

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: P459848

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-AMB-U-5MQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

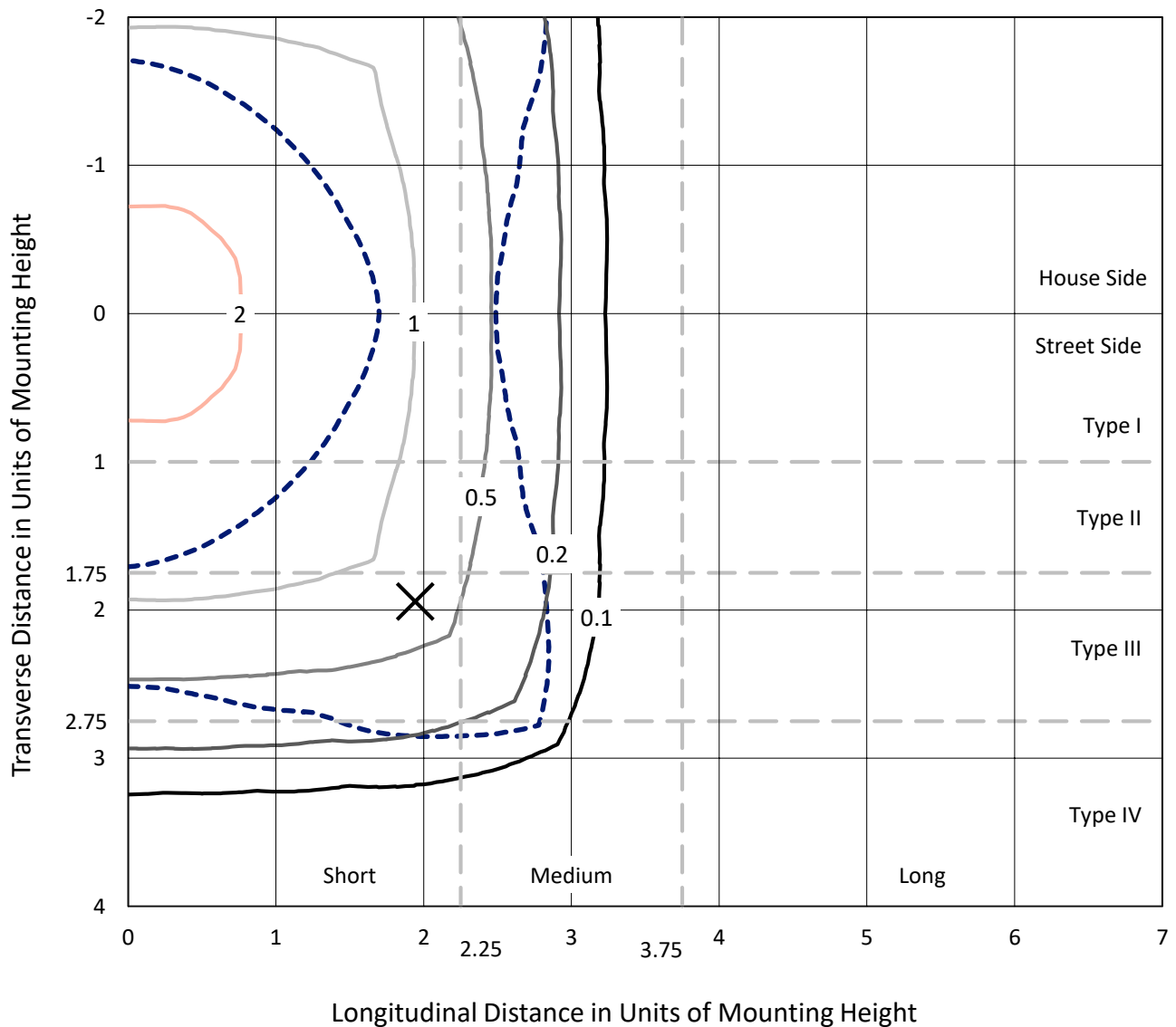
Input Watts (W): 61.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

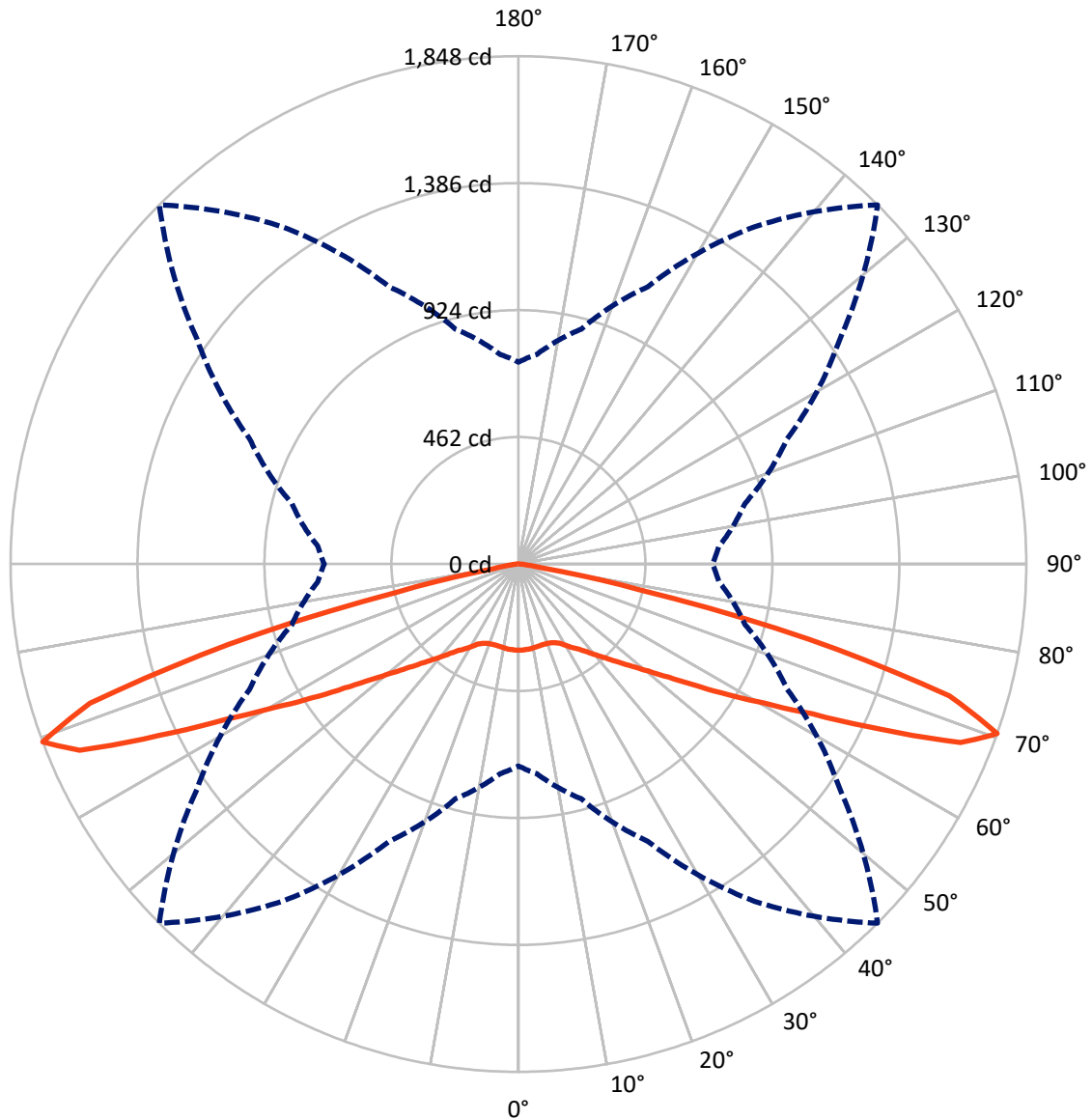
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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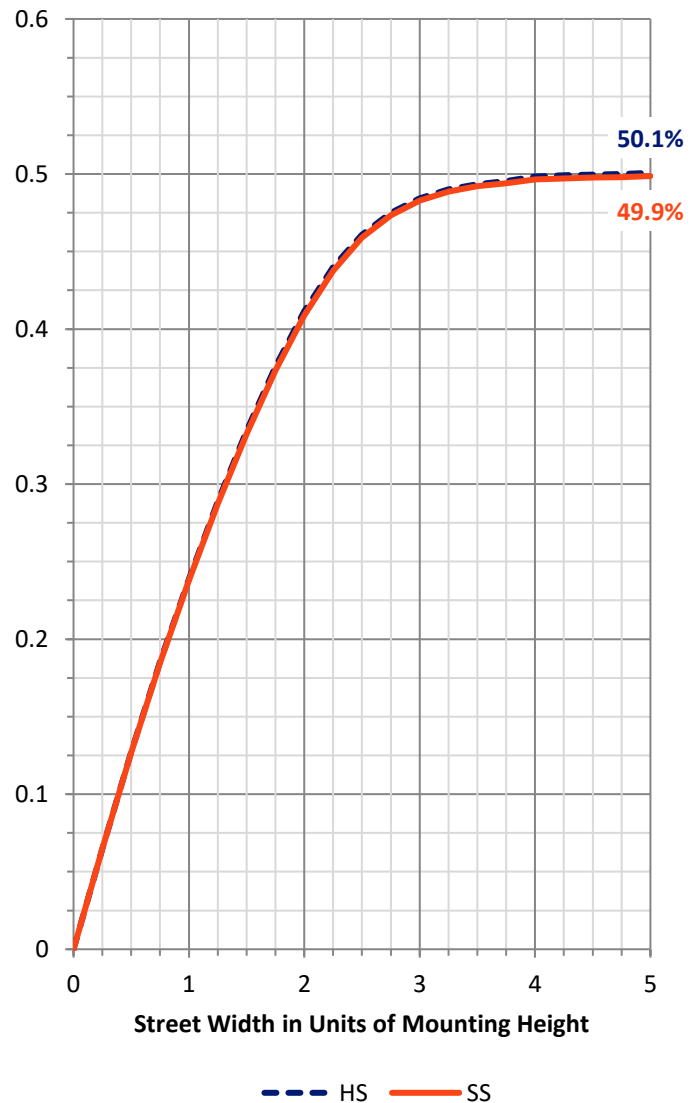
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.5	0.0	1656.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1656.5	0.0	1656.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3313.0	0.0	3313.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.9
10°-20°	86.5	2.6
20°-30°	146.6	4.4
30°-40°	240.3	7.3
40°-50°	401.8	12.1
50°-60°	705.3	21.3
60°-70°	1158.7	35.0
70°-80°	522.4	15.8
80°-90°	21.7	0.7
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°	3313.0	100.0
0°-180°	3313.0	100.0



