

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: P884305

Luminaire Tested: **NAV-SB5A-760-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884305  
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-SB5A-760-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

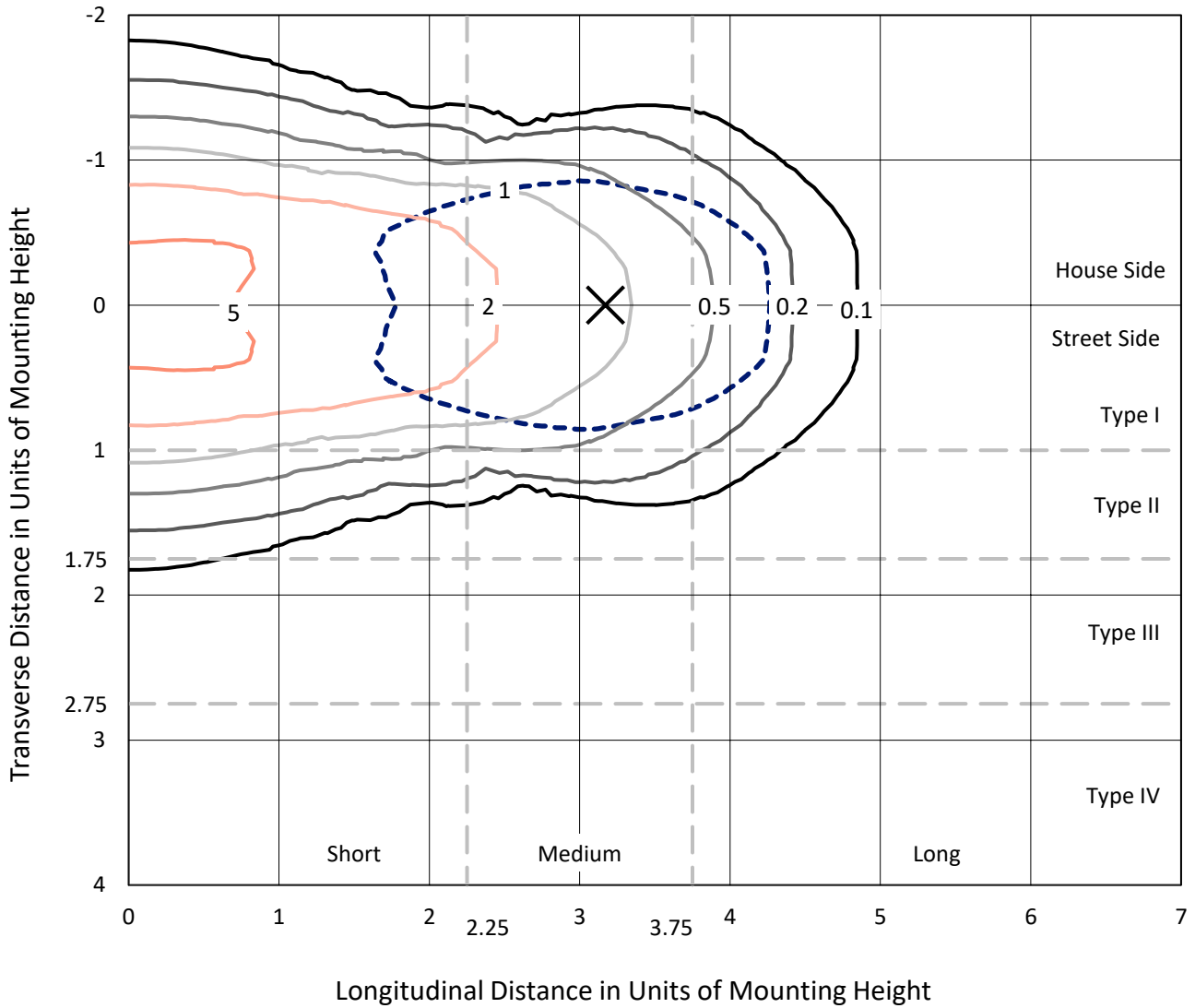
Lumens per Lamp: N/A  
Luminaire Lumens: 24277 lumens  
Efficiency: N/A  
Efficacy: 171.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.201  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 10.503  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P884305  
 CATALOG NUMBER: NAV-SB5A-760-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

