

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: P233624

Luminaire Tested: **VRDN-C016-D-UNV-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233624
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-C016-D-UNV-T5-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LED AND TYPE V OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830 lumens
Efficiency: N/A
Efficacy: 123.8 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

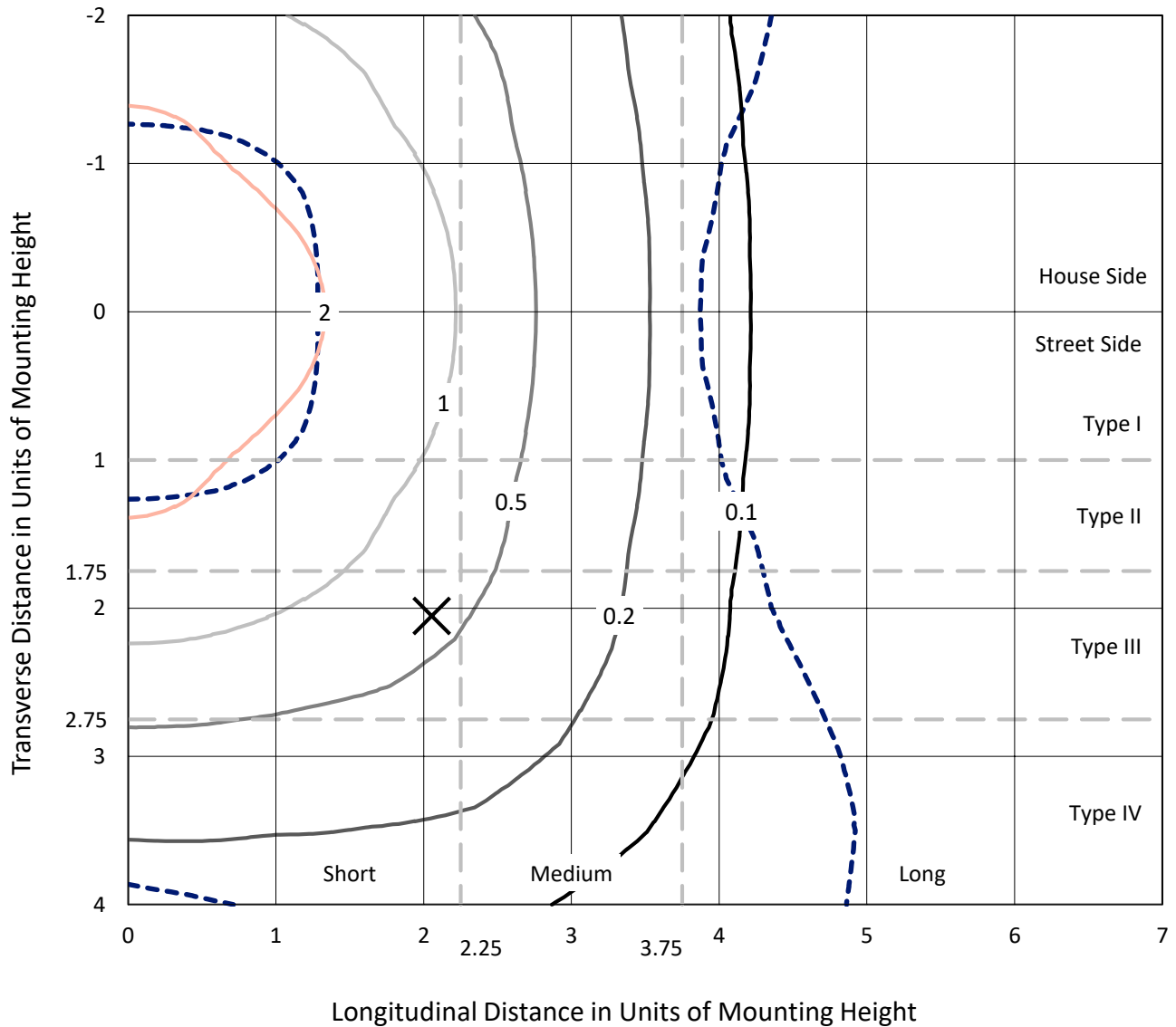
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

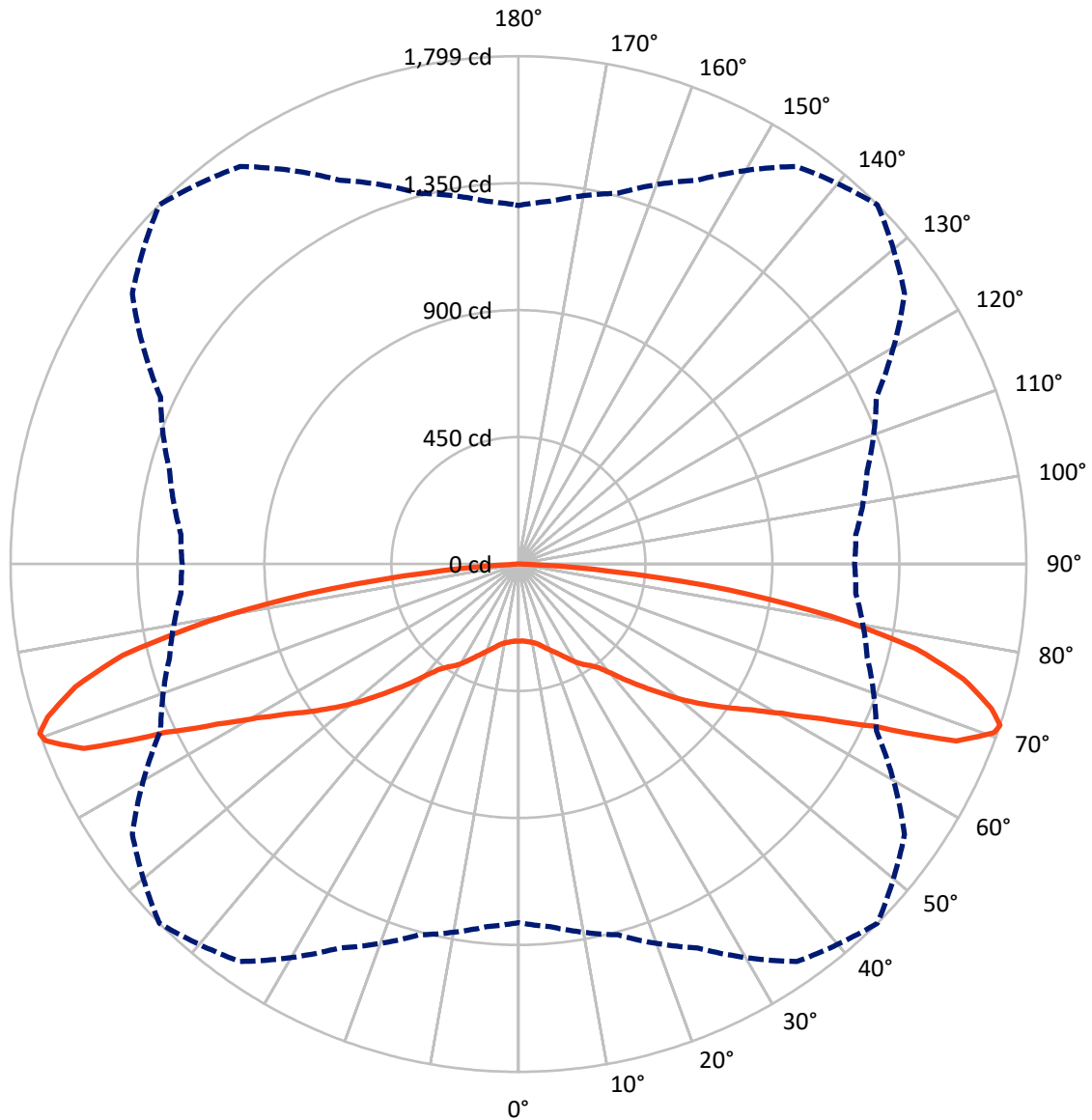


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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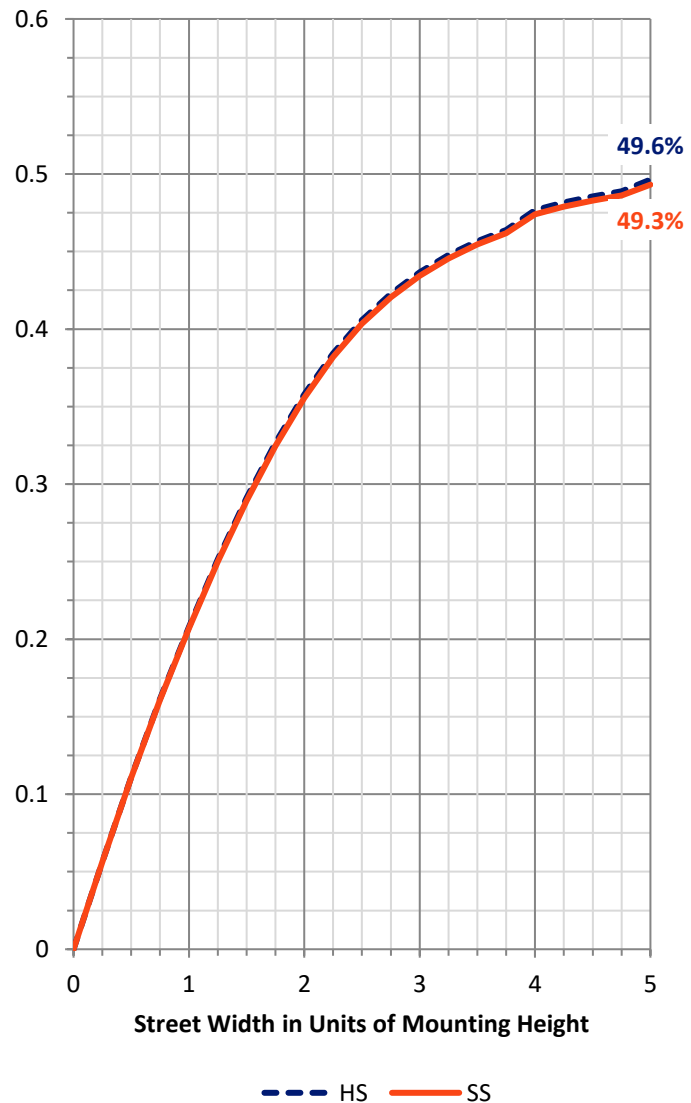
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2415.0	0.0	2415.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2415.0	0.0	2415.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4830.0	0.0	4830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	0.6
