

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: P968768

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39222.7 lumens
Efficiency: N/A
Efficacy: 157.2 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



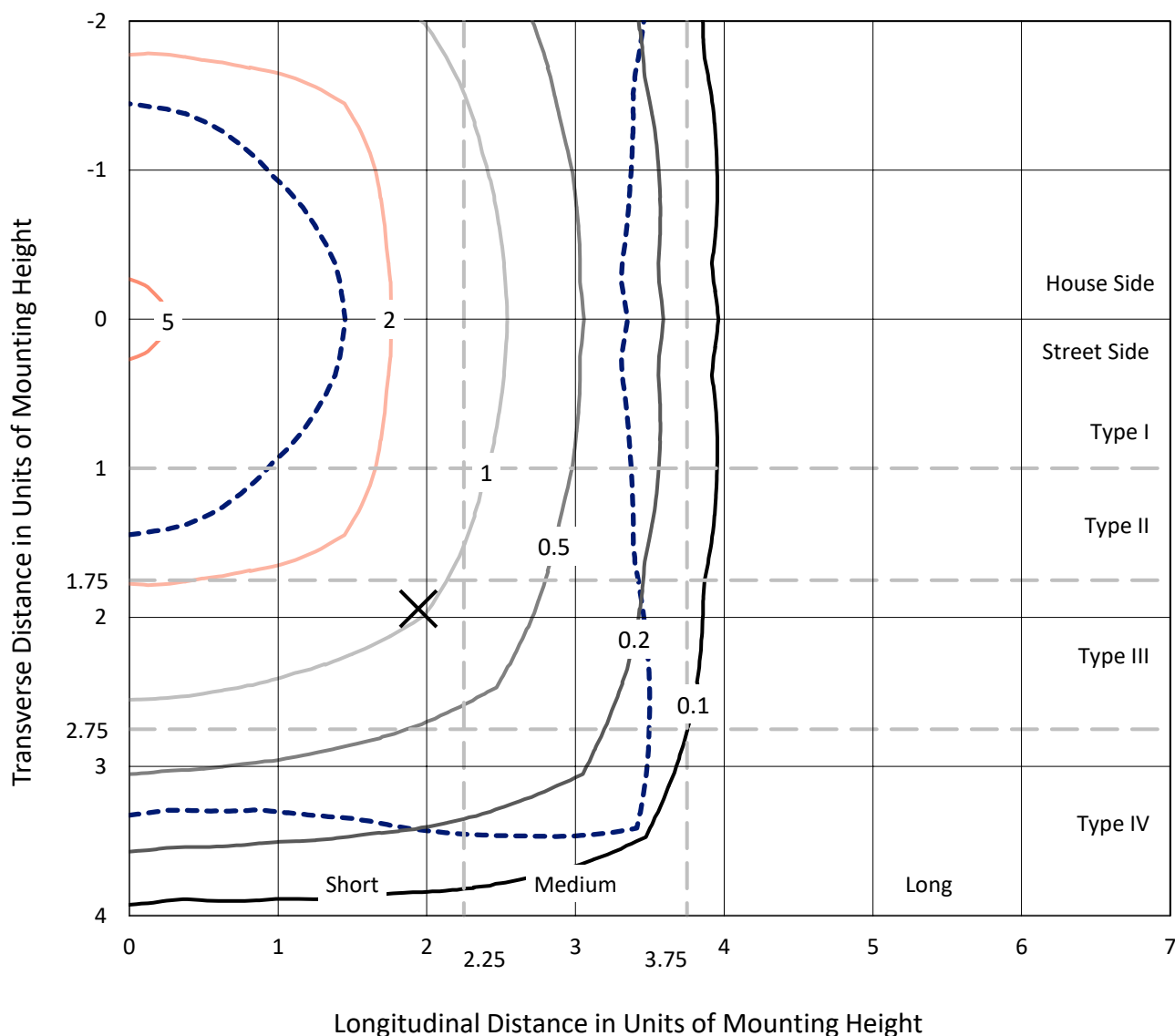
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

