

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: P459872

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459872
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-SA6A-AMB-U-5MQ
Description: NAVION AREA AND ROADWAY LUMINAIRE
(6) 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: 6469 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 119
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

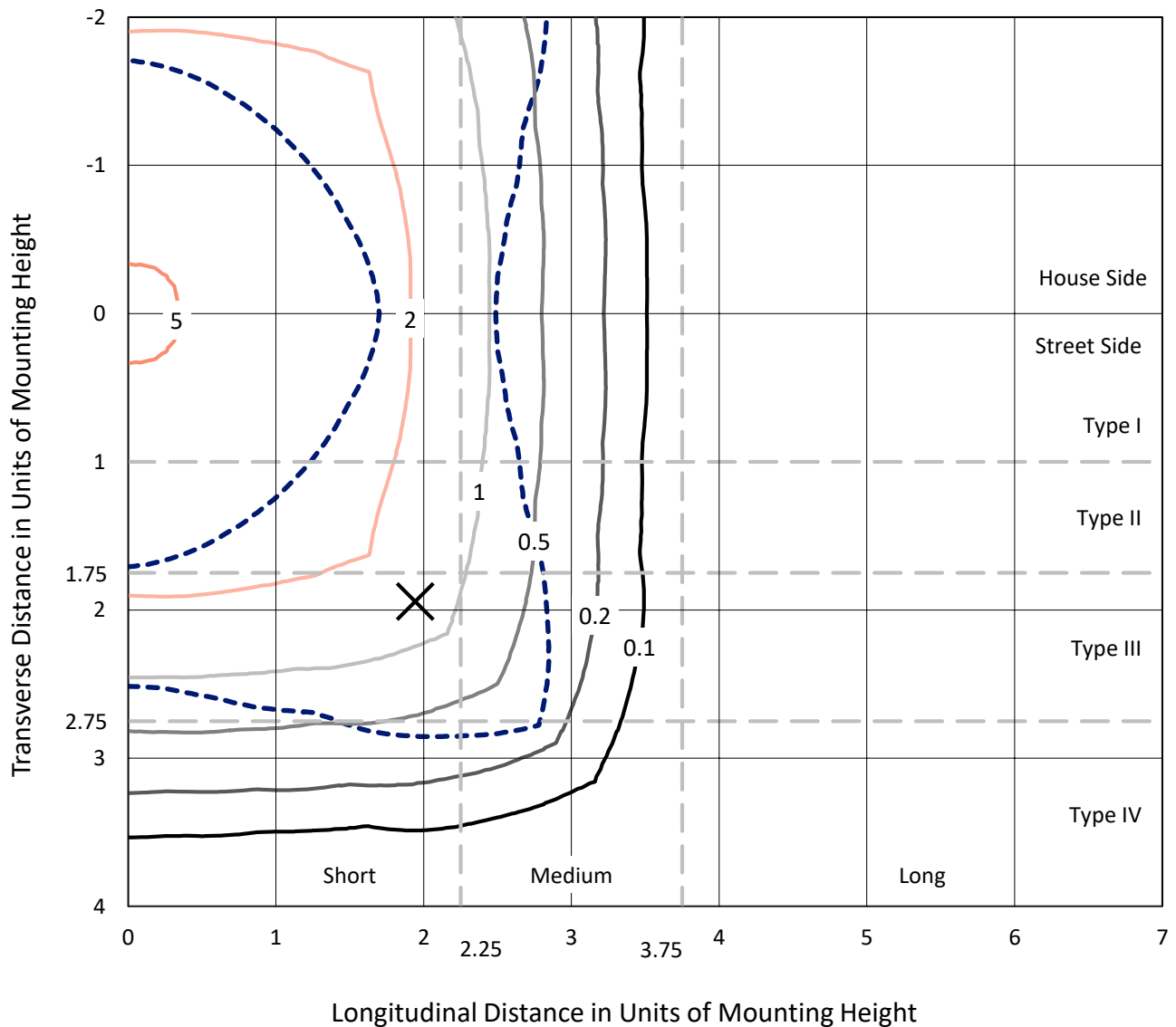


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

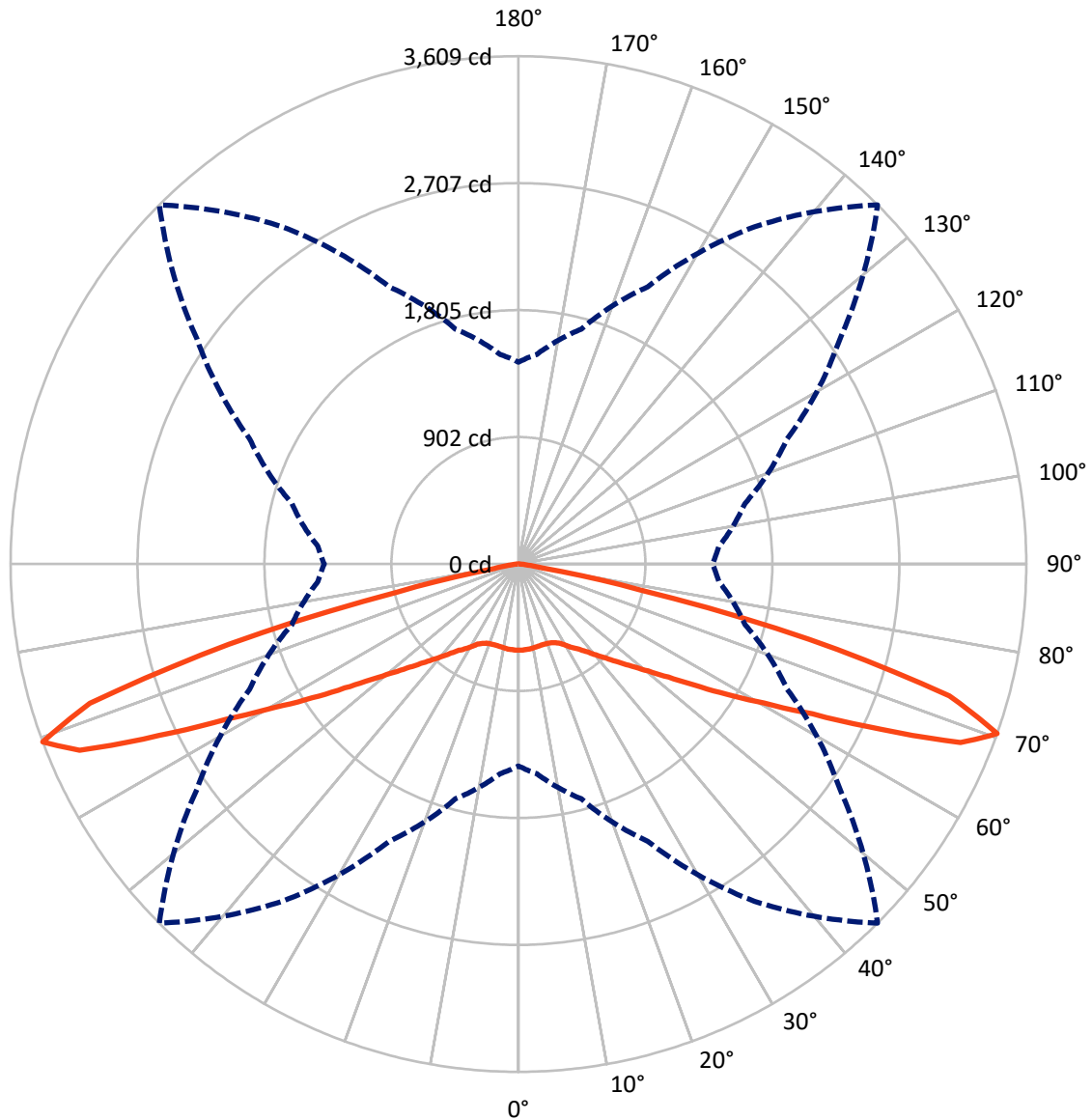


