

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: P885175

Luminaire Tested: **NAV-SB6B-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29585 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

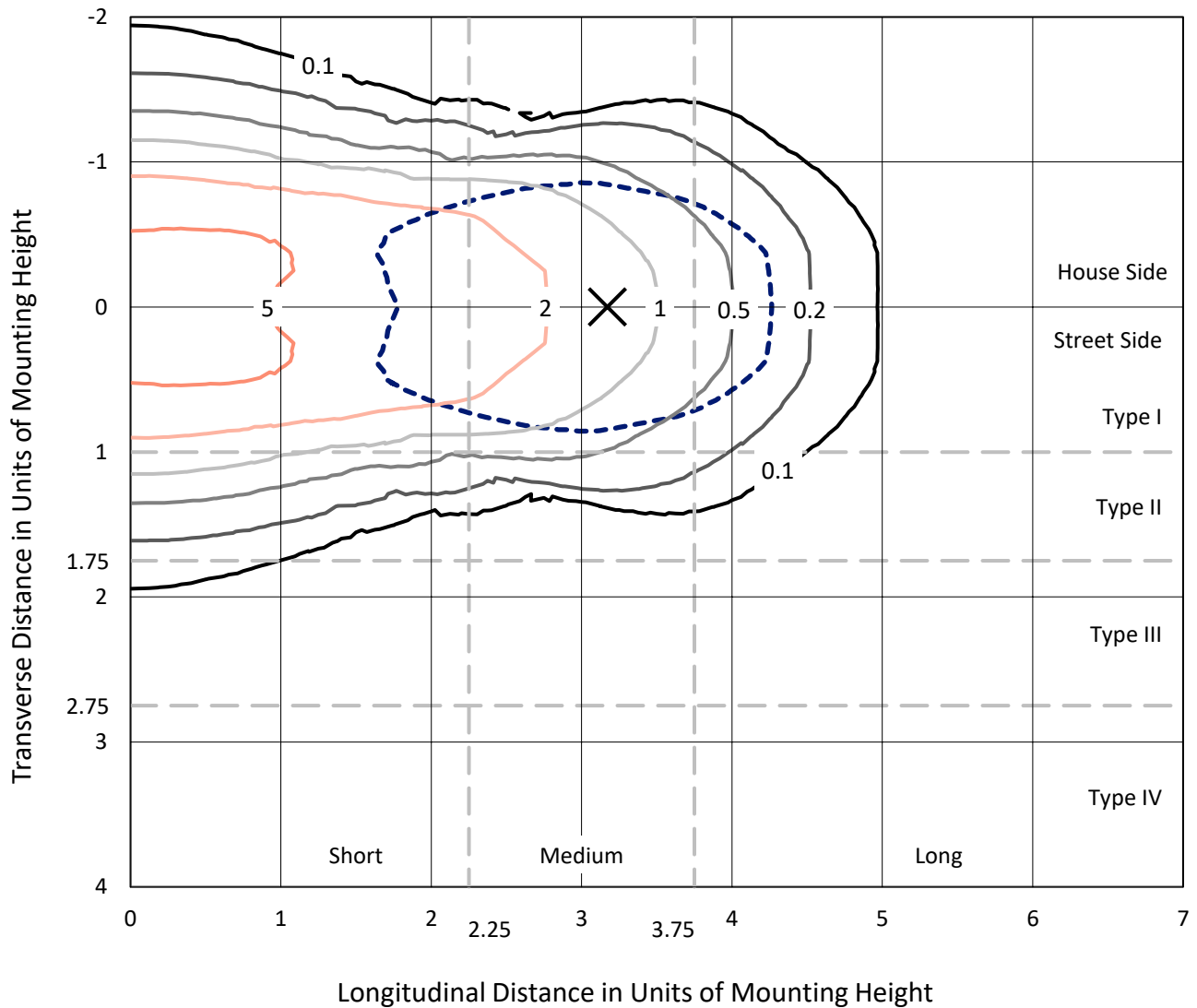
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

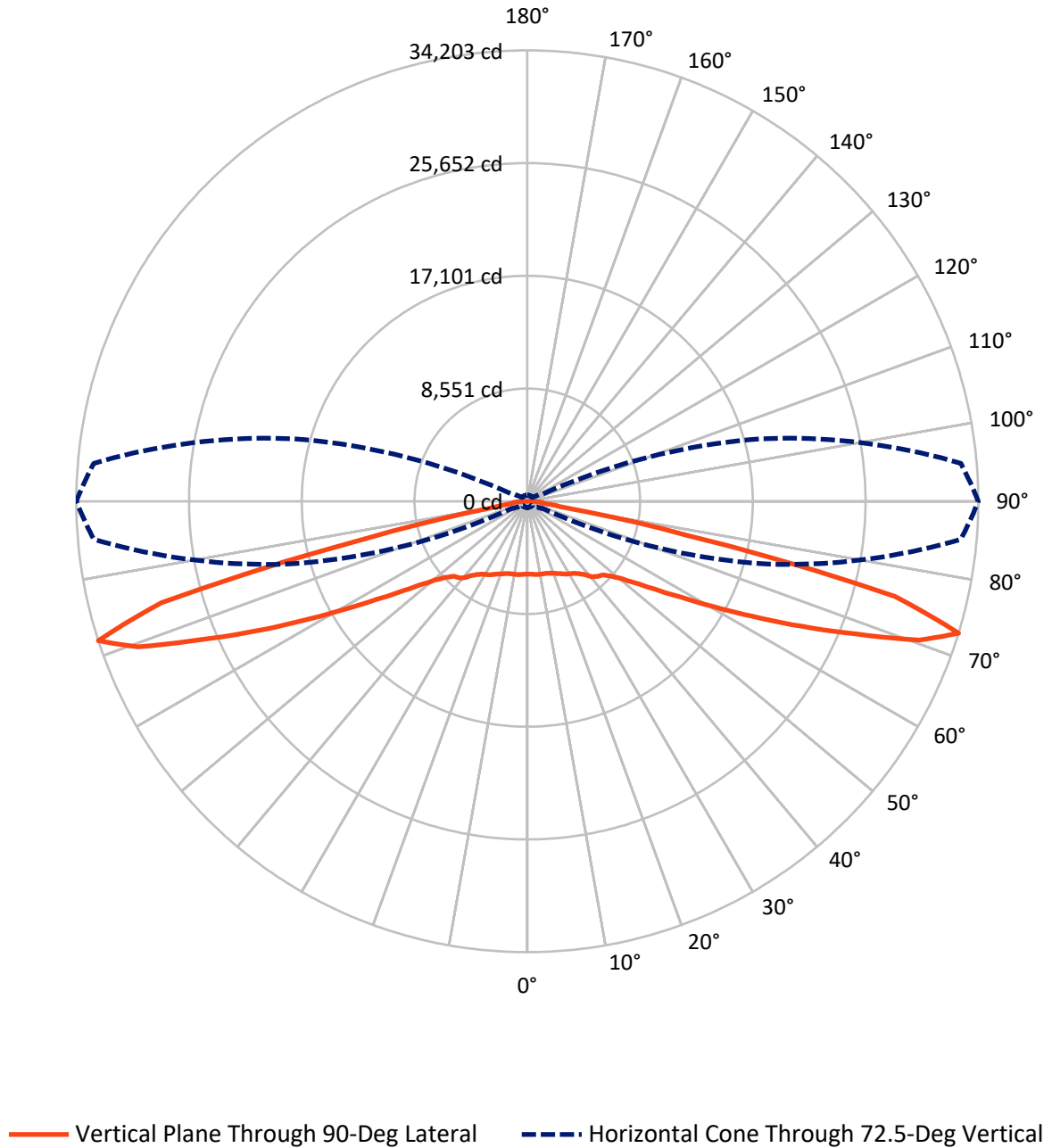
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14792.5	0.0	14792.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14792.5	0.0	14792.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29585.0	0.0	29585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	1.8
10°-20°	1639.0	5.5
20°-30°	2732.8	9.2
30°-40°	3758.5	12.7
40°-50°	4590.2	15.5
50°-60°	5309.0	17.9
60°-70°	6330.1	21.4
70°-80°	4418.0	14.9
80°-90°	271.4	0.9
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°	29585.0	100.0
0°-180°	29585.0	100.0

Coefficient of Utilization



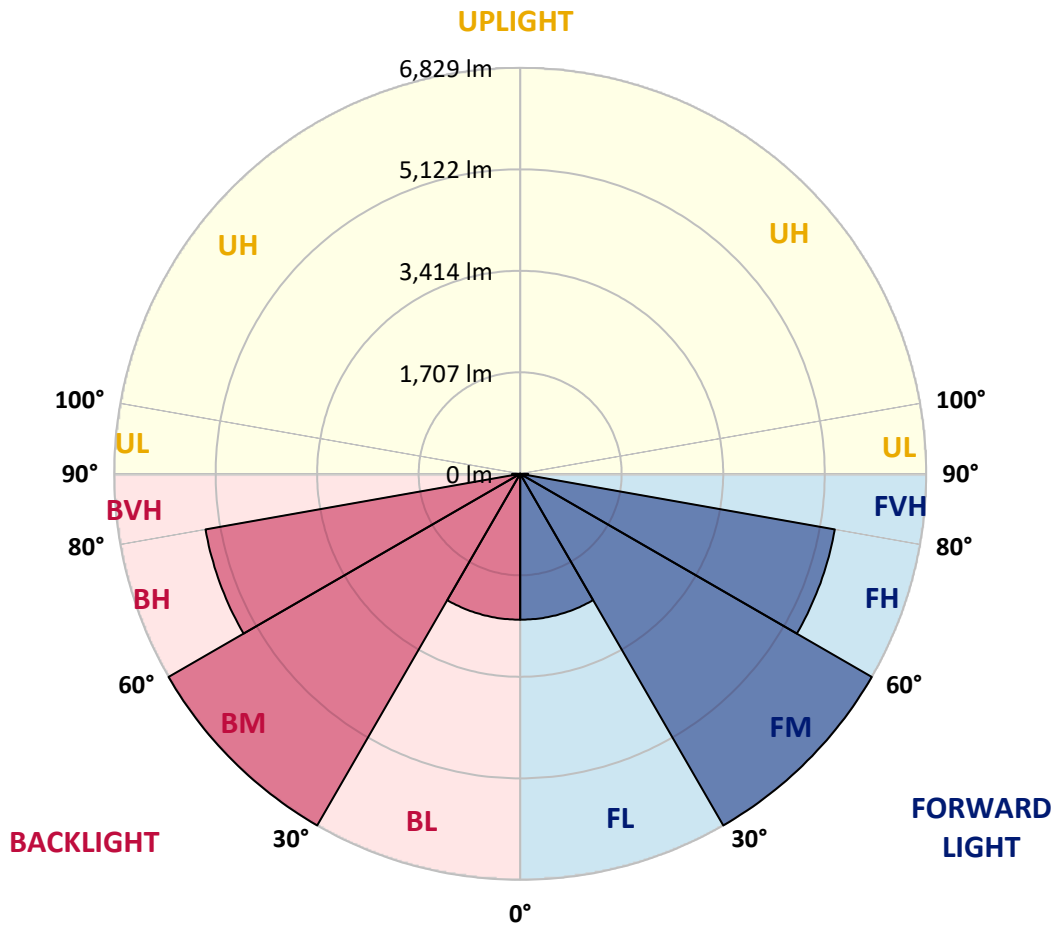
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2453.9	8.3			
FM (30°-60°)	6828.8	23.1			
FH (60°-80°)	5374.1	18.2			G3/7500
