

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: P968802

Luminaire Tested: **NAV-SB5C-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42245.4 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

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

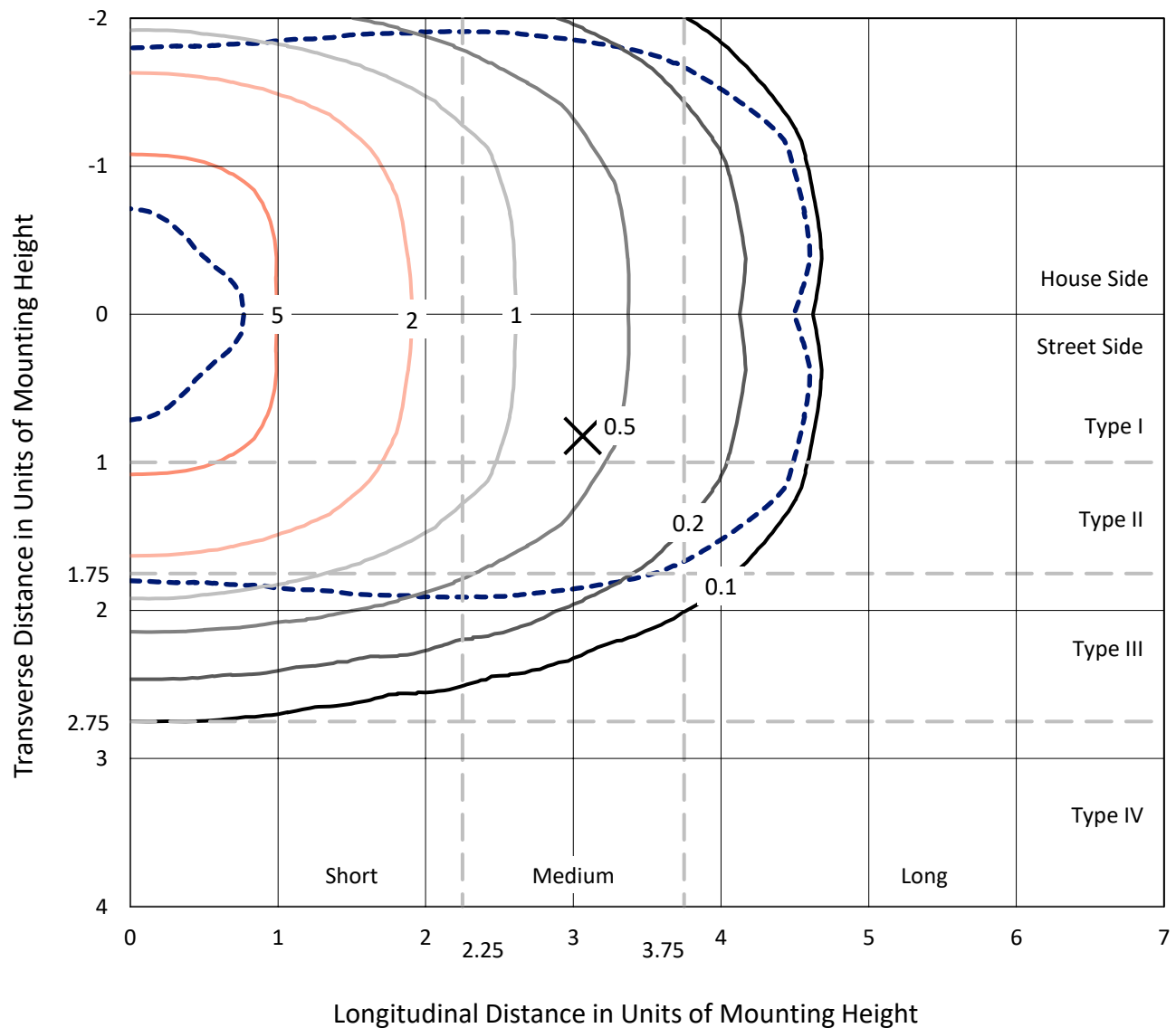


REPORT NUMBER: P968802

CATALOG NUMBER: NAV-SB5C-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

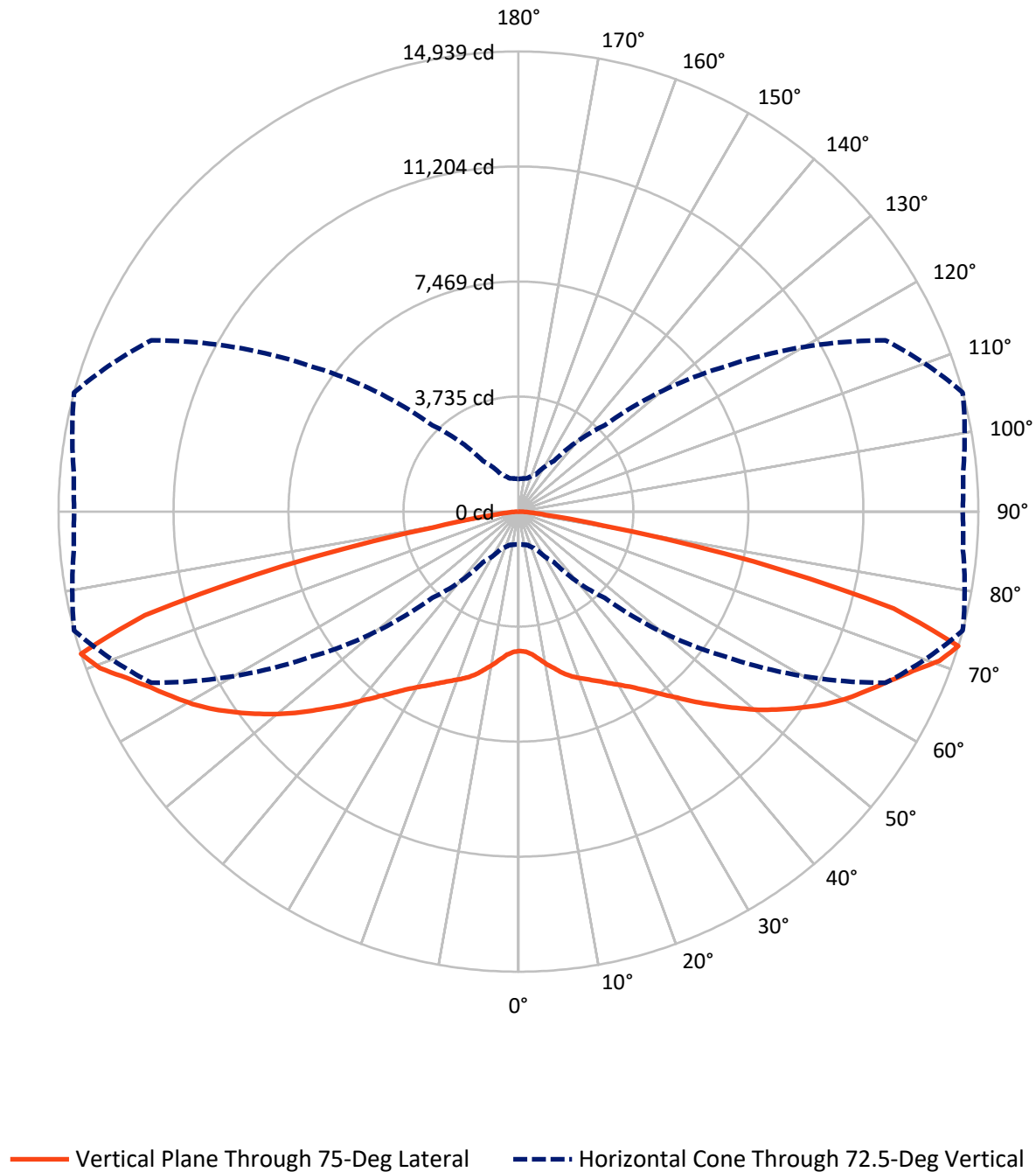
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Medium - N/A

REPORT NUMBER: P968802
CATALOG NUMBER: NAV-SB5C-740-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21122.7	0.0	21122.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21122.7	0.0	21122.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	42245.4	0.0	42245.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.3	1.0
10°-20°	1462.1	3.5
20°-30°	2825.1	6.7
30°-40°	4770.3	11.3
40°-50°	7565.3	17.9
50°-60°	10129.0	24.0
60°-70°	9639.5	22.8
70°-80°	5030.1	11.9
80°-90°	380.8	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°	42245.4	100.0
0°-180°	42245.4	100.0

