

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: P885505

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

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885505  
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-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: ELECTRONIC DRIVER

**Summary**

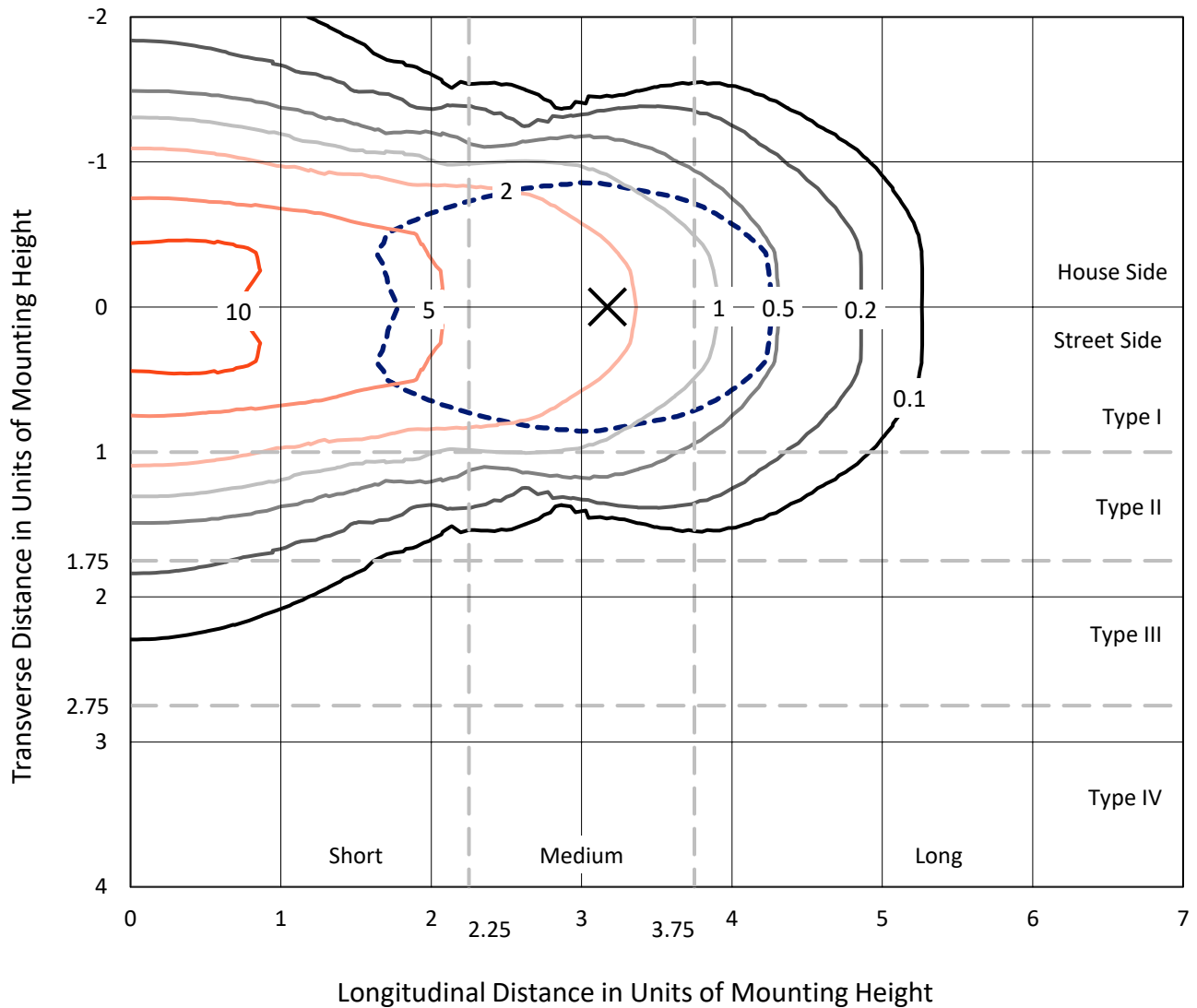
Lumens per Lamp: N/A  
Luminaire Lumens: 49646 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

