

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: P884152

Luminaire Tested: **NAV-SB4D-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884152
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-SB4D-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36500 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

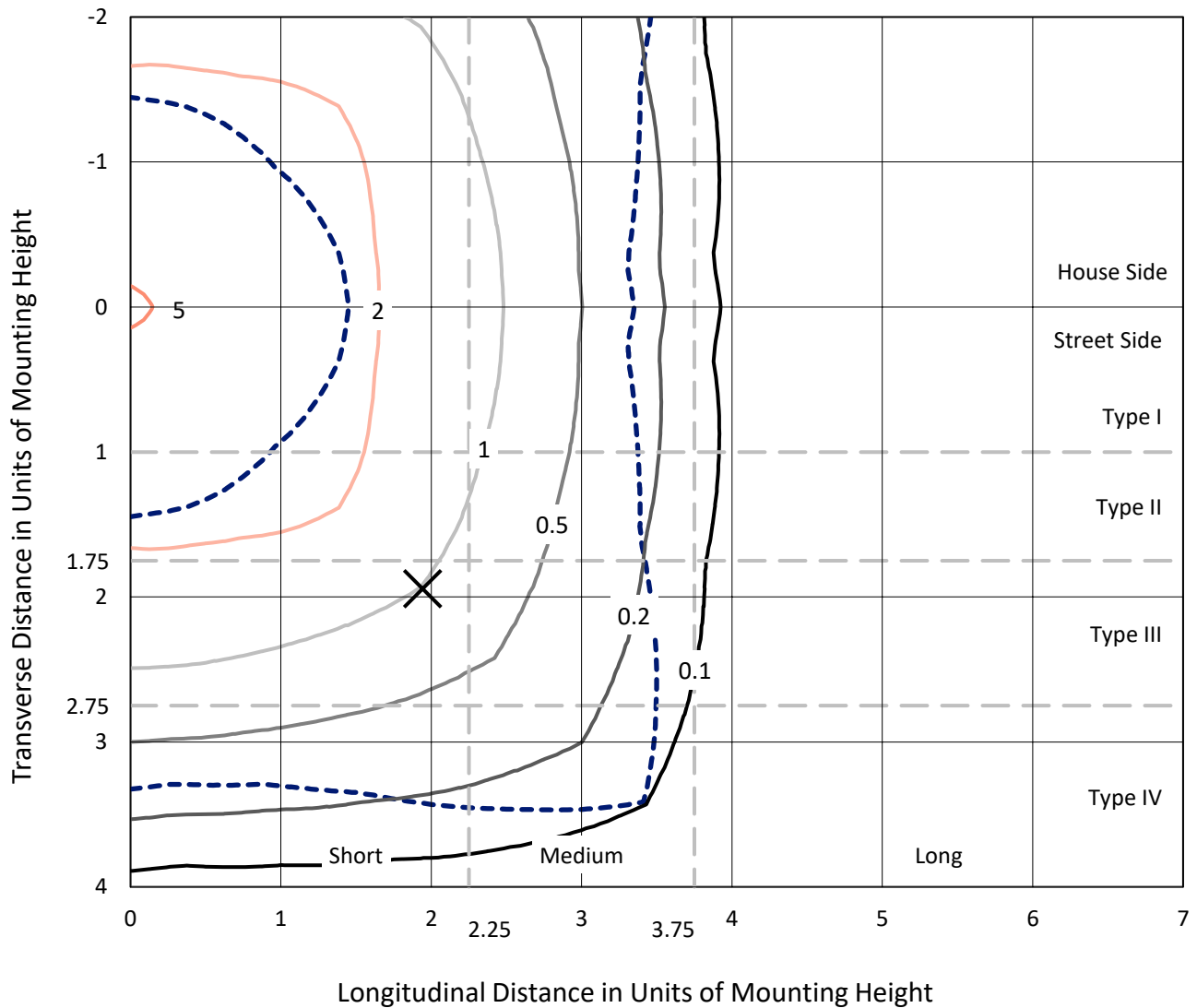
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

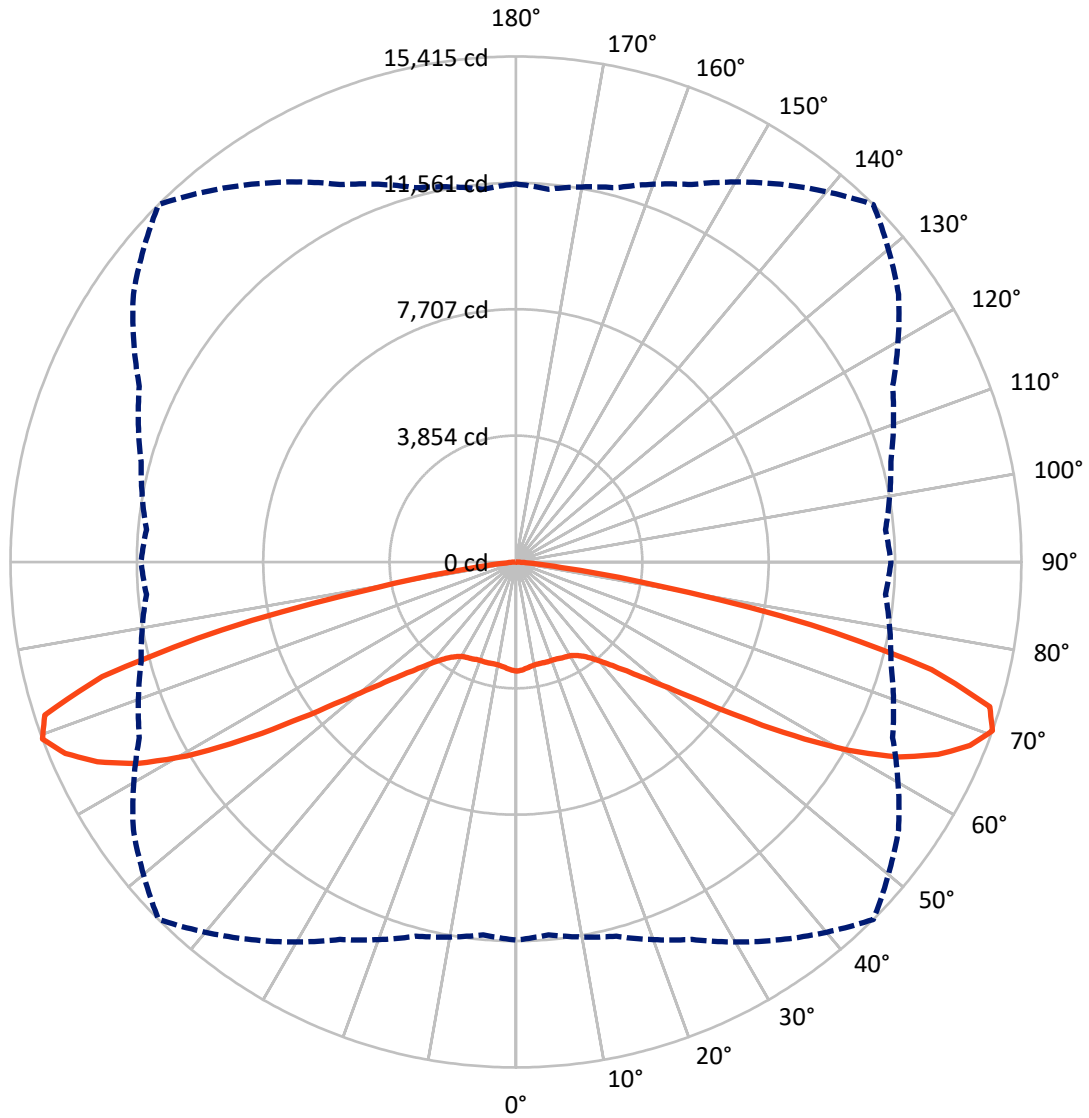
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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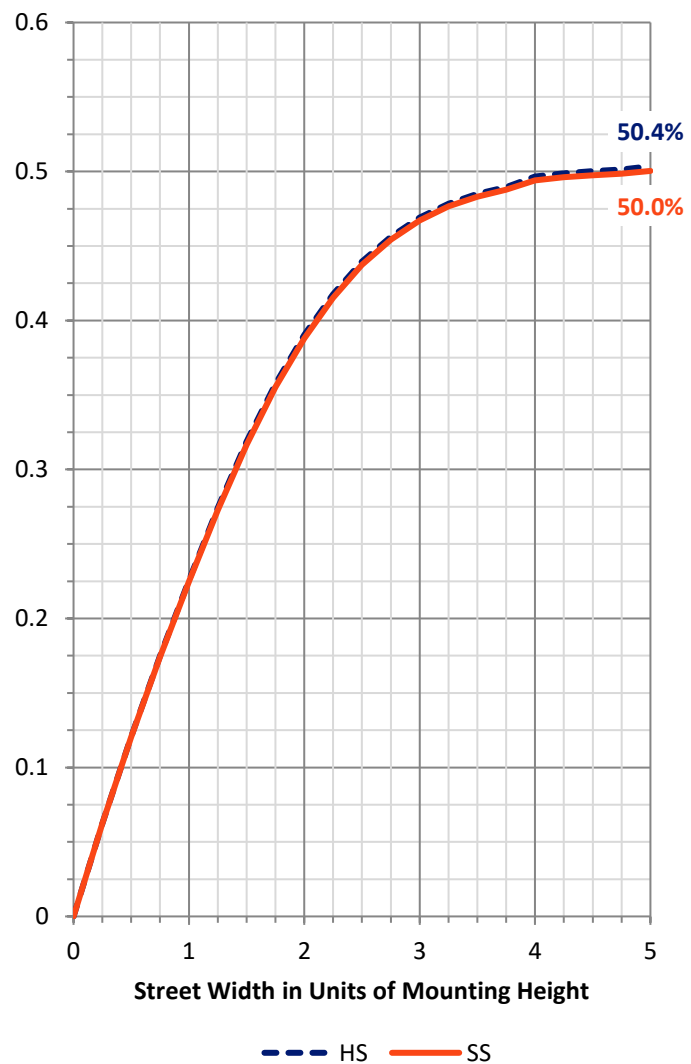
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18250.0	0.0	18250.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18250.0	0.0	18250.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36500.0	0.0	36500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	0.8
10°-20°	909.4	2.5
20°-30°	1513.4	4.1