Coefficient of Utilization



REPORT NUMBER: P968802

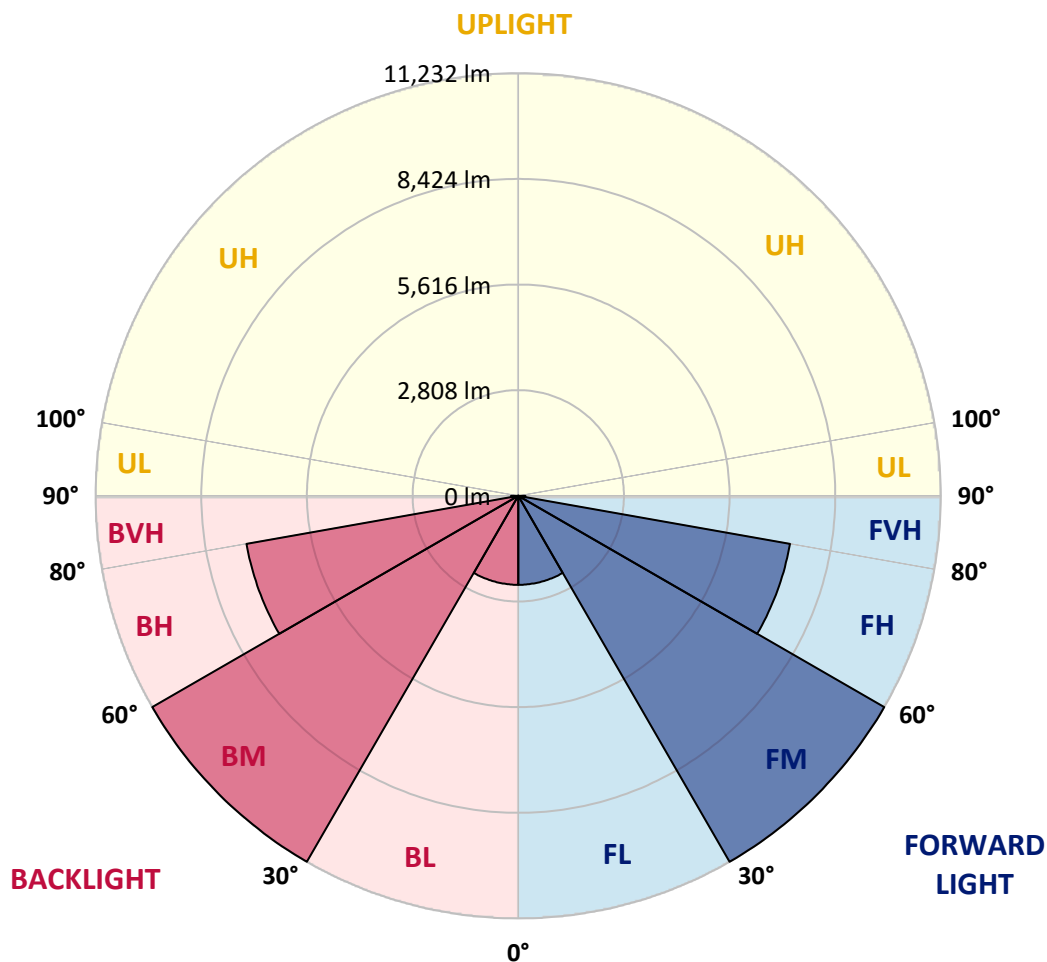
CATALOG NUMBER: NAV-SB5C-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2365.2	5.6			
FM	(30°-60°)	11232.3	26.6			
FH	(60°-80°)	7334.8	17.4			G3/7500
FVH	(80°-90°)	190.4	0.5			G2/225
BL	(0°-30°)	2365.2	5.6	B3/2500		
BM	(30°-60°)	11232.3	26.6	B5		
BH	(60°-80°)	7334.8	17.4	B5		G5
BVH	(80°-90°)	190.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



