

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: P885342

Luminaire Tested: **NAV-SB6C-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885342
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-SB6C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 40232 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

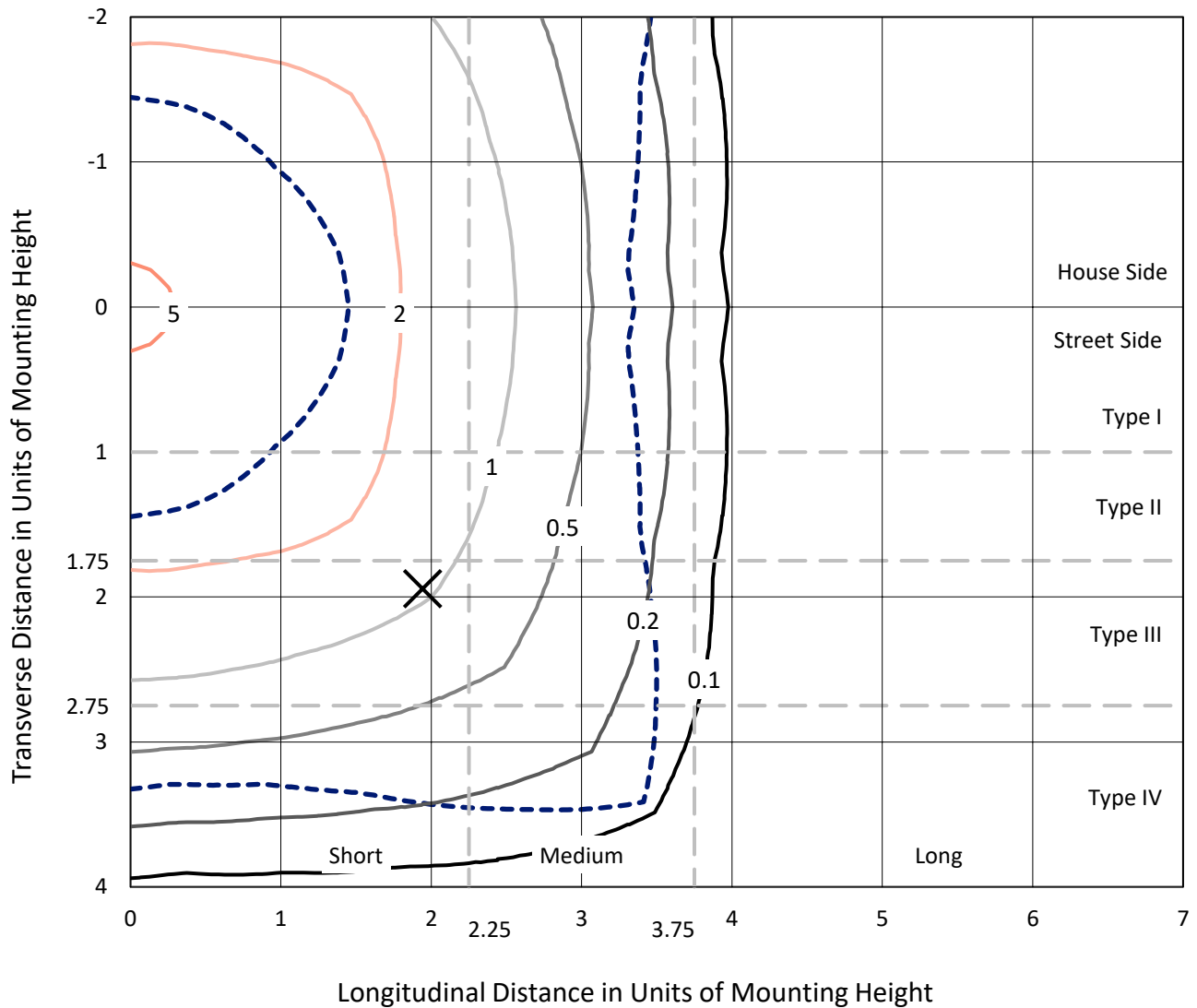
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

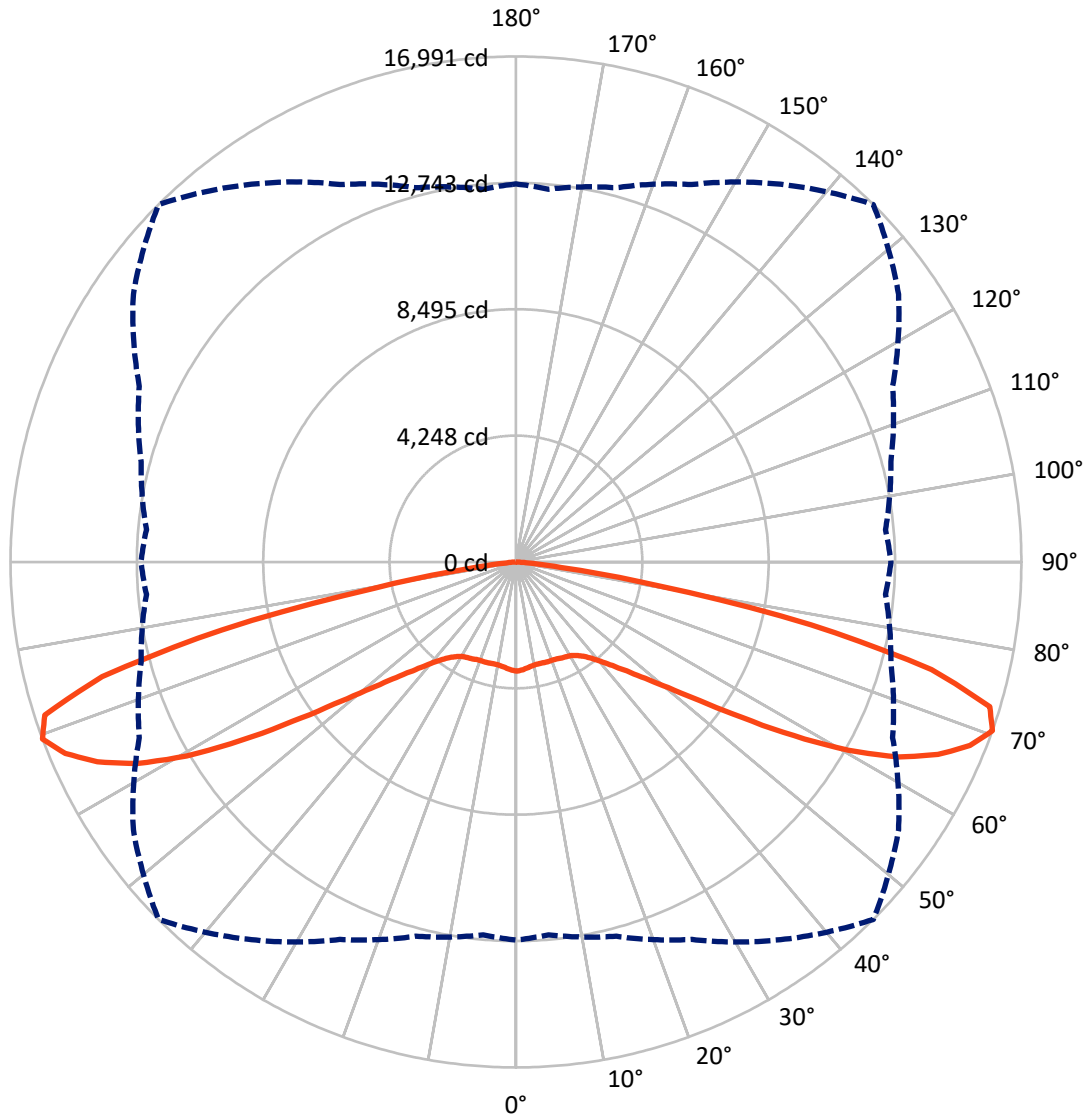
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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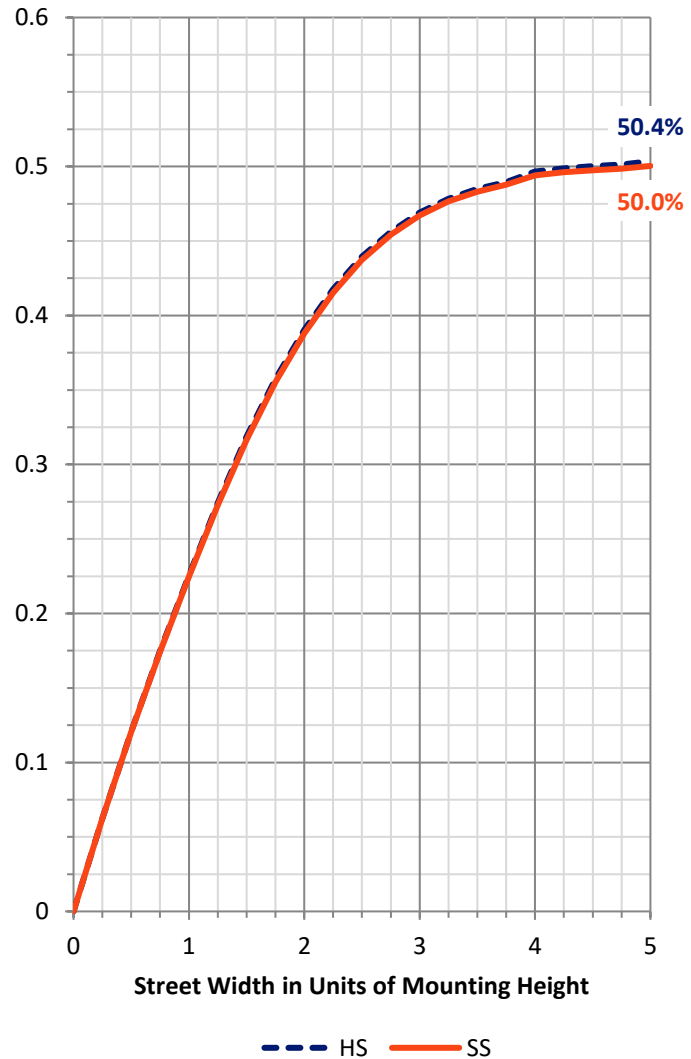
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20116.0	0.0	20116.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20116.0	0.0	20116.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40232.0	0.0	40232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	0.8
10°-20°	1002.4	2.5
20°-30°	1668.2	4.1
