

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: P233629

Luminaire Tested: **VRDN-C028-D-UNV-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233629
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-C028-D-UNV-T5-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9259 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

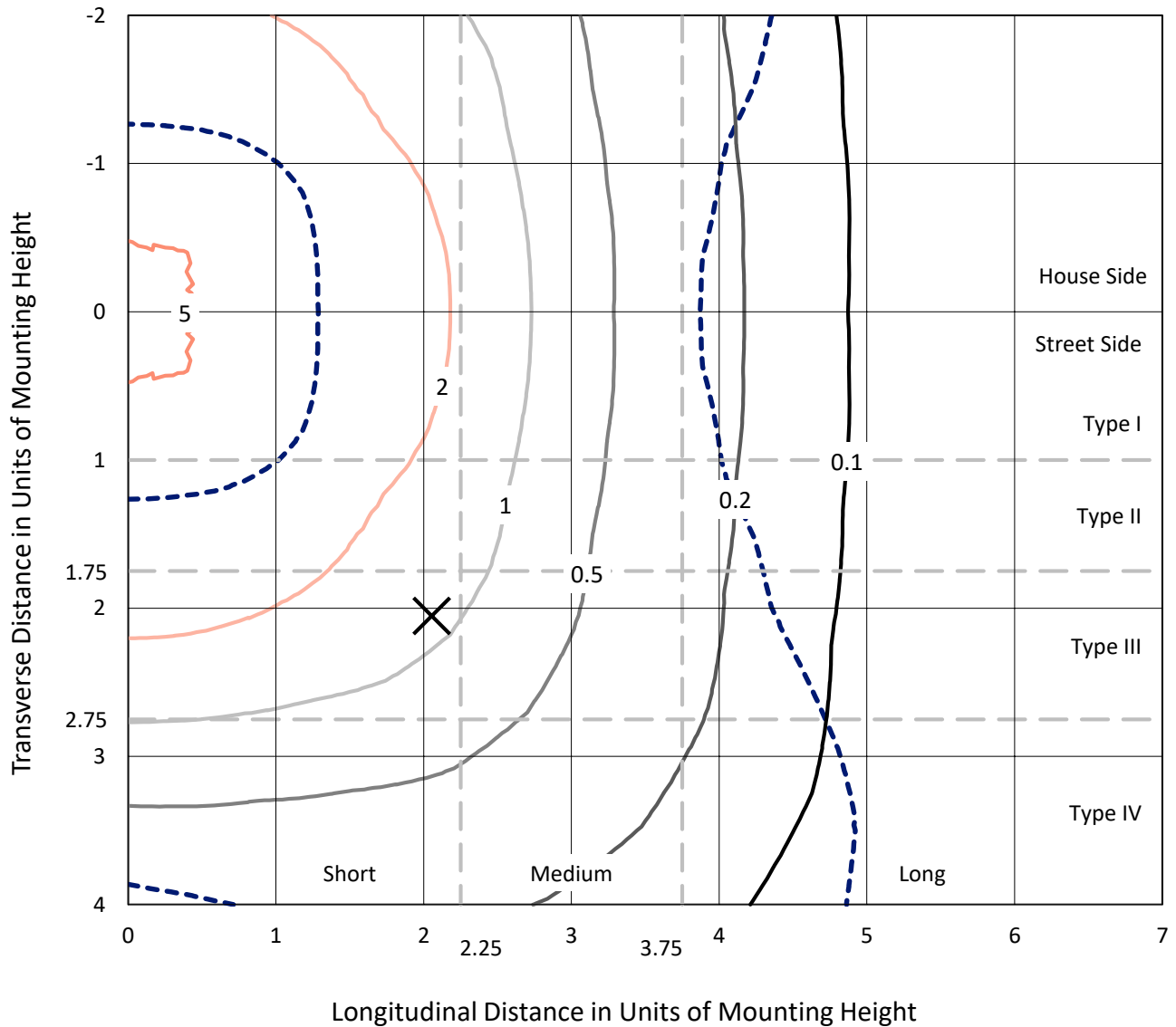
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

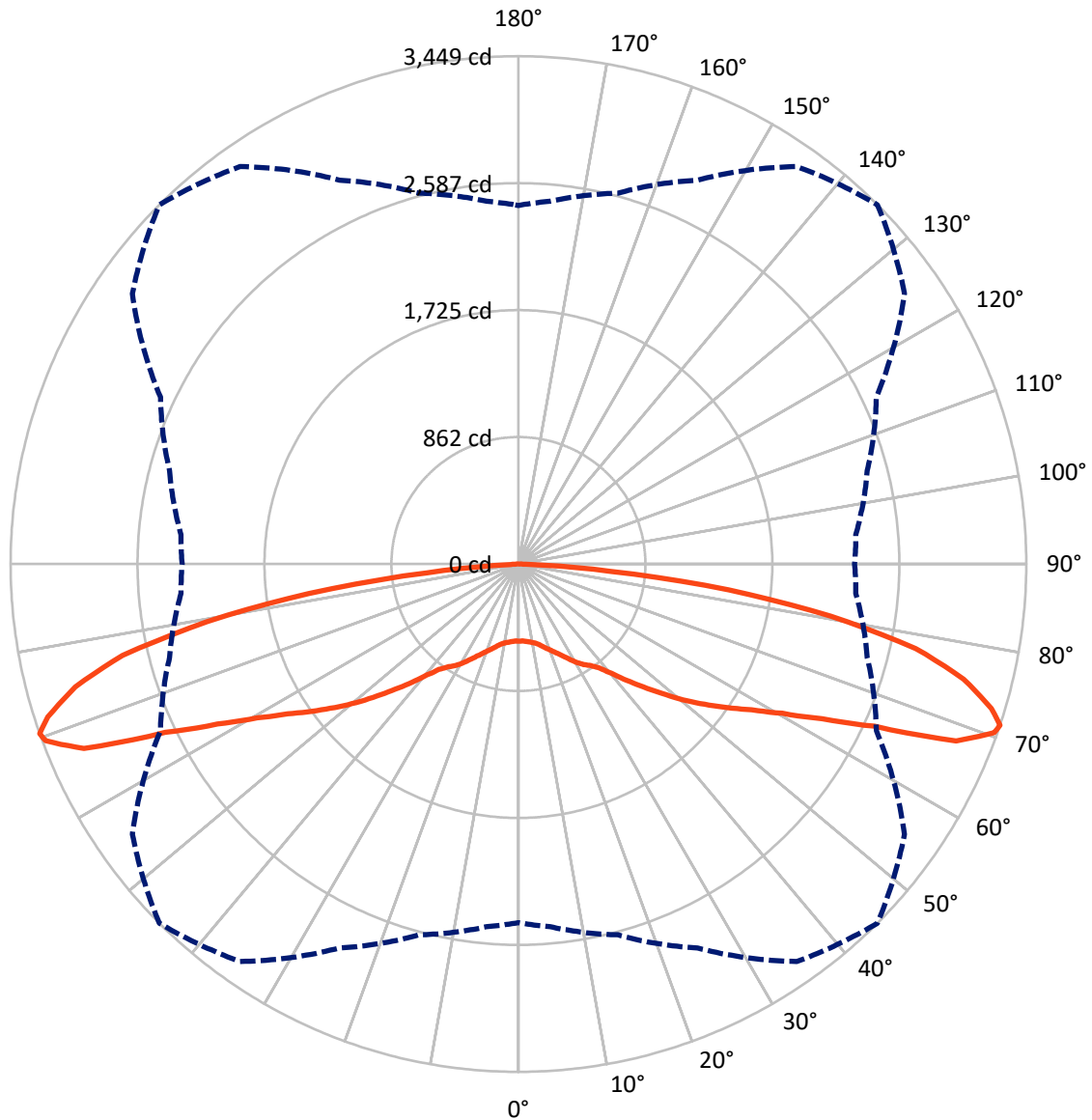
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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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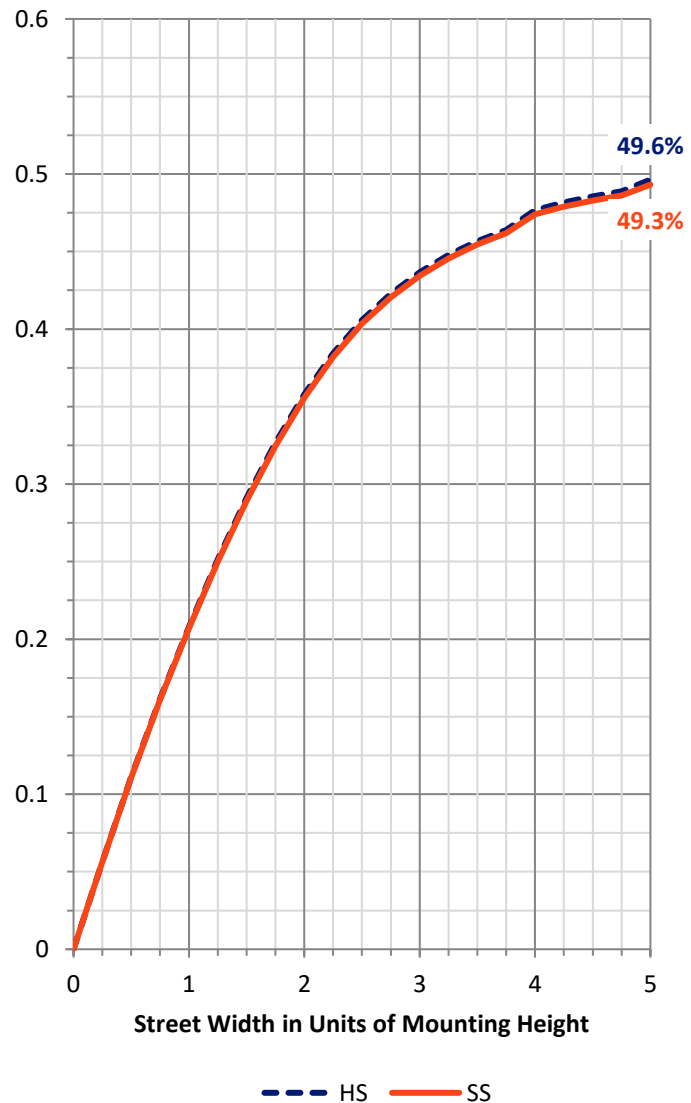
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4629.5	0.0	4629.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4629.5	0.0	4629.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9259.0	0.0	9259.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	0.6
