

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: P970812

Luminaire Tested: **NAV-SB6C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970812
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-SB6C-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 45216.8 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

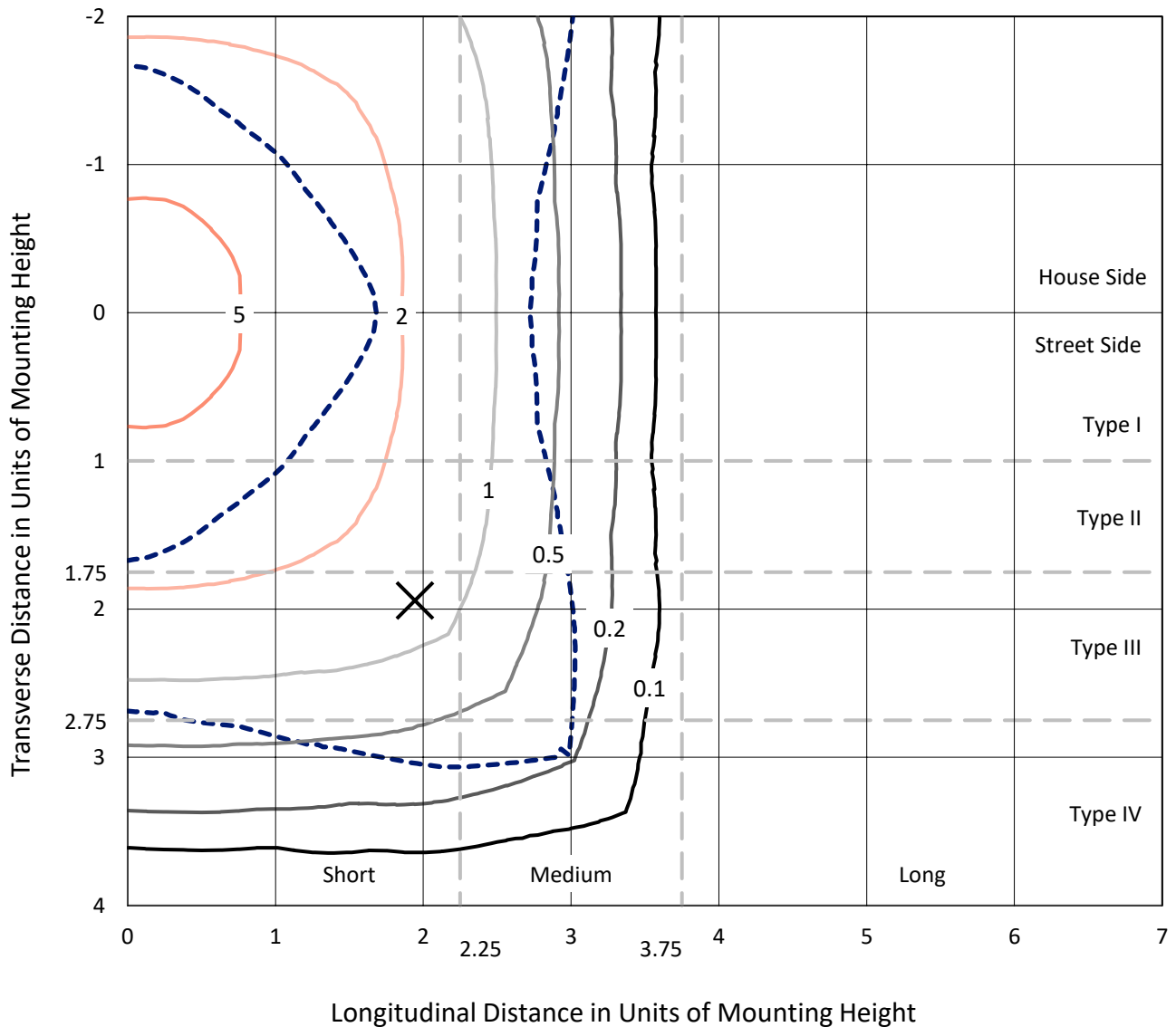
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970812
 CATALOG NUMBER: NAV-SB6C-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