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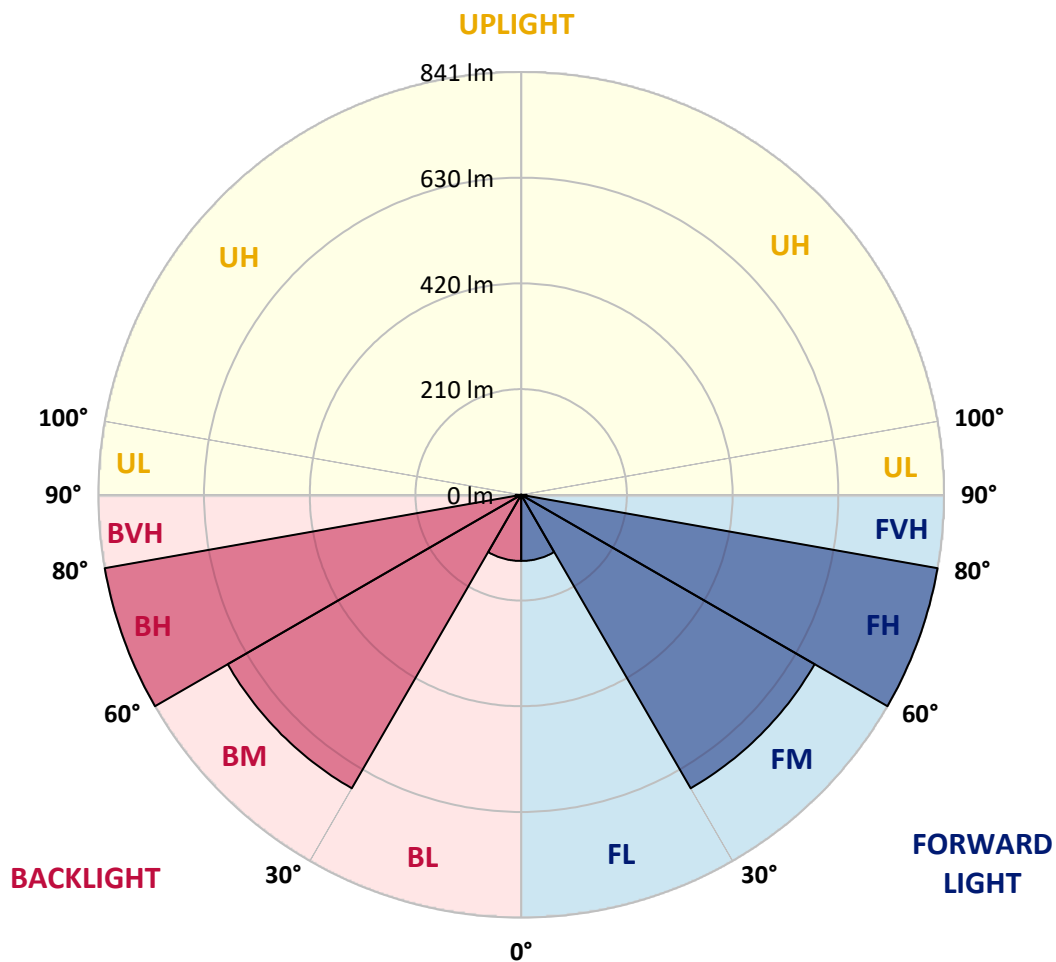
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.4	4.0			
FM (30°-60°)	673.7	20.3			
FH (60°-80°)	840.5	25.4			G1/1800
FVH (80°-90°)	10.9	0.3			G1/100
BL (0°-30°)	131.4	4.0	B1/500		
BM (30°-60°)	673.7	20.3	B1/1000		
BH (60°-80°)	840.5	25.4	B2/1000		G1/1800
BVH (80°-90°)	10.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5
2.5°	314.8	314.8	314.8	314.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5
5°	314.8	314.8	314.8	313.5	313.5	312.1	313.5	312.1	312.1	312.1	313.5
7.5°	314.8	314.8	314.8	313.5	313.5	312.1	312.1	310.8	310.8	310.8	310.8
10°	310.8	310.8	310.8	310.8	310.8	309.4	309.4	308.1	308.1	308.1	308.1
12.5°	306.7	308.1	306.7	306.7	308.1	308.1	306.7	305.4	304.0	304.0	305.4
15°	304.0	304.0	304.0	304.0	306.7	306.7	306.7	304.0	302.7	302.7	302.7
17.5°	301.3	301.3	301.3	304.0	305.4	306.7	305.4	304.0	302.7	300.0	300.0
20°	300.0	300.0	301.3	304.0	306.7	308.1	308.1	305.4	302.7	300.0	300.0
