

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: P966659

Luminaire Tested: **NAV-SB4C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966659
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-SB4C-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32238.3 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

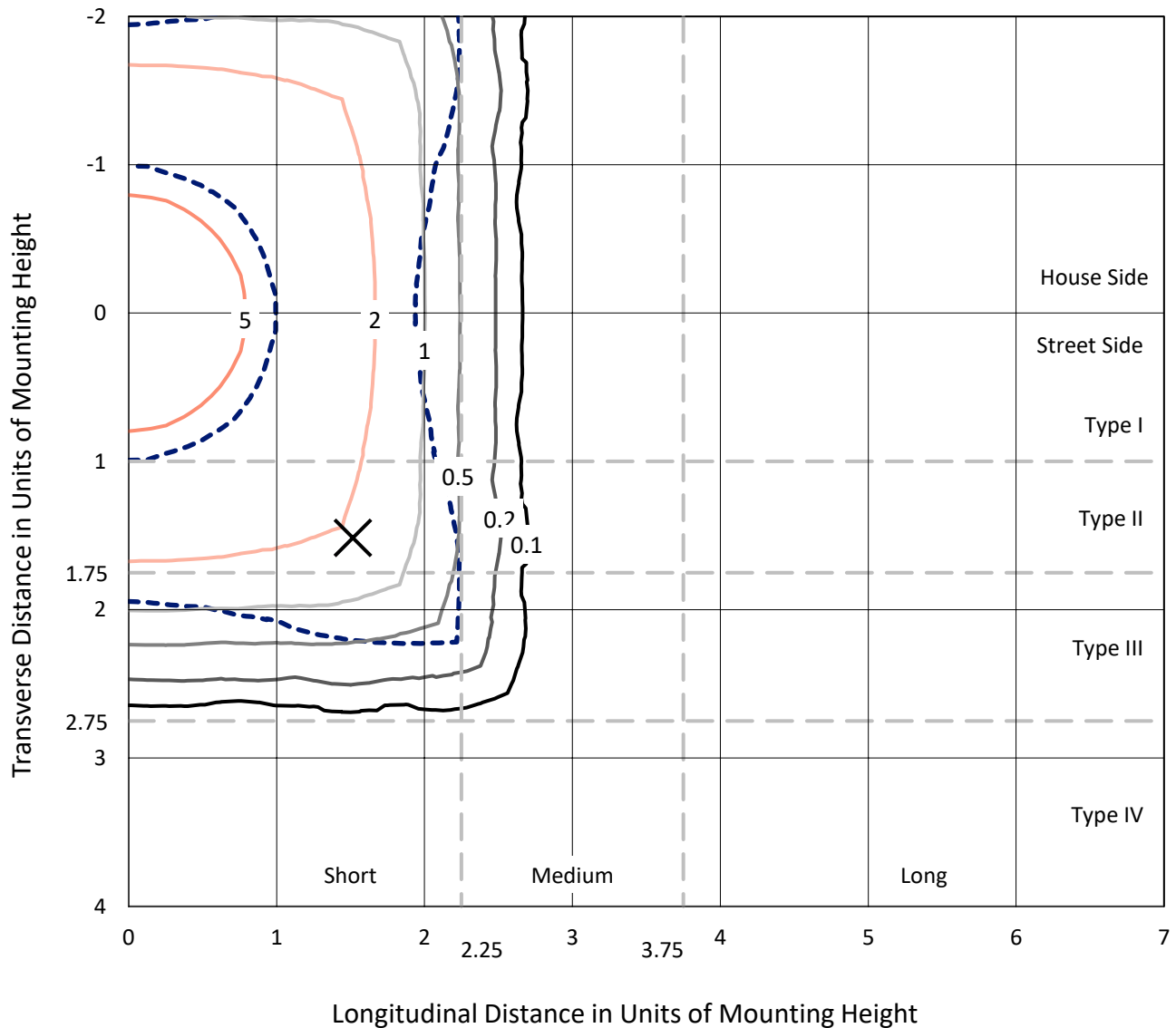
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

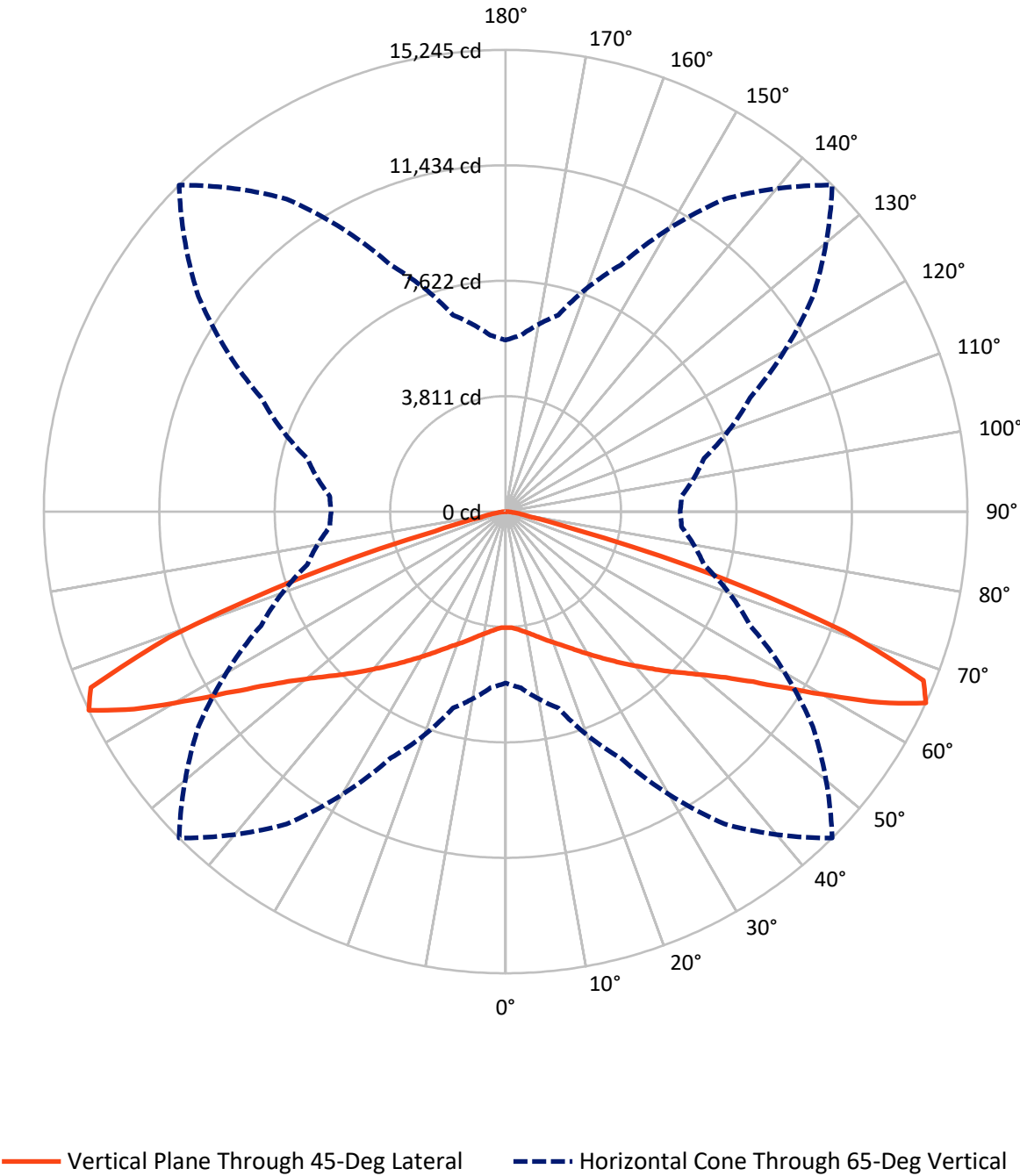
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	16119.2	0.0	16119.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16119.2	0.0	16119.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32238.3	0.0	32238.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	1.2
10°-20°	1235.5	3.8
20°-30°	2332.8	7.2
30°-40°	3820.0	11.8
40°-50°	5922.9	18.4
50°-60°	8749.3	27.1
60°-70°	8328.5	25.8
70°-80°	1343.9	4.2
80°-90°	126.7	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°	32238.3	100.0
0°-180°	32238.3	100.0

Coefficient of Utilization



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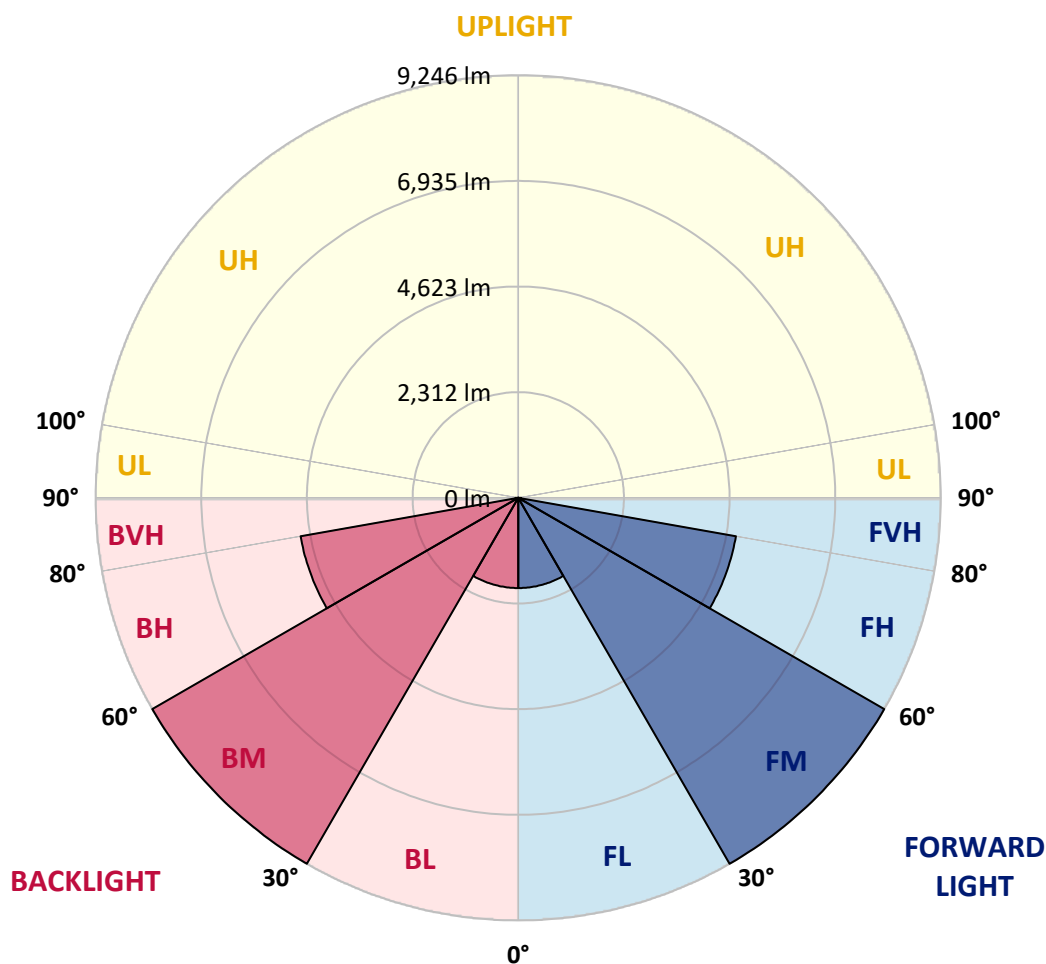
