

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: P233416

Luminaire Tested: **VRDN-C016-D-UNV-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233416
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-T1-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4985 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

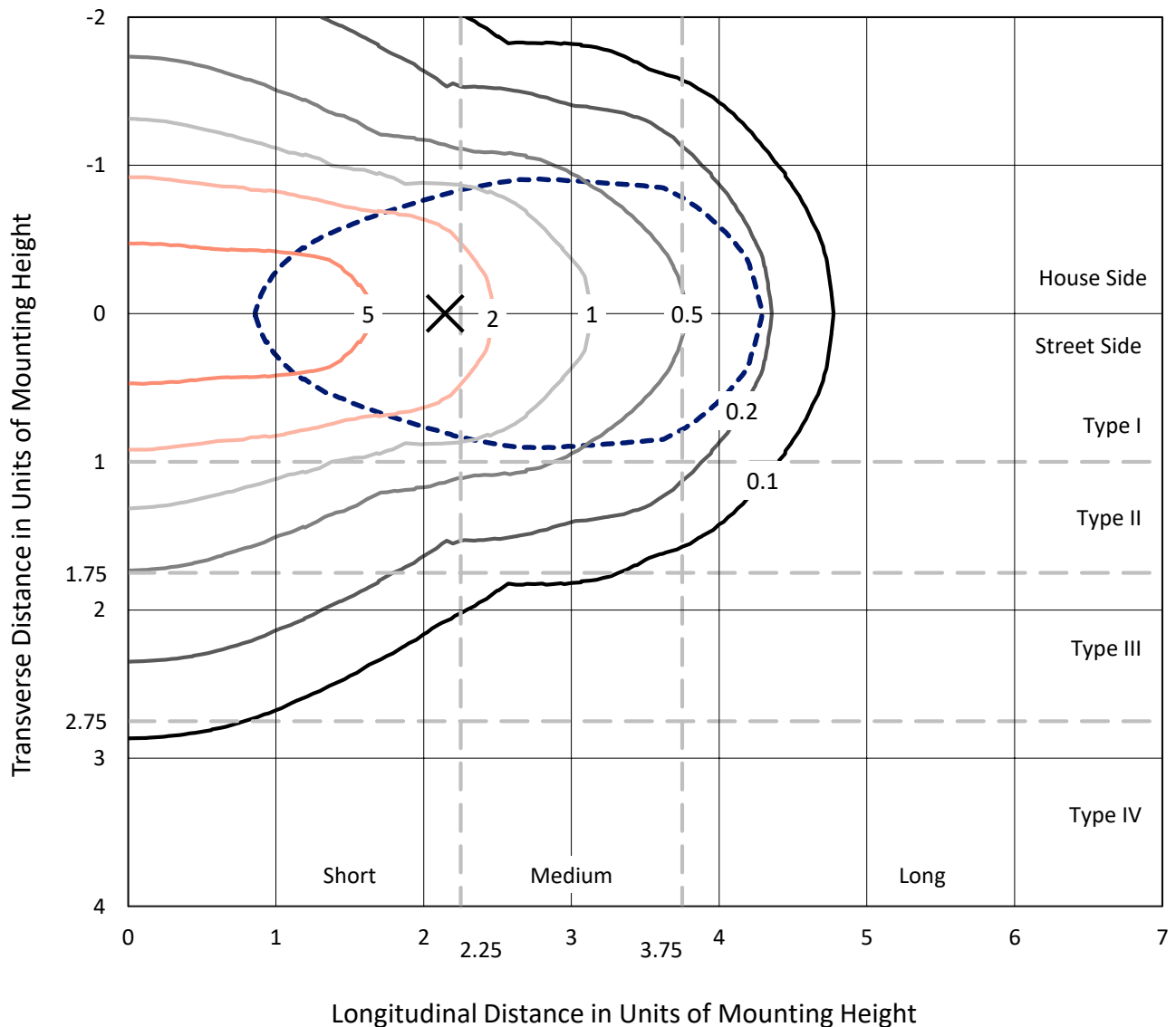
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P233416
 CATALOG NUMBER: VRDN-C016-D-UNV-T1-7030

