

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: P885465

Luminaire Tested: **NAV-SB6D-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885465
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61102 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

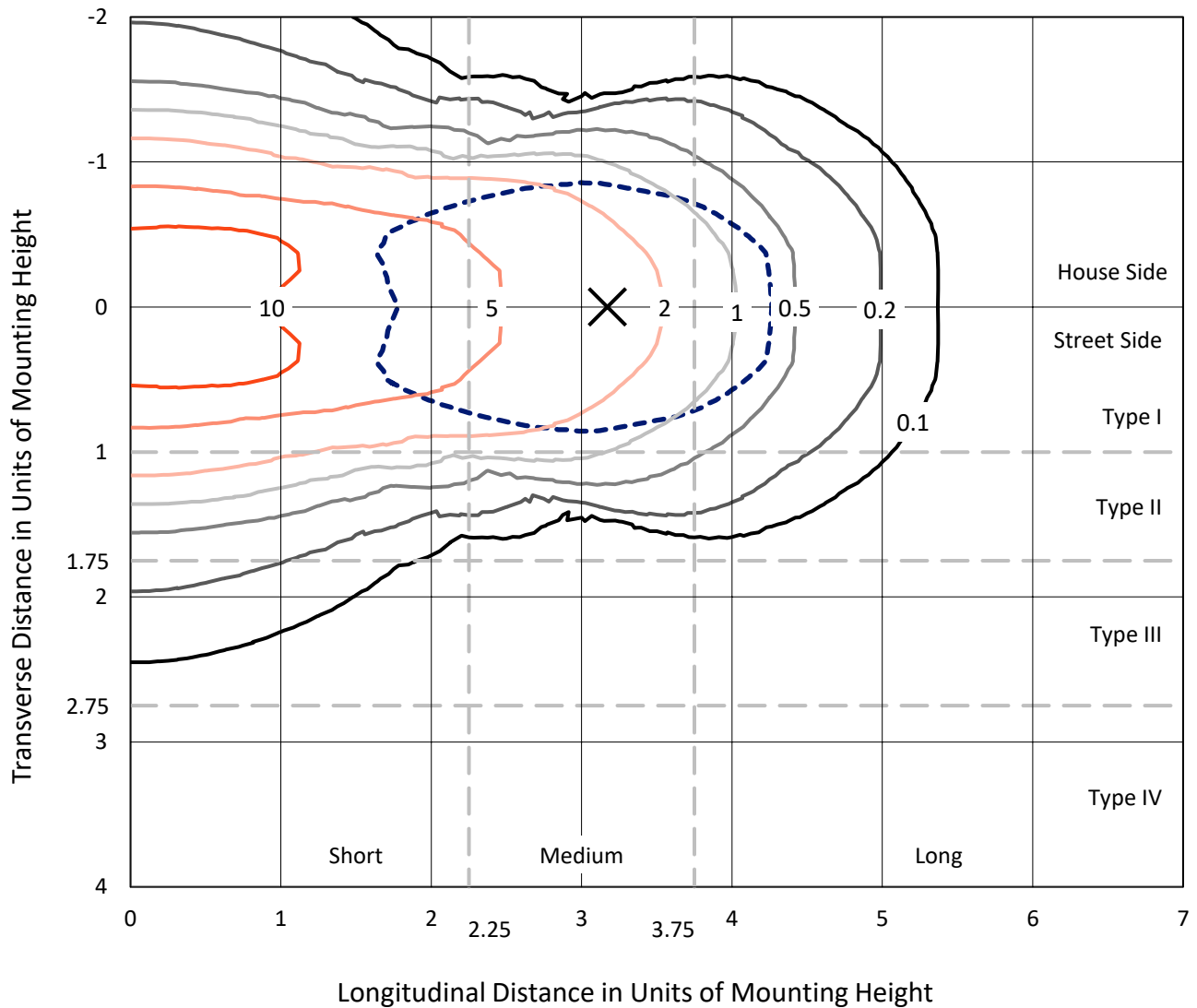
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

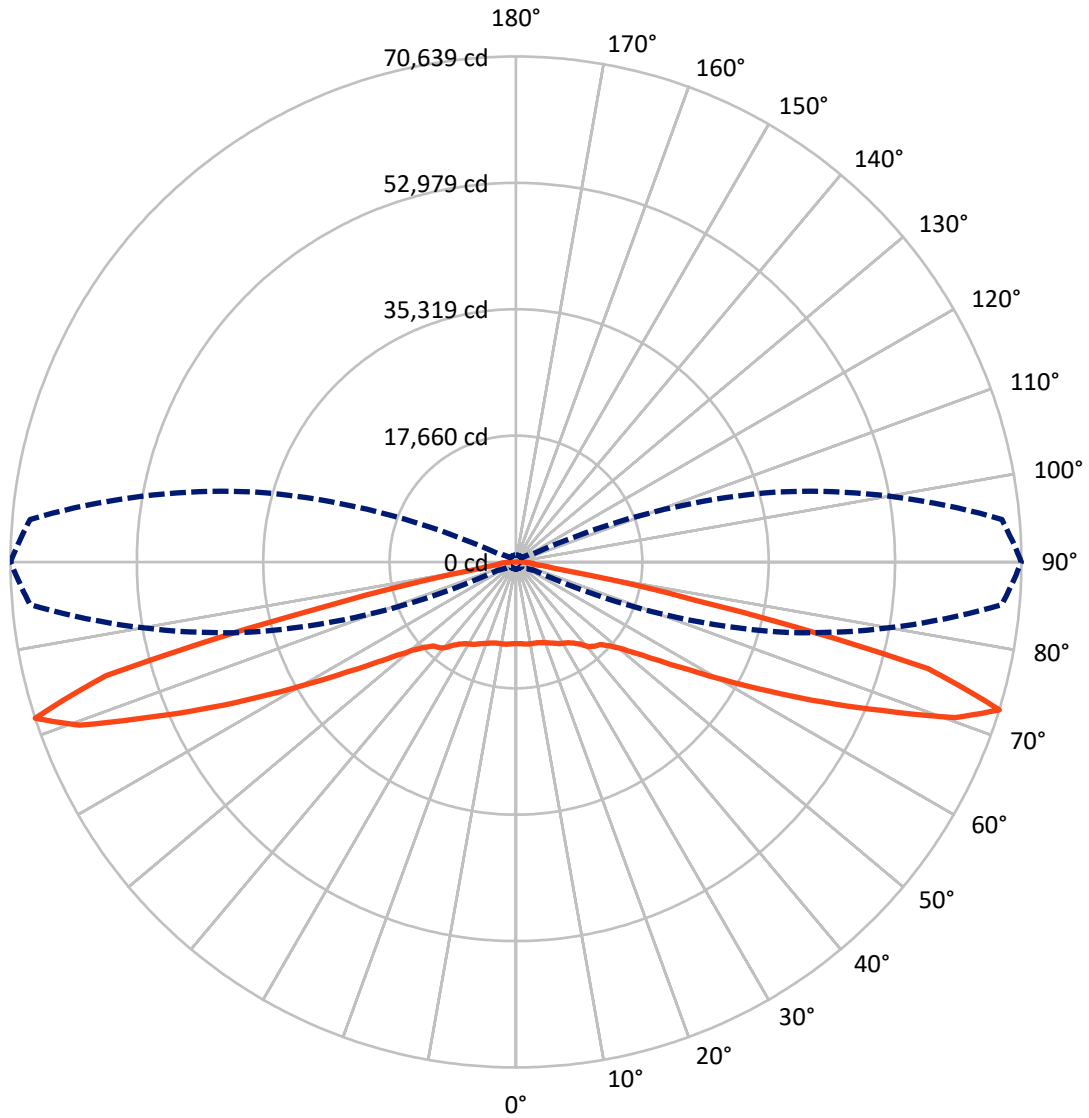
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30551.0	0.0	30551.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30551.0	0.0	30551.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	61102.0	0.0	61102.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1107.1	1.8
10°-20°	3385.0	5.5
20°-30°	5644.1	9.2
30°-40°	7762.5	12.7
40°-50°	9480.1	15.5
50°-60°	10964.7	17.9
60°-70°	13073.6	21.4
70°-80°	9124.5	14.9
80°-90°	560.4	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°	61102.0	100.0
0°-180°	61102.0	100.0



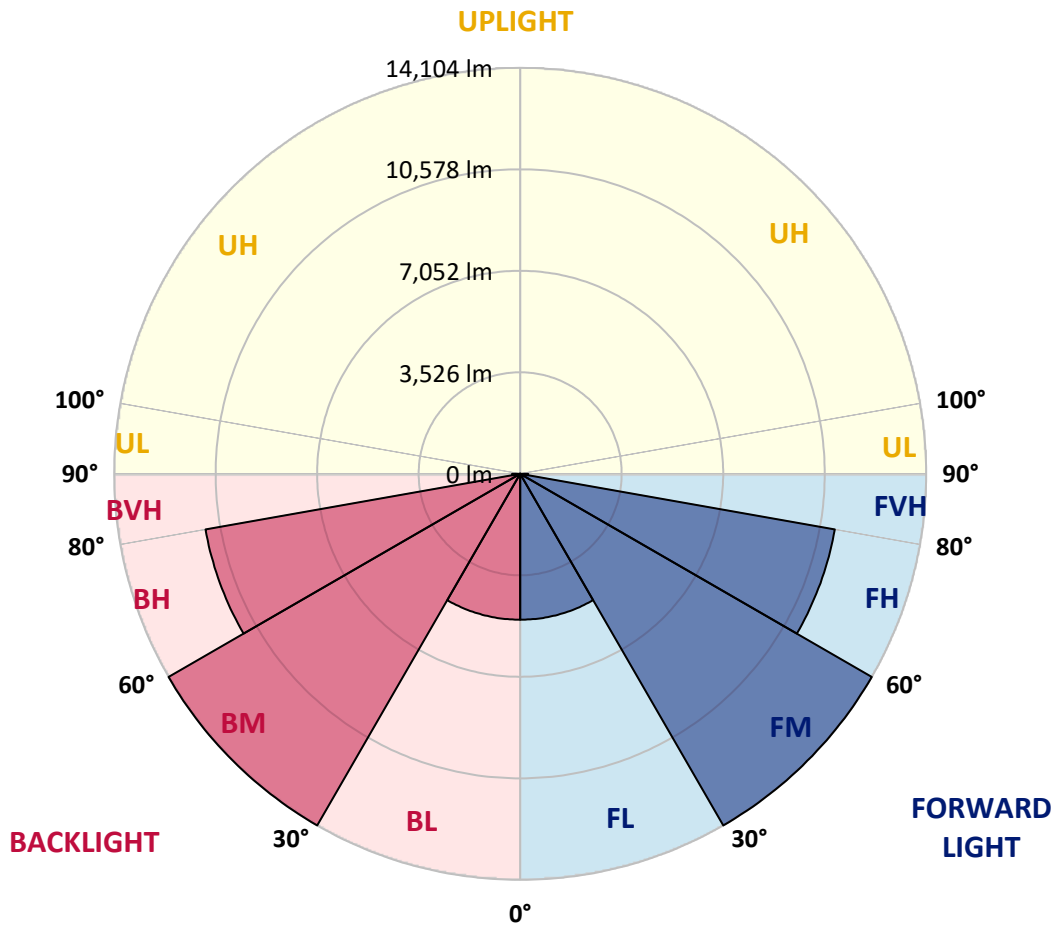
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5068.1	8.3			
FM (30°-60°)	14103.6	23.1			
FH (60°-80°)	11099.1	18.2			G4/12000
