

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: P968704

Luminaire Tested: **NAV-SB5C-727-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5C-727-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

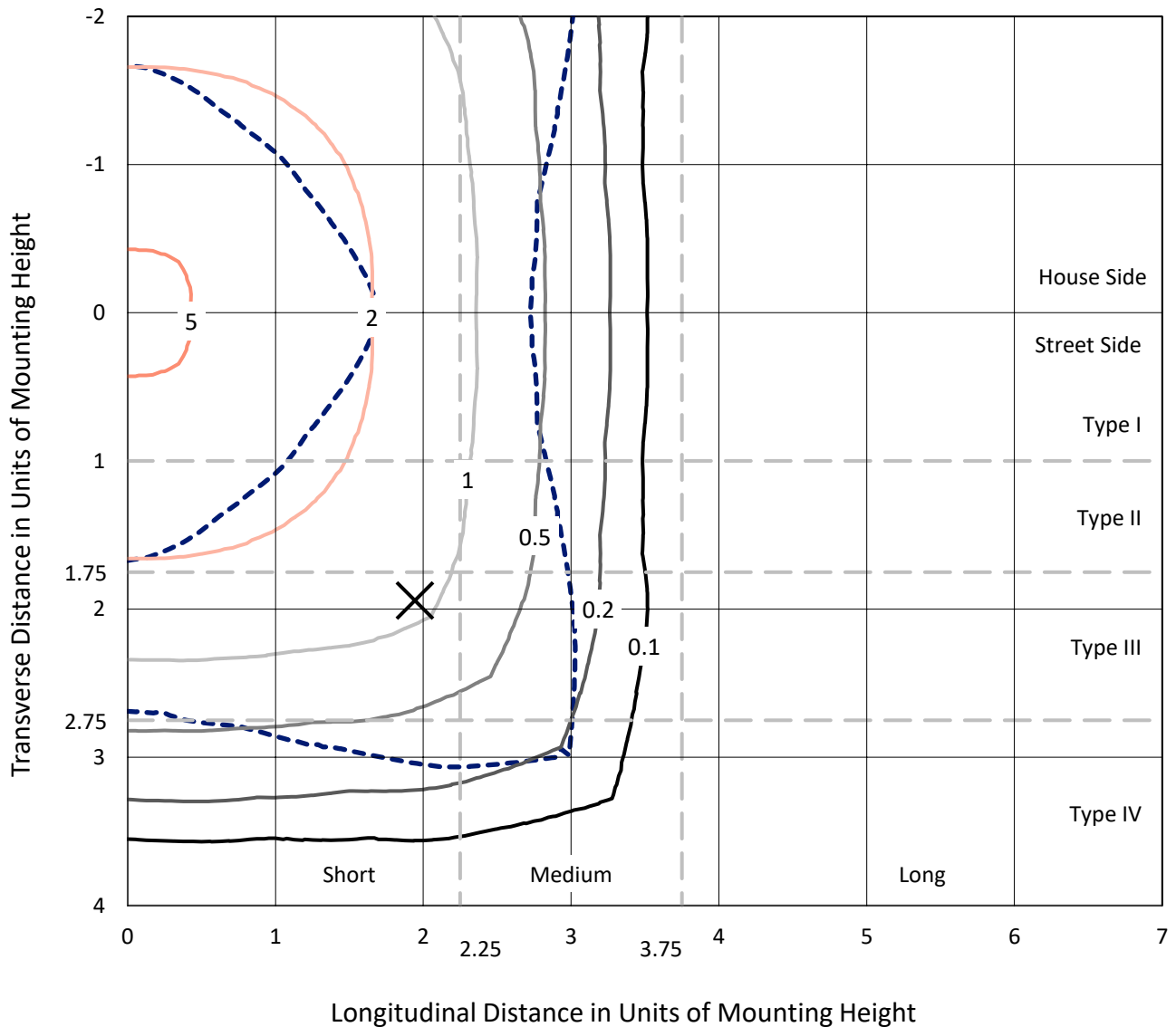
Lumens per Lamp: N/A  
Luminaire Lumens: 37666.7 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

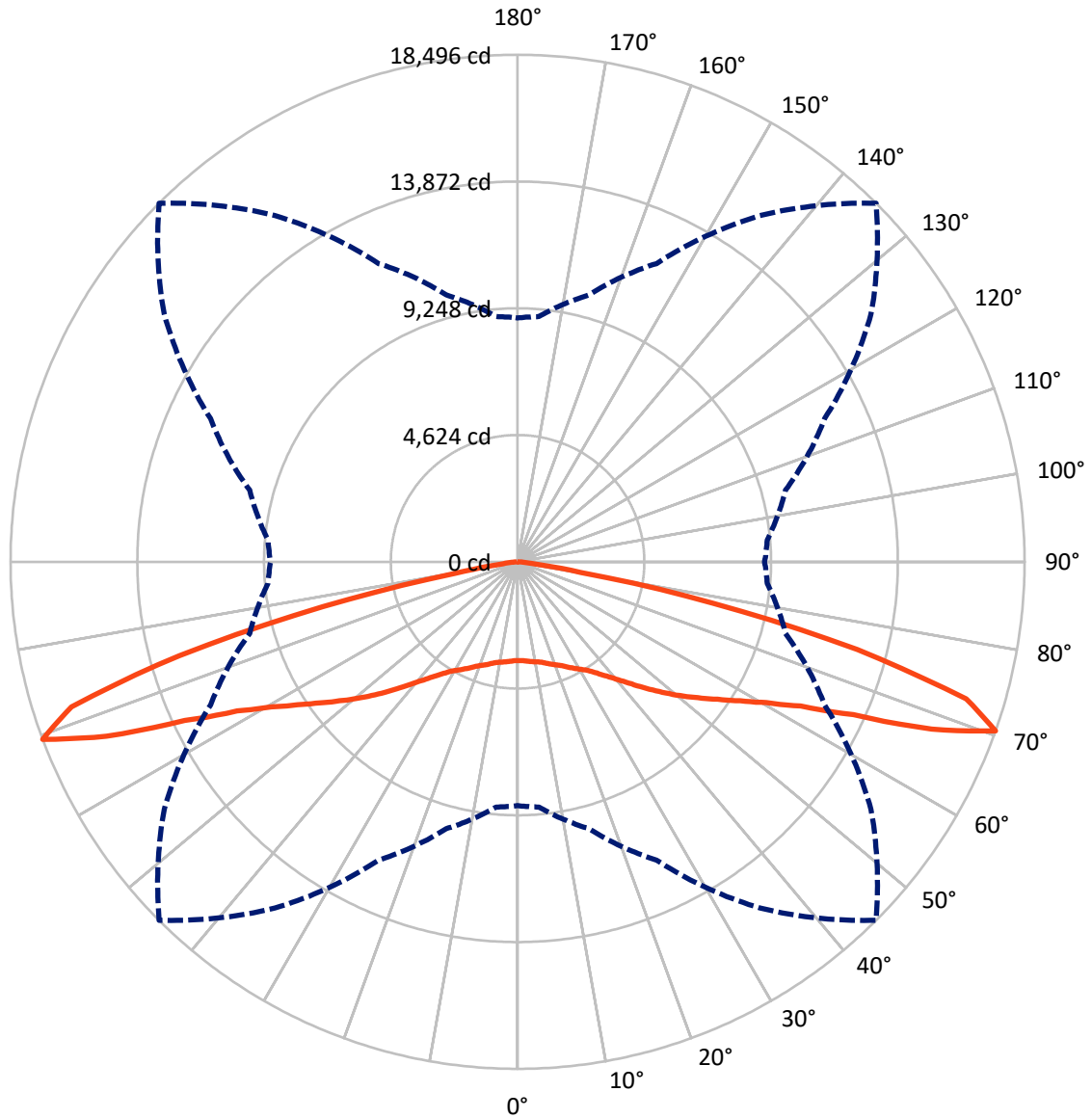
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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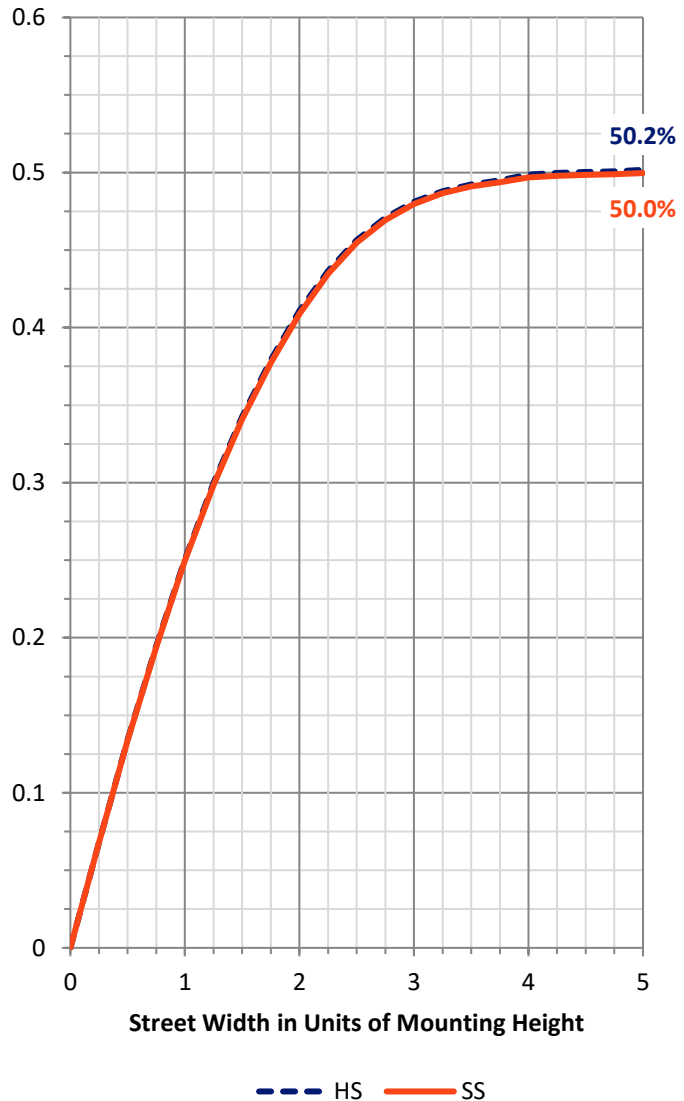
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18833.4	0.0	18833.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18833.4	0.0	18833.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37666.7	0.0	37666.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.5	0.9
10°-20°	1086.9	2.9
20°-30°	1942.5	5.2
30°-40°	3148.7	8.4
