

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: P233421

Luminaire Tested: **VRDN-C028-D-UNV-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: VRDN-C028-D-UNV-T1-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9555 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

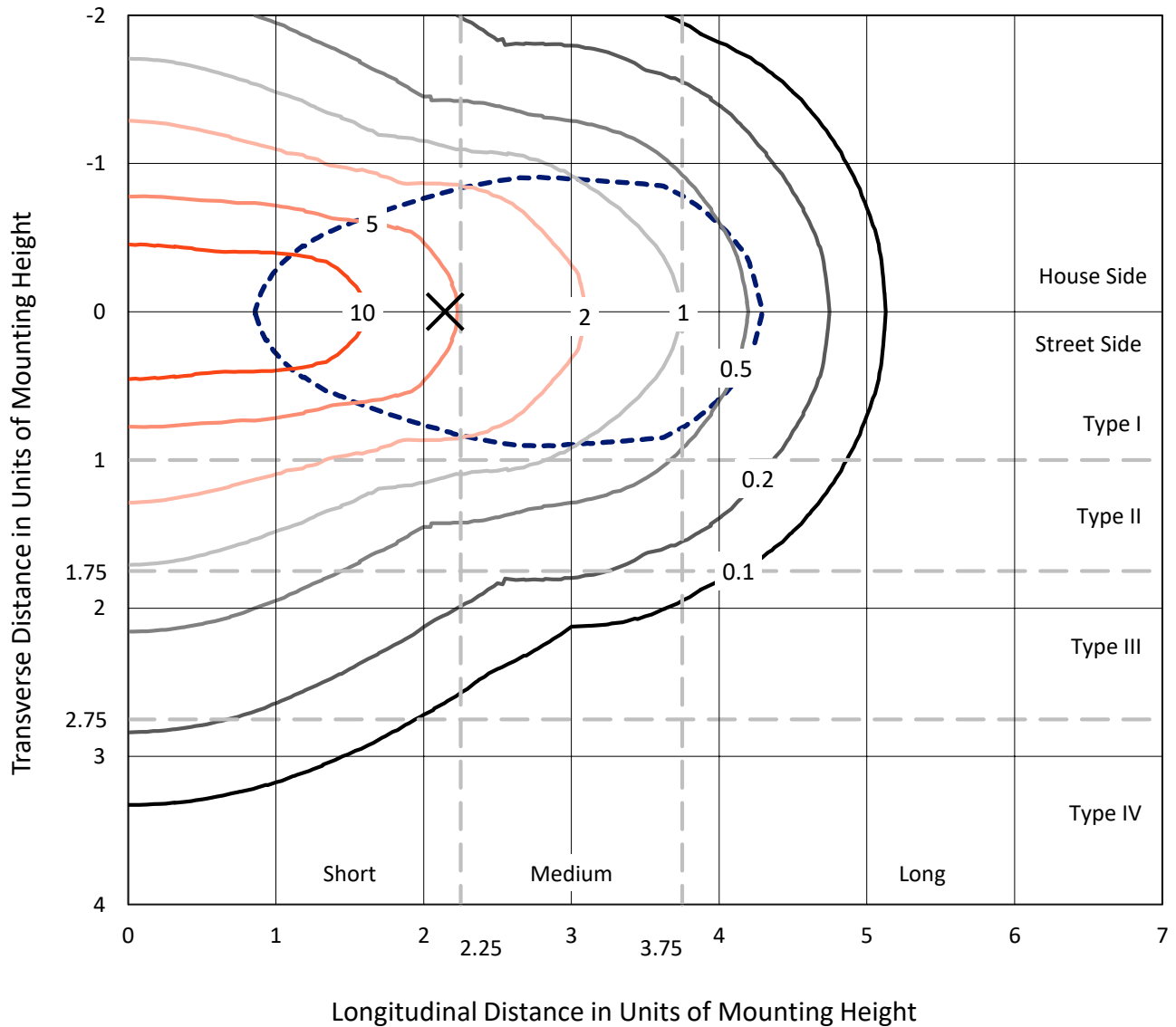
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

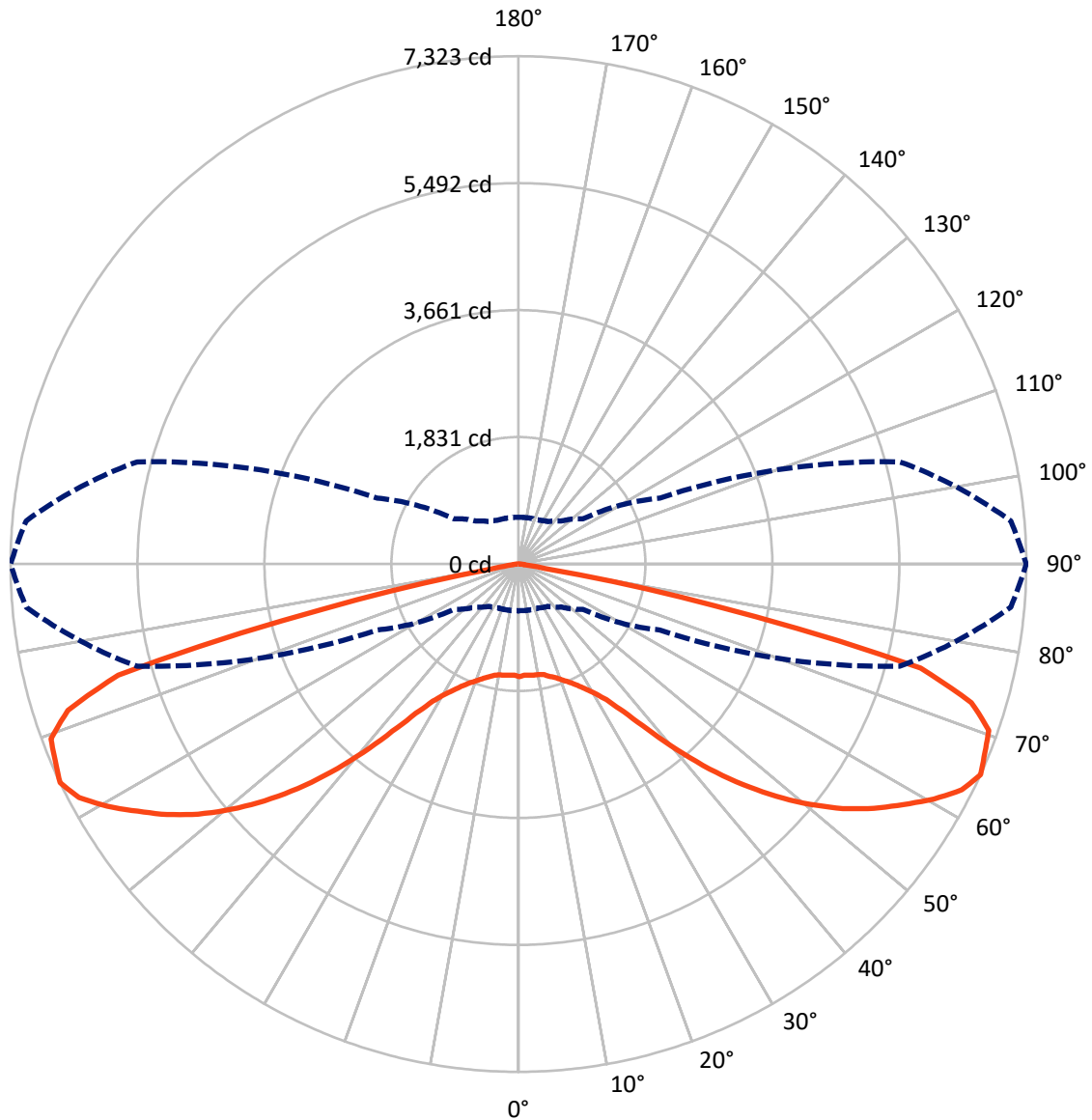
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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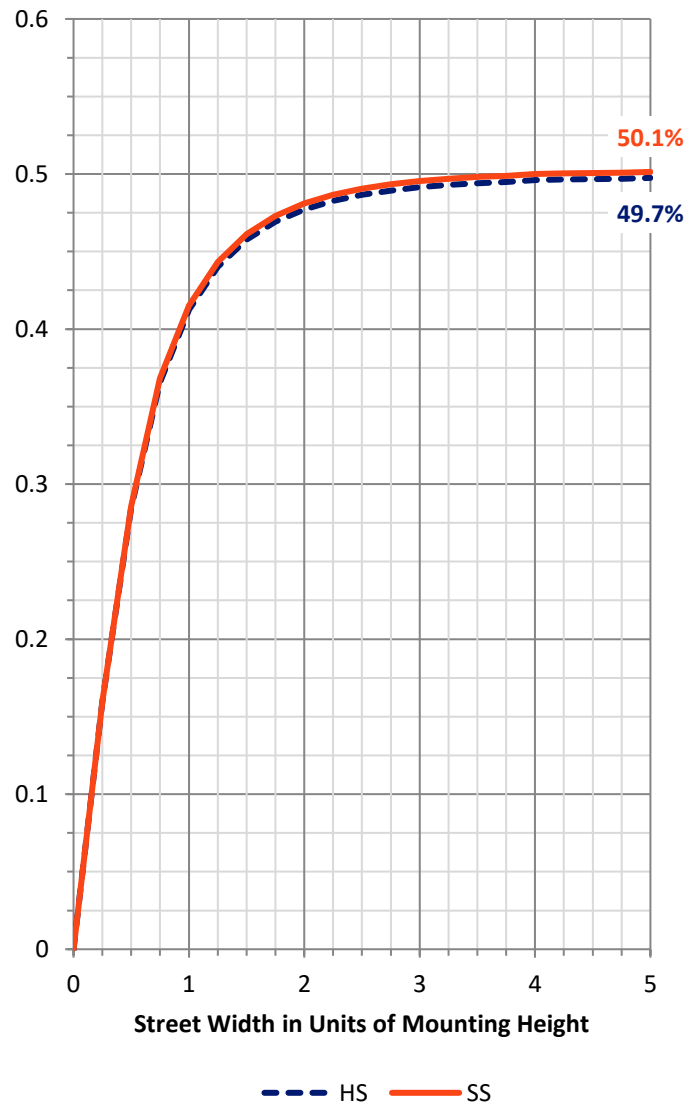
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4777.5	0.0	4777.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4777.5	0.0	4777.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9555.0	0.0	9555.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.6
10°-20°	455.0	4.8
20°-30°	746.1	7.8
