

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: P970813

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45244.5 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

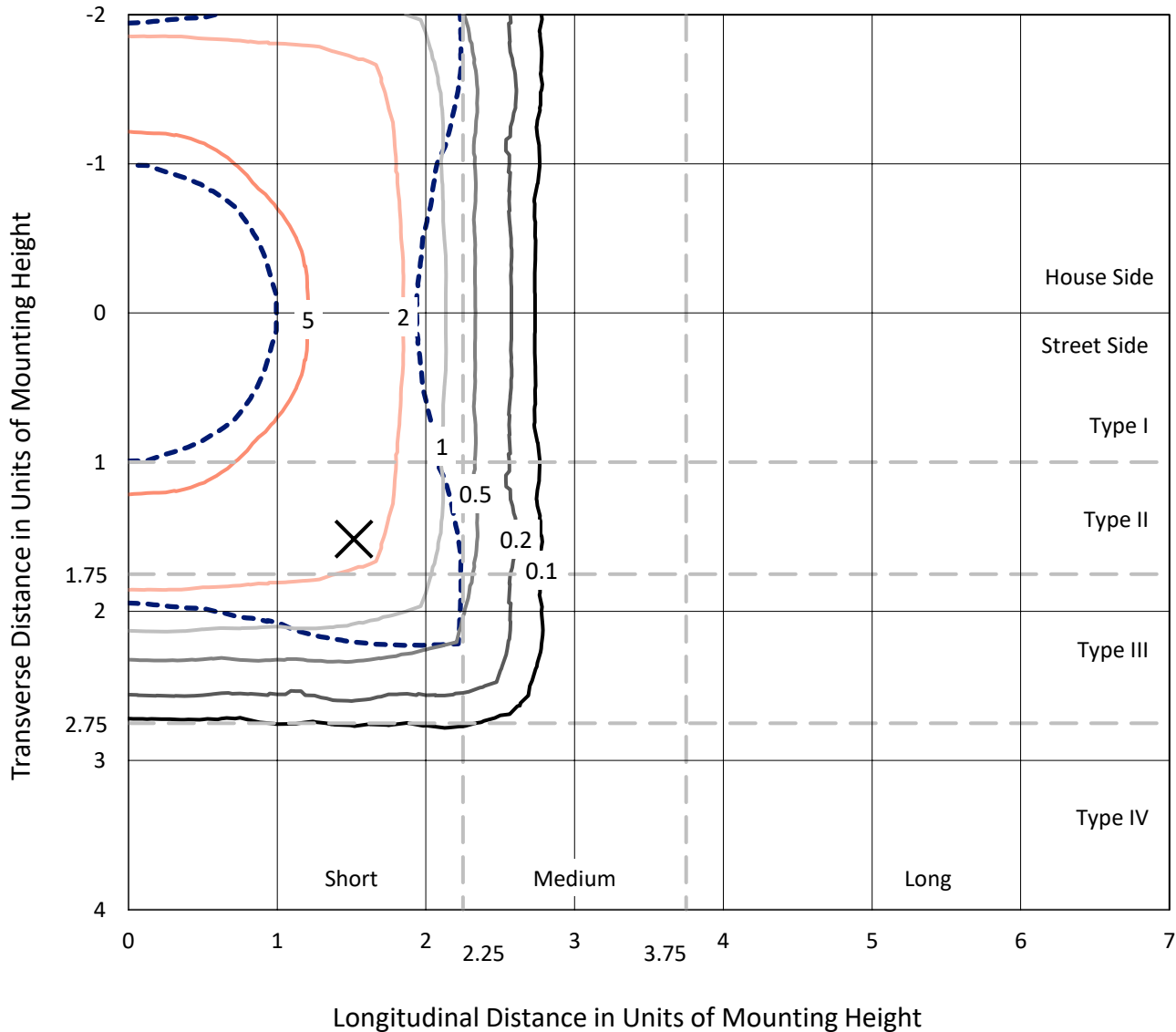
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

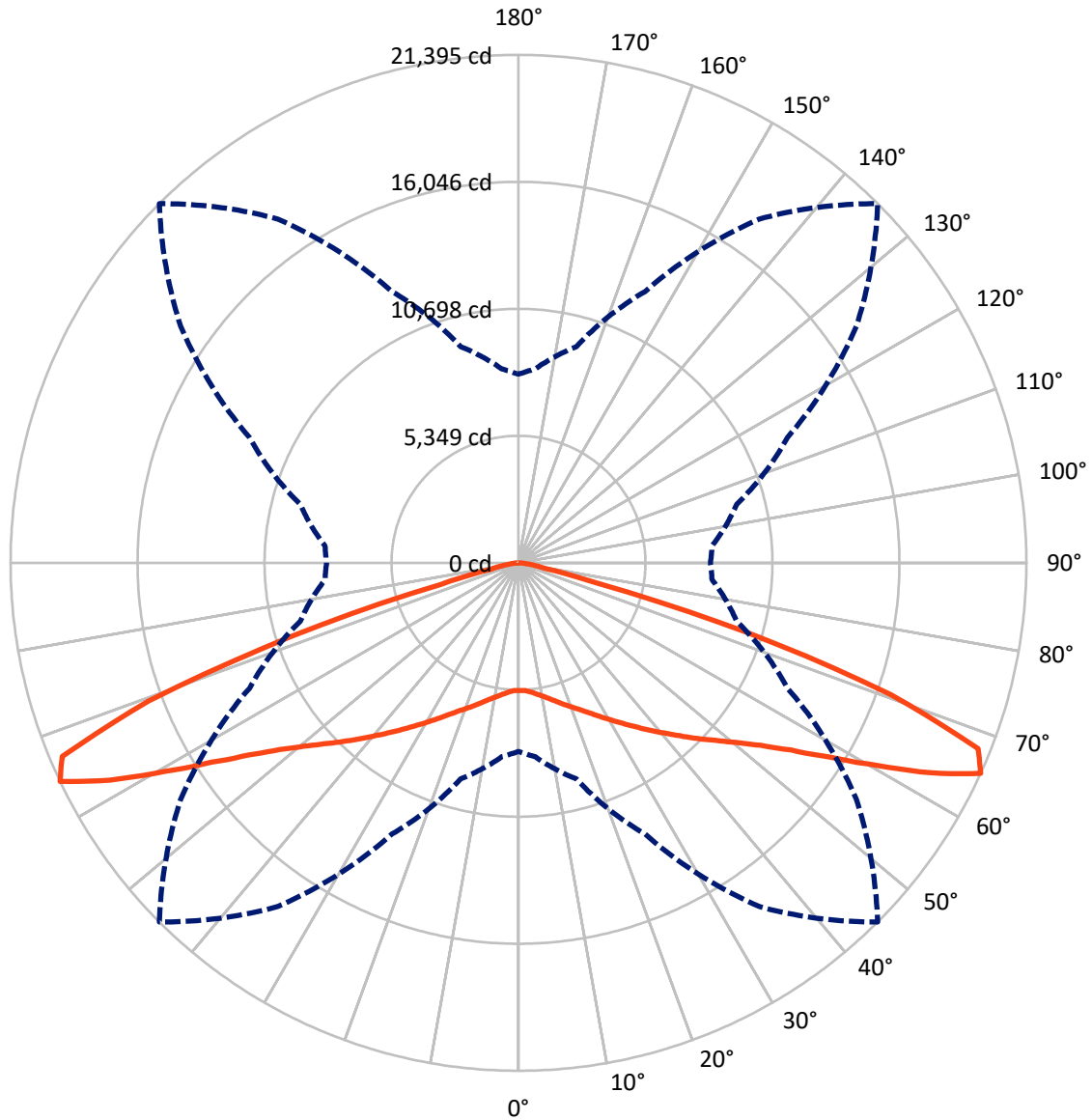
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22622.3	0.0	22622.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22622.3	0.0	22622.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	45244.5	0.0	45244.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.4	1.2
10°-20°	1734.0	3.8
20°-30°	3274.0	7.2
30°-40°	5361.1	11.8
40°-50°	8312.4	18.4
50°-60°	12279.1	27.1
60°-70°	11688.6	25.8
70°-80°	1886.1	4.2
80°-90°	177.8	0.4
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°	45244.5	100.0
0°-180°	45244.5	100.0

Coefficient of Utilization



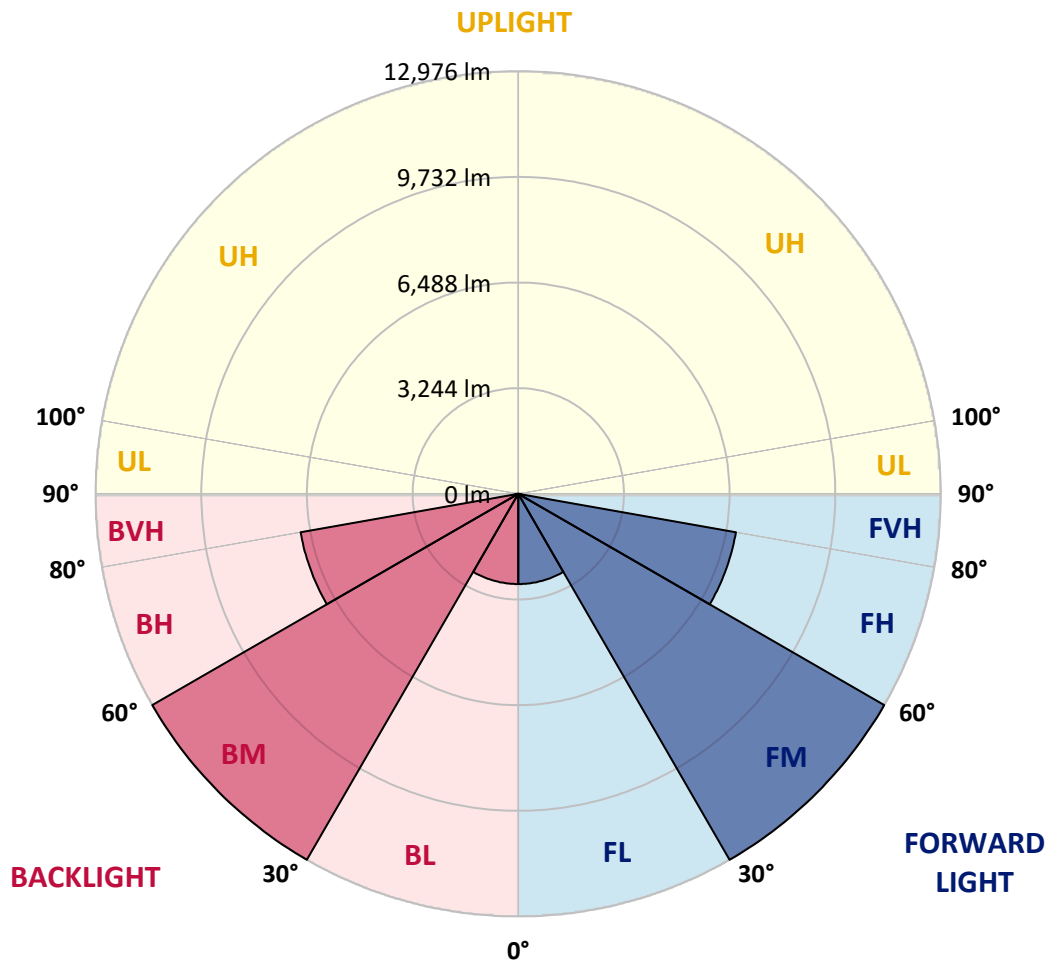
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.7	6.1			
FM (30°-60°)	12976.3	28.7			
FH (60°-80°)	6787.4	15.0			G3/7500
FVH (80°-90°)	88.9	0.2			G1/100
