

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: P233429

Luminaire Tested: **VRDN-C016-D-UNV-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233429
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-C016-D-UNV-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 950mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5122 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - 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

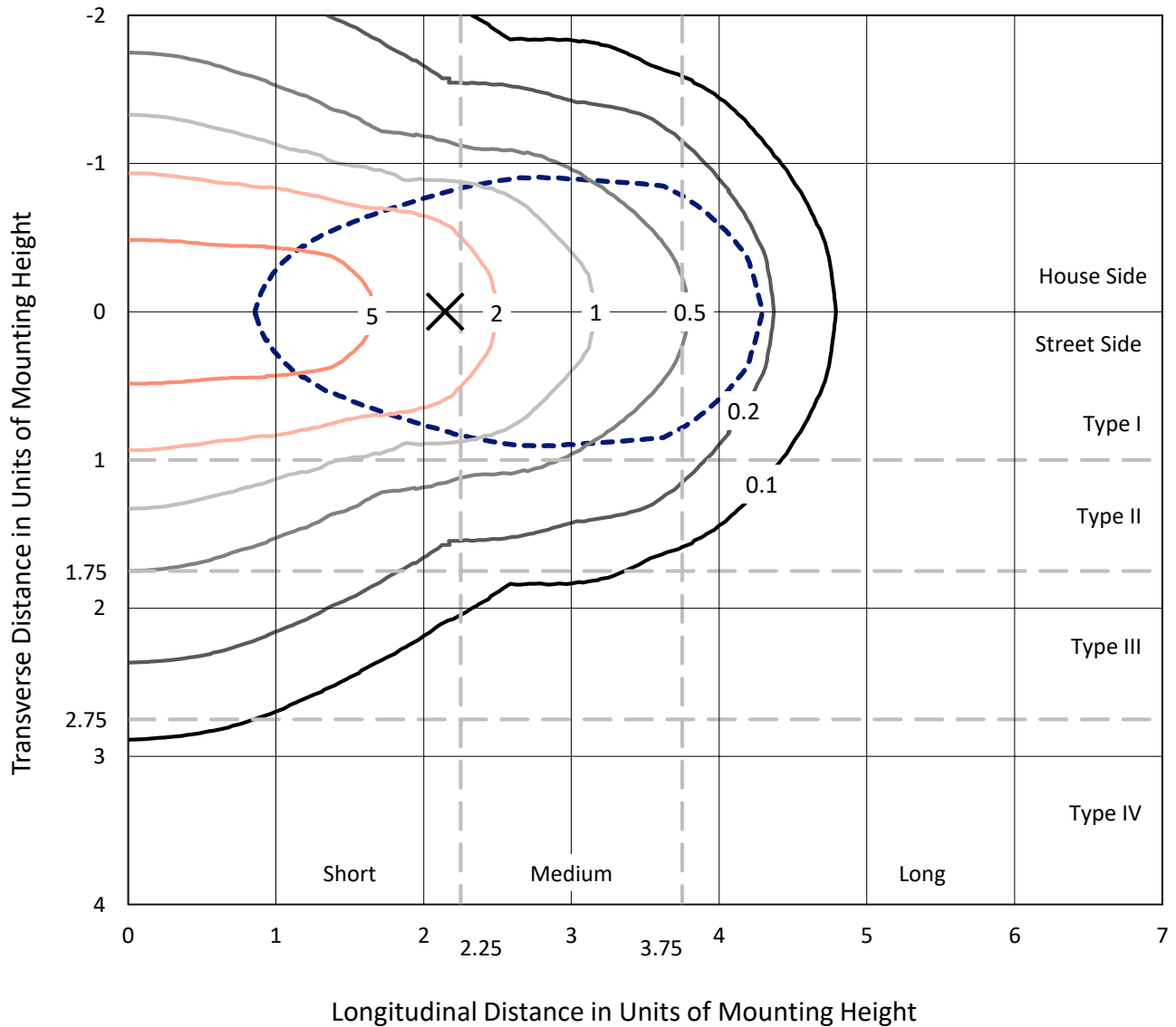


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

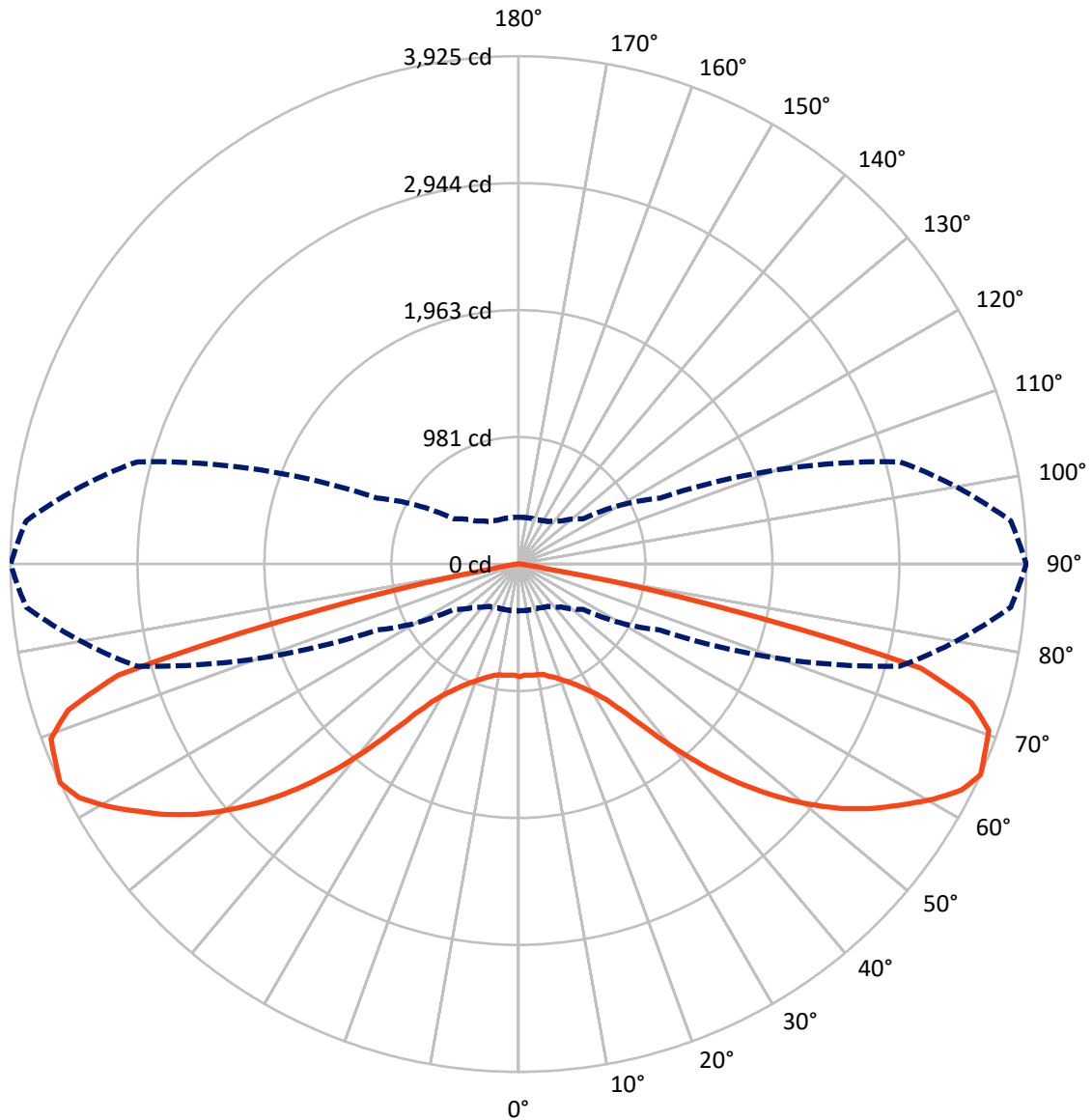


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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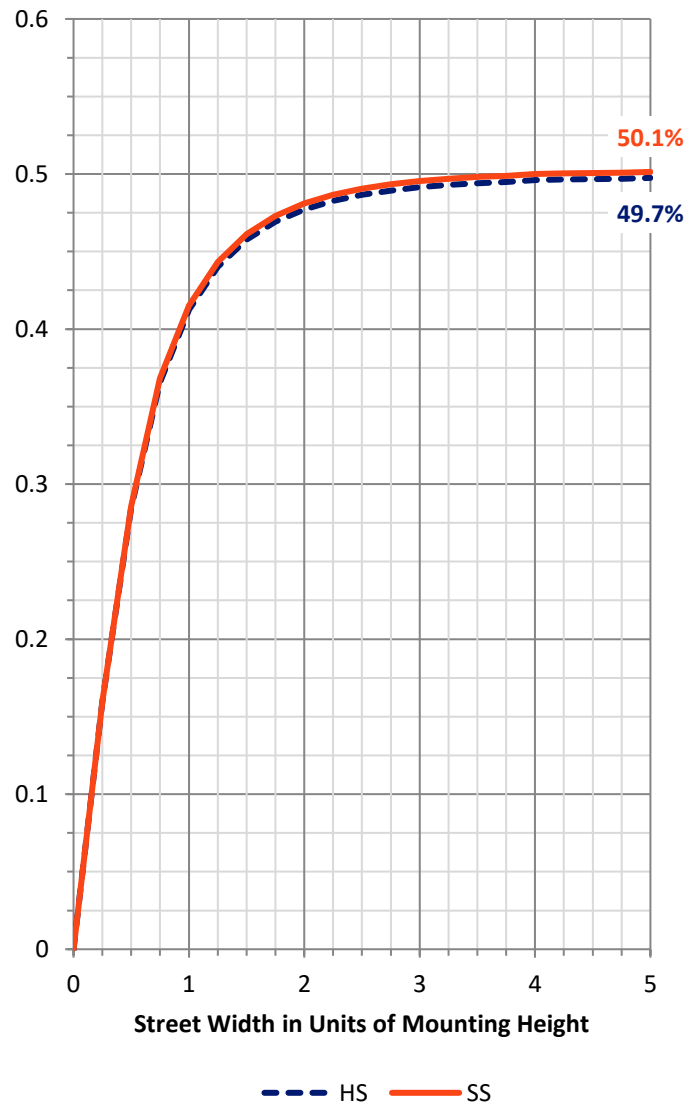