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1973.5	6.1			
FM	(30°-60°)	9246.1	28.7			
FH	(60°-80°)	4836.2	15.0			G2/5000
FVH	(80°-90°)	63.3	0.2			G1/100
BL	(0°-30°)	1973.5	6.1	B3/2500		
BM	(30°-60°)	9246.1	28.7	B5		
BH	(60°-80°)	4836.2	15.0	B4/5000		G2/5000
BVH	(80°-90°)	63.3	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7
2.5°	3862.6	3849.6	3859.3	3851.2	3844.8	3838.3	3841.5	3852.9	3857.7	3859.3	3859.3
5°	3914.3	3903.0	3907.8	3907.8	3896.5	3893.3	3894.9	3903.0	3912.7	3912.7	3912.7
7.5°	3998.4	3987.1	3998.4	3992.0	3982.2	3979.0	3977.4	3983.9	3998.4	3998.4	3993.6
10°	4100.3	4087.4	4093.8	4090.7	4079.3	4074.5	4072.8	4082.6	4095.5	4093.8	4090.7
12.5°	4211.9	4197.4	4205.5	4195.7	4192.6	4187.6	4187.6	4186.1	4194.1	4187.6	4190.9
15°	4336.5	4326.7	4330.0	4323.6	4328.4	4325.2	4312.2	4305.7	4309.0	4299.3	4300.9
17.5°	4483.7	4461.0	4472.4	4469.1	4469.1	4475.6	4454.5	4446.4	4452.9	4443.3	4451.4
20°	4653.5	4630.8	4635.8	4629.2	4621.2	4627.7	4601.7	4608.2	4613.1	4606.6	4621.2
22.5°	4839.5	4810.4	4808.8	4812.1	4794.2	4795.9	4778.0	4794.2	4804.0	4786.1	4804.0
