

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: P884612

Luminaire Tested: **NAV-SB5C-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884612
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-SB5C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38440 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

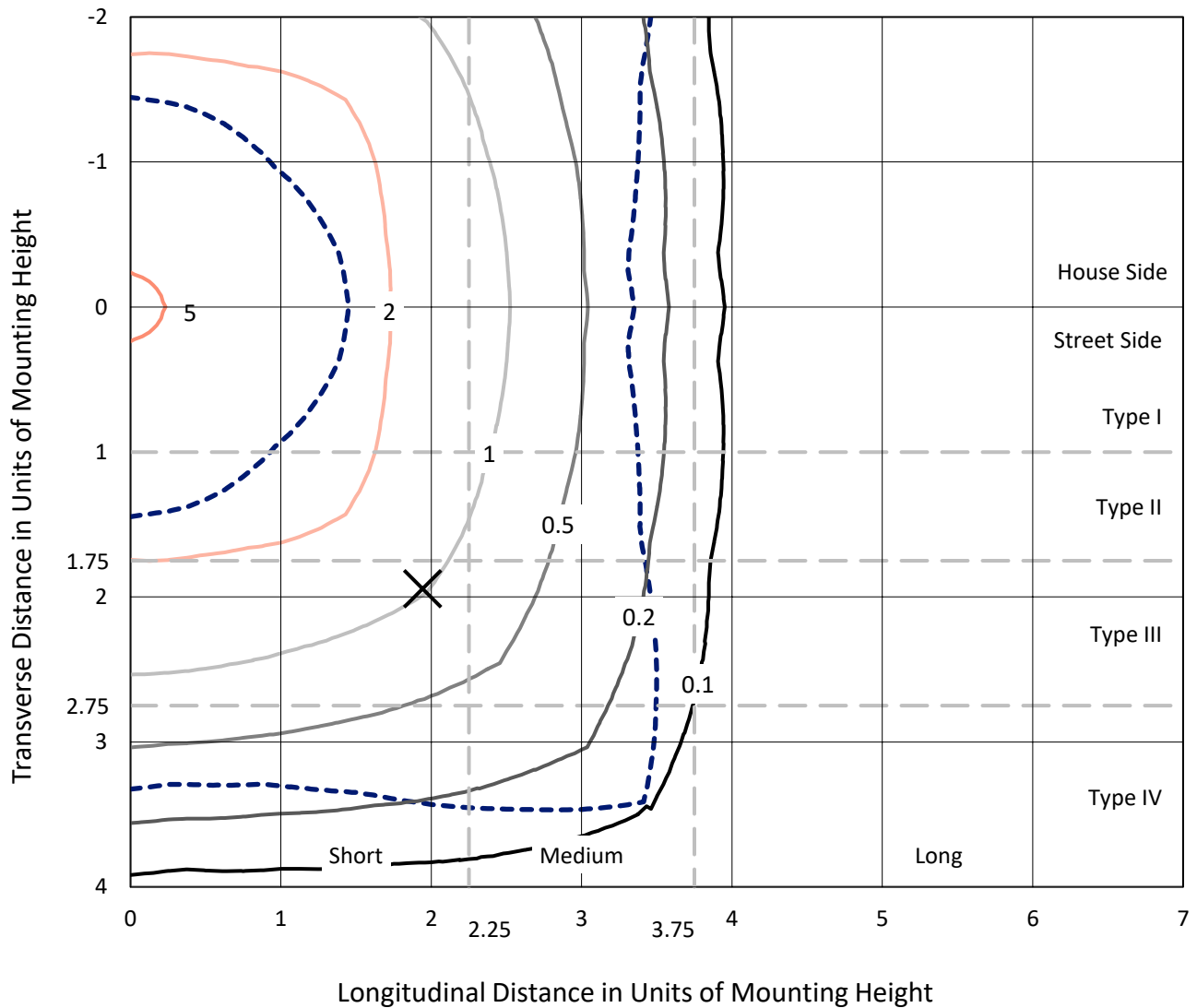
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

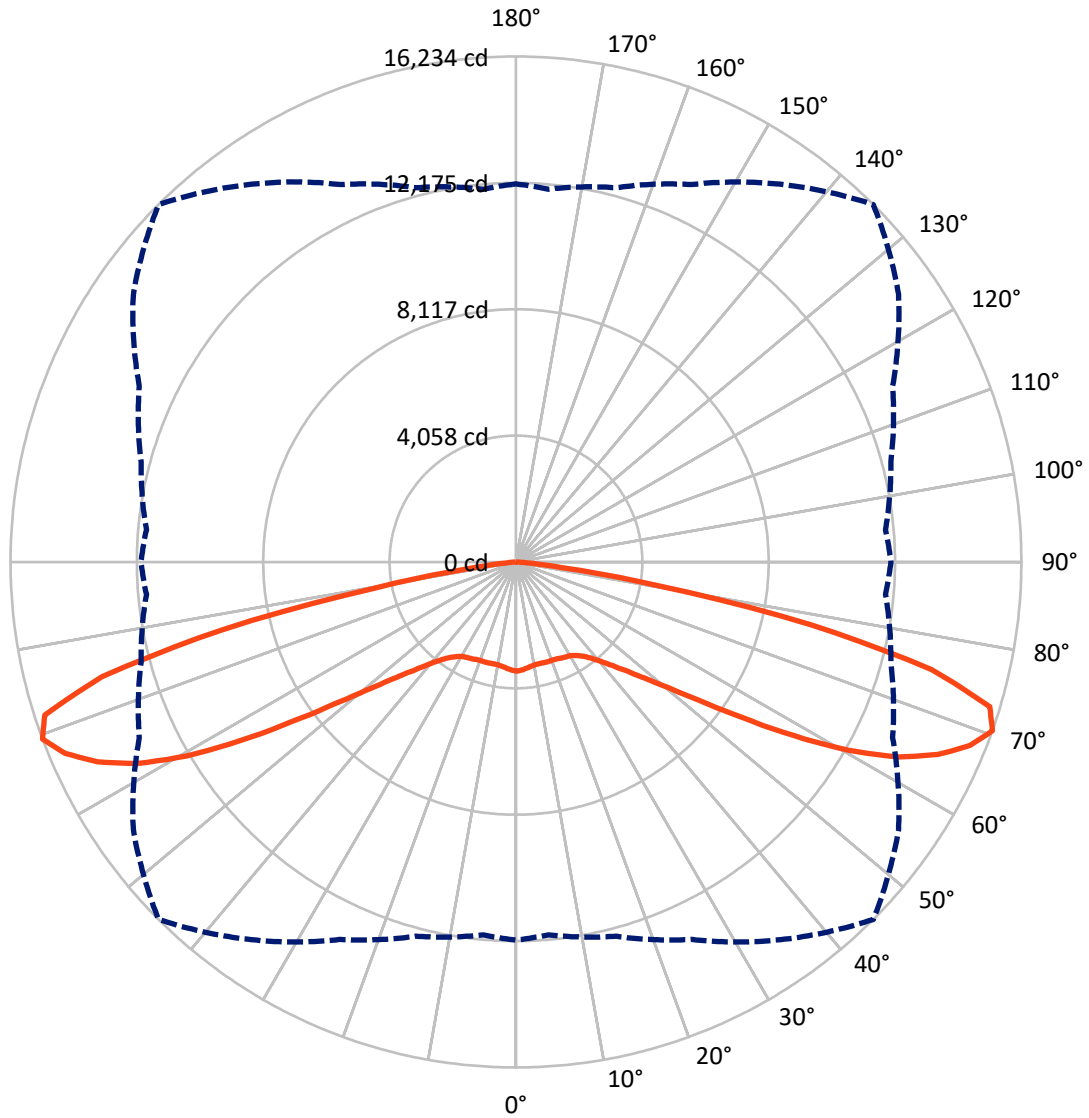
✕ Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19220.0	0.0	19220.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19220.0	0.0	19220.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38440.0	0.0	38440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	0.8
10°-20°	957.8	2.5
20°-30°	1593.9	4.1
30°-40°	2410.4	6.3
40°-50°	4005.5	10.4
50°-60°	7558.3	19.7
60°-70°	12762.4	33.2
70°-80°	8386.2	21.8
80°-90°	439.4	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°	38440.0	100.0
0°-180°	38440.0	100.0

Coefficient of Utilization



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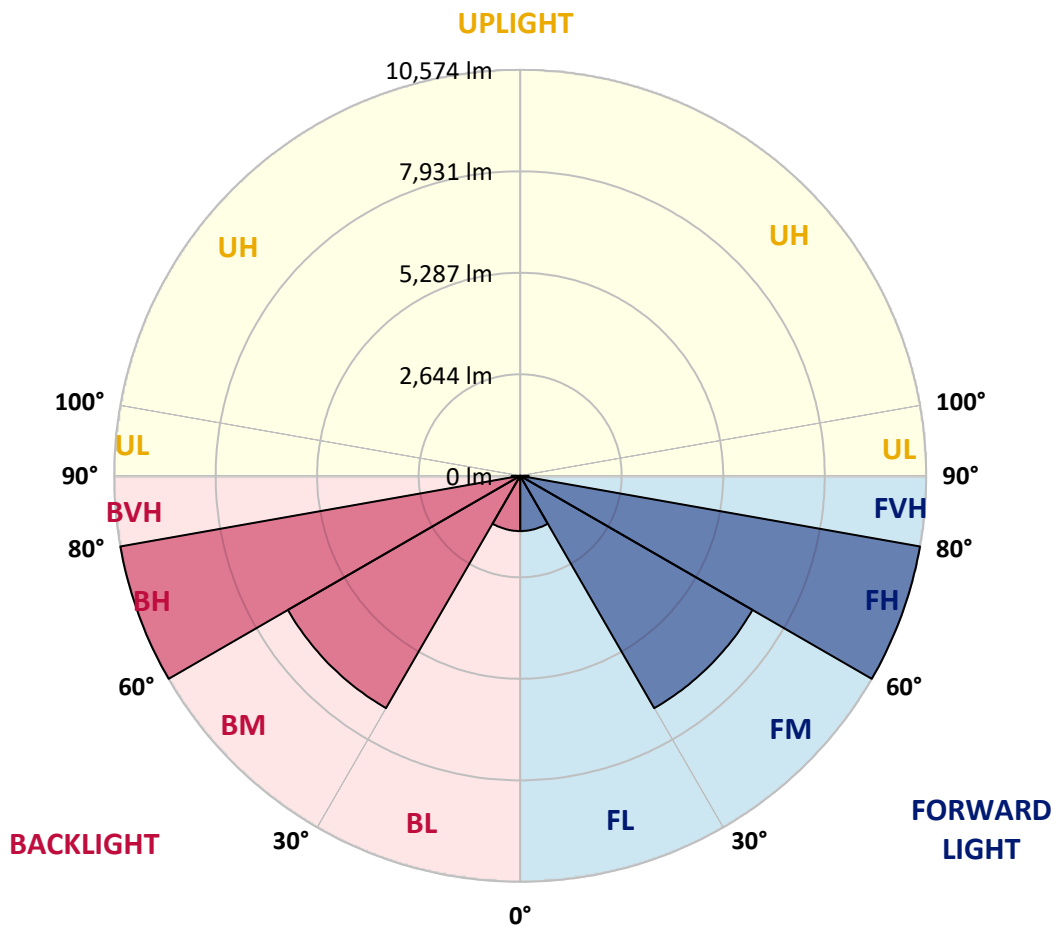
