

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: P968766

Luminaire Tested: **NAV-SB5C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968766
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-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40609.5 lumens
Efficiency: N/A
Efficacy: 162.8 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

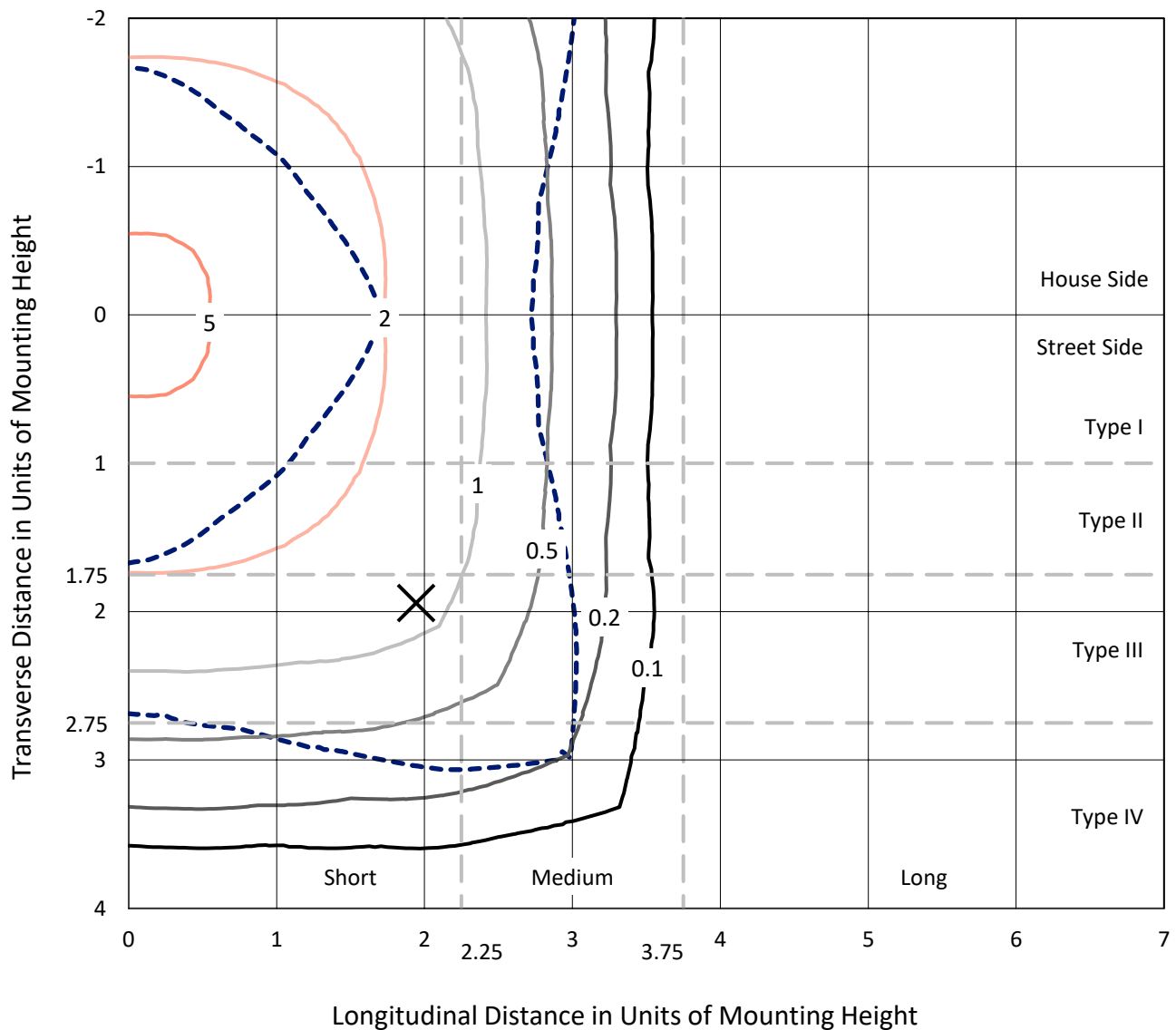


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Iso-Footcandle Lines of Horizontal Illumination

