

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: P213072

Luminaire Tested: **DSI-WD-20L835-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WD-20L835-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 1.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2095.5 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

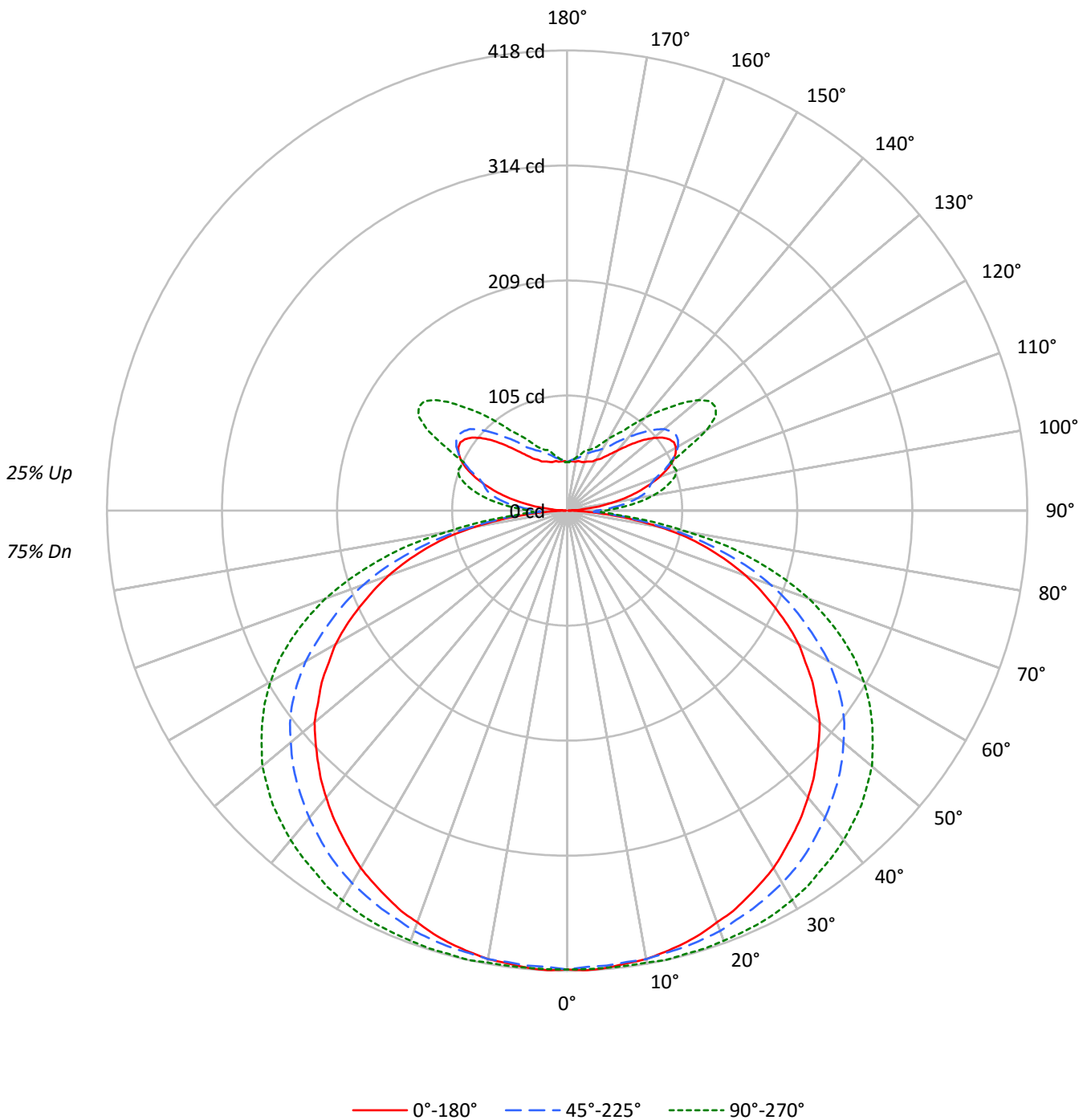
Input Watts (W): 15.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	102	97	92	88	97	92	88	84	83	80	77	75	73	70	68	66	64	60
2	92	83	76	70	87	79	73	67	72	67	62	65	61	57	58	55	52	49
3	83	72	64	57	79	69	61	55	62	56	51	56	51	47	51	47	43	40
4	76	63	55	48	71	60	52	46	55	48	43	50	44	39	45	40	36	33
5	69	56	47	40	65	54	45	39	49	42	36	44	38	34	40	35	31	28
6	64	50	41	35	60	48	40	34	44	37	31	40	34	29	36	31	27	24
7	59	45	36	30	56	43	35	29	39	32	27	36	30	26	32	27	24	21
8	54	41	32	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17
10	47	34	26	21	45	33	26	21	30	24	19	28	22	18	25	20	17	15

