

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: P233418

Luminaire Tested: **VRDN-C01-D-UNV-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233418
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-T1-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1230mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7323 lumens
Efficiency: N/A
Efficacy: 130.8 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

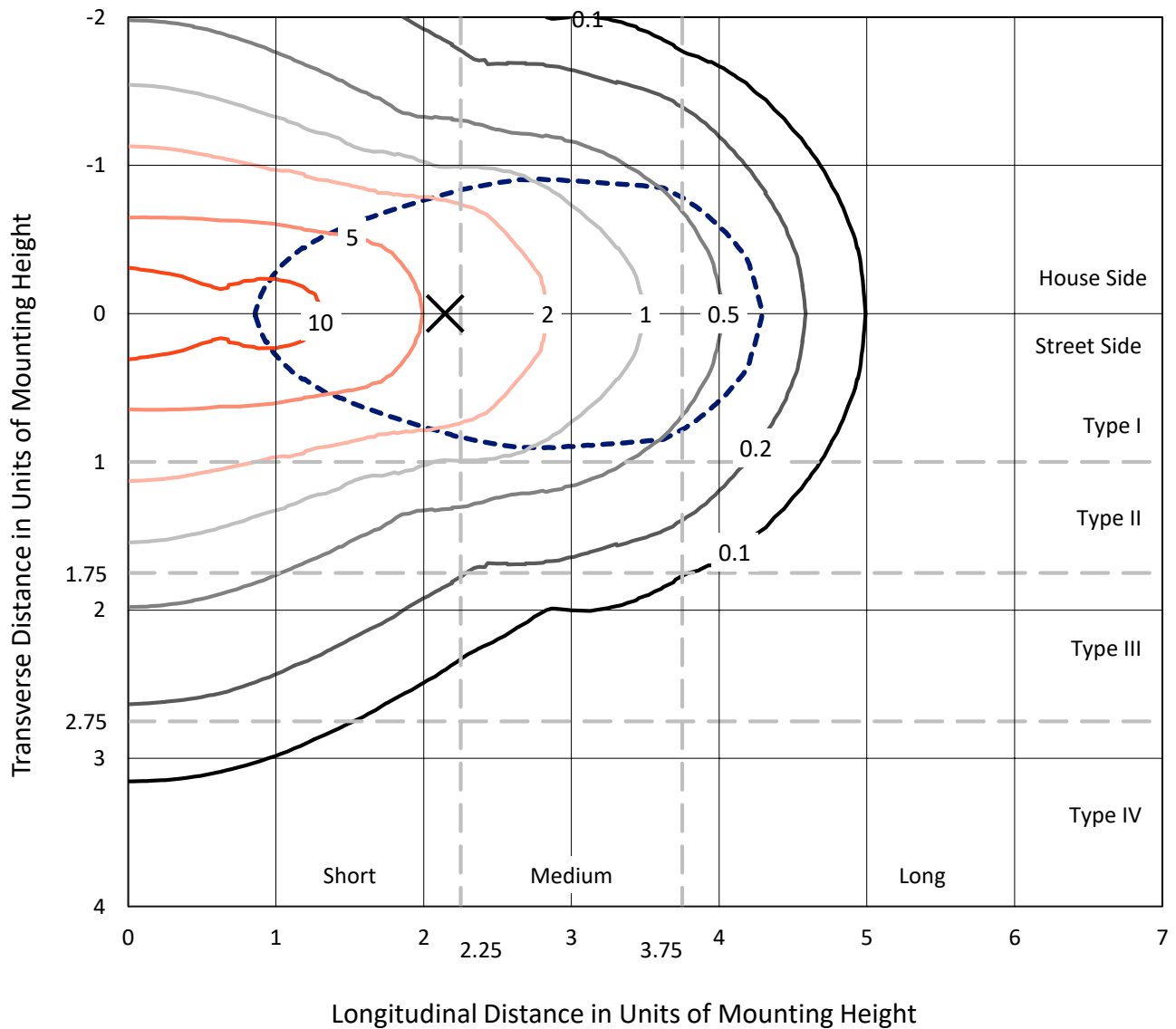
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

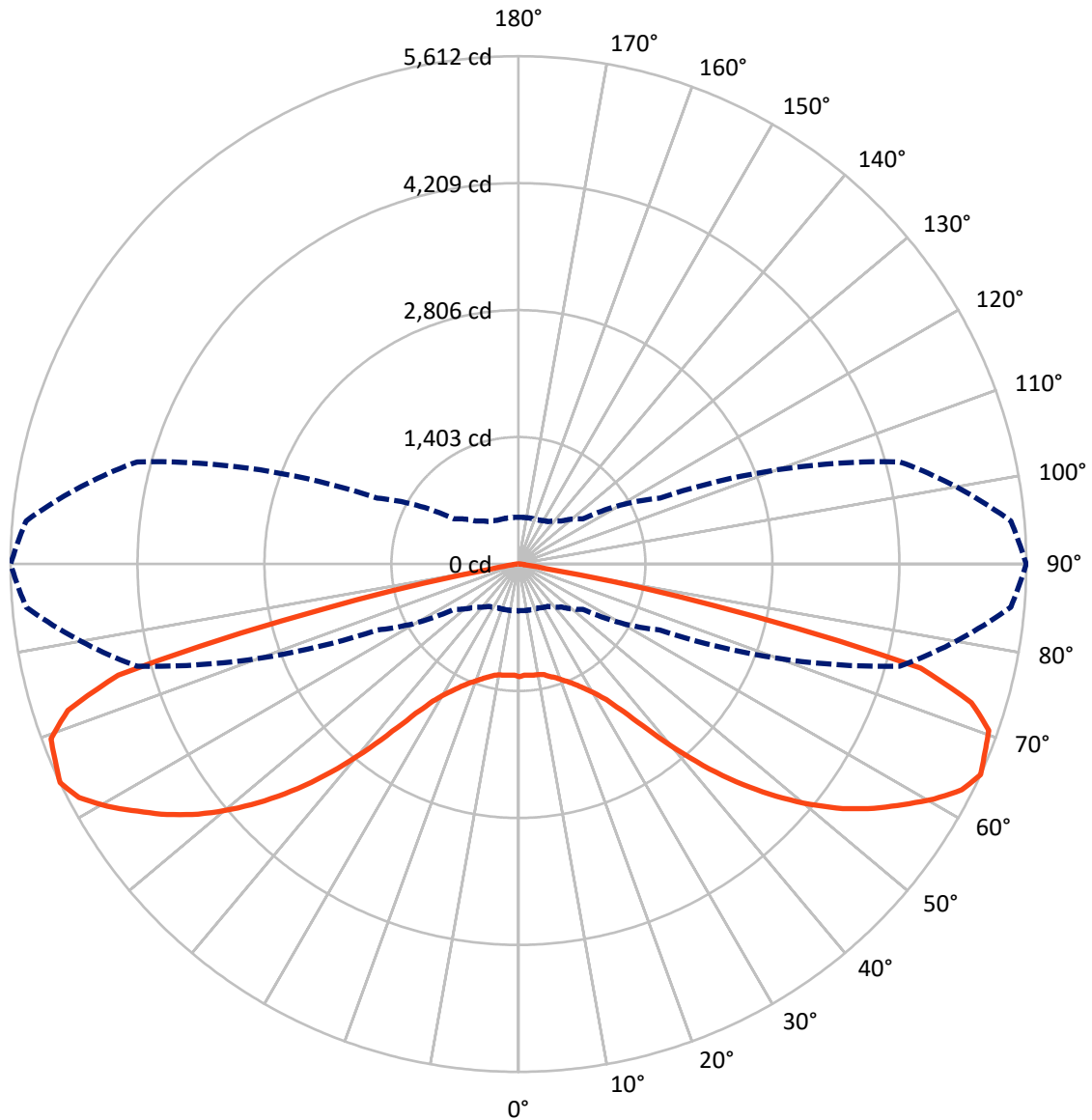
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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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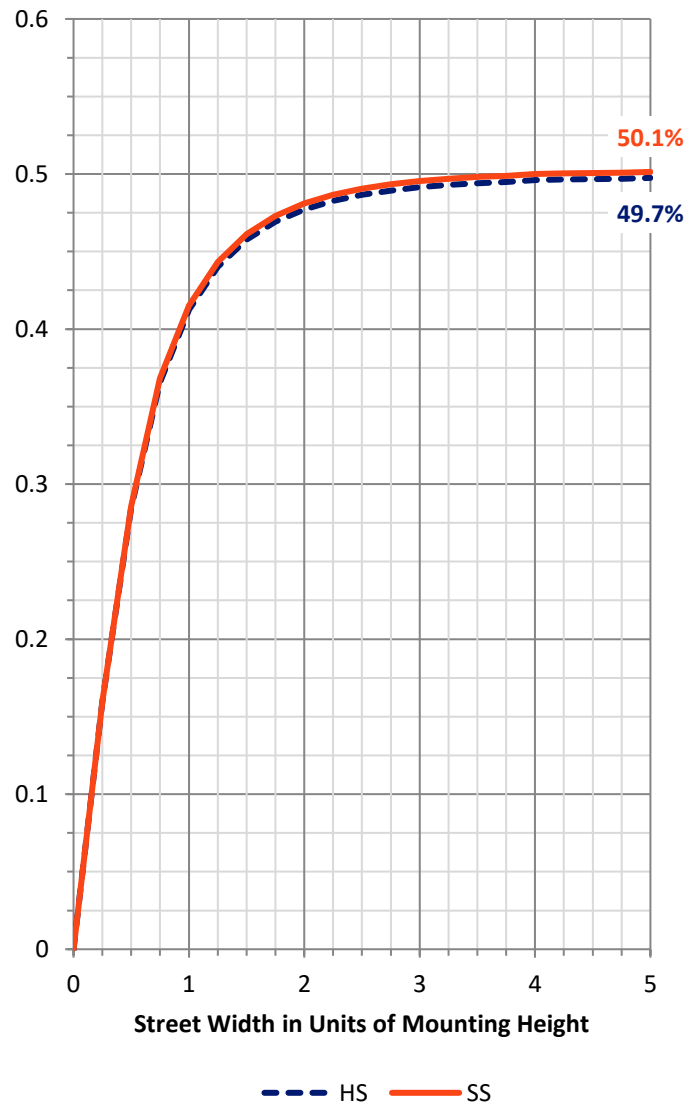
