

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: P459840

Luminaire Tested: **NAV-SA2A-AMB-U-5MQ**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459840
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-SA2A-AMB-U-5MQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(2) 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: 2239 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

Input Watts (W): 41.7
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

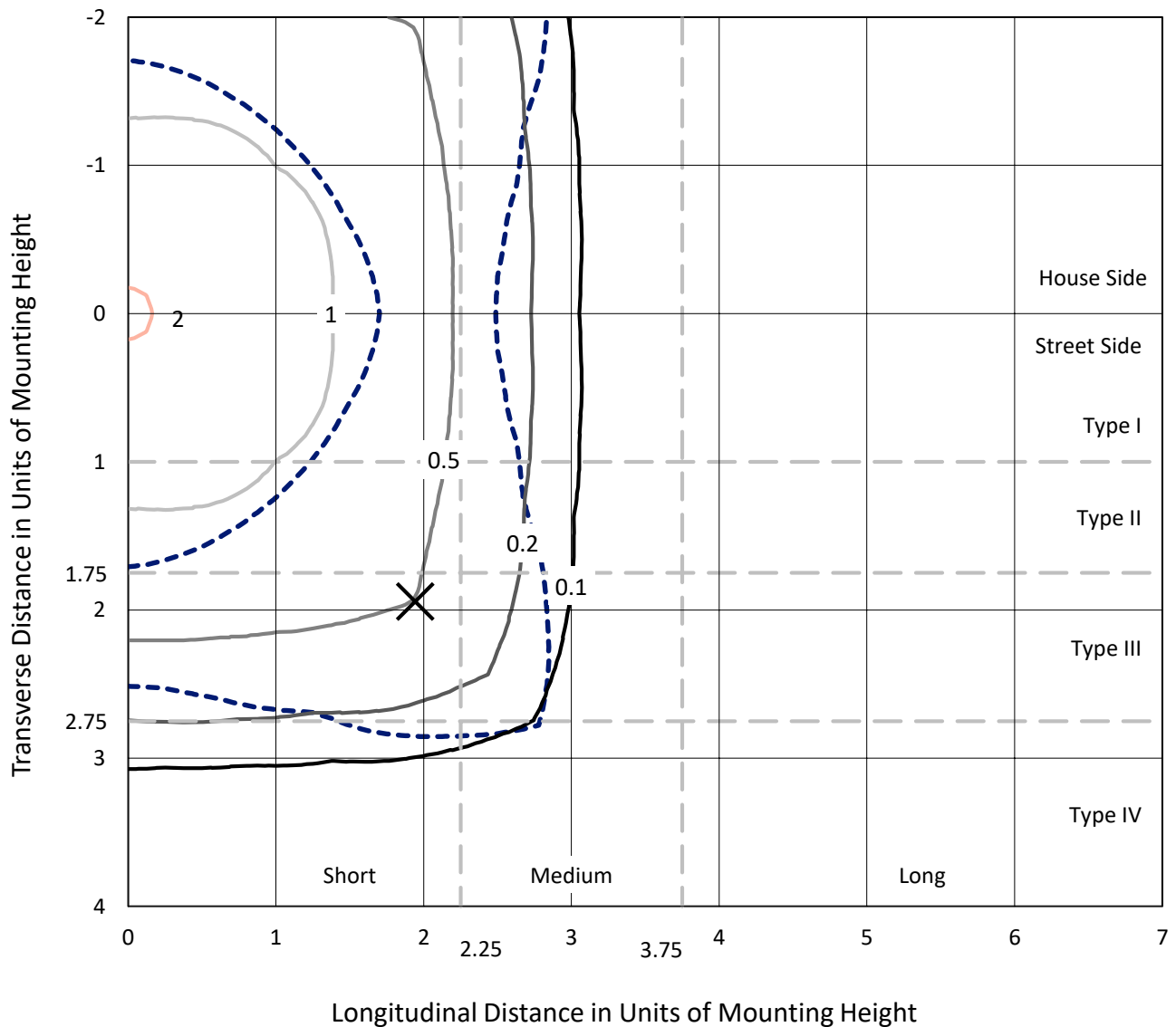


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

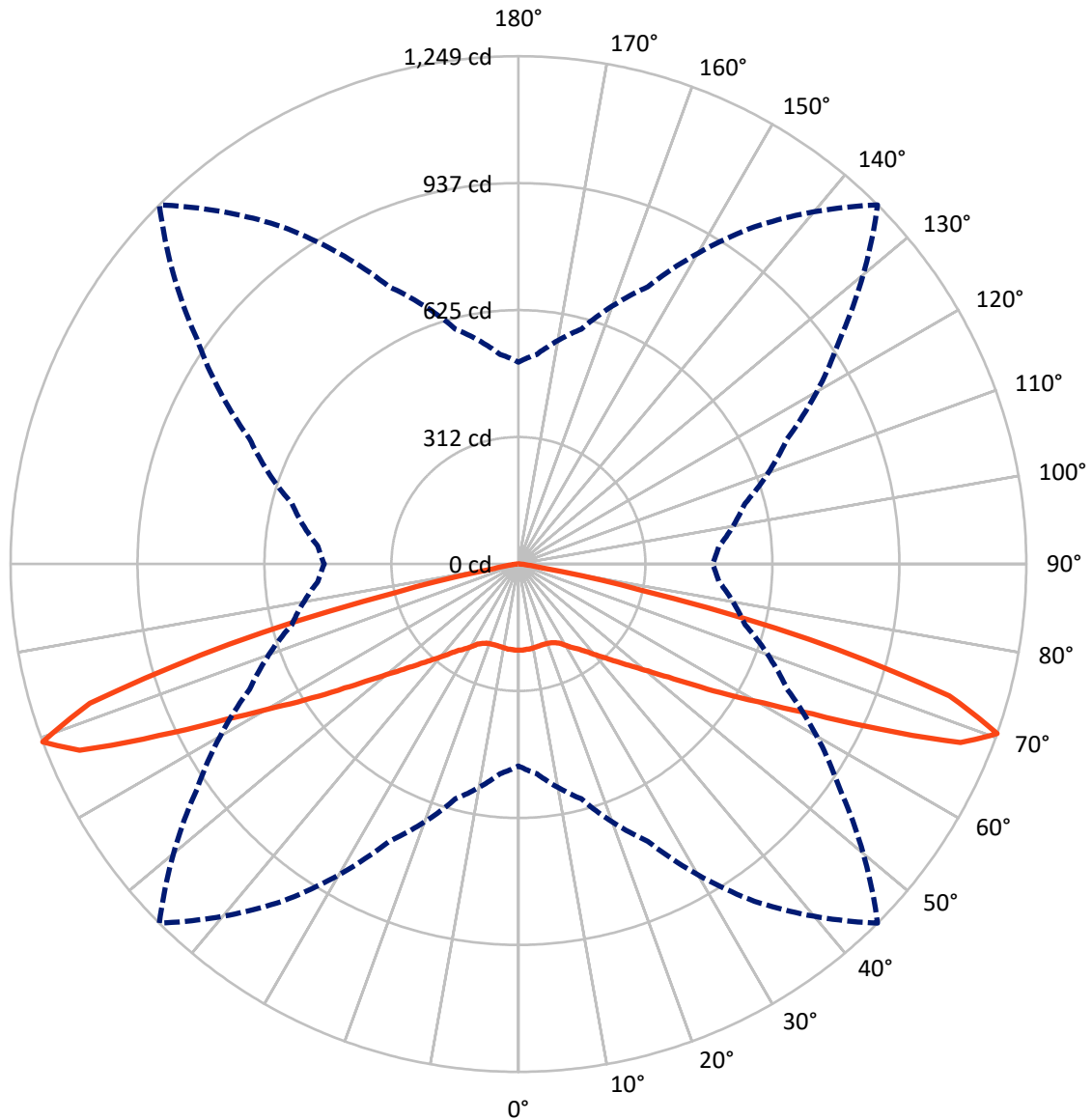


