

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: P970347

Luminaire Tested: **NAV-SB6B-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970347
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-SB6B-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36655 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): 220.4
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

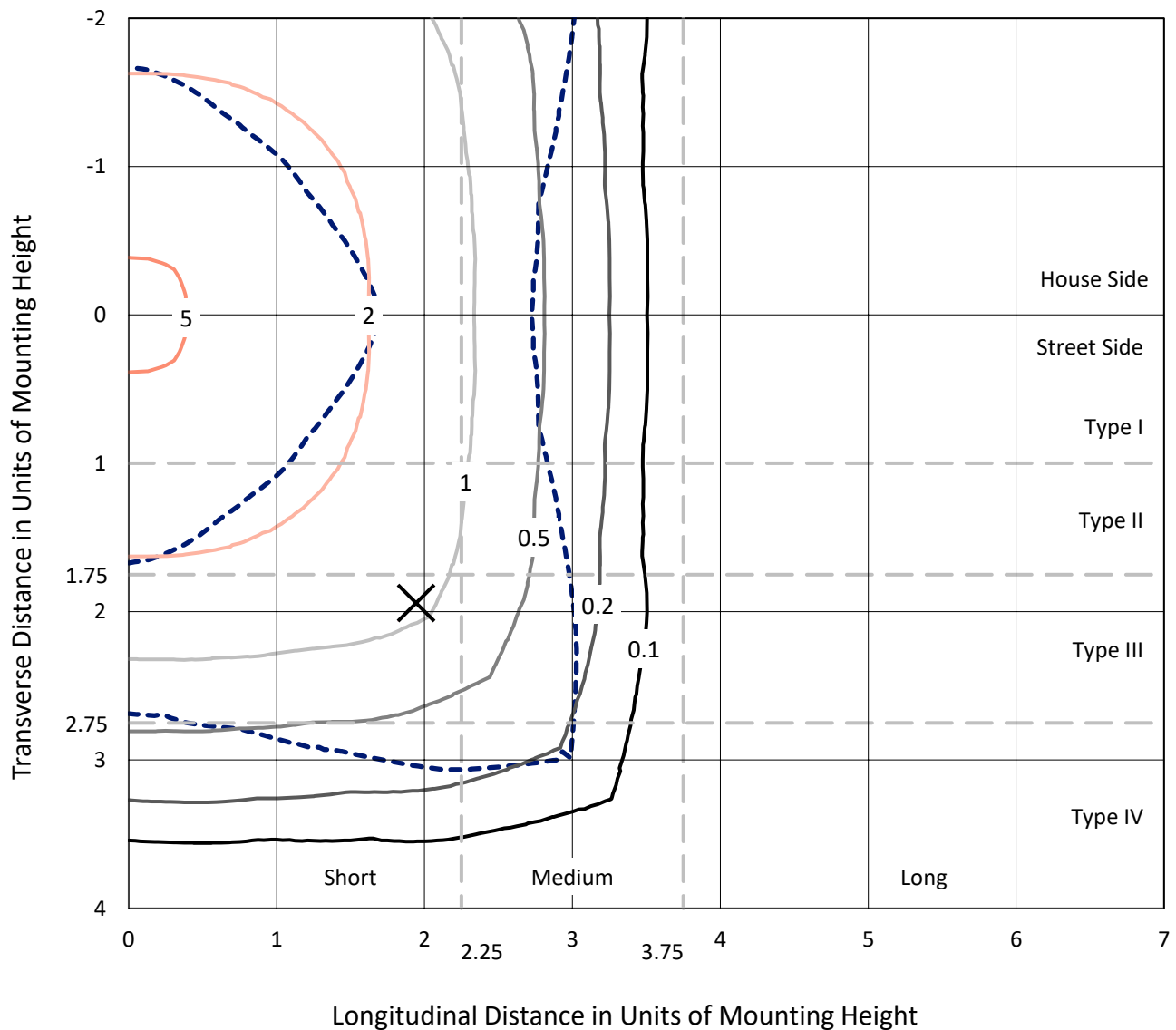


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Iso-Footcandle Lines of Horizontal Illumination

