

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: P969852

Luminaire Tested: **NAV-SB6A-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969852
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-SB6A-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30910.9 lumens
Efficiency: N/A
Efficacy: 180.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

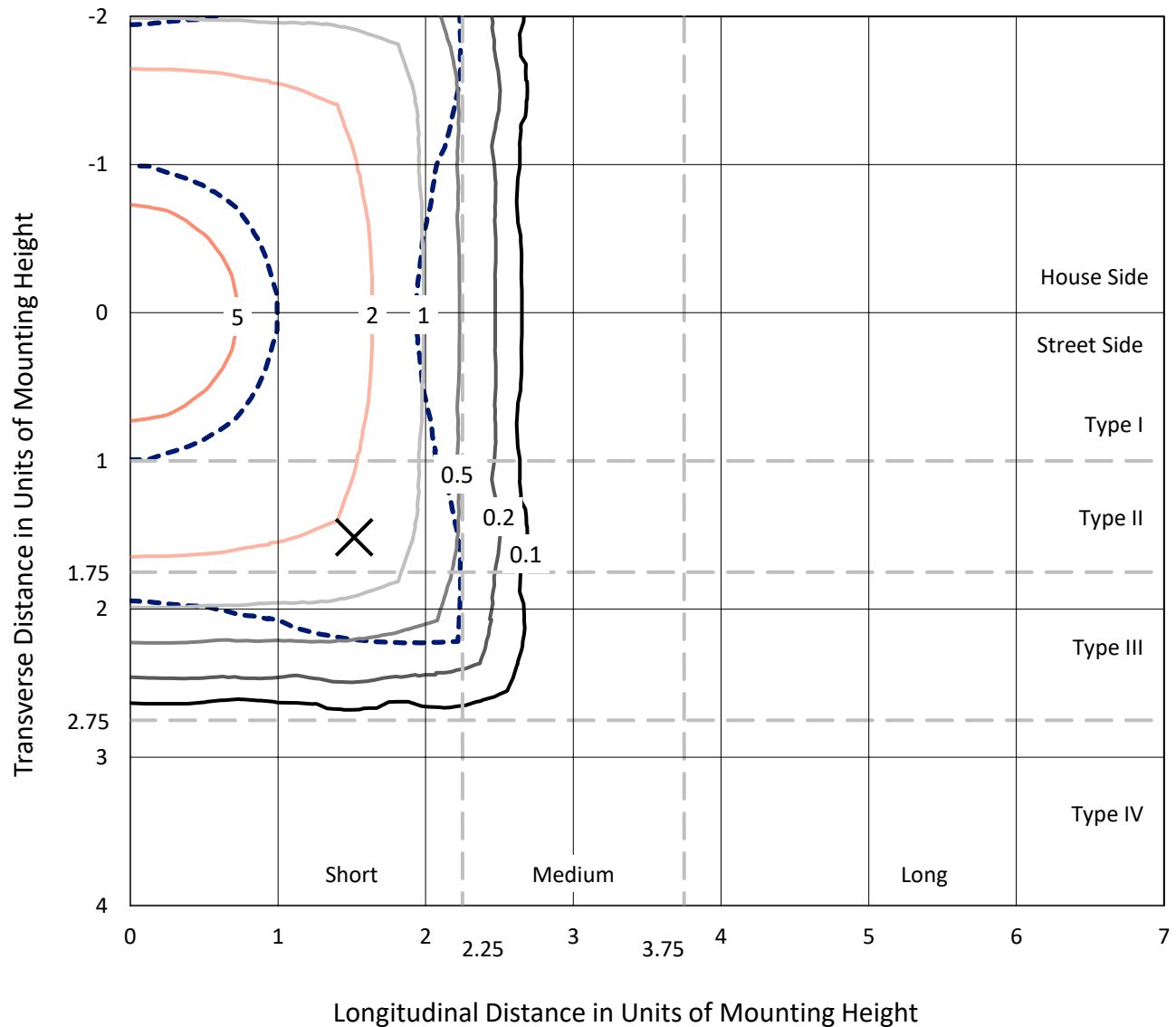
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

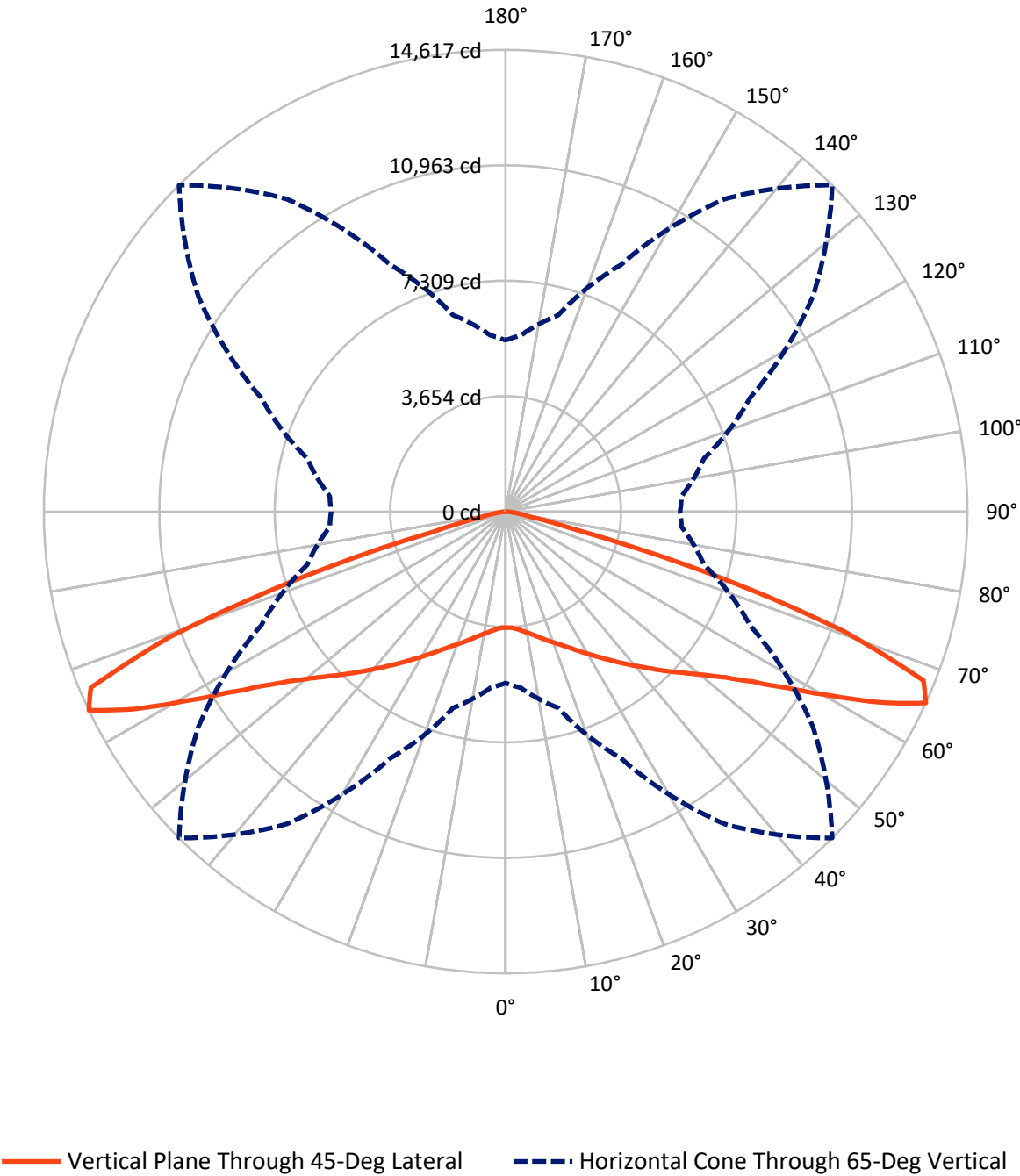
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	15455.5	0.0	15455.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15455.5	0.0	15455.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30910.9	0.0	30910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.2
10°-20°	1184.7	3.8
20°-30°	2236.8	7.2
30°-40°	3662.7	11.8
40°-50°	5679.0	18.4
50°-60°	8389.1	27.1
60°-70°	7985.6	25.8
70°-80°	1288.6	4.2
80°-90°	121.5	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°	30910.9	100.0
0°-180°	30910.9	100.0

Coefficient of Utilization



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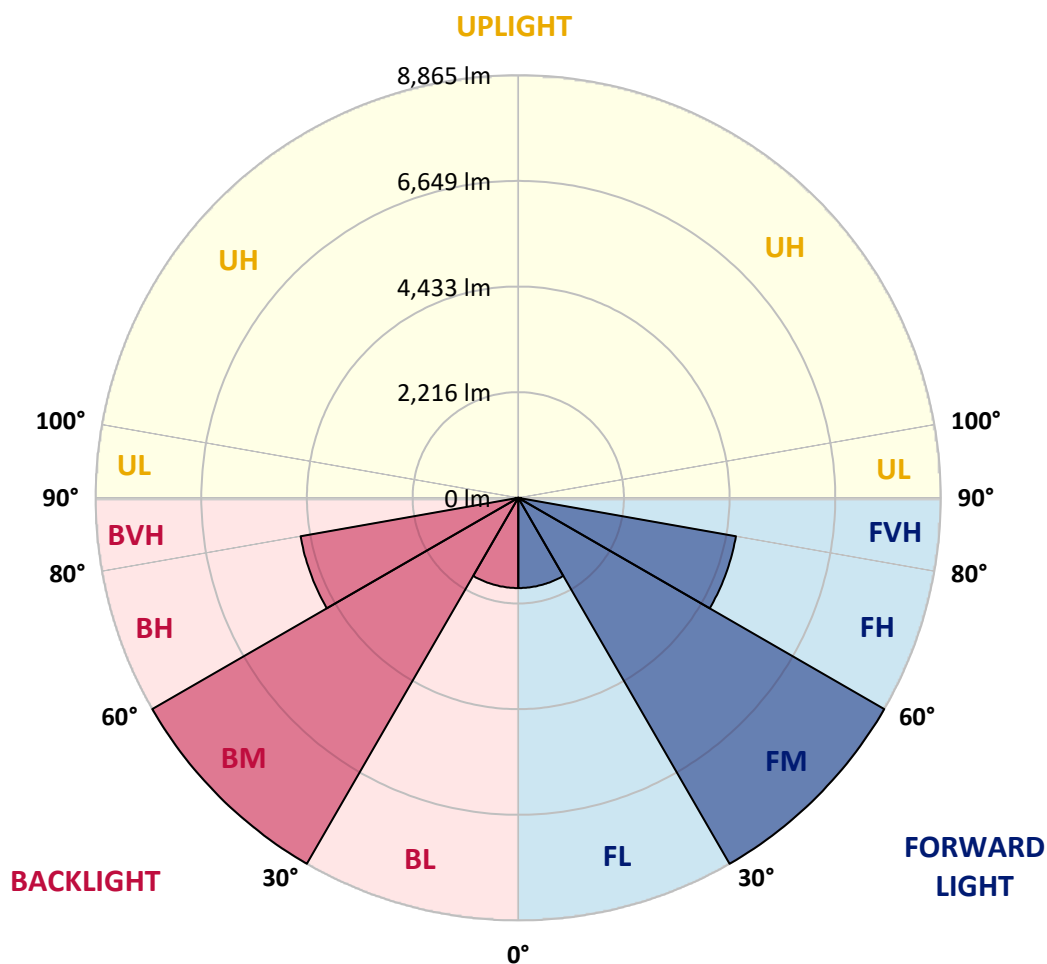