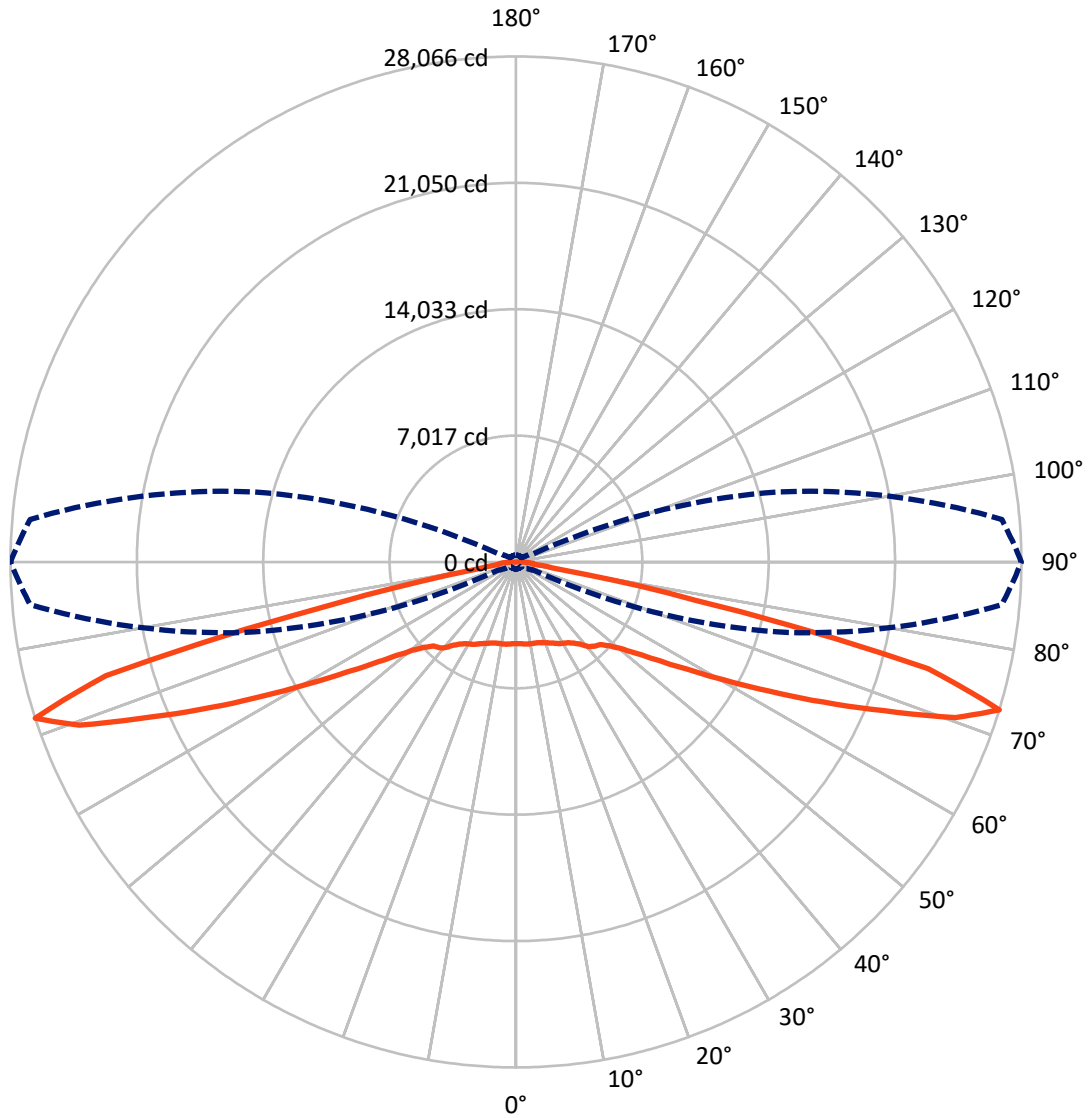
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type I - Short - N/A

REPORT NUMBER: P884305  
CATALOG NUMBER: NAV-SB5A-760-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P884305  
 CATALOG NUMBER: NAV-SB5A-760-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12138.5	0.0	12138.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12138.5	0.0	12138.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24277.0	0.0	24277.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.9	1.8
10°-20°	1344.9	5.5
20°-30°	2242.5	9.2
30°-40°	3084.2	12.7
40°-50°	3766.6	15.5
50°-60°	4356.5	17.9
60°-70°	5194.4	21.4
70°-80°	3625.3	14.9
80°-90°	222.7	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°	24277.0	100.0
0°-180°	24277.0	100.0



