

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: P233423

Luminaire Tested: **VRDN-C02-D-UNV-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233423
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-C02-D-UNV-T1-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1140mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11275 lumens
Efficiency: N/A
Efficacy: 125.3 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

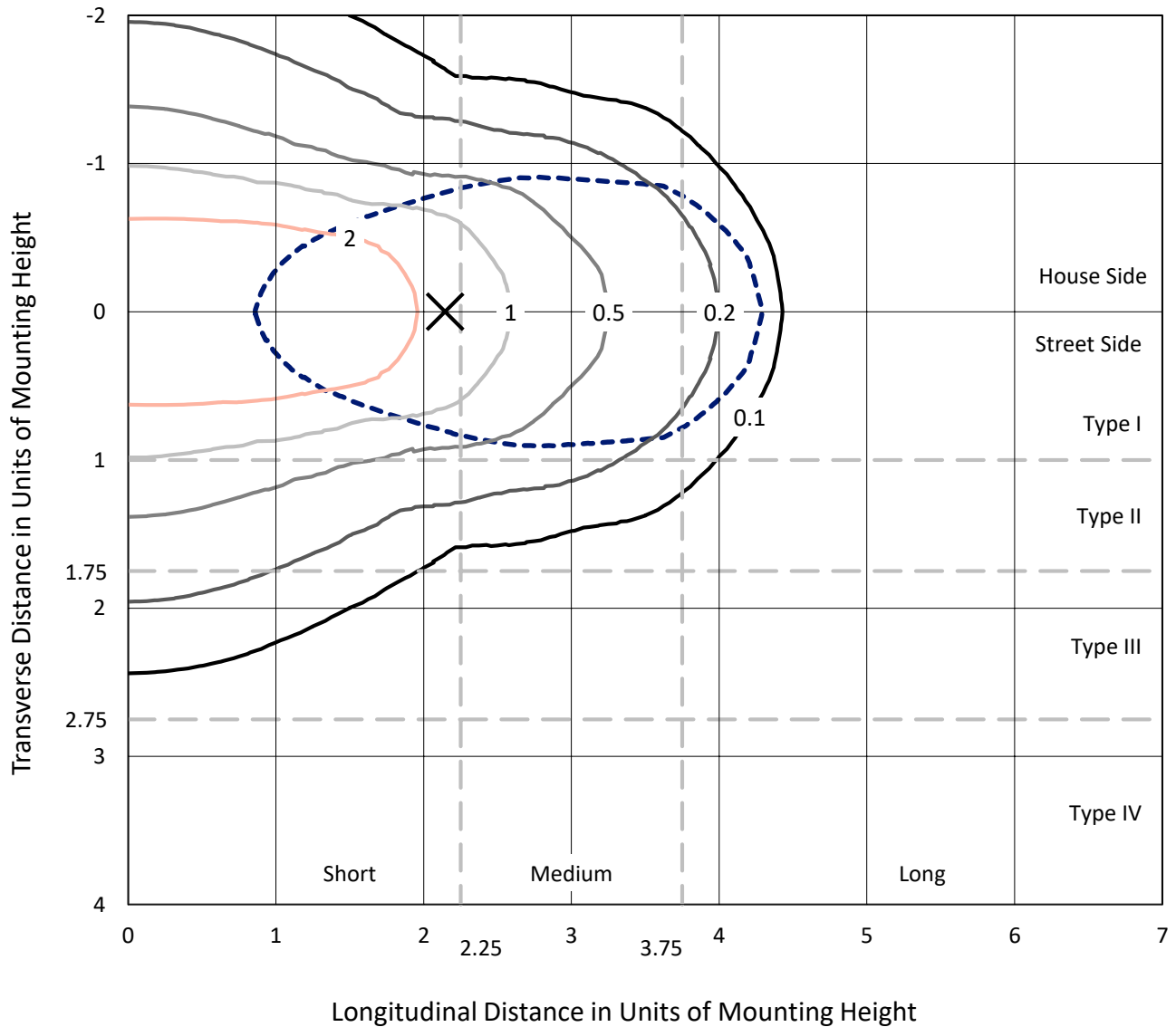
Input Watts (W): 90
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

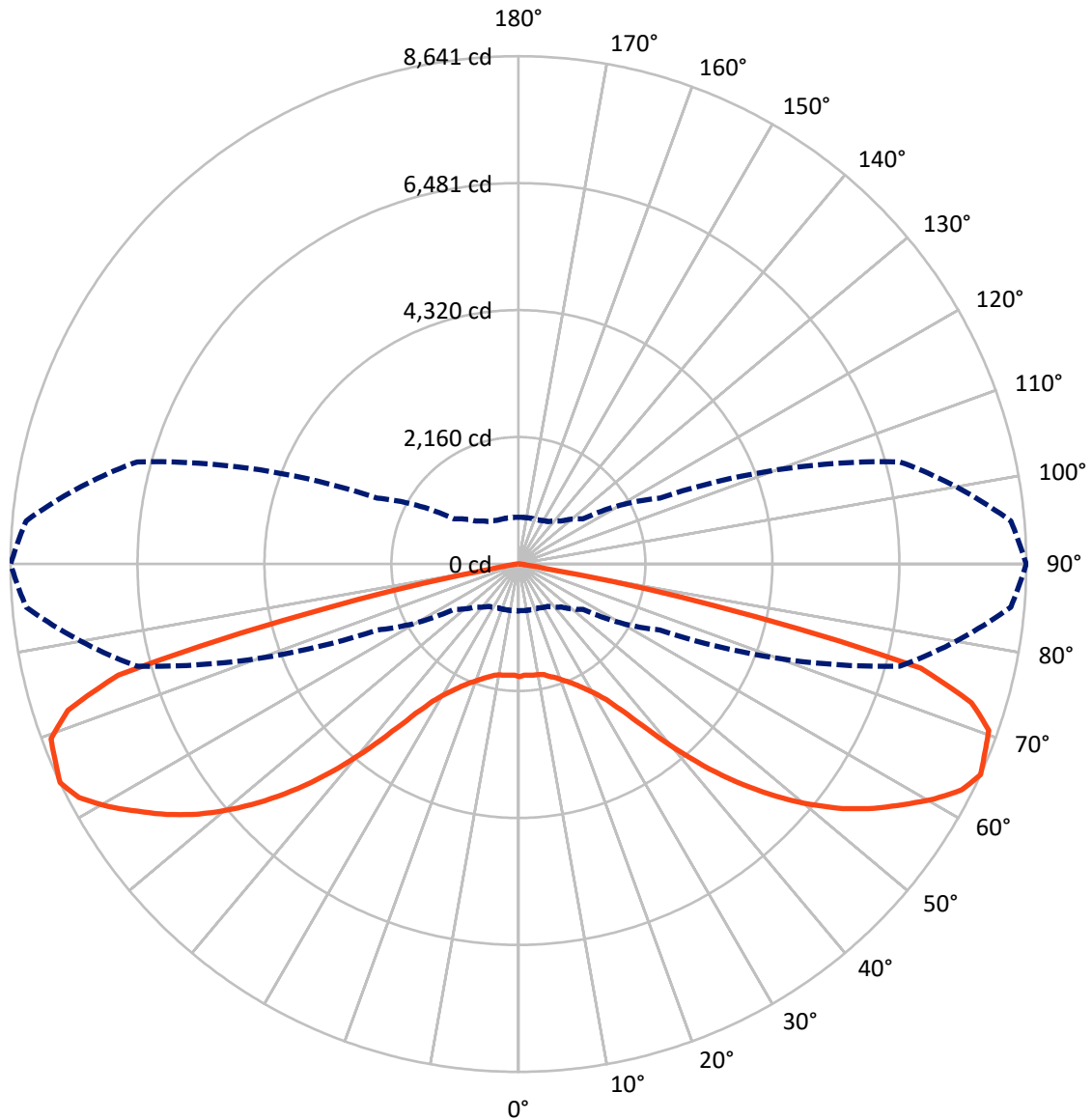
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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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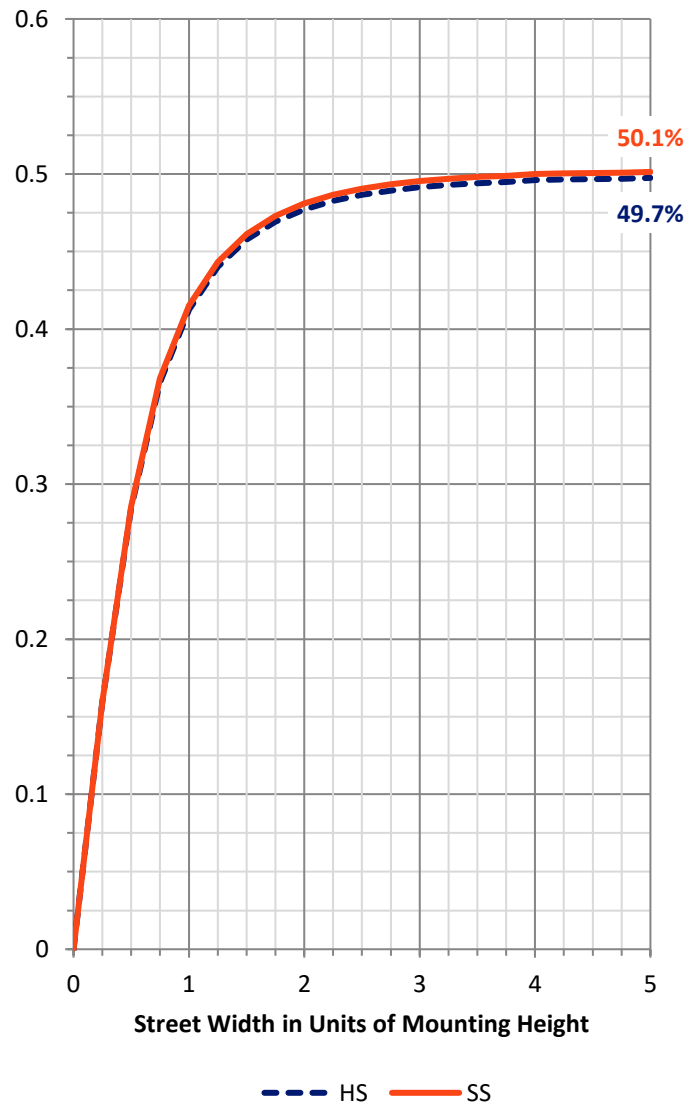
