

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: P968892

Luminaire Tested: **NAV-SB5C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34106.9 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

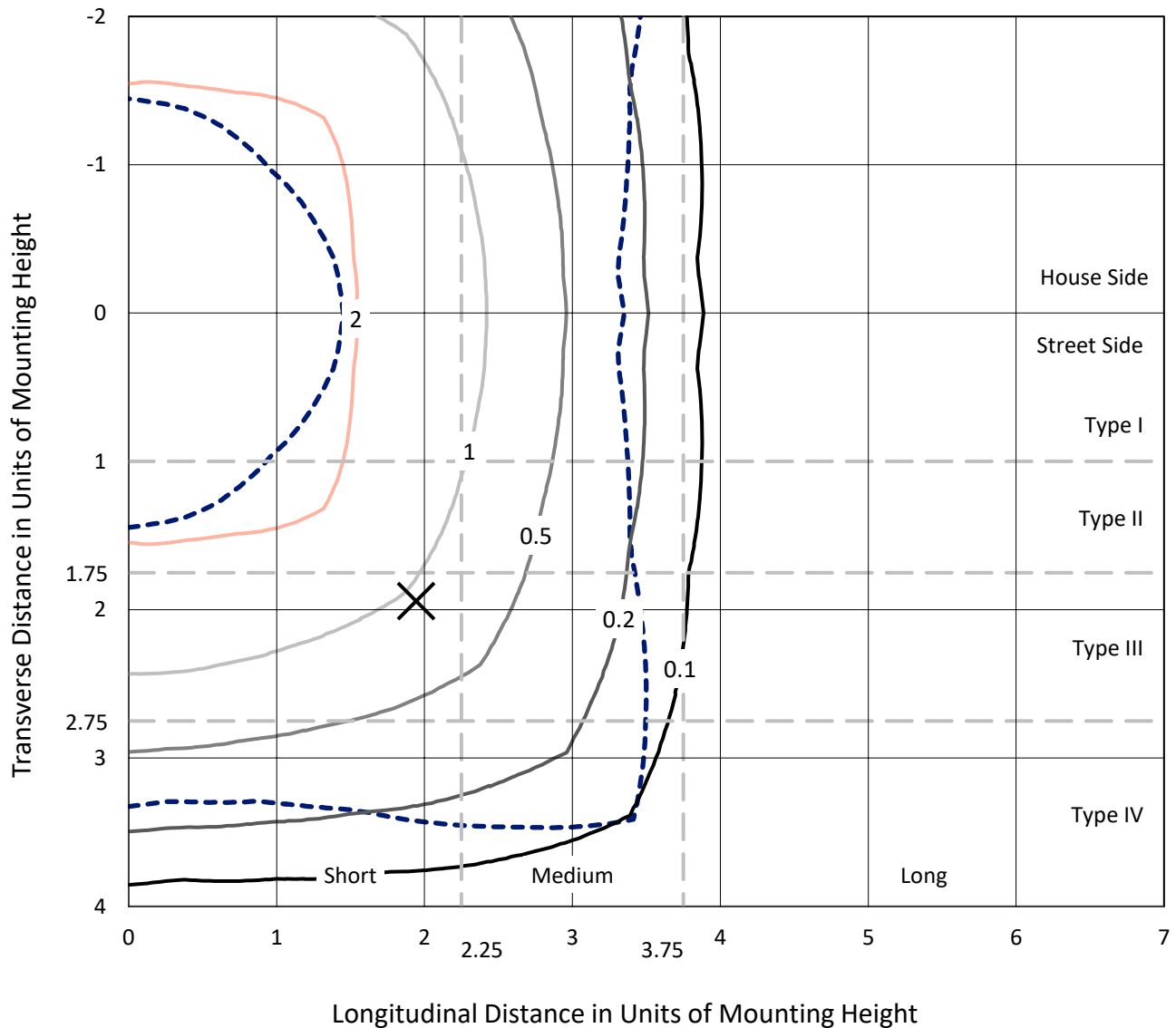
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968892
CATALOG NUMBER: NAV-SB5C-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

