

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: P459873

Luminaire Tested: **NAV-SA6A-AMB-U-5WQ**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459873  
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-SA6A-AMB-U-5WQ  
Description: NAVION AREA AND ROADWAY LUMINAIRE  
(6) 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: 6443 lumens  
Efficiency: N/A  
Efficacy: 54.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 119  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

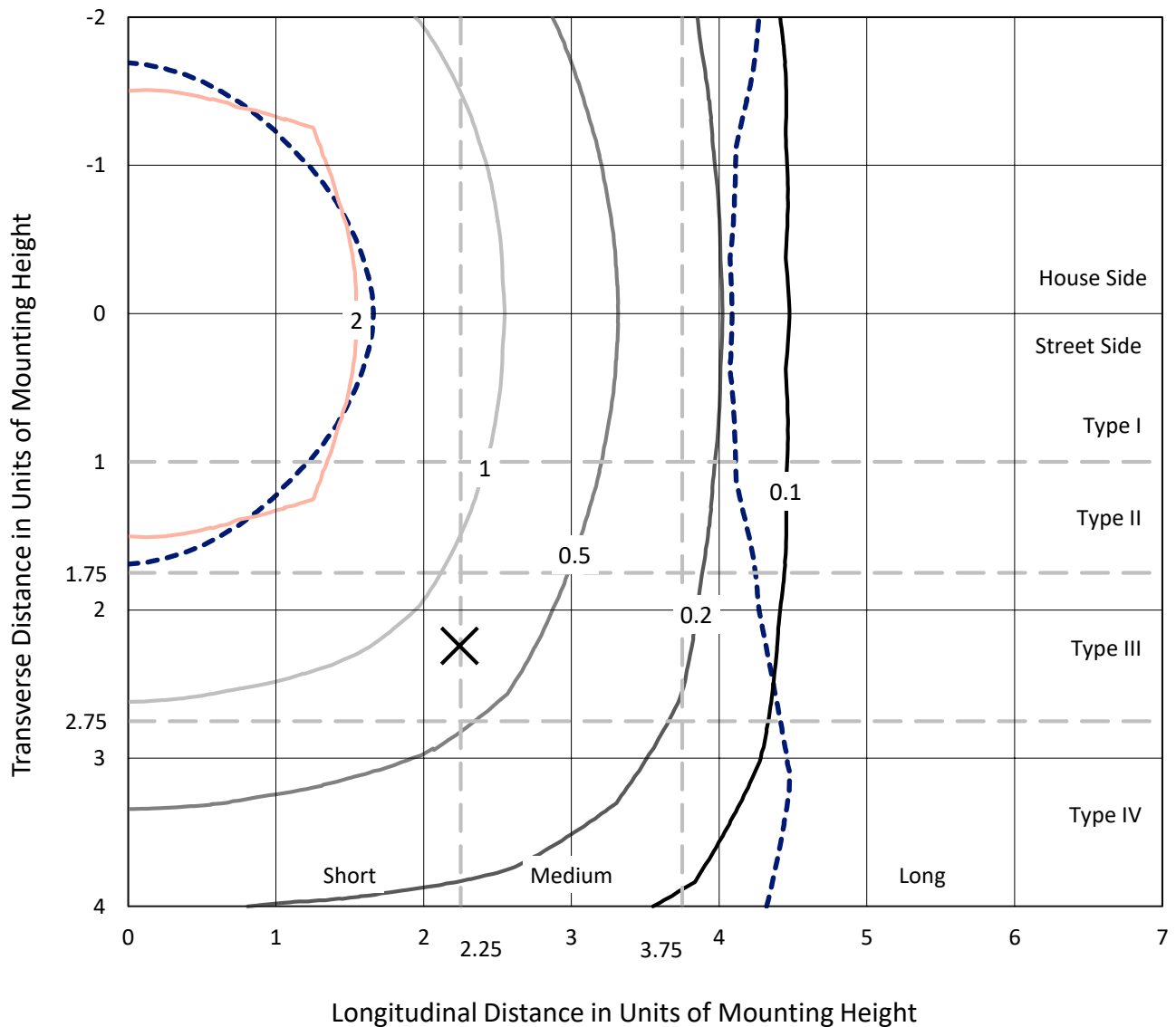


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

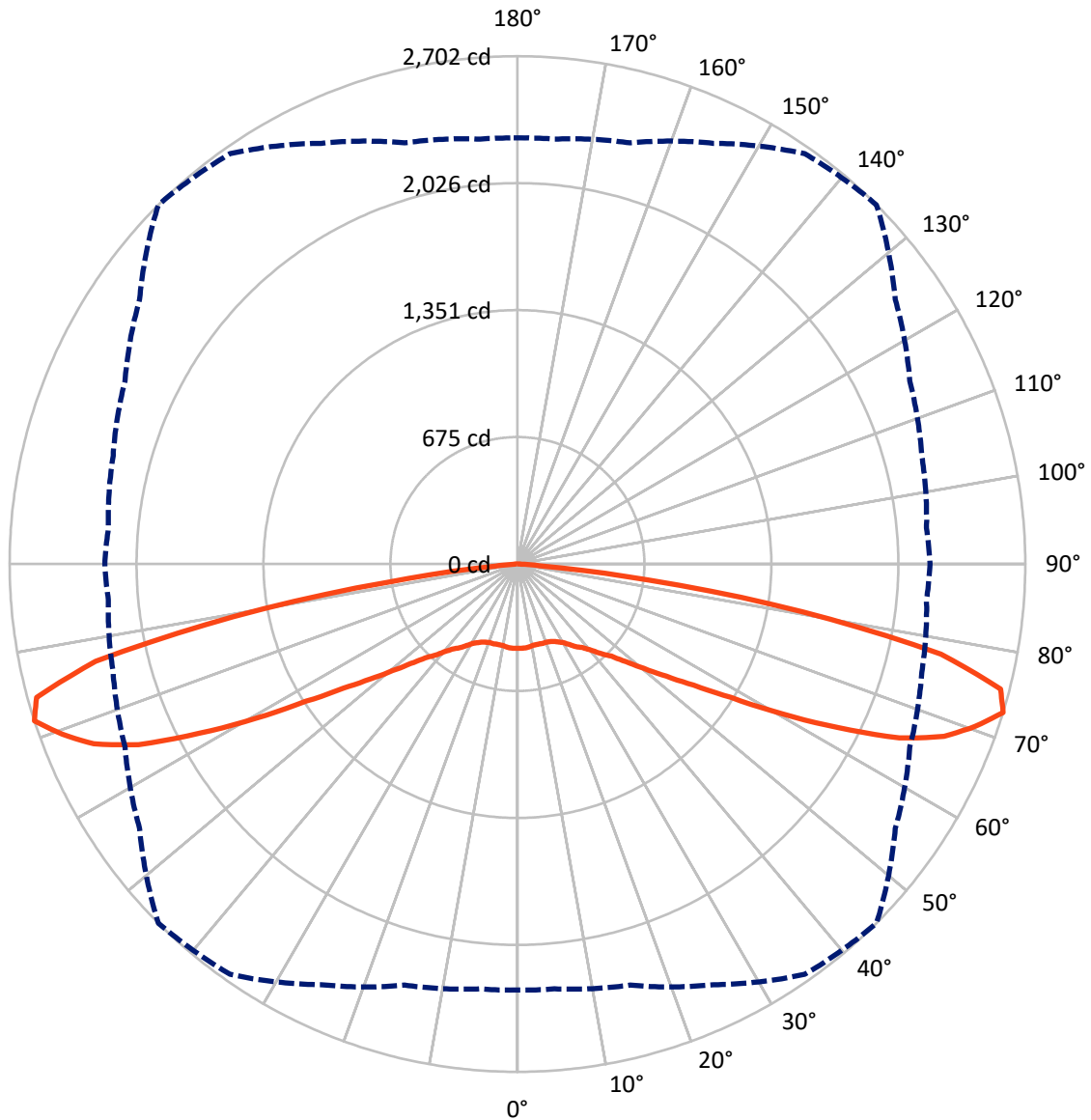


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Non-Cutoff

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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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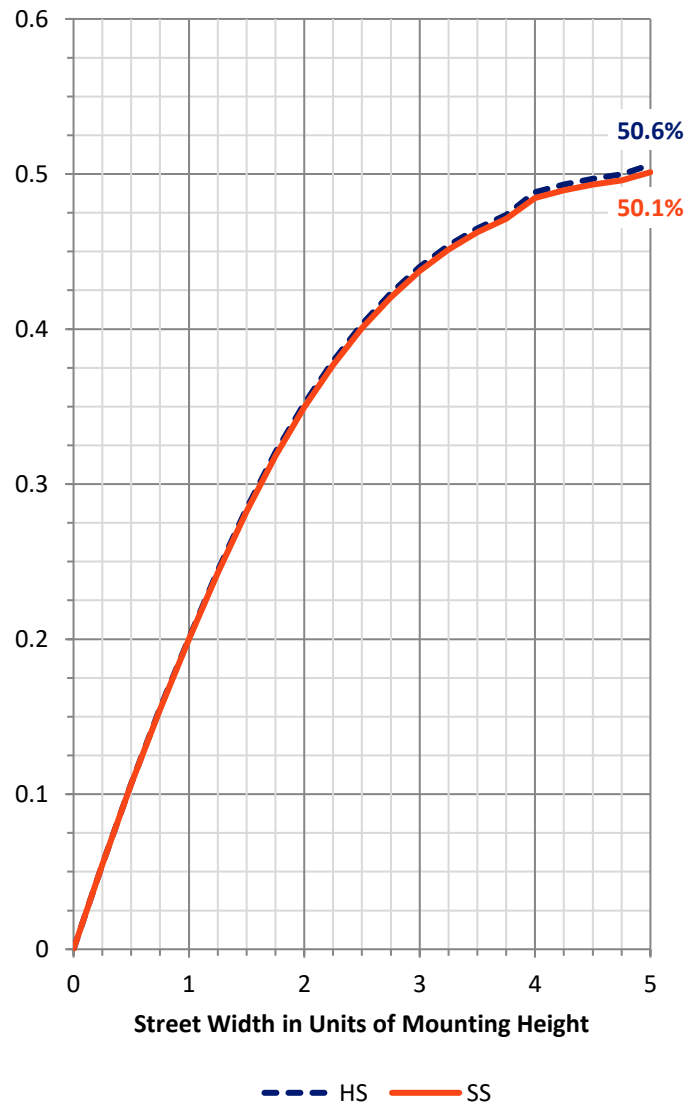
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3221.5	0.0	3221.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3221.5	0.0	3221.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6443.0	0.0	6443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.6	0.7
10°-20°	126.6	2.0
20°-30°	216.8	3.4
30°-40°	339.9	5.3
40°-50°	562.5	8.7
50°-60°	1037.2	16.1
60°-70°	1926.8	29.9
70°-80°	2006.2	31.1
80°-90°	184.4	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°	6443.0	100.0
0°-180°	6443.0	100.0