10°-20°	85.4	1.8
20°-30°	164.6	3.4
30°-40°	278.4	5.8
40°-50°	506.2	10.5
50°-60°	863.5	17.9
60°-70°	1384.6	28.7
70°-80°	1258.9	26.1
80°-90°	261.9	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°	4830.0	100.0
0°-180°	4830.0	100.0



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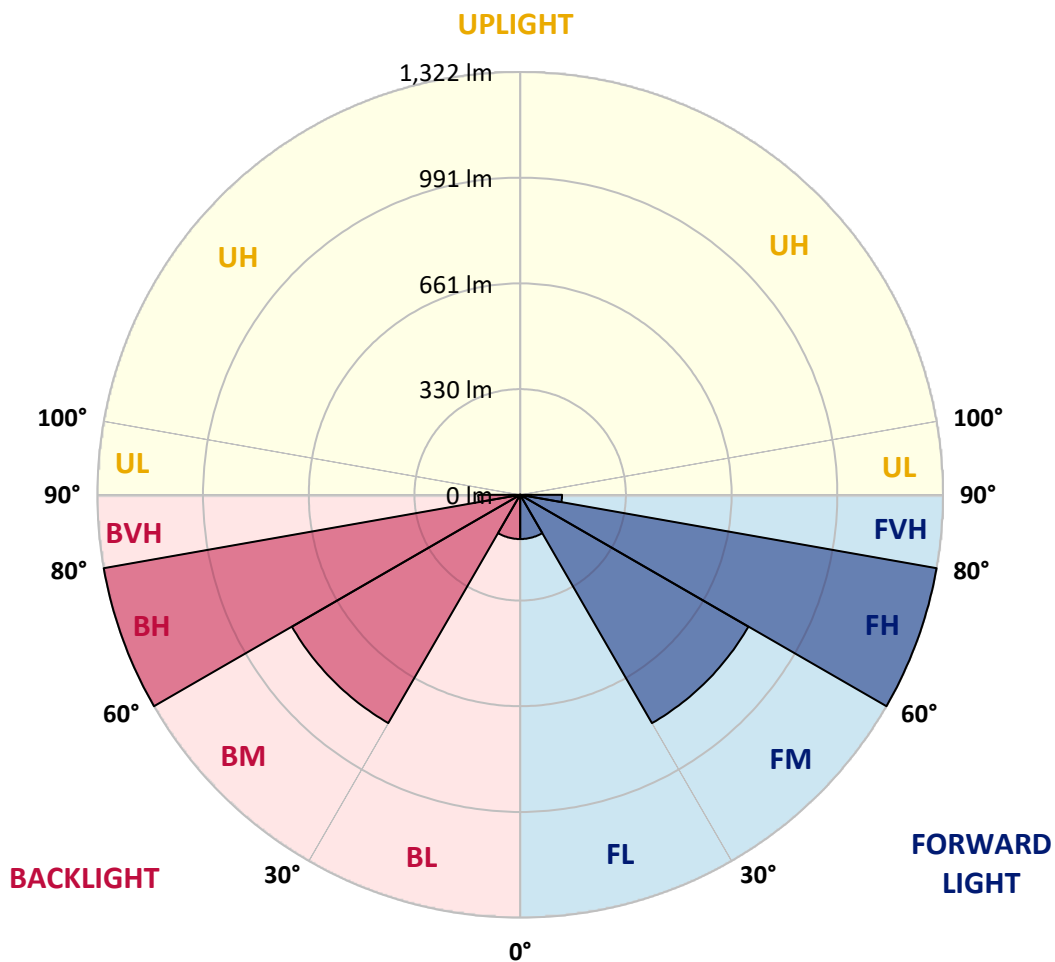
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.3	2.9			
FM (30°-60°)	824.0	17.1			
FH (60°-80°)	1321.7	27.4			G1/1800
FVH (80°-90°)	130.9	2.7			G2/225
BL (0°-30°)	138.3	2.9	B1/500		
BM (30°-60°)	824.0	17.1	B1/1000		
BH (60°-80°)	1321.7	27.4	B3/2500		G1/1800
BVH (80°-90°)	130.9	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°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7
2.5°	276.2	276.2	275.8	273.7	274.1	272.8	271.9	272.4	272.8	272.8	272.4