30°-40°	1078.8	11.3
40°-50°	1579.7	16.5
50°-60°	2049.3	21.4
60°-70°	2167.3	22.7
70°-80°	1272.3	13.3
80°-90°	52.4	0.5
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°	9555.0	100.0
0°-180°	9555.0	100.0



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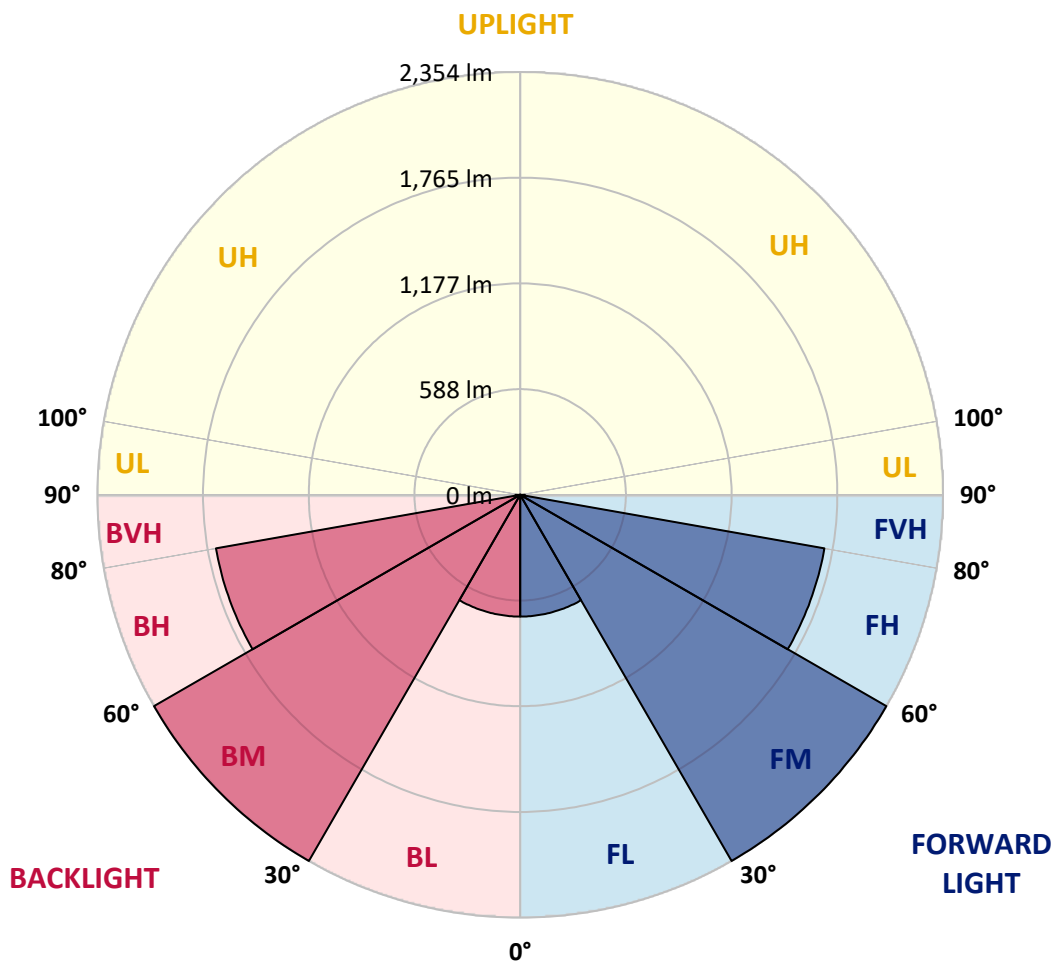
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.6	7.1			
FM	(30°-60°)	2353.9	24.6			
FH	(60°-80°)	1719.8	18.0			G1/1800
FVH	(80°-90°)	26.2	0.3			G1/100
BL	(0°-30°)	677.6	7.1	B2/1000		
BM	(30°-60°)	2353.9	24.6	B2/2500		
BH	(60°-80°)	1719.8	18.0	B3/2500		G3/2500
BVH	(80°-90°)	26.2	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1626.3	1626.3	1626.3	1626.3	1626.3	1626.3	1626.3	1626.3	1626.3	1626.3	1626.3
2.5°	1642.0	1640.4	1631.3	1618.1	1614.0	1617.3	1616.4	1612.3	1612.3	1614.0	1603.2
5°	1632.1	1629.6	1618.9	1615.6	1616.4	1620.6	1619.7	1616.4	1618.1	1616.4	1608.2