**Coefficient of Utilization**



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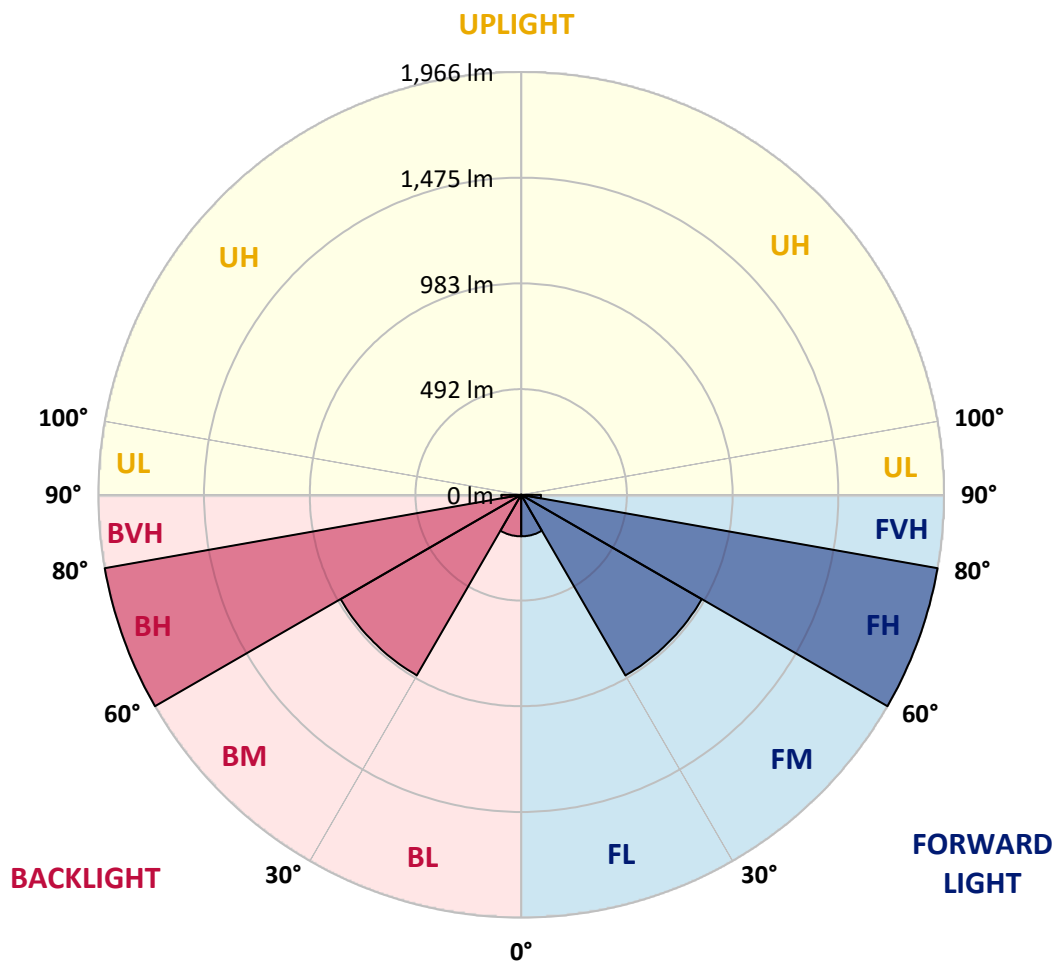
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.0	3.0			
FM (30°-60°)	969.9	15.1			
FH (60°-80°)	1966.5	30.5			G2/5000
FVH (80°-90°)	92.2	1.4			G1/100
BL (0°-30°)	193.0	3.0	B1/500		
BM (30°-60°)	969.9	15.1	B1/1000		
BH (60°-80°)	1966.5	30.5	B3/2500		G2/5000
BVH (80°-90°)	92.2	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	448.5	448.5	448.5	448.5	448.5	448.5	448.5	448.5	448.5	448.5	448.5
2.5°	451.1	451.1	451.1	448.5	448.5	448.5	448.5	448.5	448.5	448.5	448.5
5°	451.1	451.1	451.1	451.1	448.5	448.5	448.5	445.8	445.8	445.8	448.5
7.5°	448.5	451.1	448.5	448.5	445.8	445.8	443.2	443.2	443.2	443.2	443.2
10°	451.1	451.1	448.5	445.8	443.2	440.6	440.6	440.6	440.6	443.2	443.2
12.5°	453.8	453.8	448.5	443.2	443.2	440.6	440.6	440.6	440.6	443.2	445.8
15°	456.4	456.4	451.1	443.2	443.2	440.6	440.6	440.6	445.8	448.5	451.1
17.5°	461.7	459.0	451.1	445.8	443.2	443.2	443.2	443.2	448.5	453.8	453.8
20°	461.7	461.7	453.8	445.8	445.8	443.2	445.8	445.8	451.1	456.4	459.0
22.5°	469.6	467.0	456.4	451.1	448.5	448.5	451.1	451.1	456.4	461.7	464.3
25°	477.5	477.5	467.0	459.0	456.4	456.4	459.0	459.0	464.3	472.2	474.9
27.5°	493.3	490.7	480.1	472.2	469.6	469.6	474.9	474.9	477.5	485.4	488.1
30°	506.5	506.5	496.0	493.3	488.1	485.4	490.7	496.0	496.0	501.3	503.9
32.5°	517.1	517.1	511.8	511.8	514.4	511.8	517.1	514.4	511.8	517.1	517.1
35°	535.5	535.5	530.3	527.6	538.2	540.8	538.2	530.3	530.3	535.5	538.2
37.5°	564.6	564.6	559.3	554.0	556.7	564.6	556.7	554.0	559.3	567.2	569.8