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2561.0	0.0	2561.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2561.0	0.0	2561.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5122.0	0.0	5122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	1.6
10°-20°	243.9	4.8
20°-30°	400.0	7.8
30°-40°	578.3	11.3
40°-50°	846.8	16.5
50°-60°	1098.5	21.4
60°-70°	1161.8	22.7
70°-80°	682.0	13.3
80°-90°	28.1	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°	5122.0	100.0
0°-180°	5122.0	100.0



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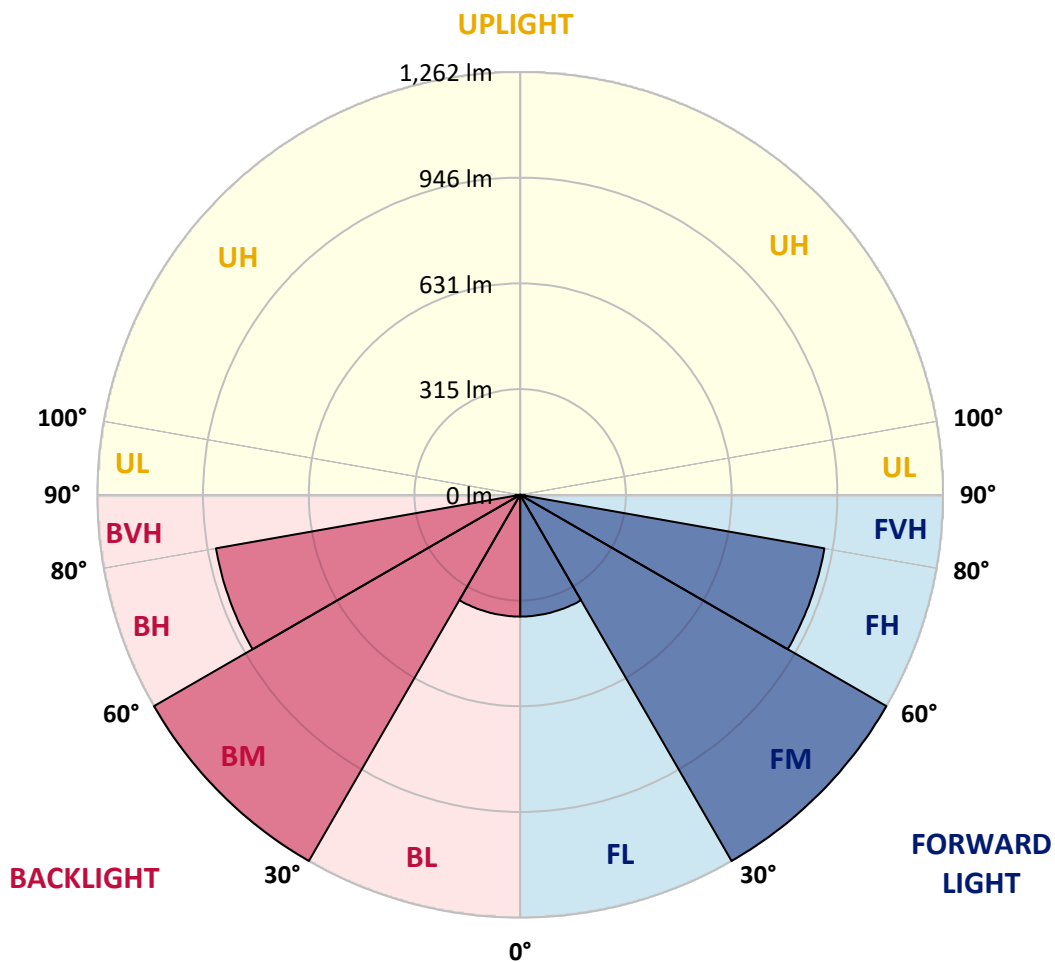
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.2	7.1			
FM	(30°-60°)	1261.8	24.6			
FH	(60°-80°)	921.9	18.0			G1/1800
FVH	(80°-90°)	14.0	0.3			G1/100
BL	(0°-30°)	363.2	7.1	B1/500		
BM	(30°-60°)	1261.8	24.6	B2/2500		
BH	(60°-80°)	921.9	18.0	B2/1000		G2/1000
BVH	(80°-90°)	14.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	871.8	871.8	871.8	871.8	871.8	871.8	871.8	871.8	871.8	871.8	871.8