Iso-Footcandle Lines of Horizontal Illumination

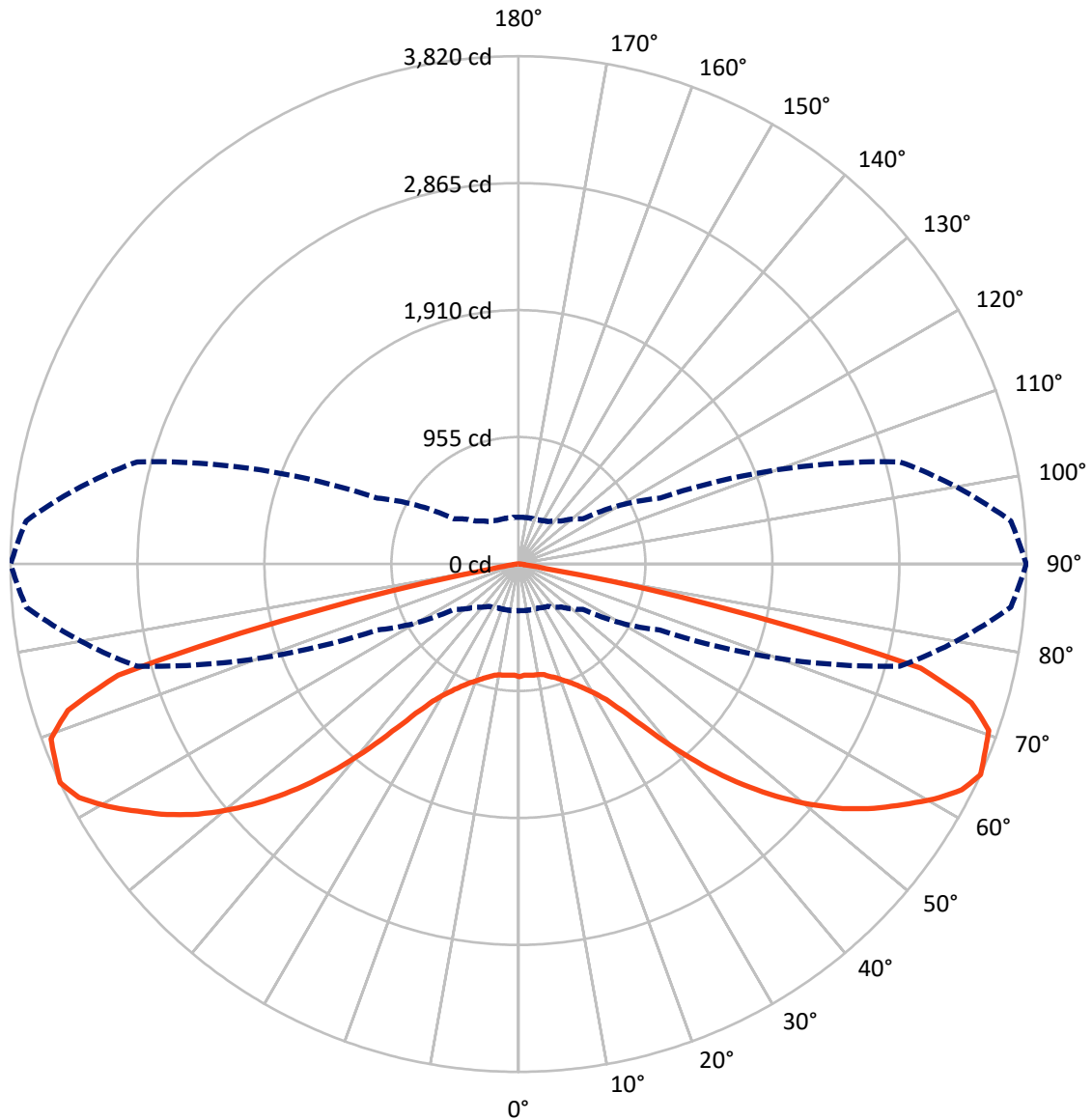
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P233416
CATALOG NUMBER: VRDN-C016-D-UNV-T1-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233416