22.5°	300.0	300.0	302.7	306.7	309.4	310.8	310.8	308.1	305.4	302.7	302.7
25°	305.4	304.0	306.7	312.1	316.2	317.5	318.9	314.8	310.8	308.1	306.7
27.5°	313.5	314.8	317.5	322.9	328.3	327.0	328.3	325.6	322.9	318.9	318.9
30°	329.7	329.7	333.7	339.1	343.2	344.6	344.6	341.8	337.8	335.1	333.7
32.5°	348.6	348.6	352.7	359.4	362.1	363.5	362.1	359.4	354.0	350.0	348.6
35°	367.5	367.5	372.9	381.0	383.7	381.0	382.4	379.7	375.6	372.9	371.6
37.5°	390.5	390.5	397.2	404.0	408.1	405.4	409.4	408.1	402.7	400.0	398.6
40°	417.5	418.9	425.6	433.7	433.7	435.1	439.1	440.5	435.1	432.4	429.7
42.5°	451.3	454.0	459.4	467.5	468.9	468.9	474.3	475.6	472.9	467.5	464.8
45°	491.8	494.5	502.6	510.7	510.7	508.0	516.2	522.9	517.5	509.4	506.7
47.5°	539.1	541.8	552.6	559.4	562.1	555.3	567.5	575.6	568.8	563.4	558.0
50°	595.9	601.3	612.1	622.9	620.2	612.1	628.3	637.8	633.7	621.5	617.5
52.5°	656.7	660.7	682.3	693.2	693.2	683.7	705.3	713.4	701.3	685.1	679.6
55°	739.1	737.7	752.6	776.9	786.4	776.9	794.5	797.2	781.0	767.5	758.0