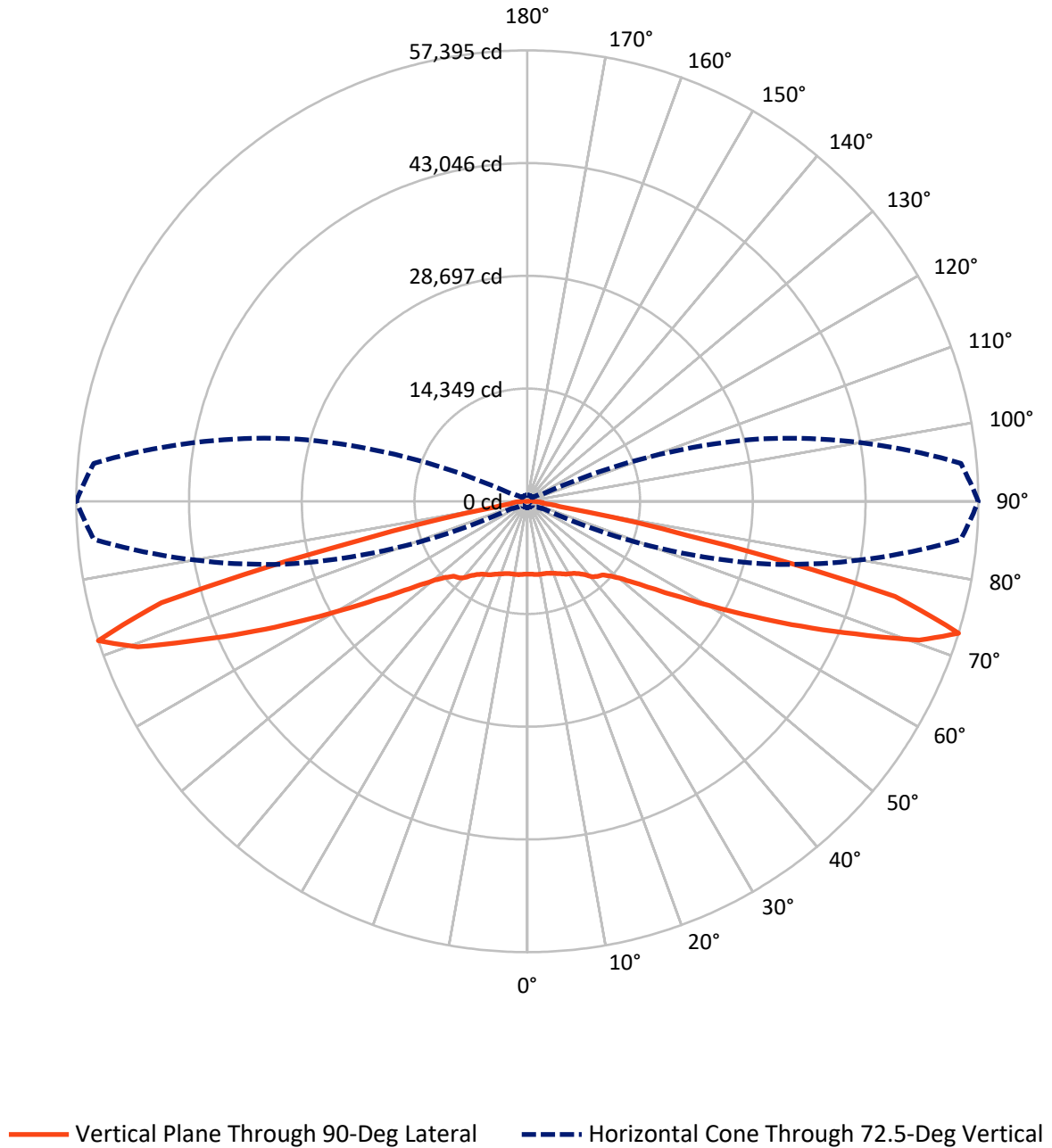
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24823.0	0.0	24823.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24823.0	0.0	24823.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49646.0	0.0	49646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	899.5	1.8
10°-20°	2750.3	5.5
20°-30°	4585.9	9.2
30°-40°	6307.1	12.7
40°-50°	7702.7	15.5
50°-60°	8908.9	17.9
60°-70°	10622.4	21.4
70°-80°	7413.8	14.9
80°-90°	455.4	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°	49646.0	100.0
0°-180°	49646.0	100.0

