

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: P233638

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233638
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE V OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6090 lumens
Efficiency: N/A
Efficacy: 121.8 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

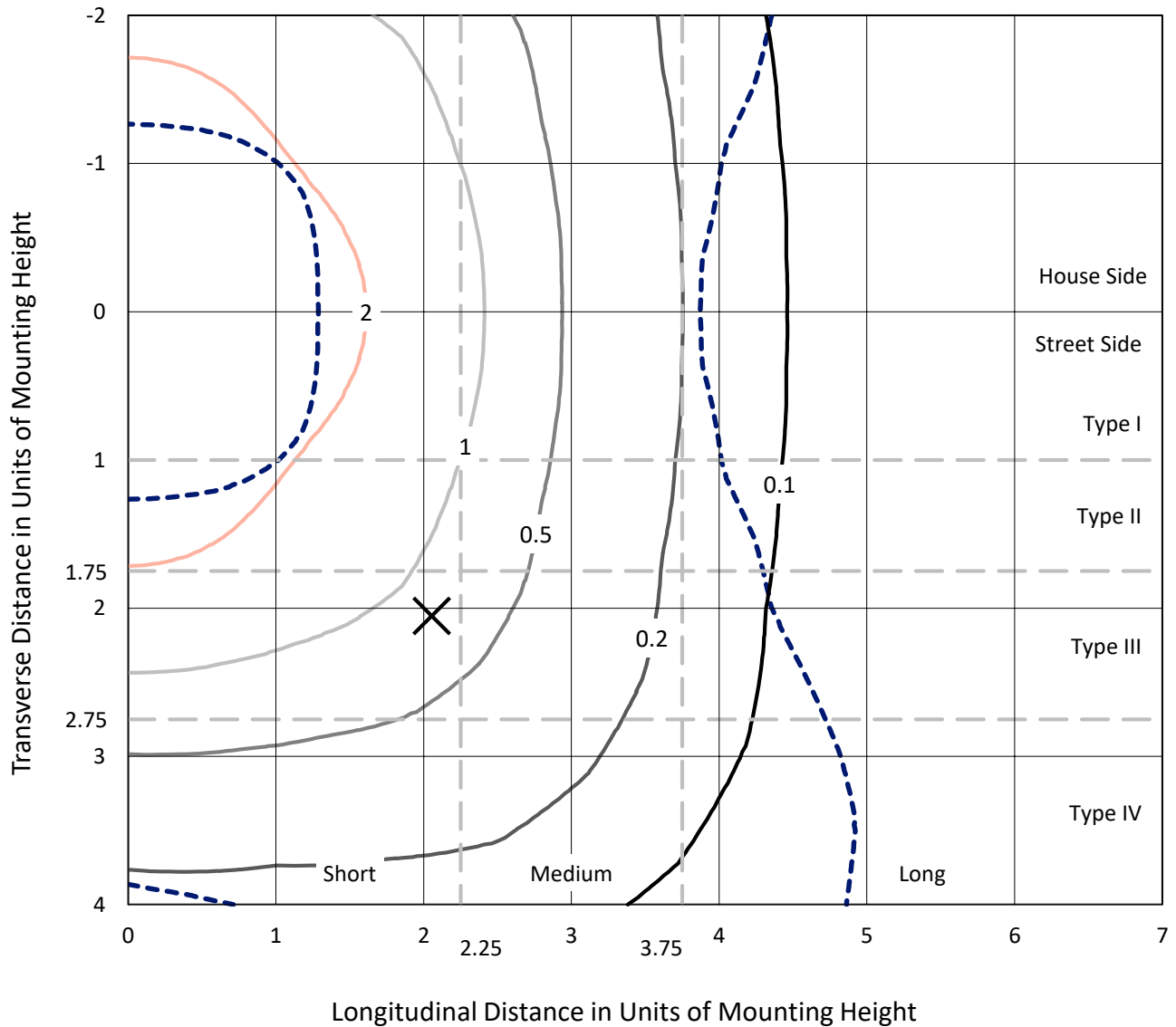
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

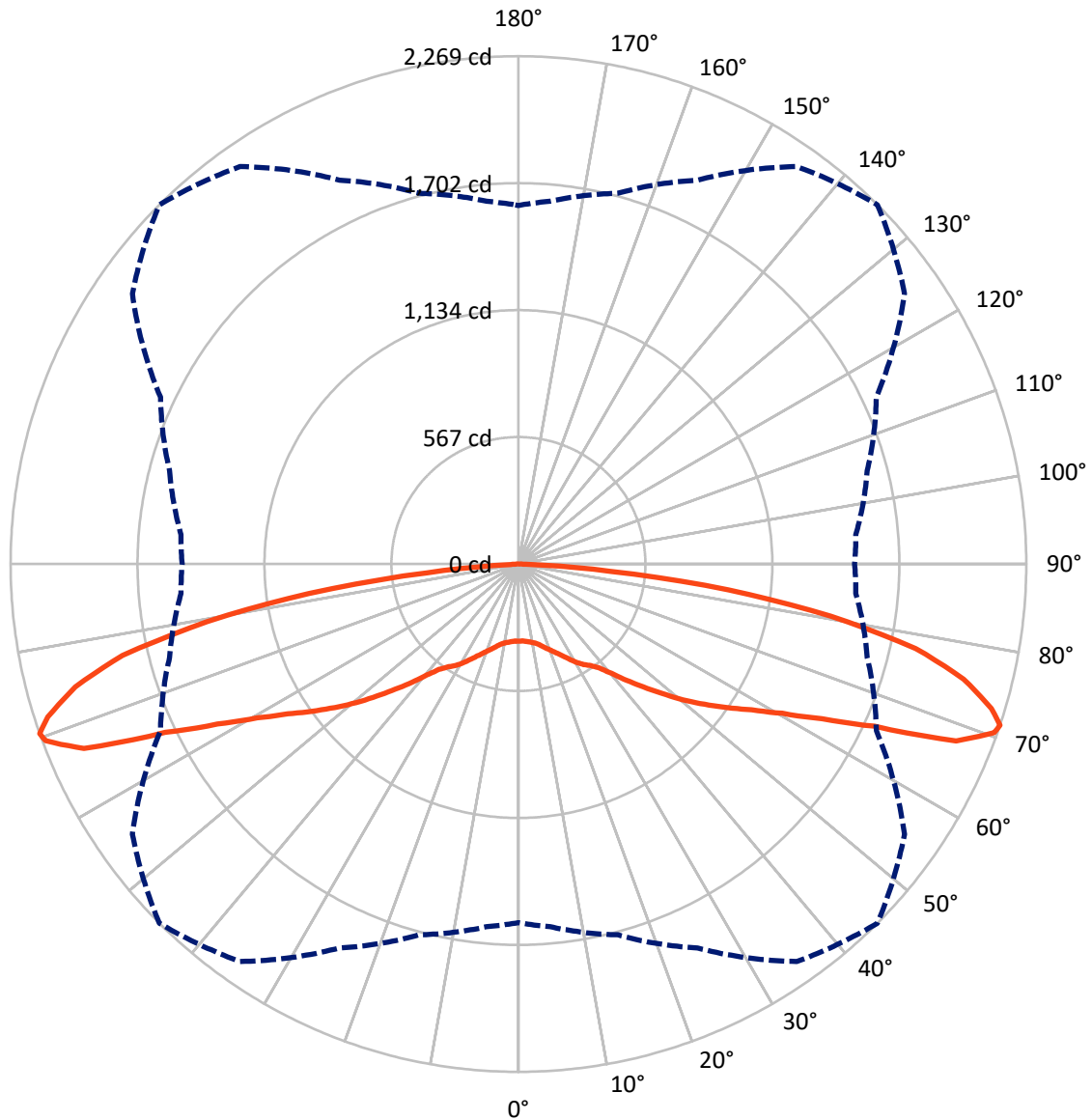


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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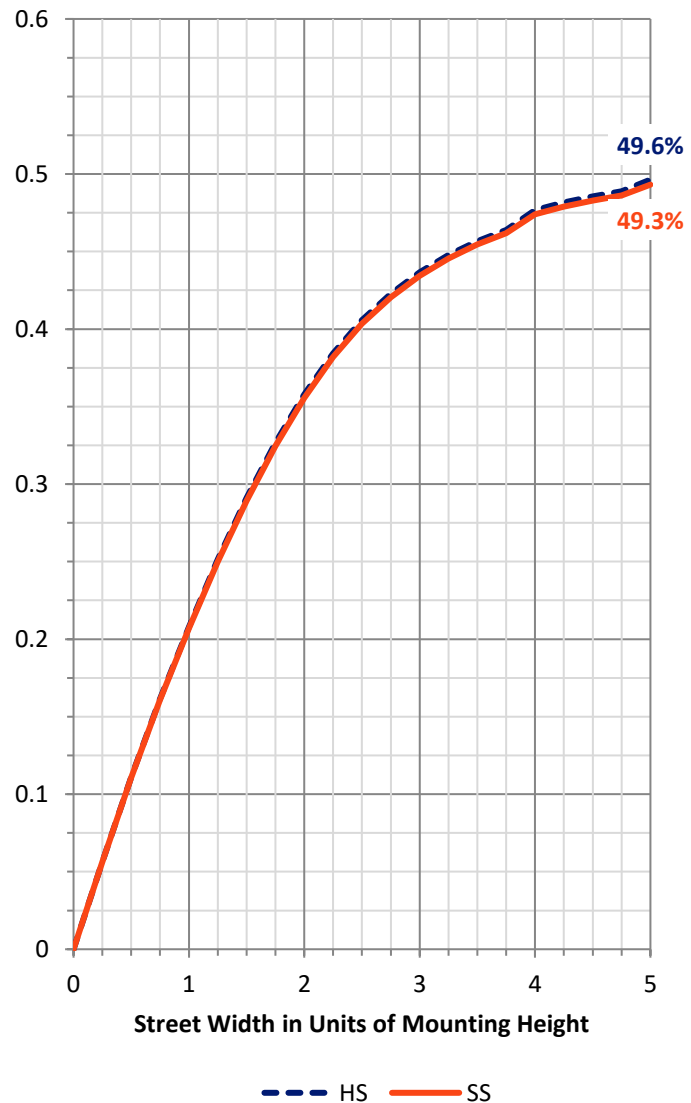
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.0	0.0	3045.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3045.0	0.0	3045.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6090.0	0.0	6090.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	0.6
