

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: P459849

Luminaire Tested: **NAV-SA3A-AMB-U-5WQ**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-AMB-U-5WQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3299 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 61.1
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: 28.75 FT

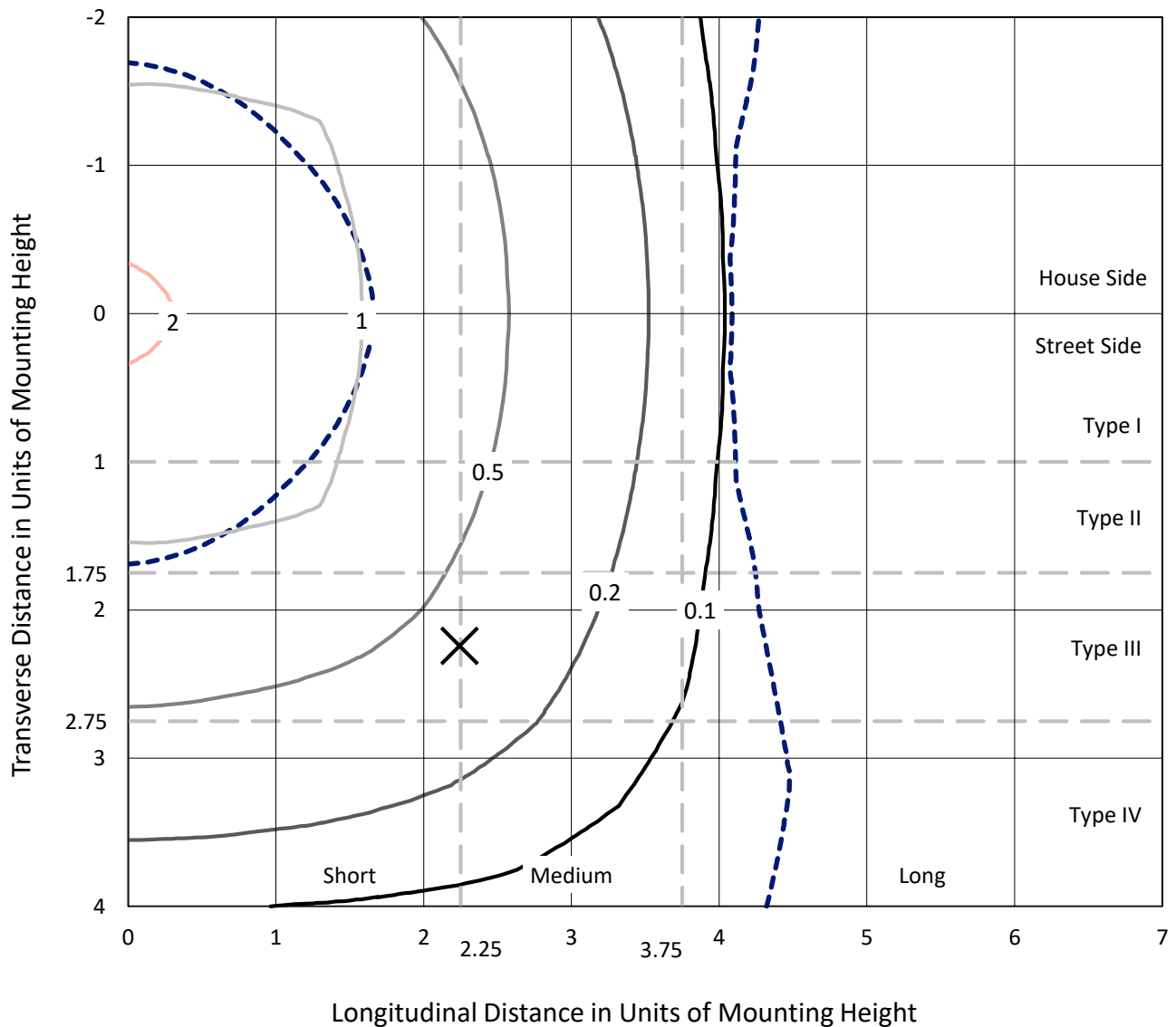


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

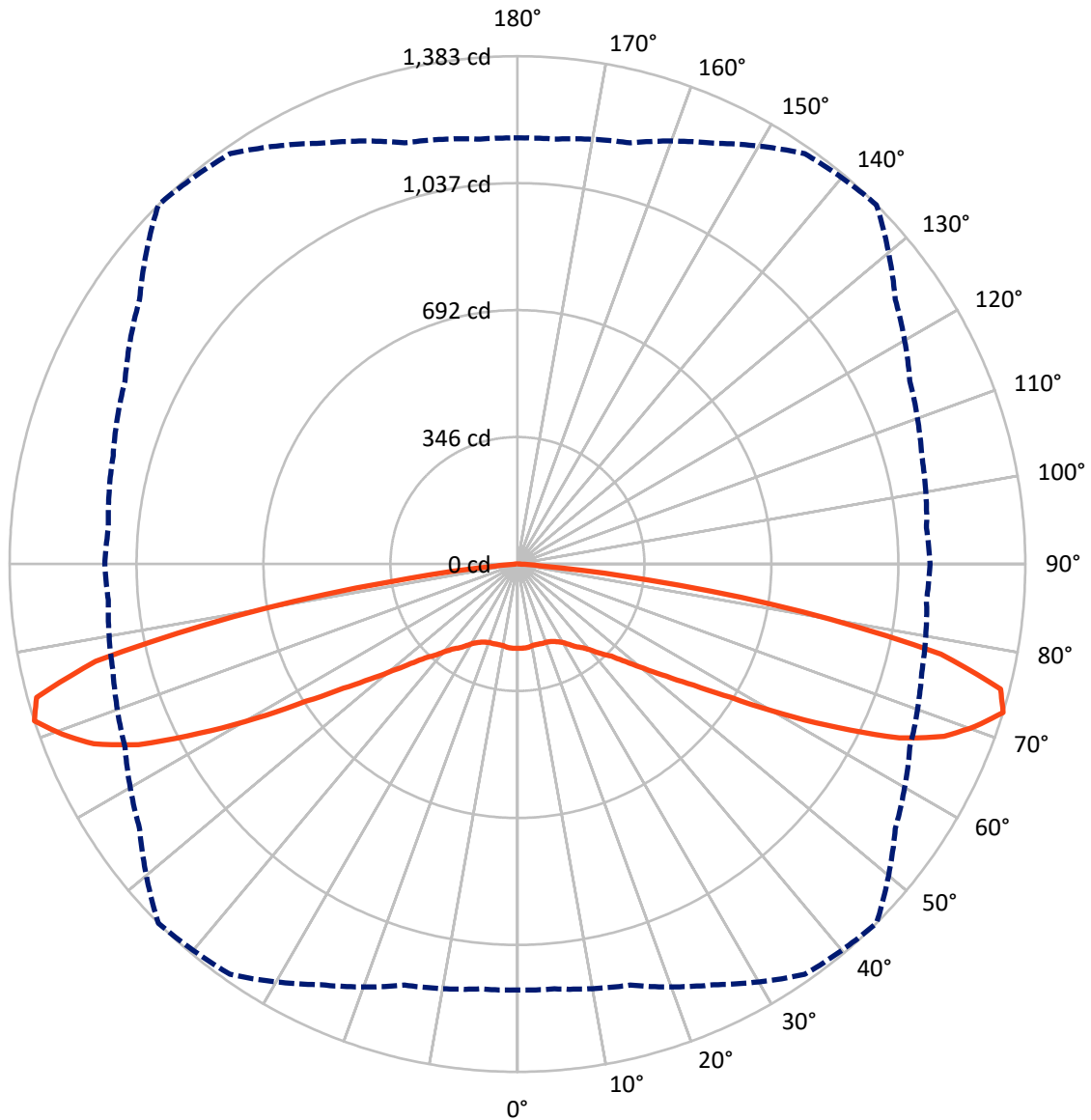


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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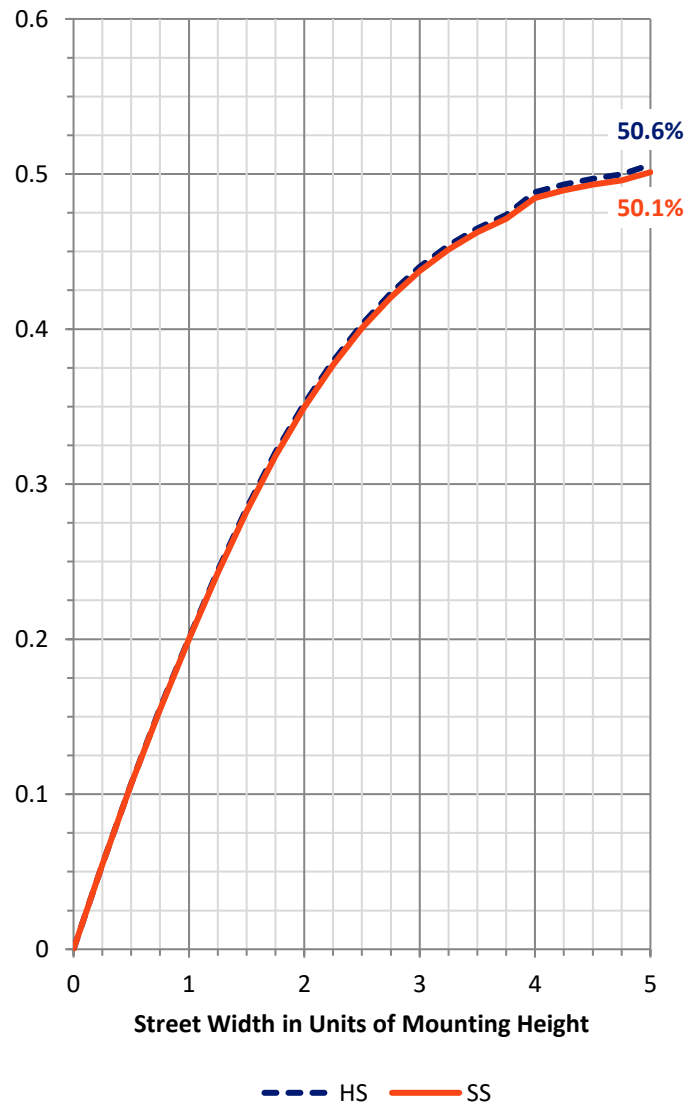
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1649.5	0.0	1649.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1649.5	0.0	1649.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3299.0	0.0	3299.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.7
10°-20°	64.8	2.0
20°-30°	111.0	3.4
30°-40°	174.1	5.3
40°-50°	288.0	8.7
50°-60°	531.1	16.1
60°-70°	986.6	29.9
70°-80°	1027.2	31.1
80°-90°	94.4	2.9
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°	3299.0	100.0
0°-180°	3299.0	100.0



