

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: P971541

Luminaire Tested: **NAV-SB6D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54410.1 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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



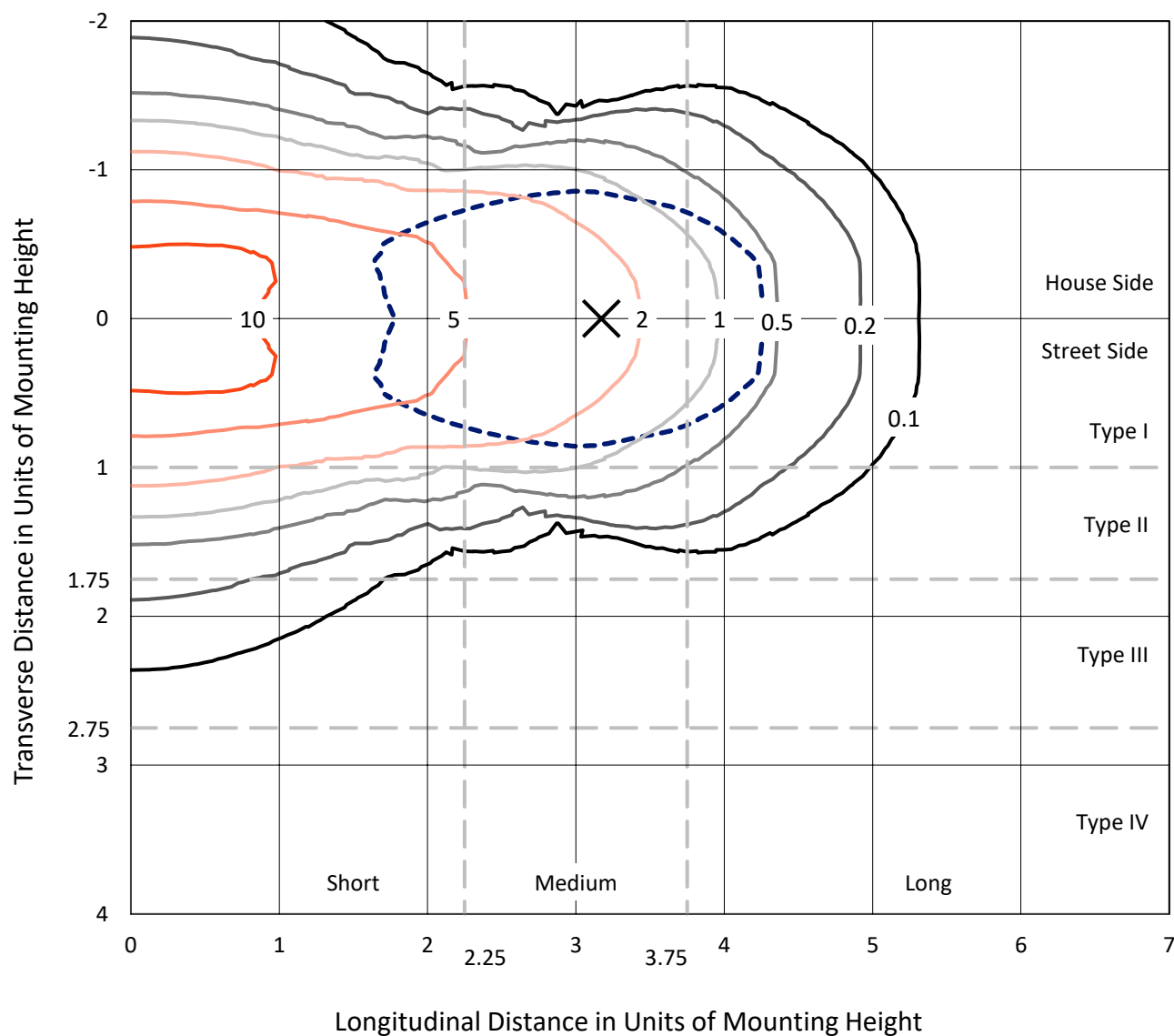
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