40°	606.8	609.4	604.1	601.5	593.6	601.5	593.6	598.9	606.8	612.1	612.1
42.5°	654.3	656.9	649.0	643.7	646.3	651.6	641.1	643.7	654.3	662.2	662.2
45°	728.1	725.5	712.3	704.4	696.5	699.1	693.8	707.0	717.6	730.8	736.0
47.5°	799.4	796.7	791.4	783.5	773.0	775.6	775.6	786.2	799.4	812.6	812.6
50°	889.1	889.1	881.1	875.9	868.0	873.2	868.0	881.1	897.0	907.5	910.2
52.5°	991.9	989.3	989.3	986.7	981.4	991.9	984.0	999.9	1013.1	1015.7	1021.0
55°	1100.1	1108.0	1118.6	1118.6	1126.5	1137.0	1131.8	1134.4	1145.0	1134.4	1139.7
57.5°	1239.9	1247.8	1263.7	1284.8	1311.2	1340.2	1321.7	1308.5	1287.4	1271.6	1269.0
60°	1385.0	1392.9	1424.6	1487.9	1553.9	1617.2	1561.8	1501.1	1453.6	1414.1	1411.4
62.5°	1543.3	1556.5	1601.4	1696.3	1823.0	1917.9	1830.9	1712.2	1625.1	1564.4	1567.1
65°	1751.7	1759.7	1807.1	1917.9	2115.8	2231.9	2097.3	1939.0	1830.9	1762.3	1764.9
67.5°	2065.7	2060.4	2084.1	2189.7	2353.2	2448.2	2287.3	2158.0	2047.2	1968.1	1981.3
70°	2284.6	2282.0	2297.8	2408.6	2566.9	2585.4	2424.5	2279.4	2187.0	2139.5	2139.5
72.5°	2266.2	2268.8	2318.9	2469.3	2664.5	2701.5	2453.5	2303.1	2226.6	2184.4	2194.9
75°	1833.5	1838.8	1981.3	2255.6	2582.8	2654.0	2387.5	2134.3	1912.7	1791.3	1770.2
77.5°	881.1	889.1	1100.1	1553.9	2084.1	2303.1	2065.7	1532.8	1121.2	910.2	931.3
80°	266.5	274.4	364.1	638.4	1192.4	1538.0	1234.7	630.5	321.9	234.8	234.8
82.5°	58.0	71.2	84.4	139.8	411.6	701.8	411.6	155.7	95.0	68.6	63.3
85°	31.7	31.7	47.5	50.1	66.0	116.1	79.1	63.3	55.4	36.9	36.9
87.5°	13.2	13.2	23.7	23.7	26.4	18.5	29.0	31.7	31.7	18.5	18.5
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)