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5637.5	0.0	5637.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5637.5	0.0	5637.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11275.0	0.0	11275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.6
10°-20°	536.9	4.8
20°-30°	880.4	7.8
30°-40°	1273.0	11.3
40°-50°	1864.1	16.5
50°-60°	2418.2	21.4
60°-70°	2557.4	22.7
70°-80°	1501.3	13.3
80°-90°	61.8	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°	11275.0	100.0
0°-180°	11275.0	100.0



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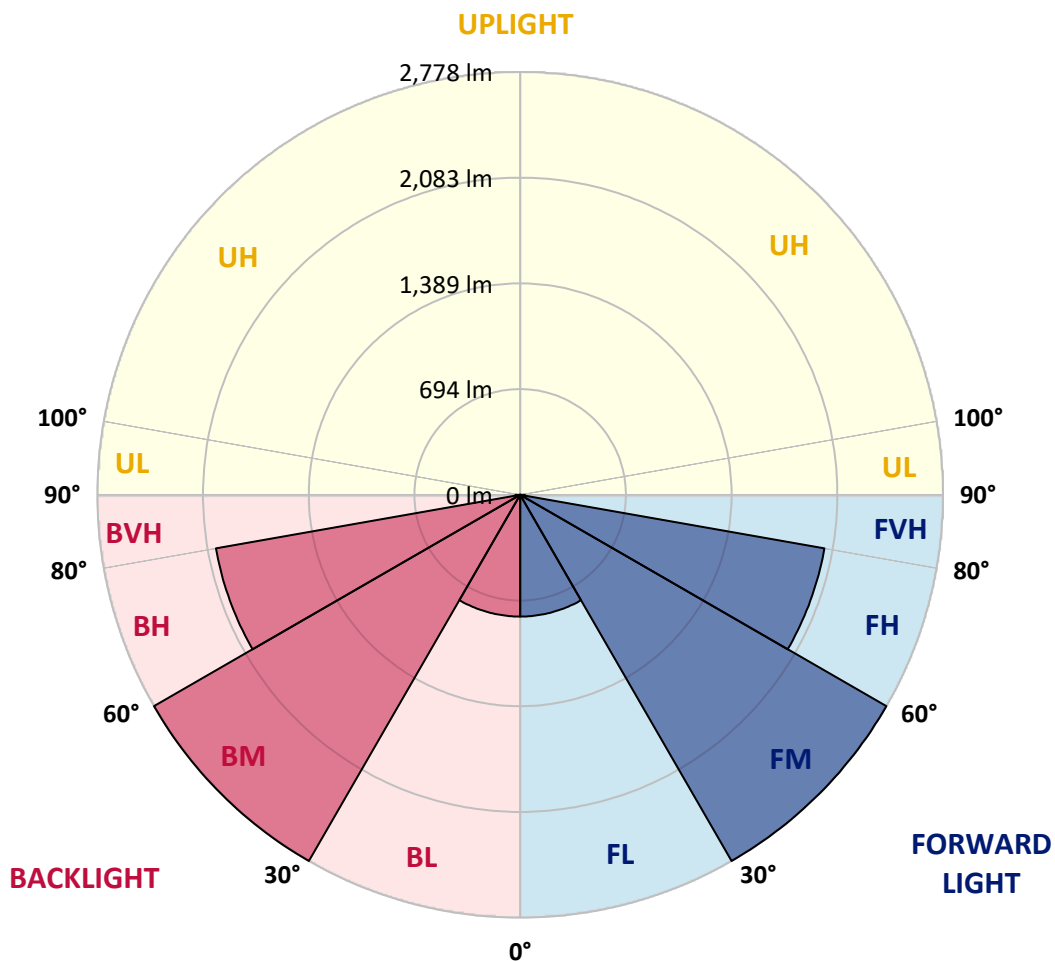
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.5	7.1			
FM	(30°-60°)	2777.7	24.6			
FH	(60°-80°)	2029.4	18.0			G2/5000
FVH	(80°-90°)	30.9	0.3			G1/100
BL	(0°-30°)	799.5	7.1	B2/1000		
BM	(30°-60°)	2777.7	24.6	B3/5000		
BH	(60°-80°)	2029.4	18.0	B3/2500		G3/2500
BVH	(80°-90°)	30.9	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°	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1