10°-20°	107.6	1.8
20°-30°	207.5	3.4
30°-40°	351.0	5.8
40°-50°	638.3	10.5
50°-60°	1088.7	17.9
60°-70°	1745.8	28.7
70°-80°	1587.4	26.1
80°-90°	330.2	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°	6090.0	100.0
0°-180°	6090.0	100.0



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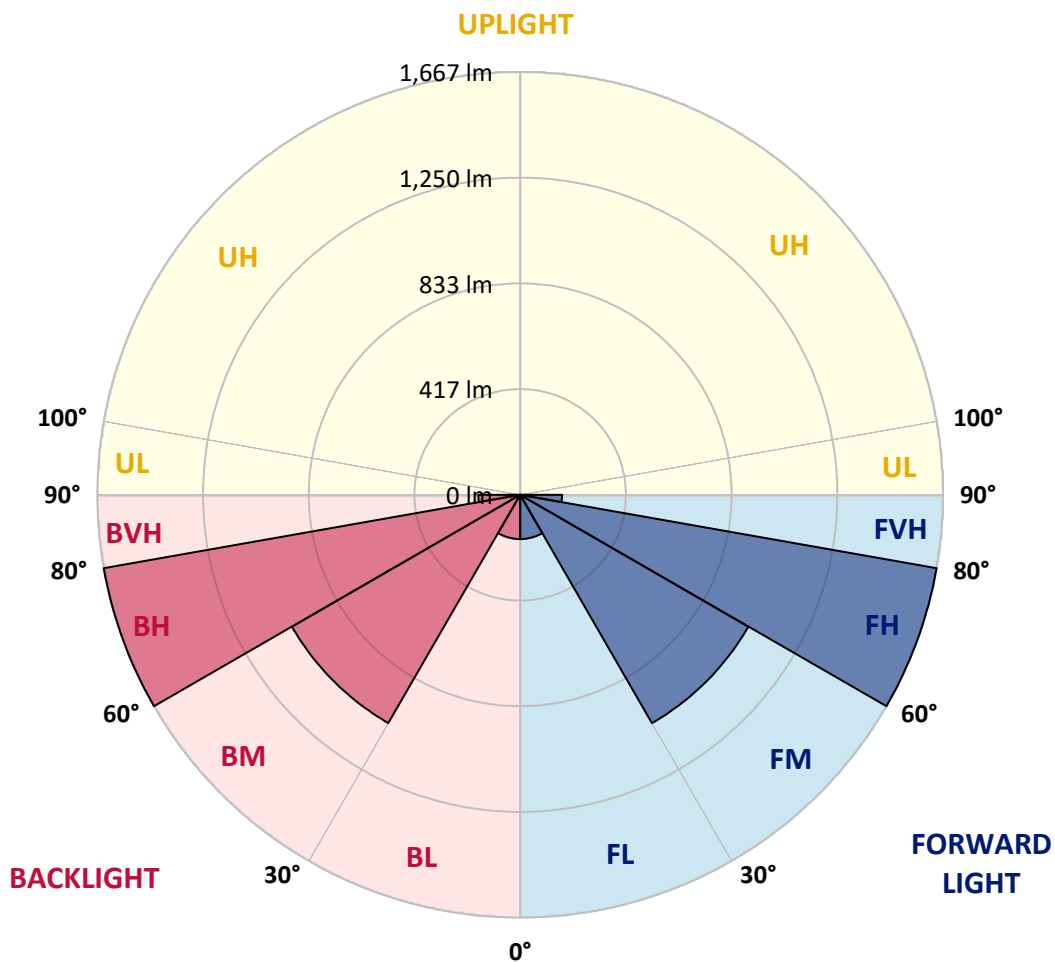
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.4	2.9			
FM (30°-60°)	1039.0	17.1			
FH (60°-80°)	1666.6	27.4			G1/1800
FVH (80°-90°)	165.1	2.7			G2/225
BL (0°-30°)	174.4	2.9	B1/500		
BM (30°-60°)	1039.0	17.1	B2/2500		
BH (60°-80°)	1666.6	27.4	B3/2500		G1/1800
BVH (80°-90°)	165.1	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°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	348.3	348.3	347.8	345.0	345.6	344.0	342.9	343.4	344.0	344.0	343.4
5°	351.0	351.0	350.5	348.3	348.8	347.2	346.7	347.2	348.3	349.4	348.3
