

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: P971355

Luminaire Tested: **NAV-SB6D-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58037.5 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

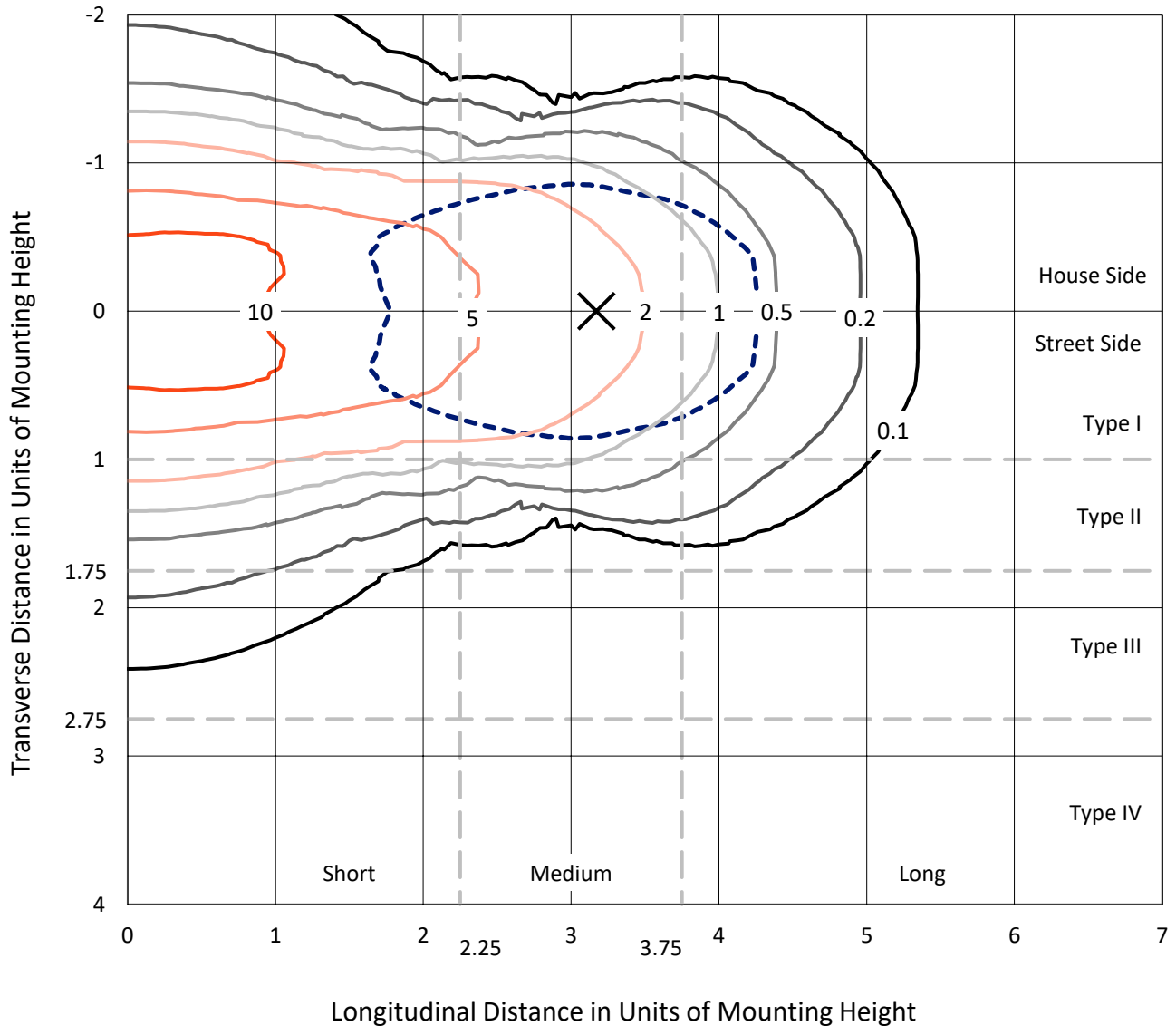
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