30°-40°	2522.8	6.3
40°-50°	4192.2	10.4
50°-60°	7910.6	19.7
60°-70°	13357.4	33.2
70°-80°	8777.2	21.8
80°-90°	459.8	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°	40232.0	100.0
0°-180°	40232.0	100.0



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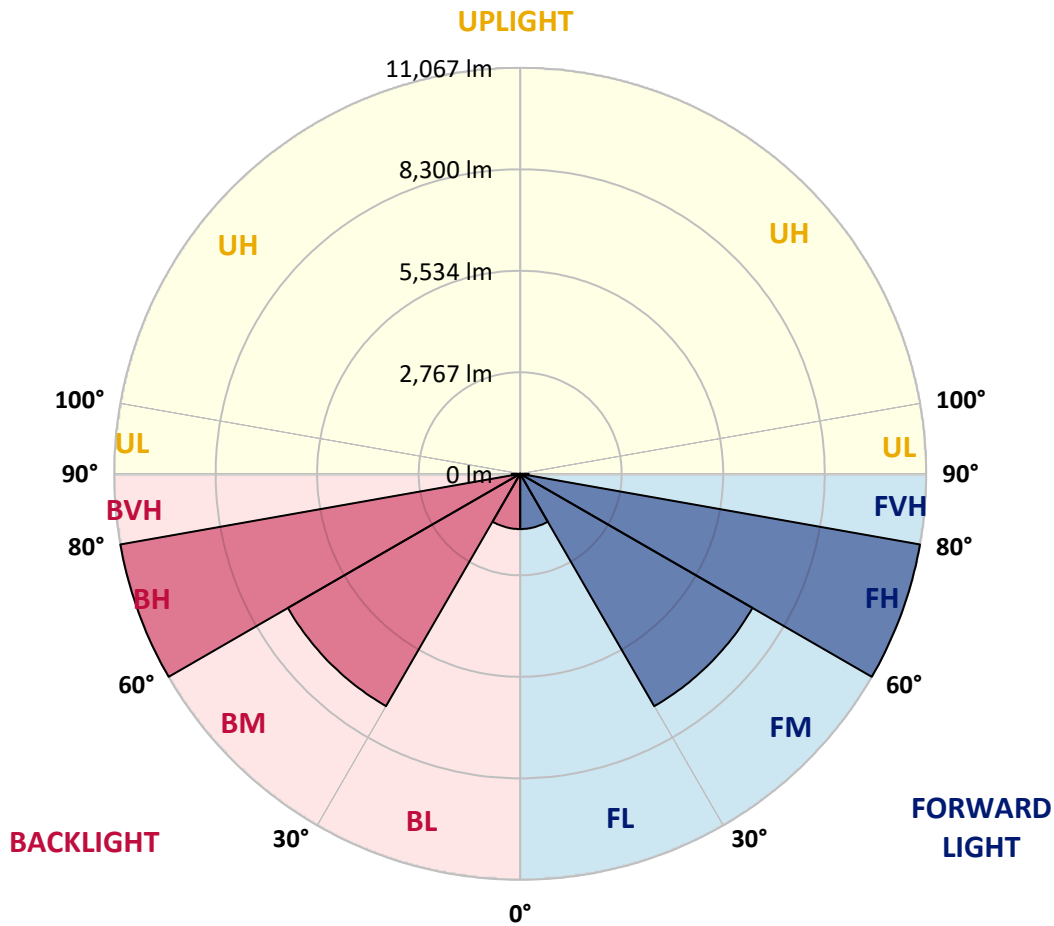
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.0	3.7			
FM (30°-60°)	7312.8	18.2			
FH (60°-80°)	11067.3	27.5			G4/12000
FVH (80°-90°)	229.9	0.6			G3/500
BL (0°-30°)	1506.0	3.7	B3/2500		
BM (30°-60°)	7312.8	18.2	B4/8500		
BH (60°-80°)	11067.3	27.5	B5		G4/12000
BVH (80°-90°)	229.9	0.6			G3/500
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°	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0
2.5°	3647.0	3657.4	3653.2	3644.9	3644.9	3638.6	3644.9	3649.1	3655.3	3659.5	3657.4
5°	3598.9	3607.2	3605.1	3598.9	3601.0	3594.7	3598.9	3605.1	3609.3	3611.4	3611.4