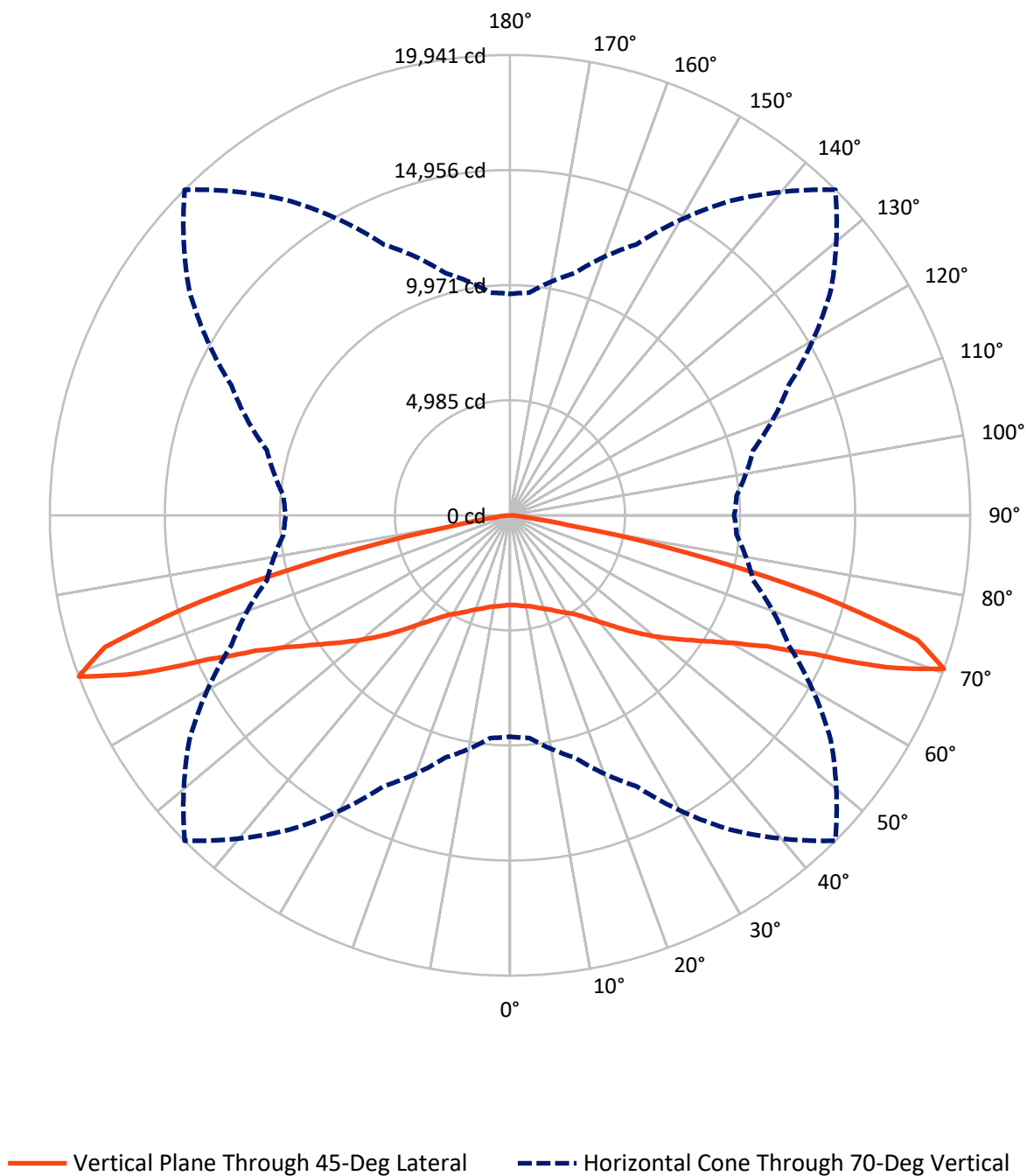
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20304.7	0.0	20304.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20304.7	0.0	20304.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	40609.5	0.0	40609.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	0.9
10°-20°	1171.9	2.9
20°-30°	2094.2	5.2
30°-40°	3394.7	8.4
40°-50°	5529.5	13.6
50°-60°	8430.6	20.8
60°-70°	12542.0	30.9
70°-80°	6835.8	16.8
80°-90°	232.8	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°	40609.5	100.0
0°-180°	40609.5	100.0