2.5°	880.2	879.3	874.5	867.4	865.2	866.9	866.5	864.3	864.3	865.2	859.4
5°	874.9	873.6	867.8	866.1	866.5	868.7	868.3	866.5	867.4	866.5	862.1
7.5°	865.6	864.3	860.8	859.9	859.0	862.5	866.1	868.3	870.9	869.6	866.5
10°	856.8	854.1	854.6	850.1	851.9	858.5	862.1	866.1	870.0	869.6	868.7
12.5°	843.5	840.9	842.2	840.9	847.0	855.0	865.6	873.1	877.6	876.2	877.6
15°	827.2	826.3	828.5	830.2	841.3	859.4	870.9	887.3	897.0	897.4	900.5
17.5°	808.6	806.8	810.8	817.4	837.8	857.7	886.4	904.5	918.7	920.9	923.5
20°	777.2	778.1	784.3	795.8	824.5	860.3	895.7	923.1	943.4	948.7	954.5
22.5°	737.9	740.1	751.6	775.4	812.6	857.2	905.8	944.8	973.9	985.9	989.4
25°	696.7	700.3	718.8	750.7	798.9	855.9	918.7	970.0	1011.5	1030.5	1032.7
27.5°	660.0	663.1	687.0	727.7	786.0	856.3	930.2	1000.5	1056.6	1084.5	1088.9
30°	622.9	626.4	651.2	701.6	773.2	855.4	943.4	1034.9	1110.5	1150.3	1157.0