FVH (80°-90°)	280.2	0.5			G3/500
BL (0°-30°)	5068.1	8.3	B5		
BM (30°-60°)	14103.6	23.1	B5		
BH (60°-80°)	11099.1	18.2	B5		G5
BVH (80°-90°)	280.2	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°	11417.6	11417.6	11417.6	11417.6	11417.6	11417.6	11417.6	11417.6	11417.6	11417.6	11417.6
2.5°	11427.3	11440.3	11440.3	11430.5	11453.3	11433.8	11433.8	11424.0	11433.8	11424.0	11424.0
5°	11485.7	11502.0	11508.5	11505.2	11534.5	11518.2	11518.2	11505.2	11508.5	11498.7	11498.7
7.5°	11596.2	11618.9	11631.9	11648.1	11690.3	11670.8	11657.9	11618.9	11602.7	11576.7	11576.7
10°	11631.9	11657.9	11700.1	11784.5	11881.9	11885.2	11846.2	11748.8	11674.1	11615.6	11605.9
12.5°	11521.5	11557.2	11644.9	11817.0	12034.5	12122.2	12060.5	11898.2	11752.0	11648.1	11631.9
15°	11381.8	11420.8	11553.9	11813.7	12135.2	12339.8	12333.3	12119.0	11885.2	11722.8	11696.8
17.5°	11164.3	11203.2	11394.8	11758.5	12213.1	12550.9	12641.8	12421.0	12093.0	11875.4	11839.7
20°	10771.3	10807.1	11073.3	11583.2	12239.1	12774.9	13012.0	12817.1	12408.0	12112.5	12057.3
22.5°	10261.5	10316.7	10628.5	11281.2	12177.4	13008.7	13434.1	13301.0	12774.9	12365.8	12291.1
