

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: P233417

Luminaire Tested: **VRDN-C018-D-UNV-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233417
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-C018-D-UNV-T1-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1210mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6117 lumens
Efficiency: N/A
Efficacy: 122.3 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

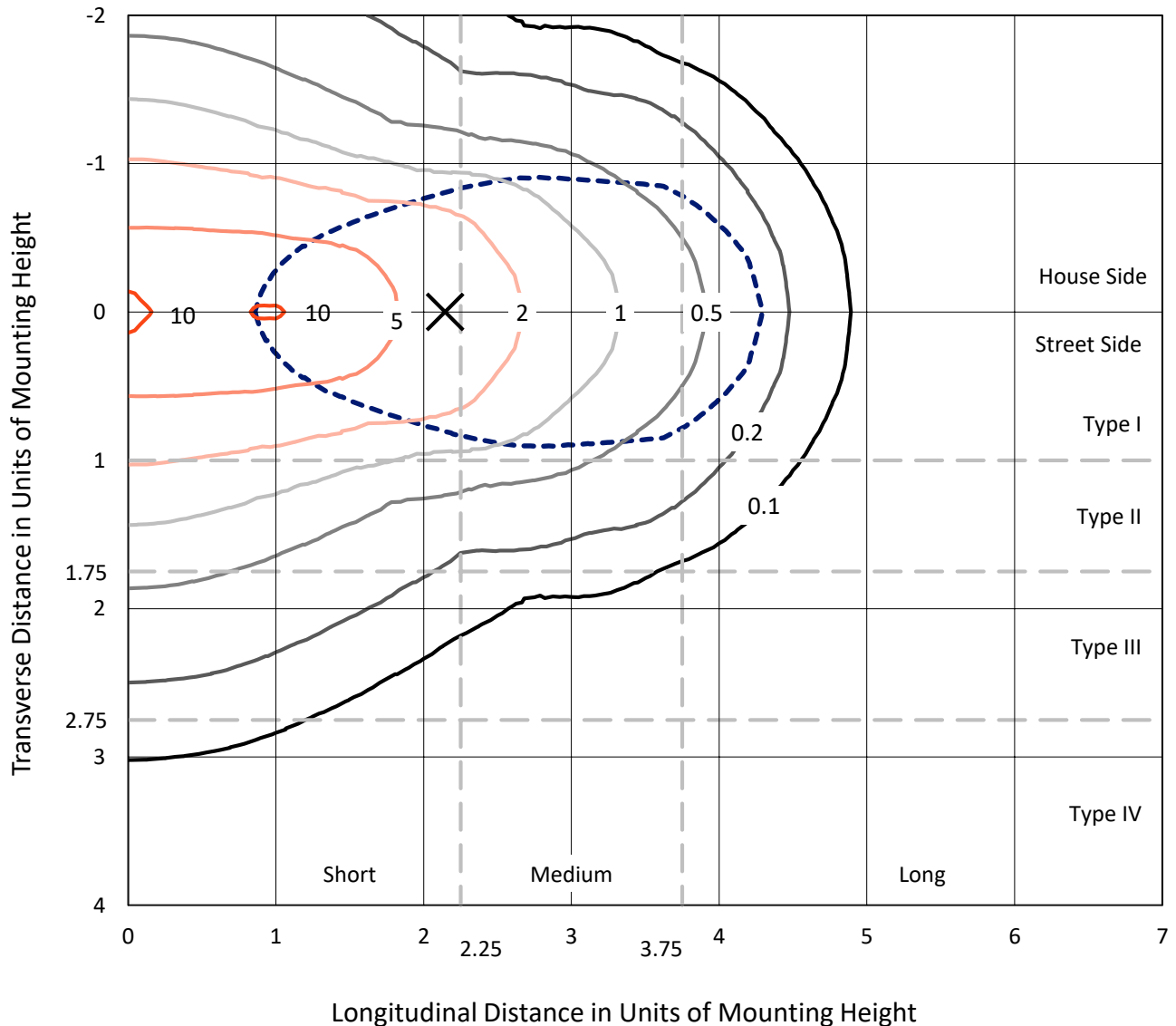
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

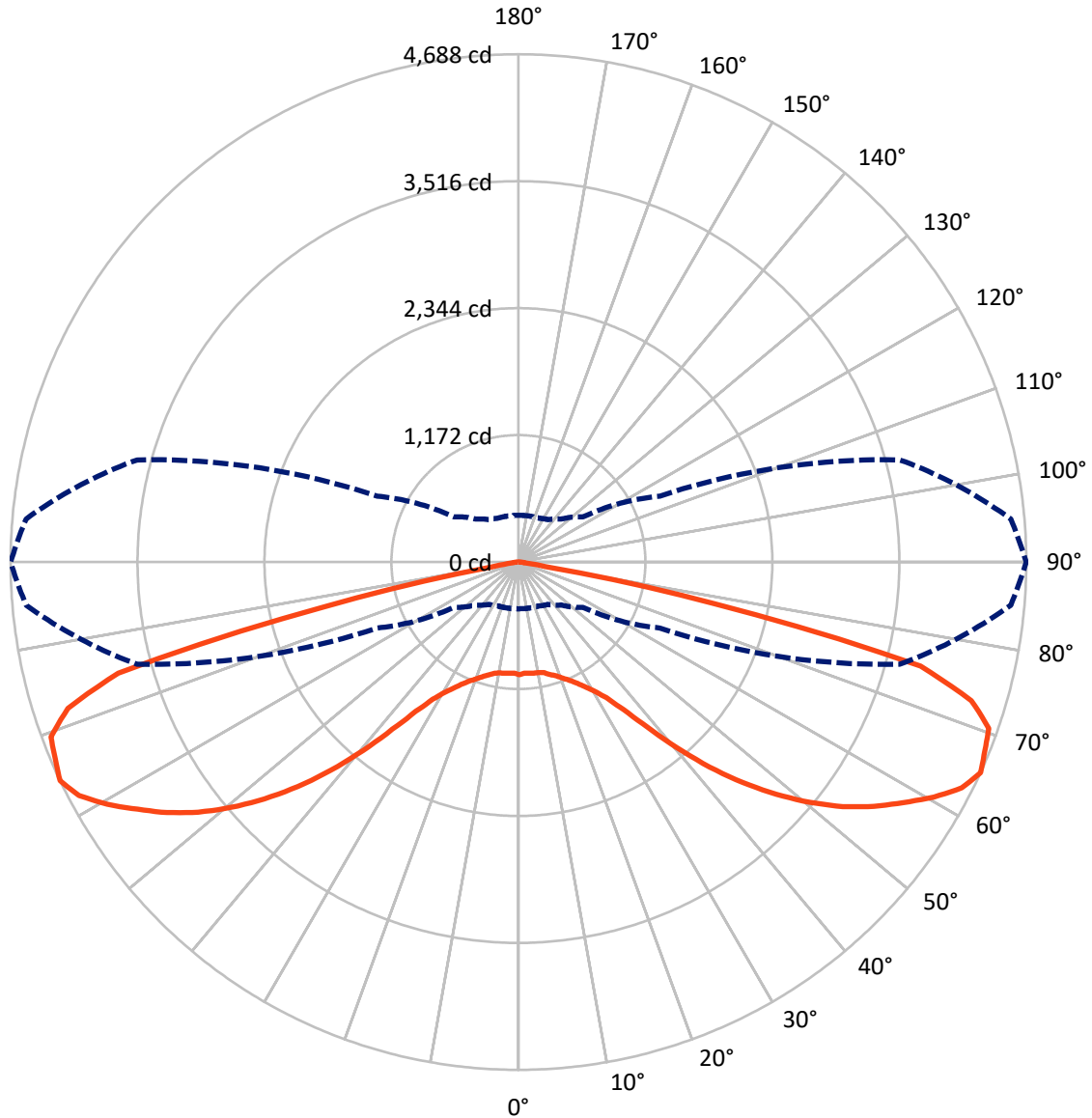
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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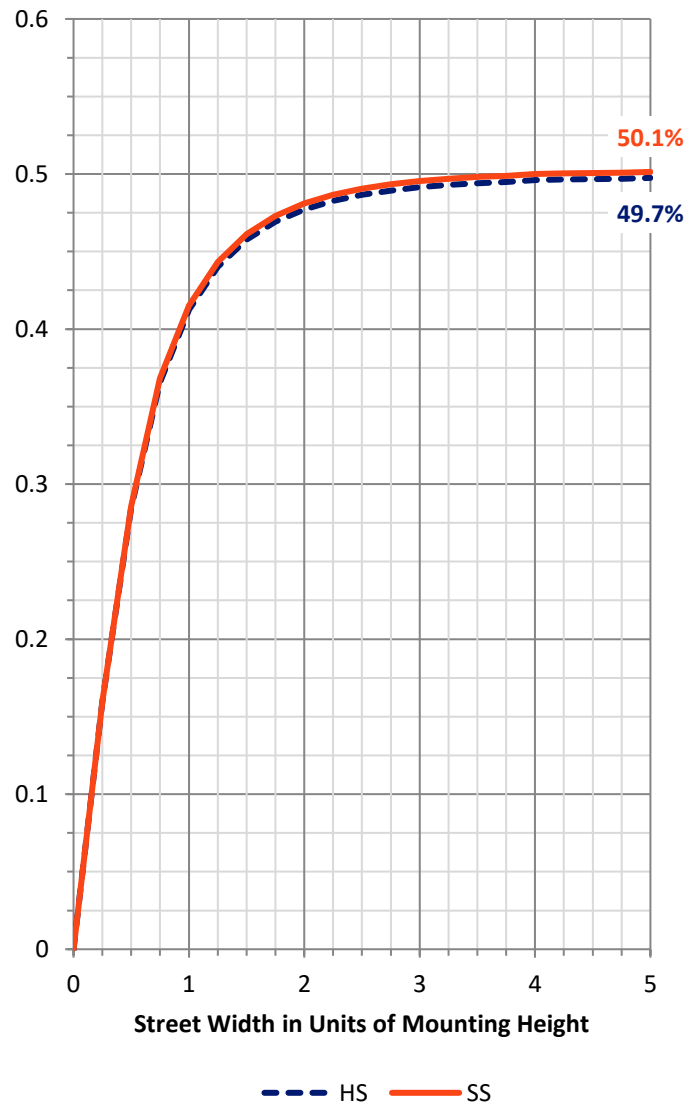
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3058.5	0.0	3058.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3058.5	0.0	3058.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6117.0	0.0	6117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.6
