

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: P968799

Luminaire Tested: **NAV-SB5C-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968799
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-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41496.1 lumens
Efficiency: N/A
Efficacy: 166.3 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): 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



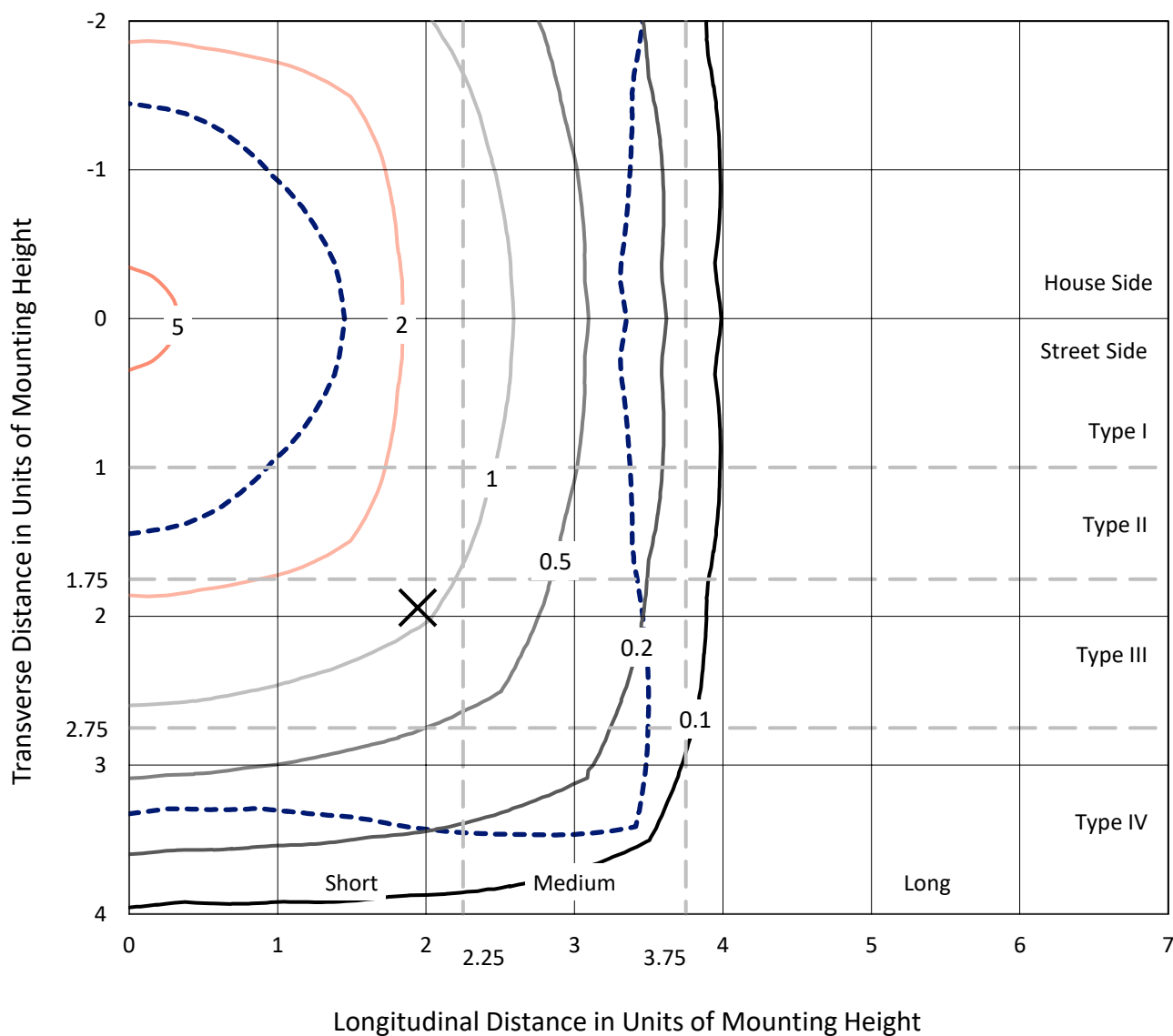
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

