

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: P967373

Luminaire Tested: **NAV-SB4D-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967373
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-SB4D-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39219.6 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 293.6
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

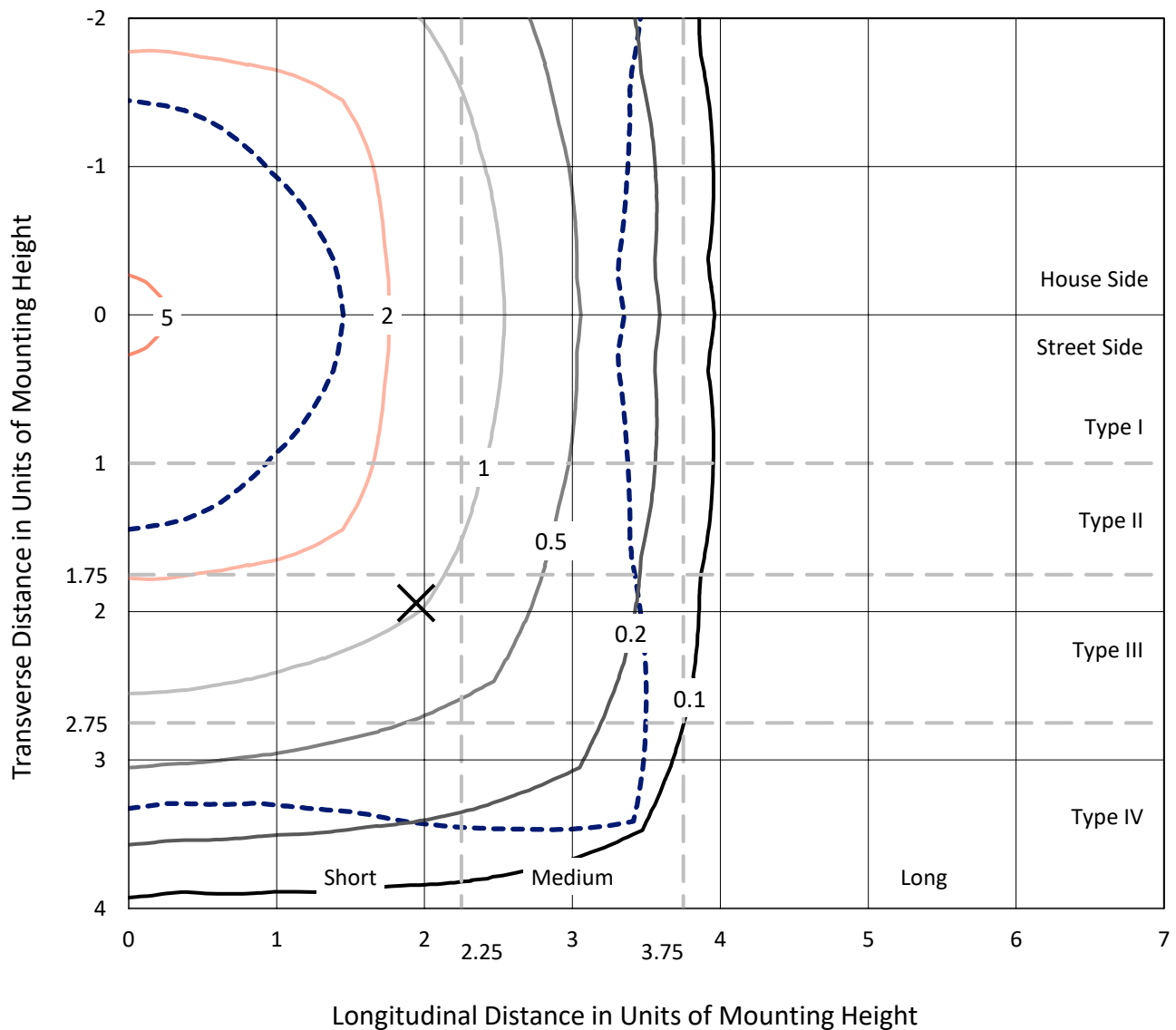


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

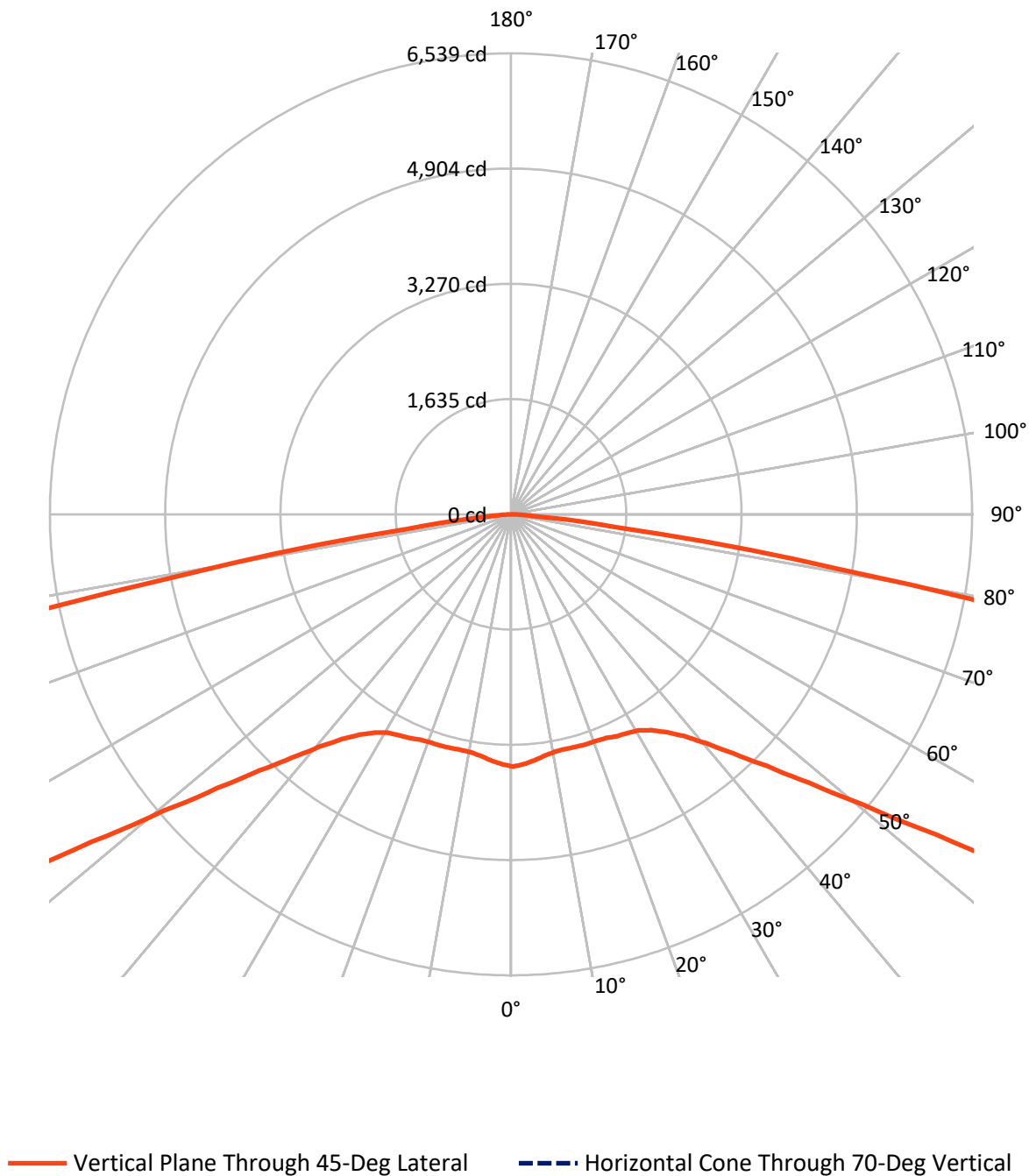


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19609.8	0.0	19609.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19609.8	0.0	19609.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	39219.6	0.0	39219.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	0.8
10°-20°	977.2	2.5
20°-30°	1626.2	4.1
30°-40°	2459.3	6.3
40°-50°	4086.7	10.4
50°-60°	7711.5	19.7
60°-70°	13021.3	33.2
70°-80°	8556.3	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°	39219.6	100.0
0°-180°	39219.6	100.0