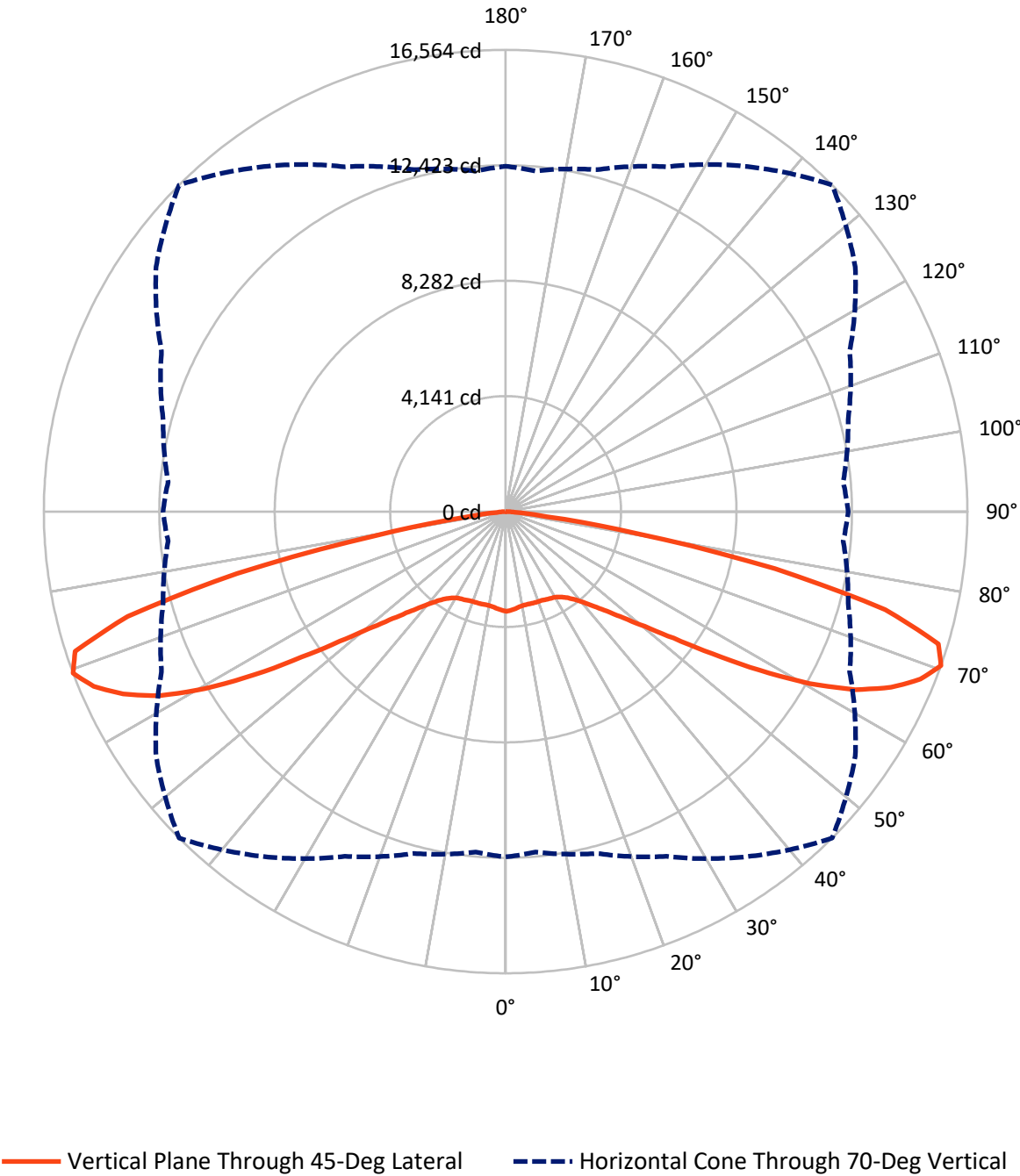


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc

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	19611.3	0.0	19611.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19611.3	0.0	19611.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	39222.7	0.0	39222.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	0.8
10°-20°	977.3	2.5
20°-30°	1626.3	4.1
30°-40°	2459.5	6.3
40°-50°	4087.1	10.4
50°-60°	7712.2	19.7
60°-70°	13022.3	33.2
70°-80°	8557.0	21.8
80°-90°	448.3	1.1
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°	39222.7	100.0
0°-180°	39222.7	100.0