25°	9716.0	9774.4	10138.1	10911.0	12018.3	13177.6	13934.2	13849.8	13190.6	12680.8	12576.8
27.5°	9245.1	9306.8	9703.0	10544.0	11771.5	13242.5	14427.8	14470.0	13693.9	13028.2	12917.8
30°	8874.9	8933.4	9355.5	10248.5	11453.3	13177.6	14859.7	15152.0	14207.0	13330.2	13171.1
32.5°	8469.0	8543.7	8988.6	9888.1	11076.6	13021.7	15236.4	15889.1	14801.3	13655.0	13453.6
35°	7955.9	8024.1	8491.7	9394.5	10583.0	12771.7	15551.4	16707.4	15652.1	14148.5	13924.5
37.5°	7332.4	7397.4	7861.7	8777.5	10092.6	12421.0	15791.7	17629.7	16665.2	14859.7	14561.0
40°	6705.7	6767.4	7202.5	8089.1	9504.9	11972.8	15876.1	18532.4	17827.8	15837.1	15518.9
42.5°	6130.9	6186.1	6585.6	7410.4	8845.7	11401.3	15765.7	19318.3	18870.1	16519.1	16109.9
45°	5601.6	5650.3	6004.3	6773.9	8160.5	10706.4	15434.5	20162.6	20110.6	17006.2	16454.1
47.5°	4997.6	5046.3	5413.3	6156.9	7475.3	9891.3	14872.7	20993.9	21834.9	18110.3	17473.8
50°	4260.5	4302.7	4679.4	5445.7	6764.2	9024.3	14093.3	21646.6	24010.6	19782.6	18983.8
52.5°	3386.9	3432.4	3799.4	4565.7	5919.9	8092.3	13067.2	22072.0	26524.1	22224.6	21240.7
55°	2519.9	2552.4	2870.6	3559.1	4874.2	7030.4	11781.3	22192.1	29375.2	25562.9	24332.1
