

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: P459833

Luminaire Tested: **NAV-SA1A-AMB-U-5WQ**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459833
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-SA1A-AMB-U-5WQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1193 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 7')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): 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

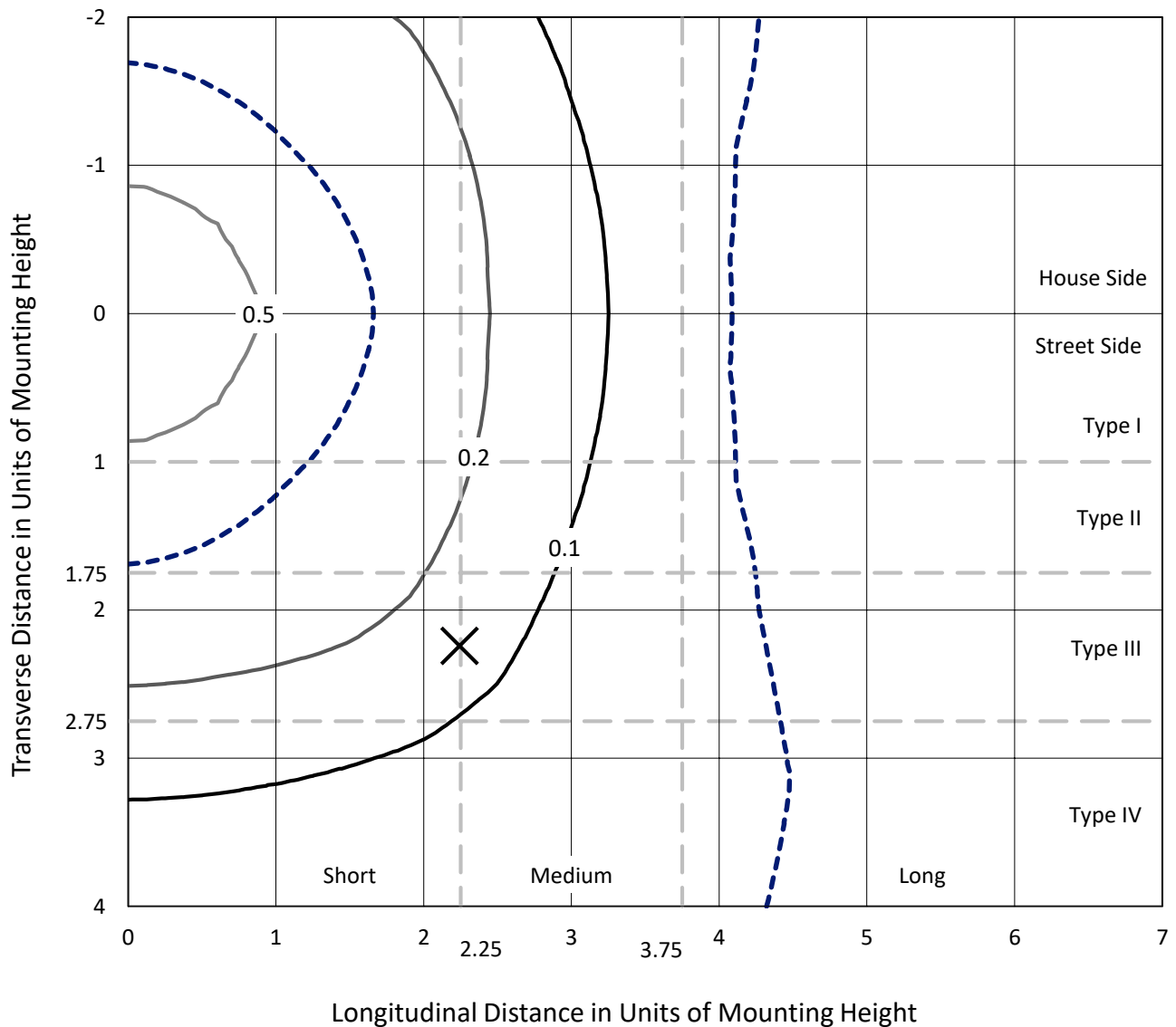


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

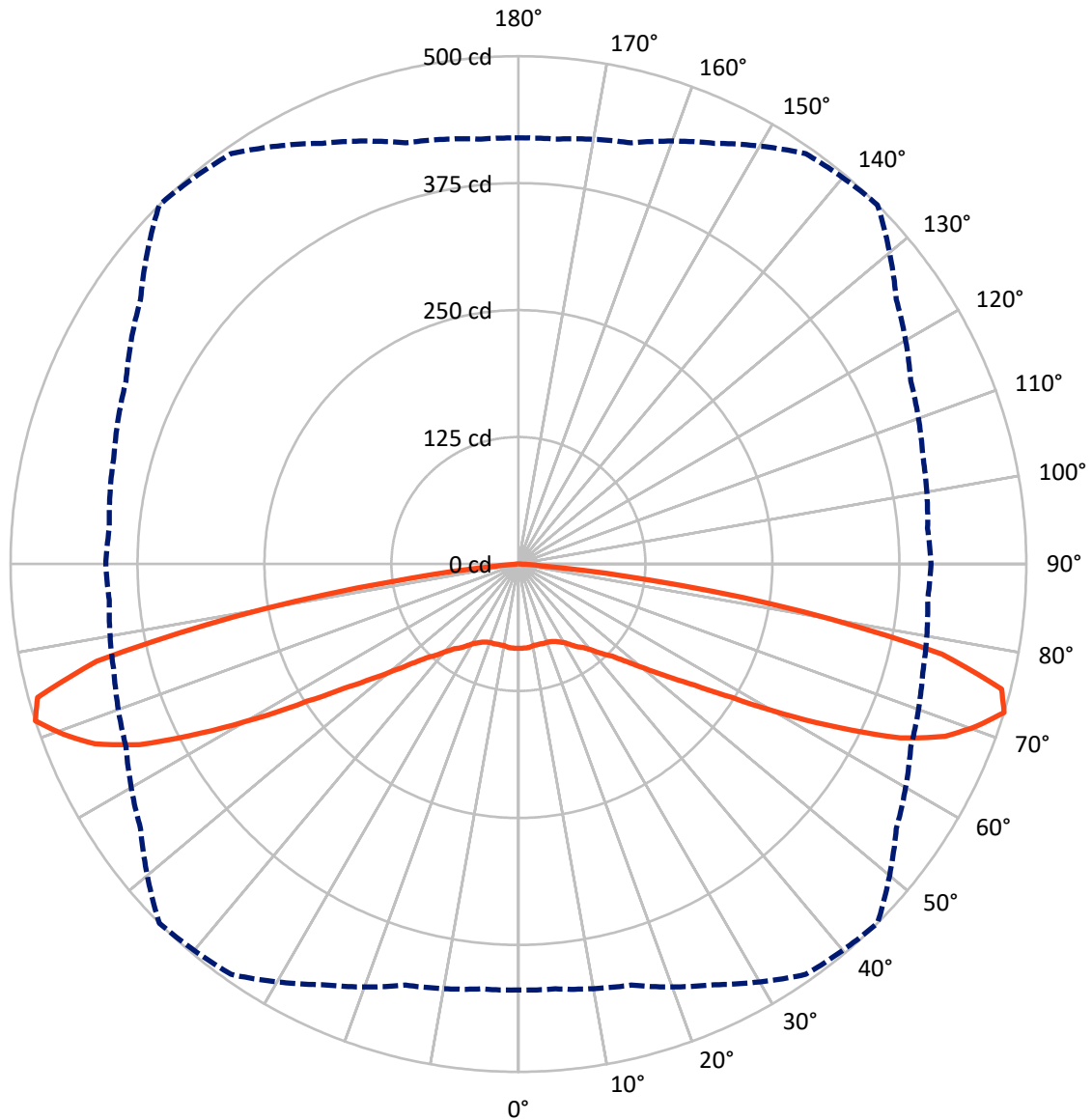


Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Non-Cutoff

