

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: P968921

Luminaire Tested: **NAV-SB5C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968921
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-SB5C-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36489 lumens
Efficiency: N/A
Efficacy: 146.2 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

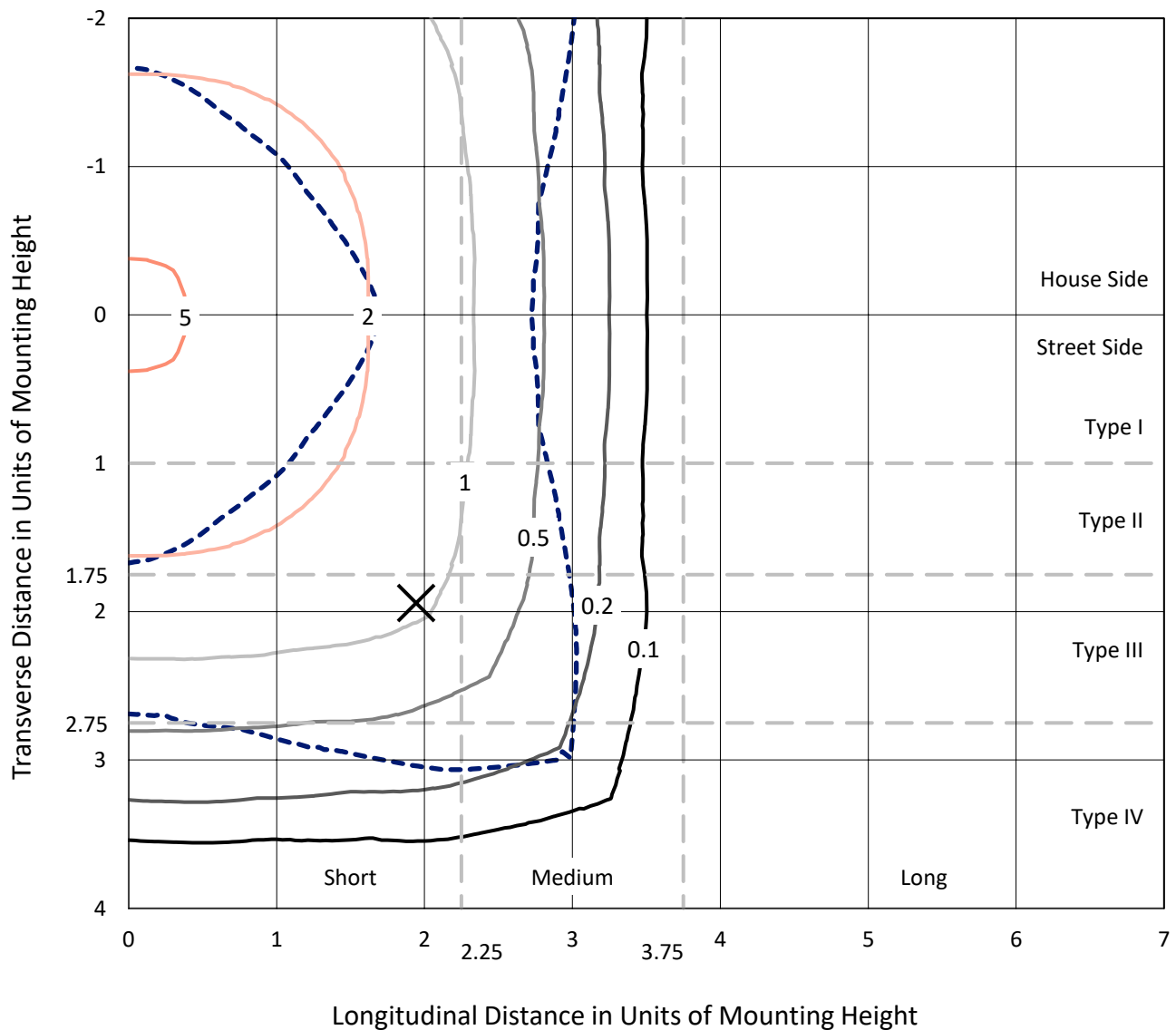


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Iso-Footcandle Lines of Horizontal Illumination

