

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: P459865

Luminaire Tested: **NAV-SA5A-AMB-U-5WQ**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459865
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-SA5A-AMB-U-5WQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(5) 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: 5603 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 101
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

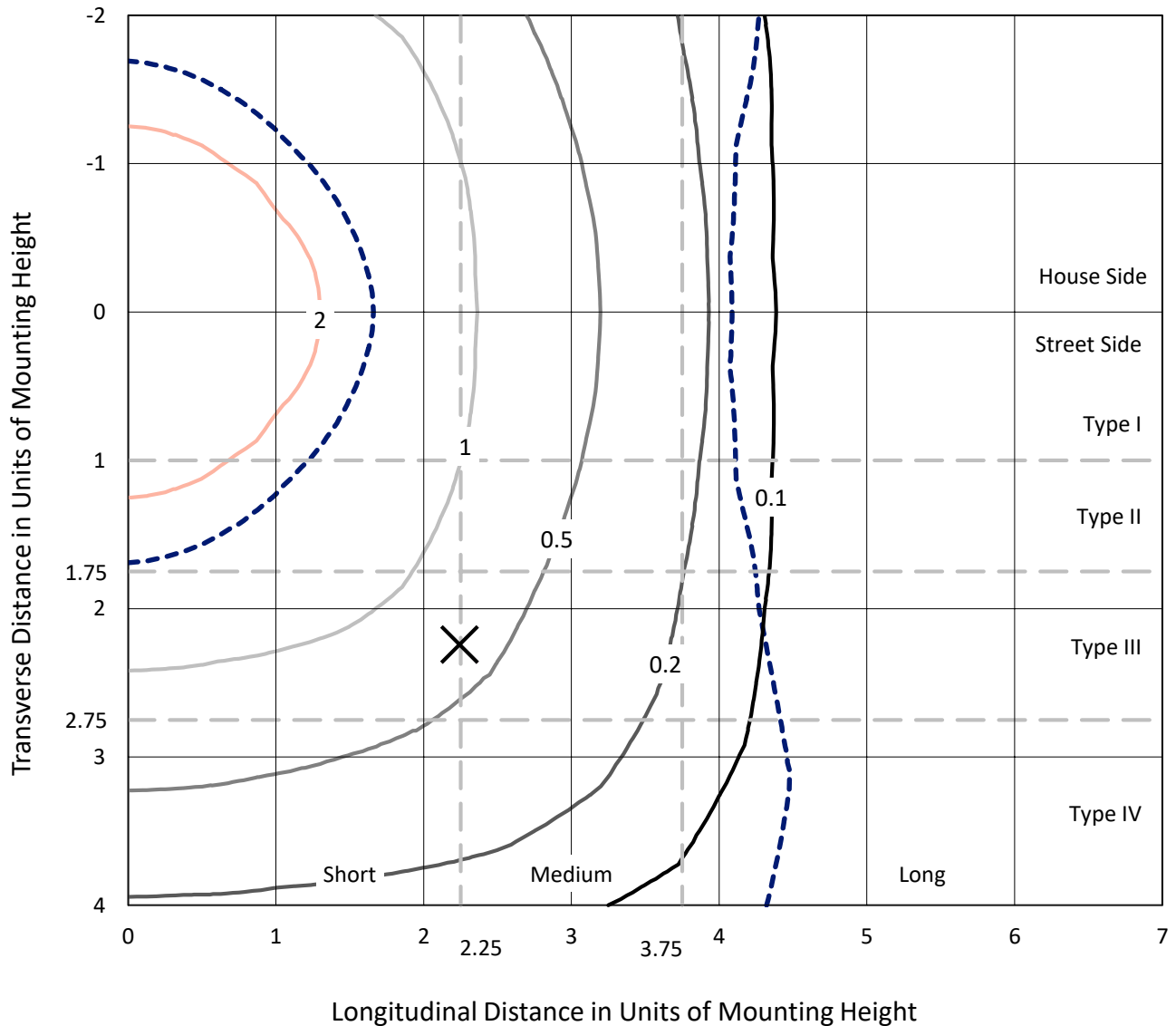


REPORT NUMBER: P459865

CATALOG NUMBER: NAV-SA5A-AMB-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