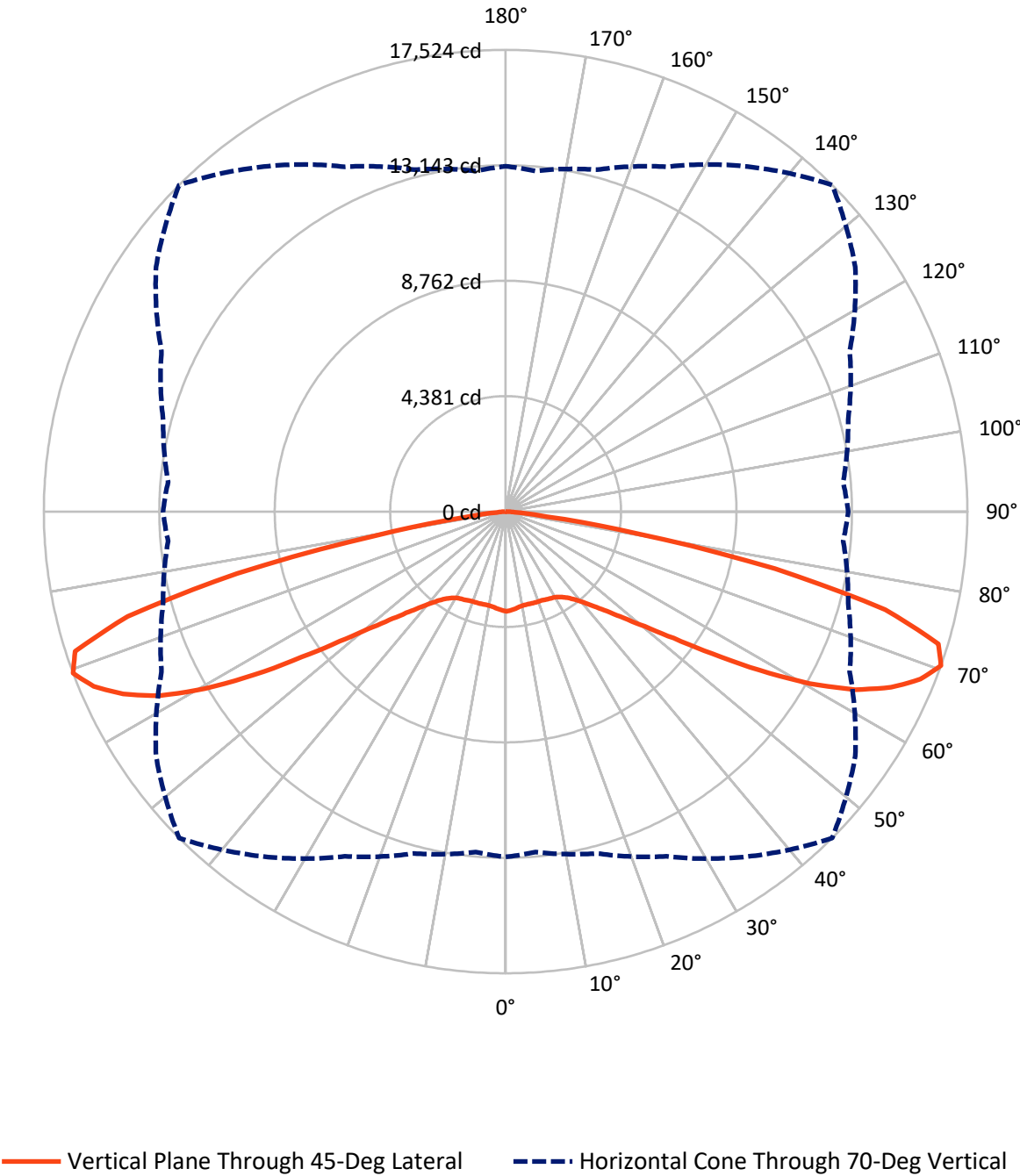


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

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	20748.0	0.0	20748.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20748.0	0.0	20748.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41496.1	0.0	41496.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	0.8
10°-20°	1033.9	2.5
20°-30°	1720.6	4.1
30°-40°	2602.0	6.3
40°-50°	4324.0	10.4
50°-60°	8159.2	19.7
60°-70°	13777.1	33.2
70°-80°	9053.0	21.8
80°-90°	474.3	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°	41496.1	100.0
0°-180°	41496.1	100.0

