

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: P233431

Luminaire Tested: **VRDN-C01-D-UNV-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233431
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-C01-D-UNV-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1230mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7525 lumens
Efficiency: N/A
Efficacy: 134.4 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

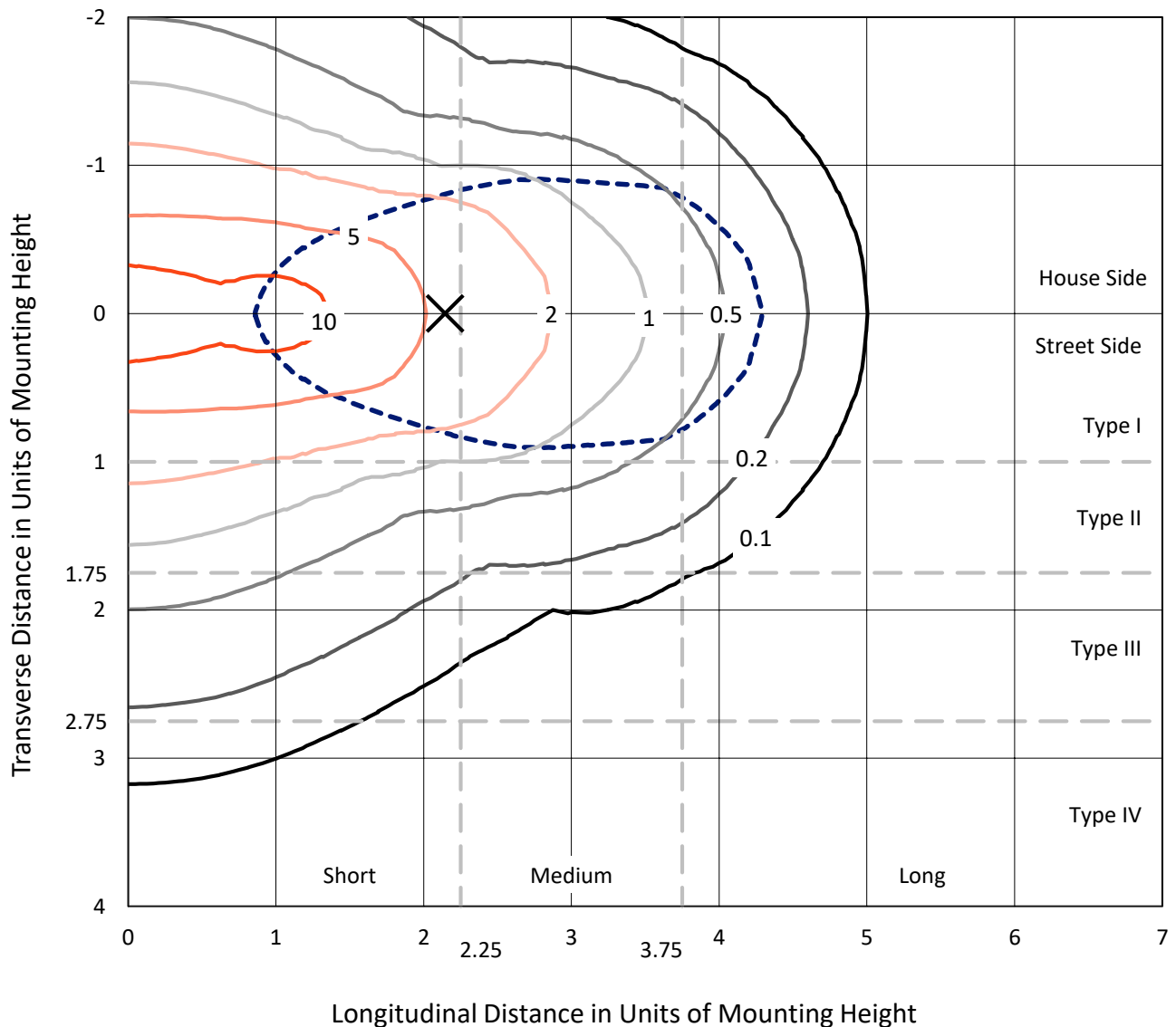
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

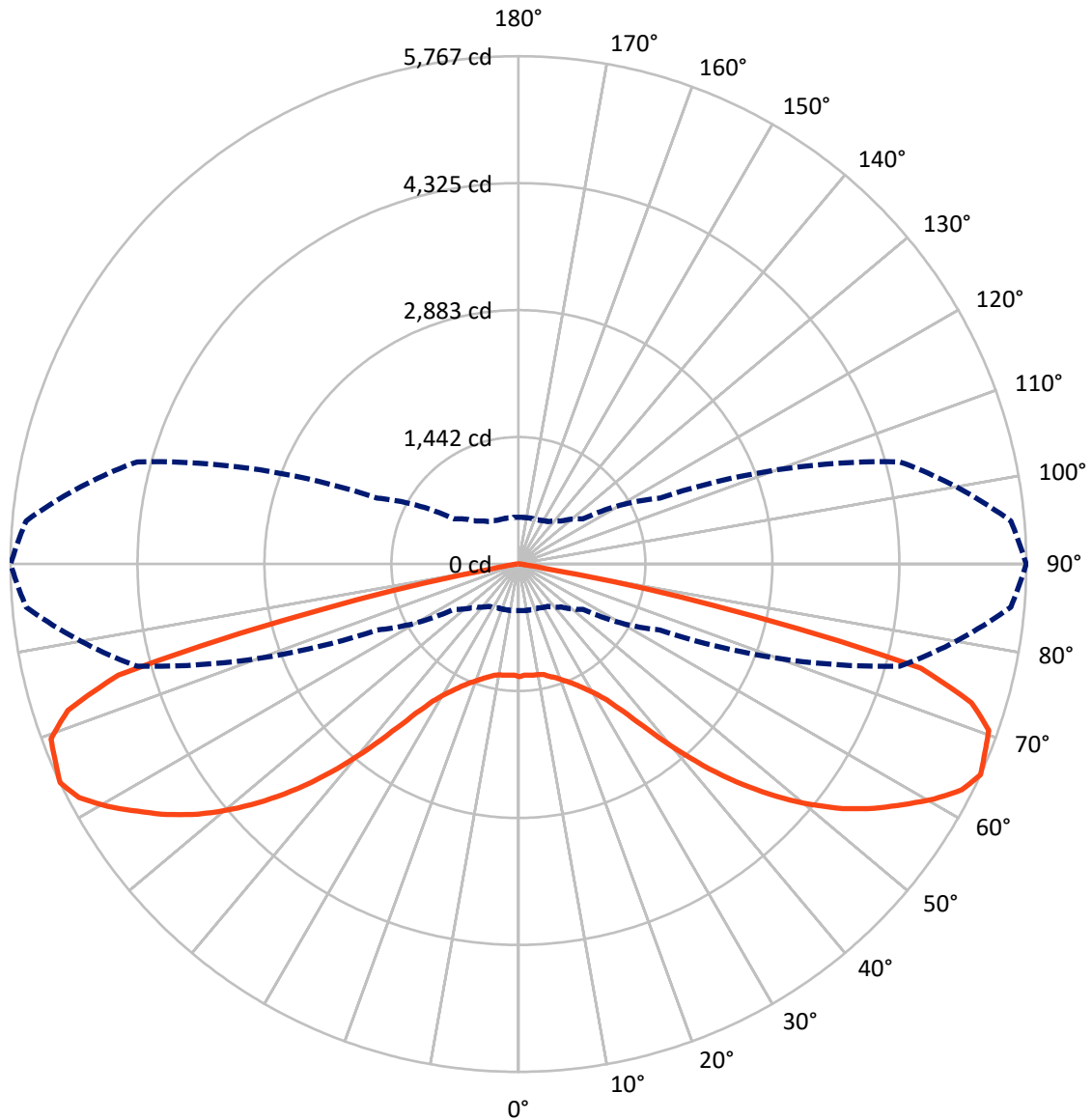
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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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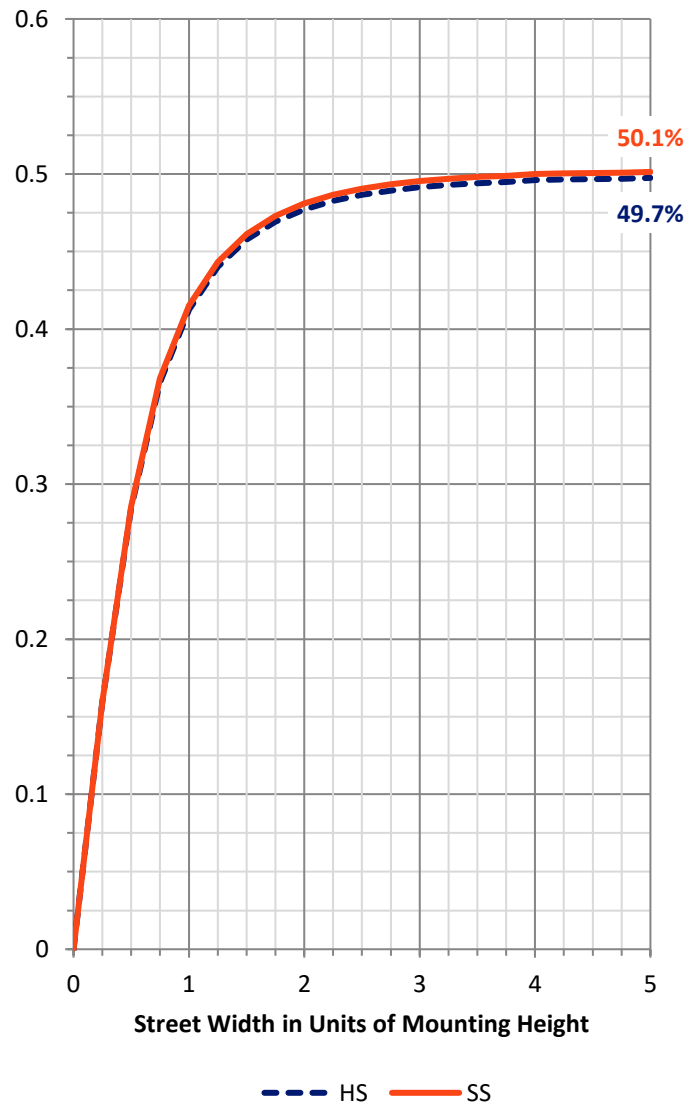
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3762.5	0.0	3762.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3762.5	0.0	3762.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7525.0	0.0	7525.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	1.6