10°-20°	291.3	4.8
20°-30°	477.6	7.8
30°-40°	690.7	11.3
40°-50°	1011.3	16.5
50°-60°	1312.0	21.4
60°-70°	1387.5	22.7
70°-80°	814.5	13.3
80°-90°	33.5	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°	6117.0	100.0
0°-180°	6117.0	100.0



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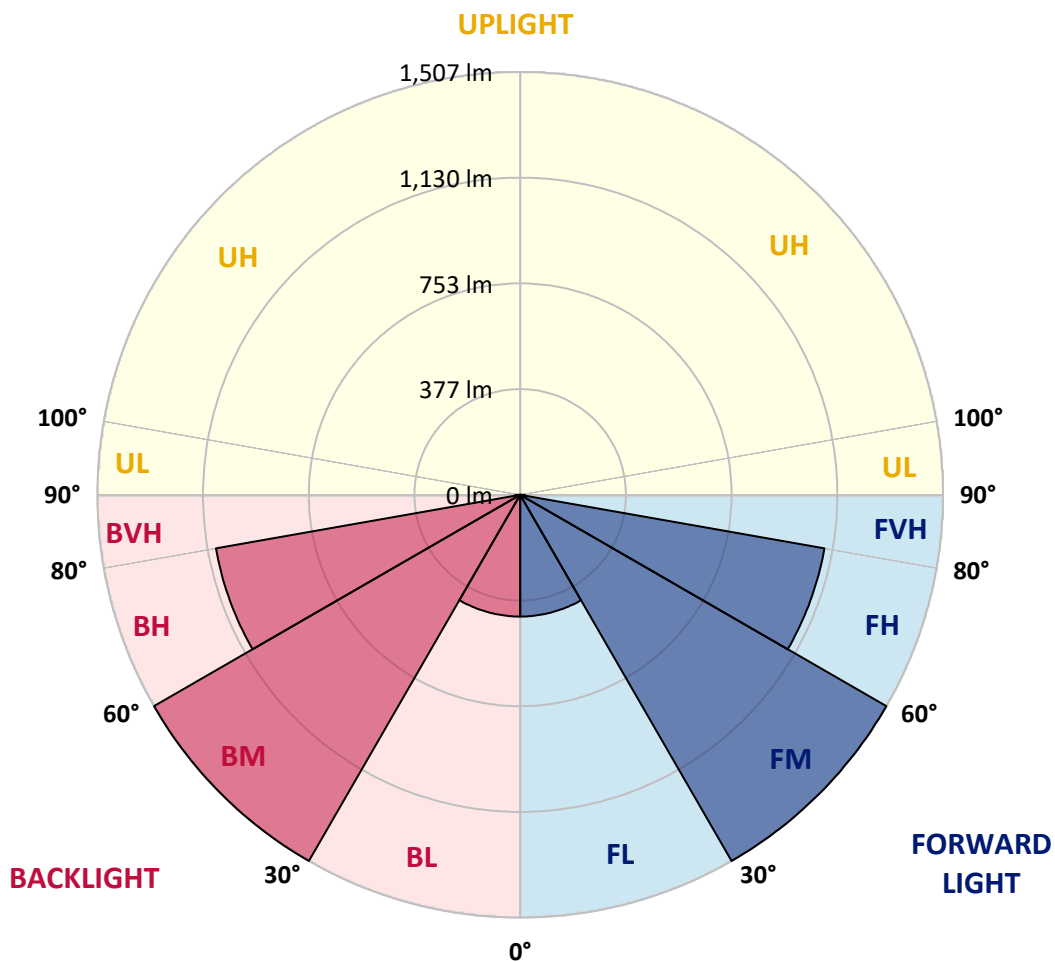
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.8	7.1			
FM	(30°-60°)	1507.0	24.6			
FH	(60°-80°)	1101.0	18.0			G1/1800
FVH	(80°-90°)	16.8	0.3			G1/100
BL	(0°-30°)	433.8	7.1	B1/500		
BM	(30°-60°)	1507.0	24.6	B2/2500		
BH	(60°-80°)	1101.0	18.0	B3/2500		G3/2500
BVH	(80°-90°)	16.8	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°	1041.2	1041.2	1041.2	1041.2	1041.2	1041.2	1041.2	1041.2	1041.2	1041.2	1041.2