7.5°	356.4	355.9	354.8	352.6	352.6	351.5	350.5	351.0	352.1	352.6	352.1
10°	362.4	361.9	360.2	358.1	358.1	357.0	354.8	354.8	354.8	354.3	353.7
12.5°	368.9	368.4	366.7	364.6	366.2	364.6	362.9	362.4	360.8	359.7	359.1
15°	379.2	378.7	377.0	375.4	379.8	377.6	374.9	372.2	371.1	370.0	368.9
17.5°	391.7	391.2	390.1	389.0	394.4	394.4	389.5	384.6	385.2	383.6	382.5
20°	406.3	405.8	404.7	405.8	411.8	411.2	404.7	398.7	400.9	397.7	396.6
22.5°	424.8	423.7	422.1	423.7	432.4	430.8	422.6	417.2	418.8	417.2	416.1
25°	444.9	442.7	440.5	442.7	456.8	453.5	445.4	438.9	442.1	441.1	440.5
27.5°	464.4	462.2	460.6	459.0	480.7	480.1	469.3	462.8	466.6	467.1	467.6
30°	483.4	482.8	480.1	478.0	501.3	508.9	490.4	487.7	490.4	493.7	494.8
32.5°	508.9	507.8	505.1	501.3	517.0	535.5	514.8	517.0	521.4	527.9	527.3
35°	543.1	540.3	536.5	532.7	542.5	557.2	547.9	552.3	559.9	567.5	566.4