40°-50°	5128.8	13.6
50°-60°	7819.7	20.8
60°-70°	11633.2	30.9
70°-80°	6340.5	16.8
80°-90°	215.9	0.6
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°	37666.7	100.0
0°-180°	37666.7	100.0

**Coefficient of Utilization**



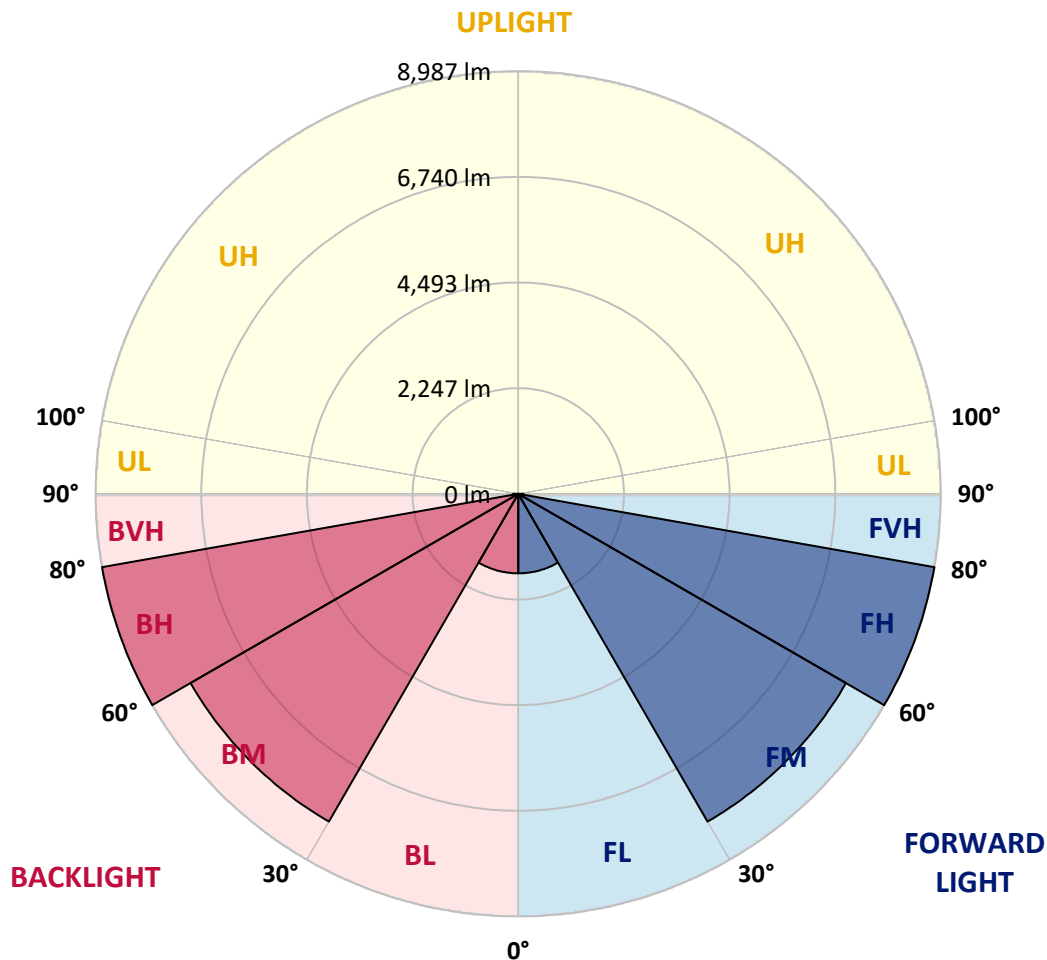
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.0	4.5			
FM (30°-60°)	8048.6	21.4			
FH (60°-80°)	8986.8	23.9			G4/12000
FVH (80°-90°)	108.0	0.3			G2/225
BL (0°-30°)	1690.0	4.5	B3/2500		
BM (30°-60°)	8048.6	21.4	B4/8500		
BH (60°-80°)	8986.8	23.9	B5		G4/12000
BVH (80°-90°)	108.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1
2.5°	3625.1	3628.9	3621.3	3617.5	3613.7	3608.1	3609.9	3619.4	3627.0	3625.1	3627.0
5°	3655.4	3659.1	3653.5	3651.6	3644.0	3642.1	3642.1	3651.6	3657.2	3653.5	3655.4
7.5°	3689.4	3695.0	3685.6	3683.7	3680.0	3676.2	3674.2	3683.7	3689.4	3689.4	3689.4