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.3	6.1			
FM	(30°-60°)	8865.4	28.7			
FH	(60°-80°)	4637.1	15.0			G2/5000
FVH	(80°-90°)	60.7	0.2			G1/100
BL	(0°-30°)	1892.3	6.1	B3/2500		
BM	(30°-60°)	8865.4	28.7	B5		
BH	(60°-80°)	4637.1	15.0	B4/5000		G2/5000
BVH	(80°-90°)	60.7	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°	3678.7	3678.7	3678.7	3678.7	3678.7	3678.7	3678.7	3678.7	3678.7	3678.7	3678.7
2.5°	3703.5	3691.1	3700.5	3692.7	3686.4	3680.3	3683.3	3694.2	3698.9	3700.5	3700.5
5°	3753.1	3742.3	3747.0	3747.0	3736.1	3732.9	3734.6	3742.3	3751.6	3751.6	3751.6
7.5°	3833.8	3822.9	3833.8	3827.6	3818.3	3815.2	3813.6	3819.9	3833.8	3833.8	3829.2
10°	3931.5	3919.1	3925.3	3922.2	3911.3	3906.7	3905.1	3914.5	3926.9	3925.3	3922.2
12.5°	4038.5	4024.6	4032.3	4023.0	4019.9	4015.2	4015.2	4013.7	4021.5	4015.2	4018.3
15°	4157.9	4148.6	4151.8	4145.5	4150.2	4147.0	4134.6	4128.5	4131.6	4122.2	4123.8
17.5°	4299.1	4277.3	4288.2	4285.1	4285.1	4291.3	4271.2	4263.4	4269.6	4260.3	4268.0
20°	4461.9	4440.2	4444.8	4438.7	4430.9	4437.1	4412.3	4418.5	4423.2	4416.9	4430.9