2.5°	1937.6	1935.6	1924.9	1909.4	1904.5	1908.4	1907.4	1902.6	1902.6	1904.5	1891.8
5°	1925.9	1923.0	1910.3	1906.4	1907.4	1912.3	1911.3	1907.4	1909.4	1907.4	1897.7
7.5°	1905.5	1902.6	1894.8	1892.8	1890.9	1898.7	1906.4	1911.3	1917.2	1914.2	1907.4
10°	1886.0	1880.2	1881.1	1871.4	1875.3	1889.9	1897.7	1906.4	1915.2	1914.2	1912.3
12.5°	1856.8	1851.0	1853.9	1851.0	1864.6	1882.1	1905.5	1922.0	1931.7	1928.8	1931.7
15°	1820.8	1818.9	1823.7	1827.6	1851.9	1891.8	1917.2	1953.2	1974.6	1975.5	1982.4
17.5°	1779.9	1776.0	1784.8	1799.4	1844.2	1888.0	1951.2	1991.1	2022.3	2027.1	2033.0
20°	1710.8	1712.8	1726.4	1751.7	1815.0	1893.8	1971.6	2032.0	2076.8	2088.4	2101.1
22.5°	1624.2	1629.1	1654.4	1706.9	1788.7	1887.0	1994.0	2079.7	2143.9	2170.2	2178.0
25°	1533.7	1541.5	1582.4	1652.4	1758.5	1884.1	2022.3	2135.1	2226.6	2268.5	2273.3
27.5°	1452.9	1459.8	1512.3	1601.8	1730.3	1885.0	2047.6	2202.3	2325.9	2387.2	2396.9
30°	1371.2	1379.0	1433.5	1544.4	1702.1	1883.1	2076.8	2278.2	2444.6	2532.2	2546.8