57.5°	1828.2	1847.7	2052.3	2565.4	3695.4	5702.3	10219.3	21880.4	32768.6	29842.8	28293.8
60°	1480.8	1487.3	1549.0	1776.3	2568.6	4202.0	8332.6	20808.8	36451.1	35360.0	33408.4
62.5°	1344.4	1344.4	1360.6	1422.3	1737.3	2773.2	6049.7	18587.6	40399.8	42332.0	39717.9
65°	1250.2	1250.2	1256.7	1285.9	1370.4	1766.5	3818.8	14970.1	43728.3	50499.0	47193.2
67.5°	1165.8	1169.0	1165.8	1175.5	1224.2	1305.4	2214.7	10339.4	45520.8	58961.5	55392.7
70°	1078.1	1084.6	1068.4	1068.4	1107.3	1110.6	1386.6	5669.8	44033.6	66053.6	65115.1
72.5°	974.2	983.9	958.0	951.5	980.7	967.7	1042.4	2721.2	37805.2	68170.8	70638.8
75°	883.3	896.3	837.8	821.6	821.6	811.8	847.5	1396.3	24536.7	55610.2	59481.0
77.5°	802.1	828.1	733.9	681.9	668.9	639.7	691.7	854.0	10732.4	26108.4	25566.1
80°	662.5	698.2	604.0	542.3	519.6	487.1	545.5	597.5	3192.1	6062.7	5806.2
82.5°	493.6	509.8	428.6	386.4	366.9	344.2	409.2	415.7	1039.1	2146.5	2425.7
85°	315.0	321.5	263.0	227.3	217.6	207.8	259.8	227.3	396.2	1578.2	2292.6
87.5°	110.4	126.6	100.7	90.9	97.4	81.2	120.2	68.2	110.4	1113.8	1380.1
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)