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.9	3.7			
FM (30°-60°)	6987.1	18.2			
FH (60°-80°)	10574.3	27.5			G4/12000
FVH (80°-90°)	219.7	0.6			G2/225
BL (0°-30°)	1438.9	3.7	B3/2500		
BM (30°-60°)	6987.1	18.2	B4/8500		
BH (60°-80°)	10574.3	27.5	B5		G4/12000
BVH (80°-90°)	219.7	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°	3506.5	3506.5	3506.5	3506.5	3506.5	3506.5	3506.5	3506.5	3506.5	3506.5	3506.5
2.5°	3484.5	3494.5	3490.5	3482.5	3482.5	3476.5	3482.5	3486.5	3492.5	3496.5	3494.5
5°	3438.6	3446.6	3444.6	3438.6	3440.6	3434.6	3438.6	3444.6	3448.6	3450.6	3450.6
7.5°	3398.6	3406.6	3402.6	3392.6	3392.6	3386.6	3388.6	3394.6	3400.6	3402.6	3402.6
10°	3388.6	3396.6	3384.6	3368.6	3362.6	3354.7	3356.7	3362.6	3374.6	3380.6	3380.6
12.5°	3392.6	3398.6	3386.6	3362.6	3356.7	3348.7	3348.7	3354.7	3370.6	3378.6	3380.6
15°	3404.6	3410.6	3392.6	3366.6	3360.6	3354.7	3352.7	3360.6	3378.6	3392.6	3394.6
17.5°	3426.6	3432.6	3404.6	3368.6	3360.6	3362.6	3360.6	3366.6	3394.6	3420.6	3420.6
20°	3446.6	3450.6	3412.6	3368.6	3360.6	3362.6	3360.6	3372.6	3408.6	3444.6	3446.6
22.5°	3452.6	3456.6	3420.6	3382.6	3376.6	3378.6	3376.6	3388.6	3422.6	3458.5	3458.5
