

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: P885095

Luminaire Tested: **NAV-SB6B-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885095
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26944 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

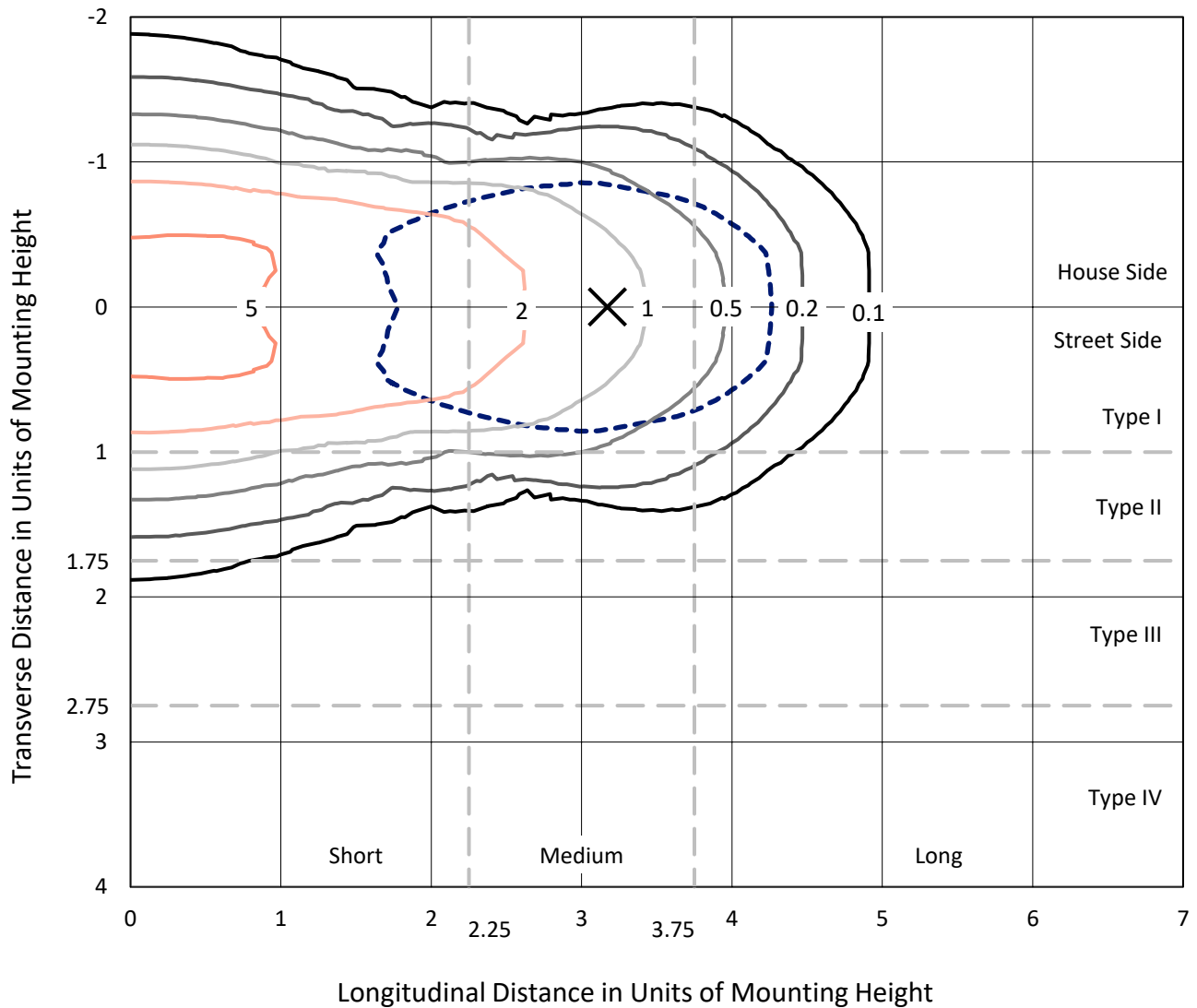
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

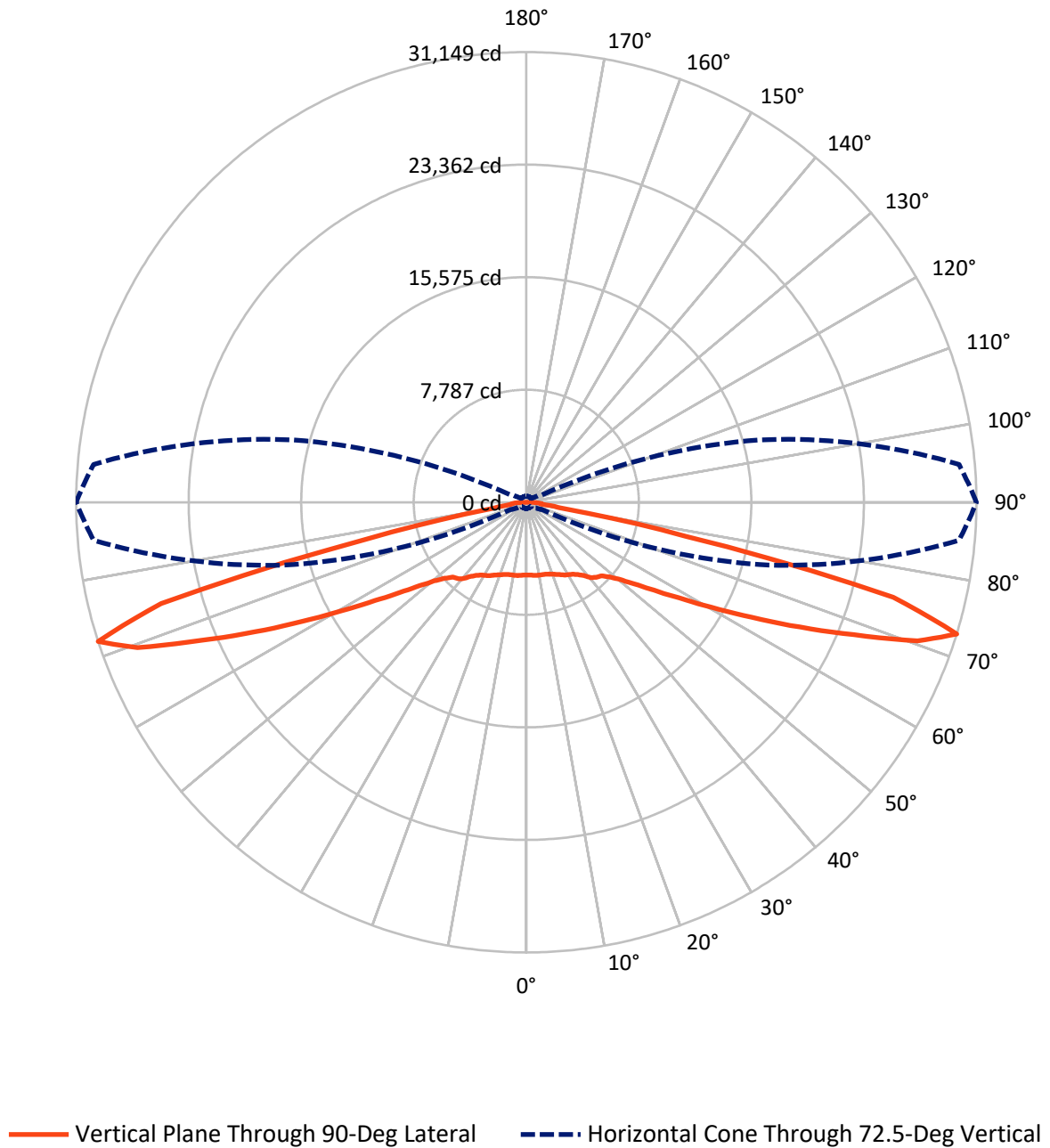
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	13472.0	0.0	13472.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13472.0	0.0	13472.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26944.0	0.0	26944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.2	1.8
10°-20°	1492.7	5.5
20°-30°	2488.9	9.2
30°-40°	3423.0	12.7
40°-50°	4180.4	15.5
50°-60°	4835.1	17.9
60°-70°	5765.0	21.4
70°-80°	4023.6	14.9
80°-90°	247.1	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°	26944.0	100.0
0°-180°	26944.0	100.0

Coefficient of Utilization



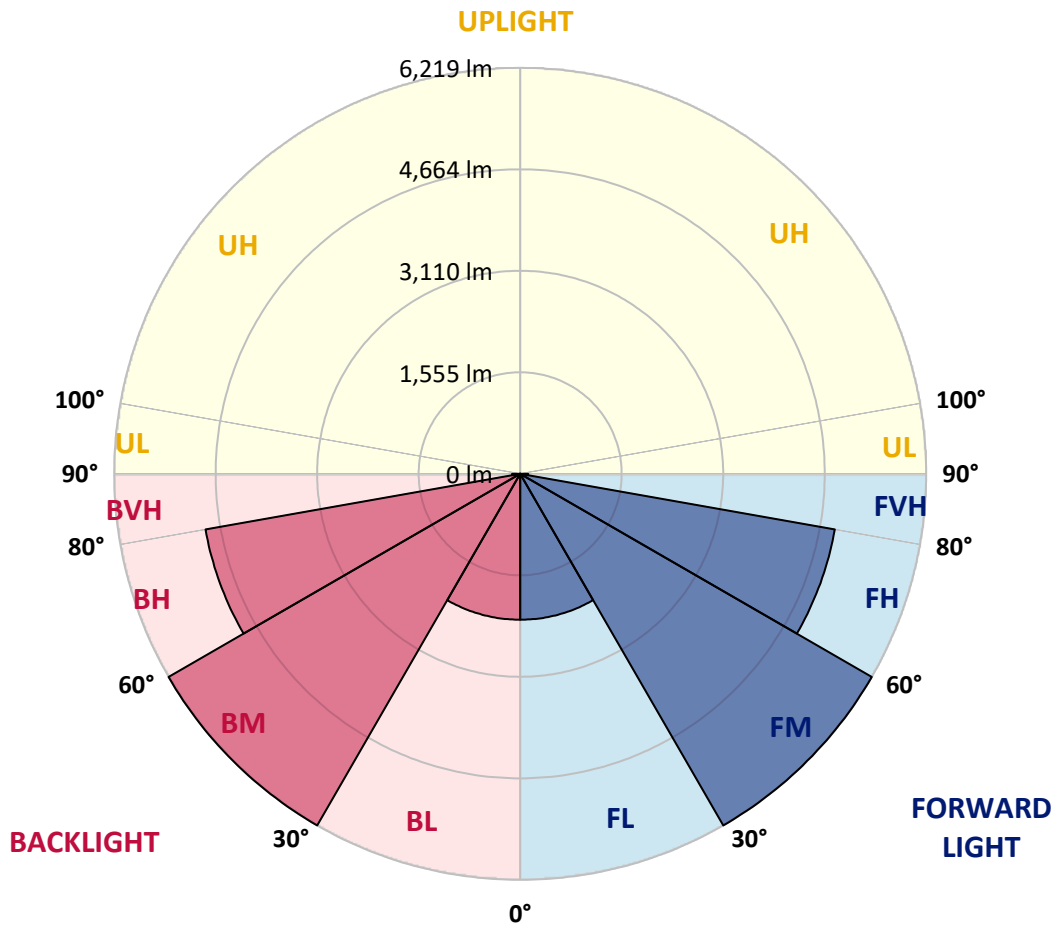
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.9	8.3			