FVH (80°-90°)	135.7	0.5			G2/225
BL (0°-30°)	2453.9	8.3	B3/2500		
BM (30°-60°)	6828.8	23.1	B4/8500		
BH (60°-80°)	5374.1	18.2	B5		G5
BVH (80°-90°)	135.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5528.3	5528.3	5528.3	5528.3	5528.3	5528.3	5528.3	5528.3	5528.3	5528.3	5528.3
2.5°	5533.0	5539.3	5539.3	5534.6	5545.6	5536.1	5536.1	5531.4	5536.1	5531.4	5531.4
5°	5561.3	5569.1	5572.3	5570.7	5584.9	5577.0	5577.0	5570.7	5572.3	5567.6	5567.6
7.5°	5614.7	5625.8	5632.0	5639.9	5660.3	5650.9	5644.6	5625.8	5617.9	5605.3	5605.3
10°	5632.0	5644.6	5665.1	5705.9	5753.1	5754.7	5735.8	5688.6	5652.5	5624.2	5619.5
12.5°	5578.6	5595.9	5638.3	5721.7	5827.0	5869.5	5839.6	5761.0	5690.2	5639.9	5632.0
15°	5511.0	5529.8	5594.3	5720.1	5875.8	5974.8	5971.7	5867.9	5754.7	5676.1	5663.5
17.5°	5405.6	5424.5	5517.3	5693.4	5913.5	6077.0	6121.0	6014.1	5855.3	5750.0	5732.7
20°	5215.4	5232.7	5361.6	5608.5	5926.1	6185.5	6300.3	6205.9	6007.8	5864.7	5838.0
22.5°	4968.5	4995.3	5146.2	5462.2	5896.2	6298.7	6504.7	6440.2	6185.5	5987.4	5951.2