10°-20°	163.7	1.8
20°-30°	315.5	3.4
30°-40°	533.6	5.8
40°-50°	970.5	10.5
50°-60°	1655.2	17.9
60°-70°	2654.2	28.7
70°-80°	2413.4	26.1
80°-90°	502.0	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°	9259.0	100.0
0°-180°	9259.0	100.0



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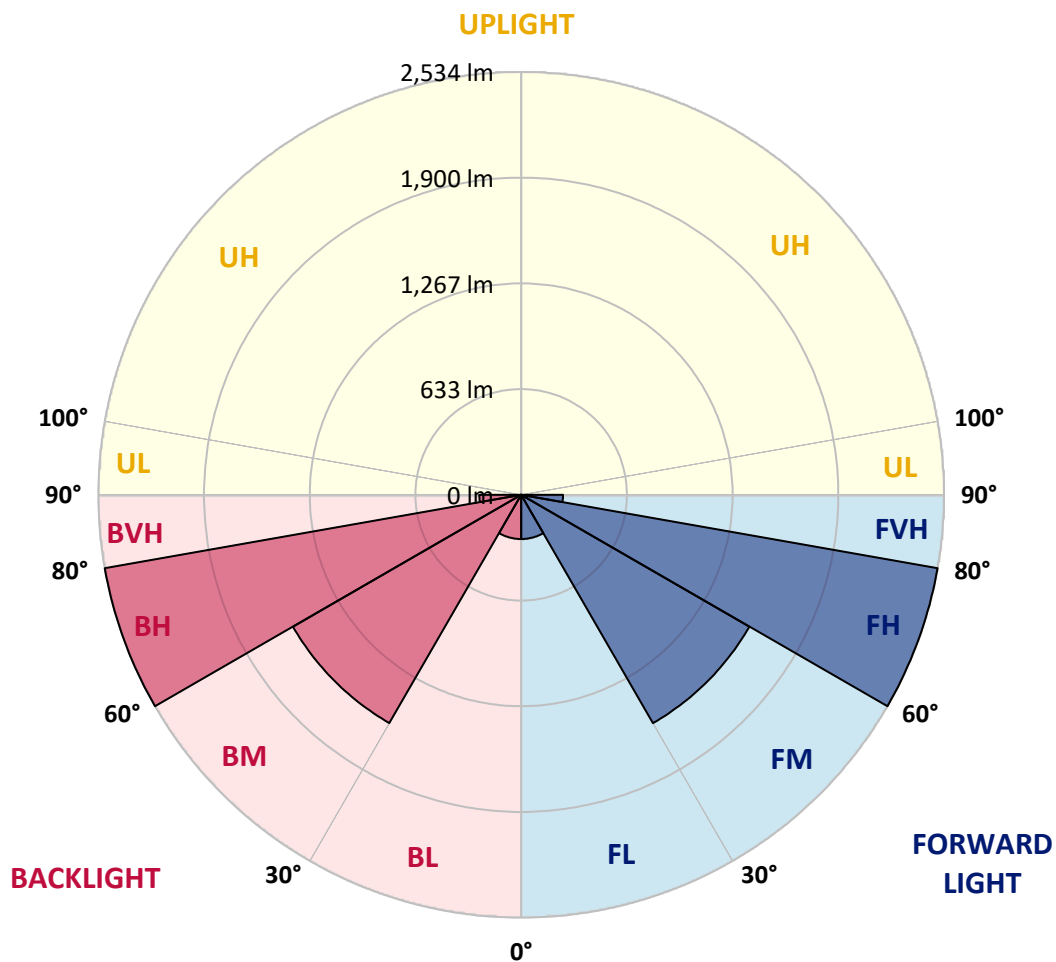
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.1	2.9			
FM	(30°-60°)	1579.6	17.1			
FH	(60°-80°)	2533.8	27.4			G2/5000
FVH	(80°-90°)	251.0	2.7			G3/500
BL	(0°-30°)	265.1	2.9	B1/500		
BM	(30°-60°)	1579.6	17.1	B2/2500		
BH	(60°-80°)	2533.8	27.4	B4/5000		G2/5000
BVH	(80°-90°)	251.0	2.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6
2.5°	529.5	529.5	528.7	524.6	525.4	522.9	521.3	522.1	522.9	522.9	522.1
5°	533.7	533.7	532.8	529.5	530.4	527.9	527.1	527.9	529.5	531.2	529.5
