

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: P885352

Luminaire Tested: **NAV-SB6C-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885352
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-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 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: 38795 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

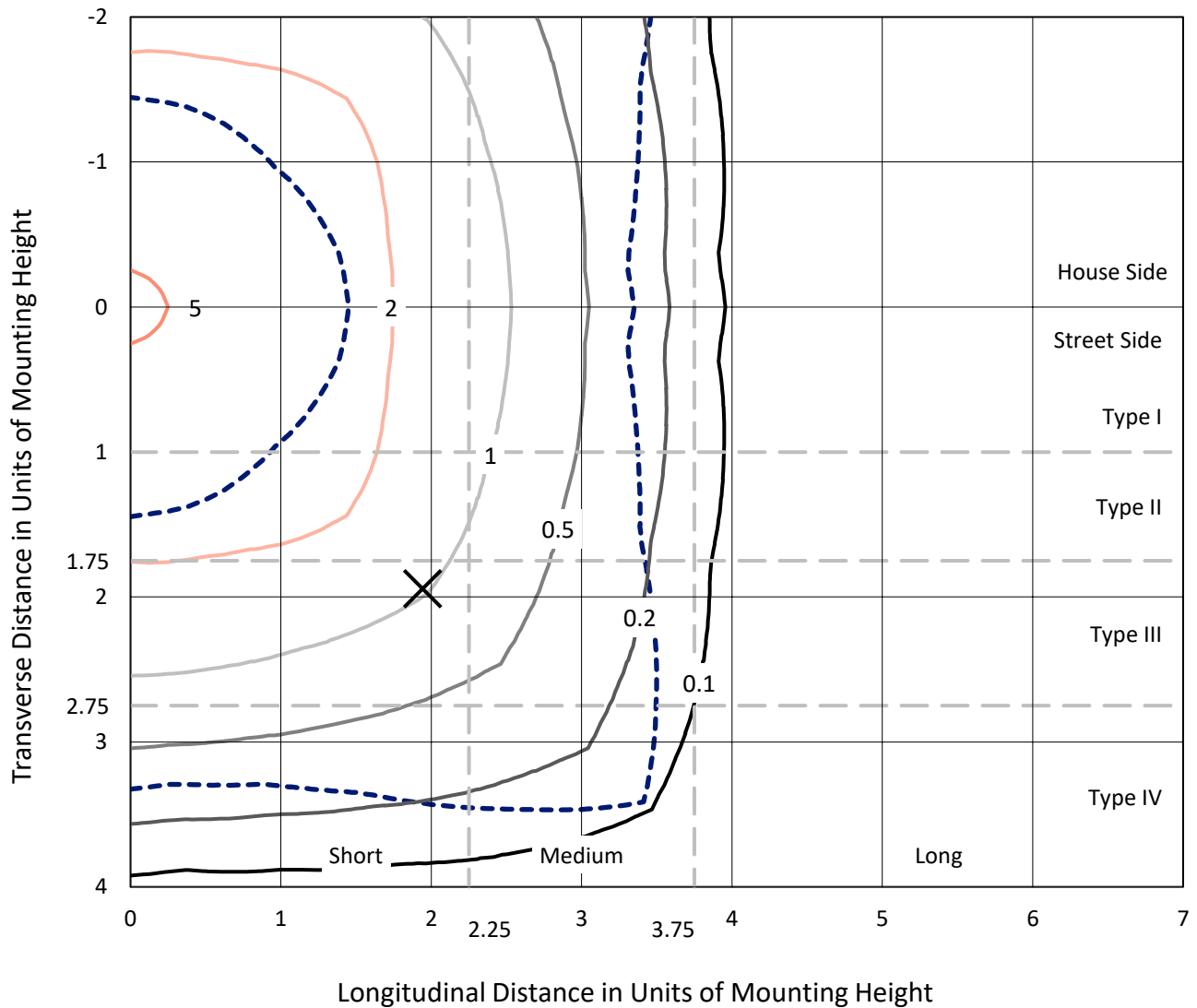
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

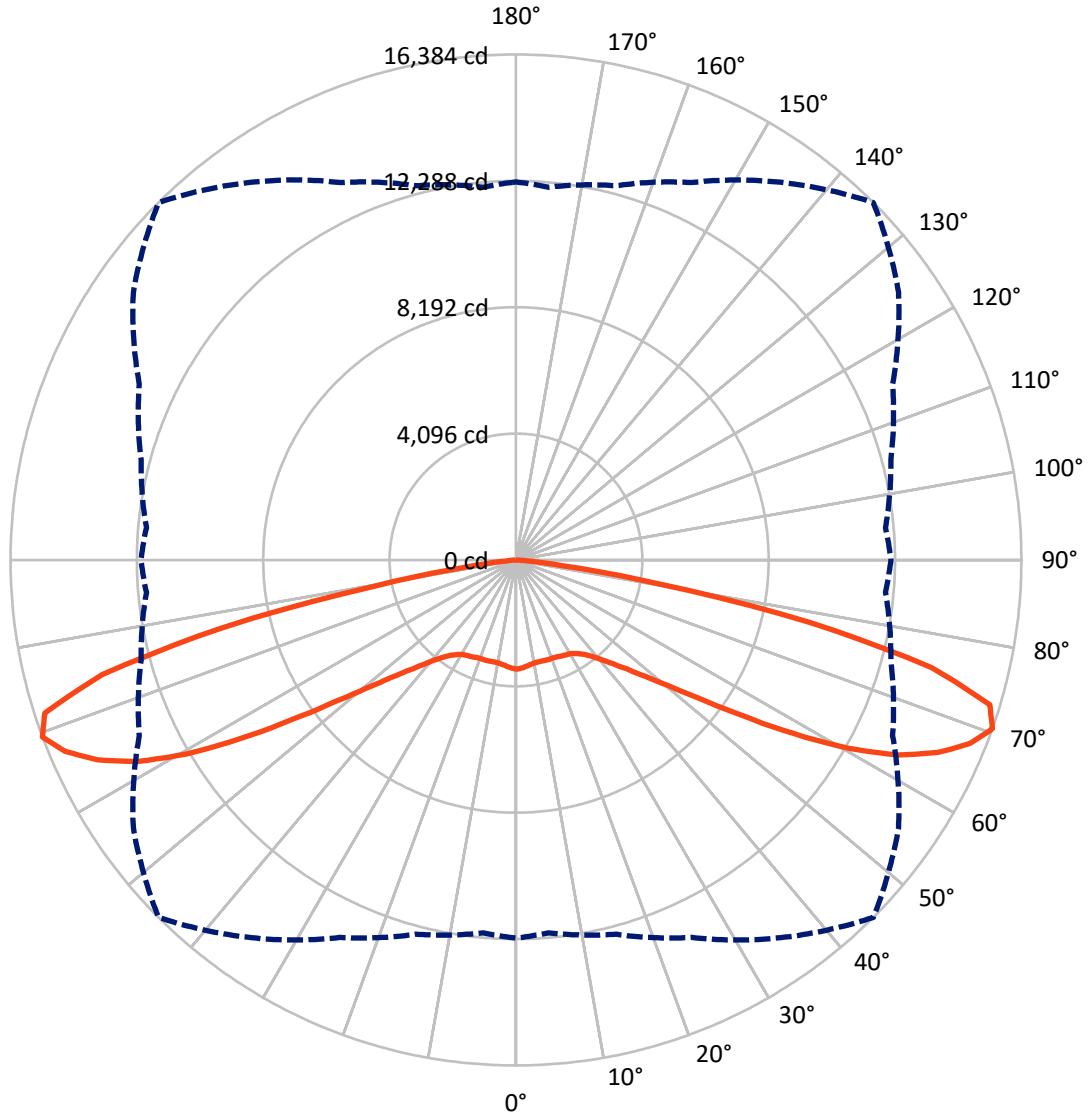
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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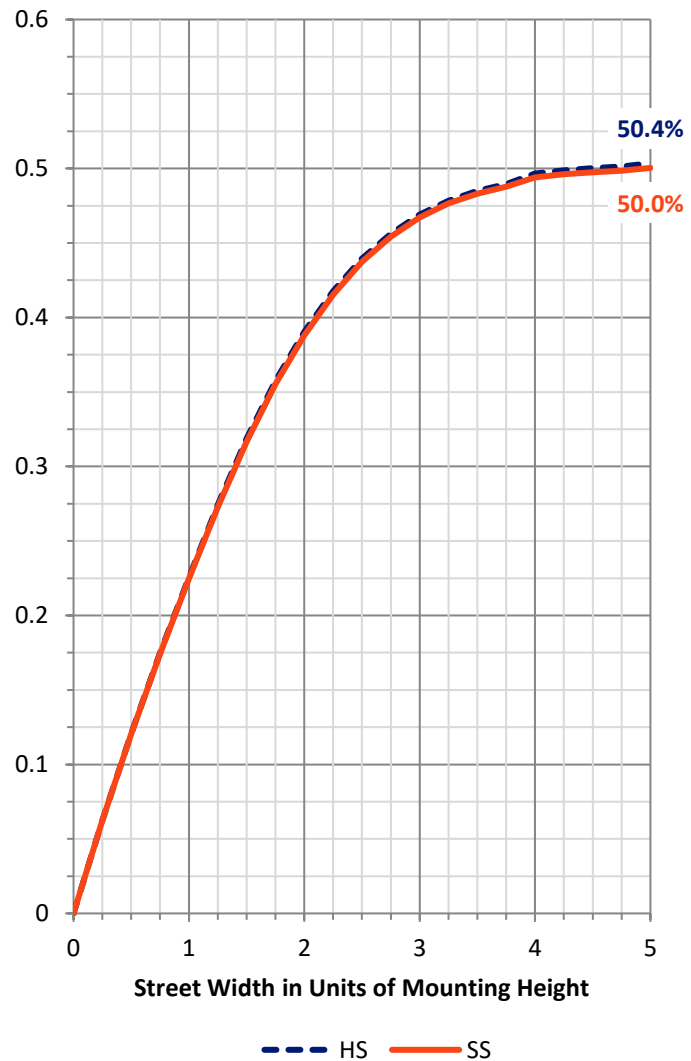
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19397.5	0.0	19397.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19397.5	0.0	19397.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38795.0	0.0	38795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	0.8