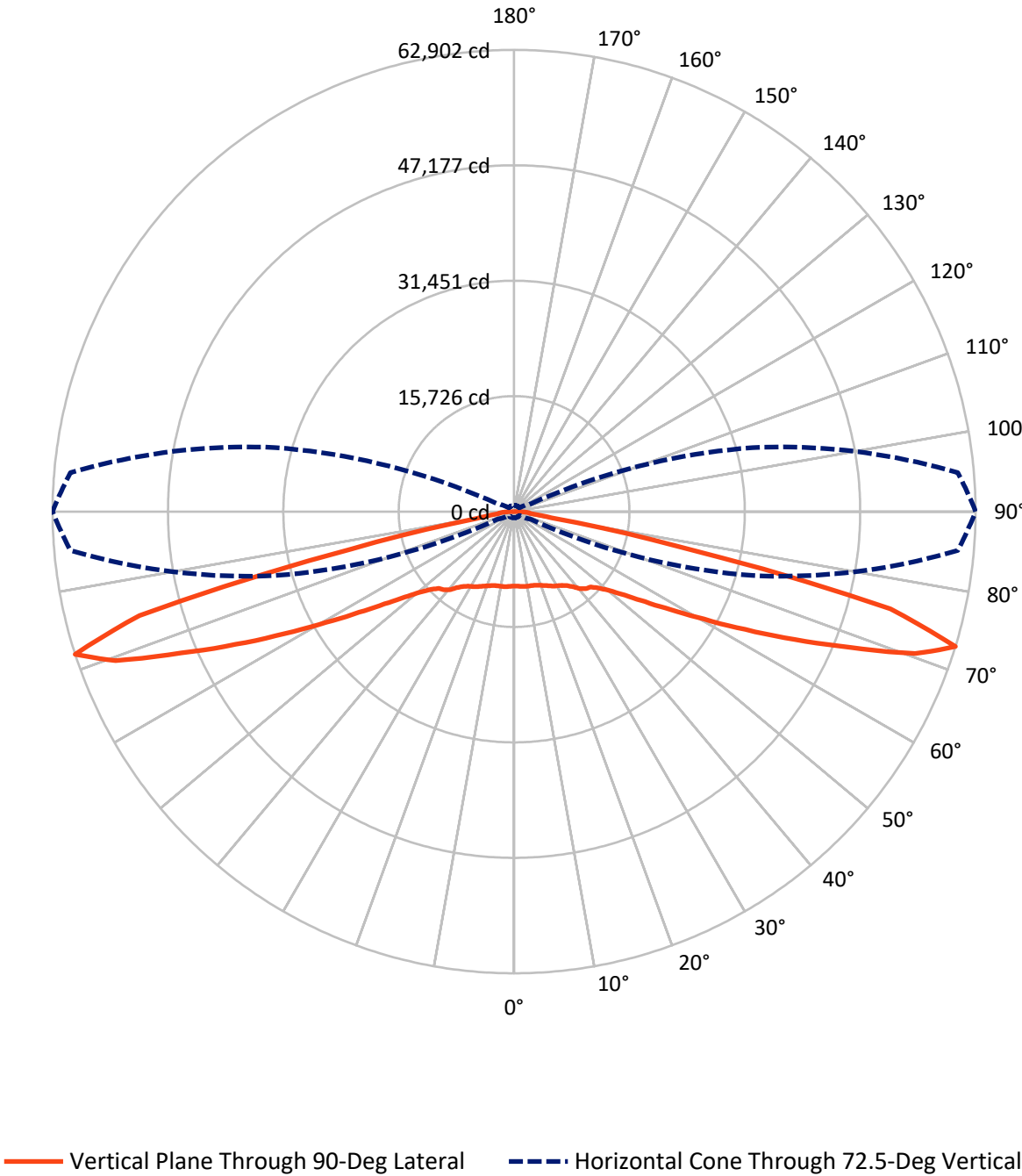


Based on 25 foot mounting height. Maximum calculated value = 16.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27205.0	0.0	27205.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27205.0	0.0	27205.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54410.1	0.0	54410.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.8	1.8
10°-20°	3014.3	5.5
20°-30°	5026.0	9.2
30°-40°	6912.3	12.7
40°-50°	8441.8	15.5
50°-60°	9763.9	17.9
60°-70°	11641.8	21.4
70°-80°	8125.2	14.9
80°-90°	499.1	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°	54410.1	100.0
0°-180°	54410.1	100.0