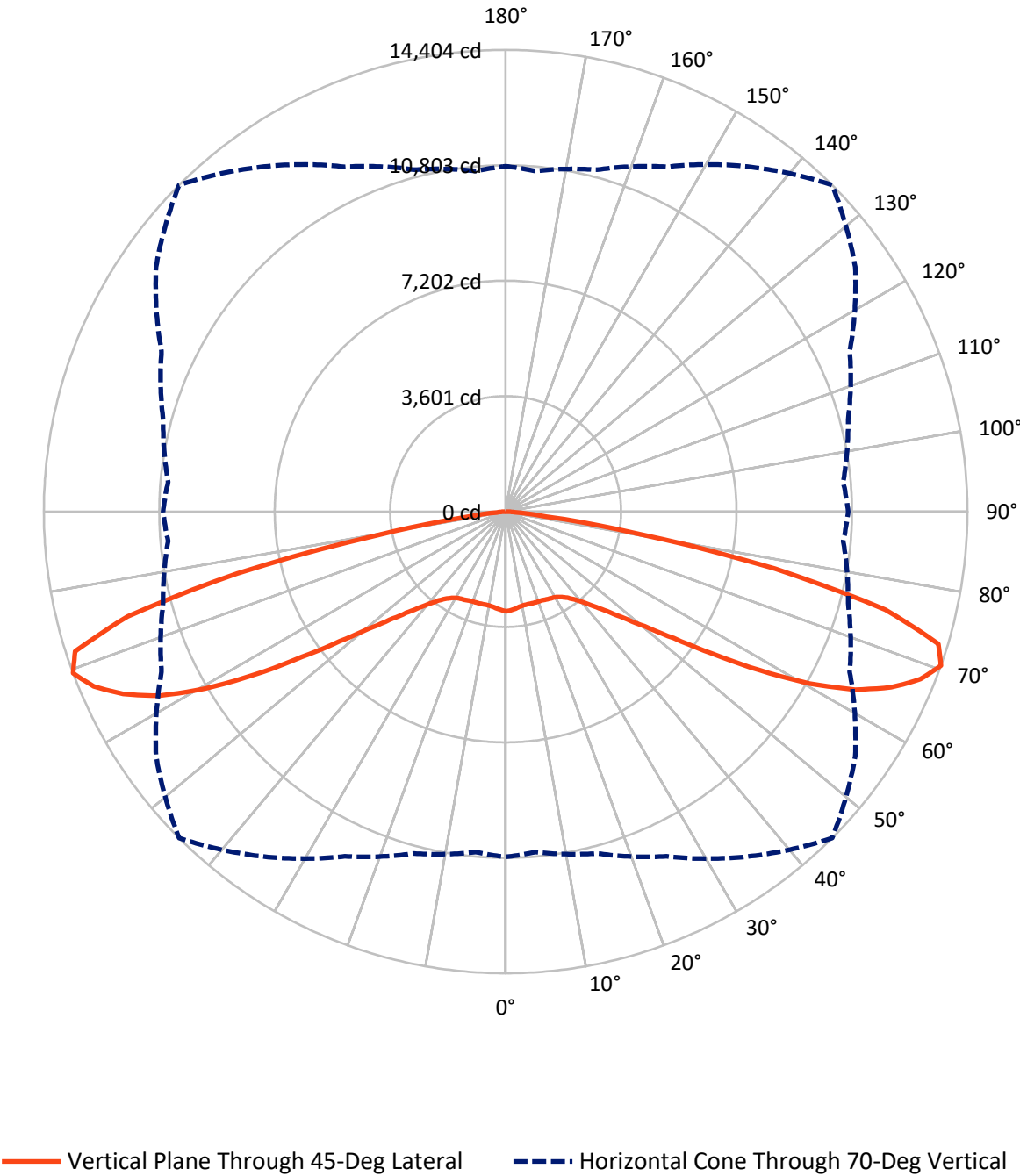
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type V - Short - N/A

REPORT NUMBER: P968892
CATALOG NUMBER: NAV-SB5C-827-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17053.4	0.0	17053.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17053.4	0.0	17053.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34106.9	0.0	34106.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	0.8
10°-20°	849.8	2.5
20°-30°	1414.2	4.1
30°-40°	2138.7	6.3
40°-50°	3554.0	10.4
50°-60°	6706.3	19.7
60°-70°	11323.8	33.2
70°-80°	7440.9	21.8
80°-90°	389.8	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°	34106.9	100.0
0°-180°	34106.9	100.0

