

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: P968675

Luminaire Tested: **NAV-SB5C-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968675
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-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32401.3 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

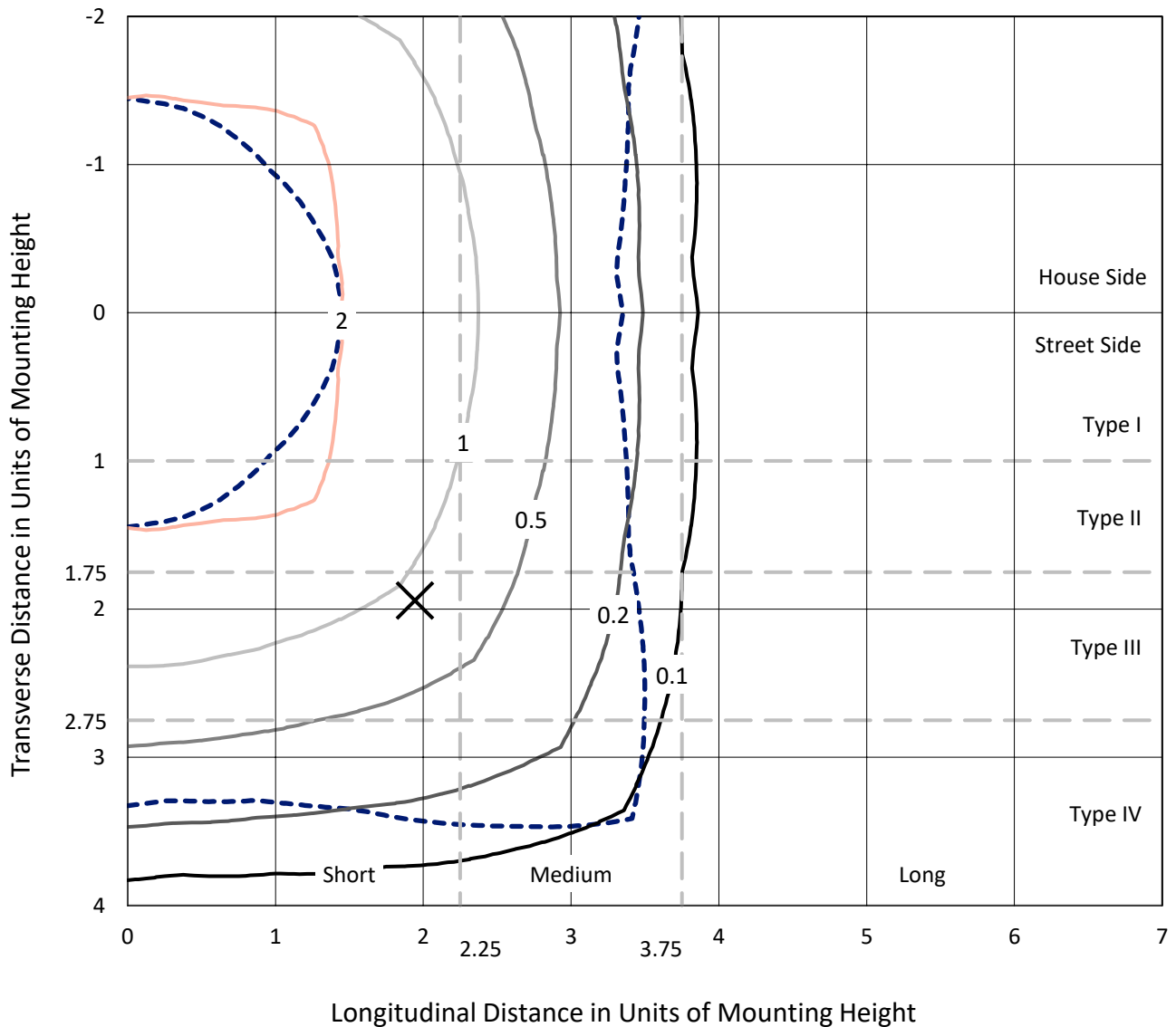
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968675
 CATALOG NUMBER: NAV-SB5C-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

