

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: P883305

Luminaire Tested: **NAV-SB3C-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19444 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

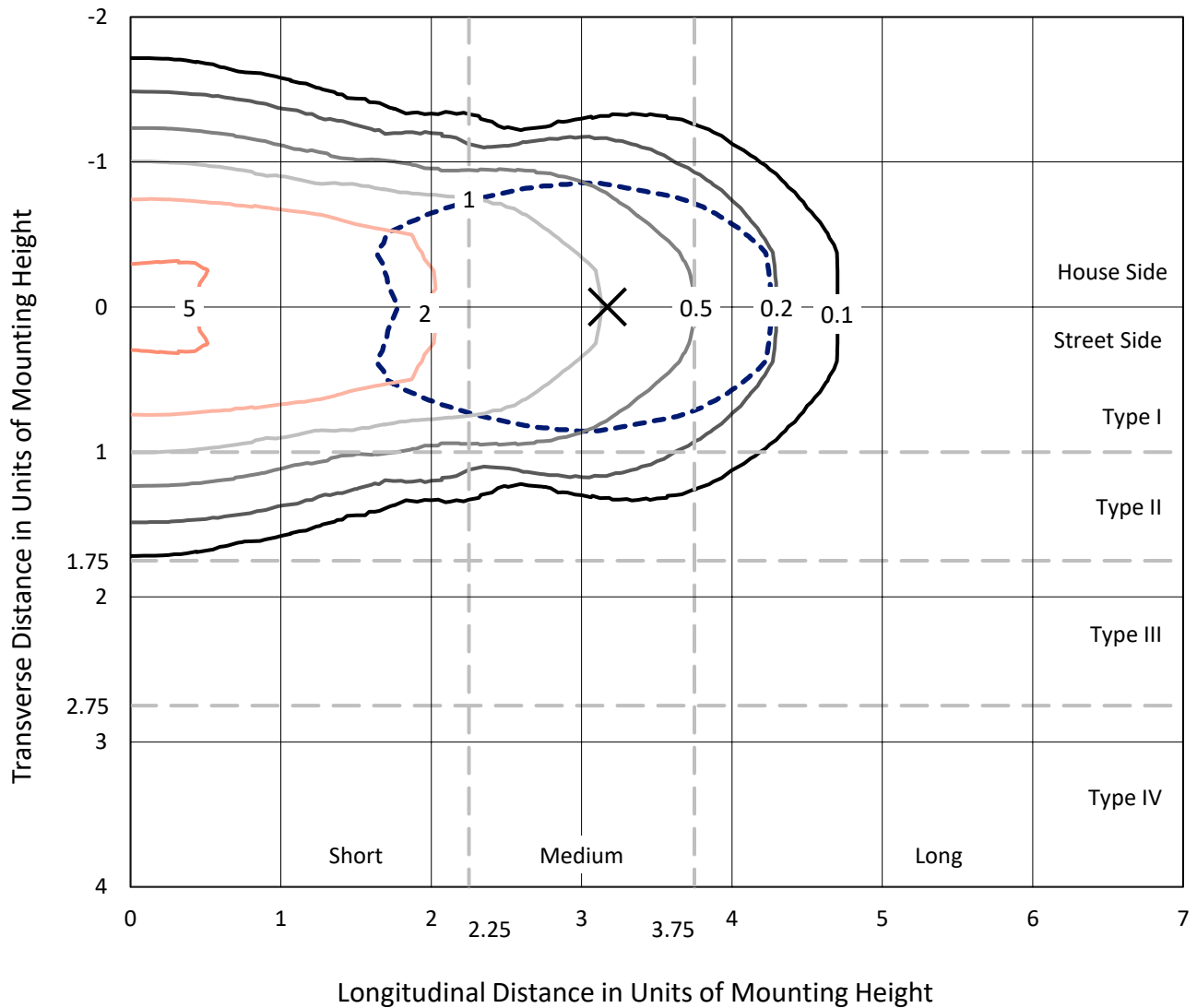
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