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

	0°	45°	90°
0°	1405	1405	1405
5°	1410	1403	1410
10°	1415	1415	1426
15°	1421	1432	1454
20°	1427	1457	1491
25°	1441	1484	1538
30°	1459	1520	1589
35°	1473	1560	1646
40°	1497	1603	1719
45°	1527	1657	1802
50°	1571	1718	1895
55°	1600	1791	1987
60°	1638	1849	2097
65°	1662	1887	2205
70°	1702	1940	2301
75°	1719	1923	2332
80°	1646	1768	2154
85°	1214	1577	1821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	1.9
10°-20°	116.5	5.6
20°-30°	184.8	8.8
30°-40°	237.8	11.3
40°-50°	269.4	12.9
50°-60°	272.5	13.0
60°-70°	238.1	11.4
70°-80°	160.3	7.6
80°-90°	51.2	2.4
90°-100°	46.3	2.2
100°-110°	82.5	3.9
110°-120°	105.1	5.0
120°-130°	114.7	5.5
130°-140°	82.6	3.9
140°-150°	47.9	2.3
150°-160°	27.2	1.3
160°-170°	14.5	0.7
170°-180°	4.4	0.2
0°-30°	341.0	16.3
0°-40°	578.8	27.6
0°-60°	1120.7	53.5
0°-90°	1570.2	74.9
90°-120°	233.9	11.2
90°-150°	479.1	22.9
90°-180°	525.0	25.1
0°-180°	2095.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	417	417	417	417	417	
5°	417	417	415	417	417	40
15°	407	408	411	416	417	115
25°	388	392	399	410	414	179
35°	358	364	379	394	400	225
45°	320	330	348	370	378	248
55°	272	284	305	327	338	243
65°	208	222	237	264	276	206
75°	132	140	148	170	179	138
85°	31	34	41	46	47	37
90°	1	16	26	34	35	2
95°	16	32	46	54	57	19
105°	67	66	76	91	96	70
115°	106	102	104	106	104	103
125°	113	113	120	149	164	100
135°	87	92	102	122	133	68
145°	60	67	74	84	88	38
155°	49	53	60	62	64	23
165°	46	48	51	53	54	13
175°	45	45	46	46	46	4
180°	44	44	44	44	44	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	416.9	416.9	416.9	416.9	416.9
2.5°	417.9	416.9	414.8	416.9	416.9
5°	416.9	416.9	414.8	416.9	416.9
7.5°	414.8	415.8	413.7	416.9	416.9
10°	413.7	413.7	413.7	416.9	416.9
12.5°	410.6	411.6	411.6	415.8	417.9
15°	407.4	408.5	410.6	415.8	416.9
17.5°	403.3	405.3	408.5	414.8	416.9
20°	398.0	401.2	406.4	413.7	415.8
22.5°	393.8	397.0	402.2	411.6	414.8
25°	387.5	391.7	399.1	409.5	413.7
27.5°	381.3	385.4	394.9	406.4	411.6
30°	375.0	380.2	390.7	403.3	408.5
32.5°	366.6	372.9	385.4	399.1	405.3
35°	358.2	364.5	379.2	393.8	400.1
37.5°	349.8	357.2	371.8	388.6	395.9
40°	340.4	347.7	364.5	383.4	390.7
42.5°	331.0	339.4	356.1	376.0	384.4
45°	320.5	329.9	347.7	369.7	378.1
47.5°	310.0	319.5	338.3	361.4	369.7
50°	299.6	309.0	327.8	350.9	361.4
52.5°	284.9	296.4	317.4	339.4	349.8
55°	272.3	283.8	304.8	326.8	338.3
57.5°	256.6	270.2	290.1	313.2	325.7
60°	243.0	254.5	274.4	298.5	311.1
62.5°	226.2	238.8	255.6	281.8	295.4
65°	208.4	222.1	236.7	263.9	276.5
67.5°	190.6	203.2	217.9	243.0	255.6
70°	172.8	184.3	196.9	222.1	233.6
72.5°	152.9	163.4	173.9	196.9	207.4
75°	132.0	140.4	147.7	169.7	179.1
77.5°	111.0	115.2	121.5	140.4	148.7
80°	84.8	88.0	91.1	106.8	111.0
82.5°	57.6	59.7	63.9	73.3	77.5
85°	31.4	33.5	40.8	46.1	47.1
87.5°	10.5	16.8	24.1	28.3	30.4
90°	1.0	15.7	26.2	33.5	34.6
92.5°	5.2	24.1	35.6	41.9	44.0
95°	15.7	32.5	46.1	54.5	56.6
97.5°	29.3	40.8	56.6	66.0	69.1
100°	41.9	48.2	64.9	76.5	79.6
102.5°	55.5	55.5	72.3	84.8	89.0
105°	67.0	66.0	76.5	91.1	96.4
107.5°	78.6	75.4	79.6	96.4	102.6
110°	89.0	84.8	84.8	97.4	105.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	98.5	93.2	95.3	97.4	104.7
115°	105.8	101.6	103.7	105.8	103.7
117.5°	111.0	107.9	111.0	126.7	123.6
120°	114.2	112.1	116.3	140.4	146.6
122.5°	115.2	114.2	119.4	146.6	160.3
125°	113.1	113.1	120.5	148.7	164.4
127.5°	108.9	111.0	118.4	145.6	163.4
130°	102.6	105.8	115.2	139.3	156.1
132.5°	95.3	99.5	108.9	130.9	145.6
135°	86.9	92.2	101.6	121.5	133.0
137.5°	78.6	84.8	94.3	111.0	121.5
140°	71.2	78.6	86.9	101.6	110.0
142.5°	64.9	72.3	80.7	92.2	98.5
145°	59.7	67.0	74.4	83.8	88.0
147.5°	55.5	62.8	68.1	78.6	81.7
150°	53.4	58.7	64.9	72.3	75.4
152.5°	50.3	55.5	61.8	66.0	69.1
155°	49.2	53.4	59.7	61.8	63.9
157.5°	48.2	51.3	57.6	59.7	60.7
160°	47.1	50.3	55.5	58.7	58.7
162.5°	46.1	49.2	53.4	56.6	57.6
165°	46.1	48.2	51.3	53.4	54.5
167.5°	46.1	47.1	49.2	51.3	51.3
170°	45.0	46.1	48.2	49.2	49.2
172.5°	45.0	46.1	47.1	48.2	47.1
175°	45.0	45.0	46.1	46.1	46.1
177.5°	45.0	45.0	45.0	45.0	44.0
180°	44.0	44.0	44.0	44.0	44.0

(END OF REPORT)