10°-20°	966.6	2.5
20°-30°	1608.6	4.1
30°-40°	2432.7	6.3
40°-50°	4042.5	10.4
50°-60°	7628.1	19.7
60°-70°	12880.3	33.2
70°-80°	8463.7	21.8
80°-90°	443.4	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°	38795.0	100.0
0°-180°	38795.0	100.0

Coefficient of Utilization



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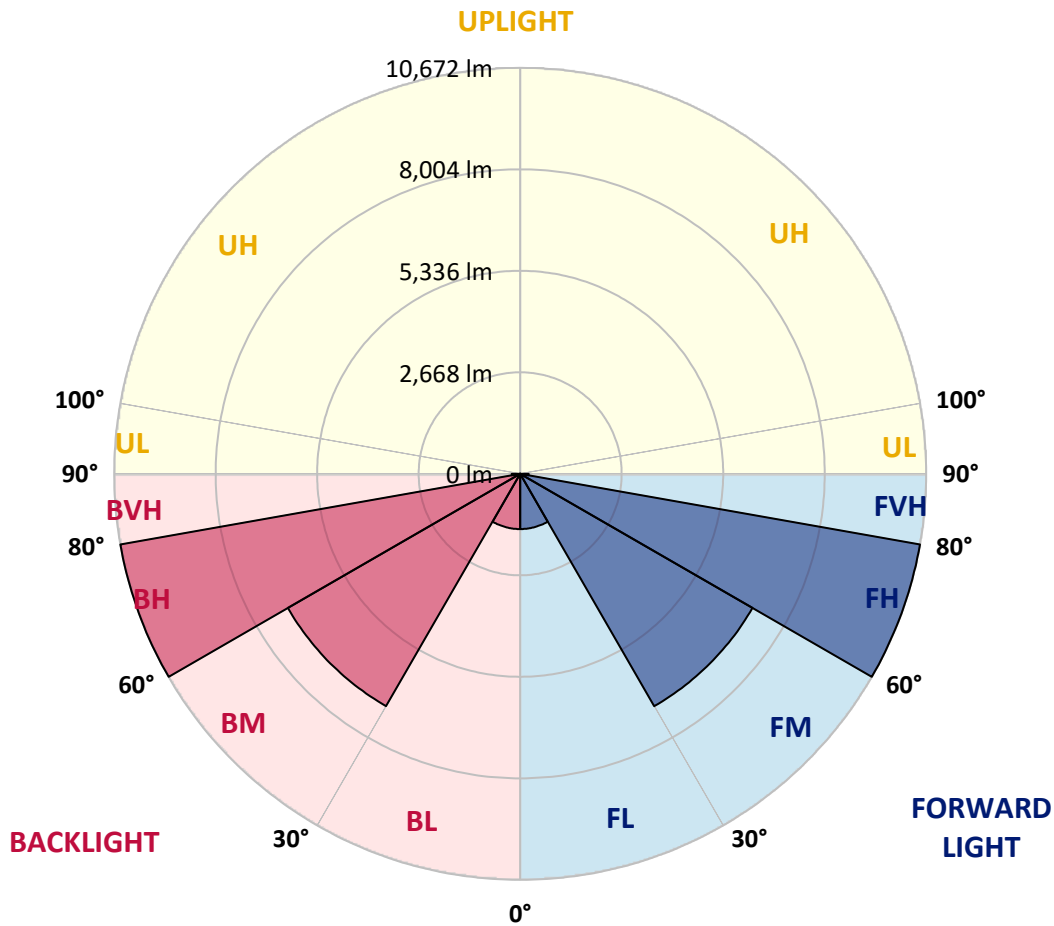
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.2	3.7			
FM (30°-60°)	7051.6	18.2			
FH (60°-80°)	10672.0	27.5			G4/12000
FVH (80°-90°)	221.7	0.6			G2/225
BL (0°-30°)	1452.2	3.7	B3/2500		
BM (30°-60°)	7051.6	18.2	B4/8500		
BH (60°-80°)	10672.0	27.5	B5		G4/12000
BVH (80°-90°)	221.7	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°	3538.9	3538.9	3538.9	3538.9	3538.9	3538.9	3538.9	3538.9	3538.9	3538.9	3538.9
2.5°	3516.7	3526.8	3522.8	3514.7	3514.7	3508.6	3514.7	3518.7	3524.8	3528.8	3526.8
5°	3470.3	3478.4	3476.4	3470.3	3472.3	3466.3	3470.3	3476.4	3480.4	3482.4	3482.4