Coefficient of Utilization



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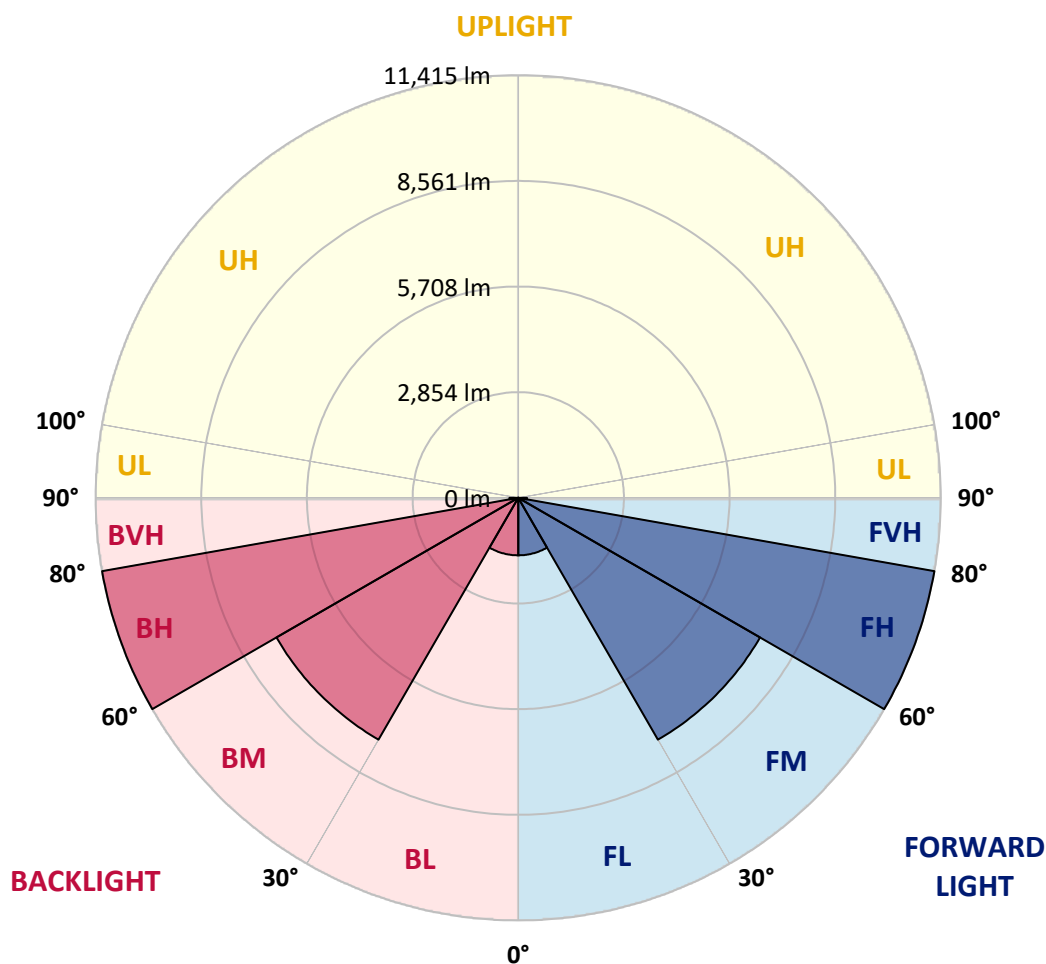
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1553.3	3.7			
FM	(30°-60°)	7542.6	18.2			
FH	(60°-80°)	11415.0	27.5			G4/12000
FVH	(80°-90°)	237.1	0.6			G3/500
BL	(0°-30°)	1553.3	3.7	B3/2500		
BM	(30°-60°)	7542.6	18.2	B4/8500		
BH	(60°-80°)	11415.0	27.5	B5		G4/12000
BVH	(80°-90°)	237.1	0.6			G3/500
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°	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3
2.5°	3761.5	3772.3	3768.0	3759.4	3759.4	3752.9	3759.4	3763.7	3770.2	3774.5	3772.3
5°	3711.9	3720.5	3718.4	3711.9	3714.1	3707.6	3711.9	3718.4	3722.7	3724.8	3724.8
7.5°	3668.8	3677.4	3673.1	3662.3	3662.3	3655.9	3658.0	3664.5	3670.9	3673.1	3673.1
10°	3658.0	3666.6	3653.7	3636.5	3630.0	3621.3	3623.5	3630.0	3643.0	3649.4	3649.4
12.5°	3662.3	3668.8	3655.9	3630.0	3623.5	3614.9	3614.9	3621.3	3638.6	3647.3	3649.4
15°	3675.2	3681.8	3662.3	3634.3	3627.8	3621.3	3619.2	3627.8	3647.3	3662.3	3664.5
17.5°	3699.0	3705.5	3675.2	3636.5	3627.8	3630.0	3627.8	3634.3	3664.5	3692.6	3692.6
20°	3720.5	3724.8	3684.0	3636.5	3627.8	3630.0	3627.8	3640.8	3679.5	3718.4	3720.5
22.5°	3727.0	3731.3	3692.6	3651.6	3645.1	3647.3	3645.1	3658.0	3694.7	3733.6	3733.6
25°	3729.2	3735.7	3705.5	3673.1	3684.0	3688.3	3684.0	3686.1	3714.1	3748.6	3746.5
27.5°	3761.5	3770.2	3742.2	3714.1	3720.5	3718.4	3724.8	3731.3	3752.9	3787.5	3778.8
30°	3828.4	3834.9	3811.2	3783.2	3778.8	3763.7	3783.2	3804.7	3828.4	3858.6	3852.2
32.5°	3938.5	3951.4	3921.1	3891.0	3871.5	3862.9	3878.0	3914.7	3947.1	3979.4	3966.4
35°	4121.7	4130.3	4102.4	4046.3	4011.7	4011.7	4024.7	4072.1	4123.9	4164.9	4149.8
37.5°	4380.5	4391.3	4341.8	4274.9	4223.1	4223.1	4240.4	4290.0	4367.6	4425.8	4404.3
