

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: P459841

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459841
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-SA2A-AMB-U-5WQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(2) 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: 2230 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

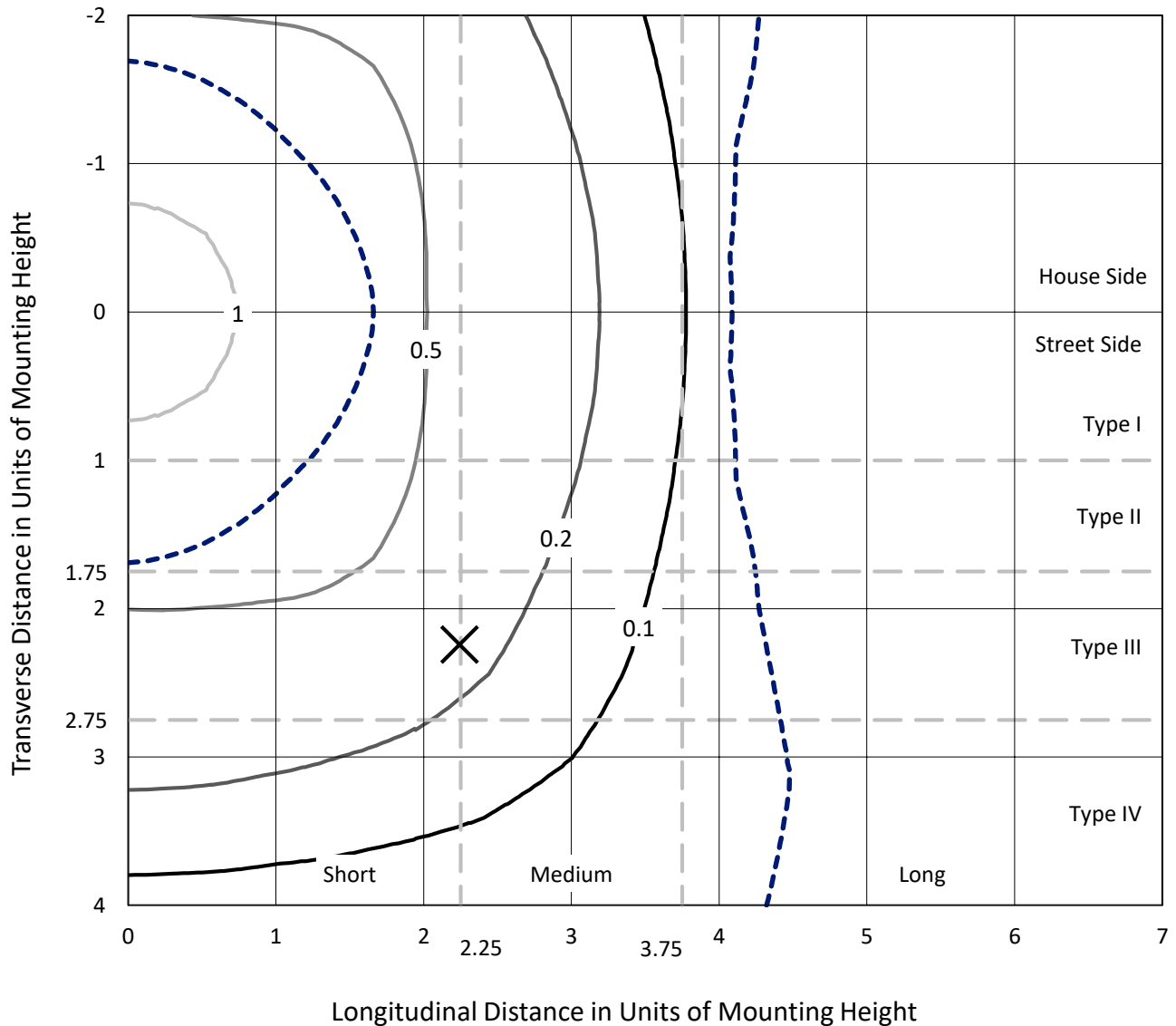
Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