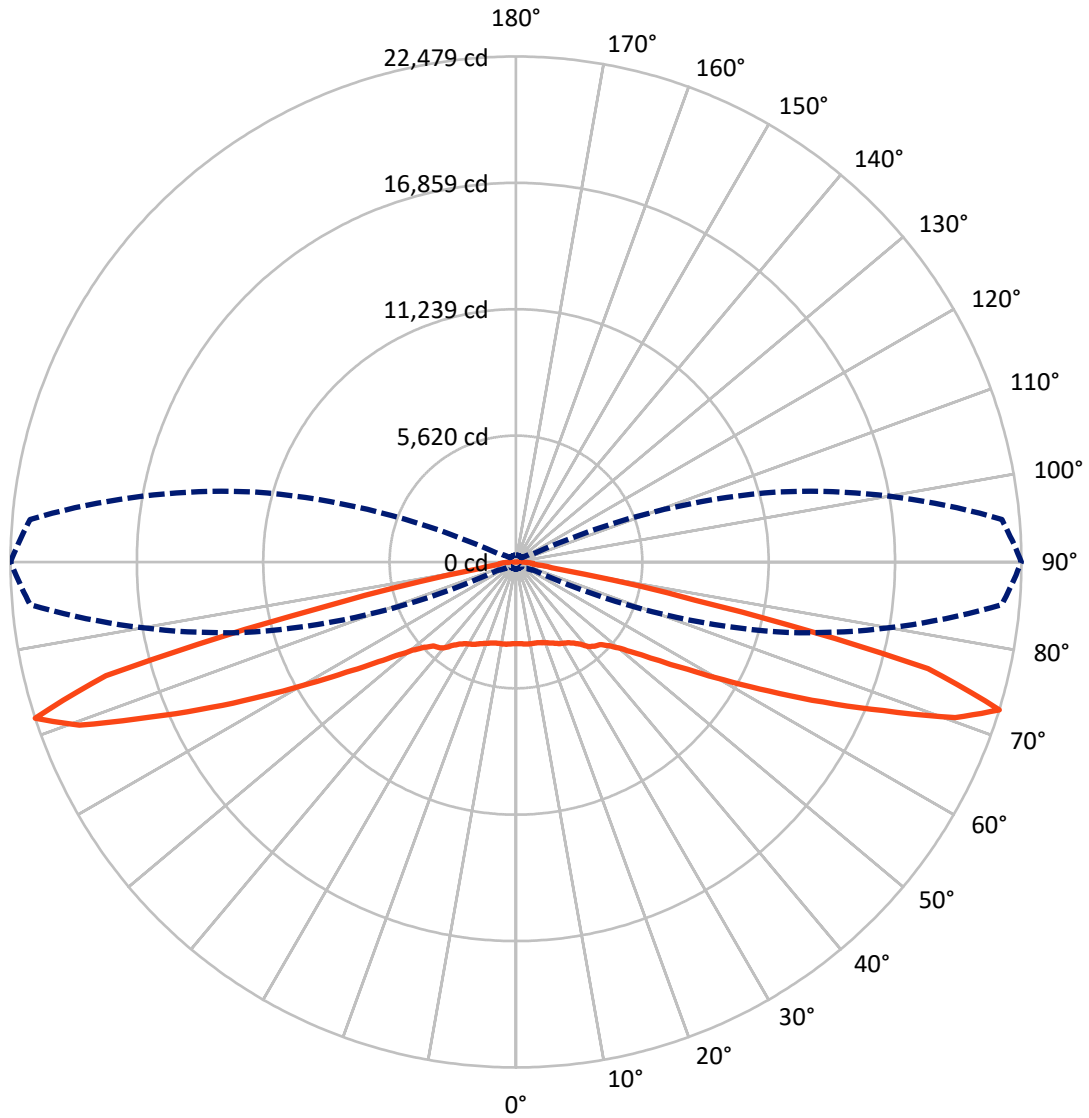
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9722.0	0.0	9722.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9722.0	0.0	9722.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19444.0	0.0	19444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.3	1.8
10°-20°	1077.2	5.5
20°-30°	1796.1	9.2
30°-40°	2470.2	12.7
40°-50°	3016.8	15.5
50°-60°	3489.2	17.9
60°-70°	4160.3	21.4
70°-80°	2903.6	14.9
80°-90°	178.3	0.9
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°	19444.0	100.0
0°-180°	19444.0	100.0