25°	4704.4	4732.7	4908.8	5283.0	5819.1	6380.5	6746.8	6705.9	6386.8	6139.9	6089.6
27.5°	4476.4	4506.3	4698.1	5105.3	5699.7	6411.9	6985.8	7006.2	6630.5	6308.1	6254.7
30°	4297.1	4325.4	4529.8	4962.2	5545.6	6380.5	7194.9	7336.4	6878.9	6454.4	6377.3
32.5°	4100.6	4136.8	4352.2	4787.7	5363.2	6305.0	7377.3	7693.4	7166.6	6611.6	6514.1
35°	3852.2	3885.2	4111.6	4548.7	5124.2	6183.9	7529.8	8089.6	7578.6	6850.6	6742.1
37.5°	3550.3	3581.7	3806.6	4250.0	4886.8	6014.1	7646.2	8536.1	8069.1	7194.9	7050.3
40°	3246.8	3276.7	3487.4	3916.6	4602.2	5797.1	7687.1	8973.2	8632.0	7668.2	7514.1
42.5°	2968.5	2995.3	3188.7	3588.0	4283.0	5520.4	7633.6	9353.7	9136.7	7998.4	7800.3
45°	2712.2	2735.8	2907.2	3279.9	3951.2	5183.9	7473.2	9762.5	9737.4	8234.2	7966.9
47.5°	2419.8	2443.4	2621.1	2981.1	3619.5	4789.3	7201.2	10165.0	10572.3	8768.8	8460.6
50°	2062.9	2083.3	2265.7	2636.8	3275.1	4369.5	6823.9	10481.1	11625.7	9578.6	9191.8
52.5°	1639.9	1661.9	1839.6	2210.7	2866.3	3918.2	6327.0	10687.0	12842.7	10760.9	10284.5
55°	1220.1	1235.8	1389.9	1723.3	2360.0	3404.1	5704.4	10745.2	14223.2	12377.3	11781.4