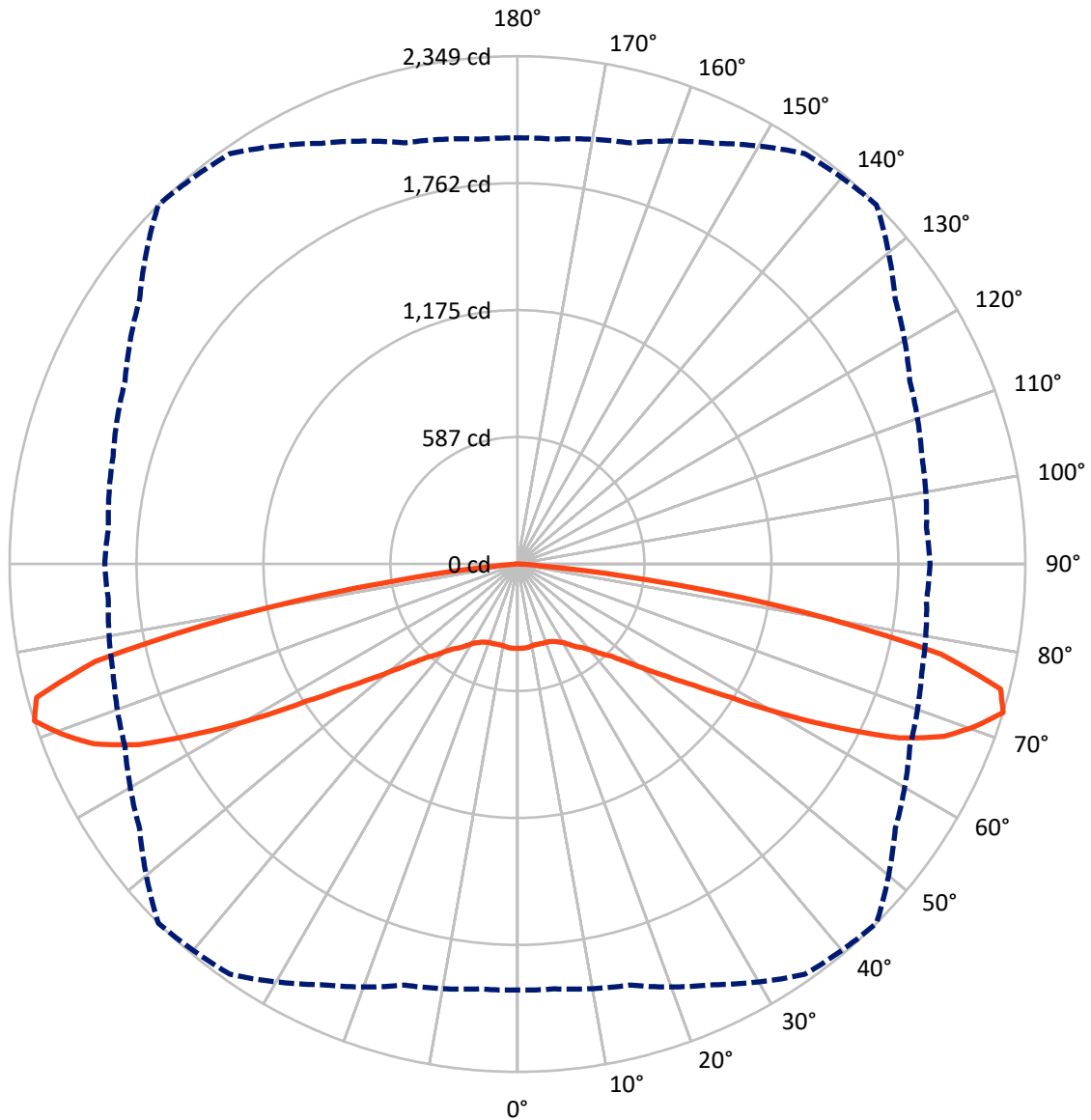


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P459865

CATALOG NUMBER: NAV-SA5A-AMB-U-5WQ

Luminous Intensity Polar Plot



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



REPORT NUMBER: P459865

CATALOG NUMBER: NAV-SA5A-AMB-U-5WQ

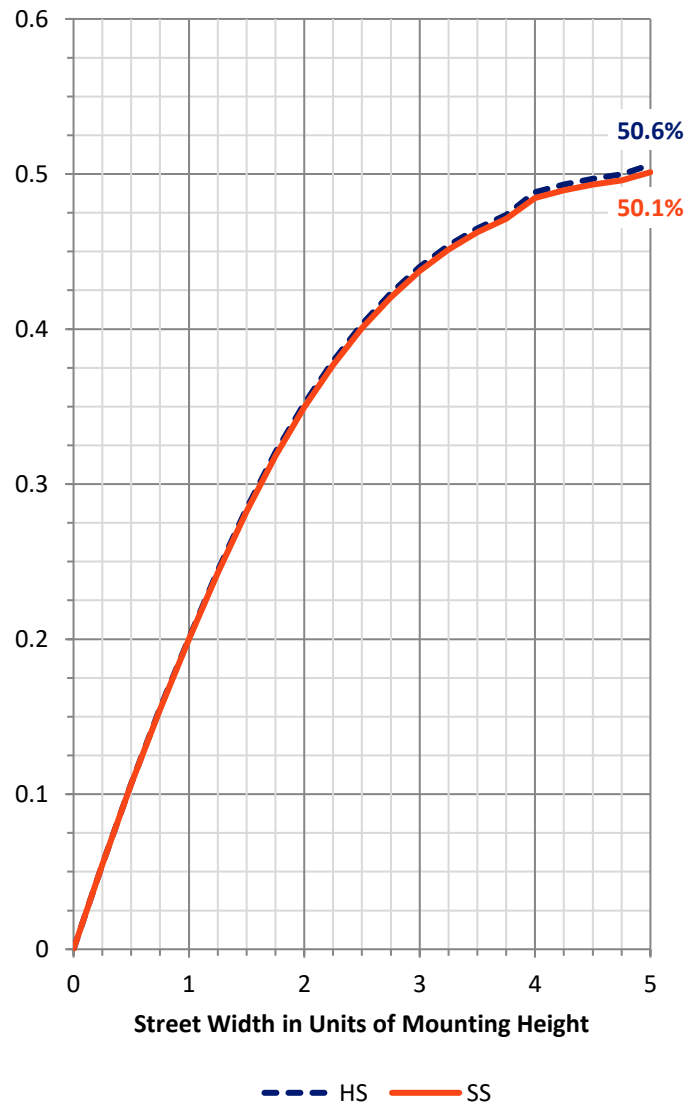
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2801.5	0.0	2801.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2801.5	0.0	2801.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5603.0	0.0	5603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	0.7
10°-20°	110.0	2.0
20°-30°	188.5	3.4
30°-40°	295.6	5.3
40°-50°	489.2	8.7
50°-60°	902.0	16.1
60°-70°	1675.6	29.9
70°-80°	1744.6	31.1
80°-90°	160.3	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°	5603.0	100.0
0°-180°	5603.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459865