BL (0°-30°)	2769.7	6.1	B4/5000		
BM (30°-60°)	12976.3	28.7	B5		
BH (60°-80°)	6787.4	15.0	B5		G3/7500
BVH (80°-90°)	88.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5384.5	5384.5	5384.5	5384.5	5384.5	5384.5	5384.5	5384.5	5384.5	5384.5	5384.5
2.5°	5420.9	5402.7	5416.3	5405.0	5395.9	5386.8	5391.4	5407.3	5414.0	5416.3	5416.3
5°	5493.5	5477.6	5484.5	5484.5	5468.6	5464.0	5466.2	5477.6	5491.2	5491.2	5491.2
7.5°	5611.6	5595.7	5611.6	5602.4	5588.8	5584.3	5582.0	5591.2	5611.6	5611.6	5604.7
10°	5754.6	5736.4	5745.5	5740.9	5725.0	5718.3	5716.0	5729.6	5747.8	5745.5	5740.9
12.5°	5911.2	5890.8	5902.2	5888.5	5884.0	5877.1	5877.1	5874.9	5886.3	5877.1	5881.7
15°	6086.0	6072.4	6076.9	6067.8	6074.7	6070.2	6051.9	6042.9	6047.4	6033.8	6036.0
17.5°	6292.6	6260.8	6276.7	6272.2	6272.2	6281.2	6251.7	6240.4	6249.4	6235.8	6247.2
20°	6530.9	6499.1	6506.0	6496.9	6485.5	6494.6	6458.3	6467.3	6474.2	6465.1	6485.5
22.5°	6792.0	6751.2	6748.8	6753.4	6728.4	6730.7	6705.8	6728.4	6742.0	6717.0	6742.0
25°	7059.9	7016.7	7046.3	7034.9	7003.1	7009.9	6991.7	7014.5	7025.8	6994.0	7030.4