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3661.5	0.0	3661.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3661.5	0.0	3661.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7323.0	0.0	7323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.6
10°-20°	348.7	4.8
20°-30°	571.8	7.8
30°-40°	826.8	11.3
40°-50°	1210.7	16.5
50°-60°	1570.6	21.4
60°-70°	1661.0	22.7
70°-80°	975.1	13.3
80°-90°	40.2	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°	7323.0	100.0
0°-180°	7323.0	100.0



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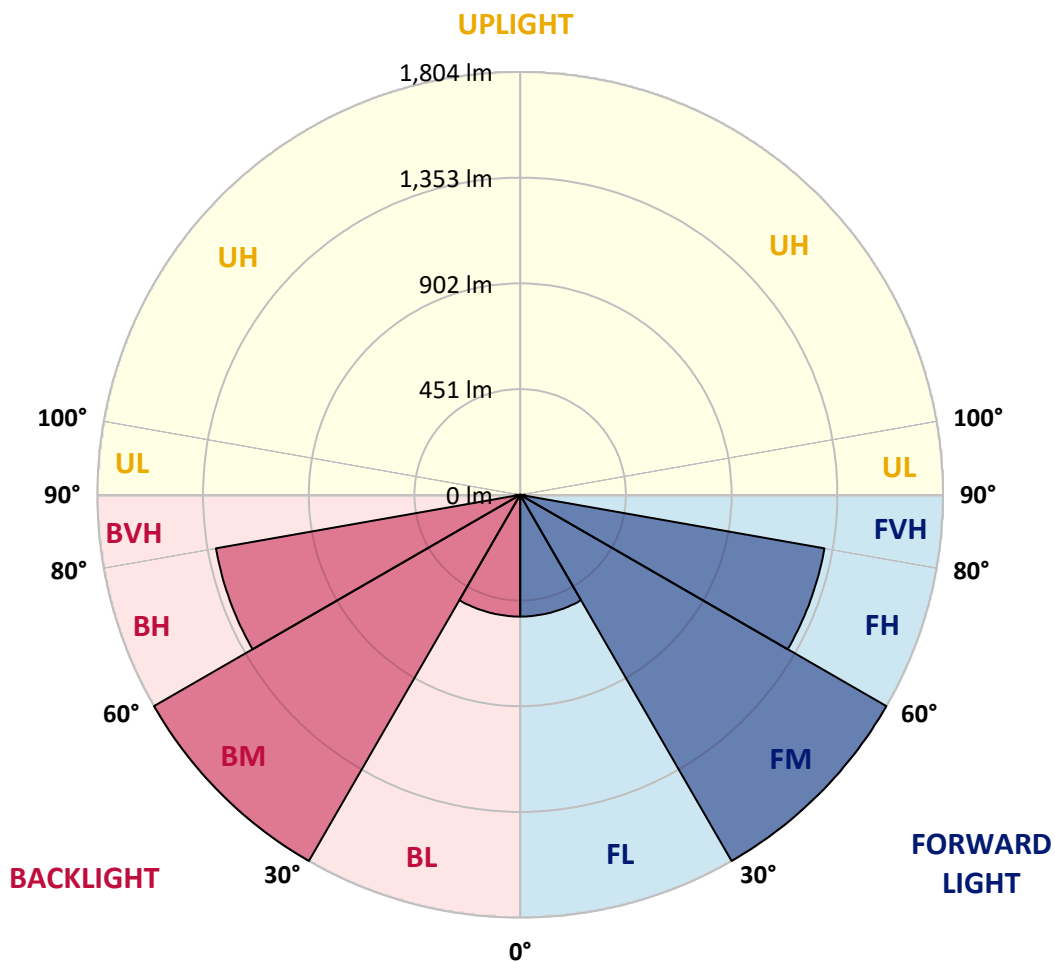
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.3	7.1			
FM	(30°-60°)	1804.1	24.6			
FH	(60°-80°)	1318.1	18.0			G1/1800
FVH	(80°-90°)	20.1	0.3			G1/100
BL	(0°-30°)	519.3	7.1	B2/1000		
BM	(30°-60°)	1804.1	24.6	B2/2500		
BH	(60°-80°)	1318.1	18.0	B3/2500		G3/2500
BVH	(80°-90°)	20.1	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°	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4
