

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: P885142

Luminaire Tested: **NAV-SB6B-750-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37273 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

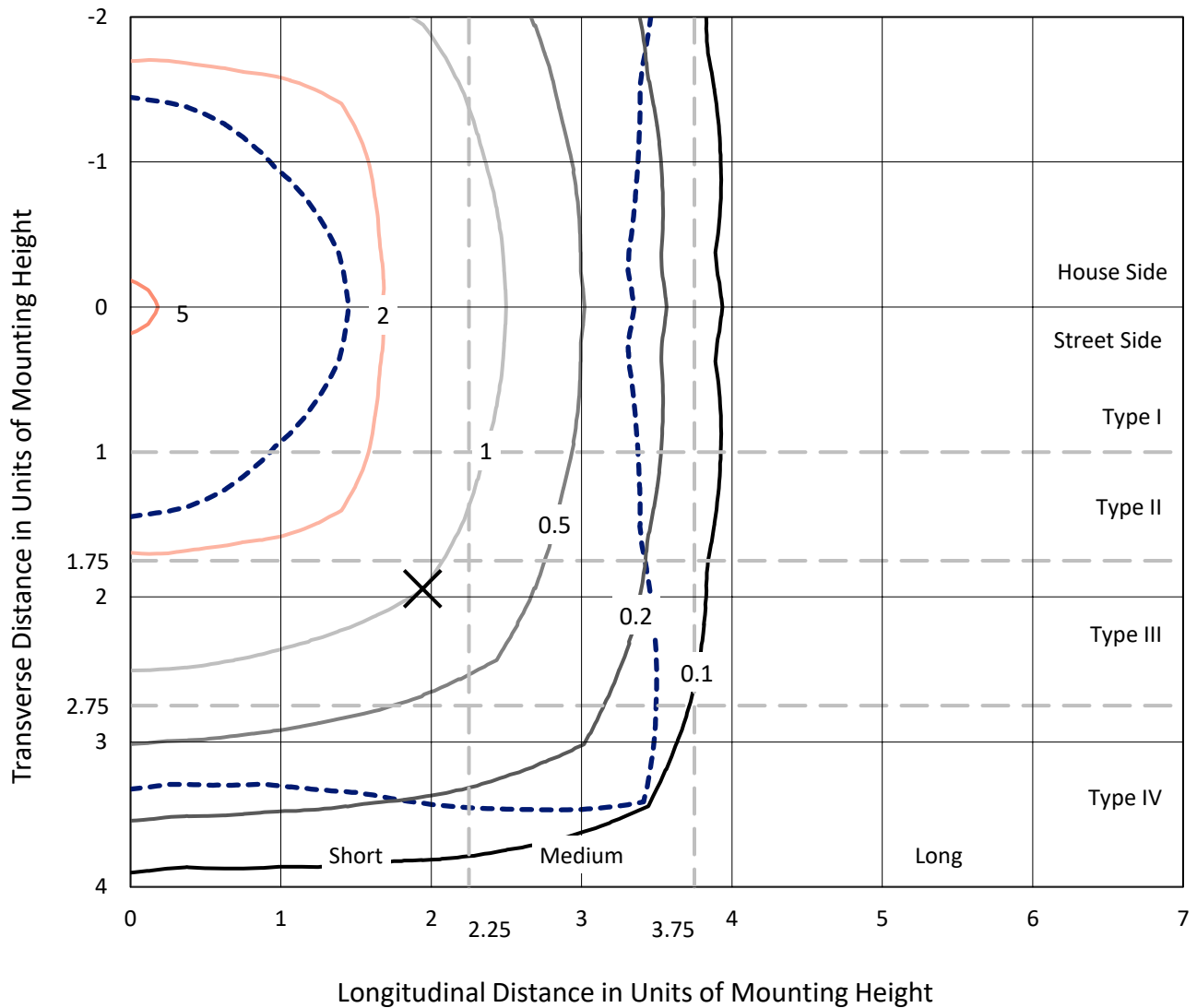
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

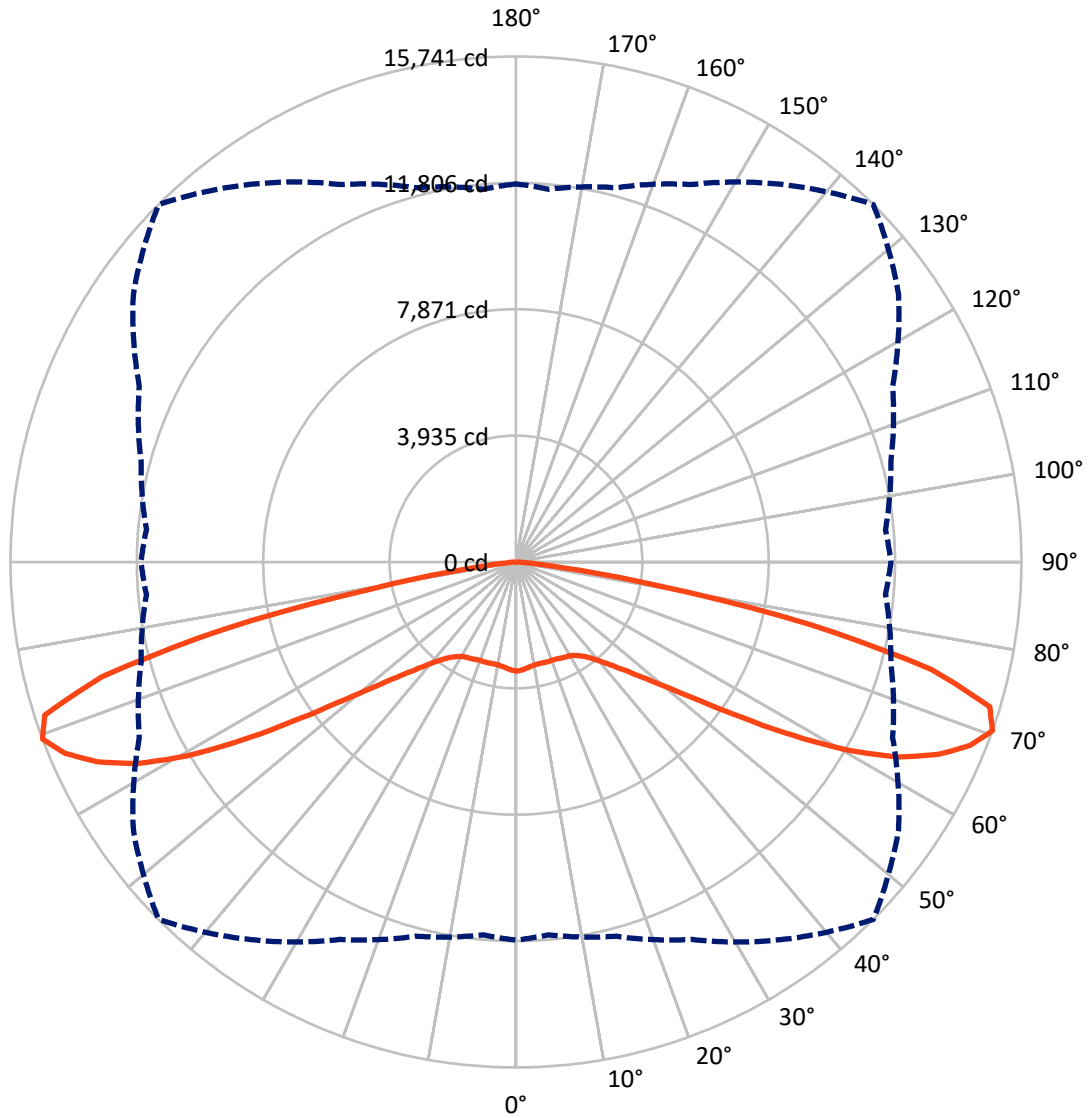
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P885142
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18636.5	0.0	18636.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18636.5	0.0	18636.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37273.0	0.0	37273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	0.8
10°-20°	928.7	2.5
20°-30°	1545.5	4.1
30°-40°	2337.2	6.3
40°-50°	3883.9	10.4
50°-60°	7328.8	19.7
60°-70°	12375.0	33.2
70°-80°	8131.6	21.8
80°-90°	426.0	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°	37273.0	100.0
0°-180°	37273.0	100.0



REPORT NUMBER: P885142

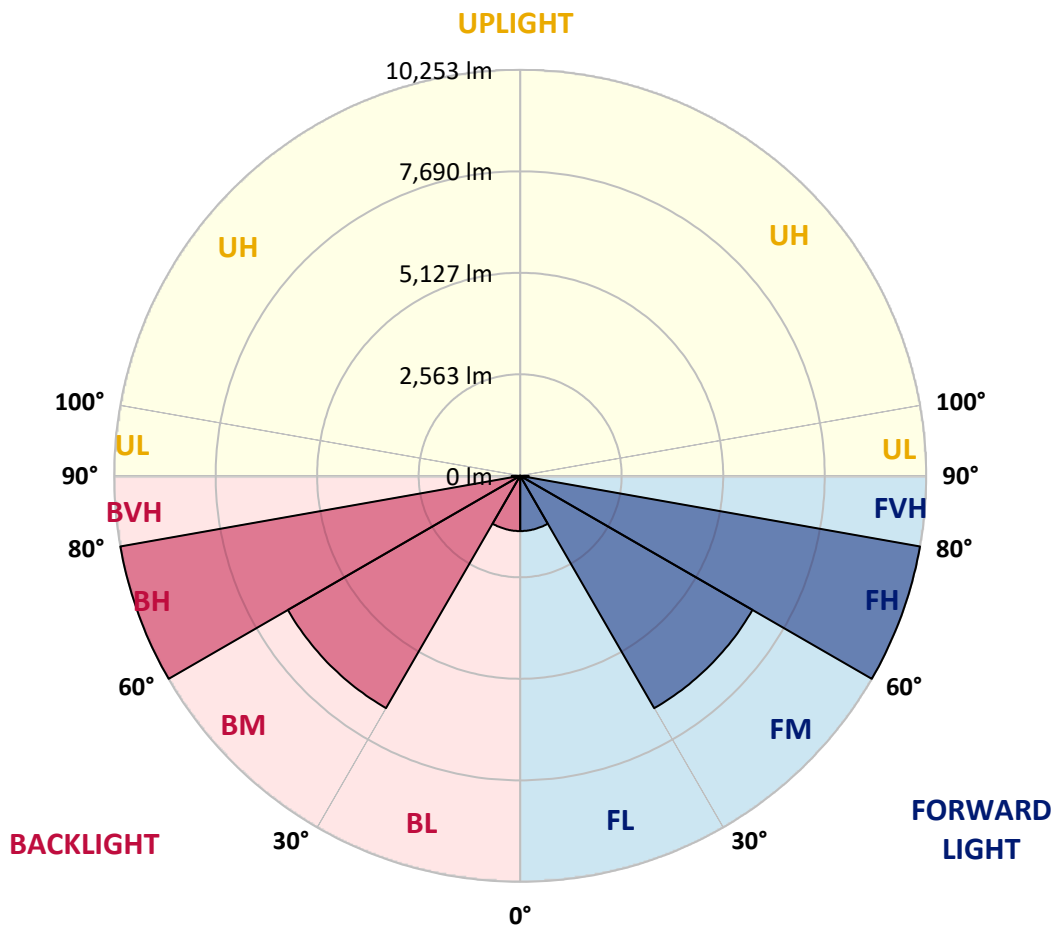
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.2	3.7			
FM (30°-60°)	6775.0	18.2			