25°	5030.4	4999.6	5020.7	5012.6	4989.9	4994.8	4981.9	4998.0	5006.1	4983.4	5009.4
27.5°	5232.5	5211.5	5231.0	5235.8	5208.3	5227.7	5208.3	5222.9	5231.0	5197.0	5222.9
30°	5468.7	5447.7	5465.5	5478.4	5446.0	5476.8	5460.7	5470.3	5472.0	5431.5	5455.8
32.5°	5725.9	5693.6	5738.9	5745.3	5709.8	5747.0	5725.9	5738.9	5747.0	5691.9	5729.1
35°	6039.7	5999.2	6051.0	6042.9	6012.2	6042.9	6023.5	6042.9	6062.4	5996.0	6036.4
37.5°	6377.8	6335.7	6390.7	6376.1	6347.0	6368.0	6356.7	6369.7	6400.4	6329.3	6372.9
40°	6749.7	6698.0	6772.4	6746.6	6719.1	6715.8	6722.3	6730.4	6770.8	6691.5	6717.4
42.5°	7147.6	7092.7	7204.3	7163.8	7125.1	7099.2	7120.2	7136.4	7175.2	7086.2	7133.1
45°	7602.2	7539.1	7684.7	7636.1	7574.6	7521.3	7555.3	7579.6	7636.1	7529.4	7584.4
47.5°	8103.6	8032.4	8187.7	8173.1	8072.9	7956.5	8034.1	8103.6	8145.7	8016.2	8060.0
50°	8593.7	8538.8	8742.5	8760.3	8637.4	8474.0	8582.4	8687.5	8698.9	8529.0	8550.0
52.5°	9053.1	8998.1	9294.1	9405.7	9295.7	9101.6	9216.5	9323.2	9237.5	9017.5	9024.0
55°	9420.3	9375.0	9751.8	10039.8	10077.0	9916.8	9984.7	9981.6	9700.1	9362.0	9373.3