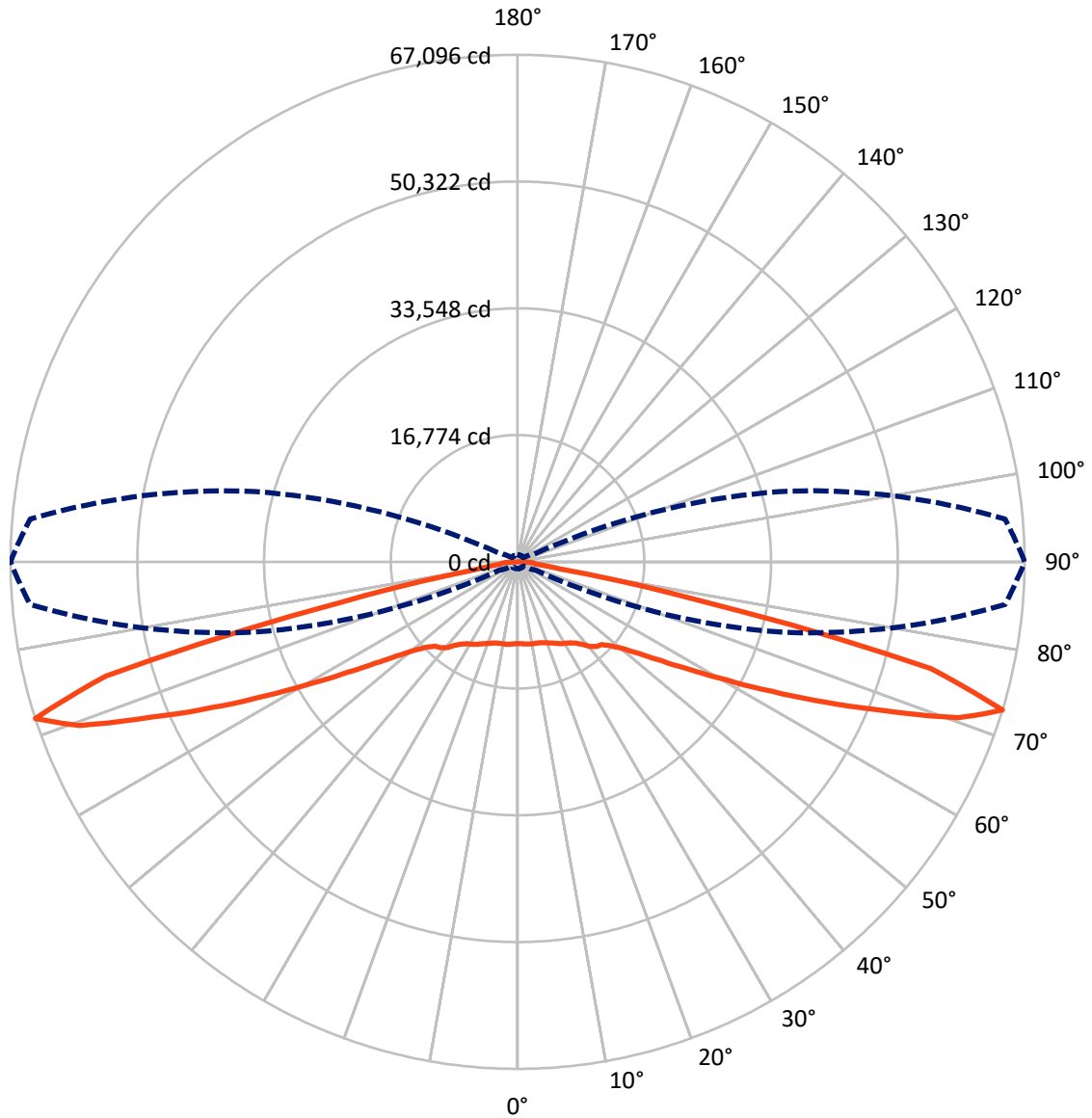
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29018.8	0.0	29018.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29018.8	0.0	29018.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	58037.5	0.0	58037.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1051.5	1.8
10°-20°	3215.2	5.5
20°-30°	5361.1	9.2
30°-40°	7373.1	12.7
40°-50°	9004.6	15.5
50°-60°	10414.8	17.9
60°-70°	12417.9	21.4
70°-80°	8666.9	14.9
80°-90°	532.3	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°	58037.5	100.0
0°-180°	58037.5	100.0