FM (30°-60°)	6219.2	23.1			
FH (60°-80°)	4894.3	18.2			G2/5000
FVH (80°-90°)	123.6	0.5			G2/225
BL (0°-30°)	2234.9	8.3	B3/2500		
BM (30°-60°)	6219.2	23.1	B4/8500		
BH (60°-80°)	4894.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	123.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5034.8	5034.8	5034.8	5034.8	5034.8	5034.8	5034.8	5034.8	5034.8	5034.8	5034.8
2.5°	5039.1	5044.8	5044.8	5040.5	5050.5	5041.9	5041.9	5037.6	5041.9	5037.6	5037.6
5°	5064.8	5072.0	5074.9	5073.4	5086.3	5079.2	5079.2	5073.4	5074.9	5070.6	5070.6
7.5°	5113.5	5123.6	5129.3	5136.4	5155.1	5146.5	5140.7	5123.6	5116.4	5104.9	5104.9
10°	5129.3	5140.7	5159.4	5196.6	5239.5	5241.0	5223.8	5180.8	5147.9	5122.1	5117.8
12.5°	5080.6	5096.3	5135.0	5210.9	5306.8	5345.5	5318.3	5246.7	5182.3	5136.4	5129.3
15°	5019.0	5036.2	5094.9	5209.5	5351.2	5441.4	5438.6	5344.1	5241.0	5169.4	5157.9
17.5°	4923.1	4940.3	5024.7	5185.1	5385.6	5534.5	5574.6	5477.2	5332.6	5236.7	5220.9
20°	4749.8	4765.6	4883.0	5107.8	5397.1	5633.3	5737.9	5651.9	5471.5	5341.2	5316.9
22.5°	4525.0	4549.3	4686.8	4974.6	5369.8	5736.4	5924.0	5865.3	5633.3	5452.9	5420.0