10°	3721.6	3727.2	3719.6	3714.0	3710.2	3710.2	3706.4	3714.0	3723.4	3721.6	3721.6
12.5°	3755.6	3759.4	3751.8	3748.0	3748.0	3753.7	3748.0	3751.8	3759.4	3755.6	3753.7
15°	3797.2	3799.1	3797.2	3802.9	3812.3	3831.2	3814.2	3810.4	3814.2	3804.7	3804.7
17.5°	3853.9	3857.7	3865.3	3878.5	3891.7	3925.7	3895.5	3886.1	3886.1	3867.1	3867.1
20°	3923.9	3929.5	3940.9	3963.6	3980.6	4012.8	3982.5	3969.3	3963.6	3939.0	3939.0
22.5°	3997.6	4007.1	4024.2	4054.4	4084.6	4114.9	4084.6	4062.0	4045.0	4012.8	4010.8
25°	4082.7	4094.1	4120.5	4169.7	4211.3	4254.8	4218.9	4173.5	4139.5	4094.1	4092.2
27.5°	4203.7	4217.0	4249.1	4309.6	4362.6	4400.4	4366.4	4307.8	4260.5	4205.7	4203.7
30°	4374.0	4387.2	4425.0	4489.3	4525.3	4549.8	4527.1	4481.7	4425.0	4362.6	4362.6
32.5°	4593.3	4610.3	4652.0	4712.4	4720.0	4723.8	4716.2	4693.6	4652.0	4576.3	4578.2
35°	4871.3	4890.2	4937.4	4986.6	4979.0	4986.6	4975.2	4967.8	4937.4	4850.5	4850.5