22.5°	4640.3	4612.3	4610.8	4613.9	4596.8	4598.4	4581.3	4596.8	4606.1	4589.1	4606.1
25°	4823.2	4793.8	4813.9	4806.2	4784.5	4789.1	4776.7	4792.3	4800.0	4778.2	4803.2
27.5°	5017.2	4997.0	5015.5	5020.2	4993.9	5012.5	4993.9	5007.8	5015.5	4983.0	5007.8
30°	5243.6	5223.4	5240.4	5252.8	5221.9	5251.3	5235.8	5245.1	5246.7	5207.9	5231.2
32.5°	5490.1	5459.2	5502.5	5508.8	5474.6	5510.3	5490.1	5502.5	5510.3	5457.6	5493.3
35°	5791.0	5752.2	5801.9	5794.1	5764.7	5794.1	5775.5	5794.1	5812.8	5749.1	5787.9
37.5°	6115.2	6074.9	6127.6	6113.6	6085.7	6105.8	6095.0	6107.4	6136.9	6068.6	6110.5
40°	6471.8	6422.2	6493.6	6468.8	6442.4	6439.3	6445.5	6453.3	6492.0	6416.0	6440.8
42.5°	6853.4	6800.7	6907.7	6868.9	6831.6	6806.8	6827.0	6842.5	6879.7	6794.4	6839.4
45°	7289.2	7228.7	7368.3	7321.8	7262.8	7211.6	7244.2	7267.5	7321.8	7219.4	7272.2
47.5°	7769.9	7701.7	7850.6	7836.6	7740.5	7628.9	7703.3	7769.9	7810.3	7686.2	7728.1
50°	8239.9	8187.2	8382.6	8399.6	8281.8	8125.1	8229.0	8329.9	8340.7	8177.9	8197.9
52.5°	8680.3	8627.6	8911.5	9018.5	8913.0	8726.8	8836.9	8939.3	8857.1	8646.2	8652.4