Coefficient of Utilization

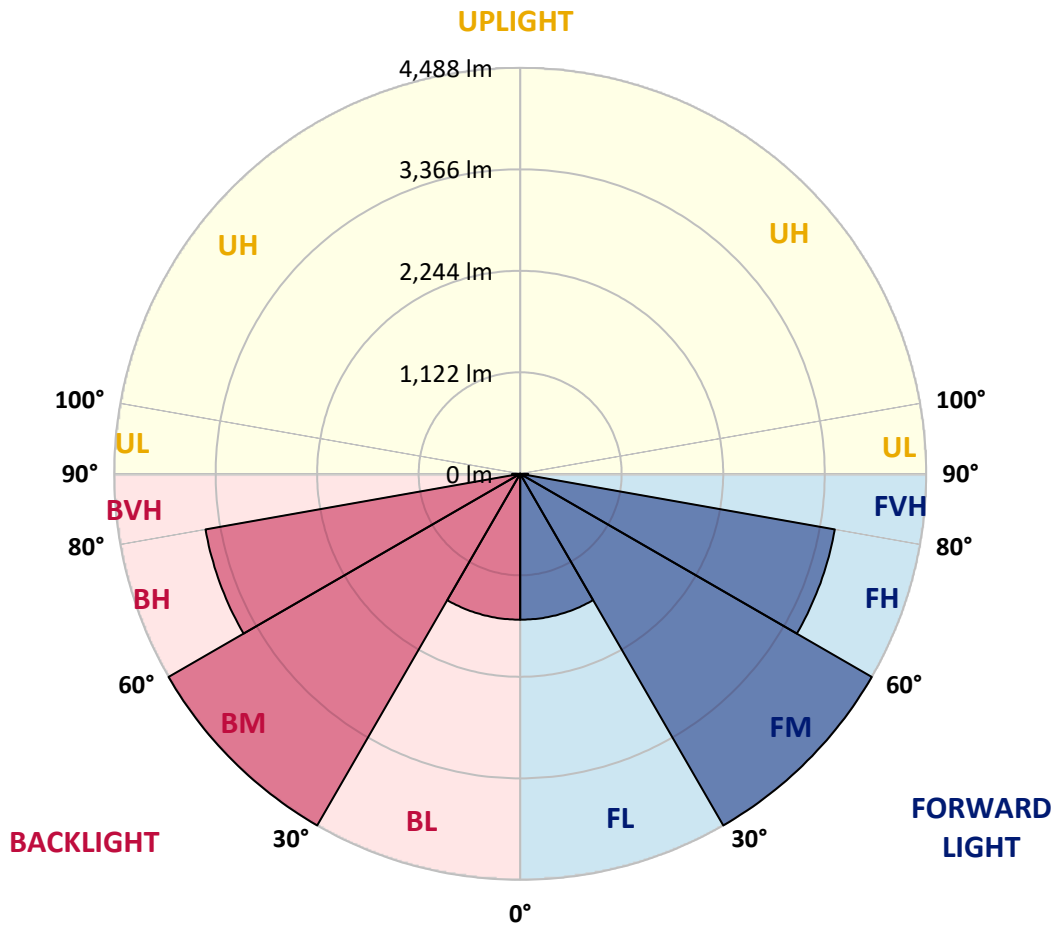


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.8	8.3			
FM (30°-60°)	4488.1	23.1			
FH (60°-80°)	3532.0	18.2			G2/5000
FVH (80°-90°)	89.2	0.5			G1/100
BL (0°-30°)	1612.8	8.3	B3/2500		
BM (30°-60°)	4488.1	23.1	B3/5000		
BH (60°-80°)	3532.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	89.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3
2.5°	3636.4	3640.6	3640.6	3637.5	3644.7	3638.5	3638.5	3635.4	3638.5	3635.4	3635.4
5°	3655.0	3660.2	3662.3	3661.2	3670.5	3665.4	3665.4	3661.2	3662.3	3659.2	3659.2
7.5°	3690.2	3697.4	3701.5	3706.7	3720.1	3713.9	3709.8	3697.4	3692.2	3684.0	3684.0
10°	3701.5	3709.8	3723.2	3750.1	3781.1	3782.1	3769.7	3738.7	3715.0	3696.4	3693.3
12.5°	3666.4	3677.8	3705.7	3760.4	3829.7	3857.6	3837.9	3786.3	3739.8	3706.7	3701.5
15°	3621.9	3634.4	3676.7	3759.4	3861.7	3926.8	3924.7	3856.5	3782.1	3730.5	3722.2
17.5°	3552.7	3565.1	3626.1	3741.8	3886.5	3994.0	4022.9	3952.6	3848.3	3779.0	3767.7
20°	3427.7	3439.0	3523.8	3686.0	3894.8	4065.3	4140.7	4078.7	3948.5	3854.5	3836.9
22.5°	3265.4	3283.0	3382.2	3589.9	3875.1	4139.7	4275.0	4232.7	4065.3	3935.1	3911.3
25°	3091.8	3110.4	3226.2	3472.1	3824.5	4193.4	4434.2	4407.3	4197.5	4035.3	4002.2
27.5°	2942.0	2961.6	3087.7	3355.3	3746.0	4214.1	4591.2	4604.7	4357.7	4145.9	4110.7
30°	2824.2	2842.8	2977.1	3261.3	3644.7	4193.4	4728.7	4821.7	4521.0	4242.0	4191.3
32.5°	2695.0	2718.8	2860.4	3146.6	3524.8	4143.8	4848.6	5056.3	4710.1	4345.3	4281.2
35°	2531.7	2553.4	2702.3	2989.5	3367.7	4064.2	4948.8	5316.7	4980.8	4502.4	4431.1
37.5°	2333.3	2354.0	2501.8	2793.2	3211.7	3952.6	5025.3	5610.1	5303.2	4728.7	4633.6