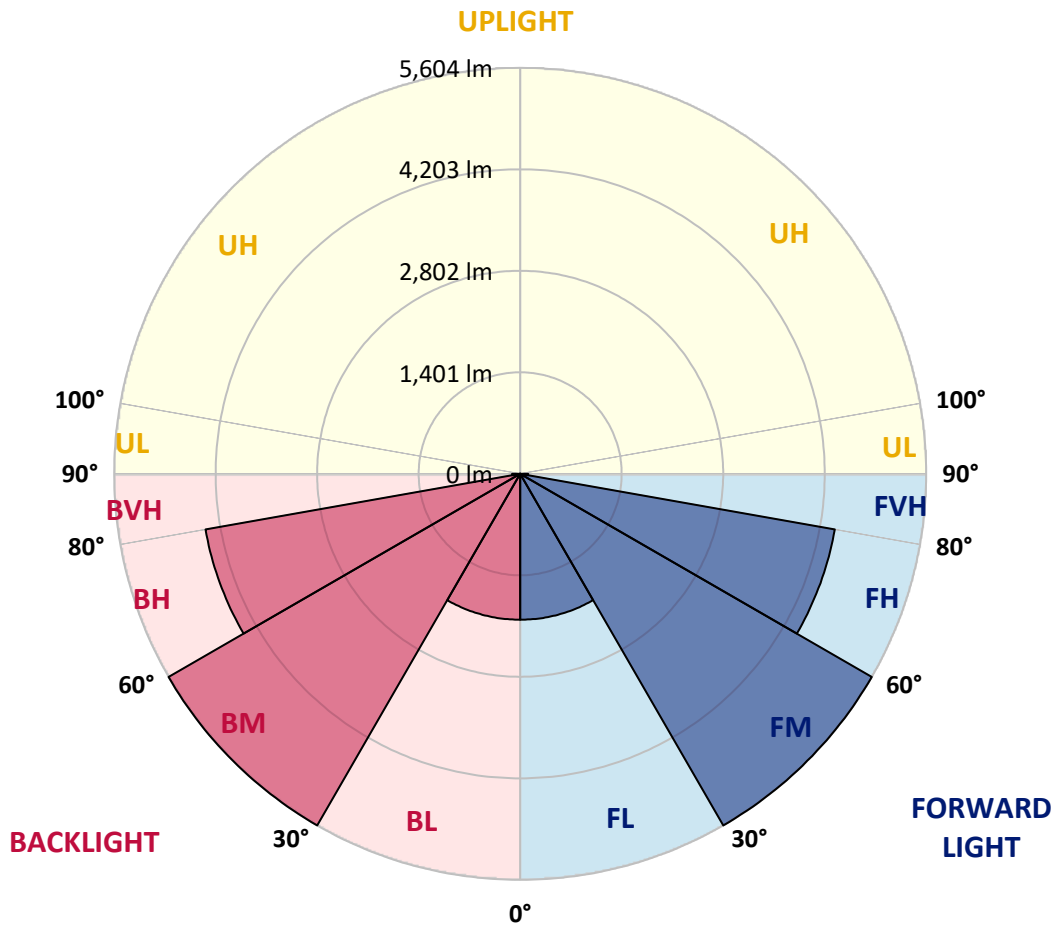
REPORT NUMBER: P884305  
 CATALOG NUMBER: NAV-SB5A-760-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.7	8.3			
FM (30°-60°)	5603.6	23.1			
FH (60°-80°)	4409.9	18.2			G2/5000
FVH (80°-90°)	111.3	0.5			G2/225
BL (0°-30°)	2013.7	8.3	B3/2500		
BM (30°-60°)	5603.6	23.1	B4/8500		
BH (60°-80°)	4409.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	111.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