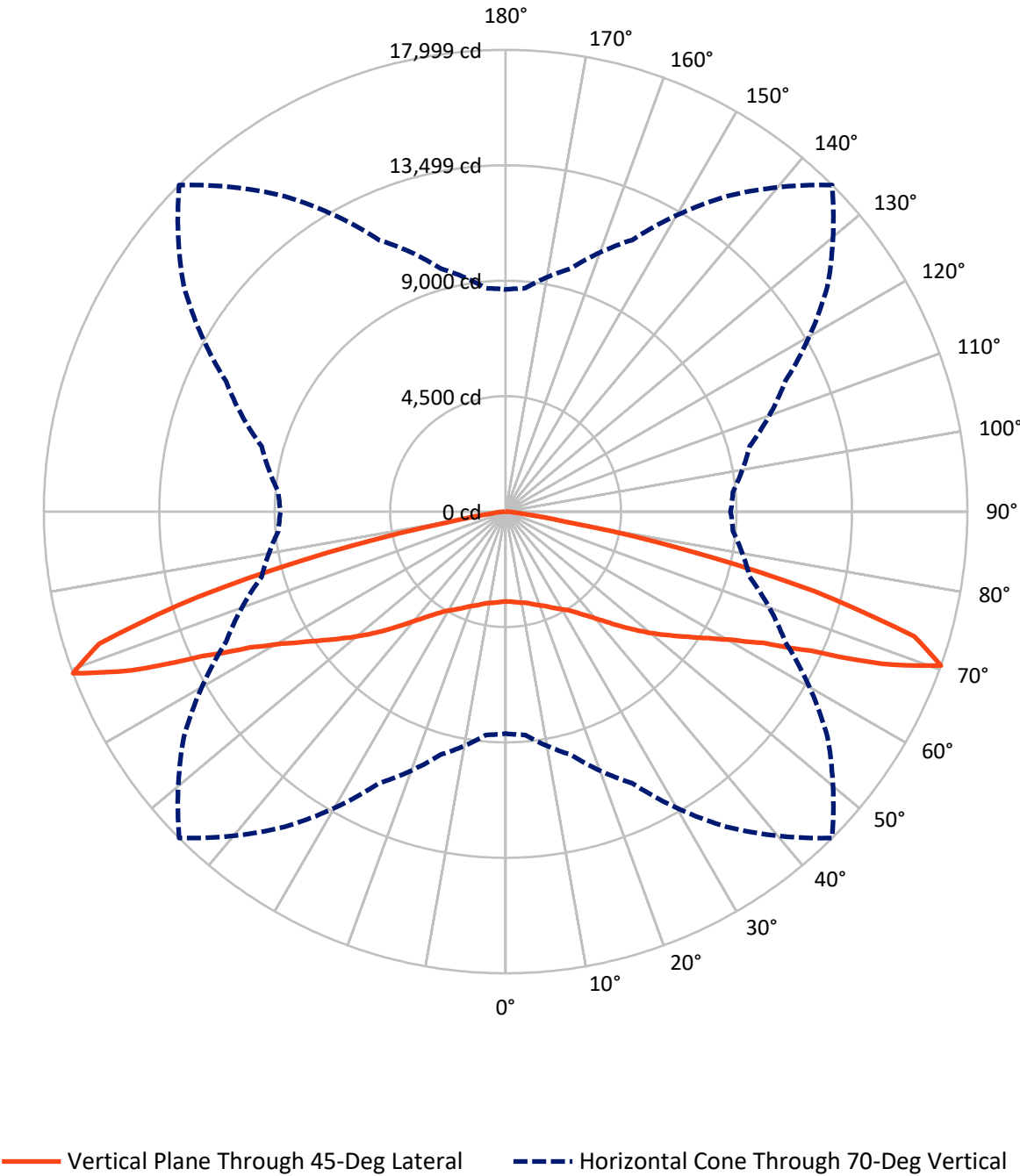
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	18327.5	0.0	18327.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18327.5	0.0	18327.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36655.0	0.0	36655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	0.9
10°-20°	1057.7	2.9
20°-30°	1890.3	5.2
30°-40°	3064.2	8.4
40°-50°	4991.0	13.6
50°-60°	7609.7	20.8
60°-70°	11320.7	30.9
70°-80°	6170.2	16.8
80°-90°	210.1	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°	36655.0	100.0
0°-180°	36655.0	100.0