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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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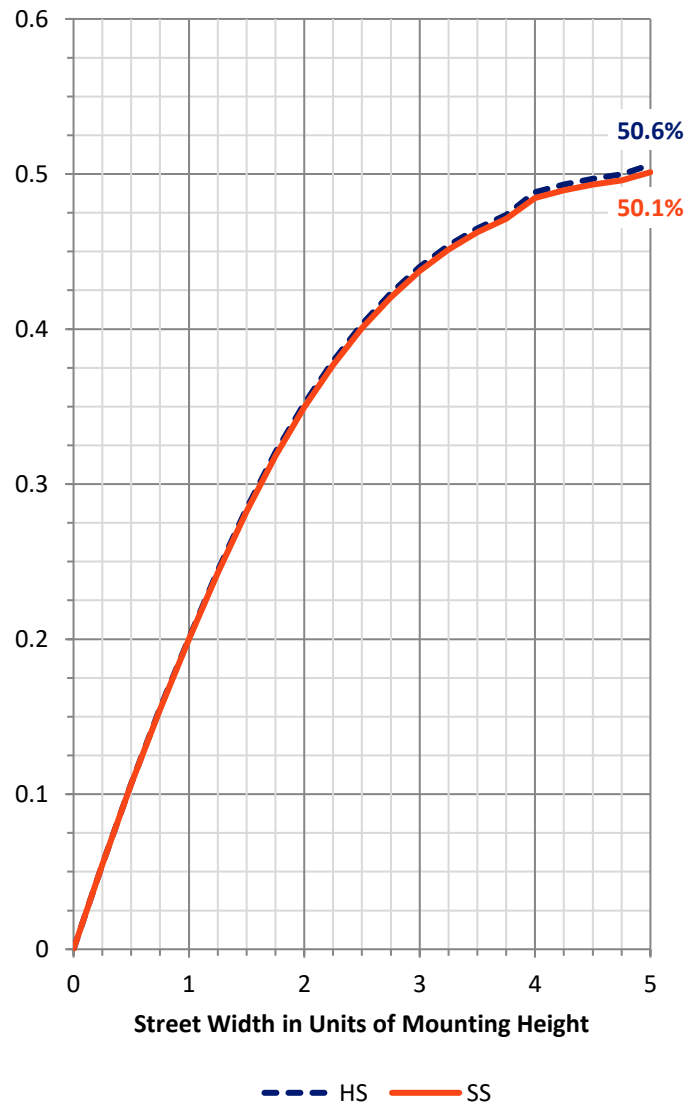
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	596.5	0.0	596.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	596.5	0.0	596.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	1193.0	0.0	1193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.7
10°-20°	23.4	2.0
20°-30°	40.1	3.4
30°-40°	62.9	5.3
40°-50°	104.2	8.7
50°-60°	192.1	16.1
60°-70°	356.8	29.9
70°-80°	371.5	31.1
80°-90°	34.1	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°	1193.0	100.0
0°-180°	1193.0	100.0