32.5°	591.1	594.6	620.3	672.9	757.3	854.1	959.3	1076.9	1175.5	1240.1	1248.9
35°	564.1	568.1	594.2	645.9	737.0	854.6	982.3	1134.4	1276.3	1382.9	1400.1
37.5°	541.6	545.5	568.5	620.7	716.2	851.0	1010.2	1206.9	1409.8	1586.2	1618.1
40°	527.4	531.0	548.2	594.6	691.0	843.1	1042.5	1287.4	1573.0	1830.3	1886.0
42.5°	512.8	516.8	531.0	570.7	664.0	831.1	1070.7	1368.3	1743.2	2086.2	2165.8
45°	496.9	499.6	515.0	550.8	637.5	812.6	1095.5	1445.6	1921.8	2346.2	2432.4
47.5°	483.6	485.0	497.8	531.0	609.6	785.2	1102.1	1512.0	2102.1	2599.1	2683.5
50°	474.8	472.6	484.5	513.3	583.6	747.1	1090.6	1561.5	2296.2	2840.4	2920.5
52.5°	461.1	460.7	469.9	496.0	558.8	703.4	1049.5	1585.3	2490.3	3066.4	3140.6
55°	448.3	448.3	455.8	476.1	532.7	658.3	979.2	1575.6	2676.4	3280.3	3334.7
57.5°	429.7	429.3	435.5	454.0	502.2	615.8	890.4	1530.5	2827.6	3478.4	3508.0