FH (60°-80°)	10253.3	27.5			G4/12000
FVH (80°-90°)	213.0	0.6			G2/225
BL (0°-30°)	1395.2	3.7	B3/2500		
BM (30°-60°)	6775.0	18.2	B4/8500		
BH (60°-80°)	10253.3	27.5	B5		G4/12000
BVH (80°-90°)	213.0	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°	3400.0	3400.0	3400.0	3400.0	3400.0	3400.0	3400.0	3400.0	3400.0	3400.0	3400.0
2.5°	3378.7	3388.4	3384.5	3376.8	3376.8	3371.0	3376.8	3380.7	3386.5	3390.4	3388.4
5°	3334.2	3341.9	3340.0	3334.2	3336.1	3330.3	3334.2	3340.0	3343.9	3345.8	3345.8
7.5°	3295.4	3303.2	3299.3	3289.6	3289.6	3283.8	3285.7	3291.6	3297.4	3299.3	3299.3
10°	3285.7	3293.5	3281.9	3266.4	3260.6	3252.8	3254.7	3260.6	3272.2	3278.0	3278.0
12.5°	3289.6	3295.4	3283.8	3260.6	3254.7	3247.0	3247.0	3252.8	3268.3	3276.1	3278.0
15°	3301.2	3307.1	3289.6	3264.4	3258.6	3252.8	3250.9	3258.6	3276.1	3289.6	3291.6
17.5°	3322.6	3328.4	3301.2	3266.4	3258.6	3260.6	3258.6	3264.4	3291.6	3316.7	3316.7
20°	3341.9	3345.8	3309.0	3266.4	3258.6	3260.6	3258.6	3270.2	3305.1	3340.0	3341.9
22.5°	3347.7	3351.6	3316.7	3279.9	3274.1	3276.1	3274.1	3285.7	3318.7	3353.6	3353.6