10°-20°	358.3	4.8
20°-30°	587.6	7.8
30°-40°	849.6	11.3
40°-50°	1244.1	16.5
50°-60°	1613.9	21.4
60°-70°	1706.8	22.7
70°-80°	1002.0	13.3
80°-90°	41.3	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°	7525.0	100.0
0°-180°	7525.0	100.0



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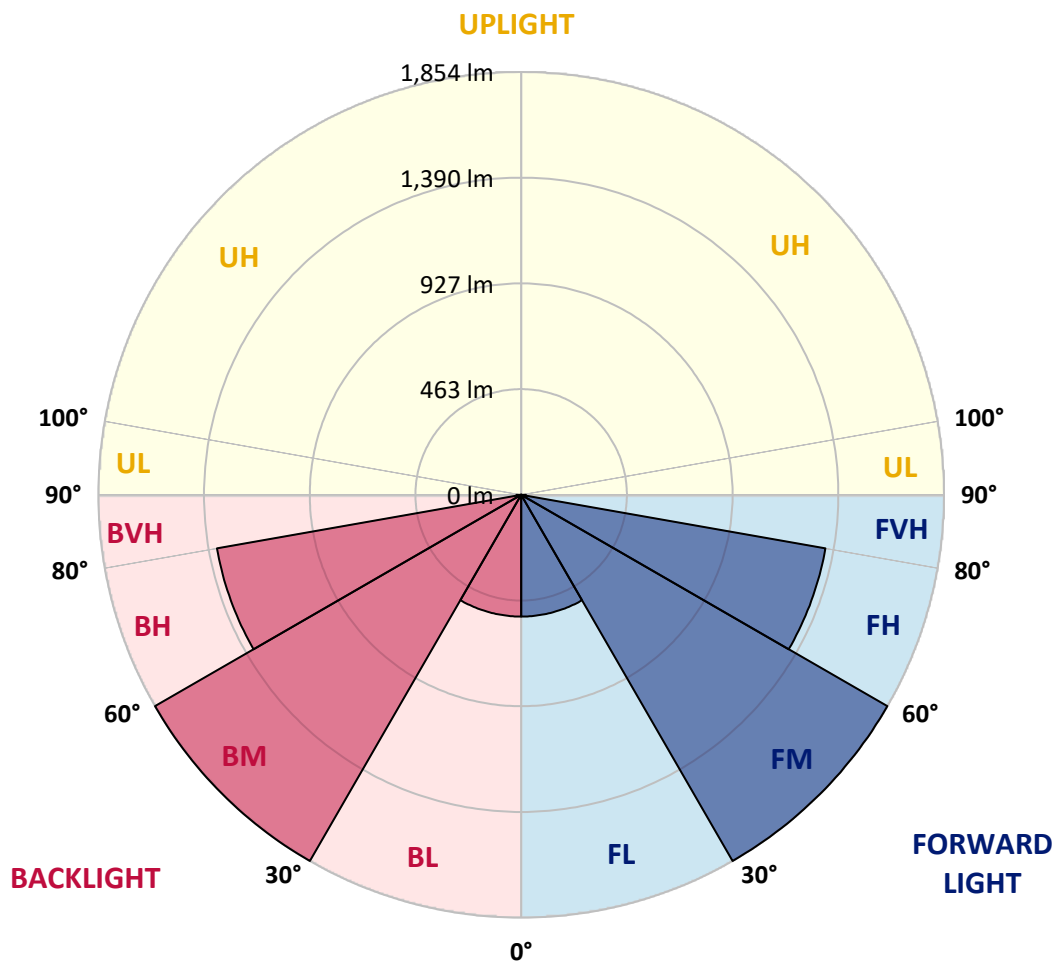
CATALOG NUMBER: VRDN-C01-D-UNV-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.6	7.1			
FM	(30°-60°)	1853.8	24.6			
FH	(60°-80°)	1354.4	18.0			G1/1800
FVH	(80°-90°)	20.6	0.3			G1/100
BL	(0°-30°)	533.6	7.1	B2/1000		
BM	(30°-60°)	1853.8	24.6	B2/2500		
BH	(60°-80°)	1354.4	18.0	B3/2500		G3/2500
BVH	(80°-90°)	20.6	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°	1280.8	1280.8	1280.8	1280.8	1280.8	1280.8	1280.8	1280.8	1280.8	1280.8	1280.8