7.5°	1614.8	1612.3	1605.7	1604.1	1602.4	1609.0	1615.6	1619.7	1624.7	1622.2	1616.4
10°	1598.3	1593.4	1594.2	1585.9	1589.2	1601.6	1608.2	1615.6	1623.0	1622.2	1620.6
12.5°	1573.6	1568.6	1571.1	1568.6	1580.2	1595.0	1614.8	1628.8	1637.1	1634.6	1637.1
15°	1543.0	1541.4	1545.5	1548.8	1569.4	1603.2	1624.7	1655.2	1673.3	1674.2	1679.9
17.5°	1508.4	1505.1	1512.5	1524.9	1562.8	1599.9	1653.6	1687.4	1713.8	1717.9	1722.8
20°	1449.8	1451.5	1463.0	1484.5	1538.1	1604.9	1670.9	1722.0	1759.9	1769.8	1780.6
22.5°	1376.4	1380.6	1402.0	1446.6	1515.8	1599.1	1689.8	1762.4	1816.8	1839.1	1845.7
25°	1299.8	1306.3	1341.0	1400.4	1490.3	1596.6	1713.8	1809.4	1886.9	1922.4	1926.5
27.5°	1231.3	1237.1	1281.6	1357.5	1466.3	1597.5	1735.2	1866.3	1971.1	2023.0	2031.3
30°	1162.0	1168.6	1214.8	1308.8	1442.4	1595.8	1759.9	1930.7	2071.7	2145.9	2158.3