7.5°	541.9	541.1	539.4	536.1	536.1	534.5	532.8	533.7	535.3	536.1	535.3
10°	551.0	550.2	547.7	544.4	544.4	542.7	539.4	539.4	539.4	538.6	537.8
12.5°	560.9	560.1	557.6	554.3	556.8	554.3	551.8	551.0	548.5	546.9	546.0
15°	576.5	575.7	573.2	570.8	577.4	574.1	569.9	565.8	564.2	562.5	560.9
17.5°	595.5	594.7	593.0	591.4	599.6	599.6	592.2	584.8	585.6	583.1	581.5
20°	617.8	617.0	615.3	617.0	626.0	625.2	615.3	606.2	609.5	604.6	602.9
22.5°	645.8	644.2	641.7	644.2	657.4	654.9	642.5	634.3	636.8	634.3	632.6
25°	676.4	673.1	669.8	673.1	694.5	689.5	677.2	667.3	672.2	670.6	669.8
27.5°	706.0	702.7	700.3	697.8	730.8	730.0	713.5	703.6	709.3	710.2	711.0
30°	734.9	734.1	730.0	726.7	762.1	773.7	745.6	741.5	745.6	750.6	752.2
32.5°	773.7	772.0	767.9	762.1	786.1	814.1	782.8	786.1	792.7	802.5	801.7
35°	825.6	821.5	815.7	810.0	824.8	847.1	833.1	839.7	851.2	862.8	861.1