27.5°	7343.6	7314.1	7341.4	7348.1	7309.6	7336.7	7309.6	7330.0	7341.4	7293.7	7330.0
30°	7675.0	7645.5	7670.5	7688.6	7643.2	7686.4	7663.7	7677.2	7679.6	7622.8	7656.9
32.5°	8036.0	7990.6	8054.1	8063.2	8013.2	8065.5	8036.0	8054.1	8065.5	7988.3	8040.5
35°	8476.3	8419.6	8492.2	8480.8	8437.8	8480.8	8453.7	8480.8	8508.1	8415.0	8471.8
37.5°	8950.8	8891.8	8969.0	8948.6	8907.7	8937.2	8921.3	8939.4	8982.6	8882.6	8943.9
40°	9472.9	9400.3	9504.7	9468.3	9429.8	9425.3	9434.3	9445.7	9502.4	9391.2	9427.5
42.5°	10031.4	9954.2	10110.8	10054.0	9999.6	9963.2	9992.7	10015.5	10069.9	9945.1	10010.9
45°	10669.2	10580.7	10784.9	10716.9	10630.6	10555.8	10603.4	10637.4	10716.9	10567.0	10644.2
47.5°	11372.9	11273.1	11491.0	11470.6	11329.8	11166.3	11275.3	11372.9	11431.9	11250.4	11311.6
50°	12060.8	11983.6	12269.6	12294.6	12122.1	11892.8	12044.9	12192.4	12208.3	11969.9	11999.5
52.5°	12705.5	12628.3	13043.7	13200.4	13046.0	12773.6	12934.7	13084.5	12964.2	12655.5	12664.6
55°	13220.8	13157.2	13686.1	14090.2	14142.4	13917.7	14013.0	14008.5	13613.4	13139.1	13155.0