**Coefficient of Utilization**



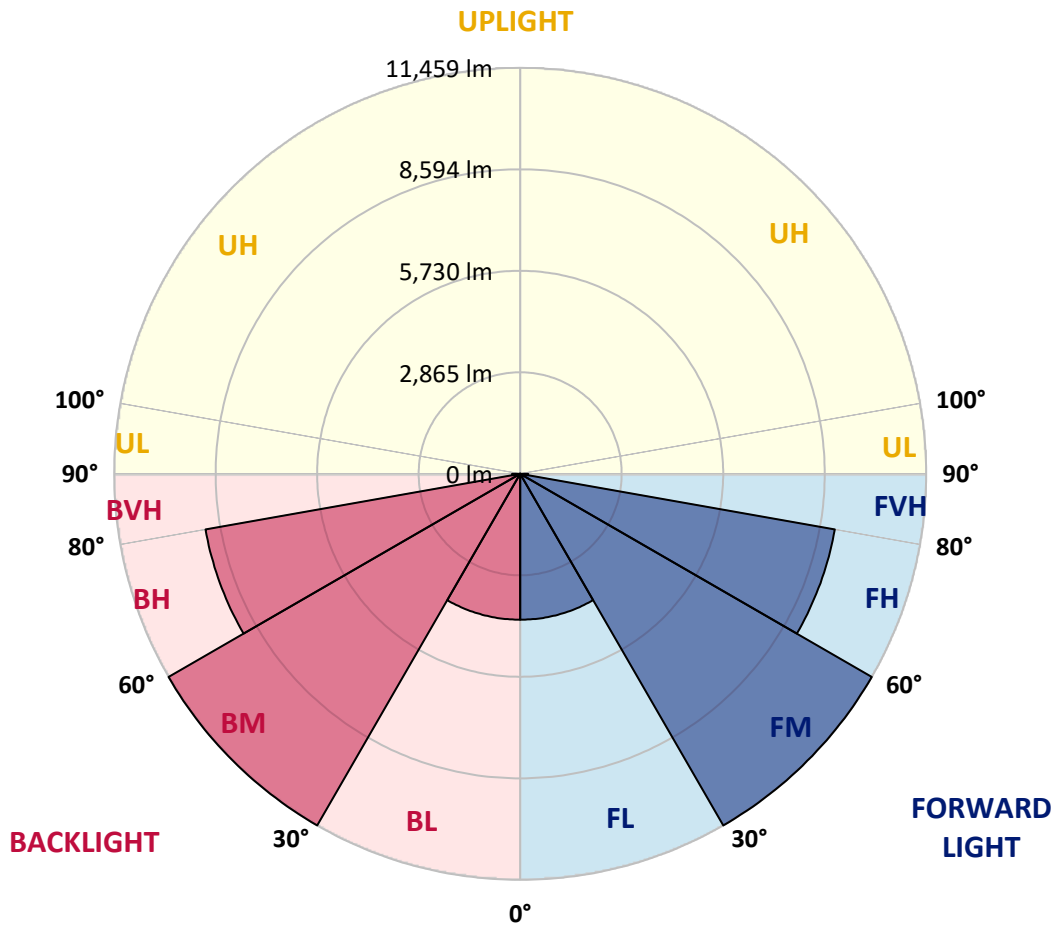
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.9	8.3			
FM (30°-60°)	11459.3	23.1			
FH (60°-80°)	9018.1	18.2			G4/12000
FVH (80°-90°)	227.7	0.5			G3/500
BL (0°-30°)	4117.9	8.3	B4/5000		
BM (30°-60°)	11459.3	23.1	B5		
BH (60°-80°)	9018.1	18.2	B5		G5
BVH (80°-90°)	227.7	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°	9276.9	9276.9	9276.9	9276.9	9276.9	9276.9	9276.9	9276.9	9276.9	9276.9	9276.9
2.5°	9284.8	9295.3	9295.3	9287.4	9305.9	9290.1	9290.1	9282.2	9290.1	9282.2	9282.2
5°	9332.3	9345.5	9350.8	9348.1	9371.9	9358.7	9358.7	9348.1	9350.8	9342.8	9342.8
7.5°	9422.0	9440.5	9451.0	9464.2	9498.5	9482.7	9472.1	9440.5	9427.3	9406.2	9406.2
10°	9451.0	9472.1	9506.4	9575.0	9654.2	9656.8	9625.2	9546.0	9485.3	9437.8	9429.9
12.5°	9361.3	9390.3	9461.6	9601.4	9778.2	9849.4	9799.3	9667.4	9548.6	9464.2	9451.0
15°	9247.9	9279.5	9387.7	9598.8	9860.0	10026.2	10020.9	9846.8	9656.8	9524.9	9503.8
17.5°	9071.1	9102.7	9258.4	9553.9	9923.3	10197.7	10271.6	10092.2	9825.7	9648.9	9619.9
20°	8751.8	8780.8	8997.2	9411.4	9944.4	10379.8	10572.4	10414.1	10081.6	9841.5	9796.7
22.5°	8337.6	8382.4	8635.7	9166.1	9894.3	10569.7	10915.4	10807.2	10379.8	10047.3	9986.6
25°	7894.3	7941.8	8237.3	8865.3	9765.0	10706.9	11321.7	11253.1	10717.5	10303.2	10218.8
27.5°	7511.7	7561.9	7883.8	8567.1	9564.5	10759.7	11722.7	11757.0	11126.5	10585.6	10495.9
30°	7211.0	7258.4	7601.4	8327.0	9305.9	10706.9	12073.7	12311.1	11543.3	10830.9	10701.7
32.5°	6881.1	6941.8	7303.3	8034.2	8999.8	10580.3	12379.7	12910.1	12026.2	11094.8	10931.2
35°	6464.3	6519.7	6899.6	7633.1	8598.8	10377.1	12635.7	13575.0	12717.5	11495.8	11313.8
37.5°	5957.7	6010.4	6387.7	7131.8	8200.4	10092.2	12830.9	14324.3	13540.7	12073.7	11830.9