25°	3349.7	3355.5	3328.4	3299.3	3309.0	3312.9	3309.0	3310.9	3336.1	3367.1	3365.2
27.5°	3378.7	3386.5	3361.3	3336.1	3341.9	3340.0	3345.8	3351.6	3371.0	3402.0	3394.2
30°	3438.8	3444.6	3423.3	3398.1	3394.2	3380.7	3398.1	3417.5	3438.8	3465.9	3460.1
32.5°	3537.6	3549.2	3522.1	3495.0	3477.5	3469.8	3483.4	3516.3	3545.3	3574.4	3562.8
35°	3702.3	3710.0	3684.8	3634.5	3603.5	3603.5	3615.1	3657.7	3704.2	3741.0	3727.5
37.5°	3934.8	3944.4	3899.9	3839.8	3793.3	3793.3	3808.8	3853.4	3923.1	3975.4	3956.1
40°	4217.6	4231.2	4175.0	4113.0	4068.4	4060.7	4080.1	4130.4	4196.3	4262.2	4240.9
42.5°	4558.6	4574.1	4500.5	4446.2	4411.3	4411.3	4421.0	4467.5	4527.6	4609.0	4603.1
45°	4994.5	5021.6	4920.9	4866.6	4833.7	4841.4	4847.2	4887.9	4942.2	5035.2	5031.3
47.5°	5513.7	5540.8	5434.3	5378.1	5372.3	5409.1	5385.8	5414.9	5444.0	5550.5	5519.5
50°	6102.7	6149.1	6075.5	6071.7	6083.3	6151.1	6096.8	6112.3	6079.4	6147.2	6106.5
52.5°	6823.3	6891.2	6877.6	6900.8	7030.6	7170.1	7046.1	6991.9	6867.9	6889.2	6817.5
55°	7697.1	7799.8	7819.1	7958.6	8253.1	8537.9	8274.4	8055.5	7792.0	7743.6	7668.0
57.5°	8690.9	8772.3	8865.3	9150.1	9700.3	10206.0	9700.3	9216.0	8801.4	8702.6	8632.8