57.5°	13345.6	13336.5	14004.0	14859.7	15404.5	15431.8	15243.4	14762.2	13910.9	13272.9	13232.1
60°	12778.1	12834.8	13751.9	15261.5	16714.4	17318.2	16503.2	15129.8	13572.6	12687.2	12582.9
62.5°	11080.1	11229.9	12335.5	14771.2	17772.2	19488.3	17513.5	14571.4	12183.4	11027.9	10959.8
65°	7940.6	8201.6	9422.9	12605.6	17676.8	21395.2	17368.1	12503.5	9513.7	8181.2	8083.7
67.5°	3602.6	3868.1	4905.5	8630.7	15366.0	20877.6	15329.6	8721.5	5150.7	3881.8	3825.0
70°	1305.2	1350.6	1684.4	3455.0	9820.2	16634.9	10240.2	3480.0	1791.1	1439.2	1421.1
72.5°	790.0	796.8	867.2	1237.2	3411.9	10099.4	3557.2	1278.1	885.3	785.5	799.1
75°	501.6	497.1	617.5	755.9	1209.9	3407.3	1268.9	755.9	615.2	560.7	565.3
77.5°	360.9	372.3	442.7	565.3	762.7	1155.5	749.1	540.3	442.7	363.2	370.0
80°	270.1	277.0	322.4	440.3	535.8	719.7	476.7	399.5	333.7	227.0	233.8
82.5°	195.3	195.3	211.2	320.1	326.9	388.2	258.8	281.5	220.2	161.1	161.1
85°	115.7	113.5	131.7	190.6	170.3	143.0	118.1	172.5	138.5	99.8	97.6
87.5°	40.9	43.2	40.9	54.5	45.4	38.5	36.3	47.7	38.5	34.0	31.8
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)