2.5°	1051.2	1050.1	1044.3	1035.9	1033.2	1035.4	1034.8	1032.2	1032.2	1033.2	1026.4
5°	1044.9	1043.3	1036.4	1034.3	1034.8	1037.5	1036.9	1034.8	1035.9	1034.8	1029.5
7.5°	1033.8	1032.2	1028.0	1026.9	1025.9	1030.1	1034.3	1036.9	1040.1	1038.5	1034.8
10°	1023.2	1020.0	1020.6	1015.3	1017.4	1025.3	1029.5	1034.3	1039.1	1038.5	1037.5
12.5°	1007.4	1004.2	1005.8	1004.2	1011.6	1021.1	1033.8	1042.7	1048.0	1046.4	1048.0
15°	987.8	986.8	989.4	991.5	1004.7	1026.4	1040.1	1059.6	1071.3	1071.8	1075.5
17.5°	965.7	963.6	968.3	976.2	1000.5	1024.3	1058.6	1080.2	1097.1	1099.8	1102.9
20°	928.2	929.2	936.6	950.4	984.7	1027.4	1069.7	1102.4	1126.7	1133.0	1139.9
22.5°	881.2	883.8	897.6	926.1	970.4	1023.7	1081.8	1128.3	1163.1	1177.4	1181.6
25°	832.1	836.3	858.5	896.5	954.0	1022.2	1097.1	1158.4	1208.0	1230.7	1233.3
27.5°	788.3	792.0	820.5	869.0	938.7	1022.7	1110.9	1194.8	1261.9	1295.1	1300.4
