

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: P884795

Luminaire Tested: **NAV-SB5D-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884795
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-SB5D-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55073 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

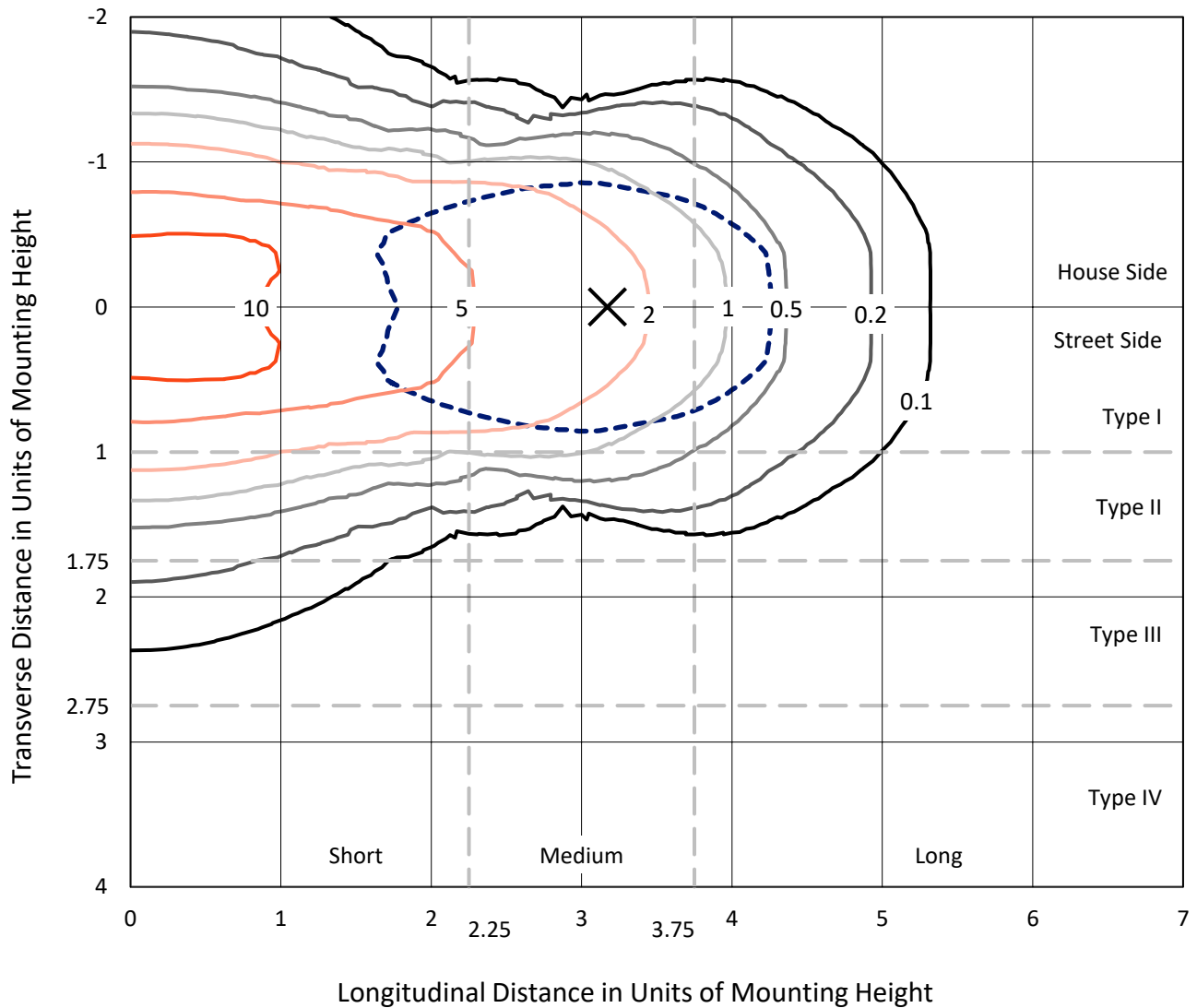
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

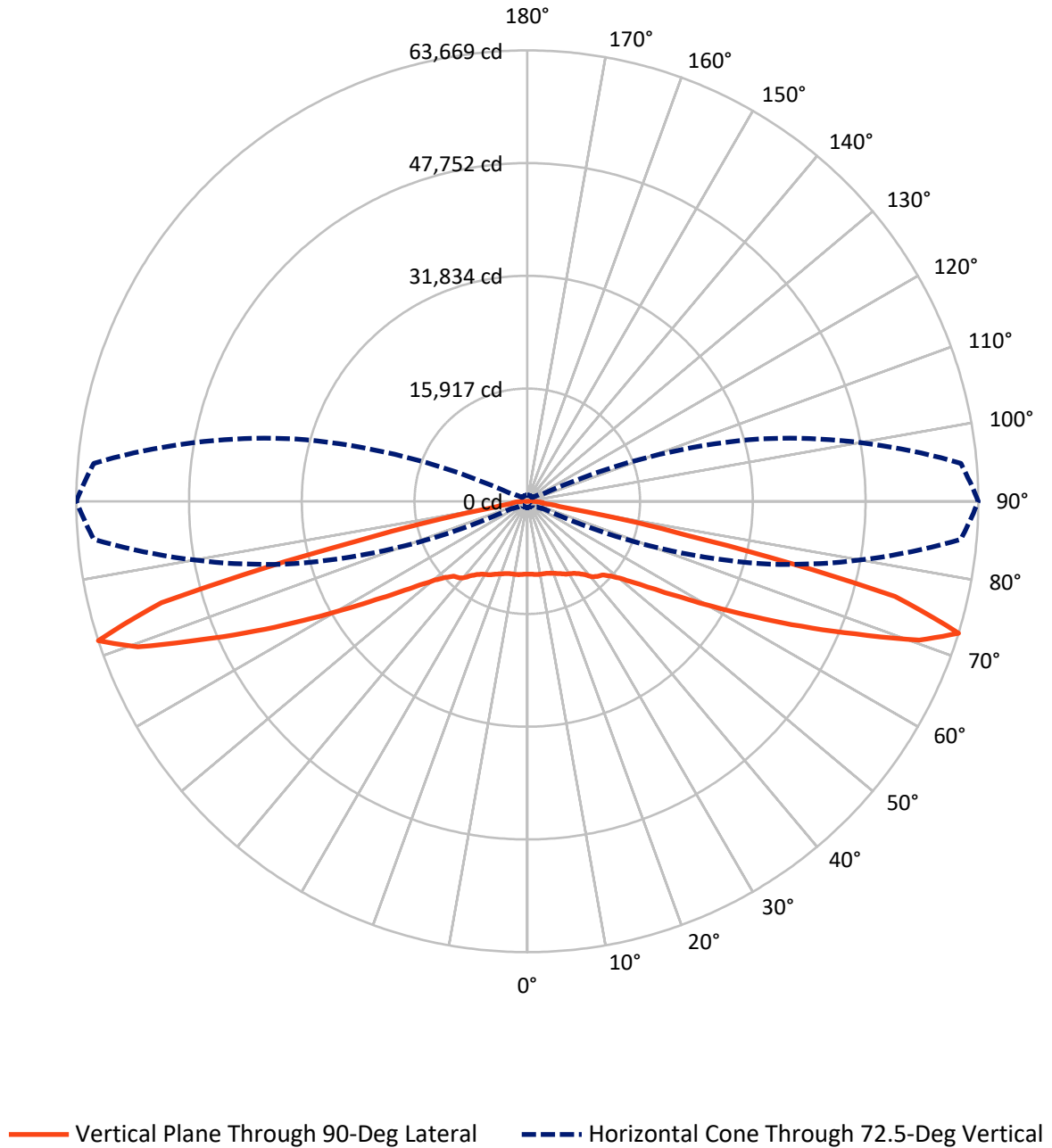
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	27536.5	0.0	27536.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27536.5	0.0	27536.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55073.0	0.0	55073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.8	1.8
10°-20°	3051.0	5.5
20°-30°	5087.2	9.2
30°-40°	6996.5	12.7
40°-50°	8544.7	15.5
50°-60°	9882.8	17.9
60°-70°	11783.6	21.4
70°-80°	8224.2	14.9
80°-90°	505.1	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°	55073.0	100.0
0°-180°	55073.0	100.0



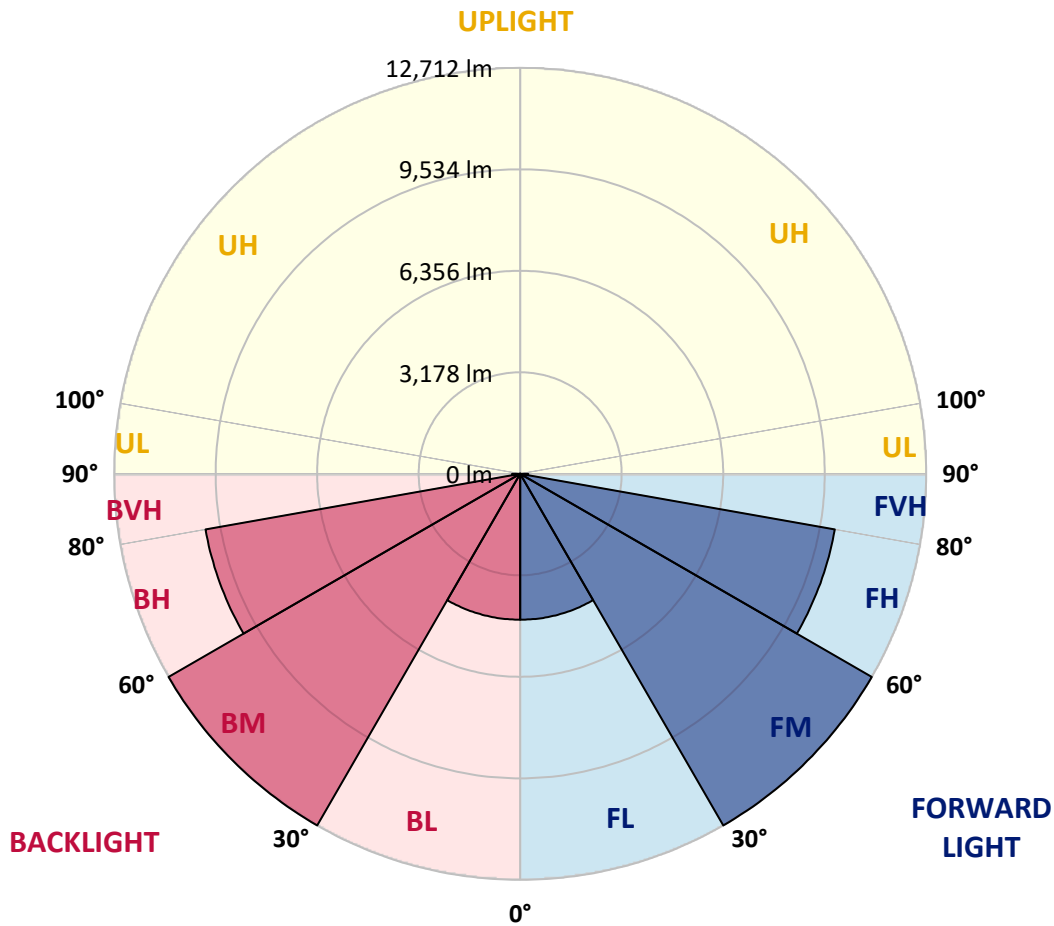
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4568.0	8.3			
FM (30°-60°)	12712.0	23.1			