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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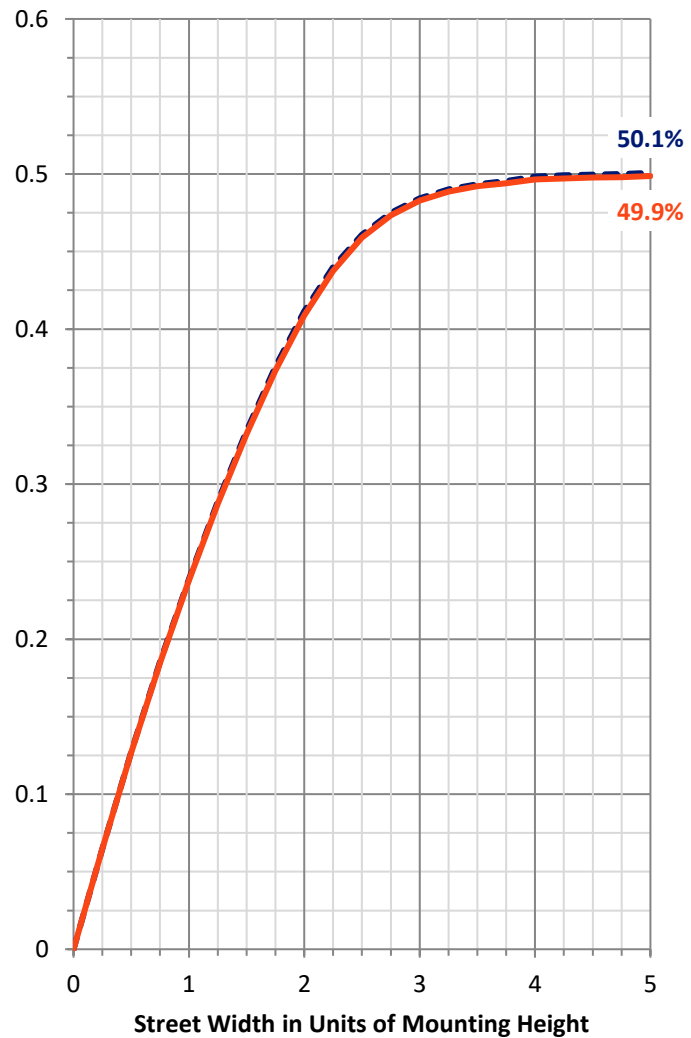
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3234.5	0.0	3234.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3234.5	0.0	3234.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6469.0	0.0	6469.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	0.9
10°-20°	168.8	2.6
20°-30°	286.2	4.4
30°-40°	469.2	7.3
40°-50°	784.5	12.1
50°-60°	1377.2	21.3
60°-70°	2262.5	35.0
70°-80°	1019.9	15.8
80°-90°	42.5	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°	6469.0	100.0
0°-180°	6469.0	100.0