40°	4695.4	4710.6	4648.1	4579.0	4529.4	4520.8	4542.3	4598.5	4671.7	4745.0	4721.4
42.5°	5075.1	5092.3	5010.4	4950.0	4911.2	4911.2	4921.9	4973.7	5040.5	5131.2	5124.7
45°	5560.4	5590.6	5478.4	5418.0	5381.4	5390.0	5396.4	5441.7	5502.1	5605.6	5601.3
47.5°	6138.4	6168.7	6050.0	5987.4	5981.0	6022.0	5996.0	6028.4	6060.7	6179.4	6144.9
50°	6794.1	6845.9	6763.9	6759.6	6772.5	6848.0	6787.7	6804.9	6768.2	6843.7	6798.4
52.5°	7596.5	7671.9	7656.9	7682.7	7827.2	7982.5	7844.5	7784.1	7646.1	7669.8	7590.0
55°	8569.2	8683.5	8705.0	8860.4	9188.2	9505.2	9211.9	8968.2	8674.9	8621.0	8536.8
57.5°	9675.7	9766.2	9869.7	10186.9	10799.4	11362.3	10799.4	10260.1	9798.6	9688.6	9610.9
60°	10866.2	10978.4	11077.6	11545.6	12455.8	13247.4	12438.6	11582.3	10971.9	10823.1	10693.7
62.5°	12145.2	12289.7	12358.7	12878.6	13939.8	14884.4	13954.9	12917.4	12240.1	12080.5	11951.1
65°	13372.5	13491.2	13568.7	14123.1	15136.8	16083.7	15205.9	14183.4	13486.8	13277.6	13174.0
67.5°	13944.1	14008.8	14198.6	14826.2	15896.0	16976.6	16077.2	14893.0	14114.5	13747.8	13752.1
70°	13107.2	12975.7	13432.9	14437.9	15986.6	17524.4	16193.7	14407.8	13454.5	12859.1	13001.5
72.5°	10128.6	9902.1	10695.9	12414.9	14951.3	17175.0	15054.9	12511.9	11189.7	9982.0	10281.8
75°	5510.8	5254.0	6349.8	8523.9	11923.1	14886.6	12197.0	8767.6	7070.1	5469.8	5825.7
77.5°	1555.1	1458.1	2342.3	4123.9	7171.5	10452.1	7447.6	4214.5	2778.1	1647.8	1831.2
80°	476.6	461.6	625.5	1242.3	3045.5	5006.1	2926.9	1257.5	795.9	502.6	530.5
82.5°	282.6	258.8	310.6	452.9	776.4	1572.4	754.9	472.3	379.6	254.5	276.0
85°	161.7	151.0	183.4	220.0	261.0	334.4	217.8	224.3	202.7	135.9	142.4
87.5°	66.8	60.4	71.1	69.0	60.4	77.7	58.2	69.0	82.0	53.9	49.6
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)