30°	743.9	748.1	777.7	837.9	923.4	1021.6	1126.7	1236.0	1326.3	1373.8	1381.7
32.5°	705.9	710.1	740.7	803.6	904.4	1020.0	1145.7	1286.1	1403.9	1481.0	1491.5
35°	673.7	678.4	709.6	771.4	880.1	1020.6	1173.2	1354.8	1524.3	1651.5	1672.1
37.5°	646.8	651.5	679.0	741.3	855.3	1016.3	1206.4	1441.4	1683.7	1894.4	1932.4
40°	629.9	634.1	654.7	710.1	825.2	1006.8	1245.0	1537.5	1878.5	2185.8	2252.3
42.5°	612.4	617.2	634.1	681.6	793.0	992.6	1278.8	1634.1	2081.8	2491.5	2586.5
45°	593.4	596.6	615.1	657.9	761.3	970.4	1308.3	1726.5	2295.1	2802.0	2904.9
47.5°	577.6	579.2	594.5	634.1	728.1	937.7	1316.2	1805.7	2510.5	3104.0	3204.8
50°	567.0	564.4	578.7	613.0	696.9	892.3	1302.5	1864.8	2742.3	3392.2	3487.8
52.5°	550.7	550.1	561.2	592.4	667.4	840.0	1253.4	1893.3	2974.1	3662.0	3750.7
55°	535.4	535.4	544.3	568.6	636.2	786.2	1169.5	1881.7	3196.3	3917.6	3982.5
57.5°	513.2	512.7	520.1	542.2	599.8	735.5	1063.3	1827.8	3376.9	4154.1	4189.5