CATALOG NUMBER: VRDN-C016-D-UNV-T1-7030

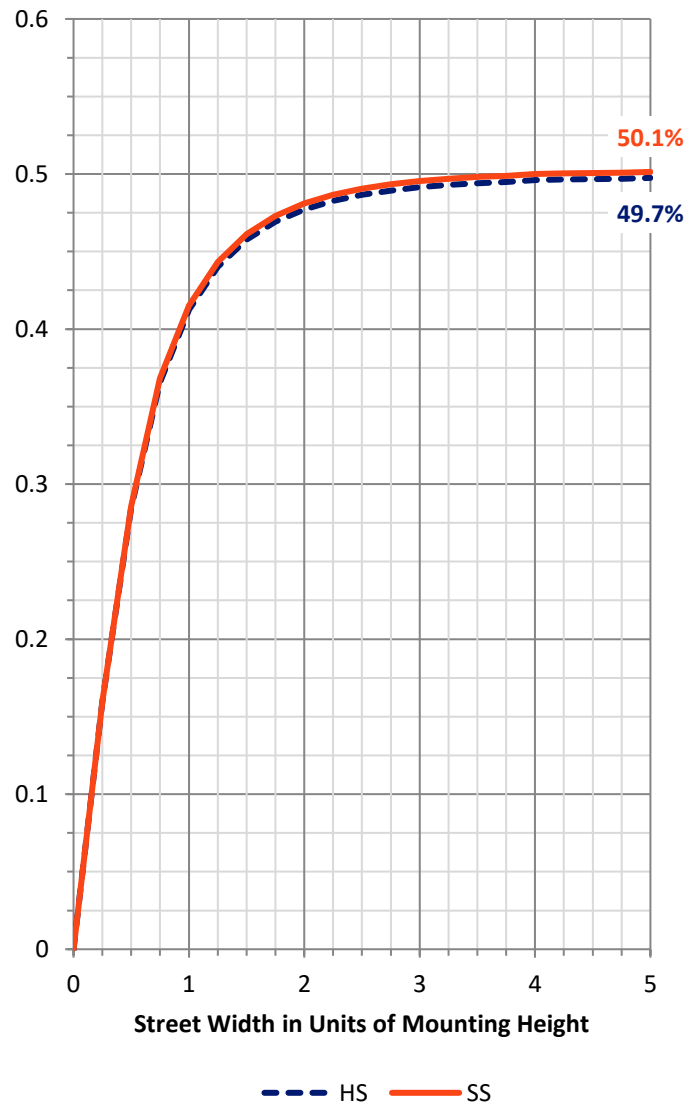
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.5	0.0	2492.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2492.5	0.0	2492.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4985.0	0.0	4985.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.6
10°-20°	237.4	4.8
20°-30°	389.3	7.8
30°-40°	562.9	11.3
40°-50°	824.2	16.5
50°-60°	1069.2	21.4
60°-70°	1130.7	22.7
70°-80°	663.8	13.3
80°-90°	27.3	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°	4985.0	100.0
0°-180°	4985.0	100.0