32.5°	1301.1	1308.9	1365.4	1481.2	1667.0	1880.2	2111.8	2370.6	2587.7	2729.7	2749.2
35°	1241.8	1250.5	1307.9	1421.8	1622.3	1881.1	2162.4	2497.2	2809.5	3044.1	3082.0
37.5°	1192.1	1200.9	1251.5	1366.3	1576.5	1873.4	2223.7	2656.8	3103.4	3491.7	3561.8
40°	1161.0	1168.8	1206.7	1308.9	1521.1	1855.8	2294.7	2833.9	3462.5	4028.9	4151.6
42.5°	1128.9	1137.6	1168.8	1256.4	1461.7	1829.6	2357.0	3012.0	3837.2	4592.4	4767.6
45°	1093.8	1099.7	1133.7	1212.6	1403.3	1788.7	2411.5	3182.3	4230.4	5164.6	5354.4
47.5°	1064.7	1067.6	1095.8	1168.8	1342.0	1728.4	2426.1	3328.3	4627.4	5721.3	5907.2
50°	1045.2	1040.3	1066.6	1129.9	1284.6	1644.7	2400.8	3437.2	5054.7	6252.6	6428.8
52.5°	1015.0	1014.0	1034.5	1091.9	1230.1	1548.3	2310.3	3489.8	5481.9	6749.9	6913.4
55°	986.8	986.8	1003.3	1048.1	1172.7	1449.1	2155.6	3468.4	5891.6	7220.9	7340.6
57.5°	945.9	945.0	958.6	999.4	1105.5	1355.6	1960.0	3369.1	6224.4	7656.9	7722.1