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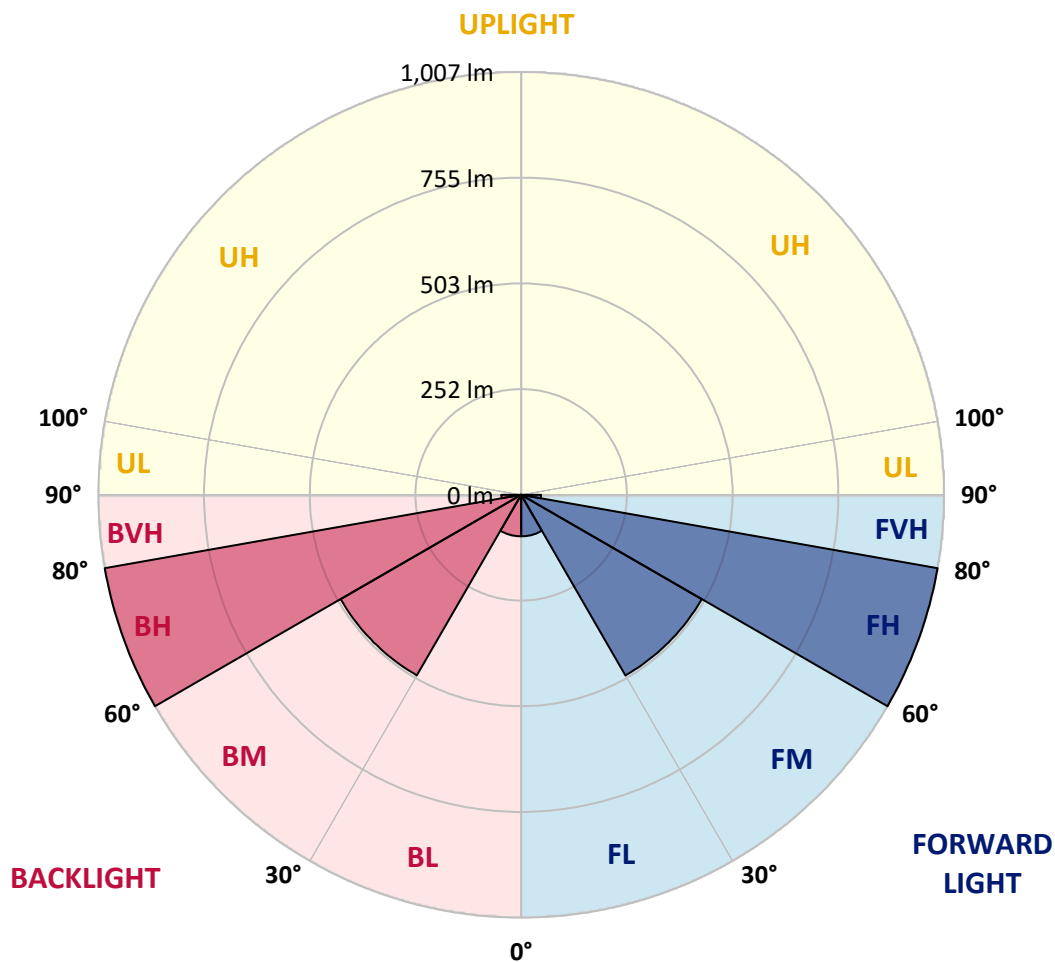
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.8	3.0			
FM (30°-60°)	496.6	15.1			
FH (60°-80°)	1006.9	30.5			G1/1800
FVH (80°-90°)	47.2	1.4			G1/100
BL (0°-30°)	98.8	3.0	B0/110		
BM (30°-60°)	496.6	15.1	B1/1000		
BH (60°-80°)	1006.9	30.5	B3/2500		G1/1800
BVH (80°-90°)	47.2	1.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6
2.5°	231.0	231.0	231.0	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6
5°	231.0	231.0	231.0	231.0	229.6	229.6	229.6	228.3	228.3	228.3	229.6
7.5°	229.6	231.0	229.6	229.6	228.3	228.3	226.9	226.9	226.9	226.9	226.9
10°	231.0	231.0	229.6	228.3	226.9	225.6	225.6	225.6	225.6	226.9	226.9
12.5°	232.3	232.3	229.6	226.9	226.9	225.6	225.6	225.6	225.6	226.9	228.3
15°	233.7	233.7	231.0	226.9	226.9	225.6	225.6	225.6	228.3	229.6	231.0
17.5°	236.4	235.0	231.0	228.3	226.9	226.9	226.9	226.9	229.6	232.3	232.3
20°	236.4	236.4	232.3	228.3	228.3	226.9	228.3	228.3	231.0	233.7	235.0
22.5°	240.4	239.1	233.7	231.0	229.6	229.6	231.0	231.0	233.7	236.4	237.7
25°	244.5	244.5	239.1	235.0	233.7	233.7	235.0	235.0	237.7	241.8	243.1
27.5°	252.6	251.3	245.8	241.8	240.4	240.4	243.1	243.1	244.5	248.5	249.9
30°	259.4	259.4	254.0	252.6	249.9	248.5	251.3	254.0	254.0	256.7	258.0
32.5°	264.8	264.8	262.1	262.1	263.4	262.1	264.8	263.4	262.1	264.8	264.8
35°	274.2	274.2	271.5	270.2	275.6	276.9	275.6	271.5	271.5	274.2	275.6
37.5°	289.1	289.1	286.4	283.7	285.0	289.1	285.0	283.7	286.4	290.4	291.8