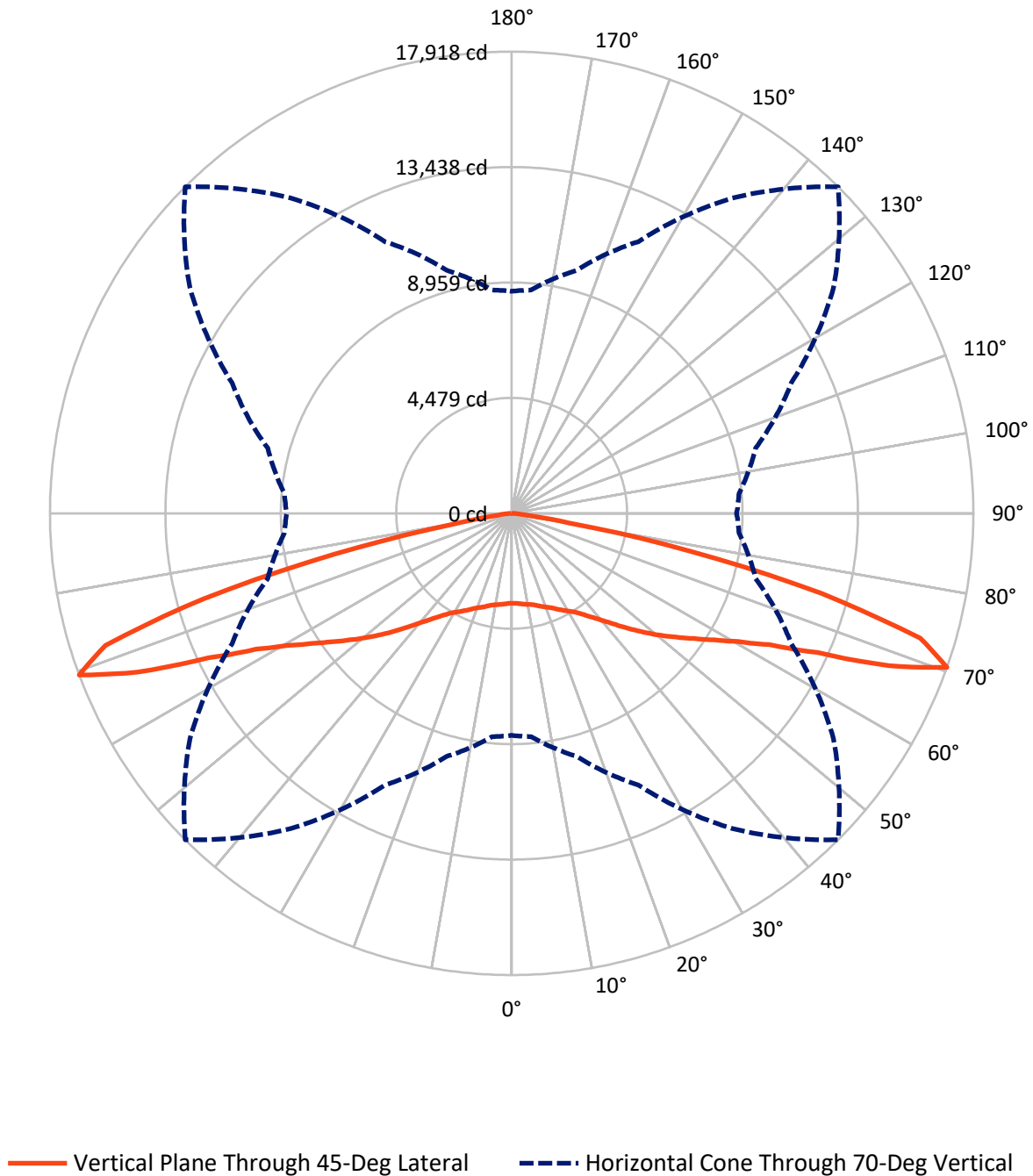
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	18244.5	0.0	18244.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18244.5	0.0	18244.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36489.0	0.0	36489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	0.9
10°-20°	1053.0	2.9
20°-30°	1881.8	5.2
30°-40°	3050.3	8.4
40°-50°	4968.4	13.6
50°-60°	7575.2	20.8
60°-70°	11269.4	30.9
70°-80°	6142.2	16.8
80°-90°	209.2	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°	36489.0	100.0
0°-180°	36489.0	100.0

