

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: P962974

Luminaire Tested: **NAV-SB2D-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21479.9 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 147.6
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

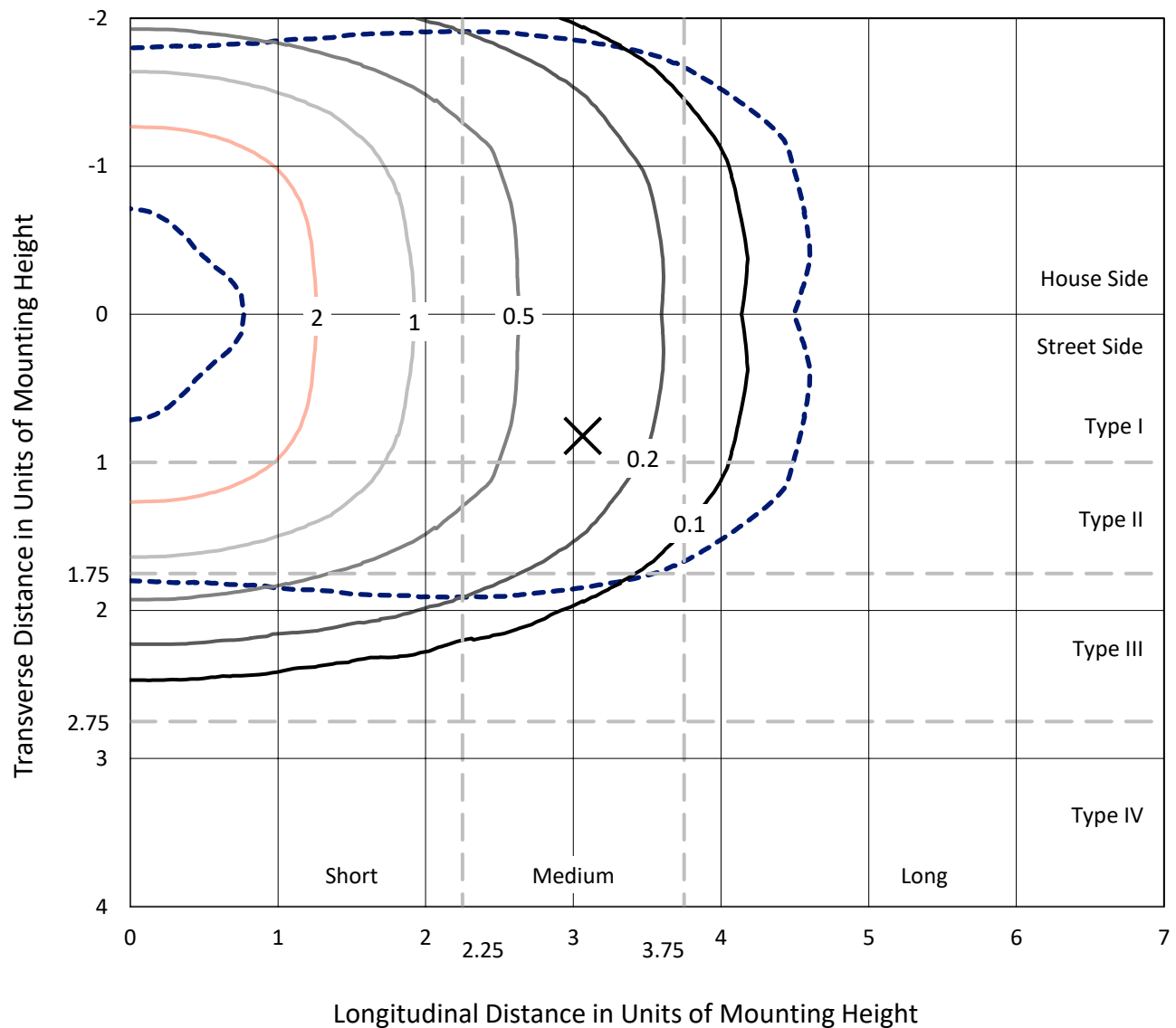


REPORT NUMBER: P962974

CATALOG NUMBER: NAV-SB2D-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

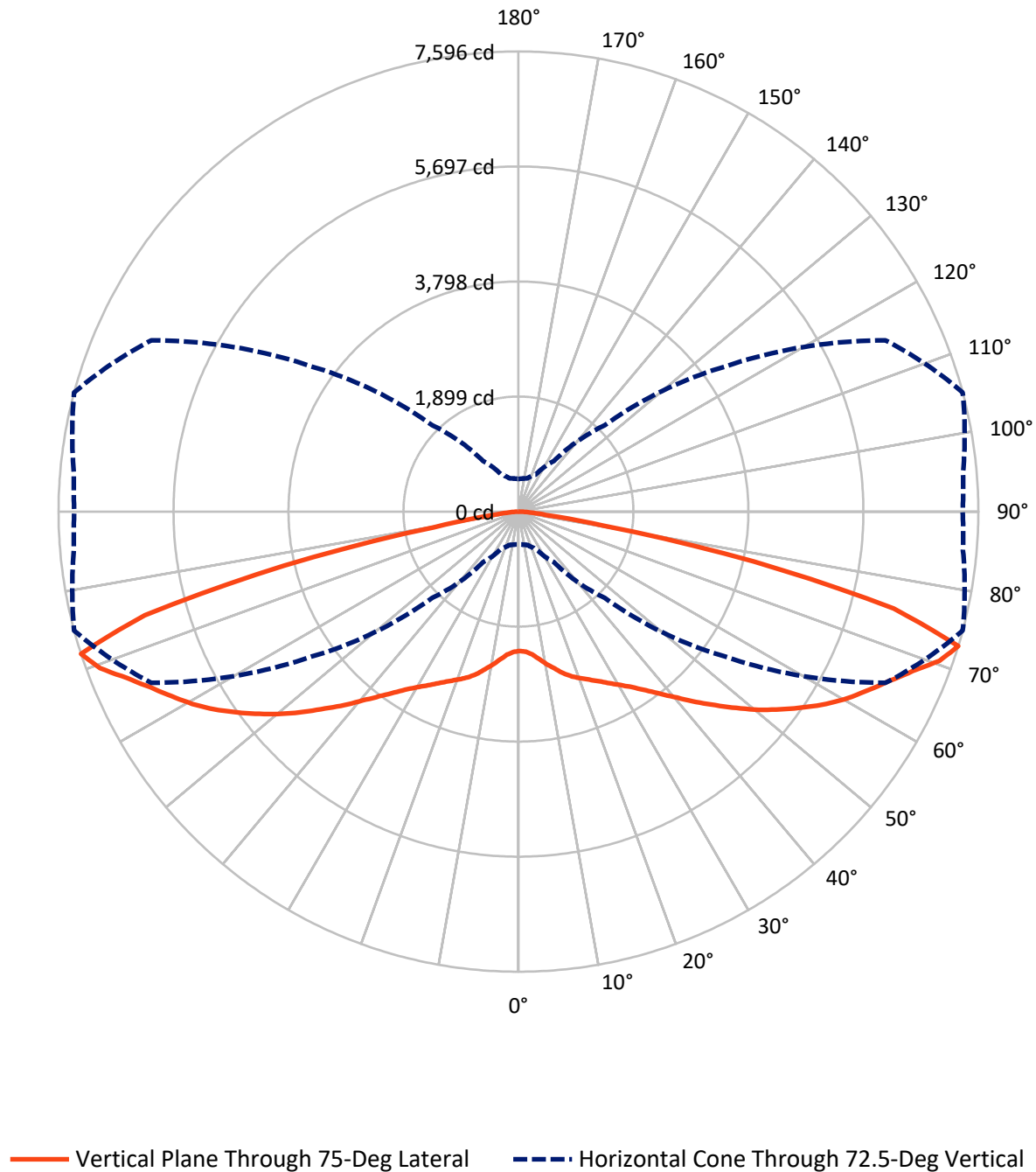


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

REPORT NUMBER: P962974

CATALOG NUMBER: NAV-SB2D-735-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10740.0	0.0	10740.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10740.0	0.0	10740.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21479.9	0.0	21479.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	1.0
10°-20°	743.4	3.5
20°-30°	1436.4	6.7
30°-40°	2425.5	11.3
40°-50°	3846.6	17.9
50°-60°	5150.1	24.0
60°-70°	4901.3	22.8
70°-80°	2557.6	11.9
80°-90°	193.6	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°	21479.9	100.0
0°-180°	21479.9	100.0