25°	3454.6	3460.5	3432.6	3402.6	3412.6	3416.6	3412.6	3414.6	3440.6	3472.5	3470.5
27.5°	3484.5	3492.5	3466.5	3440.6	3446.6	3444.6	3450.6	3456.6	3476.5	3508.5	3500.5
30°	3546.5	3552.5	3530.5	3504.5	3500.5	3486.5	3504.5	3524.5	3546.5	3574.4	3568.4
32.5°	3648.4	3660.3	3632.4	3604.4	3586.4	3578.4	3592.4	3626.4	3656.4	3686.3	3674.3
35°	3818.2	3826.2	3800.2	3748.3	3716.3	3716.3	3728.3	3772.2	3820.2	3858.2	3844.2
37.5°	4058.0	4067.9	4022.0	3960.0	3912.1	3912.1	3928.1	3974.0	4046.0	4099.9	4079.9
40°	4349.7	4363.6	4305.7	4241.8	4195.8	4187.8	4207.8	4259.8	4327.7	4395.6	4373.6
42.5°	4701.3	4717.3	4641.4	4585.4	4549.5	4549.5	4559.5	4607.4	4669.3	4753.3	4747.3
45°	5150.9	5178.8	5074.9	5019.0	4985.0	4993.0	4999.0	5041.0	5096.9	5192.8	5188.8
47.5°	5686.3	5714.3	5604.4	5546.5	5540.5	5578.4	5554.5	5584.4	5614.4	5724.3	5692.3
50°	6293.7	6341.7	6265.7	6261.8	6273.7	6343.7	6287.7	6303.7	6269.7	6339.7	6297.7
52.5°	7037.0	7106.9	7092.9	7116.9	7250.8	7394.6	7266.8	7210.8	7082.9	7104.9	7031.0
55°	7938.1	8044.0	8064.0	8207.8	8511.5	8805.2	8533.5	8307.7	8036.0	7986.0	7908.1