7.5°	3430.0	3438.1	3434.0	3423.9	3423.9	3417.9	3419.9	3426.0	3432.0	3434.0	3434.0
10°	3419.9	3428.0	3415.9	3399.7	3393.7	3385.6	3387.7	3393.7	3405.8	3411.8	3411.8
12.5°	3423.9	3430.0	3417.9	3393.7	3387.7	3379.6	3379.6	3385.6	3401.8	3409.8	3411.8
15°	3436.0	3442.1	3423.9	3397.7	3391.7	3385.6	3383.6	3391.7	3409.8	3423.9	3426.0
17.5°	3458.2	3464.3	3436.0	3399.7	3391.7	3393.7	3391.7	3397.7	3426.0	3452.2	3452.2
20°	3478.4	3482.4	3444.1	3399.7	3391.7	3393.7	3391.7	3403.8	3440.1	3476.4	3478.4
22.5°	3484.4	3488.5	3452.2	3413.9	3407.8	3409.8	3407.8	3419.9	3454.2	3490.5	3490.5
25°	3486.5	3492.5	3464.3	3434.0	3444.1	3448.1	3444.1	3446.1	3472.3	3504.6	3502.6
27.5°	3516.7	3524.8	3498.6	3472.3	3478.4	3476.4	3482.4	3488.5	3508.6	3540.9	3532.8
30°	3579.2	3585.3	3563.1	3536.9	3532.8	3518.7	3536.9	3557.0	3579.2	3607.4	3601.4
32.5°	3682.1	3694.2	3665.9	3637.7	3619.5	3611.5	3625.6	3659.9	3690.1	3720.4	3708.3