7.5°	3557.0	3565.4	3561.2	3550.8	3550.8	3544.5	3546.6	3552.9	3559.1	3561.2	3561.2
10°	3546.6	3555.0	3542.4	3525.7	3519.4	3511.0	3513.1	3519.4	3532.0	3538.2	3538.2
12.5°	3550.8	3557.0	3544.5	3519.4	3513.1	3504.8	3504.8	3511.0	3527.8	3536.1	3538.2
15°	3563.3	3569.6	3550.8	3523.6	3517.3	3511.0	3508.9	3517.3	3536.1	3550.8	3552.9
17.5°	3586.3	3592.6	3563.3	3525.7	3517.3	3519.4	3517.3	3523.6	3552.9	3580.0	3580.0
20°	3607.2	3611.4	3571.7	3525.7	3517.3	3519.4	3517.3	3529.9	3567.5	3605.1	3607.2
22.5°	3613.5	3617.7	3580.0	3540.3	3534.0	3536.1	3534.0	3546.6	3582.1	3619.8	3619.8
25°	3615.6	3621.9	3592.6	3561.2	3571.7	3575.9	3571.7	3573.8	3601.0	3634.4	3632.3
27.5°	3647.0	3655.3	3628.1	3601.0	3607.2	3605.1	3611.4	3617.7	3638.6	3672.1	3663.7
30°	3711.8	3718.1	3695.1	3667.9	3663.7	3649.1	3667.9	3688.8	3711.8	3741.1	3734.8
32.5°	3818.4	3831.0	3801.7	3772.4	3753.6	3745.2	3759.9	3795.4	3826.8	3858.2	3845.6
35°	3996.2	4004.6	3977.4	3923.0	3889.5	3889.5	3902.1	3948.1	3998.3	4038.0	4023.4