Coefficient of Utilization



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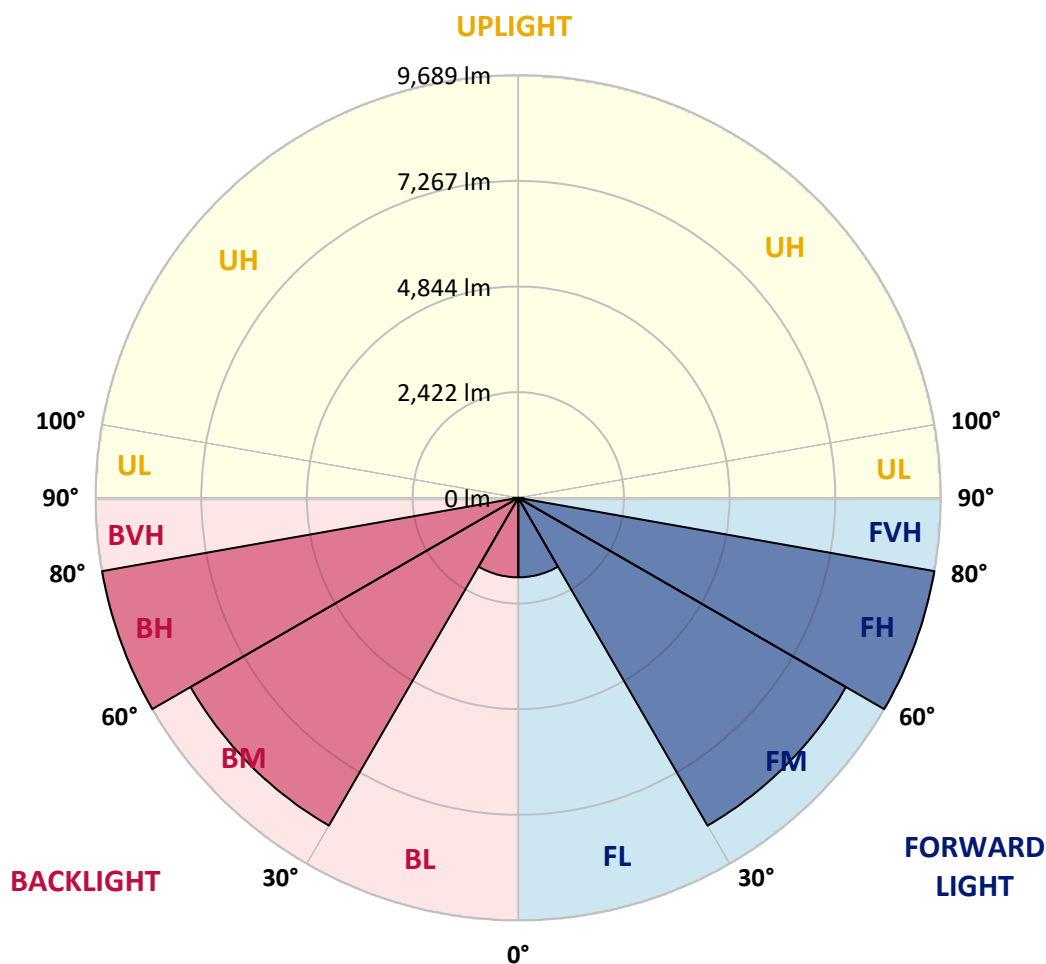
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.0	4.5			
FM	(30°-60°)	8677.4	21.4			
FH	(60°-80°)	9688.9	23.9			G4/12000
FVH	(80°-90°)	116.4	0.3			G2/225
BL	(0°-30°)	1822.0	4.5	B3/2500		
BM	(30°-60°)	8677.4	21.4	B5		
BH	(60°-80°)	9688.9	23.9	B5		G4/12000
BVH	(80°-90°)	116.4	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°	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0
2.5°	3908.3	3912.4	3904.2	3900.1	3896.1	3890.0	3892.0	3902.2	3910.4	3908.3	3910.4
5°	3940.9	3945.0	3938.9	3936.8	3928.7	3926.7	3926.7	3936.8	3943.0	3938.9	3940.9
7.5°	3977.6	3983.8	3973.5	3971.6	3967.5	3963.4	3961.3	3971.6	3977.6	3977.6	3977.6
10°	4012.3	4018.4	4010.2	4004.2	4000.1	4000.1	3996.0	4004.2	4014.3	4012.3	4012.3
12.5°	4049.0	4053.1	4045.0	4040.9	4040.9	4046.9	4040.9	4045.0	4053.1	4049.0	4046.9
15°	4093.8	4095.9	4093.8	4100.0	4110.1	4130.5	4112.2	4108.1	4112.2	4102.0	4102.0
17.5°	4155.0	4159.0	4167.2	4181.5	4195.7	4232.4	4199.8	4189.7	4189.7	4169.3	4169.3
20°	4230.5	4236.5	4248.8	4273.2	4291.6	4326.2	4293.6	4279.4	4273.2	4246.8	4246.8
22.5°	4309.9	4320.2	4338.5	4371.1	4403.7	4436.4	4403.7	4379.3	4361.0	4326.2	4324.3
25°	4401.7	4414.0	4442.5	4495.4	4540.3	4587.2	4548.5	4499.5	4462.8	4414.0	4411.9
27.5°	4532.1	4546.5	4581.1	4646.3	4703.4	4744.2	4707.5	4644.3	4593.3	4534.2	4532.1
30°	4715.7	4730.0	4770.8	4840.0	4878.8	4905.2	4880.8	4831.8	4770.8	4703.4	4703.4
32.5°	4952.2	4970.5	5015.3	5080.6	5088.7	5092.8	5084.7	5060.2	5015.3	4933.8	4935.9
35°	5251.9	5272.3	5323.2	5376.2	5368.0	5376.2	5364.0	5355.8	5323.2	5229.4	5229.4
37.5°	5618.8	5643.3	5696.3	5737.1	5716.7	5706.5	5708.5	5710.6	5692.2	5588.3	5588.3