Coefficient of Utilization



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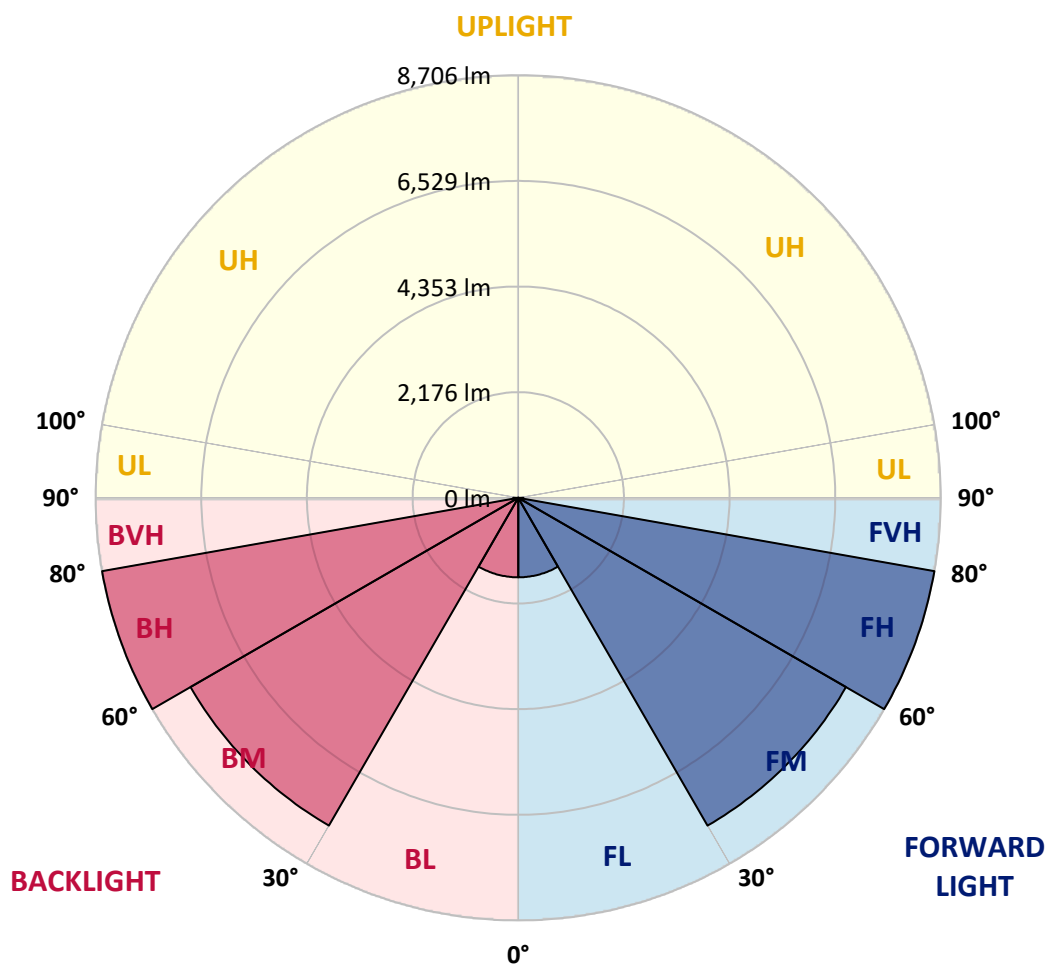
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.1	4.5			
FM	(30°-60°)	7796.9	21.4			
FH	(60°-80°)	8705.8	23.9			G4/12000
FVH	(80°-90°)	104.6	0.3			G2/225
BL	(0°-30°)	1637.1	4.5	B3/2500		
BM	(30°-60°)	7796.9	21.4	B4/8500		
BH	(60°-80°)	8705.8	23.9	B5		G4/12000
BVH	(80°-90°)	104.6	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°	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2
2.5°	3511.8	3515.4	3508.1	3504.5	3500.8	3495.2	3497.1	3506.2	3513.6	3511.8	3513.6
5°	3541.1	3544.8	3539.2	3537.4	3530.1	3528.3	3528.3	3537.4	3542.9	3539.2	3541.1
7.5°	3574.1	3579.5	3570.4	3568.5	3564.8	3561.3	3559.4	3568.5	3574.1	3574.1	3574.1
10°	3605.1	3610.7	3603.4	3597.9	3594.2	3594.2	3590.6	3597.9	3607.0	3605.1	3605.1
12.5°	3638.1	3641.8	3634.4	3630.9	3630.9	3636.3	3630.9	3634.4	3641.8	3638.1	3636.3
15°	3678.4	3680.3	3678.4	3684.0	3693.1	3711.4	3694.9	3691.2	3694.9	3685.8	3685.8
17.5°	3733.5	3737.0	3744.4	3757.2	3770.1	3803.1	3773.7	3764.5	3764.5	3746.3	3746.3
20°	3801.2	3806.6	3817.7	3839.6	3856.2	3887.3	3858.0	3845.2	3839.6	3815.9	3815.9
22.5°	3872.7	3881.8	3898.3	3927.6	3956.9	3986.2	3956.9	3934.9	3918.5	3887.3	3885.5
25°	3955.1	3966.0	3991.8	4039.3	4079.6	4121.7	4087.0	4043.0	4010.0	3966.0	3964.2
27.5°	4072.3	4085.1	4116.3	4174.9	4226.2	4262.9	4229.9	4173.1	4127.3	4074.2	4072.3
30°	4237.1	4250.1	4286.7	4349.0	4383.7	4407.6	4385.6	4341.6	4286.7	4226.2	4226.2
32.5°	4449.7	4466.1	4506.5	4565.1	4572.4	4576.1	4568.7	4546.8	4506.5	4433.2	4435.1
35°	4719.0	4737.3	4783.1	4830.7	4823.4	4830.7	4819.8	4812.4	4783.1	4698.8	4698.8
37.5°	5048.7	5070.7	5118.3	5154.9	5136.7	5127.5	5129.3	5131.2	5114.6	5021.3	5021.3