57.5°	9509.2	9502.8	9978.3	10588.0	10976.3	10995.7	10861.4	10518.6	9912.0	9457.5	9428.4
60°	9104.9	9145.3	9798.7	10874.3	11909.6	12339.8	11759.1	10780.5	9671.0	9040.1	8965.8
62.5°	7895.0	8001.7	8789.5	10525.0	12663.3	13886.1	12479.0	10382.6	8681.0	7857.8	7809.3
65°	5658.0	5843.9	6714.2	8981.9	12595.4	15244.8	12375.4	8909.1	6778.9	5829.4	5759.9
67.5°	2566.9	2756.2	3495.4	6149.7	10948.7	14876.0	10922.9	6214.4	3670.1	2765.9	2725.5
70°	930.1	962.4	1200.2	2461.8	6997.3	11853.0	7296.5	2479.6	1276.2	1025.5	1012.6
72.5°	562.9	567.7	617.9	881.5	2431.1	7196.2	2534.6	910.6	630.8	559.6	569.4
75°	357.4	354.2	439.9	538.6	862.1	2427.8	904.2	538.6	438.3	399.5	402.7
77.5°	257.2	265.3	315.4	402.7	543.5	823.3	533.8	385.0	315.4	258.8	263.6
80°	192.5	197.3	229.7	313.8	381.7	512.7	339.7	284.6	237.8	161.7	166.6
82.5°	139.1	139.1	150.5	228.1	232.9	276.5	184.4	200.6	156.9	114.8	114.8
85°	82.5	80.9	93.8	135.9	121.4	101.9	84.2	122.9	98.7	71.1	69.6
87.5°	29.1	30.7	29.1	38.8	32.4	27.5	25.8	33.9	27.5	24.3	22.7
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)