60°	411.6	411.1	414.7	428.8	473.0	570.3	795.3	1442.1	2977.5	3653.5	3688.8
62.5°	388.6	388.2	391.7	404.1	440.3	521.7	702.0	1334.2	3065.5	3754.2	3845.8
65°	361.2	361.6	366.1	374.0	399.7	469.5	609.6	1205.6	3050.9	3819.7	3925.3
67.5°	335.1	333.8	337.3	338.6	357.7	414.7	523.4	1103.5	2939.5	3831.2	3888.6
70°	302.8	301.1	301.1	295.8	309.0	350.6	442.5	996.5	2622.9	3726.4	3857.3
72.5°	253.3	253.3	250.7	244.9	253.3	284.3	368.7	877.1	2125.1	3499.2	3661.4
75°	157.8	159.2	164.9	182.6	195.0	214.4	292.2	739.2	1736.1	2911.2	3210.5
77.5°	80.9	82.7	84.9	85.3	88.4	92.4	139.3	413.8	882.4	1450.5	1547.3
80°	20.3	20.8	50.0	55.7	59.7	61.5	51.3	137.9	228.6	214.0	209.1
82.5°	13.7	14.6	28.7	35.4	32.7	24.8	28.3	42.0	34.0	46.4	52.2
85°	7.5	7.5	12.8	13.7	14.1	15.9	14.1	13.7	15.5	29.6	34.5
87.5°	3.5	3.5	5.3	6.6	6.6	8.0	6.6	7.1	7.1	13.7	15.9
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)