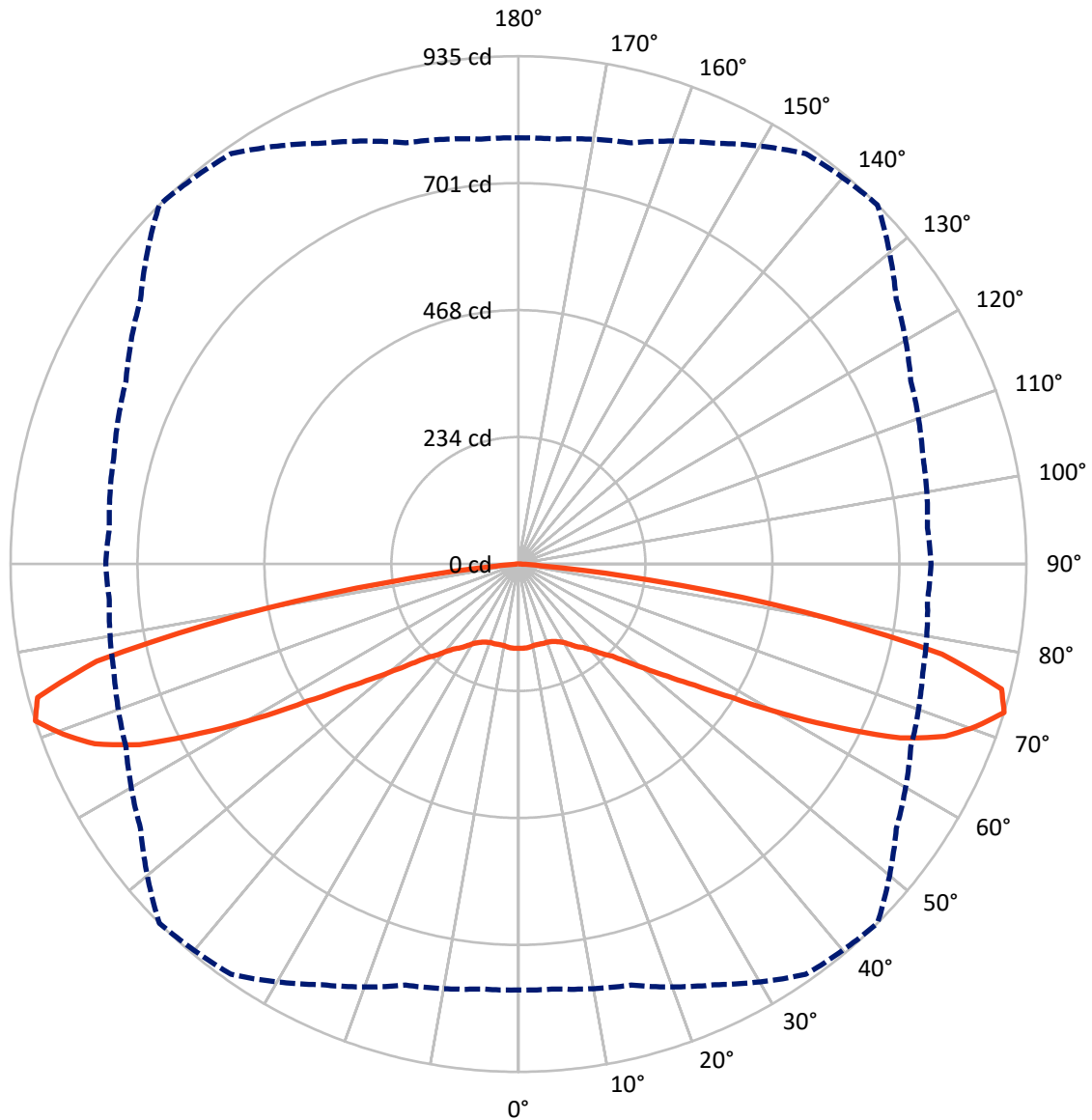


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Non-Cutoff

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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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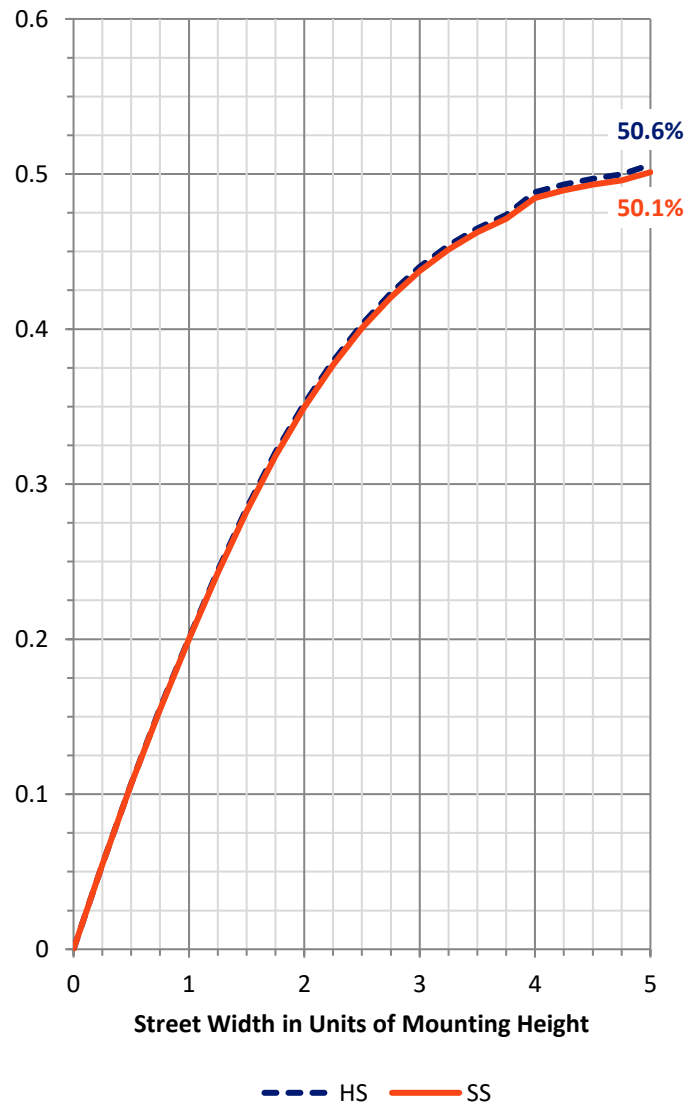
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1115.0	0.0	1115.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1115.0	0.0	1115.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2230.0	0.0	2230.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.7
10°-20°	43.8	2.0
20°-30°	75.0	3.4
30°-40°	117.7	5.3
40°-50°	194.7	8.7
50°-60°	359.0	16.1
60°-70°	666.9	29.9
70°-80°	694.4	31.1
80°-90°	63.8	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°	2230.0	100.0
0°-180°	2230.0	100.0