40°	2133.9	2153.5	2292.0	2574.1	3024.7	3810.0	5052.1	5897.4	5673.2	5039.7	4938.5
42.5°	1951.0	1968.6	2095.7	2358.1	2814.9	3628.1	5017.0	6147.5	6004.9	5256.7	5126.5
45°	1782.6	1798.1	1910.7	2155.6	2596.9	3407.0	4911.6	6416.2	6399.6	5411.7	5236.1
47.5°	1590.4	1605.9	1722.6	1959.3	2378.8	3147.6	4732.8	6680.7	6948.4	5763.1	5560.5
50°	1355.8	1369.2	1489.1	1733.0	2152.5	2871.7	4484.8	6888.4	7640.7	6295.3	6041.1
52.5°	1077.8	1092.3	1209.0	1452.9	1883.8	2575.1	4158.3	7023.8	8440.5	7072.4	6759.3
55°	801.9	812.2	913.5	1132.6	1551.1	2237.2	3749.1	7062.0	9347.8	8134.7	7743.0
57.5°	581.8	588.0	653.1	816.4	1176.0	1814.6	3252.0	6962.8	10427.7	9496.6	9003.7
60°	471.2	473.3	492.9	565.3	817.4	1337.2	2651.6	6621.8	11599.5	11252.3	10631.3
62.5°	427.8	427.8	433.0	452.6	552.9	882.5	1925.2	5915.0	12856.1	13471.0	12639.1
65°	397.8	397.8	399.9	409.2	436.1	562.2	1215.2	4763.8	13915.3	16069.9	15017.9
67.5°	371.0	372.0	371.0	374.1	389.6	415.4	704.8	3290.2	14485.7	18762.8	17627.2
70°	343.1	345.1	340.0	340.0	352.4	353.4	441.2	1804.3	14012.4	21019.7	20721.1
72.5°	310.0	313.1	304.8	302.8	312.1	307.9	331.7	866.0	12030.5	21693.5	22478.8
75°	281.1	285.2	266.6	261.4	261.4	258.3	269.7	444.3	7808.1	17696.4	18928.2
77.5°	255.2	263.5	233.5	217.0	212.9	203.6	220.1	271.8	3415.3	8308.3	8135.7
80°	210.8	222.2	192.2	172.6	165.3	155.0	173.6	190.1	1015.8	1929.3	1847.7
82.5°	157.1	162.2	136.4	123.0	116.8	109.5	130.2	132.3	330.7	683.1	771.9
85°	100.2	102.3	83.7	72.3	69.2	66.1	82.7	72.3	126.1	502.2	729.6
87.5°	35.1	40.3	32.0	28.9	31.0	25.8	38.2	21.7	35.1	354.4	439.2
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)