Coefficient of Utilization



REPORT NUMBER: P968892

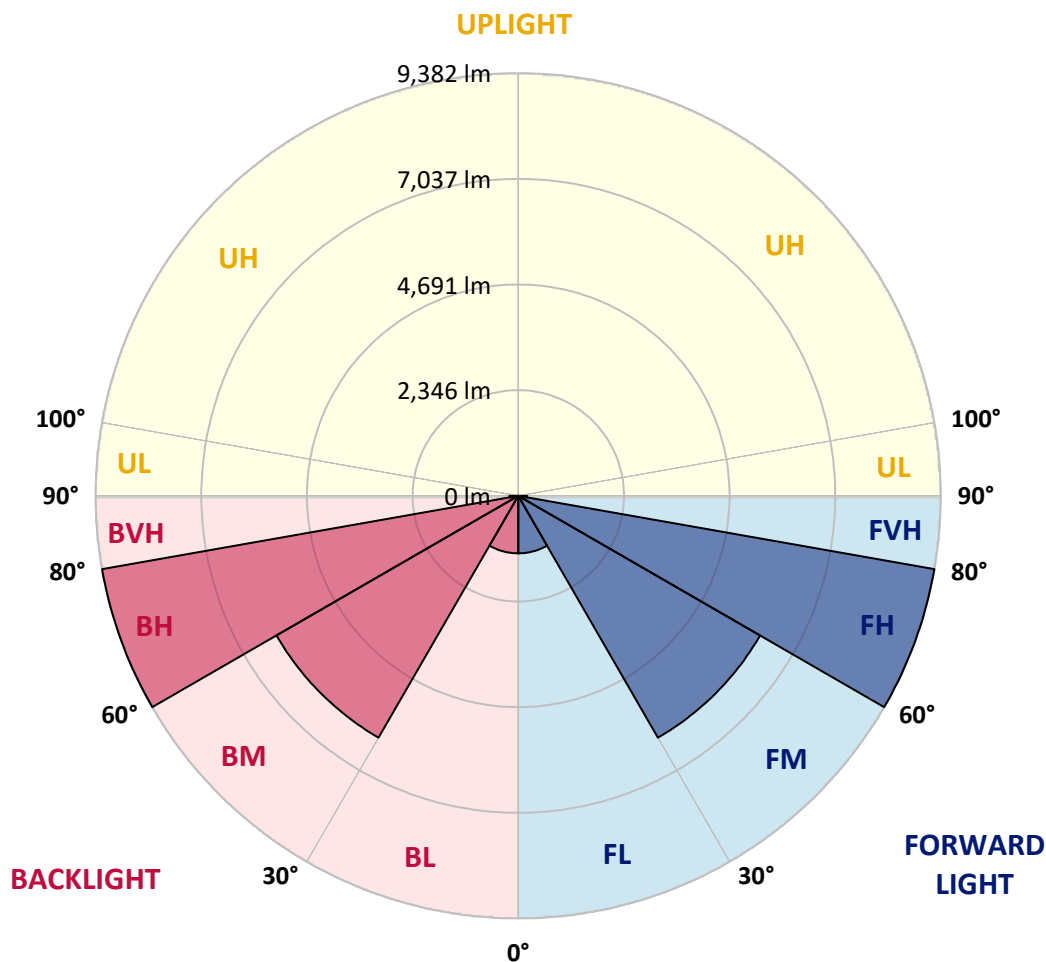
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.7	3.7			
FM	(30°-60°)	6199.5	18.2			
FH	(60°-80°)	9382.3	27.5			G4/12000
FVH	(80°-90°)	194.9	0.6			G2/225
BL	(0°-30°)	1276.7	3.7	B3/2500		
BM	(30°-60°)	6199.5	18.2	B4/8500		
BH	(60°-80°)	9382.3	27.5	B5		G4/12000
BVH	(80°-90°)	194.9	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°	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2
2.5°	3091.7	3100.6	3097.0	3090.0	3090.0	3084.6	3090.0	3093.6	3098.8	3102.4	3100.6
5°	3050.9	3058.1	3056.2	3050.9	3052.8	3047.4	3050.9	3056.2	3059.8	3061.6	3061.6
7.5°	3015.5	3022.6	3019.0	3010.2	3010.2	3004.9	3006.6	3012.0	3017.3	3019.0	3019.0
10°	3006.6	3013.7	3003.0	2988.9	2983.6	2976.5	2978.2	2983.6	2994.2	2999.6	2999.6
12.5°	3010.2	3015.5	3004.9	2983.6	2978.2	2971.2	2971.2	2976.5	2990.6	2997.8	2999.6
15°	3020.8	3026.1	3010.2	2987.2	2981.8	2976.5	2974.8	2981.8	2997.8	3010.2	3012.0
17.5°	3040.4	3045.7	3020.8	2988.9	2981.8	2983.6	2981.8	2987.2	3012.0	3035.0	3035.0
20°	3058.1	3061.6	3028.0	2988.9	2981.8	2983.6	2981.8	2992.5	3024.4	3056.2	3058.1
22.5°	3063.4	3066.9	3035.0	3001.3	2996.0	2997.8	2996.0	3006.6	3036.8	3068.6	3068.6
25°	3065.2	3070.5	3045.7	3019.0	3028.0	3031.4	3028.0	3029.7	3052.8	3081.0	3079.3
27.5°	3091.7	3098.8	3075.8	3052.8	3058.1	3056.2	3061.6	3066.9	3084.6	3113.0	3106.0
30°	3146.6	3152.0	3132.5	3109.4	3106.0	3093.6	3109.4	3127.2	3146.6	3171.6	3166.2
32.5°	3237.1	3247.7	3222.9	3198.1	3182.1	3175.0	3187.4	3217.6	3244.2	3270.8	3260.1
35°	3387.8	3394.9	3371.8	3325.7	3297.4	3297.4	3308.0	3347.0	3389.6	3423.2	3410.8
37.5°	3600.5	3609.4	3568.6	3513.7	3471.1	3471.1	3485.3	3526.1	3589.9	3637.7	3620.0