37.5°	880.9	880.1	874.3	860.3	876.8	896.6	892.5	904.8	924.6	947.7	944.4
40°	960.1	960.9	948.5	930.4	944.4	976.6	980.7	1006.3	1040.9	1073.9	1074.7
42.5°	1084.6	1082.2	1073.1	1047.5	1056.6	1080.5	1100.3	1139.9	1182.8	1216.6	1221.6
45°	1238.9	1235.6	1217.4	1177.0	1174.5	1191.9	1220.7	1271.9	1323.8	1356.8	1359.3
47.5°	1415.4	1403.8	1375.8	1323.0	1304.0	1312.3	1342.0	1398.9	1452.5	1488.8	1486.3
50°	1589.4	1590.2	1556.4	1487.1	1449.2	1449.2	1466.5	1525.9	1580.4	1614.2	1615.0
52.5°	1785.7	1778.3	1745.3	1662.0	1600.1	1582.8	1588.6	1644.7	1700.8	1737.1	1737.1
55°	1983.7	1976.3	1944.1	1851.7	1771.7	1721.4	1715.6	1768.4	1829.4	1864.1	1868.2
57.5°	2187.4	2182.5	2148.7	2048.0	1948.2	1868.2	1855.0	1915.2	1979.6	2014.2	2016.7
60°	2399.4	2392.8	2359.0	2280.6	2158.5	2057.9	2033.2	2094.2	2170.9	2216.3	2213.8
62.5°	2646.0	2637.8	2611.4	2510.7	2424.1	2315.3	2266.6	2336.7	2428.3	2481.1	2485.2