Coefficient of Utilization



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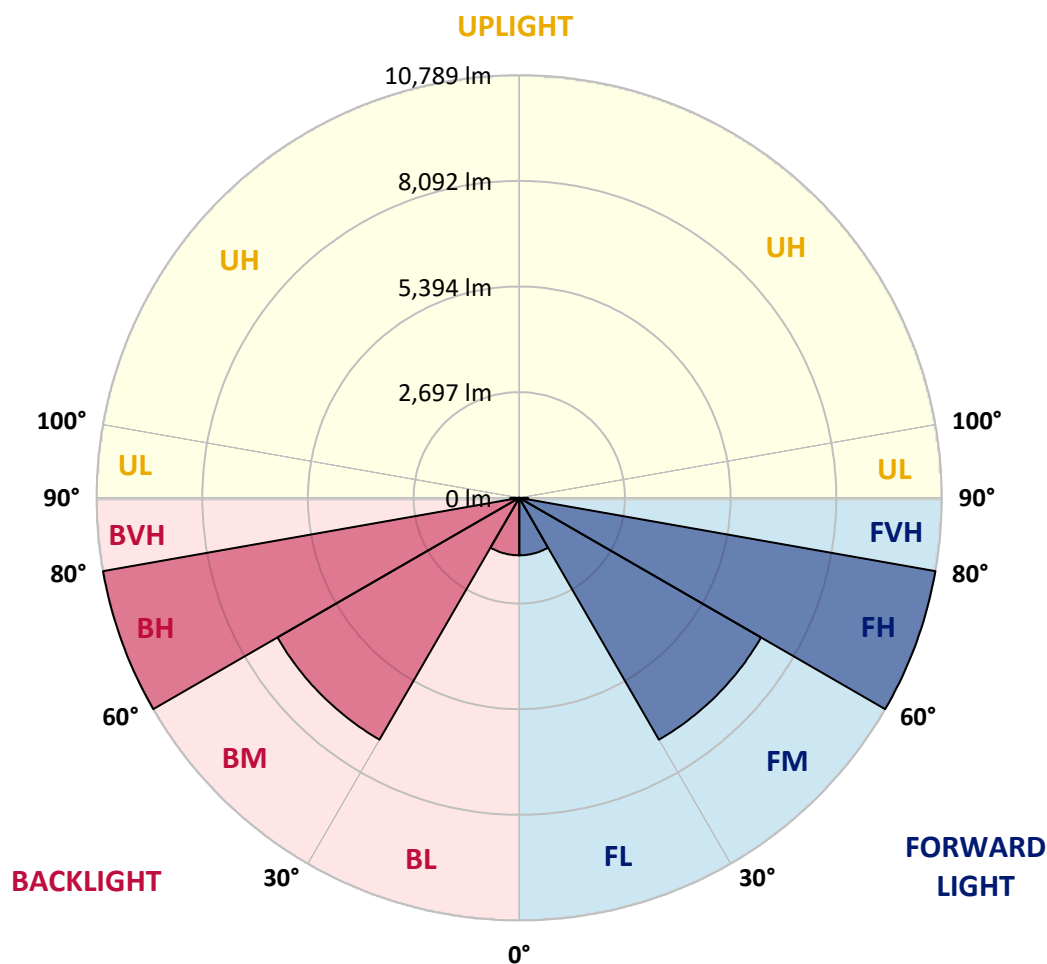
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.1	3.7			
FM	(30°-60°)	7128.8	18.2			
FH	(60°-80°)	10788.8	27.5			G4/12000
FVH	(80°-90°)	224.1	0.6			G2/225
BL	(0°-30°)	1468.1	3.7	B3/2500		
BM	(30°-60°)	7128.8	18.2	B4/8500		
BH	(60°-80°)	10788.8	27.5	B5		G4/12000
BVH	(80°-90°)	224.1	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°	3577.7	3577.7	3577.7	3577.7	3577.7	3577.7	3577.7	3577.7	3577.7	3577.7	3577.7
2.5°	3555.2	3565.4	3561.3	3553.2	3553.2	3547.0	3553.2	3557.3	3563.3	3567.4	3565.4
5°	3508.3	3516.5	3514.4	3508.3	3510.3	3504.3	3508.3	3514.4	3518.5	3520.6	3520.6
7.5°	3467.6	3475.7	3471.6	3461.4	3461.4	3455.3	3457.3	3463.5	3469.5	3471.6	3471.6
10°	3457.3	3465.5	3453.2	3436.9	3430.9	3422.7	3424.7	3430.9	3443.1	3449.2	3449.2
12.5°	3461.4	3467.6	3455.3	3430.9	3424.7	3416.5	3416.5	3422.7	3439.0	3447.2	3449.2
15°	3473.6	3479.8	3461.4	3434.9	3428.8	3422.7	3420.6	3428.8	3447.2	3461.4	3463.5
17.5°	3496.1	3502.2	3473.6	3436.9	3428.8	3430.9	3428.8	3434.9	3463.5	3489.9	3489.9
20°	3516.5	3520.6	3481.8	3436.9	3428.8	3430.9	3428.8	3441.0	3477.7	3514.4	3516.5
22.5°	3522.6	3526.6	3489.9	3451.2	3445.1	3447.2	3445.1	3457.3	3492.0	3528.7	3528.7
25°	3524.6	3530.7	3502.2	3471.6	3481.8	3485.9	3481.8	3483.9	3510.3	3542.9	3541.0
27.5°	3555.2	3563.3	3536.9	3510.3	3516.5	3514.4	3520.6	3526.6	3547.0	3579.6	3571.5
30°	3618.4	3624.5	3602.1	3575.6	3571.5	3557.3	3575.6	3596.0	3618.4	3647.0	3640.8
32.5°	3722.4	3734.6	3706.1	3677.5	3659.1	3651.0	3665.3	3699.9	3730.5	3761.0	3748.8
35°	3895.6	3903.8	3877.3	3824.3	3791.7	3791.7	3803.9	3848.8	3897.7	3936.4	3922.2