40°	5448.5	5498.6	5852.1	6572.4	7722.8	9728.1	12899.5	15057.8	14485.2	12867.8	12609.3
42.5°	4981.4	5026.3	5350.8	6021.0	7187.2	9263.7	12809.8	15696.3	15332.2	13421.9	13089.5
45°	4551.4	4590.9	4878.5	5503.9	6630.5	8699.1	12540.7	16382.3	16340.1	13817.7	13369.2
47.5°	4060.6	4100.2	4398.3	5002.5	6073.8	8036.8	12084.2	17057.7	17741.1	14714.8	14197.6
50°	3461.7	3496.0	3802.0	4424.7	5495.9	7332.3	11451.0	17588.1	19508.9	16073.6	15424.5
52.5°	2751.9	2788.9	3087.0	3709.7	4809.9	6575.1	10617.2	17933.7	21551.1	18057.7	17258.3
55°	2047.5	2073.8	2332.4	2891.8	3960.4	5712.3	9572.4	18031.3	23867.6	20770.1	19770.1
57.5°	1485.5	1501.3	1667.5	2084.4	3002.6	4633.2	8303.3	17778.0	26624.9	24247.6	22989.0
60°	1203.1	1208.4	1258.6	1443.2	2087.0	3414.2	6770.3	16907.3	29616.9	28730.4	27144.6
62.5°	1092.3	1092.3	1105.5	1155.7	1411.6	2253.3	4915.5	15102.6	32825.3	34395.2	32271.2
65°	1015.8	1015.8	1021.1	1044.8	1113.4	1435.3	3102.8	12163.4	35529.7	41030.9	38345.0
67.5°	947.2	949.9	947.2	955.1	994.7	1060.7	1799.4	8400.9	36986.1	47906.8	45007.1
70°	876.0	881.3	868.1	868.1	899.7	902.4	1126.6	4606.8	35777.7	53669.2	52906.7
72.5°	791.5	799.5	778.4	773.1	796.8	786.3	847.0	2211.0	30717.1	55389.5	57394.8
75°	717.7	728.2	680.7	667.5	667.5	659.6	688.6	1134.5	19936.3	45183.9	48329.0
77.5°	651.7	672.8	596.3	554.1	543.5	519.8	562.0	693.9	8720.2	21213.3	20772.7
80°	538.2	567.3	490.8	440.6	422.2	395.8	443.3	485.5	2593.6	4926.0	4717.6
82.5°	401.0	414.2	348.3	314.0	298.1	279.7	332.4	337.7	844.3	1744.0	1970.9
85°	255.9	261.2	213.7	184.7	176.8	168.9	211.1	184.7	321.9	1282.3	1862.8
87.5°	89.7	102.9	81.8	73.9	79.2	66.0	97.6	55.4	89.7	905.0	1121.4
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)