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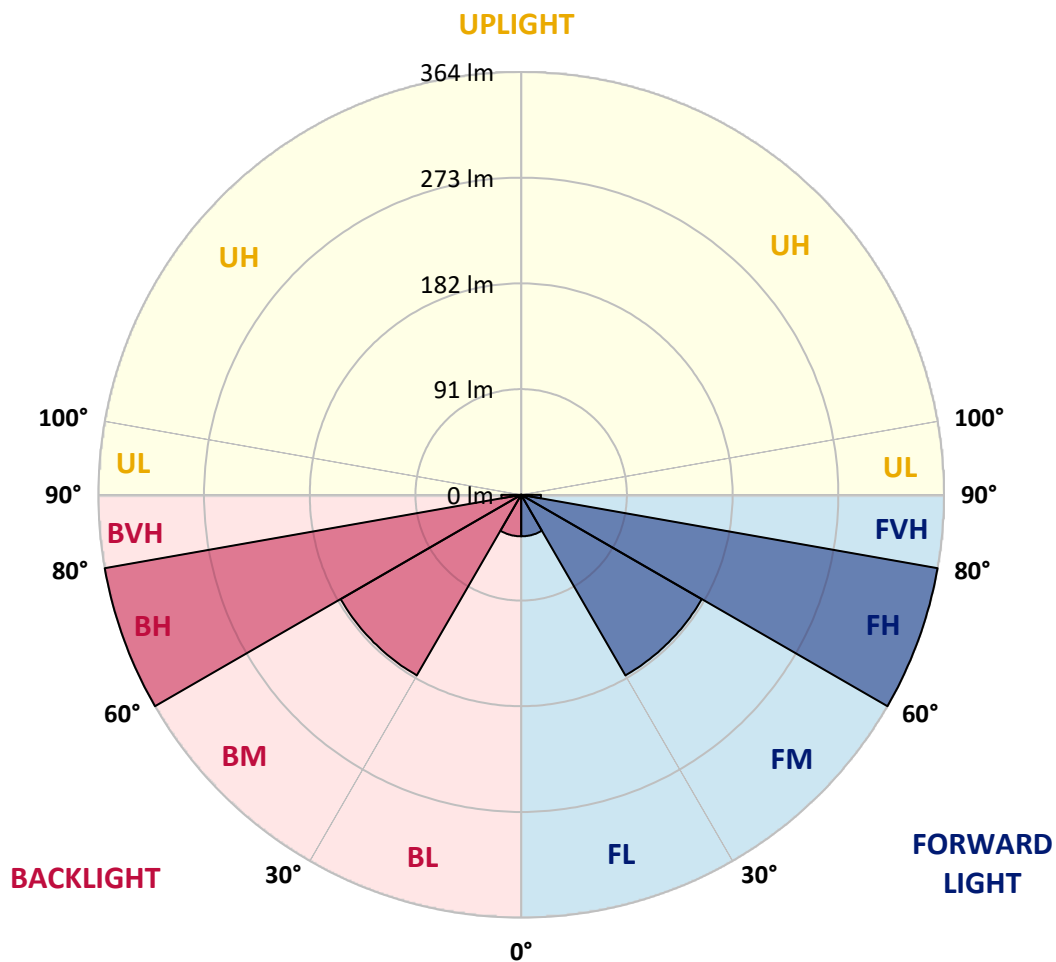
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	35.7	3.0			
FM (30°-60°)	179.6	15.1			
FH (60°-80°)	364.1	30.5			G0/660
FVH (80°-90°)	17.1	1.4			G1/100
BL (0°-30°)	35.7	3.0	B0/110		
BM (30°-60°)	179.6	15.1	B0/220		
BH (60°-80°)	364.1	30.5	B1/500		G0/660
BVH (80°-90°)	17.1	1.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
2.5°	83.5	83.5	83.5	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
5°	83.5	83.5	83.5	83.5	83.0	83.0	83.0	82.6	82.6	82.6	83.0
7.5°	83.0	83.5	83.0	83.0	82.6	82.6	82.1	82.1	82.1	82.1	82.1
10°	83.5	83.5	83.0	82.6	82.1	81.6	81.6	81.6	81.6	82.1	82.1
12.5°	84.0	84.0	83.0	82.1	82.1	81.6	81.6	81.6	81.6	82.1	82.6
15°	84.5	84.5	83.5	82.1	82.1	81.6	81.6	81.6	82.6	83.0	83.5
17.5°	85.5	85.0	83.5	82.6	82.1	82.1	82.1	82.1	83.0	84.0	84.0
20°	85.5	85.5	84.0	82.6	82.6	82.1	82.6	82.6	83.5	84.5	85.0
22.5°	87.0	86.5	84.5	83.5	83.0	83.0	83.5	83.5	84.5	85.5	86.0
25°	88.4	88.4	86.5	85.0	84.5	84.5	85.0	85.0	86.0	87.4	87.9
27.5°	91.3	90.9	88.9	87.4	87.0	87.0	87.9	87.9	88.4	89.9	90.4
30°	93.8	93.8	91.8	91.3	90.4	89.9	90.9	91.8	91.8	92.8	93.3
32.5°	95.7	95.7	94.8	94.8	95.3	94.8	95.7	95.3	94.8	95.7	95.7
35°	99.2	99.2	98.2	97.7	99.7	100.1	99.7	98.2	98.2	99.2	99.7
37.5°	104.5	104.5	103.6	102.6	103.1	104.5	103.1	102.6	103.6	105.0	105.5