35°	3853.5	3861.5	3835.3	3782.9	3750.6	3750.6	3762.7	3807.1	3855.5	3893.8	3879.7
37.5°	4095.4	4105.5	4059.1	3996.6	3948.2	3948.2	3964.4	4010.7	4083.3	4137.8	4117.6
40°	4389.8	4403.9	4345.5	4280.9	4234.6	4226.5	4246.7	4299.1	4367.6	4436.2	4414.0
42.5°	4744.7	4760.9	4684.2	4627.8	4591.5	4591.5	4601.6	4650.0	4712.5	4797.2	4791.1
45°	5198.4	5226.7	5121.8	5065.3	5031.1	5039.1	5045.2	5087.5	5144.0	5240.8	5236.7
47.5°	5738.8	5767.1	5656.2	5597.7	5591.6	5630.0	5605.8	5636.0	5666.2	5777.2	5744.9
50°	6351.8	6400.2	6323.6	6319.6	6331.7	6402.3	6345.8	6361.9	6327.6	6398.2	6355.9
52.5°	7102.0	7172.5	7158.4	7182.6	7317.7	7462.9	7333.9	7277.4	7148.3	7170.5	7095.9
55°	8011.4	8118.3	8138.4	8283.6	8590.1	8886.5	8612.3	8384.4	8110.2	8059.8	7981.1
57.5°	9045.8	9130.5	9227.3	9523.7	10096.4	10622.7	10096.4	9592.3	9160.8	9057.9	8985.3
60°	10158.9	10263.8	10356.5	10794.1	11645.0	12385.1	11628.9	10828.4	10257.7	10118.6	9997.6
