

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: P884625

Luminaire Tested: **NAV-SB5C-740-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5C-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

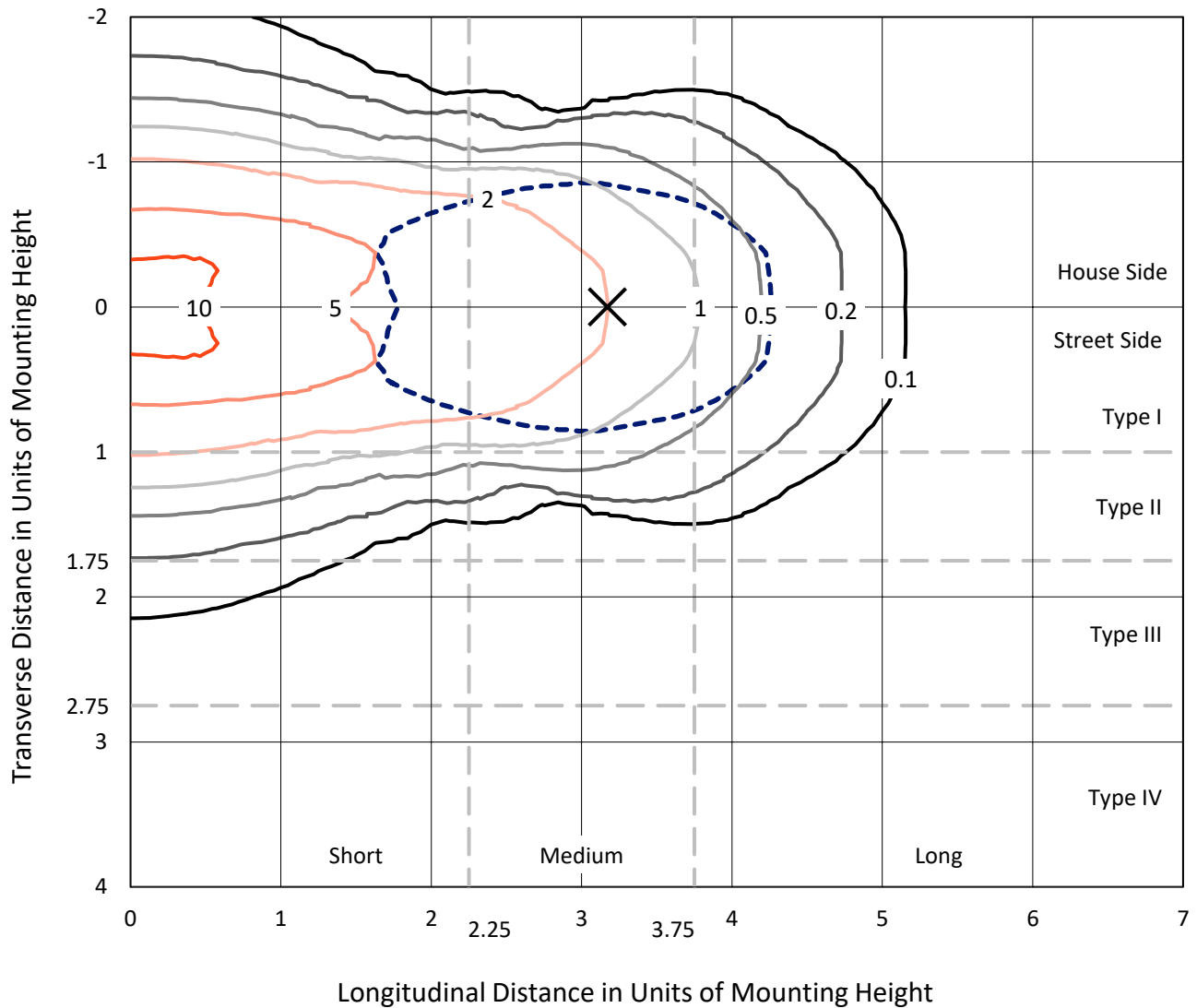
Lumens per Lamp: N/A  
Luminaire Lumens: 40531 lumens  
Efficiency: N/A  
Efficacy: 162.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

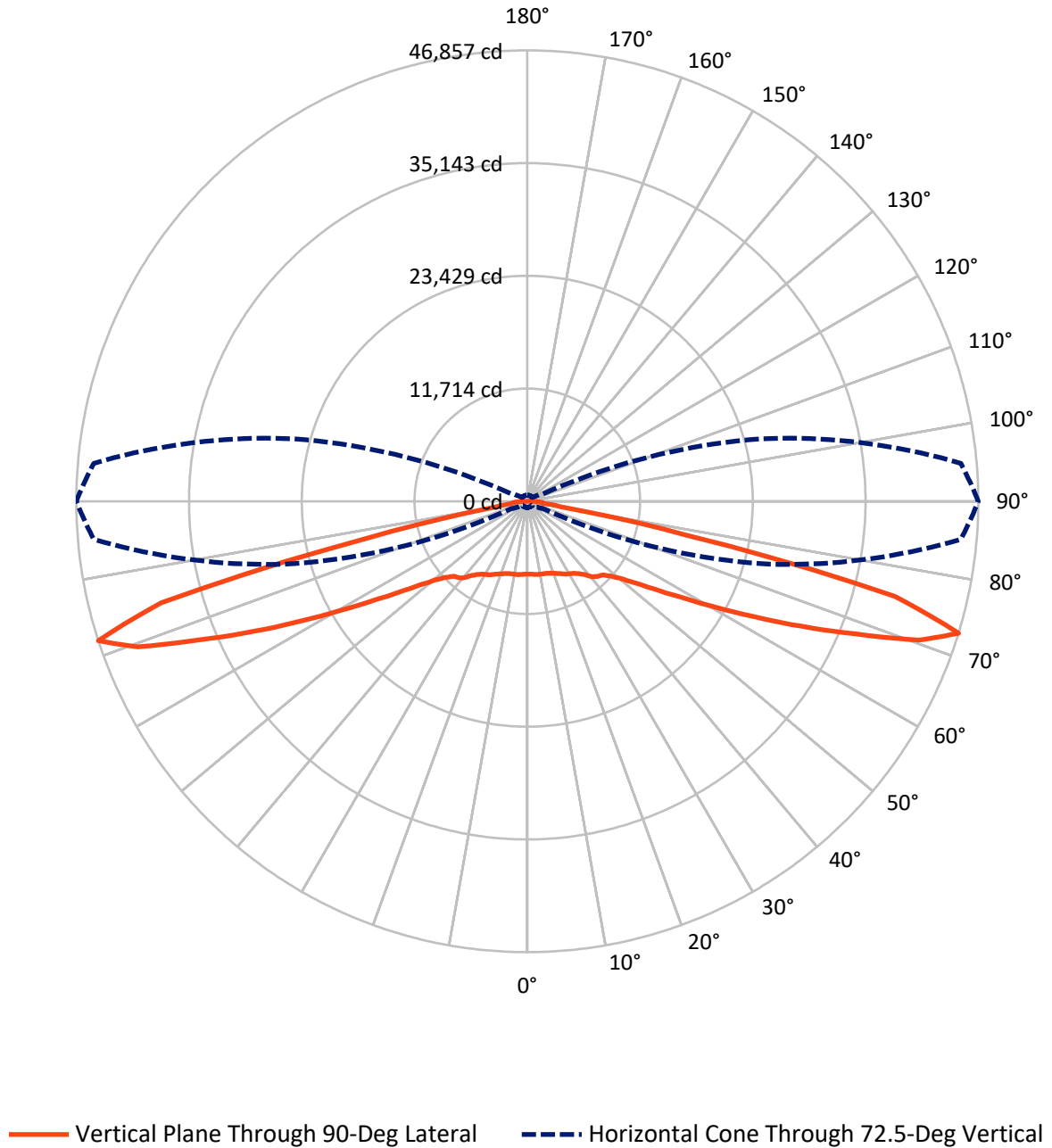
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20265.5	0.0	20265.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20265.5	0.0	20265.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40531.0	0.0	40531.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.4	1.8
10°-20°	2245.4	5.5
20°-30°	3743.9	9.2
30°-40°	5149.1	12.7
40°-50°	6288.4	15.5
50°-60°	7273.3	17.9
60°-70°	8672.2	21.4
70°-80°	6052.6	14.9
80°-90°	371.7	0.9
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°	40531.0	100.0
0°-180°	40531.0	100.0

**Coefficient of Utilization**



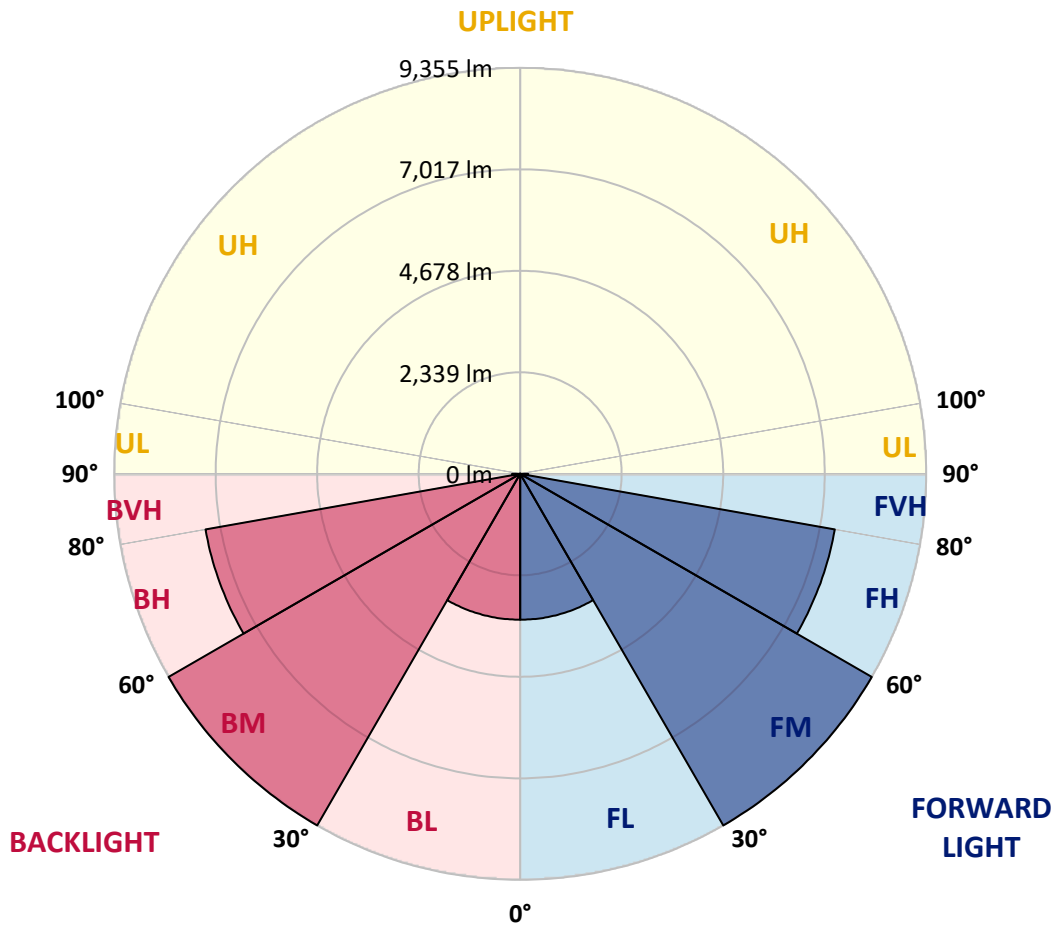
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3361.8	8.3			