40°	5431.6	5460.9	5495.7	5534.2	5503.0	5475.5	5493.9	5508.6	5493.9	5398.6	5398.6
42.5°	5825.5	5867.6	5904.2	5959.1	5933.5	5898.7	5924.4	5940.9	5909.7	5807.1	5814.4
45°	6263.3	6303.5	6351.2	6433.6	6415.3	6378.7	6415.3	6419.0	6365.9	6244.9	6257.7
47.5°	6715.7	6757.9	6829.4	6939.2	6931.9	6891.6	6939.2	6913.6	6845.8	6701.1	6691.9
50°	7144.5	7203.0	7313.0	7466.8	7481.5	7432.1	7496.1	7446.6	7333.1	7151.7	7148.0
52.5°	7547.4	7609.7	7783.7	7992.5	8045.7	7981.6	8067.7	7981.6	7811.2	7578.5	7556.6
55°	7970.6	8040.2	8247.3	8520.2	8626.4	8578.8	8659.4	8529.3	8287.5	8005.5	7966.9
57.5°	8468.9	8511.0	8758.3	9082.5	9262.1	9273.1	9309.8	9089.9	8796.8	8476.2	8432.3
60°	9009.2	9067.9	9337.2	9725.6	10009.5	10101.1	10062.6	9736.6	9395.9	9027.6	8969.0
62.5°	9701.7	9765.9	10088.3	10553.6	11002.3	11229.6	11079.3	10606.7	10185.3	9743.9	9667.0
65°	10275.1	10346.6	10929.2	11759.0	12576.0	13032.2	12654.8	11784.6	11026.2	10403.3	10300.7
67.5°	9859.3	9947.2	10861.3	12385.5	14417.0	15778.1	14486.6	12572.3	11086.7	10242.1	10115.7
70°	8617.3	8699.7	9765.9	11628.9	14935.5	17917.8	15246.9	11971.5	9800.6	8855.4	8729.0
72.5°	5721.0	5986.6	7065.6	9300.5	13336.3	16580.5	13468.1	9111.8	6554.6	5708.2	5523.2
75°	1897.9	2110.4	2846.7	4821.6	8932.4	12400.1	8503.7	4266.5	2255.1	1623.1	1535.1
77.5°	478.2	551.4	760.2	1379.4	3563.0	7060.1	3207.6	1126.6	613.7	428.7	382.8
80°	232.7	256.5	366.3	459.8	892.2	2244.0	837.2	432.3	289.5	223.4	205.2
82.5°	128.2	130.1	207.0	260.1	331.6	580.7	344.4	252.8	166.7	135.6	135.6
85°	78.8	77.0	109.9	139.2	139.2	207.0	164.8	139.2	95.2	84.3	87.9
87.5°	31.2	31.2	40.3	44.0	38.4	53.1	42.1	45.8	36.6	34.8	36.6
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)