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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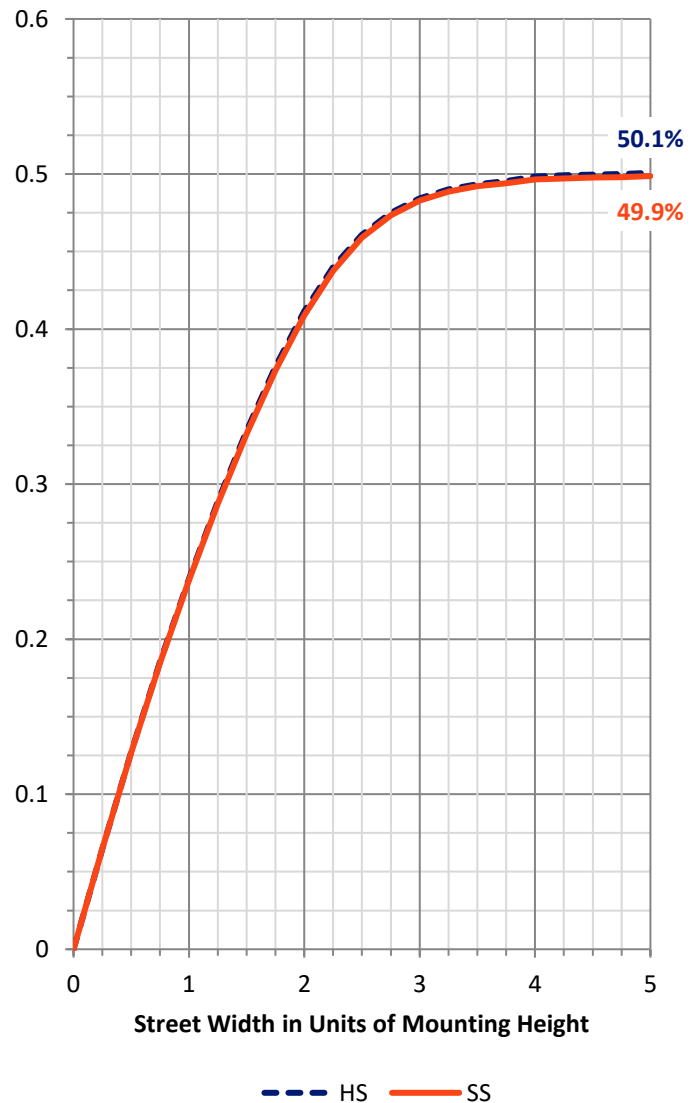
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.5	0.0	1119.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1119.5	0.0	1119.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2239.0	0.0	2239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	0.9
10°-20°	58.4	2.6
20°-30°	99.1	4.4
30°-40°	162.4	7.3
40°-50°	271.5	12.1
50°-60°	476.7	21.3
60°-70°	783.1	35.0
70°-80°	353.0	15.8
80°-90°	14.7	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°	2239.0	100.0
0°-180°	2239.0	100.0