2.5°	1258.4	1257.2	1250.2	1240.1	1237.0	1239.5	1238.8	1235.7	1235.7	1237.0	1228.7
5°	1250.9	1249.0	1240.7	1238.2	1238.8	1242.0	1241.4	1238.8	1240.1	1238.8	1232.5
7.5°	1237.6	1235.7	1230.6	1229.4	1228.1	1233.2	1238.2	1241.4	1245.2	1243.3	1238.8
10°	1224.9	1221.2	1221.8	1215.5	1218.0	1227.5	1232.5	1238.2	1243.9	1243.3	1242.0
12.5°	1206.0	1202.2	1204.1	1202.2	1211.0	1222.4	1237.6	1248.3	1254.7	1252.8	1254.7
15°	1182.6	1181.3	1184.5	1187.0	1202.8	1228.7	1245.2	1268.6	1282.5	1283.1	1287.5
17.5°	1156.0	1153.5	1159.2	1168.7	1197.8	1226.2	1267.3	1293.2	1313.4	1316.6	1320.4
20°	1111.2	1112.4	1121.3	1137.7	1178.8	1230.0	1280.6	1319.8	1348.8	1356.4	1364.6
22.5°	1054.9	1058.1	1074.5	1108.6	1161.7	1225.6	1295.1	1350.7	1392.4	1409.5	1414.6
25°	996.1	1001.2	1027.7	1073.2	1142.1	1223.7	1313.4	1386.8	1446.2	1473.3	1476.5
27.5°	943.7	948.1	982.2	1040.4	1123.8	1224.3	1329.9	1430.4	1510.6	1550.5	1556.8
