

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: CORELITE

Report Number: P183471

Luminaire Tested: **VB-WS-1L35-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26969)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VB-WS-1L35-1D-UNV-4-STD-DM8  
Description: CORELITE VERTECHS SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 80% UP / 20% DOWN.  
Light Source: (336)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2940.9 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

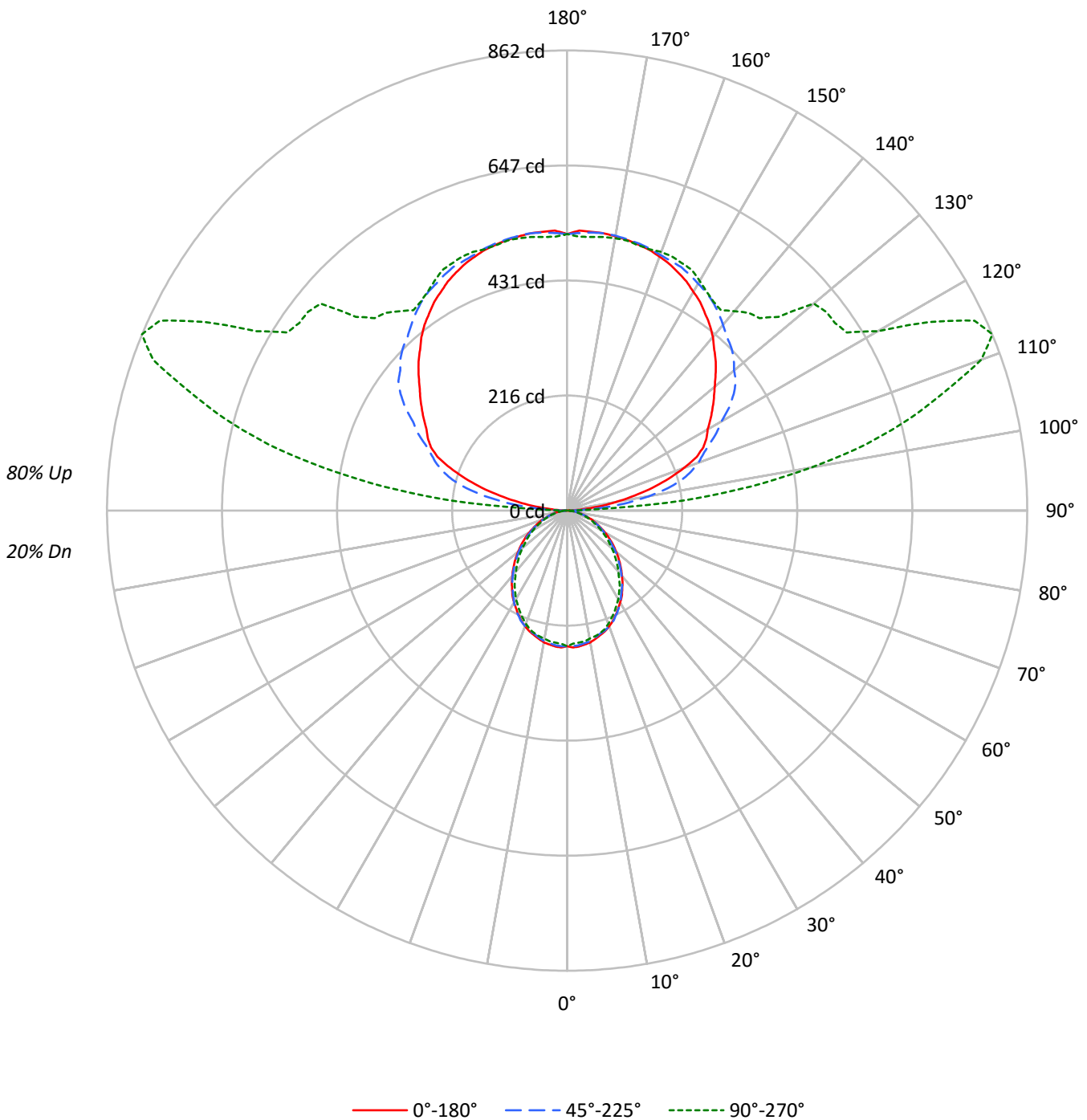
Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	80	81	77	74	71	58	57	55	41	40	39	26	25	24	17				
2	83	76	70	65	73	67	63	59	51	48	45	36	34	33	23	22	21	15				
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	12				
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	11				
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	9				
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8				
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7				
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8	6				
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2037	2037	2037
5°	2044	1961	1905
10°	2019	1877	1805
15°	1970	1775	1716
20°	1925	1698	1602
25°	1853	1591	1469
30°	1778	1470	1342
35°	1689	1340	1207
40°	1592	1215	1063
45°	1495	1084	939
50°	1393	962	816
55°	1296	836	709
60°	1188	714	599
65°	1077	604	491
70°	979	493	395
75°	842	377	298
80°	739	268	197
85°	585	163	104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.9	0.8
10°-20°	67.4	2.3
20°-30°	98.1	3.3
30°-40°	110.7	3.8
40°-50°	105.1	3.6
50°-60°	86.5	2.9
60°-70°	60.9	2.1
70°-80°	34.3	1.2
80°-90°	11.3	0.4
90°-100°	115.3	3.9
100°-110°	351.9	12.0
110°-120°	422.0	14.3
120°-130°	390.0	13.3
130°-140°	343.2	11.7
140°-150°	293.7	10.0
150°-160°	230.9	7.9
160°-170°	145.8	5.0
170°-180°	49.7	1.7
0°-30°	189.5	6.4
0°-40°	300.1	10.2
0°-60°	491.7	16.7
0°-90°	598.3	20.3
90°-120°	889.2	30.2
90°-150°	1916.1	65.2
90°-180°	2343.0	79.7
0°-180°	2940.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	256	252	253	252	248	24
15°	241	239	239	239	238	68
25°	215	213	216	210	209	99
35°	180	181	179	174	172	113
45°	140	141	137	131	129	108
55°	100	102	97	92	91	90
65°	64	65	62	58	57	63
75°	33	34	32	31	30	36
85°	11	12	11	10	8	11
90°	1	4	2	1	0	3
95°	32	41	76	188	221	39
105°	166	169	222	552	664	173
115°	282	282	293	576	842	274
125°	332	354	381	535	613	298
135°	394	404	434	477	510	304
145°	451	454	477	476	478	282
155°	492	488	504	507	511	227
165°	516	513	518	514	514	146
175°	524	522	523	519	514	50
180°	518	518	518	518	518	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	254.3	254.3	254.3	254.3	254.3