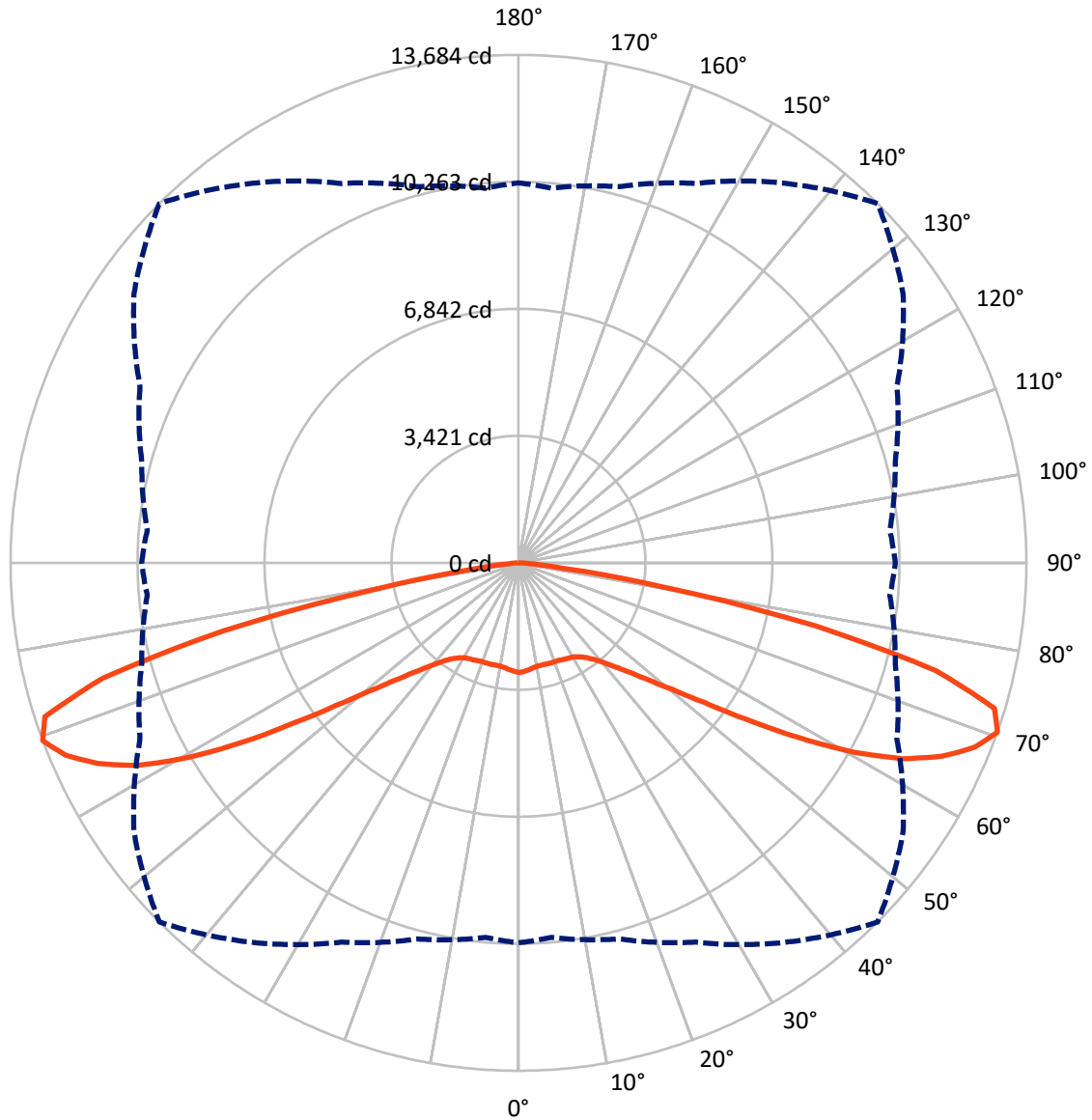
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P968675
CATALOG NUMBER: NAV-SB5C-722-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P968675
 CATALOG NUMBER: NAV-SB5C-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16200.6	0.0	16200.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16200.6	0.0	16200.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	32401.3	0.0	32401.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	0.8
10°-20°	807.3	2.5
20°-30°	1343.5	4.1
30°-40°	2031.7	6.3
40°-50°	3376.3	10.4
50°-60°	6370.9	19.7
60°-70°	10757.5	33.2
70°-80°	7068.8	21.8
80°-90°	370.3	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°	32401.3	100.0
0°-180°	32401.3	100.0