Coefficient of Utilization



REPORT NUMBER: P962974

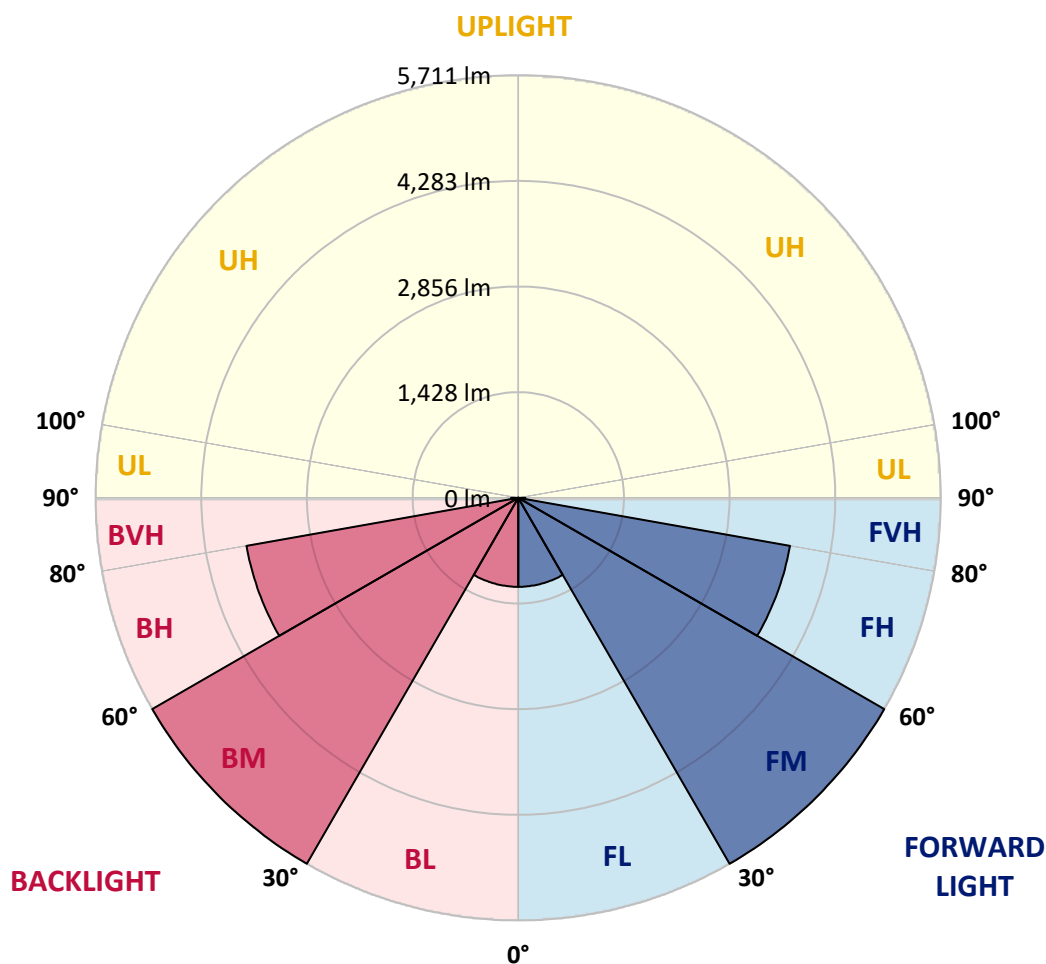
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1202.6	5.6			
FM	(30°-60°)	5711.1	26.6			
FH	(60°-80°)	3729.4	17.4			G2/5000
FVH	(80°-90°)	96.8	0.5			G1/100
BL	(0°-30°)	1202.6	5.6	B3/2500		
BM	(30°-60°)	5711.1	26.6	B4/8500		
BH	(60°-80°)	3729.4	17.4	B4/5000		G4/5000
BVH	(80°-90°)	96.8	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 III Medium



