

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: P233625

Luminaire Tested: **VRDN-C018-D-UNV-T5-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-16)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: VRDN-C018-D-UNV-T5-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1210mA LED AND TYPE V OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5927 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

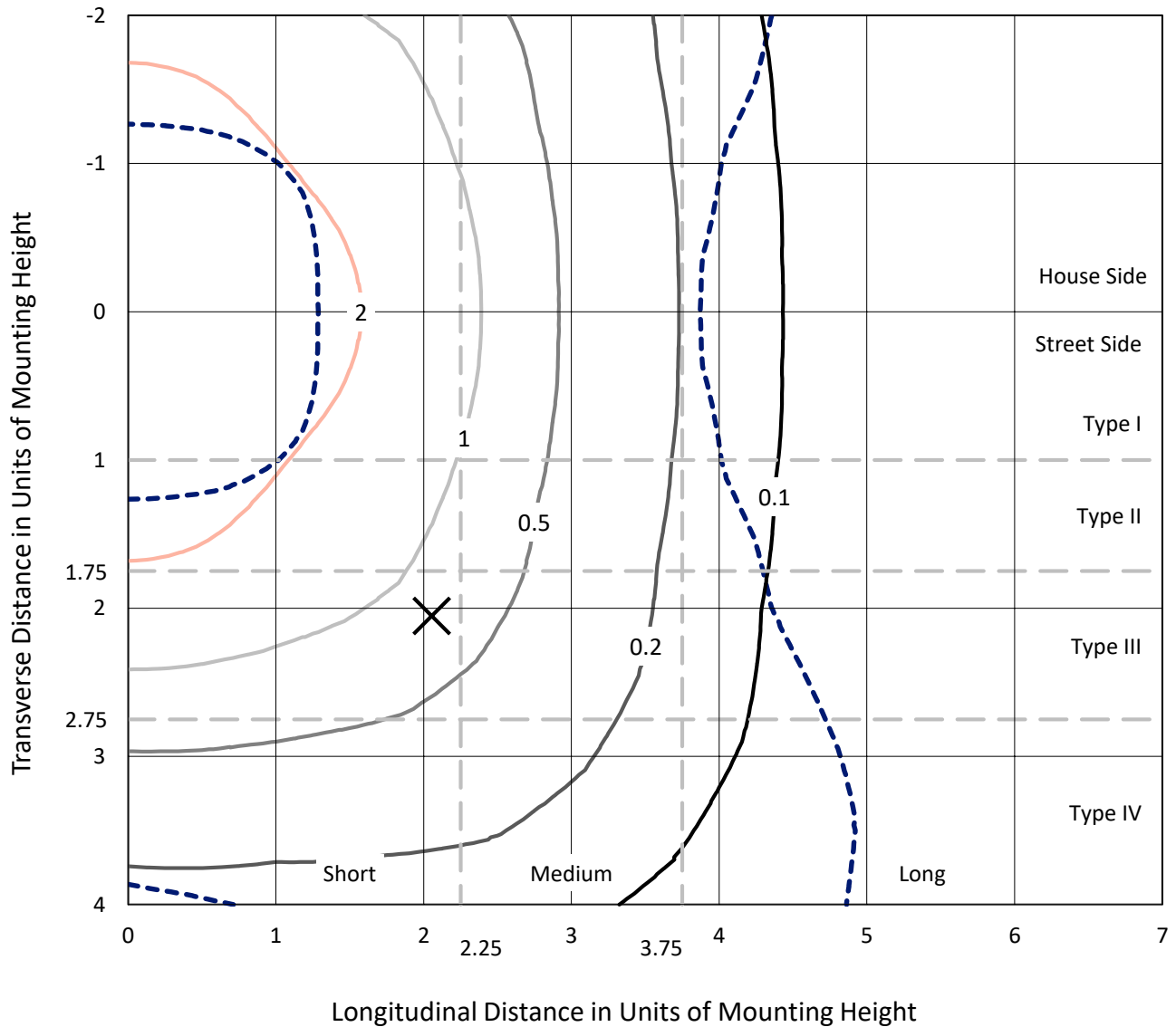
Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

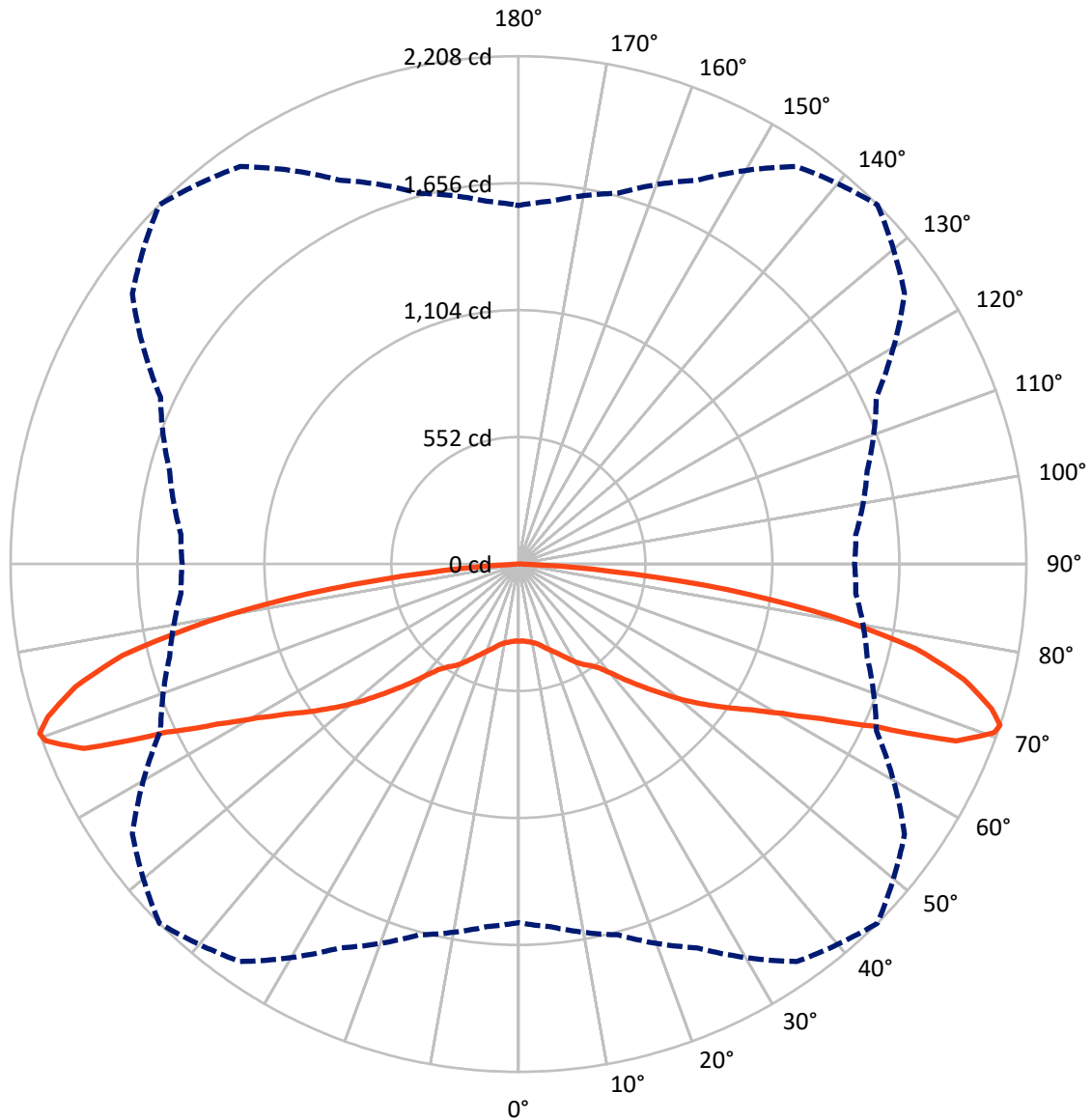
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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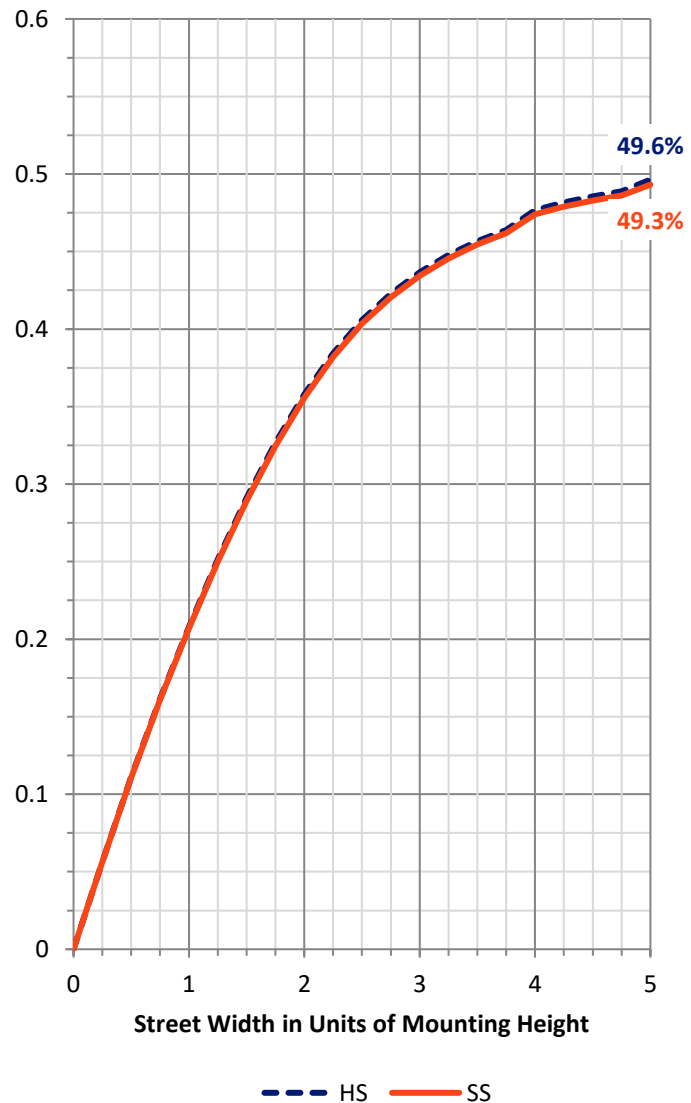
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2963.5	0.0	2963.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2963.5	0.0	2963.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5927.0	0.0	5927.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.6	0.6