40°	112.4	112.8	111.9	111.4	109.9	111.4	109.9	110.9	112.4	113.3	113.3
42.5°	121.1	121.6	120.2	119.2	119.7	120.7	118.7	119.2	121.1	122.6	122.6
45°	134.8	134.3	131.9	130.4	129.0	129.4	128.5	130.9	132.9	135.3	136.3
47.5°	148.0	147.5	146.5	145.1	143.1	143.6	143.6	145.6	148.0	150.5	150.5
50°	164.6	164.6	163.2	162.2	160.7	161.7	160.7	163.2	166.1	168.0	168.5
52.5°	183.7	183.2	183.2	182.7	181.7	183.7	182.2	185.1	187.6	188.1	189.0
55°	203.7	205.2	207.1	207.1	208.6	210.5	209.6	210.0	212.0	210.0	211.0
57.5°	229.6	231.1	234.0	237.9	242.8	248.2	244.7	242.3	238.4	235.5	235.0
60°	256.5	257.9	263.8	275.5	287.7	299.4	289.2	277.9	269.2	261.8	261.3
62.5°	285.8	288.2	296.5	314.1	337.5	355.1	339.0	317.0	300.9	289.7	290.2
65°	324.4	325.8	334.6	355.1	391.8	413.3	388.3	359.0	339.0	326.3	326.8
67.5°	382.5	381.5	385.9	405.4	435.7	453.3	423.5	399.6	379.1	364.4	366.9
70°	423.0	422.5	425.5	446.0	475.3	478.7	448.9	422.1	405.0	396.2	396.2
72.5°	419.6	420.1	429.4	457.2	493.4	500.2	454.3	426.4	412.3	404.5	406.4
75°	339.5	340.5	366.9	417.7	478.2	491.4	442.1	395.2	354.2	331.7	327.8
77.5°	163.2	164.6	203.7	287.7	385.9	426.4	382.5	283.8	207.6	168.5	172.4
80°	49.3	50.8	67.4	118.2	220.8	284.8	228.6	116.7	59.6	43.5	43.5
82.5°	10.7	13.2	15.6	25.9	76.2	129.9	76.2	28.8	17.6	12.7	11.7
85°	5.9	5.9	8.8	9.3	12.2	21.5	14.7	11.7	10.3	6.8	6.8
87.5°	2.4	2.4	4.4	4.4	4.9	3.4	5.4	5.9	5.9	3.4	3.4
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)