FH (60°-80°)	10003.9	18.2			G4/12000
FVH (80°-90°)	252.6	0.5			G3/500
BL (0°-30°)	4568.0	8.3	B4/5000		
BM (30°-60°)	12712.0	23.1	B5		
BH (60°-80°)	10003.9	18.2	B5		G5
BVH (80°-90°)	252.6	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°	10291.0	10291.0	10291.0	10291.0	10291.0	10291.0	10291.0	10291.0	10291.0	10291.0	10291.0
2.5°	10299.8	10311.5	10311.5	10302.7	10323.2	10305.6	10305.6	10296.8	10305.6	10296.8	10296.8
5°	10352.4	10367.1	10372.9	10370.0	10396.3	10381.7	10381.7	10370.0	10372.9	10364.1	10364.1
7.5°	10452.0	10472.4	10484.1	10498.8	10536.8	10519.3	10507.6	10472.4	10457.8	10434.4	10434.4
10°	10484.1	10507.6	10545.6	10621.7	10709.5	10712.4	10677.3	10589.5	10522.2	10469.5	10460.7
12.5°	10384.6	10416.8	10495.9	10651.0	10847.1	10926.1	10870.5	10724.2	10592.4	10498.8	10484.1
15°	10258.8	10293.9	10413.9	10648.1	10937.8	11122.2	11116.4	10923.2	10712.4	10566.1	10542.7
17.5°	10062.7	10097.8	10270.5	10598.3	11008.1	11312.5	11394.4	11195.4	10899.8	10703.7	10671.5
20°	9708.5	9740.7	9980.7	10440.2	11031.5	11514.4	11728.1	11552.5	11183.7	10917.3	10867.6
22.5°	9249.0	9298.8	9579.7	10168.0	10975.9	11725.2	12108.6	11988.6	11514.4	11145.6	11078.3