5°	278.4	278.4	278.0	276.2	276.7	275.4	274.9	275.4	276.2	277.1	276.2
7.5°	282.7	282.3	281.4	279.7	279.7	278.8	278.0	278.4	279.2	279.7	279.2
10°	287.4	287.0	285.7	284.0	284.0	283.1	281.4	281.4	281.4	281.0	280.5
12.5°	292.6	292.2	290.9	289.1	290.4	289.1	287.9	287.4	286.1	285.3	284.8
15°	300.8	300.3	299.0	297.7	301.2	299.5	297.3	295.2	294.3	293.4	292.6
17.5°	310.7	310.2	309.4	308.5	312.8	312.8	308.9	305.1	305.5	304.2	303.3
20°	322.3	321.8	321.0	321.8	326.6	326.1	321.0	316.2	318.0	315.4	314.5
22.5°	336.9	336.0	334.8	336.0	342.9	341.6	335.2	330.9	332.2	330.9	330.0
25°	352.8	351.1	349.4	351.1	362.3	359.7	353.3	348.1	350.7	349.8	349.4
27.5°	368.3	366.6	365.3	364.0	381.2	380.8	372.2	367.0	370.0	370.5	370.9
30°	383.4	382.9	380.8	379.1	397.6	403.6	389.0	386.8	389.0	391.5	392.4
32.5°	403.6	402.7	400.6	397.6	410.0	424.7	408.3	410.0	413.5	418.7	418.2