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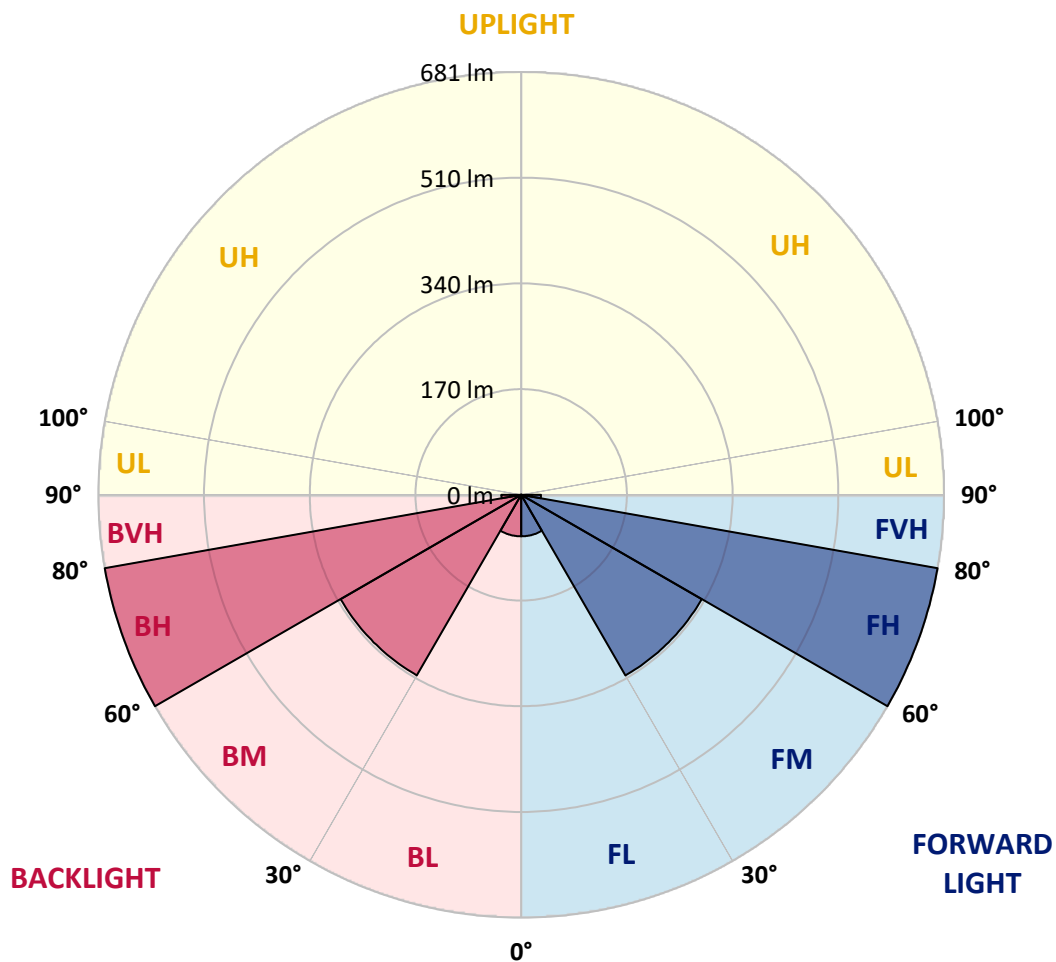
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	66.8	3.0			
FM (30°-60°)	335.7	15.1			
FH (60°-80°)	680.6	30.5			G1/1800
FVH (80°-90°)	31.9	1.4			G1/100
BL (0°-30°)	66.8	3.0	B0/110		
BM (30°-60°)	335.7	15.1	B1/1000		
BH (60°-80°)	680.6	30.5	B2/1000		G1/1800
BVH (80°-90°)	31.9	1.4			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°	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2
2.5°	156.1	156.1	156.1	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2
5°	156.1	156.1	156.1	156.1	155.2	155.2	155.2	154.3	154.3	154.3	155.2
7.5°	155.2	156.1	155.2	155.2	154.3	154.3	153.4	153.4	153.4	153.4	153.4
10°	156.1	156.1	155.2	154.3	153.4	153.4	152.5	152.5	152.5	153.4	153.4
12.5°	157.1	157.1	155.2	153.4	153.4	153.4	152.5	152.5	152.5	153.4	154.3
15°	158.0	158.0	156.1	153.4	153.4	153.4	152.5	152.5	154.3	155.2	156.1
17.5°	159.8	158.9	156.1	154.3	153.4	153.4	153.4	153.4	155.2	157.1	157.1
20°	159.8	159.8	157.1	154.3	154.3	154.3	154.3	154.3	156.1	158.0	158.9
22.5°	162.5	161.6	158.0	156.1	155.2	155.2	156.1	156.1	158.0	159.8	160.7
25°	165.3	165.3	161.6	158.9	158.0	158.0	158.9	158.9	160.7	163.4	164.4
27.5°	170.7	169.8	166.2	163.4	162.5	162.5	164.4	164.4	165.3	168.0	168.9
30°	175.3	175.3	171.7	170.7	168.9	168.9	169.8	171.7	171.7	173.5	174.4
32.5°	179.0	179.0	177.1	177.1	178.1	177.1	179.0	178.1	177.1	179.0	179.0
35°	185.4	185.4	183.5	182.6	186.3	187.2	186.3	183.5	183.5	185.4	186.3