2.5°	1293.2	1291.9	1284.7	1274.3	1271.1	1273.7	1273.0	1269.8	1269.8	1271.1	1262.6
5°	1285.4	1283.4	1275.0	1272.4	1273.0	1276.3	1275.6	1273.0	1274.3	1273.0	1266.5
7.5°	1271.7	1269.8	1264.6	1263.3	1262.0	1267.2	1272.4	1275.6	1279.5	1277.6	1273.0
10°	1258.7	1254.8	1255.5	1249.0	1251.6	1261.3	1266.5	1272.4	1278.2	1277.6	1276.3
12.5°	1239.2	1235.4	1237.3	1235.4	1244.4	1256.1	1271.7	1282.8	1289.3	1287.3	1289.3
15°	1215.2	1213.9	1217.2	1219.8	1236.0	1262.6	1279.5	1303.5	1317.8	1318.5	1323.0
17.5°	1187.9	1185.3	1191.2	1200.9	1230.8	1260.0	1302.2	1328.9	1349.7	1352.9	1356.8
20°	1141.8	1143.1	1152.2	1169.1	1211.3	1263.9	1315.9	1356.2	1386.0	1393.8	1402.3
22.5°	1084.0	1087.3	1104.2	1139.2	1193.8	1259.4	1330.8	1388.0	1430.9	1448.4	1453.6
25°	1023.6	1028.8	1056.1	1102.9	1173.6	1257.4	1349.7	1425.0	1486.1	1514.0	1517.2
27.5°	969.7	974.3	1009.3	1069.1	1154.8	1258.1	1366.6	1469.8	1552.3	1593.2	1599.7