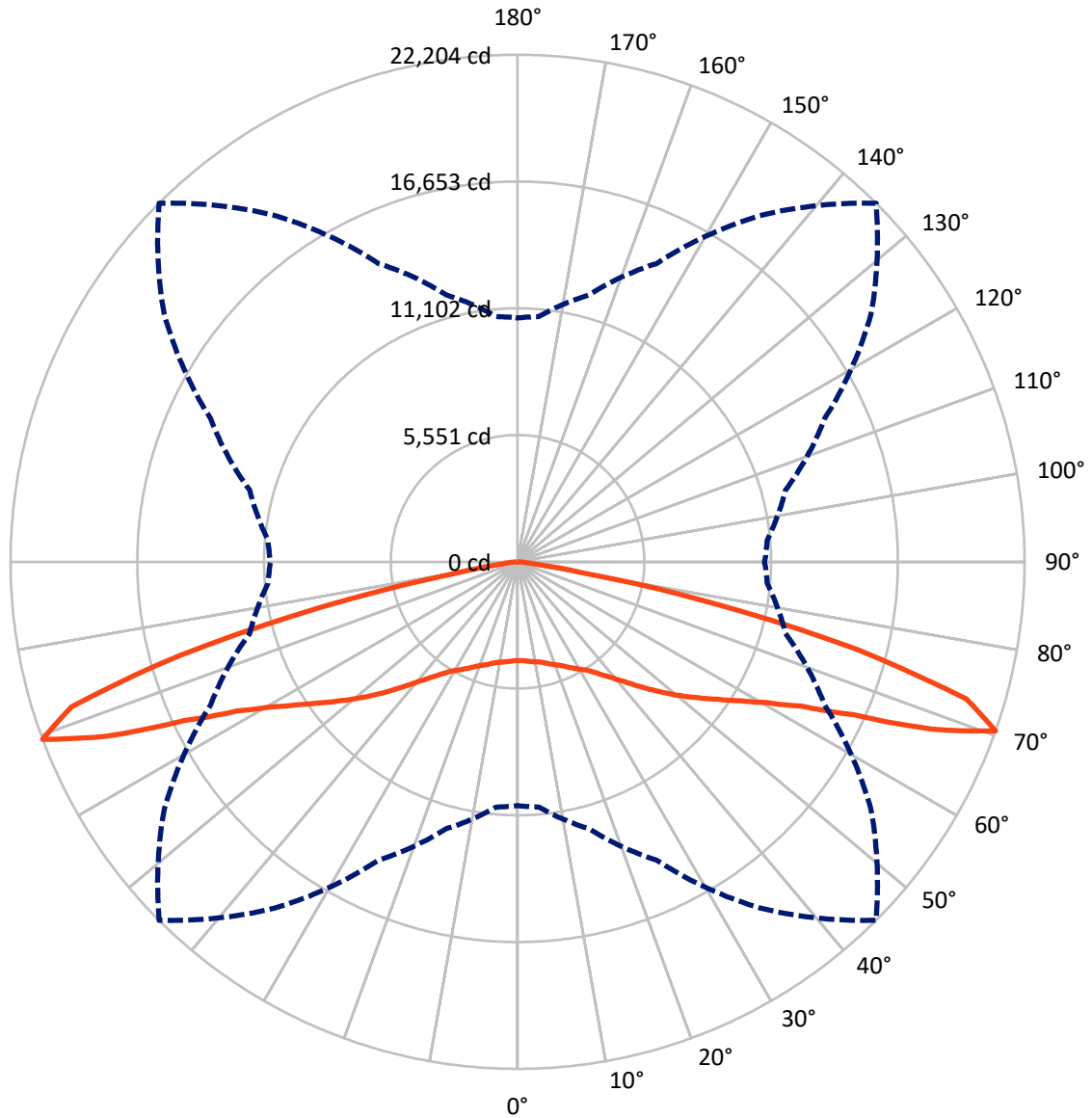
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

REPORT NUMBER: P970812
CATALOG NUMBER: NAV-SB6C-727-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P970812
 CATALOG NUMBER: NAV-SB6C-727-U-5MQ