37.5°	195.4	195.4	193.6	191.8	192.7	195.4	192.7	191.8	193.6	196.3	197.2
40°	210.0	210.9	209.1	208.2	205.4	208.2	205.4	207.3	210.0	211.8	211.8
42.5°	226.4	227.4	224.6	222.8	223.7	225.5	221.9	222.8	226.4	229.2	229.2
45°	252.0	251.1	246.5	243.8	241.1	242.0	240.1	244.7	248.4	252.9	254.8
47.5°	276.7	275.8	273.9	271.2	267.5	268.5	268.5	272.1	276.7	281.2	281.2
50°	307.7	307.7	305.0	303.1	300.4	302.2	300.4	305.0	310.5	314.1	315.0
52.5°	343.3	342.4	342.4	341.5	339.7	343.3	340.6	346.1	350.6	351.5	353.4
55°	380.8	383.5	387.2	387.2	389.9	393.5	391.7	392.6	396.3	392.6	394.5
57.5°	429.2	431.9	437.4	444.7	453.8	463.9	457.5	452.9	445.6	440.1	439.2
60°	479.4	482.1	493.1	515.0	537.8	559.7	540.6	519.6	503.1	489.4	488.5
62.5°	534.2	538.7	554.3	587.1	631.0	663.8	633.7	592.6	562.5	541.5	542.4
65°	606.3	609.0	625.5	663.8	732.3	772.5	725.9	671.1	633.7	610.0	610.9
67.5°	715.0	713.1	721.3	757.9	814.5	847.4	791.7	746.9	708.6	681.2	685.7
70°	790.7	789.8	795.3	833.7	888.4	894.8	839.1	788.9	757.0	740.5	740.5
72.5°	784.4	785.3	802.6	854.7	922.2	935.0	849.2	797.1	770.7	756.0	759.7
75°	634.6	636.4	685.7	780.7	893.9	918.6	826.4	738.7	662.0	620.0	612.7
77.5°	305.0	307.7	380.8	537.8	721.3	797.1	715.0	530.5	388.1	315.0	322.3
80°	92.2	95.0	126.0	221.0	412.7	532.3	427.3	218.2	111.4	81.3	81.3
82.5°	20.1	24.7	29.2	48.4	142.4	242.9	142.4	53.9	32.9	23.7	21.9
85°	11.0	11.0	16.4	17.3	22.8	40.2	27.4	21.9	19.2	12.8	12.8
87.5°	4.6	4.6	8.2	8.2	9.1	6.4	10.0	11.0	11.0	6.4	6.4
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)