37.5°	4247.1	4257.6	4209.5	4144.7	4094.5	4094.5	4111.2	4159.3	4234.6	4291.0	4270.1
40°	4552.4	4567.1	4506.4	4439.5	4391.4	4383.1	4404.0	4458.3	4529.4	4600.5	4577.5
42.5°	4920.5	4937.2	4857.7	4799.2	4761.5	4761.5	4772.0	4822.2	4887.0	4974.8	4968.6
45°	5391.0	5420.3	5311.5	5253.0	5217.4	5225.8	5232.1	5276.0	5334.5	5434.9	5430.7
47.5°	5951.4	5980.7	5865.7	5805.0	5798.8	5838.5	5813.4	5844.8	5876.1	5991.1	5957.7
50°	6587.1	6637.3	6557.8	6553.7	6566.2	6639.4	6580.8	6597.6	6562.0	6635.2	6591.3
52.5°	7365.0	7438.2	7423.6	7448.7	7588.8	7739.3	7605.5	7547.0	7413.1	7436.1	7358.8
55°	8308.1	8419.0	8439.9	8590.4	8908.3	9215.7	8931.3	8695.0	8410.6	8358.3	8276.8
57.5°	9380.9	9468.7	9569.1	9876.5	10470.4	11016.2	10470.4	9947.6	9500.1	9393.4	9318.2
60°	10535.2	10644.0	10740.1	11193.9	12076.4	12843.8	12059.7	11229.5	10637.7	10493.4	10367.9
62.5°	11775.3	11915.4	11982.3	12486.3	13515.1	14431.0	13529.7	12523.9	11867.3	11712.5	11587.1