35°	430.7	428.5	425.5	422.5	430.3	441.9	434.6	438.0	444.0	450.1	449.2
37.5°	459.5	459.1	456.1	448.8	457.4	467.7	465.6	472.0	482.3	494.4	492.7
40°	500.8	501.3	494.8	485.3	492.7	509.4	511.6	524.9	543.0	560.2	560.6
42.5°	565.8	564.5	559.8	546.4	551.2	563.7	574.0	594.6	617.0	634.6	637.2
45°	646.3	644.5	635.1	614.0	612.7	621.7	636.8	663.5	690.6	707.8	709.1
47.5°	738.3	732.3	717.7	690.2	680.3	684.6	700.0	729.7	757.7	776.6	775.3
50°	829.1	829.6	811.9	775.8	756.0	756.0	765.0	796.0	824.4	842.0	842.5
52.5°	931.5	927.7	910.5	867.0	834.7	825.7	828.7	858.0	887.2	906.1	906.1
55°	1034.8	1030.9	1014.1	966.0	924.2	898.0	895.0	922.5	954.3	972.4	974.6
57.5°	1141.1	1138.5	1120.9	1068.4	1016.3	974.6	967.7	999.1	1032.6	1050.7	1052.0
60°	1251.7	1248.2	1230.6	1189.7	1126.0	1073.5	1060.6	1092.5	1132.5	1156.1	1154.8
62.5°	1380.3	1376.0	1362.2	1309.7	1264.6	1207.8	1182.4	1219.0	1266.7	1294.3	1296.4