57.5°	885.2	894.6	993.7	1242.1	1789.3	2761.0	4948.1	10594.3	15866.3	14449.6	13699.6
60°	717.0	720.1	750.0	860.1	1243.7	2034.6	4034.6	10075.4	17649.3	17121.0	16176.0
62.5°	650.9	650.9	658.8	688.7	841.2	1342.8	2929.2	8999.9	19561.2	20496.7	19231.0
65°	605.3	605.3	608.5	622.6	663.5	855.3	1849.0	7248.4	21172.8	24451.1	22850.5
67.5°	564.5	566.0	564.5	569.2	592.8	632.1	1072.3	5006.3	22040.8	28548.6	26820.6
70°	522.0	525.2	517.3	517.3	536.2	537.7	671.4	2745.3	21320.6	31982.5	31528.1
72.5°	471.7	476.4	463.8	460.7	474.8	468.6	504.7	1317.6	18304.9	33007.7	34202.6
75°	427.7	434.0	405.7	397.8	397.8	393.1	410.4	676.1	11880.4	26925.9	28800.1
77.5°	388.4	400.9	355.3	330.2	323.9	309.7	334.9	413.5	5196.5	12641.4	12378.9
80°	320.8	338.0	292.5	262.6	251.6	235.8	264.1	289.3	1545.6	2935.5	2811.3
82.5°	239.0	246.9	207.5	187.1	177.7	166.7	198.1	201.3	503.1	1039.3	1174.5
85°	152.5	155.7	127.4	110.1	105.3	100.6	125.8	110.1	191.8	764.1	1110.1
87.5°	53.5	61.3	48.7	44.0	47.2	39.3	58.2	33.0	53.5	539.3	668.2
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)