25°	8757.3	8810.0	9137.8	9834.4	10832.4	11877.3	12559.3	12483.2	11889.1	11429.5	11335.9
27.5°	8332.9	8388.5	8745.6	9503.6	10610.0	11935.9	13004.2	13042.3	12342.7	11742.7	11643.2
30°	7999.2	8051.9	8432.4	9237.3	10323.2	11877.3	13393.5	13656.9	12805.2	12014.9	11871.5
32.5°	7633.3	7700.7	8101.7	8912.4	9983.6	11736.9	13733.0	14321.3	13340.8	12307.6	12126.1
35°	7170.9	7232.4	7653.8	8467.5	9538.8	11511.5	14016.9	15058.9	14107.6	12752.5	12550.5
37.5°	6608.9	6667.5	7086.0	7911.4	9096.8	11195.4	14233.5	15890.1	15020.8	13393.5	13124.2
40°	6044.0	6099.7	6491.9	7290.9	8567.0	10791.5	14309.6	16703.8	16068.7	14274.5	13987.6
42.5°	5526.0	5575.7	5935.7	6679.2	7972.9	10276.3	14210.1	17412.1	17008.2	14889.1	14520.3
45°	5048.9	5092.8	5411.8	6105.5	7355.3	9650.0	13911.5	18173.1	18126.3	15328.2	14830.6
47.5°	4504.5	4548.4	4879.1	5549.4	6737.7	8915.3	13405.2	18922.4	19680.5	16323.3	15749.6
50°	3840.1	3878.1	4217.7	4908.4	6096.7	8133.8	12702.7	19510.7	21641.5	17830.7	17110.6
52.5°	3052.8	3093.7	3424.5	4115.2	5335.7	7293.8	11777.8	19894.1	23906.9	20031.7	19144.8