25°	4284.4	4310.2	4470.6	4811.4	5299.7	5810.9	6144.5	6107.3	5816.6	5591.8	5546.0
27.5°	4076.8	4104.0	4278.7	4649.6	5190.9	5839.5	6362.2	6380.8	6038.6	5745.0	5696.3
30°	3913.5	3939.3	4125.5	4519.3	5050.5	5810.9	6552.6	6681.5	6264.8	5878.2	5808.0
32.5°	3734.6	3767.5	3963.7	4360.3	4884.4	5742.2	6718.8	7006.6	6526.9	6021.4	5932.6
35°	3508.3	3538.4	3744.6	4142.7	4666.8	5631.9	6857.7	7367.4	6902.0	6239.0	6140.2
37.5°	3233.4	3262.0	3466.8	3870.6	4450.5	5477.2	6963.6	7774.1	7348.8	6552.6	6420.9
40°	2957.0	2984.2	3176.1	3567.0	4191.3	5279.6	7000.9	8172.2	7861.5	6983.7	6843.3
42.5°	2703.5	2727.9	2904.0	3267.7	3900.7	5027.6	6952.2	8518.7	8321.1	7284.4	7104.0
45°	2470.1	2491.6	2647.7	2987.1	3598.5	4721.2	6806.1	8891.0	8868.1	7499.2	7255.7
47.5°	2203.8	2225.3	2387.1	2715.0	3296.4	4361.7	6558.4	9257.6	9628.5	7986.0	7705.4
50°	1878.7	1897.3	2063.5	2401.4	2982.8	3979.4	6214.7	9545.4	10587.9	8723.5	8371.2
52.5°	1493.5	1513.6	1675.4	2013.3	2610.5	3568.4	5762.2	9733.0	11696.2	9800.3	9366.4
55°	1111.2	1125.5	1265.9	1569.4	2149.4	3100.2	5195.2	9786.0	12953.5	11272.4	10729.7