--- HS — SS

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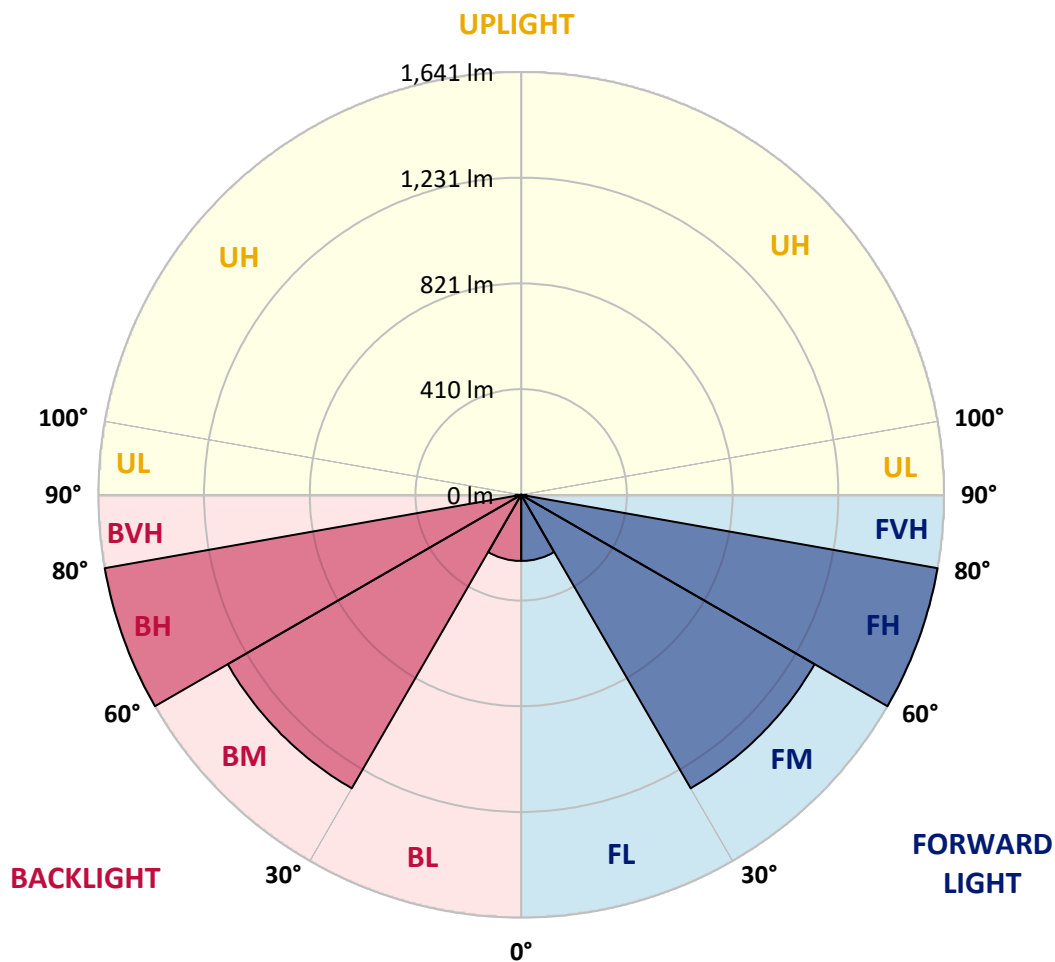
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.6	4.0			
FM (30°-60°)	1315.4	20.3			
FH (60°-80°)	1641.2	25.4			G1/1800
FVH (80°-90°)	21.2	0.3			G1/100
BL (0°-30°)	256.6	4.0	B1/500		
BM (30°-60°)	1315.4	20.3	B2/2500		
BH (60°-80°)	1641.2	25.4	B3/2500		G1/1800
BVH (80°-90°)	21.2	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	614.7	614.7	614.7	614.7	612.1	612.1	612.1	612.1	612.1	612.1	612.1
5°	614.7	614.7	614.7	612.1	612.1	609.5	612.1	609.5	609.5	609.5	612.1
7.5°	614.7	614.7	614.7	612.1	612.1	609.5	609.5	606.8	606.8	606.8	606.8
10°	606.8	606.8	606.8	606.8	606.8	604.2	604.2	601.5	601.5	601.5	601.5
12.5°	598.9	601.5	598.9	598.9	601.5	601.5	598.9	596.3	593.6	593.6	596.3
15°	593.6	593.6	593.6	593.6	598.9	598.9	598.9	593.6	591.0	591.0	591.0
17.5°	588.3	588.3	588.3	593.6	596.3	598.9	596.3	593.6	591.0	585.7	585.7
20°	585.7	585.7	588.3	593.6	598.9	601.5	601.5	596.3	591.0	585.7	585.7
22.5°	585.7	585.7	591.0	598.9	604.2	606.8	606.8	601.5	596.3	591.0	591.0
25°	596.3	593.6	598.9	609.5	617.4	620.0	622.6	614.7	606.8	601.5	598.9
27.5°	612.1	614.7	620.0	630.6	641.1	638.5	641.1	635.8	630.6	622.6	622.6
30°	643.8	643.8	651.7	662.2	670.1	672.8	672.8	667.5	659.6	654.3	651.7
32.5°	680.7	680.7	688.6	701.8	707.1	709.7	707.1	701.8	691.2	683.3	680.7
35°	717.6	717.6	728.2	744.0	749.3	744.0	746.6	741.4	733.5	728.2	725.5
37.5°	762.5	762.5	775.7	788.9	796.8	791.5	799.4	796.8	786.2	780.9	778.3