10°-20°	104.8	1.8
20°-30°	202.0	3.4
30°-40°	341.6	5.8
40°-50°	621.2	10.5
50°-60°	1059.6	17.9
60°-70°	1699.0	28.7
70°-80°	1544.9	26.1
80°-90°	321.4	5.4
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°	5927.0	100.0
0°-180°	5927.0	100.0



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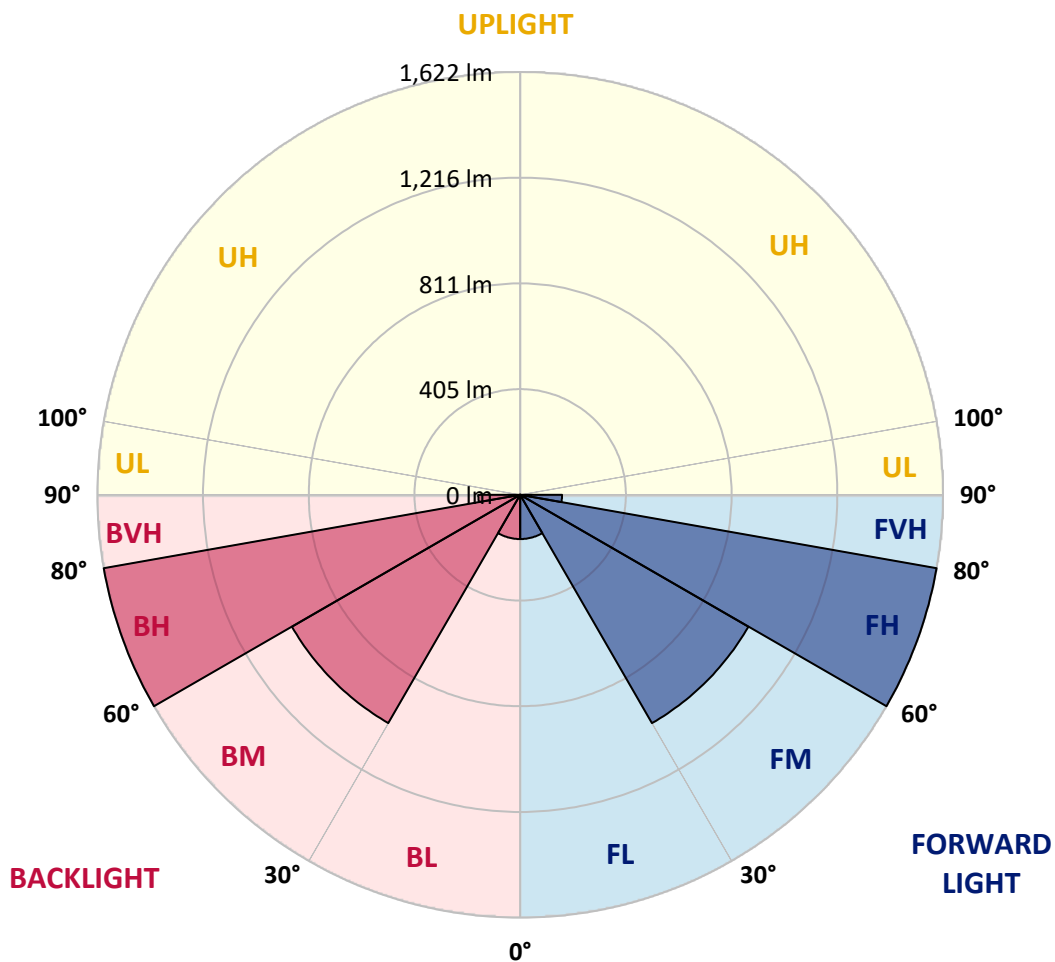
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.7	2.9			
FM (30°-60°)	1011.2	17.1			
FH (60°-80°)	1621.9	27.4			G1/1800
FVH (80°-90°)	160.7	2.7			G2/225
BL (0°-30°)	169.7	2.9	B1/500		
BM (30°-60°)	1011.2	17.1	B2/2500		
BH (60°-80°)	1621.9	27.4	B3/2500		G1/1800
BVH (80°-90°)	160.7	2.7			G2/225
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°	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8
2.5°	339.0	339.0	338.4	335.8	336.3	334.7	333.7	334.2	334.7	334.7	334.2