Coefficient of Utilization



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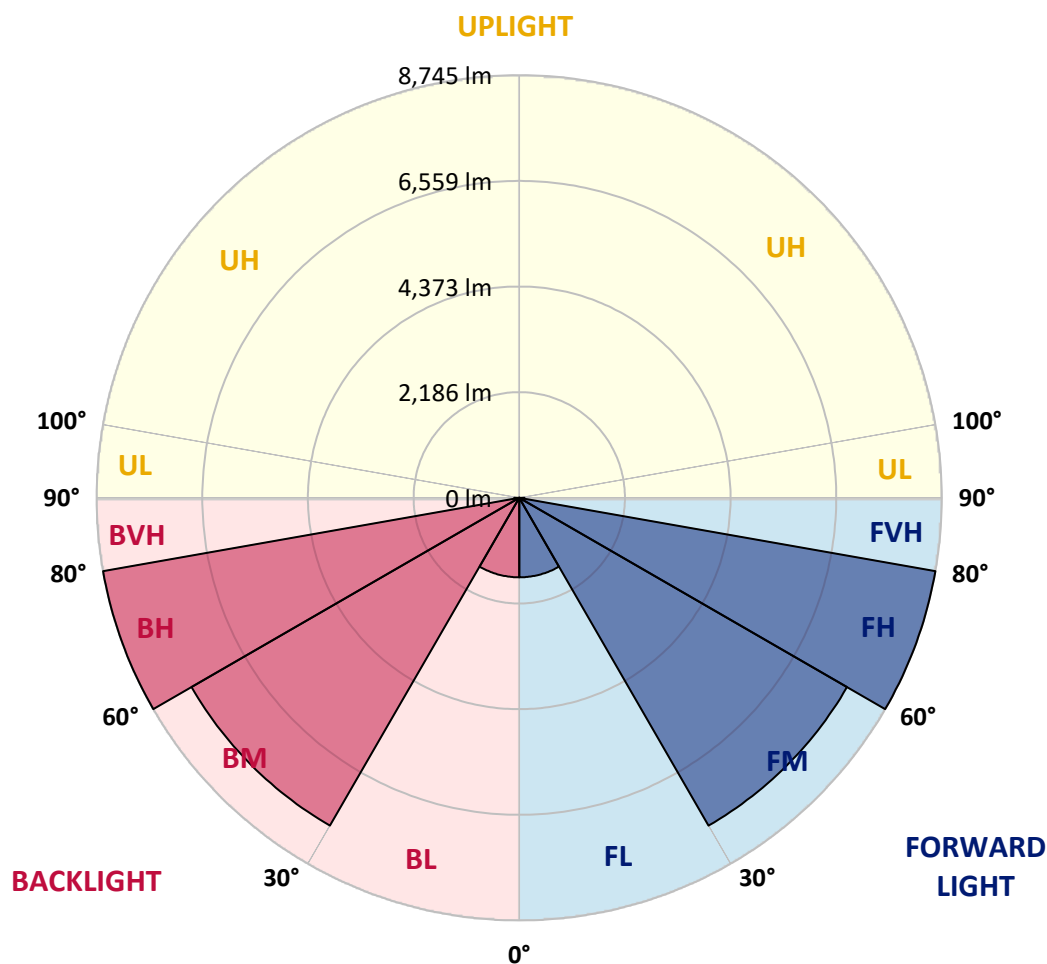
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1644.6	4.5			
FM	(30°-60°)	7832.4	21.4			
FH	(60°-80°)	8745.4	23.9			G4/12000
FVH	(80°-90°)	105.1	0.3			G2/225
BL	(0°-30°)	1644.6	4.5	B3/2500		
BM	(30°-60°)	7832.4	21.4	B4/8500		
BH	(60°-80°)	8745.4	23.9	B5		G4/12000
BVH	(80°-90°)	105.1	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°	3511.1	3511.1	3511.1	3511.1	3511.1	3511.1	3511.1	3511.1	3511.1	3511.1	3511.1
2.5°	3527.7	3531.4	3524.1	3520.4	3516.7	3511.1	3513.0	3522.2	3529.6	3527.7	3529.6
5°	3557.2	3560.8	3555.3	3553.5	3546.1	3544.3	3544.3	3553.5	3559.0	3555.3	3557.2
7.5°	3590.3	3595.8	3586.6	3584.7	3581.1	3577.5	3575.6	3584.7	3590.3	3590.3	3590.3
10°	3621.6	3627.1	3619.8	3614.3	3610.6	3610.6	3606.9	3614.3	3623.5	3621.6	3621.6
12.5°	3654.7	3658.4	3651.0	3647.4	3647.4	3652.9	3647.4	3651.0	3658.4	3654.7	3652.9
15°	3695.2	3697.1	3695.2	3700.8	3709.9	3728.3	3711.7	3708.0	3711.7	3702.6	3702.6
17.5°	3750.4	3754.1	3761.4	3774.4	3787.2	3820.4	3790.9	3781.7	3781.7	3763.3	3763.3
20°	3818.5	3824.0	3835.0	3857.2	3873.7	3904.9	3875.5	3862.6	3857.2	3833.2	3833.2
22.5°	3890.3	3899.5	3916.0	3945.4	3975.0	4004.4	3975.0	3952.8	3936.3	3904.9	3903.1
25°	3973.1	3984.1	4009.9	4057.8	4098.3	4140.5	4105.5	4061.4	4028.2	3984.1	3982.2
27.5°	4090.9	4103.7	4135.1	4193.9	4245.4	4282.2	4249.1	4192.0	4146.0	4092.7	4090.9
30°	4256.5	4269.3	4306.1	4368.8	4403.7	4427.6	4405.6	4361.4	4306.1	4245.4	4245.4
32.5°	4469.9	4486.5	4527.0	4585.8	4593.2	4596.9	4589.5	4567.5	4527.0	4453.4	4455.2
35°	4740.4	4758.9	4804.9	4852.7	4845.4	4852.7	4841.7	4834.3	4804.9	4720.2	4720.2