Coefficient of Utilization



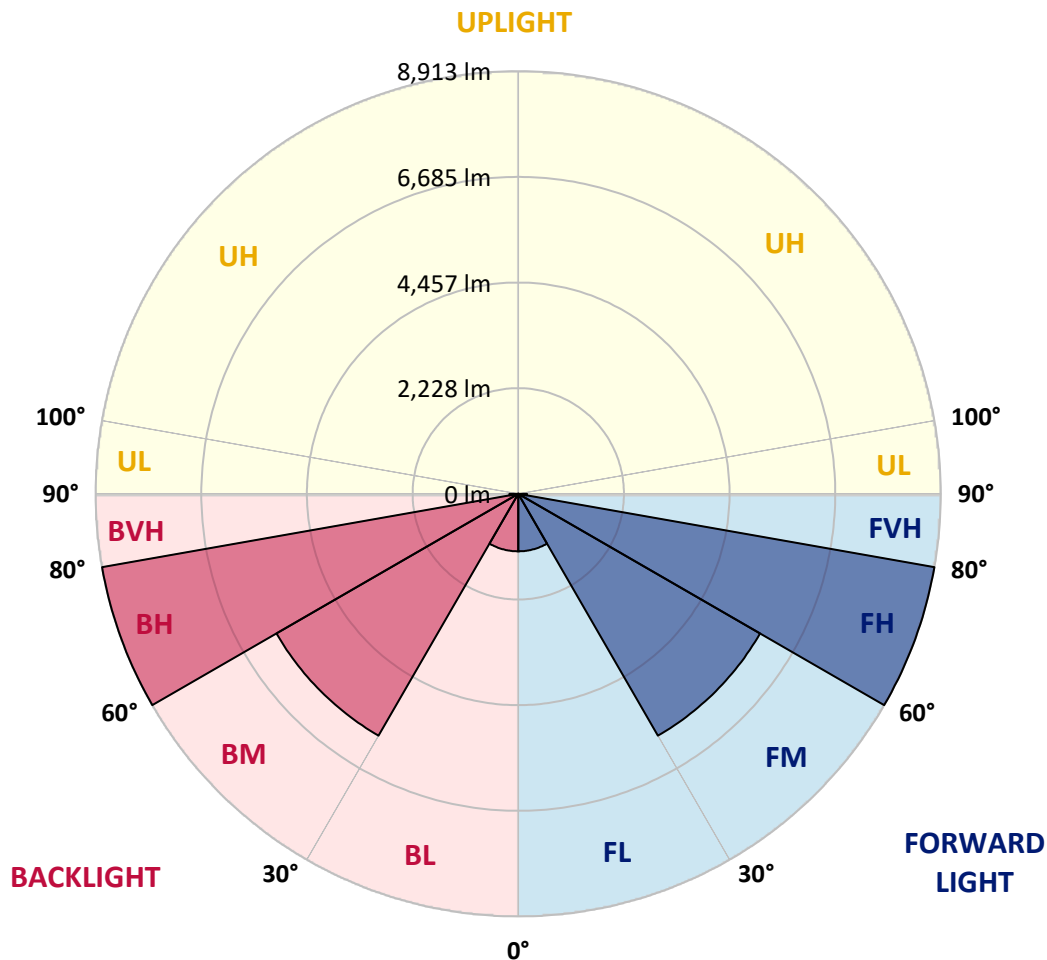
REPORT NUMBER: P968675
 CATALOG NUMBER: NAV-SB5C-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.9	3.7			
FM (30°-60°)	5889.4	18.2			
FH (60°-80°)	8913.2	27.5			G4/12000
FVH (80°-90°)	185.2	0.6			G2/225
BL (0°-30°)	1212.9	3.7	B3/2500		
BM (30°-60°)	5889.4	18.2	B4/8500		
BH (60°-80°)	8913.2	27.5	B5		G4/12000
BVH (80°-90°)	185.2	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