Coefficient of Utilization



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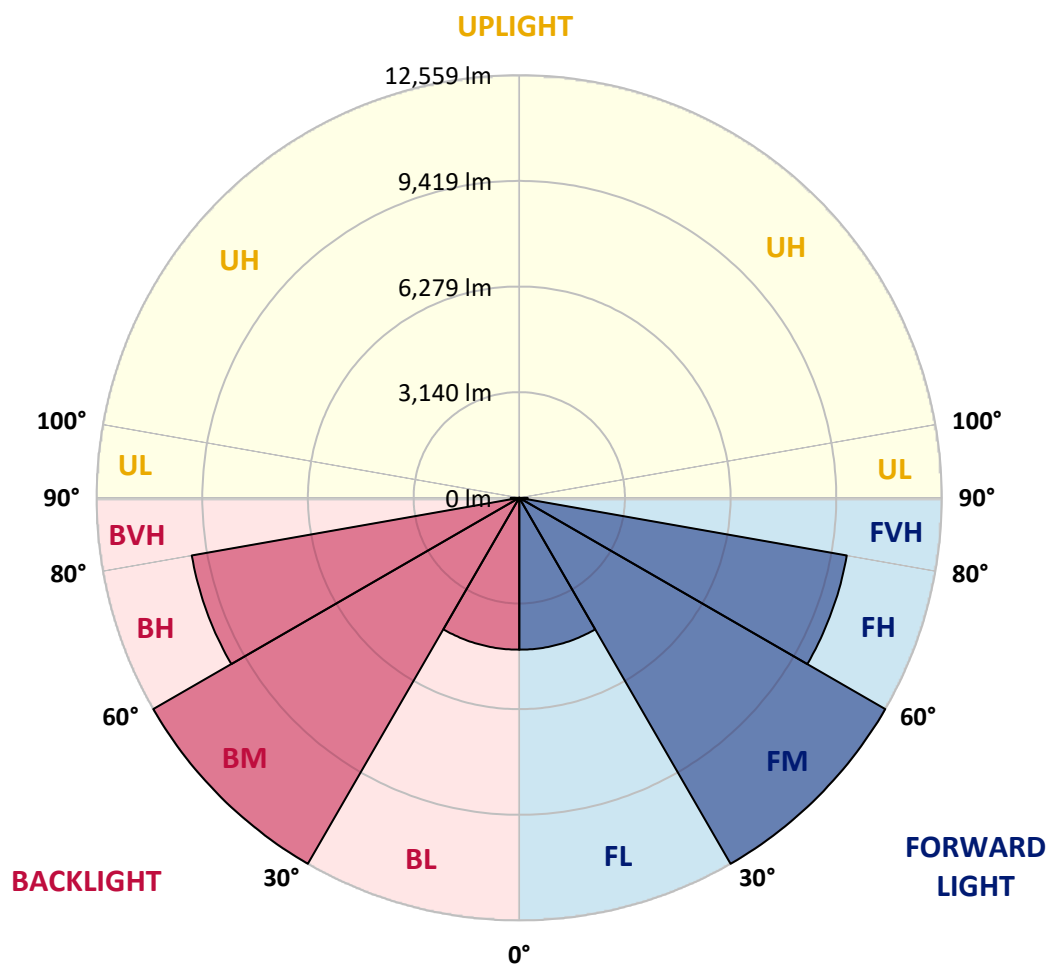
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4513.0	8.3			
FM	(30°-60°)	12559.0	23.1			
FH	(60°-80°)	9883.5	18.2			G4/12000
FVH	(80°-90°)	249.5	0.5			G3/500
BL	(0°-30°)	4513.0	8.3	B4/5000		
BM	(30°-60°)	12559.0	23.1	B5		
BH	(60°-80°)	9883.5	18.2	B5		G5
BVH	(80°-90°)	249.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10167.1	10167.1	10167.1	10167.1	10167.1	10167.1	10167.1	10167.1	10167.1	10167.1	10167.1
2.5°	10175.8	10187.4	10187.4	10178.7	10199.0	10181.5	10181.5	10172.9	10181.5	10172.9	10172.9
5°	10227.9	10242.3	10248.1	10245.2	10271.2	10256.8	10256.8	10245.2	10248.1	10239.3	10239.3
7.5°	10326.2	10346.3	10357.9	10372.4	10410.0	10392.7	10381.1	10346.3	10331.9	10308.8	10308.8
10°	10357.9	10381.1	10418.7	10493.8	10580.6	10583.5	10548.8	10462.1	10395.6	10343.5	10334.8
12.5°	10259.6	10291.4	10369.5	10522.8	10716.5	10794.6	10739.6	10595.0	10464.9	10372.4	10357.9
15°	10135.3	10169.9	10288.5	10519.9	10806.2	10988.3	10982.6	10791.7	10583.5	10438.9	10415.7
17.5°	9941.6	9976.2	10146.9	10470.7	10875.6	11176.3	11257.3	11060.7	10768.5	10574.8	10543.0
20°	9591.6	9623.4	9860.6	10314.6	10898.7	11375.9	11586.9	11413.4	11049.1	10785.9	10736.8
22.5°	9137.7	9186.9	9464.4	10045.6	10843.8	11584.0	11962.8	11844.3	11375.9	11011.5	10944.9
25°	8651.8	8703.9	9027.8	9716.0	10702.0	11734.4	12408.1	12333.0	11746.0	11291.9	11199.5
27.5°	8232.6	8287.5	8640.3	9389.2	10482.3	11792.2	12847.7	12885.3	12194.1	11601.4	11503.1
30°	7903.0	7954.9	8330.9	9126.1	10199.0	11734.4	13232.2	13492.5	12651.1	11870.3	11728.6
32.5°	7541.4	7608.0	8004.1	8805.2	9863.5	11595.6	13567.7	14148.9	13180.2	12159.5	11980.2
35°	7084.6	7145.3	7561.7	8365.6	9424.0	11372.9	13848.2	14877.7	13937.8	12599.0	12399.4