30°-40°	2288.8	6.3
40°-50°	3803.4	10.4
50°-60°	7176.8	19.7
60°-70°	12118.3	33.2
70°-80°	7963.0	21.8
80°-90°	417.2	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°	36500.0	100.0
0°-180°	36500.0	100.0

Coefficient of Utilization



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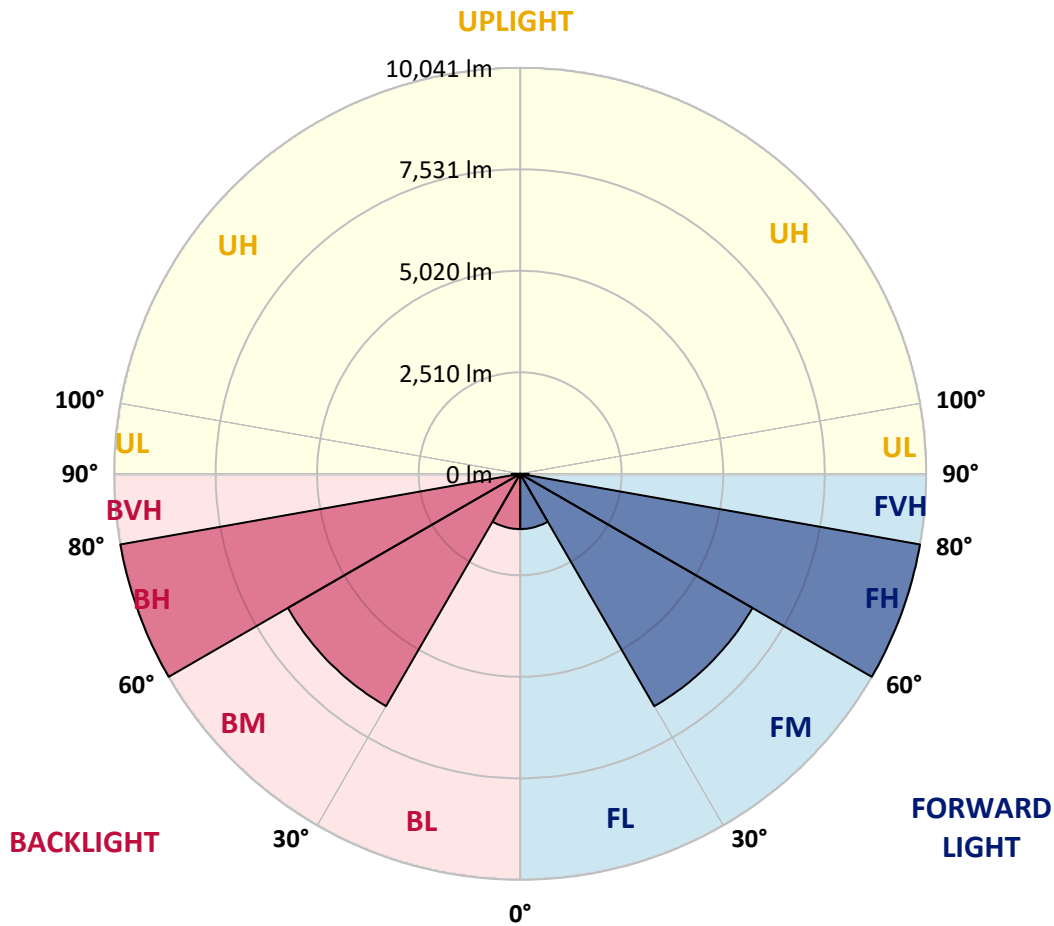
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.3	3.7			
FM (30°-60°)	6634.5	18.2			
FH (60°-80°)	10040.7	27.5			G4/12000
FVH (80°-90°)	208.6	0.6			G2/225
BL (0°-30°)	1366.3	3.7	B3/2500		
BM (30°-60°)	6634.5	18.2	B4/8500		
BH (60°-80°)	10040.7	27.5	B5		G4/12000
BVH (80°-90°)	208.6	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°	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5	3329.5
2.5°	3308.7	3318.2	3314.4	3306.8	3306.8	3301.1	3306.8	3310.6	3316.3	3320.0	3318.2
5°	3265.0	3272.6	3270.7	3265.0	3266.9	3261.2	3265.0	3270.7	3274.5	3276.4	3276.4