REPORT NUMBER: P233416

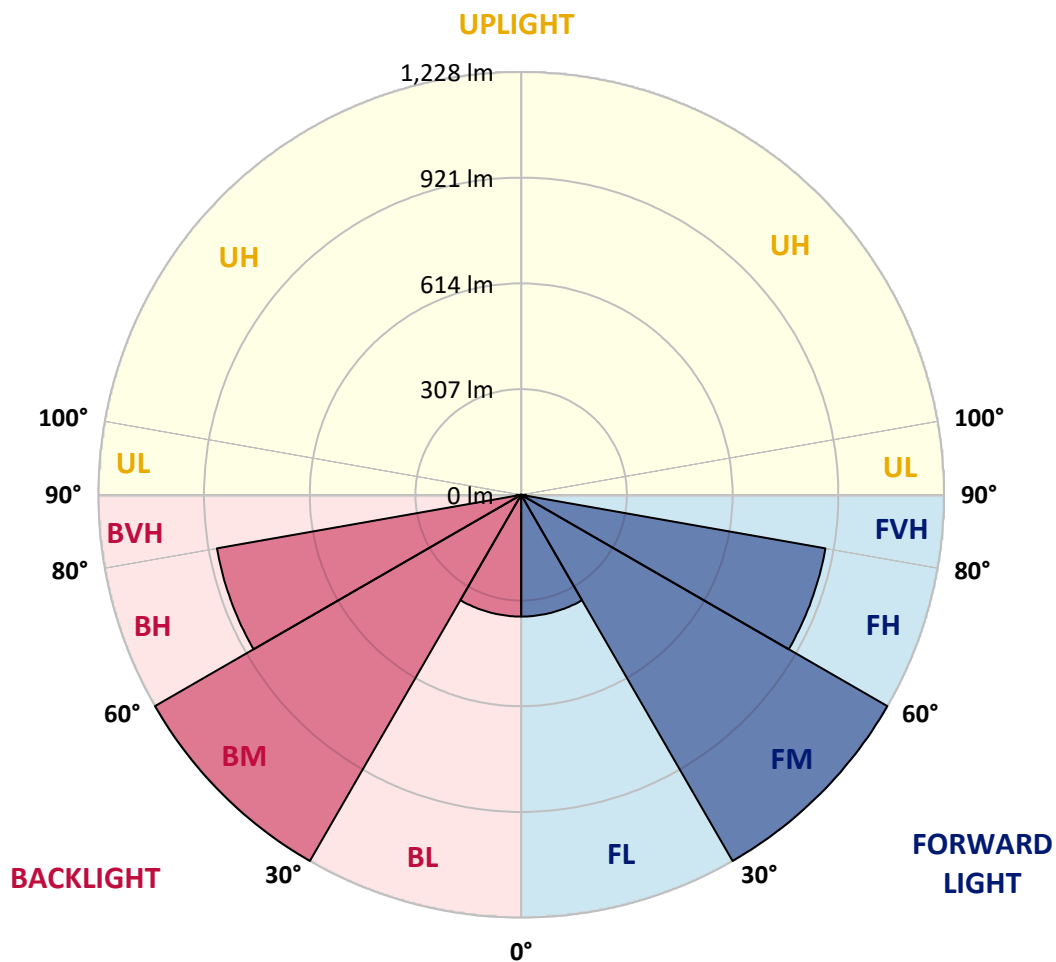
CATALOG NUMBER: VRDN-C016-D-UNV-T1-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.5	7.1			
FM	(30°-60°)	1228.1	24.6			
FH	(60°-80°)	897.2	18.0			G1/1800
FVH	(80°-90°)	13.7	0.3			G1/100
BL	(0°-30°)	353.5	7.1	B1/500		
BM	(30°-60°)	1228.1	24.6	B2/2500		
BH	(60°-80°)	897.2	18.0	B2/1000		G2/1000
BVH	(80°-90°)	13.7	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





