

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: P213086

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35734)  
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-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 1.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2095.6 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.43 / 1.52  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

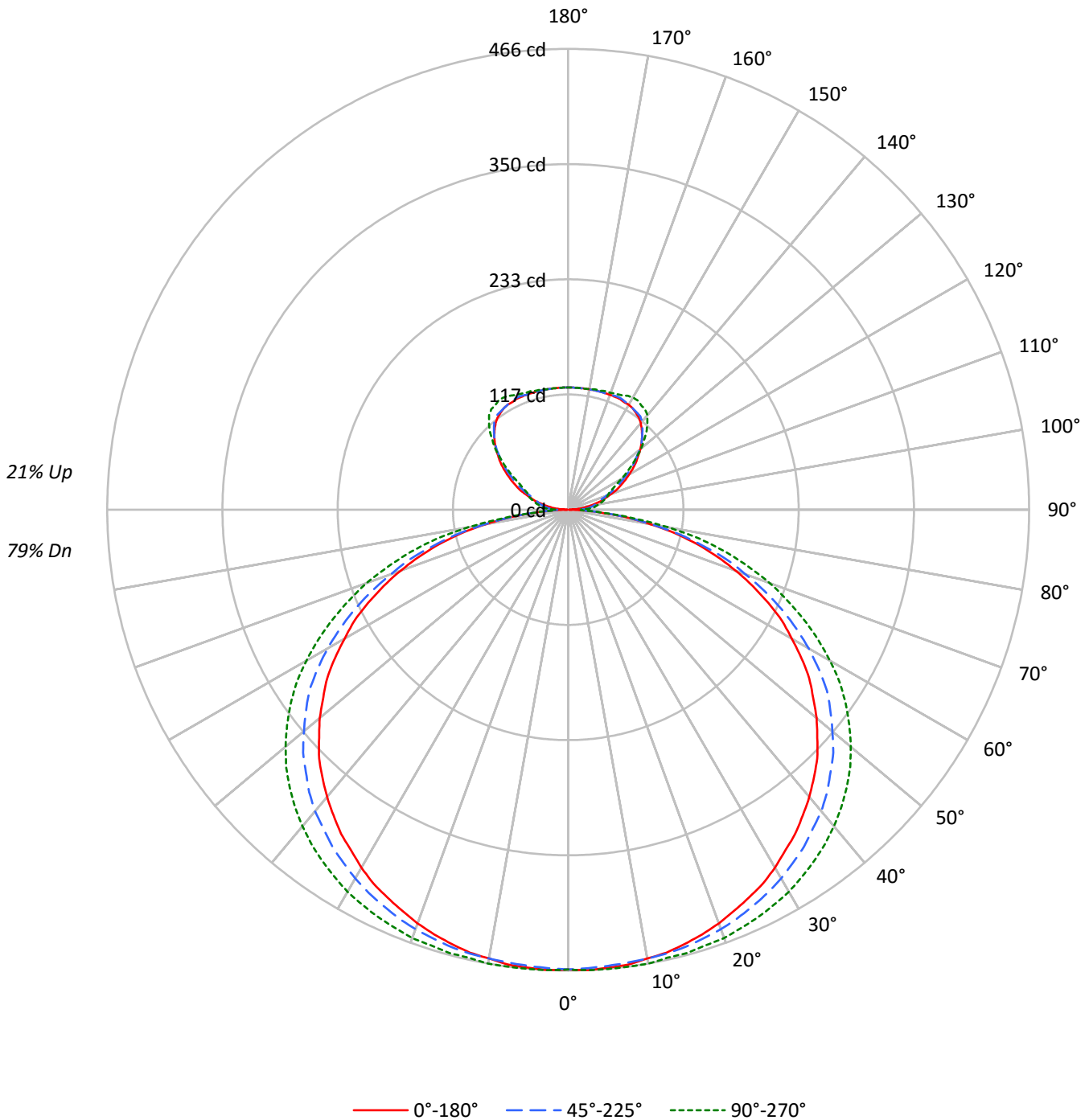
Input Watts (W): 15.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	82	82	82	79
1	103	98	94	90	98	94	90	86	86	83	80	78	76	73	71	69	68	64
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	84	74	65	59	80	71	63	57	64	58	53	59	54	50	54	50	46	43
4	77	65	56	49	73	62	54	48	57	50	45	52	46	42	47	43	39	36
5	70	57	48	42	67	55	47	41	51	44	38	46	40	36	42	37	34	31
6	65	51	42	36	61	49	41	35	45	38	33	42	36	31	38	33	29	27
7	60	46	38	31	57	44	36	31	41	34	29	38	32	27	35	30	26	23
8	56	42	34	28	53	40	32	27	37	30	26	34	28	24	32	27	23	21
9	52	38	30	25	49	37	29	24	34	27	23	32	26	22	29	24	20	18
10	48	35	27	22	46	34	27	22	31	25	21	29	23	19	27	22	18	17

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

	0°	45°	90°
0°	1567	1567	1567
5°	1573	1566	1577
10°	1577	1577	1595
15°	1586	1597	1619
20°	1596	1619	1653
25°	1608	1643	1690
30°	1626	1675	1736
35°	1646	1710	1784
40°	1668	1751	1838
45°	1697	1787	1897
50°	1718	1828	1955
55°	1748	1877	2012
60°	1758	1892	2061
65°	1779	1896	2096
70°	1775	1878	2136
75°	1759	1841	2140
80°	1646	1667	1991
85°	1214	1295	1338