40°	3859.3	3871.7	3820.4	3763.6	3722.8	3715.7	3733.5	3779.6	3839.9	3900.1	3880.6
42.5°	4171.3	4185.6	4118.1	4068.5	4036.7	4036.7	4045.5	4088.0	4142.9	4217.5	4212.1
45°	4570.3	4595.1	4502.8	4453.2	4423.1	4430.2	4435.5	4472.7	4522.4	4607.5	4603.9
47.5°	5045.4	5070.2	4972.7	4921.2	4915.9	4949.6	4928.3	4955.0	4981.5	5079.0	5050.7
50°	5584.3	5626.8	5559.5	5555.9	5566.6	5628.6	5579.0	5593.1	5563.0	5625.0	5587.8
52.5°	6243.8	6305.8	6293.4	6314.6	6433.4	6561.0	6447.7	6397.9	6284.5	6304.1	6238.5
55°	7043.3	7137.2	7154.9	7282.6	7552.1	7812.7	7571.6	7371.2	7130.1	7085.8	7016.6
57.5°	7952.7	8027.2	8112.3	8372.8	8876.3	9339.0	8876.3	8433.1	8053.7	7963.3	7899.5
60°	8931.2	9023.5	9105.0	9489.7	10237.8	10888.5	10223.7	9519.9	9018.2	8895.9	8789.5
62.5°	9982.6	10101.3	10158.1	10585.3	11457.4	12234.0	11470.0	10617.2	10060.6	9929.4	9823.0
65°	10991.3	11088.8	11152.6	11608.2	12441.3	13219.6	12498.1	11657.8	11085.2	10913.3	10828.2
67.5°	11461.0	11514.2	11670.2	12186.1	13065.4	13953.5	13214.3	12241.1	11601.1	11299.7	11303.3
70°	10773.2	10665.0	11040.9	11867.0	13139.9	14403.8	13310.0	11842.2	11058.6	10569.3	10686.3
72.5°	8324.9	8138.8	8791.2	10204.2	12288.9	14116.7	12374.0	10283.9	9197.2	8204.4	8450.8
75°	4529.5	4318.5	5219.1	7006.1	9799.9	12235.7	10025.1	7206.4	5811.1	4495.8	4788.3
77.5°	1278.2	1198.4	1925.3	3389.6	5894.5	8590.9	6121.4	3464.0	2283.4	1354.4	1505.1
80°	391.8	379.4	514.1	1021.1	2503.2	4114.7	2405.7	1033.5	654.2	413.1	436.1
82.5°	232.3	212.7	255.3	372.3	638.2	1292.3	620.4	388.3	312.0	209.2	226.9
85°	132.9	124.1	150.7	180.8	214.5	274.8	179.1	184.4	166.7	111.7	117.0
87.5°	54.9	49.6	58.5	56.7	49.6	63.9	47.9	56.7	67.3	44.3	40.8
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)