37.5°	6529.4	6587.3	7000.7	7816.1	8987.3	11060.7	14062.2	15698.9	14840.1	13232.2	12966.2
40°	5971.2	6026.3	6413.7	7203.2	8463.9	10661.5	14137.3	16502.7	15875.2	14102.7	13819.3
42.5°	5459.5	5508.7	5864.3	6598.7	7876.9	10152.6	14039.0	17202.5	16803.4	14709.9	14345.6
45°	4988.2	5031.5	5346.7	6032.0	7266.7	9533.8	13744.1	17954.3	17908.1	15143.7	14652.1
47.5°	4450.2	4493.6	4820.4	5482.6	6656.7	8808.0	13243.8	18694.7	19443.5	16126.8	15560.0
50°	3793.8	3831.4	4166.9	4849.3	6023.3	8035.9	12549.8	19275.8	21381.0	17616.1	16904.7
52.5°	3016.0	3056.4	3383.2	4065.7	5271.5	7206.1	11636.1	19654.7	23619.1	19790.6	18914.4
55°	2243.9	2272.8	2556.2	3169.3	4340.4	6260.5	10491.0	19761.7	26158.0	22763.2	21667.3
57.5°	1628.0	1645.3	1827.6	2284.4	3290.8	5077.7	9100.1	19484.0	29179.8	26574.5	25195.1
60°	1318.6	1324.4	1379.3	1581.8	2287.3	3741.9	7420.0	18529.7	32459.0	31487.4	29749.5
62.5°	1197.2	1197.2	1211.7	1266.6	1547.0	2469.5	5387.2	16551.9	35975.2	37695.7	35367.9
65°	1113.3	1113.3	1119.1	1145.1	1220.3	1573.1	3400.6	13330.5	38939.1	44968.3	42024.6
67.5°	1038.1	1041.0	1038.1	1046.8	1090.2	1162.5	1972.1	9207.1	40535.4	52504.0	49326.1
70°	960.0	965.9	951.4	951.4	986.0	988.9	1234.7	5048.8	39211.0	58819.4	57983.6
72.5°	867.5	876.2	853.0	847.3	873.3	861.7	928.2	2423.2	33664.8	60704.7	62902.4
75°	786.5	798.1	746.1	731.5	731.5	722.9	754.7	1243.4	21849.4	49519.8	52966.7
77.5°	714.2	737.4	653.5	607.2	595.7	569.7	615.9	760.6	9557.0	23248.9	22766.1
80°	589.9	621.7	537.8	482.9	462.7	433.8	485.8	532.1	2842.5	5398.8	5170.3
82.5°	439.5	454.0	381.7	344.1	326.8	306.5	364.4	370.1	925.4	1911.4	2160.1
85°	280.5	286.3	234.2	202.4	193.7	185.1	231.3	202.4	352.8	1405.4	2041.5
87.5°	98.3	112.7	89.7	81.0	86.7	72.3	107.0	60.7	98.3	991.9	1229.0
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)