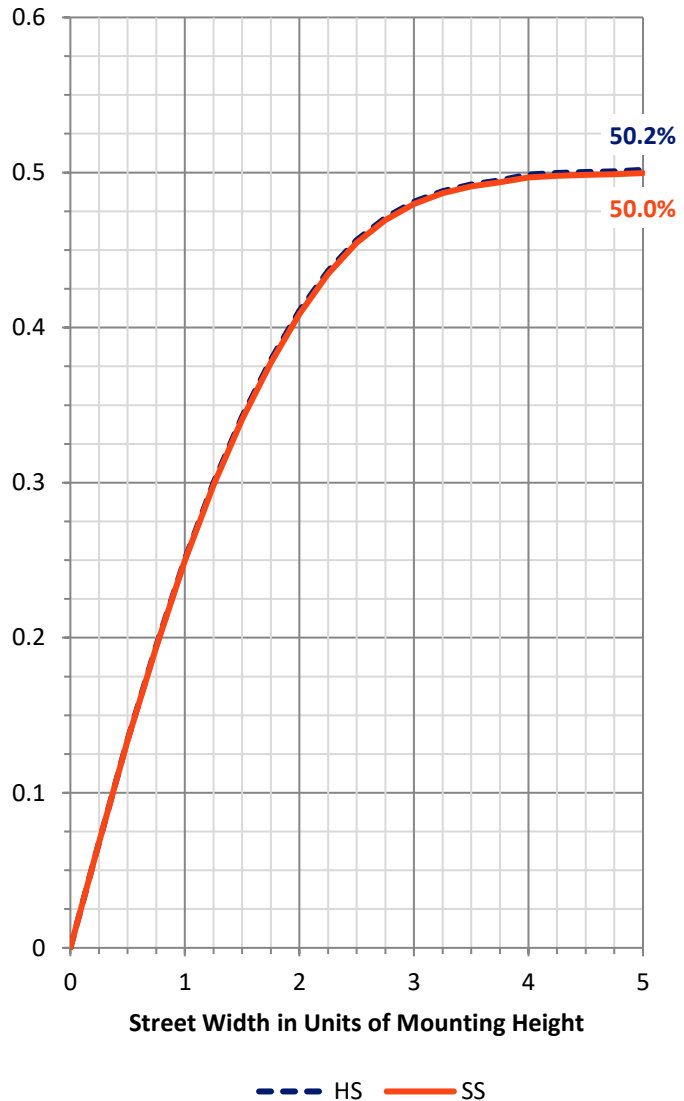
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22608.4	0.0	22608.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22608.4	0.0	22608.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	45216.8	0.0	45216.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.8	0.9
10°-20°	1304.8	2.9
20°-30°	2331.8	5.2
30°-40°	3779.9	8.4
40°-50°	6156.8	13.6
50°-60°	9387.1	20.8
60°-70°	13965.0	30.9
70°-80°	7611.4	16.8
80°-90°	259.2	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°	45216.8	100.0
0°-180°	45216.8	100.0