FM (30°-60°)	9355.4	23.1			
FH (60°-80°)	7362.4	18.2			G3/7500
FVH (80°-90°)	185.9	0.5			G2/225
BL (0°-30°)	3361.8	8.3	B4/5000		
BM (30°-60°)	9355.4	23.1	B5		
BH (60°-80°)	7362.4	18.2	B5		G5
BVH (80°-90°)	185.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6
2.5°	7580.1	7588.7	7588.7	7582.3	7597.3	7584.4	7584.4	7578.0	7584.4	7578.0	7578.0
5°	7618.9	7629.7	7634.0	7631.8	7651.2	7640.4	7640.4	7631.8	7634.0	7627.5	7627.5
7.5°	7692.1	7707.2	7715.8	7726.6	7754.6	7741.7	7733.0	7707.2	7696.4	7679.2	7679.2
10°	7715.8	7733.0	7761.0	7817.1	7881.7	7883.8	7858.0	7793.4	7743.8	7705.0	7698.6
12.5°	7642.6	7666.3	7724.4	7838.6	7982.9	8041.1	8000.1	7892.4	7795.5	7726.6	7715.8
15°	7550.0	7575.8	7664.1	7836.4	8049.7	8185.4	8181.1	8038.9	7883.8	7776.1	7758.9
17.5°	7405.6	7431.5	7558.6	7799.8	8101.4	8325.4	8385.7	8239.2	8021.7	7877.4	7853.7
20°	7145.0	7168.7	7345.3	7683.5	8118.6	8474.0	8631.3	8502.0	8230.6	8034.6	7998.0
22.5°	6806.8	6843.4	7050.2	7483.2	8077.7	8629.1	8911.3	8823.0	8474.0	8202.6	8153.1