REPORT NUMBER: P233416

CATALOG NUMBER: VRDN-C016-D-UNV-T1-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5
2.5°	856.7	855.8	851.1	844.2	842.0	843.8	843.3	841.2	841.2	842.0	836.4
5°	851.5	850.2	844.6	842.9	843.3	845.5	845.0	843.3	844.2	843.3	839.0
7.5°	842.5	841.2	837.7	836.9	836.0	839.5	842.9	845.0	847.6	846.3	843.3
10°	833.9	831.3	831.7	827.4	829.1	835.6	839.0	842.9	846.8	846.3	845.5
12.5°	821.0	818.4	819.7	818.4	824.4	832.1	842.5	849.8	854.1	852.8	854.1
15°	805.0	804.2	806.3	808.0	818.8	836.4	847.6	863.5	873.0	873.4	876.5
17.5°	787.0	785.2	789.1	795.6	815.4	834.7	862.7	880.3	894.1	896.2	898.8
20°	756.4	757.3	763.3	774.5	802.4	837.3	871.7	898.4	918.2	923.4	928.9
22.5°	718.1	720.3	731.5	754.7	790.8	834.3	881.6	919.5	947.9	959.5	962.9
25°	678.1	681.5	699.6	730.6	777.5	833.0	894.1	944.0	984.5	1003.0	1005.1
27.5°	642.4	645.4	668.6	708.2	765.0	833.4	905.3	973.7	1028.3	1055.4	1059.7
30°	606.2	609.7	633.8	682.8	752.5	832.6	918.2	1007.3	1080.8	1119.6	1126.0
32.5°	575.3	578.7	603.7	654.9	737.0	831.3	933.7	1048.1	1144.1	1206.9	1215.5
35°	549.0	552.9	578.3	628.6	717.3	831.7	956.1	1104.1	1242.2	1345.9	1362.7
37.5°	527.1	531.0	553.3	604.1	697.0	828.3	983.2	1174.6	1372.1	1543.8	1574.8
40°	513.3	516.8	533.5	578.7	672.5	820.5	1014.6	1252.9	1530.9	1781.3	1835.5
42.5°	499.1	503.0	516.8	555.5	646.3	808.9	1042.1	1331.7	1696.5	2030.4	2107.9
45°	483.6	486.2	501.3	536.1	620.4	790.8	1066.2	1407.0	1870.4	2283.4	2367.3
47.5°	470.7	472.0	484.5	516.8	593.3	764.2	1072.7	1471.5	2045.9	2529.5	2611.7
50°	462.1	460.0	471.6	499.5	568.0	727.2	1061.5	1519.7	2234.8	2764.5	2842.3
52.5°	448.8	448.3	457.4	482.8	543.9	684.6	1021.5	1542.9	2423.7	2984.3	3056.6
55°	436.3	436.3	443.6	463.4	518.5	640.7	953.0	1533.5	2604.8	3192.6	3245.5
57.5°	418.2	417.8	423.8	441.9	488.8	599.4	866.6	1489.6	2752.0	3385.3	3414.2
60°	400.6	400.1	403.6	417.4	460.4	555.0	774.1	1403.5	2897.9	3555.7	3590.2
62.5°	378.2	377.8	381.2	393.3	428.5	507.7	683.3	1298.5	2983.5	3653.8	3742.9
65°	351.5	352.0	356.3	364.0	389.0	456.9	593.3	1173.3	2969.3	3717.5	3820.3
67.5°	326.1	324.9	328.3	329.6	348.1	403.6	509.4	1073.9	2860.8	3728.7	3784.6
70°	294.7	293.0	293.0	287.8	300.8	341.2	430.7	969.8	2552.8	3626.7	3754.1
72.5°	246.5	246.5	244.0	238.4	246.5	276.7	358.8	853.7	2068.3	3405.6	3563.5
75°	153.6	154.9	160.5	177.7	189.7	208.7	284.4	719.4	1689.7	2833.3	3124.6
77.5°	78.7	80.5	82.6	83.0	86.1	89.9	135.5	402.7	858.8	1411.7	1505.9
80°	19.8	20.2	48.6	54.2	58.1	59.8	49.9	134.2	222.4	208.2	203.5
82.5°	13.3	14.2	28.0	34.4	31.8	24.1	27.5	40.9	33.1	45.2	50.8
85°	7.3	7.3	12.5	13.3	13.8	15.5	13.8	13.3	15.1	28.8	33.6
87.5°	3.4	3.4	5.2	6.5	6.5	7.7	6.5	6.9	6.9	13.3	15.5
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)