62.5°	11354.7	11489.8	11554.3	12040.3	13032.4	13915.6	13046.5	12076.6	11443.4	11294.2	11173.2
65°	12502.0	12612.9	12685.5	13203.8	14151.5	15036.7	14216.0	13260.2	12608.9	12413.3	12316.5
67.5°	13036.4	13096.9	13274.3	13861.1	14861.3	15871.5	15030.7	13923.6	13195.7	12852.9	12856.9
70°	12254.0	12131.0	12558.5	13498.2	14946.0	16383.7	15139.6	13469.9	12578.7	12022.1	12155.2
72.5°	9469.3	9257.6	9999.6	11606.7	13978.1	16057.1	14074.9	11697.5	10461.4	9332.2	9612.5
75°	5152.1	4912.1	5936.5	7969.0	11147.0	13917.6	11403.1	8196.9	6610.0	5113.7	5446.5
77.5°	1453.9	1363.1	2189.9	3855.5	6704.7	9771.8	6962.8	3940.2	2597.2	1540.6	1712.0
80°	445.6	431.5	584.8	1161.5	2847.2	4680.2	2736.3	1175.6	744.1	469.8	496.0
82.5°	264.2	242.0	290.4	423.5	725.9	1470.0	705.8	441.6	354.9	237.9	258.1
85°	151.2	141.2	171.4	205.7	244.0	312.6	203.7	209.7	189.5	127.0	133.1
87.5°	62.5	56.5	66.5	64.5	56.5	72.6	54.4	64.5	76.6	50.4	46.4
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)