37.5°	579.4	578.9	575.1	565.8	576.7	589.7	587.0	595.1	608.2	623.3	621.2
40°	631.5	632.0	623.9	612.0	621.2	642.3	645.0	661.9	684.7	706.4	706.9
42.5°	713.4	711.8	705.8	689.0	695.0	710.7	723.7	749.8	778.0	800.2	803.5
45°	814.9	812.7	800.8	774.2	772.5	783.9	802.9	836.6	870.7	892.4	894.1
47.5°	931.0	923.4	904.9	870.2	857.7	863.1	882.7	920.1	955.4	979.2	977.6
50°	1045.4	1046.0	1023.7	978.2	953.2	953.2	964.6	1003.7	1039.5	1061.7	1062.2
52.5°	1174.5	1169.7	1148.0	1093.2	1052.5	1041.1	1044.9	1081.8	1118.7	1142.5	1142.5
55°	1304.7	1299.9	1278.7	1217.9	1165.3	1132.2	1128.4	1163.2	1203.3	1226.1	1228.8
57.5°	1438.7	1435.5	1413.3	1347.1	1281.4	1228.8	1220.1	1259.7	1302.0	1324.8	1326.4
60°	1578.2	1573.8	1551.6	1500.1	1419.8	1353.6	1337.3	1377.4	1427.9	1457.7	1456.1
62.5°	1740.4	1735.0	1717.6	1651.4	1594.5	1522.8	1490.8	1536.9	1597.2	1631.9	1634.6