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	2.1
10°-20°	129.8	6.2
20°-30°	204.6	9.8
30°-40°	260.7	12.4
40°-50°	290.3	13.9
50°-60°	284.8	13.6
60°-70°	237.9	11.4
70°-80°	153.3	7.3
80°-90°	43.1	2.1
90°-100°	20.8	1.0
100°-110°	36.6	1.7
110°-120°	53.5	2.6
120°-130°	72.0	3.4
130°-140°	82.4	3.9
140°-150°	76.7	3.7
150°-160°	57.8	2.8
160°-170°	35.2	1.7
170°-180°	11.8	0.6
0°-30°	378.7	18.1
0°-40°	639.5	30.5
0°-60°	1214.6	58.0
0°-90°	1648.8	78.7
90°-120°	111.0	5.3
90°-150°	342.0	16.3
90°-180°	447.0	21.3
0°-180°	2095.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	465	465	463	466	466	44
15°	455	457	458	462	464	129
25°	433	436	442	451	455	200
35°	400	404	416	428	434	250
45°	356	361	375	392	398	274
55°	298	304	320	334	342	265
65°	223	228	238	256	263	220
75°	135	137	141	157	164	142
85°	31	32	34	36	35	38
90°	1	7	10	13	13	3
95°	10	16	21	24	26	11
105°	35	32	32	37	38	36
115°	59	58	53	50	49	58
125°	84	82	81	79	79	75
135°	106	104	106	110	112	81
145°	119	118	120	127	129	75
155°	124	124	125	127	128	57
165°	124	124	124	125	125	35
175°	124	124	124	124	124	12
180°	124	124	124	124	124	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	465.0	465.0	465.0	465.0	465.0
2.5°	466.1	466.1	464.0	466.1	466.1
5°	465.0	465.0	463.0	466.1	466.1
7.5°	464.0	464.0	461.9	466.1	466.1
10°	460.9	461.9	460.9	465.0	466.1
12.5°	458.8	459.8	459.8	464.0	464.0
15°	454.6	456.7	457.7	461.9	464.0
17.5°	450.4	452.5	454.6	459.8	461.9
20°	445.1	447.2	451.4	457.7	460.9
22.5°	438.9	442.0	447.2	454.6	457.7
25°	432.6	435.7	442.0	451.4	454.6
27.5°	426.3	429.4	436.8	446.2	450.4
30°	417.9	422.1	430.5	441.0	446.2
32.5°	408.5	413.7	423.2	434.7	439.9
35°	400.1	404.3	415.8	428.4	433.6
37.5°	389.6	394.9	406.4	421.1	426.3
40°	379.2	385.4	398.0	411.6	417.9
42.5°	367.6	372.9	387.5	402.2	408.5
45°	356.1	361.4	375.0	391.7	398.0
47.5°	341.5	348.8	363.5	380.2	386.5
50°	327.8	334.1	348.8	366.6	372.9
52.5°	312.1	320.5	334.1	350.9	358.2
55°	297.5	303.7	319.5	334.1	342.5
57.5°	279.7	287.0	300.6	316.3	325.7
60°	260.8	268.1	280.7	296.4	305.8
62.5°	244.0	248.2	259.8	276.5	284.9
65°	223.1	228.3	237.8	255.6	262.9
67.5°	202.1	206.3	214.7	232.5	239.9
70°	180.2	184.3	190.6	208.4	216.8
72.5°	158.2	161.3	168.6	183.3	190.6
75°	135.1	137.2	141.4	157.1	164.4
77.5°	111.0	111.0	115.2	128.8	136.2
80°	84.8	84.8	85.9	98.5	102.6
82.5°	58.7	56.6	58.7	66.0	67.0
85°	31.4	32.5	33.5	35.6	34.6
87.5°	11.5	13.6	14.7	13.6	13.6
90°	1.0	7.3	10.5	12.6	12.6
92.5°	5.2	12.6	17.8	18.9	19.9
95°	10.5	15.7	20.9	24.1	26.2
97.5°	16.8	17.8	24.1	28.3	28.3
100°	22.0	22.0	27.2	31.4	31.4
102.5°	28.3	27.2	30.4	33.5	34.6
105°	34.6	32.5	32.5	36.7	37.7
107.5°	39.8	38.8	35.6	39.8	40.8
110°	46.1	45.0	40.8	41.9	42.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.4	51.3	47.1	45.0	45.0
115°	58.7	57.6	53.4	50.3	49.2
117.5°	64.9	62.8	59.7	56.6	54.5
120°	71.2	69.1	66.0	63.9	61.8
122.5°	77.5	76.5	73.3	71.2	70.2
125°	83.8	81.7	80.7	78.6	78.6
127.5°	89.0	88.0	86.9	86.9	86.9
130°	95.3	93.2	94.3	94.3	96.4
132.5°	100.6	98.5	100.6	102.6	103.7
135°	105.8	103.7	105.8	110.0	112.1
137.5°	110.0	108.9	111.0	116.3	118.4
140°	114.2	113.1	116.3	121.5	124.6
142.5°	117.3	116.3	119.4	124.6	127.8
145°	119.4	118.4	120.5	126.7	128.8
147.5°	121.5	120.5	121.5	128.8	130.9
150°	122.5	122.5	122.5	128.8	130.9
152.5°	122.5	122.5	123.6	126.7	129.9
155°	123.6	123.6	124.6	126.7	127.8
157.5°	123.6	123.6	124.6	125.7	126.7
160°	123.6	123.6	123.6	125.7	125.7
162.5°	123.6	123.6	123.6	124.6	125.7
165°	123.6	123.6	123.6	124.6	124.6
167.5°	123.6	123.6	123.6	124.6	124.6
170°	123.6	123.6	123.6	123.6	123.6
172.5°	123.6	123.6	123.6	123.6	123.6
175°	123.6	123.6	123.6	123.6	123.6
177.5°	123.6	123.6	123.6	123.6	123.6
180°	123.6	123.6	123.6	123.6	123.6

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