60°	491.5	491.0	495.2	512.1	564.9	681.1	949.8	1722.2	3555.9	4363.2	4405.4
62.5°	464.1	463.6	467.8	482.6	525.9	623.0	838.4	1593.4	3661.0	4483.5	4592.8
65°	431.4	431.9	437.2	446.7	477.3	560.7	728.1	1439.8	3643.5	4561.7	4687.9
67.5°	400.2	398.6	402.8	404.4	427.1	495.2	625.1	1317.8	3510.5	4575.4	4644.1
70°	361.7	359.5	359.5	353.2	369.1	418.7	528.5	1190.1	3132.5	4450.3	4606.6
72.5°	302.5	302.5	299.4	292.5	302.5	339.5	440.3	1047.5	2538.0	4178.9	4372.7
75°	188.5	190.1	196.9	218.1	232.8	256.1	349.0	882.8	2073.4	3476.7	3834.1
77.5°	96.6	98.7	101.4	101.9	105.6	110.3	166.3	494.2	1053.8	1732.3	1847.9
80°	24.3	24.8	59.7	66.5	71.3	73.4	61.2	164.7	273.0	255.5	249.7
82.5°	16.4	17.4	34.3	42.2	39.1	29.6	33.8	50.2	40.7	55.4	62.3
85°	9.0	9.0	15.3	16.4	16.9	19.0	16.9	16.4	18.5	35.4	41.2
87.5°	4.2	4.2	6.3	7.9	7.9	9.5	7.9	8.4	8.4	16.4	19.0
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)