30°	915.1	920.3	956.7	1030.8	1136.0	1256.8	1386.0	1520.5	1631.5	1690.0	1699.7
32.5°	868.4	873.6	911.3	988.5	1112.6	1254.8	1409.4	1582.2	1727.0	1821.9	1834.8
35°	828.8	834.6	872.9	948.9	1082.7	1255.5	1443.2	1666.6	1875.1	2031.6	2057.0
37.5°	795.6	801.5	835.3	911.9	1052.2	1250.3	1484.1	1773.1	2071.3	2330.4	2377.2
40°	774.9	780.1	805.4	873.6	1015.2	1238.6	1531.5	1891.3	2310.9	2688.9	2770.8
42.5°	753.4	759.3	780.1	838.5	975.6	1221.1	1573.1	2010.2	2561.0	3065.0	3181.9
45°	730.0	733.9	756.7	809.3	936.6	1193.8	1609.5	2123.9	2823.4	3446.9	3573.6
47.5°	710.6	712.5	731.3	780.1	895.7	1153.5	1619.2	2221.3	3088.4	3818.4	3942.5
50°	697.6	694.3	711.9	754.1	857.3	1097.7	1602.3	2294.0	3373.5	4173.0	4290.6
52.5°	677.4	676.8	690.4	728.7	821.0	1033.4	1541.9	2329.1	3658.6	4504.9	4614.1
55°	658.6	658.6	669.6	699.5	782.6	967.1	1438.6	2314.8	3932.1	4819.3	4899.2
57.5°	631.3	630.7	639.8	667.0	737.8	904.8	1308.1	2248.6	4154.2	5110.3	5153.8