57.5°	824.2	826.9	847.2	870.2	883.7	894.5	894.5	887.7	864.8	839.1	833.7
60°	922.9	931.0	955.3	985.0	1012.0	1026.9	1003.9	990.4	955.3	933.7	925.6
62.5°	1032.3	1043.1	1079.6	1128.2	1171.5	1201.2	1163.4	1125.5	1080.9	1047.2	1041.8
65°	1066.1	1075.5	1147.2	1252.5	1379.6	1449.8	1329.6	1239.0	1133.6	1063.4	1055.3
67.5°	991.8	995.8	1086.4	1267.4	1522.8	1734.9	1470.1	1243.1	1082.3	981.0	975.6
70°	735.0	766.1	885.0	1113.4	1498.5	1848.4	1428.2	1079.6	853.9	732.3	706.7
72.5°	431.0	424.3	514.8	739.1	1224.2	1640.3	1162.0	732.3	525.6	433.7	413.5
75°	168.9	171.6	214.8	341.8	693.2	1093.1	695.9	344.6	191.9	156.7	155.4
77.5°	58.1	59.5	64.9	82.4	222.9	451.3	229.7	83.8	63.5	67.6	68.9
80°	36.5	35.1	39.2	40.5	48.6	89.2	52.7	43.2	41.9	41.9	43.2
82.5°	18.9	20.3	27.0	28.4	29.7	33.8	33.8	32.4	28.4	21.6	18.9
85°	12.2	9.5	18.9	20.3	18.9	17.6	21.6	24.3	21.6	12.2	13.5
87.5°	5.4	5.4	9.5	9.5	9.5	6.8	9.5	13.5	13.5	5.4	5.4
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)