30°	890.6	895.6	931.0	1003.1	1105.5	1223.0	1348.8	1479.7	1587.7	1644.6	1654.1
32.5°	845.1	850.1	886.8	962.0	1082.7	1221.2	1371.6	1539.7	1680.7	1772.9	1785.6
35°	806.5	812.2	849.5	923.4	1053.7	1221.8	1404.5	1621.9	1824.8	1977.1	2001.8
37.5°	774.3	780.0	812.8	887.4	1023.9	1216.7	1444.3	1725.5	2015.7	2267.9	2313.4
40°	754.1	759.1	783.8	850.1	987.9	1205.3	1490.4	1840.6	2248.9	2616.8	2696.4
42.5°	733.2	738.9	759.1	816.0	949.4	1188.3	1530.9	1956.2	2492.2	2982.7	3096.5
45°	710.4	714.2	736.4	787.6	911.4	1161.7	1566.3	2066.9	2747.6	3354.4	3477.6
47.5°	691.5	693.4	711.7	759.1	871.6	1122.5	1575.7	2161.7	3005.5	3715.9	3836.6
50°	678.8	675.7	692.7	733.8	834.3	1068.2	1559.3	2232.5	3283.0	4061.0	4175.4
52.5°	659.2	658.6	671.9	709.2	798.9	1005.6	1500.5	2266.6	3560.4	4384.0	4490.2
55°	640.9	640.9	651.7	680.7	761.6	941.1	1400.0	2252.7	3826.5	4689.9	4767.7
57.5°	614.4	613.7	622.6	649.1	718.0	880.5	1273.0	2188.2	4042.7	4973.1	5015.4