7.5°	3227.1	3234.7	3230.9	3221.4	3221.4	3215.7	3217.6	3223.3	3229.0	3230.9	3230.9
10°	3217.6	3225.2	3213.8	3198.6	3192.9	3185.3	3187.2	3192.9	3204.3	3210.0	3210.0
12.5°	3221.4	3227.1	3215.7	3192.9	3187.2	3179.7	3179.7	3185.3	3200.5	3208.1	3210.0
15°	3232.8	3238.5	3221.4	3196.7	3191.0	3185.3	3183.5	3191.0	3208.1	3221.4	3223.3
17.5°	3253.6	3259.3	3232.8	3198.6	3191.0	3192.9	3191.0	3196.7	3223.3	3248.0	3248.0
20°	3272.6	3276.4	3240.4	3198.6	3191.0	3192.9	3191.0	3202.4	3236.6	3270.7	3272.6
22.5°	3278.3	3282.1	3248.0	3211.9	3206.2	3208.1	3206.2	3217.6	3249.9	3284.0	3284.0
25°	3280.2	3285.9	3259.3	3230.9	3240.4	3244.2	3240.4	3242.3	3266.9	3297.3	3295.4
27.5°	3308.7	3316.3	3291.6	3266.9	3272.6	3270.7	3276.4	3282.1	3301.1	3331.4	3323.8
30°	3367.5	3373.2	3352.3	3327.6	3323.8	3310.6	3327.6	3346.6	3367.5	3394.0	3388.3
32.5°	3464.2	3475.6	3449.1	3422.5	3405.4	3397.8	3411.1	3443.4	3471.8	3500.3	3488.9