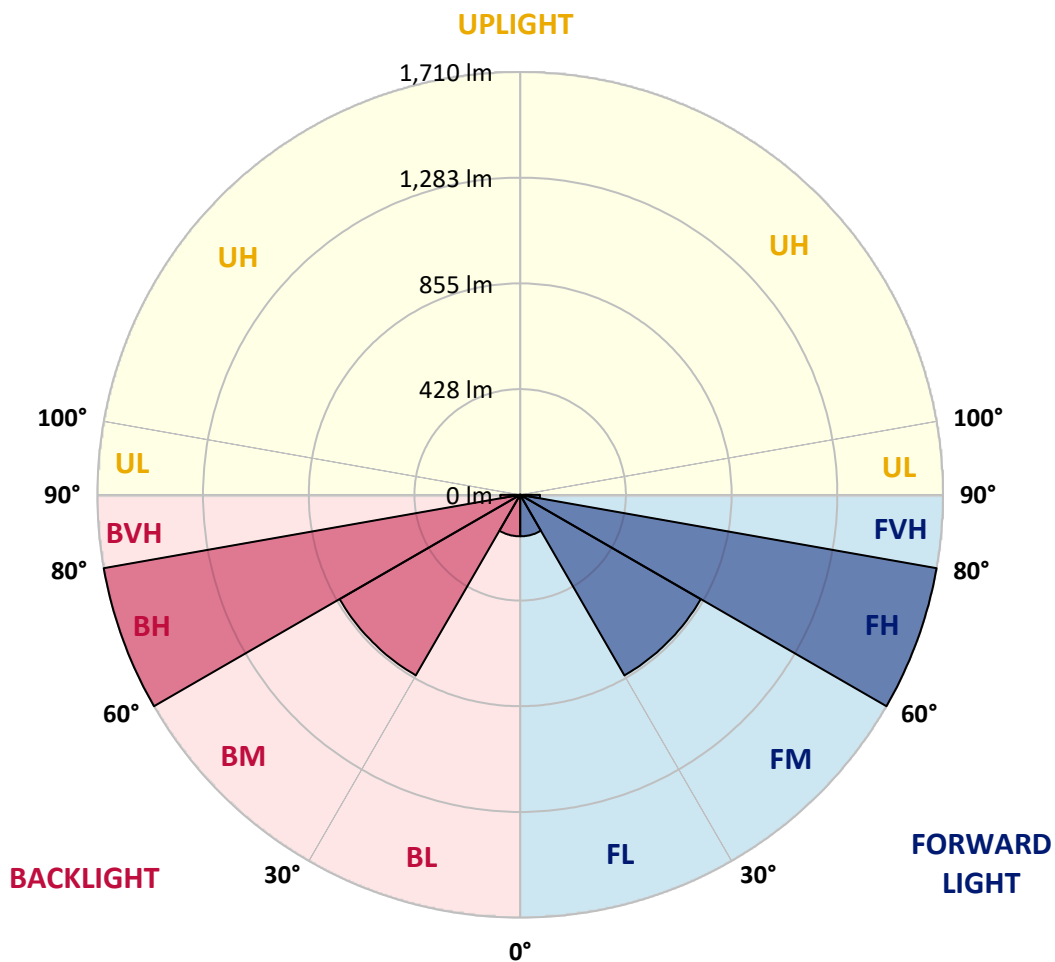
CATALOG NUMBER: NAV-SA5A-AMB-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.8	3.0			
FM (30°-60°)	843.4	15.1			
FH (60°-80°)	1710.1	30.5			G1/1800
FVH (80°-90°)	80.2	1.4			G1/100
BL (0°-30°)	167.8	3.0	B1/500		
BM (30°-60°)	843.4	15.1	B1/1000		
BH (60°-80°)	1710.1	30.5	B3/2500		G1/1800
BVH (80°-90°)	80.2	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