65°	12965.1	13080.1	13155.4	13692.9	14675.7	15593.7	14742.6	13751.4	13076.0	12873.1	12772.7
67.5°	13519.3	13582.0	13766.0	14374.6	15411.8	16459.4	15587.4	14439.4	13684.5	13329.0	13333.2
70°	12707.9	12580.4	13023.7	13998.2	15499.6	16990.6	15700.4	13968.9	13044.6	12467.4	12605.5
72.5°	9820.0	9600.5	10370.0	12036.7	14495.9	16651.8	14596.2	12130.8	10848.9	9677.8	9968.5
75°	5342.9	5094.0	6156.3	8264.2	11559.9	14433.1	11825.5	8500.5	6854.8	5303.2	5648.2
77.5°	1507.7	1413.6	2271.0	3998.3	6953.1	10133.7	7220.7	4086.1	2693.4	1597.6	1775.4
80°	462.1	447.5	606.4	1204.5	2952.7	4853.6	2837.7	1219.1	771.6	487.2	514.4
82.5°	273.9	250.9	301.1	439.1	752.8	1524.4	731.9	458.0	368.0	246.8	267.7
85°	156.8	146.4	177.7	213.3	253.0	324.1	211.2	217.5	196.6	131.7	138.0
87.5°	64.8	58.6	69.0	66.9	58.6	75.3	56.5	66.9	79.5	52.3	48.1
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)