35°	3625.5	3633.1	3608.4	3559.1	3528.7	3528.7	3540.1	3581.9	3627.4	3663.4	3650.2
37.5°	3853.2	3862.6	3819.0	3760.2	3714.7	3714.7	3729.8	3773.5	3841.8	3893.0	3874.0
40°	4130.1	4143.4	4088.4	4027.7	3984.1	3976.5	3995.4	4044.8	4109.3	4173.8	4152.9
42.5°	4464.0	4479.2	4407.1	4354.0	4319.9	4319.9	4329.3	4374.9	4433.7	4513.4	4507.7
45°	4890.9	4917.5	4818.8	4765.7	4733.4	4741.0	4746.7	4786.6	4839.7	4930.7	4927.0
47.5°	5399.3	5425.9	5321.6	5266.5	5260.9	5296.9	5274.1	5302.6	5331.1	5435.4	5405.0
50°	5976.1	6021.6	5949.5	5945.7	5957.1	6023.5	5970.4	5985.6	5953.3	6019.7	5979.9
52.5°	6681.8	6748.2	6735.0	6757.7	6884.8	7021.4	6900.0	6846.9	6725.5	6746.3	6676.1
55°	7537.5	7638.0	7657.0	7793.6	8081.9	8360.8	8102.8	7888.4	7630.4	7583.0	7509.0
57.5°	8510.7	8590.4	8681.5	8960.3	9499.1	9994.3	9499.1	9024.8	8618.8	8522.1	8453.8
60°	9557.9	9656.6	9743.9	10155.6	10956.2	11652.4	10941.0	10187.8	9650.9	9520.0	9406.2