5°	341.6	341.6	341.1	339.0	339.5	337.9	337.4	337.9	339.0	340.0	339.0
7.5°	346.9	346.4	345.3	343.2	343.2	342.1	341.1	341.6	342.7	343.2	342.7
10°	352.7	352.2	350.6	348.5	348.5	347.4	345.3	345.3	345.3	344.8	344.3
12.5°	359.0	358.5	356.9	354.8	356.4	354.8	353.2	352.7	351.1	350.1	349.5
15°	369.1	368.5	367.0	365.4	369.6	367.5	364.8	362.2	361.1	360.1	359.0
17.5°	381.2	380.7	379.6	378.6	383.9	383.9	379.1	374.3	374.9	373.3	372.2
20°	395.5	394.9	393.9	394.9	400.7	400.2	393.9	388.1	390.2	387.0	386.0
22.5°	413.4	412.4	410.8	412.4	420.8	419.2	411.3	406.0	407.6	406.0	405.0
25°	433.0	430.8	428.7	430.8	444.6	441.4	433.5	427.1	430.3	429.3	428.7
27.5°	452.0	449.9	448.3	446.7	467.8	467.3	456.7	450.4	454.1	454.6	455.1
30°	470.4	469.9	467.3	465.2	487.9	495.3	477.3	474.7	477.3	480.5	481.5
32.5°	495.3	494.2	491.6	487.9	503.2	521.1	501.1	503.2	507.4	513.7	513.2