65°	1483.6	1485.3	1498.2	1490.5	1448.3	1386.3	1360.9	1419.5	1447.0	1451.7	1448.3
67.5°	1456.5	1462.9	1491.3	1555.4	1631.6	1672.5	1572.6	1502.5	1450.0	1419.5	1415.2
70°	1339.4	1344.2	1412.1	1517.1	1718.9	1788.6	1662.6	1434.1	1323.9	1276.6	1271.0
71°	1270.6	1289.9	1360.1	1500.8	1719.4	1799.4	1669.9	1399.2	1279.6	1200.0	1191.4
72.5°	1165.6	1182.4	1270.6	1439.3	1694.4	1752.9	1592.4	1317.5	1178.9	1112.7	1090.7
75°	950.5	981.4	1059.3	1281.3	1580.4	1629.4	1453.9	1162.2	1013.7	941.9	936.3
77.5°	676.0	697.0	814.9	1054.6	1393.2	1439.3	1285.2	977.1	820.1	753.4	746.1
80°	375.6	396.7	521.1	741.4	1075.7	1122.1	983.6	713.8	557.2	486.2	456.9
82.5°	168.2	180.7	272.4	439.3	690.2	750.4	597.6	392.4	268.5	190.2	174.7
85°	58.5	65.0	108.4	199.2	353.3	326.1	204.8	98.1	34.4	16.8	15.5
87.5°	11.2	12.5	23.7	55.5	57.7	26.7	8.6	6.5	6.5	6.9	6.9
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)