32.5°	1102.6	1109.2	1157.1	1255.2	1412.7	1593.4	1789.6	2009.0	2192.9	2313.3	2329.8
35°	1052.3	1059.8	1108.4	1204.9	1374.8	1594.2	1832.5	2116.2	2381.0	2579.7	2611.9
37.5°	1010.3	1017.7	1060.6	1157.9	1336.0	1587.6	1884.5	2251.5	2630.0	2959.1	3018.5
40°	983.9	990.5	1022.6	1109.2	1289.0	1572.7	1944.7	2401.6	2934.3	3414.3	3518.2
42.5°	956.7	964.1	990.5	1064.7	1238.7	1550.5	1997.5	2552.5	3251.9	3891.8	4040.3
45°	927.0	931.9	960.8	1027.6	1189.2	1515.8	2043.6	2696.8	3585.0	4376.8	4537.6
47.5°	902.2	904.7	928.6	990.5	1137.3	1464.7	2056.0	2820.5	3921.5	4848.5	5006.0
50°	885.7	881.6	903.9	957.5	1088.6	1393.8	2034.6	2912.9	4283.6	5298.8	5448.1
52.5°	860.2	859.4	876.7	925.3	1042.4	1312.1	1957.9	2957.4	4645.6	5720.2	5858.8
55°	836.3	836.3	850.3	888.2	993.8	1228.0	1826.7	2939.3	4992.8	6119.4	6220.8
57.5°	801.6	800.8	812.3	847.0	936.9	1148.8	1661.0	2855.2	5274.9	6488.9	6544.1