35°	528.5	525.9	522.2	518.5	528.0	542.2	533.3	537.5	544.9	552.3	551.2
37.5°	563.9	563.4	559.7	550.7	561.3	573.9	571.3	579.2	591.9	606.7	604.6
40°	614.6	615.1	607.2	595.6	604.6	625.1	627.8	644.2	666.3	687.4	688.0
42.5°	694.3	692.7	686.9	670.6	676.4	691.7	704.3	729.7	757.1	778.8	782.0
45°	793.0	790.9	779.3	753.4	751.9	763.0	781.4	814.2	847.4	868.6	870.1
47.5°	906.0	898.6	880.7	846.9	834.8	840.0	859.0	895.5	929.8	953.0	951.4
50°	1017.4	1018.0	996.3	952.0	927.7	927.7	938.8	976.8	1011.6	1033.3	1033.8
52.5°	1143.1	1138.4	1117.2	1063.9	1024.3	1013.2	1016.9	1052.8	1088.7	1112.0	1112.0
55°	1269.8	1265.1	1244.5	1185.3	1134.1	1101.9	1098.2	1132.0	1171.1	1193.3	1195.9
57.5°	1400.2	1397.1	1375.4	1311.0	1247.1	1195.9	1187.5	1226.0	1267.2	1289.4	1290.9
60°	1535.9	1531.7	1510.1	1459.9	1381.8	1317.3	1301.5	1340.6	1389.7	1418.7	1417.1
62.5°	1693.8	1688.5	1671.6	1607.2	1551.8	1482.1	1450.9	1495.8	1554.4	1588.2	1590.8