57.5°	806.2	814.8	905.0	1131.2	1629.6	2514.5	4506.4	9648.5	14449.9	13159.7	12476.7
60°	653.0	655.8	683.0	783.3	1132.7	1853.0	3674.4	9176.0	16073.7	15592.6	14732.0
62.5°	592.8	592.8	600.0	627.2	766.1	1222.9	2667.7	8196.5	17815.0	18667.0	17514.3
65°	551.3	551.3	554.2	567.1	604.3	779.0	1684.0	6601.3	19282.8	22268.4	20810.7
67.5°	514.1	515.5	514.1	518.4	539.8	575.6	976.6	4559.4	20073.2	26000.1	24426.4
70°	475.4	478.3	471.1	471.1	488.3	489.7	611.4	2500.2	19417.4	29127.5	28713.7
72.5°	429.6	433.9	422.4	419.6	432.5	426.7	459.7	1200.0	16670.9	30061.1	31149.4
75°	389.5	395.2	369.4	362.3	362.3	358.0	373.7	615.7	10819.9	24522.3	26229.2
77.5°	353.7	365.1	323.6	300.7	295.0	282.1	305.0	376.6	4732.6	11513.0	11273.8
80°	292.1	307.9	266.3	239.1	229.1	214.8	240.6	263.5	1407.6	2673.5	2560.3
82.5°	217.7	224.8	189.0	170.4	161.8	151.8	180.4	183.3	458.2	946.5	1069.7
85°	138.9	141.8	116.0	100.2	95.9	91.6	114.6	100.2	174.7	695.9	1011.0
87.5°	48.7	55.8	44.4	40.1	43.0	35.8	53.0	30.1	48.7	491.2	608.6
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)