**Coefficient of Utilization**

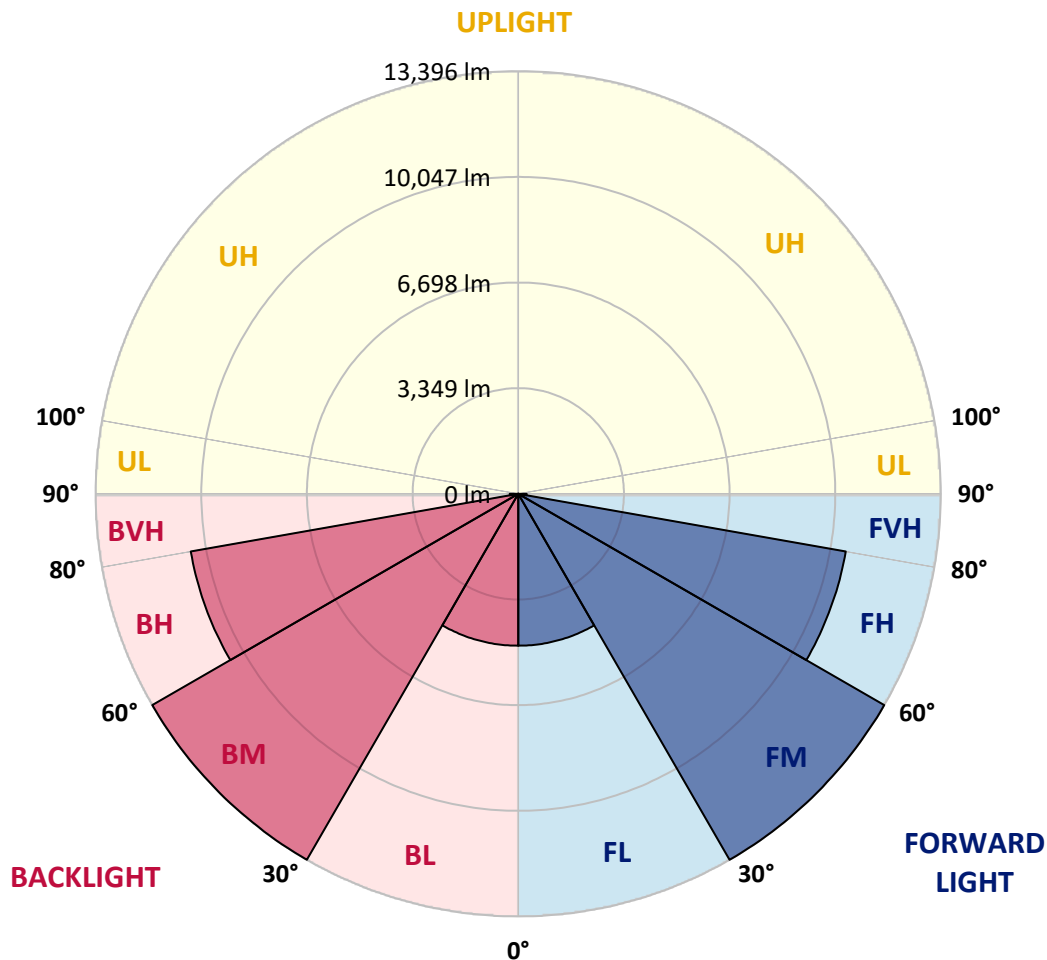


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4813.9	8.3			
FM (30°-60°)	13396.3	23.1			
FH (60°-80°)	10542.4	18.2			G4/12000
FVH (80°-90°)	266.2	0.5			G3/500
BL (0°-30°)	4813.9	8.3	B4/5000		
BM (30°-60°)	13396.3	23.1	B5		
BH (60°-80°)	10542.4	18.2	B5		G5
BVH (80°-90°)	266.2	0.5			G3/500
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°	10844.9	10844.9	10844.9	10844.9	10844.9	10844.9	10844.9	10844.9	10844.9	10844.9	10844.9
2.5°	10854.1	10866.5	10866.5	10857.3	10878.8	10860.4	10860.4	10851.1	10860.4	10851.1	10851.1
5°	10909.7	10925.2	10931.3	10928.2	10956.0	10940.5	10940.5	10928.2	10931.3	10922.0	10922.0
7.5°	11014.5	11036.2	11048.5	11064.0	11104.0	11085.5	11073.2	11036.2	11020.7	10996.1	10996.1
10°	11048.5	11073.2	11113.3	11193.5	11286.0	11289.0	11252.0	11159.6	11088.6	11033.1	11023.9
12.5°	10943.6	10977.5	11060.9	11224.4	11431.0	11514.2	11455.6	11301.4	11162.7	11064.0	11048.5
15°	10811.0	10848.0	10974.5	11221.2	11526.6	11720.9	11714.7	11511.2	11289.0	11134.9	11110.2
17.5°	10604.3	10641.3	10823.4	11168.8	11600.6	11921.4	12007.8	11798.1	11486.5	11279.8	11245.9
20°	10231.1	10265.1	10517.9	11002.2	11625.3	12134.3	12359.3	12174.3	11785.7	11505.0	11452.5
22.5°	9746.8	9799.3	10095.4	10715.3	11566.7	12356.3	12760.3	12633.9	12134.3	11745.6	11674.6
25°	9228.7	9284.2	9629.7	10363.8	11415.5	12516.7	13235.4	13155.2	12529.1	12044.8	11946.1
27.5°	8781.5	8840.0	9216.4	10015.2	11181.1	12578.4	13704.2	13744.3	13007.1	12374.8	12270.0
30°	8429.8	8485.4	8886.3	9734.5	10878.8	12516.7	14114.5	14392.0	13494.4	12661.6	12510.5
32.5°	8044.2	8115.2	8537.7	9392.2	10521.1	12368.7	14472.3	15092.2	14058.9	12970.1	12778.9
35°	7556.9	7621.7	8065.8	8923.3	10052.2	12131.2	14771.5	15869.5	14867.0	13439.0	13226.1