37.5°	5211.7	5234.4	5283.6	5321.4	5302.4	5293.0	5294.8	5296.8	5279.8	5183.3	5183.3
40°	5606.9	5637.2	5673.1	5712.8	5680.7	5652.3	5671.2	5686.3	5671.2	5572.8	5572.8
42.5°	6013.5	6056.9	6094.8	6151.5	6125.0	6089.1	6115.6	6132.6	6100.5	5994.5	6002.1
45°	6465.4	6507.0	6556.2	6641.3	6622.4	6584.6	6622.4	6626.1	6571.3	6446.5	6459.8
47.5°	6932.5	6976.0	7049.7	7163.2	7155.6	7114.0	7163.2	7136.8	7066.8	6917.4	6907.9
50°	7375.0	7435.6	7549.0	7707.8	7723.0	7671.9	7738.0	7687.0	7569.8	7382.6	7378.8
52.5°	7791.0	7855.3	8035.0	8250.5	8305.4	8239.2	8328.1	8239.2	8063.4	7823.2	7800.5
55°	8227.9	8299.7	8513.4	8795.2	8904.9	8855.7	8938.9	8804.6	8555.0	8263.8	8224.1
57.5°	8742.2	8785.7	9041.0	9375.7	9561.0	9572.4	9610.2	9383.3	9080.7	8749.8	8704.4
60°	9300.0	9360.6	9638.6	10039.5	10332.6	10427.1	10387.5	10050.8	9699.1	9319.0	9258.5
62.5°	10014.9	10081.1	10413.9	10894.2	11357.5	11592.0	11436.9	10949.0	10514.1	10058.3	9979.0