60°	906.0	905.1	912.8	944.0	1041.3	1255.4	1750.7	3174.5	6554.3	8042.3	8120.2
62.5°	855.4	854.4	862.2	889.5	969.3	1148.3	1545.4	2937.0	6748.0	8264.2	8465.6
65°	795.1	796.1	805.8	823.3	879.7	1033.5	1342.0	2653.8	6715.9	8408.2	8640.8
67.5°	737.7	734.7	742.5	745.5	787.3	912.8	1152.2	2429.0	6470.6	8433.5	8560.0
70°	666.6	662.7	662.7	651.1	680.2	771.7	974.1	2193.5	5773.8	8202.9	8490.9
72.5°	557.6	557.6	551.8	539.1	557.6	625.8	811.6	1930.8	4678.0	7702.7	8059.8
75°	347.4	350.3	363.0	401.9	429.2	472.0	643.3	1627.1	3821.6	6408.3	7067.2
77.5°	178.1	182.0	186.8	187.8	194.6	203.4	306.5	910.9	1942.5	3193.0	3406.1
80°	44.8	45.7	110.0	122.6	131.4	135.3	112.9	303.6	503.1	471.0	460.3
82.5°	30.2	32.1	63.3	77.9	72.0	54.5	62.3	92.5	74.9	102.2	114.8
85°	16.5	16.5	28.2	30.2	31.1	35.0	31.1	30.2	34.1	65.2	75.9
87.5°	7.8	7.8	11.7	14.6	14.6	17.5	14.6	15.6	15.6	30.2	35.0
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)