62.5°	10683.0	10810.1	10870.8	11328.0	12261.4	13092.4	12274.7	11362.2	10766.4	10626.1	10512.2
65°	11762.5	11866.8	11935.1	12422.7	13314.3	14147.2	13375.1	12475.8	11863.0	11679.0	11587.9
67.5°	12265.2	12322.1	12489.1	13041.2	13982.1	14932.6	14141.5	13100.0	12415.1	12092.6	12096.4
70°	11529.1	11413.4	11815.6	12699.7	14061.8	15414.5	14244.0	12673.1	11834.6	11310.9	11436.1
72.5°	8909.1	8709.9	9408.1	10920.1	13151.2	15107.2	13242.3	11005.5	9842.5	8780.1	9043.8
75°	4847.3	4621.5	5585.3	7497.6	10487.6	13094.3	10728.5	7712.0	6218.9	4811.2	5124.3
77.5°	1367.9	1282.5	2060.3	3627.4	6308.1	9193.7	6550.9	3707.1	2443.6	1449.4	1610.7
80°	419.3	406.0	550.2	1092.8	2678.8	4403.3	2574.5	1106.1	700.1	442.0	466.7
82.5°	248.5	227.7	273.2	398.4	683.0	1383.0	664.0	415.5	333.9	223.9	242.8
85°	142.3	132.8	161.3	193.5	229.6	294.1	191.6	197.3	178.3	119.5	125.2
87.5°	58.8	53.1	62.6	60.7	53.1	68.3	51.2	60.7	72.1	47.4	43.6
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)