40°	310.7	312.0	309.3	308.0	303.9	308.0	303.9	306.6	310.7	313.4	313.4
42.5°	335.0	336.4	332.3	329.6	330.9	333.7	328.2	329.6	335.0	339.1	339.1
45°	372.8	371.5	364.7	360.7	356.6	358.0	355.3	362.0	367.4	374.2	376.9
47.5°	409.3	407.9	405.2	401.2	395.8	397.1	397.1	402.5	409.3	416.1	416.1
50°	455.2	455.2	451.2	448.5	444.4	447.1	444.4	451.2	459.3	464.7	466.0
52.5°	507.9	506.6	506.6	505.2	502.5	507.9	503.9	512.0	518.7	520.1	522.8
55°	563.3	567.3	572.7	572.7	576.8	582.2	579.5	580.8	586.3	580.8	583.6
57.5°	634.9	638.9	647.0	657.8	671.4	686.2	676.8	670.0	659.2	651.1	649.7
60°	709.2	713.2	729.4	761.9	795.6	828.0	799.7	768.6	744.3	724.0	722.7
62.5°	790.2	797.0	819.9	868.6	933.4	982.0	937.5	876.7	832.1	801.0	802.4
65°	896.9	901.0	925.3	982.0	1083.4	1142.8	1073.9	992.8	937.5	902.3	903.7
67.5°	1057.7	1055.0	1067.1	1121.2	1204.9	1253.6	1171.2	1105.0	1048.2	1007.7	1014.5
70°	1169.8	1168.5	1176.6	1233.3	1314.3	1323.8	1241.4	1167.1	1119.8	1095.5	1095.5
72.5°	1160.3	1161.7	1187.4	1264.4	1364.3	1383.2	1256.3	1179.3	1140.1	1118.5	1123.9
75°	938.8	941.5	1014.5	1154.9	1322.4	1358.9	1222.5	1092.8	979.3	917.2	906.4
77.5°	451.2	455.2	563.3	795.6	1067.1	1179.3	1057.7	784.8	574.1	466.0	476.8
80°	136.4	140.5	186.4	326.9	610.6	787.5	632.2	322.8	164.8	120.2	120.2
82.5°	29.7	36.5	43.2	71.6	210.7	359.3	210.7	79.7	48.6	35.1	32.4
85°	16.2	16.2	24.3	25.7	33.8	59.4	40.5	32.4	28.4	18.9	18.9
87.5°	6.8	6.8	12.2	12.2	13.5	9.5	14.9	16.2	16.2	9.5	9.5
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)