Coefficient of Utilization



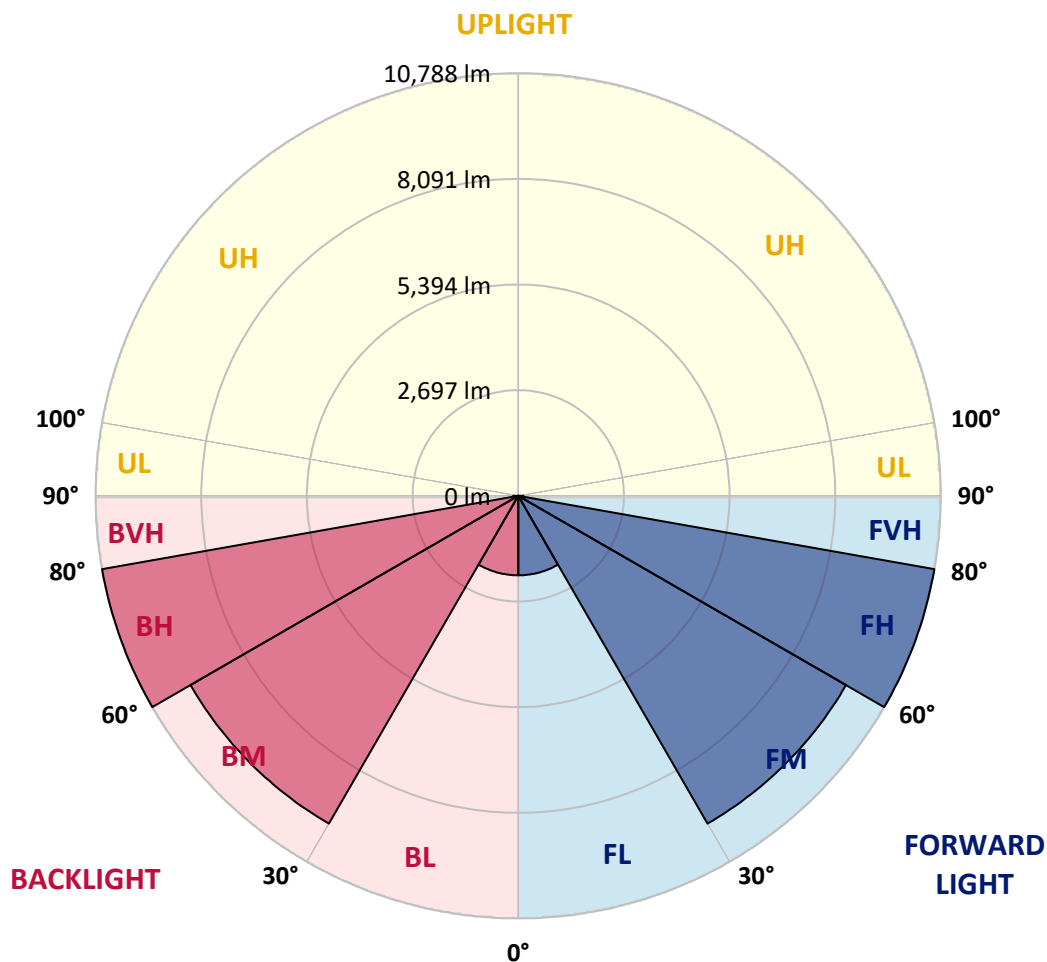
REPORT NUMBER: P970812
 CATALOG NUMBER: NAV-SB6C-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.7	4.5			
FM (30°-60°)	9661.9	21.4			
FH (60°-80°)	10788.2	23.9			G4/12000
FVH (80°-90°)	129.6	0.3			G2/225
BL (0°-30°)	2028.7	4.5	B3/2500		
BM (30°-60°)	9661.9	21.4	B5		
BH (60°-80°)	10788.2	23.9	B5		G4/12000
BVH (80°-90°)	129.6	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