60°	767.8	767.0	773.6	800.0	882.4	1063.9	1483.7	2690.2	5554.5	6815.4	6881.4
62.5°	724.9	724.1	730.7	753.8	821.4	973.2	1309.6	2489.0	5718.6	7003.5	7174.2
65°	673.8	674.6	682.9	697.7	745.5	875.8	1137.3	2249.0	5691.4	7125.5	7322.6
67.5°	625.1	622.7	629.3	631.7	667.2	773.6	976.5	2058.5	5483.5	7147.0	7254.2
70°	564.9	561.6	561.6	551.7	576.5	654.0	825.5	1858.9	4893.0	6951.5	7195.6
72.5°	472.6	472.6	467.6	456.9	472.6	530.3	687.8	1636.2	3964.4	6527.6	6830.3
75°	294.4	296.9	307.6	340.6	363.7	400.0	545.1	1378.9	3238.7	5430.8	5989.1
77.5°	150.9	154.2	158.3	159.2	164.9	172.4	259.8	771.9	1646.1	2705.9	2886.5
80°	37.9	38.8	93.2	103.9	111.3	114.6	95.7	257.3	426.4	399.2	390.1
82.5°	25.6	27.2	53.6	66.0	61.0	46.2	52.8	78.3	63.5	86.6	97.3
85°	14.0	14.0	23.9	25.6	26.4	29.7	26.4	25.6	28.9	55.3	64.3
87.5°	6.6	6.6	9.9	12.4	12.4	14.8	12.4	13.2	13.2	25.6	29.7
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)