REPORT NUMBER: P968675
 CATALOG NUMBER: NAV-SB5C-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2955.7	2955.7	2955.7	2955.7	2955.7	2955.7	2955.7	2955.7	2955.7	2955.7	2955.7
2.5°	2937.1	2945.5	2942.2	2935.4	2935.4	2930.4	2935.4	2938.8	2943.9	2947.2	2945.5
5°	2898.4	2905.2	2903.4	2898.4	2900.0	2895.0	2898.4	2903.4	2906.8	2908.5	2908.5
7.5°	2864.7	2871.4	2868.1	2859.6	2859.6	2854.6	2856.3	2861.3	2866.4	2868.1	2868.1
10°	2856.3	2863.0	2852.9	2839.5	2834.4	2827.7	2829.3	2834.4	2844.5	2849.5	2849.5
12.5°	2859.6	2864.7	2854.6	2834.4	2829.3	2822.6	2822.6	2827.7	2841.1	2847.9	2849.5
15°	2869.8	2874.8	2859.6	2837.7	2832.7	2827.7	2825.9	2832.7	2847.9	2859.6	2861.3
17.5°	2888.2	2893.4	2869.8	2839.5	2832.7	2834.4	2832.7	2837.7	2861.3	2883.2	2883.2
20°	2905.2	2908.5	2876.5	2839.5	2832.7	2834.4	2832.7	2842.8	2873.2	2903.4	2905.2
22.5°	2910.2	2913.6	2883.2	2851.2	2846.2	2847.9	2846.2	2856.3	2885.0	2915.2	2915.2
25°	2911.8	2916.9	2893.4	2868.1	2876.5	2879.8	2876.5	2878.2	2900.0	2927.0	2925.4
27.5°	2937.1	2943.9	2922.0	2900.0	2905.2	2903.4	2908.5	2913.6	2930.4	2957.3	2950.6
30°	2989.3	2994.3	2975.9	2953.9	2950.6	2938.8	2953.9	2970.8	2989.3	3012.9	3007.9
32.5°	3075.2	3085.4	3061.8	3038.2	3023.0	3016.3	3028.1	3056.7	3082.0	3107.2	3097.1
35°	3218.4	3225.1	3203.2	3159.5	3132.5	3132.5	3142.5	3179.7	3220.0	3252.0	3240.2
37.5°	3420.4	3428.9	3390.2	3337.9	3297.5	3297.5	3311.0	3349.7	3410.4	3455.8	3439.0
40°	3666.3	3678.1	3629.3	3575.4	3536.7	3529.9	3546.8	3590.6	3647.9	3705.1	3686.5
42.5°	3962.8	3976.3	3912.2	3865.1	3834.7	3834.7	3843.1	3883.6	3935.8	4006.5	4001.5
45°	4341.7	4365.3	4277.7	4230.6	4201.9	4208.6	4213.7	4249.0	4296.2	4377.1	4373.7
47.5°	4793.0	4816.6	4724.0	4675.1	4670.1	4702.1	4681.9	4707.1	4732.4	4825.0	4798.1
50°	5305.0	5345.5	5281.4	5278.0	5288.2	5347.1	5300.0	5313.4	5284.8	5343.7	5308.4
52.5°	5931.5	5990.4	5978.6	5998.9	6111.7	6232.9	6125.2	6078.0	5970.2	5988.8	5926.4
55°	6691.1	6780.3	6797.2	6918.4	7174.4	7421.9	7192.9	7002.6	6773.6	6731.5	6665.8
57.5°	7555.0	7625.7	7706.6	7954.1	8432.5	8872.0	8432.5	8011.4	7651.0	7565.1	7504.4
60°	8484.6	8572.2	8649.7	9015.2	9725.8	10343.9	9712.4	9043.8	8567.2	8450.9	8350.0
62.5°	9483.3	9596.2	9650.1	10056.0	10884.6	11622.2	10896.4	10086.2	9557.4	9432.8	9331.8
65°	10441.6	10534.2	10594.9	11027.7	11819.3	12558.6	11873.1	11074.8	10530.8	10367.5	10286.7
67.5°	10887.9	10938.4	11086.6	11576.8	12412.0	13255.8	12553.5	11628.9	11020.9	10734.6	10738.0
70°	10234.4	10131.7	10488.7	11273.6	12482.8	13683.5	12644.4	11250.0	10505.6	10040.8	10151.9
72.5°	7908.7	7731.9	8351.6	9693.8	11674.3	13410.7	11755.2	9769.7	8737.3	7794.2	8028.2
75°	4303.0	4102.6	4958.1	6655.6	9309.9	11623.9	9523.8	6846.0	5520.5	4271.0	4548.8
77.5°	1214.2	1138.5	1829.0	3220.0	5599.8	8161.3	5815.3	3290.8	2169.2	1286.7	1429.9
80°	372.2	360.4	488.4	970.1	2378.0	3908.8	2285.3	981.8	621.5	392.4	414.3
82.5°	220.6	202.1	242.5	353.6	606.3	1227.7	589.5	368.8	296.4	198.7	215.6
85°	126.3	117.9	143.2	171.8	203.8	261.1	170.0	175.2	158.3	106.1	111.1
87.5°	52.2	47.2	55.6	53.9	47.2	60.6	45.5	53.9	64.0	42.1	38.7
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)