65°	10606.8	10680.5	11281.9	12138.5	12981.9	13452.8	13063.2	12165.0	11382.1	10739.1	10633.2
67.5°	10177.5	10268.2	11211.9	12785.2	14882.4	16287.5	14954.2	12978.1	11444.5	10572.8	10442.3
70°	8895.4	8980.5	10081.1	12004.3	15417.5	18496.1	15739.0	12357.9	10117.0	9141.3	9010.8
72.5°	5905.6	6179.8	7293.7	9600.8	13766.7	17115.7	13902.8	9406.0	6766.1	5892.4	5701.5
75°	1959.1	2178.4	2938.7	4977.2	9220.7	12800.4	8778.1	4404.2	2327.9	1675.5	1584.6
77.5°	493.5	569.2	784.7	1423.9	3678.0	7288.1	3311.2	1163.0	633.4	442.5	395.2
80°	240.2	264.8	378.2	474.7	921.0	2316.5	864.2	446.3	298.8	230.7	211.8
82.5°	132.3	134.3	213.7	268.5	342.2	599.4	355.5	261.0	172.1	139.9	139.9
85°	81.3	79.4	113.5	143.7	143.7	213.7	170.1	143.7	98.3	87.0	90.8
87.5°	32.2	32.2	41.6	45.4	39.7	54.8	43.5	47.3	37.8	36.0	37.8
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)