REPORT NUMBER: P970812
 CATALOG NUMBER: NAV-SB6C-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4331.3	4331.3	4331.3	4331.3	4331.3	4331.3	4331.3	4331.3	4331.3	4331.3	4331.3
2.5°	4351.7	4356.2	4347.2	4342.6	4338.1	4331.3	4333.6	4345.0	4354.0	4351.7	4354.0
5°	4388.0	4392.6	4385.8	4383.5	4374.4	4372.1	4372.1	4383.5	4390.3	4385.8	4388.0
7.5°	4428.9	4435.7	4424.4	4422.2	4417.5	4413.0	4410.8	4422.2	4428.9	4428.9	4428.9
10°	4467.5	4474.3	4465.2	4458.4	4453.9	4453.9	4449.3	4458.4	4469.8	4467.5	4467.5
12.5°	4508.4	4512.9	4503.8	4499.3	4499.3	4506.1	4499.3	4503.8	4512.9	4508.4	4506.1
15°	4558.3	4560.6	4558.3	4565.1	4576.5	4599.2	4578.8	4574.2	4578.8	4567.4	4567.4
17.5°	4626.4	4631.0	4640.1	4656.0	4671.8	4712.6	4676.4	4665.0	4665.0	4642.3	4642.3
20°	4710.4	4717.3	4730.9	4758.0	4778.5	4817.1	4780.8	4764.9	4758.0	4728.5	4728.5
22.5°	4798.9	4810.3	4830.7	4867.0	4903.4	4939.7	4903.4	4876.1	4855.7	4817.1	4814.8
25°	4901.1	4914.7	4946.5	5005.5	5055.5	5107.7	5064.5	5010.1	4969.2	4914.7	4912.4
27.5°	5046.4	5062.3	5100.9	5173.5	5237.0	5282.4	5241.6	5171.2	5114.4	5048.6	5046.4
30°	5250.7	5266.6	5312.0	5389.1	5432.3	5461.8	5434.5	5380.1	5312.0	5237.0	5237.0
32.5°	5514.0	5534.5	5584.4	5657.1	5666.1	5670.6	5661.6	5634.3	5584.4	5493.6	5495.8
35°	5847.7	5870.4	5927.2	5986.2	5977.1	5986.2	5972.6	5963.4	5927.2	5822.7	5822.7
37.5°	6256.3	6283.6	6342.6	6388.0	6365.2	6354.0	6356.2	6358.5	6338.1	6222.3	6222.3
40°	6730.8	6767.0	6810.2	6857.9	6819.3	6785.3	6807.9	6826.1	6807.9	6689.9	6689.9
42.5°	7218.9	7271.0	7316.4	7384.5	7352.7	7309.7	7341.5	7361.9	7323.3	7196.1	7205.2
45°	7761.4	7811.3	7870.4	7972.6	7949.8	7904.4	7949.8	7954.3	7888.5	7738.6	7754.5
47.5°	8322.1	8374.4	8462.8	8599.0	8590.0	8540.0	8599.0	8567.3	8483.3	8303.9	8292.6
50°	8853.3	8925.9	9062.1	9252.9	9271.0	9209.7	9289.2	9227.9	9087.1	8862.4	8857.8
52.5°	9352.7	9429.9	9645.6	9904.4	9970.2	9890.7	9997.4	9890.7	9679.6	9391.4	9364.1
55°	9877.1	9963.4	10219.9	10558.1	10689.8	10630.8	10730.6	10569.5	10269.8	9920.3	9872.6
57.5°	10494.6	10546.7	10853.2	11255.0	11477.5	11491.2	11536.6	11264.1	10900.9	10503.7	10449.2
60°	11164.2	11236.9	11570.6	12051.8	12403.7	12517.2	12469.5	12065.5	11643.2	11187.0	11114.3
62.5°	12022.3	12101.8	12501.3	13077.9	13634.0	13915.6	13729.5	13143.8	12621.6	12074.5	11979.2
65°	12732.9	12821.4	13543.3	14571.6	15584.1	16149.3	15681.7	14603.4	13663.6	12891.7	12764.6
67.5°	12217.6	12326.5	13459.3	15347.9	17865.5	19552.2	17951.7	15579.5	13738.5	12692.0	12535.3
70°	10678.4	10780.6	12101.8	14410.5	18507.9	22203.7	18893.8	14834.9	12144.9	10973.5	10816.9
72.5°	7089.4	7418.6	8755.7	11525.2	16526.2	20546.4	16689.6	11291.4	8122.3	7073.5	6844.2
75°	2351.8	2615.1	3527.7	5974.8	11068.9	15366.2	10537.7	5287.1	2794.5	2011.3	1902.3
77.5°	592.4	683.3	942.1	1709.4	4415.3	8748.9	3975.0	1396.0	760.4	531.2	474.5
80°	288.3	317.9	454.0	569.8	1105.6	2780.8	1037.4	535.8	358.6	277.0	254.2
82.5°	158.9	161.1	256.6	322.4	410.9	719.7	426.8	313.2	206.5	168.0	168.0
85°	97.6	95.3	136.2	172.5	172.5	256.6	204.3	172.5	118.1	104.4	109.0
87.5°	38.6	38.6	49.9	54.5	47.7	65.8	52.2	56.8	45.4	43.2	45.4
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)