2.5°	256.7	253.1	254.3	253.1	249.6
5°	255.5	251.9	253.1	251.9	248.4
7.5°	253.1	249.6	250.7	249.6	247.2
10°	250.7	247.2	248.4	246.0	243.6
12.5°	246.0	243.6	243.6	241.3	241.3
15°	241.3	238.9	238.9	238.9	237.7
17.5°	236.5	233.0	235.4	235.4	233.0
20°	230.6	227.1	230.6	228.3	225.9
22.5°	223.5	221.2	224.7	220.0	217.6
25°	215.3	212.9	216.4	210.5	209.3
27.5°	207.0	205.8	208.2	202.2	199.9
30°	198.7	197.5	198.7	194.0	191.6
32.5°	190.4	189.2	188.1	183.3	181.0
35°	179.8	181.0	178.6	173.9	171.5
37.5°	170.3	171.5	169.1	163.2	159.7
40°	159.7	162.0	158.5	152.6	149.0
42.5°	150.2	151.4	147.8	141.9	139.6
45°	139.6	140.7	137.2	131.3	128.9
47.5°	130.1	131.3	127.7	121.8	119.5
50°	119.5	120.6	117.1	111.2	108.8
52.5°	110.0	111.2	106.4	101.7	99.3
55°	100.5	101.7	97.0	92.3	91.1
57.5°	91.1	92.3	87.5	84.0	81.6
60°	81.6	82.8	78.1	74.5	73.3
62.5°	72.1	73.3	69.8	66.2	65.1
65°	63.9	65.1	61.5	58.0	56.8
67.5°	55.6	56.8	53.2	50.9	49.7
70°	48.5	48.5	46.1	43.8	42.6
72.5°	40.2	41.4	39.0	36.7	35.5
75°	33.1	34.3	31.9	30.8	29.6
77.5°	27.2	28.4	26.0	24.8	23.7
80°	21.3	22.5	20.1	18.9	17.7
82.5°	15.4	16.6	15.4	14.2	13.0
85°	10.6	11.8	10.6	9.5	8.3
87.5°	4.7	7.1	4.7	4.7	3.5
90°	1.2	3.5	2.4	1.2	0.0
92.5°	11.8	16.6	24.8	42.6	46.1
95°	31.9	41.4	75.7	188.1	221.2
97.5°	60.3	71.0	115.9	294.5	347.7
100°	92.3	102.9	156.1	387.9	463.6
102.5°	128.9	137.2	192.8	474.3	573.6
105°	165.6	169.1	222.4	552.3	663.5
107.5°	199.9	202.2	243.6	611.5	742.8
110°	233.0	229.4	261.4	635.1	825.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	262.6	256.7	275.6	617.4	862.2
115°	281.5	281.5	293.3	576.0	842.1
117.5°	294.5	302.8	315.8	554.7	765.2
120°	304.0	325.3	333.5	546.4	671.8
122.5°	318.2	344.2	359.6	539.3	620.9
125°	332.3	353.6	380.8	534.6	612.7
127.5°	346.5	360.7	398.6	533.4	611.5
130°	360.7	372.6	408.0	512.1	603.2
132.5°	377.3	389.1	423.4	475.5	537.0
135°	393.8	404.5	434.1	476.6	509.8
137.5°	408.0	416.3	442.3	476.6	502.7
140°	424.6	430.5	454.2	467.2	487.3
142.5°	438.8	443.5	466.0	467.2	473.1
145°	450.6	454.2	476.6	475.5	477.8
147.5°	463.6	464.8	484.9	486.1	486.1
150°	473.1	473.1	490.8	496.7	496.7
152.5°	483.7	481.4	497.9	503.8	507.4
155°	492.0	488.5	503.8	507.4	510.9
157.5°	500.3	496.7	506.2	512.1	514.5
160°	506.2	502.7	509.8	513.3	515.7
162.5°	512.1	507.4	514.5	512.1	513.3
165°	515.7	513.3	518.0	514.5	514.5
167.5°	519.2	518.0	520.4	518.0	518.0
170°	521.6	520.4	522.8	519.2	518.0
172.5°	524.0	521.6	524.0	519.2	516.9
175°	524.0	521.6	522.8	519.2	514.5
177.5°	525.1	520.4	520.4	515.7	513.3
180°	518.0	518.0	518.0	518.0	518.0

(END OF REPORT)