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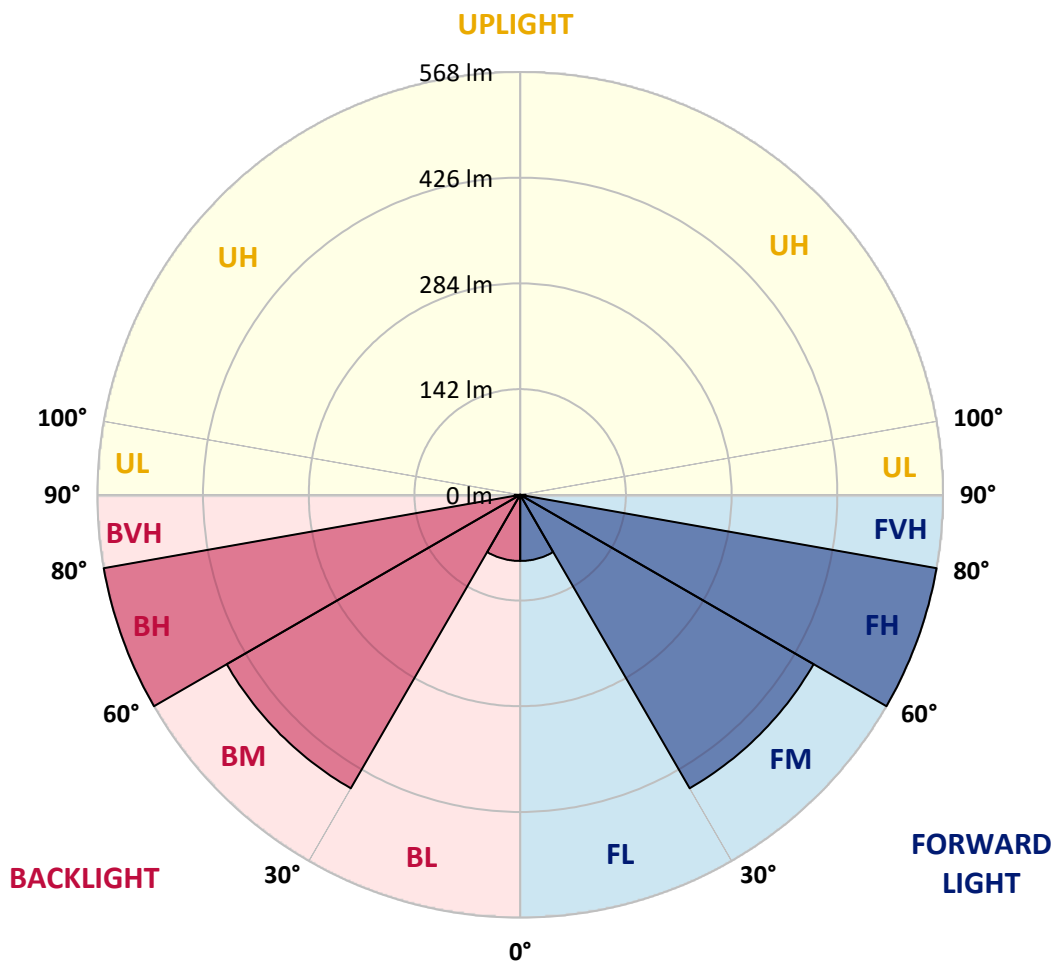
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.8	4.0			
FM (30°-60°)	455.3	20.3			
FH (60°-80°)	568.1	25.4			G0/660
FVH (80°-90°)	7.3	0.3			G0/10
BL (0°-30°)	88.8	4.0	B0/110		
BM (30°-60°)	455.3	20.3	B1/1000		
BH (60°-80°)	568.1	25.4	B2/1000		G0/660
BVH (80°-90°)	7.3	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9
2.5°	212.8	212.8	212.8	212.8	211.9	211.9	211.9	211.9	211.9	211.9	211.9
5°	212.8	212.8	212.8	211.9	211.9	210.9	211.9	210.9	210.9	210.9	211.9
7.5°	212.8	212.8	212.8	211.9	211.9	210.9	210.9	210.0	210.0	210.0	210.0
10°	210.0	210.0	210.0	210.0	210.0	209.1	209.1	208.2	208.2	208.2	208.2
12.5°	207.3	208.2	207.3	207.3	208.2	208.2	207.3	206.4	205.5	205.5	206.4
15°	205.5	205.5	205.5	205.5	207.3	207.3	207.3	205.5	204.5	204.5	204.5
17.5°	203.6	203.6	203.6	205.5	206.4	207.3	206.4	205.5	204.5	202.7	202.7
20°	202.7	202.7	203.6	205.5	207.3	208.2	208.2	206.4	204.5	202.7	202.7
22.5°	202.7	202.7	204.5	207.3	209.1	210.0	210.0	208.2	206.4	204.5	204.5
25°	206.4	205.5	207.3	210.9	213.7	214.6	215.5	212.8	210.0	208.2	207.3
27.5°	211.9	212.8	214.6	218.2	221.9	221.0	221.9	220.1	218.2	215.5	215.5
30°	222.8	222.8	225.6	229.2	231.9	232.9	232.9	231.0	228.3	226.5	225.6
32.5°	235.6	235.6	238.3	242.9	244.7	245.6	244.7	242.9	239.2	236.5	235.6
35°	248.4	248.4	252.0	257.5	259.3	257.5	258.4	256.6	253.9	252.0	251.1