REPORT NUMBER: P962974

CATALOG NUMBER: NAV-SB2D-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9
2.5°	2300.9	2298.7	2300.9	2303.1	2301.9	2301.9	2307.5	2310.8	2317.3	2316.2	2315.2
5°	2285.5	2284.4	2293.2	2303.1	2310.8	2323.9	2340.4	2352.5	2367.8	2371.0	2371.0
7.5°	2277.9	2274.6	2290.0	2307.5	2331.6	2364.5	2396.2	2429.1	2455.5	2464.3	2466.5
10°	2283.3	2284.4	2305.2	2338.1	2376.6	2422.6	2467.6	2523.5	2560.8	2569.6	2578.4
12.5°	2308.6	2306.4	2341.5	2394.1	2446.8	2504.9	2557.5	2618.9	2659.5	2680.4	2689.1
15°	2354.6	2350.2	2399.6	2477.4	2554.2	2622.3	2665.0	2723.1	2770.3	2796.6	2806.4
17.5°	2409.5	2411.6	2476.4	2577.3	2678.1	2754.9	2795.5	2825.1	2861.3	2884.4	2895.3
20°	2505.9	2510.3	2582.7	2702.3	2817.4	2905.2	2938.1	2927.1	2936.9	2954.6	2967.7
22.5°	2635.4	2637.5	2718.7	2848.2	2968.8	3065.3	3087.2	3042.3	3014.8	3026.9	3035.6
25°	2785.6	2799.9	2881.1	3013.7	3137.6	3229.8	3239.6	3171.7	3103.7	3107.0	3112.4
27.5°	2968.8	2981.9	3064.2	3195.7	3321.9	3402.0	3400.8	3309.8	3210.1	3184.8	3192.5
30°	3167.2	3181.5	3266.0	3402.0	3519.3	3589.6	3574.2	3465.6	3323.0	3275.9	3281.3
32.5°	3403.1	3411.8	3497.4	3633.4	3742.0	3797.8	3766.1	3632.3	3454.7	3400.8	3414.1
35°	3688.3	3701.4	3765.0	3893.3	3988.7	4034.8	3981.0	3823.1	3623.5	3563.2	3571.9
37.5°	4013.9	4005.2	4077.6	4191.6	4270.6	4299.1	4225.6	4038.1	3816.5	3745.2	3758.4
40°	4353.9	4349.5	4428.5	4538.2	4580.9	4598.5	4489.9	4284.8	4039.1	3962.3	3987.7
42.5°	4662.1	4658.8	4765.1	4886.9	4938.4	4918.7	4781.6	4546.9	4296.9	4209.2	4231.1
45°	4908.8	4904.4	5035.0	5206.1	5306.9	5274.0	5089.8	4836.5	4557.9	4466.8	4487.8
47.5°	5098.6	5100.8	5241.1	5452.8	5629.4	5641.4	5404.5	5131.5	4845.3	4742.2	4772.8
50°	5235.7	5242.3	5392.5	5627.1	5868.4	5974.8	5725.9	5434.1	5142.4	5026.2	5061.2
52.5°	5269.6	5281.7	5462.6	5738.0	6022.0	6224.9	6052.7	5724.8	5424.3	5313.5	5342.0
55°	5088.7	5112.8	5342.0	5729.1	6116.3	6389.3	6340.0	6019.8	5708.3	5594.2	5626.1
57.5°	4673.1	4707.0	4974.6	5480.3	6095.5	6502.4	6562.7	6302.7	5992.4	5882.7	5907.9
60°	4090.7	4131.3	4387.9	4939.6	5801.6	6544.0	6719.5	6578.0	6253.4	6147.0	6170.1
62.5°	3212.2	3264.9	3571.9	4219.0	5180.9	6349.9	6853.3	6827.0	6488.0	6355.4	6370.8
65°	2060.7	2116.6	2440.1	3204.6	4352.8	5755.5	6895.0	7069.3	6736.0	6550.6	6573.6
67.5°	1242.6	1267.8	1427.9	1942.3	3181.5	4859.5	6541.9	7338.1	7025.5	6795.1	6812.8
70°	795.1	809.3	904.8	1140.6	1798.6	3545.7	5666.7	7388.5	7376.4	7046.4	7044.1
72.5°	539.6	544.0	569.2	675.6	1017.7	2014.6	4179.5	6688.7	7595.8	7369.9	7334.7
75°	394.8	418.9	459.5	478.2	578.0	1006.8	2395.2	4699.4	6401.4	6500.1	6261.1
77.5°	293.9	295.0	351.0	372.9	412.4	536.3	1013.3	2623.3	3974.4	4173.0	3722.2
80°	249.0	235.7	234.7	300.5	310.4	334.5	452.9	905.9	1423.5	863.2	652.5
82.5°	207.3	193.0	174.4	234.7	211.7	205.1	196.3	368.5	452.9	222.6	189.7
85°	144.7	138.2	131.6	153.5	120.6	103.1	94.3	172.2	190.9	94.3	83.3
87.5°	62.5	64.7	65.8	68.0	50.4	36.2	36.2	48.3	48.3	37.3	27.4
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)