REPORT NUMBER: P884305  
 CATALOG NUMBER: NAV-SB5A-760-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4
2.5°	4540.3	4545.4	4545.4	4541.6	4550.6	4542.9	4542.9	4539.0	4542.9	4539.0	4539.0
5°	4563.5	4570.0	4572.5	4571.2	4582.9	4576.4	4576.4	4571.2	4572.5	4568.7	4568.7
7.5°	4607.4	4616.4	4621.6	4628.0	4644.8	4637.1	4631.9	4616.4	4610.0	4599.6	4599.6
10°	4621.6	4631.9	4648.7	4682.2	4720.9	4722.2	4706.7	4668.0	4638.3	4615.1	4611.2
12.5°	4577.7	4591.9	4626.7	4695.1	4781.6	4816.4	4791.9	4727.4	4669.3	4628.0	4621.6
15°	4522.2	4537.7	4590.6	4693.8	4821.6	4902.8	4900.3	4815.1	4722.2	4657.7	4647.4
17.5°	4435.8	4451.3	4527.4	4671.9	4852.5	4986.7	5022.8	4935.1	4804.8	4718.3	4704.1
20°	4279.7	4293.9	4399.7	4602.2	4862.8	5075.7	5169.9	5092.5	4929.9	4812.5	4790.6
22.5°	4077.1	4099.0	4222.9	4482.2	4838.3	5168.6	5337.6	5284.7	5075.7	4913.2	4883.5
25°	3860.3	3883.6	4028.1	4335.1	4775.1	5235.7	5536.3	5502.8	5240.9	5038.3	4997.0
27.5°	3673.3	3697.8	3855.2	4189.3	4677.0	5261.5	5732.4	5749.2	5440.9	5176.4	5132.5
30°	3526.2	3549.4	3717.1	4071.9	4550.6	5235.7	5904.0	6020.2	5644.7	5296.4	5233.1
32.5°	3364.9	3394.6	3571.3	3928.7	4400.9	5173.8	6053.7	6313.0	5880.8	5425.4	5345.4
35°	3161.0	3188.1	3373.9	3732.6	4204.8	5074.4	6178.9	6638.2	6218.9	5621.5	5532.5
37.5°	2913.3	2939.1	3123.6	3487.5	4010.0	4935.1	6274.3	7004.6	6621.4	5904.0	5785.3
40°	2664.3	2688.8	2861.7	3213.9	3776.5	4757.0	6307.9	7363.3	7083.3	6292.4	6166.0
42.5°	2435.9	2457.9	2616.6	2944.3	3514.6	4530.0	6264.0	7675.5	7497.5	6563.3	6400.8
45°	2225.6	2245.0	2385.6	2691.4	3242.3	4253.9	6132.4	8011.0	7990.3	6756.9	6537.5
47.5°	1985.6	2005.0	2150.8	2446.3	2970.1	3930.0	5909.2	8341.3	8675.4	7195.6	6942.7
50°	1692.8	1709.5	1859.2	2163.7	2687.5	3585.5	5599.6	8600.6	9539.9	7860.0	7542.6
52.5°	1345.7	1363.8	1509.6	1814.0	2352.1	3215.2	5191.8	8769.6	10538.5	8830.3	8439.3
55°	1001.2	1014.1	1140.6	1414.1	1936.6	2793.3	4680.9	8817.4	11671.3	10156.6	9667.6
57.5°	726.4	734.1	815.4	1019.3	1468.3	2265.6	4060.3	8693.5	13019.6	11857.1	11241.7
60°	588.3	590.9	615.4	705.8	1020.6	1669.5	3310.7	8267.7	14482.7	14049.2	13273.8
62.5°	534.2	534.2	540.6	565.1	690.3	1101.8	2403.7	7385.2	16051.6	16819.3	15780.7
65°	496.7	496.7	499.3	510.9	544.5	701.9	1517.3	5947.9	17374.1	20064.2	18750.8
67.5°	463.2	464.5	463.2	467.1	486.4	518.7	879.9	4108.1	18086.3	23426.5	22008.6
70°	428.4	430.9	424.5	424.5	440.0	441.3	550.9	2252.7	17495.4	26244.4	25871.5
72.5°	387.1	390.9	380.6	378.0	389.6	384.5	414.2	1081.2	15020.7	27085.6	28066.2
75°	350.9	356.1	332.9	326.4	326.4	322.6	336.7	554.8	9748.9	22095.0	23633.0
77.5°	318.7	329.0	291.6	270.9	265.8	254.2	274.8	339.3	4264.2	10373.4	10157.9
80°	263.2	277.4	240.0	215.5	206.4	193.5	216.8	237.4	1268.3	2408.8	2306.9
82.5°	196.1	202.6	170.3	153.5	145.8	136.8	162.6	165.1	412.9	852.8	963.8
85°	125.2	127.7	104.5	90.3	86.4	82.6	103.2	90.3	157.4	627.0	910.9
87.5°	43.9	50.3	40.0	36.1	38.7	32.3	47.7	27.1	43.9	442.5	548.3
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)