55°	9032.4	8988.9	9350.4	9626.4	9662.1	9508.5	9573.6	9570.5	9300.6	8976.5	8987.4
57.5°	9117.7	9111.4	9567.5	10152.1	10524.3	10542.9	10414.2	10085.4	9503.8	9068.1	9040.1
60°	8729.9	8768.8	9395.3	10426.6	11419.2	11831.8	11275.0	10336.7	9272.8	8667.9	8596.6
62.5°	7569.9	7672.2	8427.6	10091.6	12141.9	13314.3	11965.1	9955.1	8323.6	7534.3	7487.7
65°	5425.0	5603.4	6437.7	8612.0	12076.8	14617.1	11865.8	8542.2	6499.7	5589.4	5522.7
67.5°	2461.2	2642.8	3351.4	5896.5	10497.9	14263.5	10473.1	5958.5	3518.9	2652.0	2613.2
70°	891.7	922.8	1150.8	2360.5	6709.1	11364.9	6996.0	2377.5	1223.6	983.3	970.9
72.5°	539.7	544.4	592.4	845.2	2331.0	6899.9	2430.3	873.2	604.9	536.6	545.9
75°	342.8	339.7	421.9	516.4	826.7	2327.9	866.9	516.4	420.2	383.0	386.2
77.5°	246.6	254.3	302.4	386.2	521.1	789.4	511.8	369.1	302.4	248.2	252.8
80°	184.6	189.2	220.3	300.8	366.0	491.6	325.6	273.0	228.0	155.1	159.7
82.5°	133.4	133.4	144.2	218.6	223.3	265.2	176.8	192.3	150.5	110.1	110.1
85°	79.1	77.6	90.0	130.3	116.3	97.7	80.7	117.9	94.6	68.3	66.7
87.5°	27.9	29.4	27.9	37.2	31.1	26.3	24.8	32.6	26.3	23.3	21.7
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)