65°	1870.6	1872.8	1889.0	1879.3	1826.1	1748.0	1716.0	1789.8	1824.5	1830.4	1826.1
67.5°	1836.4	1844.5	1880.4	1961.2	2057.2	2108.8	1982.9	1894.5	1828.3	1789.8	1784.3
70°	1688.8	1694.8	1780.5	1912.9	2167.3	2255.2	2096.3	1808.2	1669.3	1609.6	1602.6
71°	1602.0	1626.5	1714.9	1892.3	2167.9	2268.8	2105.5	1764.3	1613.4	1513.1	1502.2
72.5°	1469.7	1490.8	1602.0	1814.7	2136.4	2210.2	2007.8	1661.2	1486.5	1402.9	1375.3
75°	1198.4	1237.5	1335.7	1615.6	1992.7	2054.5	1833.2	1465.3	1278.2	1187.6	1180.5
77.5°	852.3	878.9	1027.5	1329.7	1756.7	1814.7	1620.5	1232.1	1034.0	949.9	940.7
80°	473.6	500.2	657.0	934.8	1356.3	1414.9	1240.2	900.0	702.6	613.0	576.2
82.5°	212.1	227.9	343.4	553.9	870.2	946.1	753.6	494.8	338.5	239.8	220.3
85°	73.8	81.9	136.7	251.2	445.4	411.2	258.2	123.7	43.4	21.2	19.5
87.5°	14.1	15.7	29.8	70.0	72.7	33.6	10.9	8.1	8.1	8.7	8.7
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)