37.5°	6964.7	7026.4	7467.4	8337.2	9586.5	11798.1	14999.6	16745.5	15829.4	14114.5	13830.6
40°	6369.3	6428.0	6841.4	7683.4	9028.2	11372.4	15079.9	17602.9	16933.6	15042.9	14740.6
42.5°	5823.4	5875.9	6255.3	7038.7	8402.0	10829.5	14975.0	18349.4	17923.8	15690.6	15301.9
45°	5320.7	5366.9	5703.1	6434.1	7751.3	10169.4	14660.4	19151.3	19102.0	16153.3	15628.9
47.5°	4747.0	4793.2	5141.8	5848.1	7100.4	9395.3	14126.8	19941.0	20739.8	17202.0	16597.4
50°	4046.8	4086.9	4444.7	5172.7	6424.9	8571.7	13386.5	20561.0	22806.5	18790.5	18031.7
52.5°	3217.1	3260.2	3608.8	4336.8	5622.9	7686.5	12411.8	20965.0	25193.8	21110.0	20175.4
55°	2393.6	2424.3	2726.7	3380.6	4629.7	6677.9	11190.4	21079.1	27901.9	24280.8	23111.8
57.5°	1736.6	1755.0	1949.3	2436.7	3510.1	5416.3	9706.8	20783.0	31125.2	28346.1	26874.8
60°	1406.5	1412.7	1471.3	1687.2	2439.8	3991.2	7914.7	19765.2	34623.0	33586.6	31732.9
62.5°	1276.9	1276.9	1292.4	1350.9	1650.1	2634.1	5746.4	17655.4	38373.6	40208.9	37725.9
65°	1187.5	1187.5	1193.7	1221.5	1301.6	1677.9	3627.3	14219.3	41535.3	47966.3	44826.3
67.5°	1107.3	1110.4	1107.3	1116.5	1162.9	1239.9	2103.6	9820.9	43237.8	56004.4	52614.6
70°	1024.1	1030.2	1014.7	1014.7	1051.8	1054.9	1317.0	5385.5	41825.1	62740.8	61849.4
72.5°	925.4	934.6	909.9	903.7	931.5	919.1	990.1	2584.7	35909.1	64751.9	67096.1
75°	839.0	851.3	795.8	780.3	780.3	771.1	805.0	1326.4	23306.1	52821.2	56497.9
77.5°	761.9	786.6	697.1	647.7	635.4	607.6	657.0	811.2	10194.1	24799.0	24283.9
80°	629.2	663.2	573.7	515.1	493.5	462.7	518.1	567.5	3032.1	5758.7	5515.0
82.5°	468.8	484.2	407.1	367.1	348.5	327.0	388.7	394.8	987.1	2038.8	2304.1
85°	299.2	305.3	249.8	215.9	206.6	197.4	246.7	215.9	376.3	1499.1	2177.6
87.5°	104.9	120.3	95.6	86.4	92.6	77.1	114.1	64.8	104.9	1058.0	1310.9
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)