60°	588.5	587.8	592.9	613.1	676.3	815.4	1137.1	2061.8	4257.0	5223.4	5274.0
62.5°	555.6	555.0	560.0	577.7	629.5	745.8	1003.7	1907.6	4382.7	5367.5	5498.3
65°	516.4	517.0	523.4	534.7	571.4	671.3	871.6	1723.6	4361.9	5461.1	5612.1
67.5°	479.1	477.2	482.3	484.2	511.3	592.9	748.4	1577.6	4202.6	5477.5	5559.7
70°	433.0	430.4	430.4	422.9	441.8	501.2	632.7	1424.7	3750.0	5327.7	5514.8
72.5°	362.2	362.2	358.4	350.2	362.2	406.4	527.1	1254.0	3038.3	5002.8	5234.8
75°	225.6	227.5	235.8	261.0	278.7	306.6	417.8	1056.8	2482.1	4162.2	4590.1
77.5°	115.7	118.2	121.4	122.0	126.4	132.1	199.1	591.6	1261.6	2073.8	2212.2
80°	29.1	29.7	71.4	79.6	85.3	87.9	73.3	197.2	326.8	305.9	299.0
82.5°	19.6	20.9	41.1	50.6	46.8	35.4	40.5	60.0	48.7	66.4	74.6
85°	10.7	10.7	18.3	19.6	20.2	22.8	20.2	19.6	22.1	42.3	49.3
87.5°	5.1	5.1	7.6	9.5	9.5	11.4	9.5	10.1	10.1	19.6	22.8
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)