60°	9760.4	9861.1	9950.2	10370.6	11188.2	11899.2	11172.7	10403.6	9855.3	9721.6	9605.4
62.5°	10909.2	11039.0	11101.0	11567.9	12521.1	13369.6	12534.7	11602.8	10994.5	10851.1	10734.9
65°	12011.6	12118.1	12187.9	12685.8	13596.3	14446.8	13658.3	12740.0	12114.2	11926.3	11833.3
67.5°	12525.0	12583.1	12753.6	13317.3	14278.3	15248.9	14441.0	13377.4	12678.0	12348.7	12352.5
70°	11773.3	11655.1	12065.8	12968.6	14359.6	15741.0	14545.6	12941.5	12085.2	11550.5	11678.3
72.5°	9097.8	8894.4	9607.3	11151.4	13429.7	15427.1	13522.7	11238.6	10051.0	8966.1	9235.3
75°	4949.9	4719.4	5703.6	7656.4	10709.7	13371.6	10955.7	7875.3	6350.6	4913.1	5232.8
77.5°	1396.8	1309.6	2104.0	3704.2	6441.7	9388.4	6689.7	3785.6	2495.3	1480.1	1644.8
80°	428.2	414.6	561.8	1115.9	2735.5	4496.6	2629.0	1129.5	714.9	451.4	476.6
82.5°	253.8	232.5	279.0	406.8	697.4	1412.3	678.1	424.3	341.0	228.6	248.0
85°	145.3	135.6	164.7	197.6	234.4	300.3	195.7	201.5	182.1	122.1	127.9
87.5°	60.1	54.2	63.9	62.0	54.2	69.7	52.3	62.0	73.6	48.4	44.6
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)