Coefficient of Utilization



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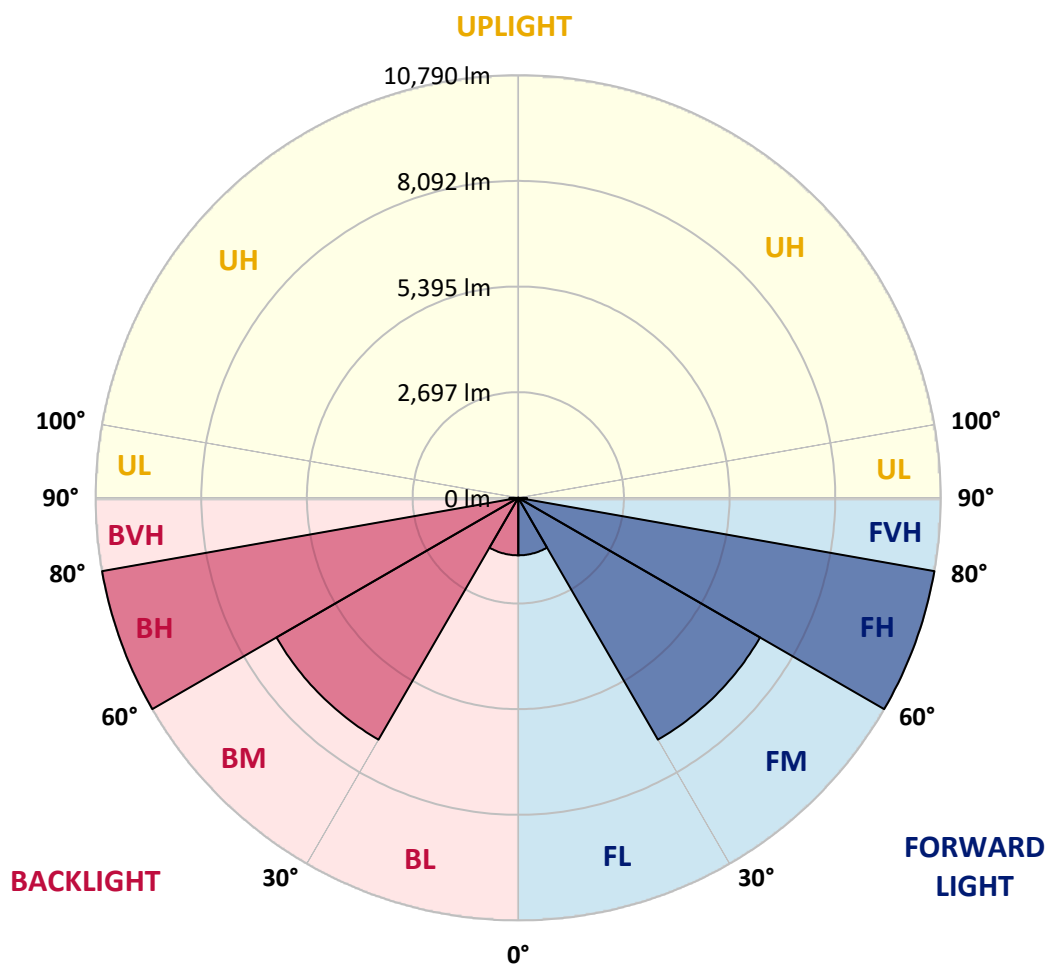
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.2	3.7			
FM	(30°-60°)	7129.4	18.2			
FH	(60°-80°)	10789.6	27.5			G4/12000
FVH	(80°-90°)	224.2	0.6			G2/225
BL	(0°-30°)	1468.2	3.7	B3/2500		
BM	(30°-60°)	7129.4	18.2	B4/8500		
BH	(60°-80°)	10789.6	27.5	B5		G4/12000
BVH	(80°-90°)	224.2	0.6			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°	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9
2.5°	3555.5	3565.7	3561.6	3553.5	3553.5	3547.3	3553.5	3557.5	3563.6	3567.7	3565.7
5°	3508.6	3516.8	3514.7	3508.6	3510.6	3504.5	3508.6	3514.7	3518.7	3520.8	3520.8
7.5°	3467.8	3476.0	3471.9	3461.7	3461.7	3455.6	3457.6	3463.7	3469.8	3471.9	3471.9
10°	3457.6	3465.7	3453.5	3437.2	3431.1	3423.0	3425.0	3431.1	3443.4	3449.4	3449.4
12.5°	3461.7	3467.8	3455.6	3431.1	3425.0	3416.8	3416.8	3423.0	3439.3	3447.4	3449.4
15°	3473.9	3480.1	3461.7	3435.2	3429.0	3423.0	3420.9	3429.0	3447.4	3461.7	3463.7
17.5°	3496.4	3502.4	3473.9	3437.2	3429.0	3431.1	3429.0	3435.2	3463.7	3490.2	3490.2
20°	3516.8	3520.8	3482.0	3437.2	3429.0	3431.1	3429.0	3441.3	3478.0	3514.7	3516.8
22.5°	3522.8	3526.9	3490.2	3451.5	3445.3	3447.4	3445.3	3457.6	3492.3	3529.0	3529.0
25°	3524.9	3531.0	3502.4	3471.9	3482.0	3486.1	3482.0	3484.1	3510.6	3543.2	3541.2
27.5°	3555.5	3563.6	3537.2	3510.6	3516.8	3514.7	3520.8	3526.9	3547.3	3579.9	3571.8
30°	3618.7	3624.8	3602.4	3575.8	3571.8	3557.5	3575.8	3596.2	3618.7	3647.3	3641.1
32.5°	3722.6	3734.9	3706.3	3677.8	3659.5	3651.3	3665.6	3700.2	3730.8	3761.3	3749.1
35°	3895.9	3904.1	3877.6	3824.6	3792.0	3792.0	3804.2	3849.1	3898.0	3936.7	3922.5
37.5°	4140.6	4150.7	4103.9	4040.7	3991.8	3991.8	4008.1	4054.9	4128.3	4183.4	4163.0