57.5°	8963.1	9047.0	9142.9	9436.6	10004.0	10525.5	10004.0	9504.5	9076.9	8975.0	8903.1
60°	10066.0	10169.9	10261.8	10695.3	11538.5	12271.8	11522.5	10729.3	10163.9	10026.0	9906.1
62.5°	11250.8	11384.6	11448.6	11930.1	12913.1	13788.2	12927.1	11966.1	11338.7	11190.8	11071.0
65°	12387.6	12497.5	12569.5	13082.9	14022.0	14899.1	14085.9	13138.9	12493.5	12299.7	12203.8
67.5°	12917.1	12977.1	13152.9	13734.3	14725.3	15726.3	14893.1	13796.2	13075.0	12735.3	12739.3
70°	12141.9	12020.0	12443.6	13374.7	14809.2	16233.8	15001.0	13346.7	12463.6	11912.1	12044.0
72.5°	9382.6	9172.8	9908.1	11500.5	13850.2	15910.1	13946.1	11590.4	10365.7	9246.8	9524.5
75°	5104.9	4867.1	5882.1	7896.1	11045.0	13790.2	11298.7	8121.9	6549.5	5066.9	5396.6
77.5°	1440.6	1350.7	2169.8	3820.2	6643.4	9682.3	6899.1	3904.1	2573.4	1526.5	1696.3
80°	441.6	427.6	579.4	1150.9	2821.2	4637.4	2711.3	1164.8	737.3	465.5	491.5
82.5°	261.7	239.8	287.7	419.6	719.3	1456.5	699.3	437.6	351.6	235.8	255.7
85°	149.9	139.9	169.8	203.8	241.8	309.7	201.8	207.8	187.8	125.9	131.9
87.5°	61.9	55.9	65.9	63.9	55.9	71.9	53.9	63.9	75.9	50.0	46.0
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)