37.5°	263.9	263.9	268.5	273.0	275.8	273.9	276.7	275.8	272.1	270.3	269.4
40°	282.2	283.1	287.6	293.1	293.1	294.0	296.8	297.7	294.0	292.2	290.4
42.5°	305.0	306.8	310.5	316.0	316.9	316.9	320.5	321.4	319.6	316.0	314.1
45°	332.4	334.2	339.7	345.2	345.2	343.3	348.8	353.4	349.7	344.3	342.4
47.5°	364.4	366.2	373.5	378.0	379.9	375.3	383.5	389.0	384.4	380.8	377.1
50°	402.7	406.4	413.7	421.0	419.1	413.7	424.6	431.0	428.3	420.1	417.3
52.5°	443.8	446.5	461.1	468.5	468.5	462.1	476.7	482.1	473.9	463.0	459.3
55°	499.5	498.6	508.6	525.1	531.5	525.1	536.9	538.8	527.8	518.7	512.3
57.5°	557.0	558.9	572.6	588.1	597.2	604.5	604.5	599.9	584.4	567.1	563.4
60°	623.7	629.2	645.6	665.7	684.0	694.0	678.5	669.3	645.6	631.0	625.5
62.5°	697.7	705.0	729.6	762.5	791.7	811.8	786.2	760.7	730.5	707.7	704.0
65°	720.5	726.9	775.3	846.5	932.3	979.8	898.6	837.4	766.1	718.7	713.2
67.5°	670.3	673.0	734.2	856.5	1029.1	1172.5	993.5	840.1	731.4	663.0	659.3
70°	496.8	517.8	598.1	752.4	1012.7	1249.2	965.2	729.6	577.1	494.9	477.6
72.5°	291.3	286.7	347.9	499.5	827.3	1108.6	785.3	494.9	355.2	293.1	279.4
75°	114.1	116.0	145.2	231.0	468.5	738.7	470.3	232.9	129.7	105.9	105.0
77.5°	39.3	40.2	43.8	55.7	150.7	305.0	155.2	56.6	42.9	45.7	46.6
80°	24.7	23.7	26.5	27.4	32.9	60.3	35.6	29.2	28.3	28.3	29.2
82.5°	12.8	13.7	18.3	19.2	20.1	22.8	22.8	21.9	19.2	14.6	12.8
85°	8.2	6.4	12.8	13.7	12.8	11.9	14.6	16.4	14.6	8.2	9.1
87.5°	3.7	3.7	6.4	6.4	6.4	4.6	6.4	9.1	9.1	3.7	3.7
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)