60°	604.7	604.0	609.2	630.0	695.0	837.9	1168.5	2118.7	4374.4	5367.5	5419.4
62.5°	570.9	570.3	575.5	593.6	646.9	766.4	1031.4	1960.2	4503.6	5515.6	5650.0
65°	530.6	531.3	537.8	549.5	587.1	689.8	895.7	1771.2	4482.2	5611.7	5766.9
67.5°	492.3	490.4	495.6	497.5	525.4	609.2	769.0	1621.2	4318.5	5628.6	5713.0
70°	444.9	442.3	442.3	434.5	454.0	515.1	650.2	1464.0	3853.5	5474.6	5666.9
72.5°	372.2	372.2	368.3	359.8	372.2	417.6	541.7	1288.6	3122.2	5140.8	5379.2
75°	231.9	233.8	242.3	268.2	286.4	315.0	429.3	1086.0	2550.6	4277.0	4716.7
77.5°	118.9	121.5	124.7	125.4	129.9	135.7	204.6	607.9	1296.4	2131.0	2273.3
80°	29.9	30.5	73.4	81.8	87.7	90.3	75.3	202.6	335.8	314.4	307.2
82.5°	20.1	21.4	42.2	52.0	48.1	36.4	41.6	61.7	50.0	68.2	76.6
85°	11.0	11.0	18.8	20.1	20.8	23.4	20.8	20.1	22.7	43.5	50.7
87.5°	5.2	5.2	7.8	9.7	9.7	11.7	9.7	10.4	10.4	20.1	23.4
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)