55°	2271.3	2300.5	2587.4	3207.9	4393.3	6336.7	10618.8	20002.4	26476.7	23040.5	21931.2
57.5°	1647.8	1665.4	1849.8	2312.2	3330.8	5139.6	9210.9	19721.4	29535.3	26898.2	25502.1
60°	1334.7	1340.5	1396.1	1601.0	2315.2	3787.4	7510.4	18755.6	32854.4	31871.0	30111.9
62.5°	1211.7	1211.7	1226.4	1282.0	1565.9	2499.6	5452.8	16753.6	36413.5	38155.0	35798.9
65°	1126.9	1126.9	1132.7	1159.1	1235.2	1592.2	3442.0	13493.0	39413.6	45516.2	42536.6
67.5°	1050.8	1053.7	1050.8	1059.5	1103.4	1176.6	1996.1	9319.2	41029.2	53143.7	49927.0
70°	971.7	977.6	962.9	962.9	998.1	1001.0	1249.8	5110.4	39688.7	59536.0	58690.1
72.5°	878.1	886.8	863.4	857.6	883.9	872.2	939.5	2452.7	34074.9	61444.4	63668.8
75°	796.1	807.8	755.1	740.5	740.5	731.7	763.9	1258.6	22115.6	50123.1	53612.0
77.5°	722.9	746.4	661.5	614.6	602.9	576.6	623.4	769.8	9673.4	23532.3	23043.5
80°	597.1	629.3	544.4	488.8	468.3	439.0	491.7	538.5	2877.1	5464.5	5233.3
82.5°	444.9	459.5	386.4	348.3	330.7	310.3	368.8	374.6	936.6	1934.7	2186.4
85°	283.9	289.8	237.1	204.9	196.1	187.3	234.2	204.9	357.1	1422.5	2066.4
87.5°	99.5	114.1	90.7	82.0	87.8	73.2	108.3	61.5	99.5	1003.9	1243.9
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)