25°	6444.9	6483.7	6724.9	7237.6	7972.1	8741.1	9243.0	9187.0	8749.8	8411.6	8342.6
27.5°	6132.6	6173.5	6436.3	6994.2	7808.4	8784.2	9570.5	9598.5	9083.6	8642.1	8568.8
30°	5887.0	5925.8	6205.8	6798.2	7597.3	8741.1	9856.9	10050.8	9424.0	8842.4	8736.8
32.5°	5617.8	5667.3	5962.4	6559.1	7347.5	8637.7	10106.8	10539.8	9818.2	9057.8	8924.2
35°	5277.4	5322.7	5632.8	6231.7	7020.1	8471.9	10315.8	11082.6	10382.5	9385.2	9236.6
37.5°	4863.8	4906.9	5215.0	5822.4	6694.8	8239.2	10475.2	11694.3	11054.6	9856.9	9658.8
40°	4448.1	4489.0	4777.7	5365.7	6304.9	7942.0	10531.2	12293.2	11825.7	10505.3	10294.2
42.5°	4066.8	4103.5	4368.4	4915.5	5867.6	7562.9	10457.9	12814.5	12517.2	10957.7	10686.2
45°	3715.7	3748.0	3982.8	4493.4	5413.1	7101.9	10238.2	13374.5	13340.0	11280.8	10914.6
47.5°	3315.1	3347.4	3590.8	4084.1	4958.6	6561.2	9865.6	13925.9	14483.8	12013.1	11591.0
50°	2826.1	2854.1	3104.0	3612.3	4486.9	5986.1	9348.6	14358.9	15927.1	13122.5	12592.6
52.5°	2246.7	2276.8	2520.2	3028.6	3926.8	5367.9	8667.9	14641.1	17594.3	14742.3	14089.7
55°	1671.5	1693.1	1904.2	2360.8	3233.2	4663.5	7814.9	14720.8	19485.6	16956.7	16140.3