40°	4438.2	4452.5	4393.4	4328.2	4281.2	4273.1	4293.5	4346.5	4415.8	4485.1	4462.6
42.5°	4797.0	4813.3	4735.9	4678.8	4642.1	4642.1	4652.3	4701.2	4764.4	4850.0	4843.9
45°	5255.7	5284.3	5178.3	5121.2	5086.6	5094.7	5100.8	5143.7	5200.6	5298.5	5294.4
47.5°	5802.1	5830.6	5718.5	5659.4	5653.3	5692.0	5667.5	5698.2	5728.7	5840.9	5808.3
50°	6421.8	6470.8	6393.3	6389.2	6401.4	6472.9	6415.8	6432.1	6397.4	6468.8	6425.9
52.5°	7180.2	7251.6	7237.3	7261.8	7398.3	7545.2	7414.7	7357.7	7227.2	7249.6	7174.2
55°	8099.7	8207.8	8228.2	8375.0	8684.8	8984.5	8707.3	8476.9	8199.6	8148.6	8069.1
57.5°	9145.6	9231.2	9329.0	9628.7	10207.7	10739.8	10207.7	9698.0	9261.8	9157.8	9084.4
60°	10270.9	10376.9	10470.7	10913.1	11773.5	12521.6	11757.1	10947.7	10370.8	10230.1	10107.8
62.5°	11479.8	11616.4	11681.7	12173.0	13176.1	14068.9	13190.3	12209.7	11569.6	11418.7	11296.3
65°	12639.9	12752.0	12825.4	13349.3	14307.5	15202.5	14372.8	13406.4	12747.9	12550.2	12452.3
67.5°	13180.1	13241.3	13420.6	14013.9	15025.2	16046.5	15196.3	14077.1	13341.2	12994.5	12998.6
70°	12389.1	12264.7	12697.0	13647.0	15110.8	16564.3	15306.4	13618.5	12717.3	12154.7	12289.2
72.5°	9573.7	9359.6	10109.9	11734.7	14132.2	16234.1	14230.1	11826.4	10576.7	9435.0	9718.4
75°	5208.8	4966.2	6001.9	8056.9	11269.9	14071.0	11528.8	8287.2	6682.8	5170.1	5506.5
77.5°	1469.8	1378.1	2214.0	3898.0	6778.6	9879.5	7039.6	3983.6	2625.8	1557.6	1730.8
80°	450.6	436.2	591.2	1174.2	2878.6	4731.8	2766.5	1188.6	752.2	475.0	501.5
82.5°	267.1	244.7	293.6	428.1	733.9	1486.2	713.5	446.5	358.9	240.6	261.0
85°	152.9	142.7	173.3	208.0	246.7	316.0	205.9	212.1	191.7	128.4	134.6
87.5°	63.2	57.1	67.2	65.2	57.1	73.4	55.0	65.2	77.5	50.9	46.8
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)