REPORT NUMBER: P968802

CATALOG NUMBER: NAV-SB5C-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4525.3	4525.3	4525.3	4525.3	4525.3	4525.3	4525.3	4525.3	4525.3	4525.3	4525.3
2.5°	4525.3	4521.0	4525.3	4529.6	4527.4	4527.4	4538.2	4544.6	4557.6	4555.4	4553.3
5°	4495.0	4492.9	4510.1	4529.6	4544.6	4570.6	4602.9	4626.6	4656.8	4663.2	4663.2
7.5°	4480.0	4473.5	4503.6	4538.2	4585.6	4650.3	4712.8	4777.6	4829.4	4846.6	4850.9
10°	4490.7	4492.9	4533.9	4598.6	4674.1	4764.6	4853.1	4963.0	5036.4	5053.7	5071.0
12.5°	4540.3	4536.0	4605.0	4708.5	4812.1	4926.5	5030.0	5150.7	5230.6	5271.6	5288.8
15°	4631.0	4622.3	4719.4	4872.5	5023.5	5157.2	5241.3	5355.6	5448.4	5500.2	5519.6
17.5°	4738.8	4743.1	4870.4	5068.8	5267.3	5418.3	5498.0	5556.2	5627.5	5672.8	5694.3
20°	4928.6	4937.2	5079.6	5314.6	5541.2	5713.7	5778.4	5756.8	5776.3	5810.7	5836.7
22.5°	5183.1	5187.4	5347.0	5601.5	5838.8	6028.6	6071.8	5983.3	5929.4	5953.1	5970.4
25°	5478.6	5506.6	5666.2	5927.3	6171.0	6352.1	6371.6	6237.8	6104.1	6110.5	6121.4
27.5°	5838.8	5864.6	6026.5	6285.3	6533.3	6690.8	6688.6	6509.6	6313.3	6263.7	6278.8
30°	6229.2	6257.2	6423.4	6690.8	6921.6	7059.6	7029.4	6815.9	6535.5	6442.7	6453.5
32.5°	6692.9	6710.2	6878.5	7145.9	7359.4	7469.5	7406.9	7143.7	6794.3	6688.6	6714.5
35°	7253.7	7279.7	7404.7	7657.1	7844.7	7935.3	7829.7	7519.1	7126.5	7007.8	7025.1
37.5°	7894.3	7877.1	8019.5	8243.8	8399.1	8455.1	8310.6	7941.8	7506.1	7366.0	7391.8
40°	8563.1	8554.3	8709.6	8925.4	9009.4	9044.0	8830.5	8427.1	7944.0	7793.0	7842.6
42.5°	9169.1	9162.7	9371.9	9611.3	9712.7	9673.8	9404.2	8942.6	8450.8	8278.3	8321.5
45°	9654.4	9645.8	9902.4	10238.9	10437.4	10372.7	10010.4	9512.1	8964.2	8785.2	8826.2
47.5°	10027.6	10031.9	10307.9	10724.3	11071.5	11095.2	10629.4	10092.3	9529.3	9326.6	9386.9
50°	10297.2	10310.2	10605.6	11067.2	11541.7	11750.9	11261.4	10687.6	10113.9	9885.2	9954.2
52.5°	10364.1	10387.8	10743.6	11285.0	11843.7	12242.7	11904.0	11259.2	10668.2	10450.3	10506.4
55°	10008.1	10055.6	10506.4	11267.8	12029.2	12566.3	12469.2	11839.4	11226.8	11002.5	11065.1
57.5°	9190.7	9257.5	9783.8	10778.2	11988.2	12788.4	12907.1	12395.8	11785.4	11569.8	11619.4
60°	8045.3	8125.2	8629.9	9714.8	11410.2	12870.4	13215.5	12937.2	12298.8	12089.6	12134.9
62.5°	6317.7	6421.2	7025.1	8297.7	10189.3	12488.6	13478.6	13426.9	12760.4	12499.4	12529.6
65°	4052.8	4162.8	4799.2	6302.5	8560.8	11319.6	13560.6	13903.5	13247.8	12883.3	12928.6
67.5°	2443.8	2493.4	2808.3	3820.0	6257.2	9557.3	12866.1	14432.0	13817.3	13364.4	13398.8
70°	1563.7	1591.8	1779.5	2243.2	3537.4	6973.4	11144.8	14531.2	14507.5	13858.3	13854.0
72.5°	1061.2	1069.8	1119.4	1328.7	2001.6	3962.2	8220.1	13155.2	14938.9	14494.5	14425.5
75°	776.5	824.0	903.7	940.4	1136.7	1980.1	4710.7	9242.4	12590.0	12784.1	12313.9
77.5°	578.1	580.3	690.2	733.4	811.0	1054.7	1993.0	5159.3	7816.8	8207.1	7320.7
80°	489.6	463.7	461.6	591.0	610.4	657.8	890.8	1781.7	2799.7	1697.5	1283.4
82.5°	407.6	379.7	343.0	461.6	416.3	403.3	386.1	724.8	890.8	437.9	373.1
85°	284.7	271.7	258.8	302.0	237.3	202.7	185.5	338.7	375.4	185.5	163.9
87.5°	122.9	127.3	129.5	133.8	99.2	71.1	71.1	94.9	94.9	73.3	53.9
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)