40°	815.2	817.9	831.1	846.9	846.9	849.5	857.5	860.1	849.5	844.3	839.0
42.5°	881.2	886.5	897.0	912.9	915.5	915.5	926.1	928.7	923.4	912.9	907.6
45°	960.4	965.6	981.5	997.3	997.3	992.0	1007.8	1021.0	1010.5	994.7	989.4
47.5°	1052.7	1058.0	1079.1	1092.3	1097.5	1084.4	1108.1	1123.9	1110.7	1100.2	1089.6
50°	1163.5	1174.1	1195.2	1216.3	1211.0	1195.2	1226.8	1245.3	1237.4	1213.6	1205.7
52.5°	1282.2	1290.1	1332.4	1353.5	1353.5	1335.0	1377.2	1393.0	1369.3	1337.6	1327.1
55°	1443.2	1440.5	1469.6	1517.0	1535.5	1517.0	1551.3	1556.6	1525.0	1498.6	1480.1
57.5°	1609.4	1614.7	1654.2	1699.1	1725.5	1746.6	1746.6	1733.4	1688.5	1638.4	1627.9
60°	1802.0	1817.8	1865.3	1923.3	1976.1	2005.1	1960.3	1933.9	1865.3	1823.1	1807.3
62.5°	2015.7	2036.8	2108.0	2203.0	2287.4	2345.5	2271.6	2197.7	2110.7	2044.7	2034.2
65°	2081.6	2100.1	2239.9	2445.7	2693.7	2830.9	2596.1	2419.4	2213.6	2076.4	2060.5
67.5°	1936.5	1944.5	2121.2	2474.8	2973.4	3387.6	2870.5	2427.3	2113.3	1915.4	1904.9
70°	1435.3	1495.9	1728.1	2174.0	2925.9	3609.2	2788.7	2108.0	1667.4	1430.0	1379.9
72.5°	841.6	828.4	1005.2	1443.2	2390.3	3202.9	2269.0	1430.0	1026.3	846.9	807.3
75°	329.8	335.1	419.5	667.5	1353.5	2134.4	1358.7	672.8	374.6	306.0	303.4
77.5°	113.4	116.1	126.6	160.9	435.3	881.2	448.5	163.6	124.0	131.9	134.6
80°	71.2	68.6	76.5	79.2	95.0	174.1	102.9	84.4	81.8	81.8	84.4
82.5°	36.9	39.6	52.8	55.4	58.0	66.0	66.0	63.3	55.4	42.2	36.9
85°	23.7	18.5	36.9	39.6	36.9	34.3	42.2	47.5	42.2	23.7	26.4
87.5°	10.6	10.6	18.5	18.5	18.5	13.2	18.5	26.4	26.4	10.6	10.6
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)