37.5°	5071.7	5093.7	5141.6	5178.4	5160.1	5150.8	5152.7	5154.5	5137.9	5044.1	5044.1
40°	5456.3	5485.7	5520.8	5559.4	5528.0	5500.5	5518.9	5533.6	5518.9	5423.2	5423.2
42.5°	5851.9	5894.3	5931.1	5986.3	5960.5	5925.5	5951.4	5967.9	5936.6	5833.6	5841.0
45°	6291.8	6332.2	6380.1	6462.9	6444.5	6407.7	6444.5	6448.2	6394.9	6273.4	6286.2
47.5°	6746.3	6788.7	6860.4	6970.8	6963.4	6923.0	6970.8	6945.1	6876.9	6731.6	6722.4
50°	7176.9	7235.8	7346.2	7500.8	7515.5	7465.8	7530.3	7480.6	7366.5	7184.3	7180.6
52.5°	7581.8	7644.3	7819.2	8028.9	8082.3	8018.0	8104.4	8018.0	7846.8	7613.1	7590.9
55°	8006.9	8076.8	8284.8	8559.0	8665.7	8617.8	8698.8	8568.2	8325.3	8041.8	8003.2
57.5°	8507.4	8549.7	8798.2	9123.9	9304.2	9315.3	9352.1	9131.2	8836.8	8514.8	8470.6
60°	9050.2	9109.2	9379.7	9769.8	10055.0	10147.1	10108.4	9780.9	9438.6	9068.7	9009.8
62.5°	9745.9	9810.3	10134.2	10601.6	11052.5	11280.6	11129.8	10655.0	10231.8	9788.2	9711.0
65°	10321.9	10393.7	10978.9	11812.5	12633.2	13091.4	12712.4	11838.2	11076.4	10450.7	10347.7
67.5°	9904.2	9992.5	10910.7	12441.9	14482.6	15850.0	14552.6	12629.5	11137.1	10288.7	10161.7
70°	8656.4	8739.3	9810.3	11681.8	15003.4	17999.3	15316.3	12025.9	9845.2	8895.7	8768.8
72.5°	5747.1	6013.9	7097.8	9342.9	13397.0	16655.9	13529.4	9153.4	6584.4	5734.2	5548.3
75°	1906.5	2119.9	2859.7	4843.5	8973.0	12456.5	8542.3	4285.9	2265.4	1630.5	1542.1
77.5°	480.3	553.9	763.7	1385.7	3579.3	7092.3	3222.3	1131.7	616.4	430.6	384.6
80°	233.7	257.6	368.1	461.9	896.2	2254.3	841.0	434.3	290.8	224.5	206.1
82.5°	128.8	130.7	208.0	261.3	333.1	583.3	345.9	254.0	167.5	136.2	136.2
85°	79.1	77.3	110.4	139.8	139.8	208.0	165.6	139.8	95.7	84.7	88.4
87.5°	31.3	31.3	40.5	44.2	38.6	53.4	42.3	46.0	36.8	35.0	36.8
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)