REPORT NUMBER: P459865

CATALOG NUMBER: NAV-SA5A-AMB-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0
2.5°	392.3	392.3	392.3	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0
5°	392.3	392.3	392.3	392.3	390.0	390.0	390.0	387.7	387.7	387.7	390.0
7.5°	390.0	392.3	390.0	390.0	387.7	387.7	385.4	385.4	385.4	385.4	385.4
10°	392.3	392.3	390.0	387.7	385.4	383.1	383.1	383.1	383.1	385.4	385.4
12.5°	394.6	394.6	390.0	385.4	385.4	383.1	383.1	383.1	383.1	385.4	387.7
15°	396.9	396.9	392.3	385.4	385.4	383.1	383.1	383.1	387.7	390.0	392.3
17.5°	401.5	399.2	392.3	387.7	385.4	385.4	385.4	385.4	390.0	394.6	394.6
20°	401.5	401.5	394.6	387.7	387.7	385.4	387.7	387.7	392.3	396.9	399.2
22.5°	408.4	406.1	396.9	392.3	390.0	390.0	392.3	392.3	396.9	401.5	403.8
25°	415.3	415.3	406.1	399.2	396.9	396.9	399.2	399.2	403.8	410.7	413.0
27.5°	429.0	426.7	417.5	410.7	408.4	408.4	413.0	413.0	415.3	422.1	424.4
30°	440.5	440.5	431.3	429.0	424.4	422.1	426.7	431.3	431.3	435.9	438.2
32.5°	449.7	449.7	445.1	445.1	447.4	445.1	449.7	447.4	445.1	449.7	449.7
35°	465.7	465.7	461.1	458.8	468.0	470.3	468.0	461.1	461.1	465.7	468.0
37.5°	491.0	491.0	486.4	481.8	484.1	491.0	484.1	481.8	486.4	493.3	495.5
40°	527.7	530.0	525.4	523.1	516.2	523.1	516.2	520.8	527.7	532.3	532.3
42.5°	569.0	571.3	564.4	559.8	562.1	566.7	557.5	559.8	569.0	575.8	575.8
45°	633.2	630.9	619.4	612.6	605.7	608.0	603.4	614.8	624.0	635.5	640.1
47.5°	695.1	692.9	688.3	681.4	672.2	674.5	674.5	683.7	695.1	706.6	706.6
50°	773.1	773.1	766.3	761.7	754.8	759.4	754.8	766.3	780.0	789.2	791.5
52.5°	862.6	860.3	860.3	858.0	853.4	862.6	855.7	869.5	881.0	883.3	887.9
55°	956.7	963.6	972.7	972.7	979.6	988.8	984.2	986.5	995.7	986.5	991.1
57.5°	1078.3	1085.2	1098.9	1117.3	1140.2	1165.5	1149.4	1137.9	1119.6	1105.8	1103.5
60°	1204.5	1211.3	1238.9	1293.9	1351.3	1406.4	1358.2	1305.4	1264.1	1229.7	1227.4
62.5°	1342.1	1353.6	1392.6	1475.2	1585.3	1667.9	1592.2	1488.9	1413.2	1360.5	1362.8
65°	1523.4	1530.2	1571.5	1667.9	1840.0	1940.9	1823.9	1686.2	1592.2	1532.5	1534.8
67.5°	1796.4	1791.8	1812.4	1904.2	2046.4	2129.0	1989.1	1876.7	1780.3	1711.5	1723.0
70°	1986.8	1984.5	1998.3	2094.6	2232.3	2248.3	2108.4	1982.2	1901.9	1860.6	1860.6
72.5°	1970.7	1973.0	2016.6	2147.4	2317.2	2349.3	2133.6	2002.8	1936.3	1899.6	1908.8
75°	1594.5	1599.1	1723.0	1961.6	2246.0	2308.0	2076.3	1856.0	1663.3	1557.8	1539.4
77.5°	766.3	773.1	956.7	1351.3	1812.4	2002.8	1796.4	1332.9	975.0	791.5	809.9
80°	231.7	238.6	316.6	555.2	1037.0	1337.5	1073.7	548.3	279.9	204.2	204.2
82.5°	50.5	61.9	73.4	121.6	357.9	610.3	357.9	135.4	82.6	59.6	55.1
85°	27.5	27.5	41.3	43.6	57.4	100.9	68.8	55.1	48.2	32.1	32.1
87.5°	11.5	11.5	20.6	20.6	22.9	16.1	25.2	27.5	27.5	16.1	16.1
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)