40°	6044.9	6077.5	6116.3	6159.1	6124.5	6093.8	6114.2	6130.5	6114.2	6008.2	6008.2
42.5°	6483.3	6530.2	6571.0	6632.2	6603.6	6564.8	6593.4	6611.8	6577.0	6462.9	6471.0
45°	6970.5	7015.4	7068.4	7160.1	7139.7	7098.9	7139.7	7143.8	7084.7	6950.1	6964.5
47.5°	7474.1	7521.0	7600.5	7722.9	7714.7	7669.9	7722.9	7694.3	7618.8	7457.8	7447.6
50°	7951.2	8016.4	8138.8	8310.0	8326.3	8271.2	8342.7	8287.6	8161.2	7959.3	7955.2
52.5°	8399.7	8469.1	8662.7	8895.2	8954.3	8883.0	8978.7	8883.0	8693.3	8434.4	8409.9
55°	8870.7	8948.1	9178.6	9482.3	9600.6	9547.6	9637.3	9492.5	9223.4	8909.4	8866.6
57.5°	9425.2	9472.1	9747.3	10108.2	10308.0	10320.2	10361.0	10116.3	9790.2	9433.4	9384.5
60°	10026.7	10091.9	10391.6	10823.8	11139.8	11241.8	11198.9	10836.1	10456.8	10047.0	9981.8
62.5°	10797.3	10868.7	11227.4	11745.4	12244.9	12497.6	12330.4	11804.4	11335.6	10844.2	10758.6
65°	11435.4	11515.0	12163.3	13086.9	13996.2	14503.7	14083.8	13115.4	12271.3	11578.2	11464.0
67.5°	10972.6	11070.5	12087.8	13784.1	16045.1	17559.9	16122.5	13992.1	12338.6	11398.7	11258.1
70°	9590.3	9682.2	10868.7	12942.1	16622.1	19941.2	16968.7	13323.4	10907.4	9855.4	9714.7
72.5°	6367.1	6662.7	7863.5	10350.9	14842.2	18452.9	14989.0	10140.8	7294.7	6352.8	6146.9
75°	2112.1	2348.7	3168.3	5366.1	9941.1	13800.4	9463.9	4748.3	2509.7	1806.4	1708.5
77.5°	532.1	613.7	846.1	1535.1	3965.4	7857.4	3569.9	1253.9	683.0	477.0	426.1
80°	258.9	285.5	407.7	511.7	992.9	2497.5	931.7	481.1	322.2	248.8	228.4
82.5°	142.7	144.7	230.4	289.5	369.0	646.3	383.2	281.4	185.5	150.9	150.9
85°	87.6	85.6	122.3	155.0	155.0	230.4	183.5	155.0	106.0	93.8	97.9
87.5°	34.6	34.6	44.9	48.9	42.8	59.1	46.8	50.9	40.8	38.7	40.8
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)