65°	2844.0	2847.3	2872.0	2857.2	2776.3	2657.6	2608.9	2721.1	2773.9	2782.9	2776.3
67.5°	2792.0	2804.4	2858.8	2981.7	3127.7	3206.1	3014.7	2880.3	2779.6	2721.1	2712.8
70°	2567.7	2576.7	2707.1	2908.3	3295.1	3428.8	3187.1	2749.1	2538.0	2447.2	2436.5
71°	2435.7	2472.8	2607.3	2877.0	3296.0	3449.4	3201.1	2682.3	2453.0	2300.4	2283.9
72.5°	2234.4	2266.6	2435.7	2759.0	3248.1	3360.3	3052.7	2525.6	2260.0	2133.0	2090.9
75°	1822.0	1881.4	2030.7	2456.3	3029.6	3123.6	2787.1	2227.8	1943.3	1805.5	1794.8
77.5°	1295.8	1336.2	1562.2	2021.6	2670.8	2759.0	2463.7	1873.2	1572.1	1444.3	1430.2
80°	720.1	760.5	998.9	1421.2	2062.0	2151.1	1885.5	1368.4	1068.1	932.0	876.0
82.5°	322.5	346.4	522.1	842.1	1323.0	1438.5	1145.7	752.2	514.7	364.6	334.9
85°	112.2	124.5	207.9	381.9	677.2	625.2	392.6	188.1	66.0	32.2	29.7
87.5°	21.4	23.9	45.4	106.4	110.5	51.1	16.5	12.4	12.4	13.2	13.2
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)