80°)	5078.4	27.5	B5		G3/7500
BVH (80°-90°)	105.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1684.0	1684.0	1684.0	1684.0	1684.0	1684.0	1684.0	1684.0	1684.0	1684.0	1684.0
2.5°	1673.5	1678.3	1676.3	1672.5	1672.5	1669.6	1672.5	1674.4	1677.3	1679.2	1678.3
5°	1651.4	1655.2	1654.3	1651.4	1652.3	1649.5	1651.4	1654.3	1656.2	1657.1	1657.1
7.5°	1632.2	1636.0	1634.1	1629.3	1629.3	1626.4	1627.4	1630.3	1633.2	1634.1	1634.1
10°	1627.4	1631.2	1625.5	1617.8	1614.9	1611.1	1612.0	1614.9	1620.7	1623.6	1623.6
12.5°	1629.3	1632.2	1626.4	1614.9	1612.0	1608.2	1608.2	1611.1	1618.8	1622.6	1623.6
15°	1635.1	1638.0	1629.3	1616.8	1614.0	1611.1	1610.1	1614.0	1622.6	1629.3	1630.3
17.5°	1645.6	1648.5	1635.1	1617.8	1614.0	1614.9	1614.0	1616.8	1630.3	1642.8	1642.8
20°	1655.2	1657.1	1638.9	1617.8	1614.0	1614.9	1614.0	1619.7	1637.0	1654.3	1655.2
22.5°	1658.1	1660.0	1642.8	1624.5	1621.6	1622.6	1621.6	1627.4	1643.7	1661.0	1661.0
25°	1659.1	1661.9	1648.5	1634.1	1638.9	1640.8	1638.9	1639.9	1652.3	1667.7	1666.7
27.5°	1673.5	1677.3	1664.8	1652.3	1655.2	1654.3	1657.1	1660.0	1669.6	1685.0	1681.1
30°	1703.2	1706.1	1695.5	1683.1	1681.1	1674.4	1683.1	1692.7	1703.2	1716.6	1713.8
32.5°	1752.1	1757.9	1744.5	1731.0	1722.4	1718.6	1725.3	1741.6	1756.0	1770.4	1764.6
35°	1833.7	1837.5	1825.1	1800.1	1784.8	1784.8	1790.5	1811.6	1834.7	1852.9	1846.2
37.5°	1948.9	1953.6	1931.6	1901.8	1878.8	1878.8	1886.5	1908.6	1943.1	1969.0	1959.4
40°	2088.9	2095.7	2067.8	2037.1	2015.1	2011.2	2020.8	2045.8	2078.4	2111.0	2100.5
42.5°	2257.8	2265.5	2229.0	2202.2	2184.9	2184.9	2189.7	2212.7	2242.5	2282.8	2279.9
45°	2473.7	2487.2	2437.3	2410.4	2394.1	2397.9	2400.8	2421.0	2447.8	2493.9	2492.0
47.5°	2730.9	2744.3	2691.5	2663.7	2660.8	2679.1	2667.6	2681.9	2696.3	2749.1	2733.8
50°	3022.6	3045.6	3009.2	3007.2	3013.0	3046.6	3019.7	3027.4	3011.1	3044.7	3024.5
52.5°	3379.5	3413.1	3406.4	3417.9	3482.2	3551.3	3489.9	3463.0	3401.6	3412.2	3376.7
55°	3812.3	3863.2	3872.8	3941.8	4087.7	4228.7	4098.2	3989.8	3859.3	3835.3	3797.9
57.5°	4304.6	4344.9	4390.9	4532.0	4804.5	5054.9	4804.5	4564.6	4359.2	4310.3	4275.8
60°	4834.2	4884.1	4928.3	5136.5	5541.4	5893.8	5533.7	5152.8	4881.2	4815.0	4757.5
62.5°	5403.2	5467.5	5498.2	5729.5	6201.6	6621.9	6208.3	5746.8	5445.5	5374.5	5316.9
65°	5949.2	6002.0	6036.5	6283.2	6734.1	7155.4	6764.8	6310.0	6000.1	5907.0	5860.9
67.5°	6203.5	6232.3	6316.7	6596.0	7071.9	7552.6	7152.5	6625.7	6279.3	6116.2	6118.1
70°	5831.2	5772.7	5976.1	6423.2	7112.2	7796.4	7204.3	6409.8	5985.7	5720.9	5784.2
72.5°	4506.1	4405.3	4758.4	5523.2	6651.6	7640.9	6697.7	5566.4	4978.2	4440.8	4574.2
75°	2451.7	2337.5	2824.9	3792.2	5304.4	6622.8	5426.3	3900.6	3145.4	2433.4	2591.8
77.5°	691.8	648.7	1042.1	1834.7	3190.5	4650.0	3313.3	1875.0	1235.9	733.1	814.7
80°	212.1	205.3	278.3	552.7	1354.9	2227.1	1302.1	559.4	354.1	223.6	236.0
82.5°	125.7	115.1	138.2	201.5	345.4	699.5	335.8	210.1	168.9	113.2	122.8
85°	72.0	67.2	81.6	97.9	116.1	148.7	96.9	99.8	90.2	60.5	63.3
87.5°	29.7	26.9	31.7	30.7	26.9	34.5	25.9	30.7	36.5	24.0	22.1
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)