57.5°	1212.7	1225.7	1361.4	1701.7	2451.3	3782.5	6778.8	14514.0	21736.5	19795.7	18768.3
60°	982.2	986.6	1027.5	1178.3	1703.9	2787.3	5527.3	13803.2	24179.2	23455.5	22160.9
62.5°	891.8	891.8	902.5	943.5	1152.4	1839.6	4013.0	12329.8	26798.6	28080.2	26346.2
65°	829.3	829.3	833.6	853.0	909.0	1171.8	2533.2	9930.2	29006.5	33497.7	31304.8
67.5°	773.3	775.5	773.3	779.8	812.1	865.9	1469.1	6858.5	30195.5	39111.1	36743.8
70°	715.1	719.5	708.7	708.7	734.5	736.7	919.8	3761.0	29208.9	43815.6	43193.0
72.5°	646.2	652.7	635.4	631.1	650.5	641.9	691.5	1805.1	25077.5	45220.0	46857.1
75°	585.9	594.5	555.7	545.0	545.0	538.5	562.2	926.2	16276.0	36888.1	39455.8
77.5°	532.1	549.3	486.8	452.4	443.7	424.3	458.8	566.5	7119.1	17318.6	16958.8
80°	439.4	463.1	400.7	359.7	344.6	323.1	361.9	396.3	2117.4	4021.6	3851.4
82.5°	327.4	338.2	284.3	256.3	243.4	228.3	271.4	275.7	689.3	1423.8	1609.1
85°	208.9	213.3	174.5	150.8	144.3	137.9	172.3	150.8	262.8	1046.9	1520.8
87.5°	73.2	84.0	66.8	60.3	64.6	53.9	79.7	45.2	73.2	738.8	915.5
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)