65°	1820.5	1822.6	1838.5	1829.0	1777.2	1701.2	1670.0	1741.9	1775.6	1781.5	1777.2
67.5°	1787.3	1795.2	1830.0	1908.7	2002.2	2052.3	1929.8	1843.8	1779.3	1741.9	1736.6
70°	1643.6	1649.5	1732.9	1861.7	2109.3	2194.9	2040.2	1759.8	1624.6	1566.6	1559.7
71°	1559.2	1582.9	1669.0	1841.6	2109.9	2208.1	2049.1	1717.0	1570.3	1472.6	1462.0
72.5°	1430.3	1450.9	1559.2	1766.1	2079.2	2151.0	1954.1	1616.7	1446.7	1365.4	1338.5
75°	1166.3	1204.4	1299.9	1572.4	1939.3	1999.5	1784.1	1426.1	1244.0	1155.8	1148.9
77.5°	829.5	855.4	1000.0	1294.1	1709.6	1766.1	1577.1	1199.1	1006.4	924.5	915.5
80°	460.9	486.8	639.4	909.7	1320.0	1377.0	1207.0	875.9	683.8	596.6	560.7
82.5°	206.4	221.8	334.2	539.1	846.9	920.8	733.4	481.5	329.5	233.4	214.4
85°	71.8	79.7	133.1	244.5	433.5	400.2	251.3	120.4	42.2	20.6	19.0
87.5°	13.7	15.3	29.0	68.1	70.8	32.7	10.6	7.9	7.9	8.4	8.4
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)