37.5°	4140.3	4150.4	4103.6	4040.3	3991.5	3991.5	4007.7	4054.6	4128.0	4183.0	4162.6
40°	4437.8	4452.2	4393.0	4327.8	4280.9	4272.7	4293.1	4346.1	4415.5	4484.8	4462.3
42.5°	4796.7	4813.0	4735.5	4678.4	4641.7	4641.7	4652.0	4700.9	4764.0	4849.7	4843.5
45°	5255.3	5283.9	5177.9	5120.8	5086.2	5094.2	5100.4	5143.2	5200.2	5298.1	5294.0
47.5°	5801.6	5830.2	5718.1	5658.9	5652.9	5691.5	5667.1	5697.7	5728.2	5840.3	5807.8
50°	6421.3	6470.3	6392.8	6388.7	6401.0	6472.4	6415.3	6431.6	6396.9	6468.3	6425.4
52.5°	7179.7	7251.1	7236.8	7261.2	7397.8	7544.6	7414.1	7357.0	7226.6	7249.0	7173.6
55°	8099.0	8207.1	8227.5	8374.2	8684.1	8983.8	8706.6	8476.2	8199.0	8148.0	8068.5
57.5°	9144.8	9230.4	9328.3	9627.9	10206.9	10738.9	10206.9	9697.3	9261.0	9157.0	9083.7
60°	10270.1	10376.1	10469.9	10912.3	11772.5	12520.7	11756.1	10946.9	10370.0	10229.3	10107.0
62.5°	11479.0	11615.5	11680.8	12172.1	13175.0	14067.9	13189.3	12208.8	11568.7	11417.8	11295.5
65°	12638.9	12751.0	12824.4	13348.3	14306.3	15201.3	14371.6	13405.4	12746.9	12549.2	12451.3
67.5°	13179.0	13240.2	13419.6	14012.9	15023.9	16045.2	15195.2	14076.0	13340.2	12993.6	12997.6
70°	12388.2	12263.8	12696.0	13645.9	15109.5	16563.1	15305.3	13617.3	12716.4	12153.7	12288.2
72.5°	9572.9	9358.9	10109.1	11733.8	14131.1	16232.8	14228.9	11825.5	10575.8	9434.3	9717.6
75°	5208.4	4965.8	6001.4	8056.3	11269.0	14069.9	11527.9	8286.6	6682.3	5169.7	5506.1
77.5°	1469.7	1378.0	2213.8	3897.7	6778.1	9878.7	7039.0	3983.3	2625.6	1557.4	1730.7
80°	450.5	436.2	591.2	1174.2	2878.4	4731.4	2766.3	1188.5	752.2	475.0	501.4
82.5°	267.0	244.7	293.6	428.0	733.9	1486.0	713.5	446.4	358.7	240.6	261.0
85°	152.9	142.7	173.2	208.0	246.6	316.0	205.9	212.0	191.6	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)