

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: P35733

Luminaire Tested: **DSI-WD-20L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P35733  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WD-20L830-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 1.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2000.7 lumens  
Efficiency: N/A  
Efficacy: 130.8 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

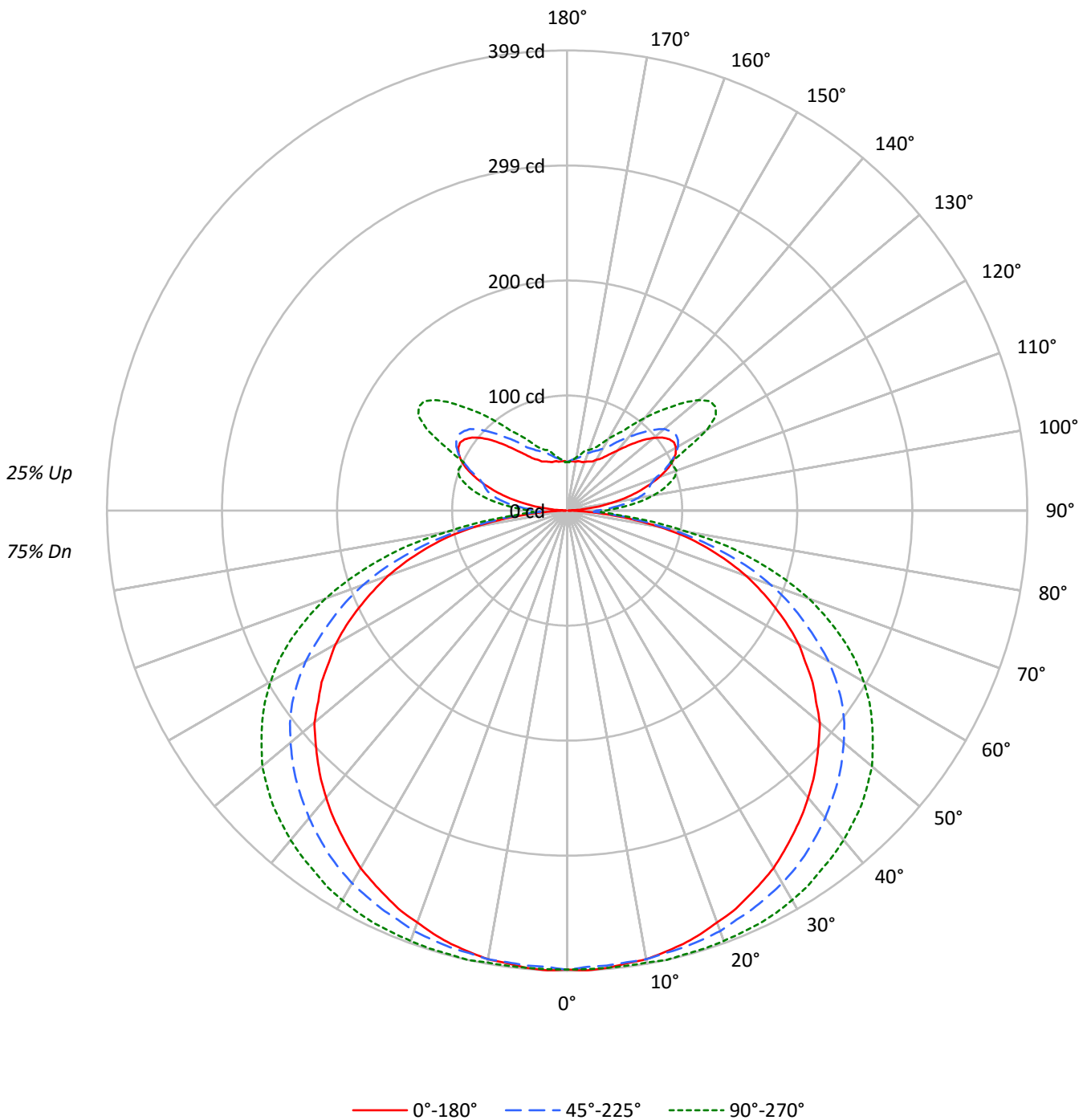
Input Watts (W): 15.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1341	1341	1341
5°	1346	1339	1346
10°	1352	1352	1362
15°	1357	1367	1388
20°	1363	1391	1424
25°	1376	1417	1469
30°	1393	1451	1517
35°	1407	1489	1571
40°	1430	1531	1641
45°	1458	1582	1720
50°	1499	1641	1809
55°	1527	1710	1898
60°	1563	1766	2002
65°	1587	1802	2105
70°	1626	1852	2197
75°	1640	1836	2226
80°	1572	1688	2057
85°	1160	1508	1740



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.9	1.9
10°-20°	111.2	5.6
20°-30°	176.5	8.8
30°-40°	227.0	11.3
40°-50°	257.3	12.9
50°-60°	260.1	13.0
60°-70°	227.3	11.4
70°-80°	153.0	7.6
80°-90°	48.9	2.4
90°-100°	44.2	2.2
100°-110°	78.8	3.9
110°-120°	100.4	5.0
120°-130°	109.5	5.5
130°-140°	78.8	3.9
140°-150°	45.8	2.3
150°-160°	26.0	1.3
160°-170°	13.9	0.7
170°-180°	4.2	0.2
0°-30°	325.6	16.3
0°-40°	552.6	27.6
0°-60°	1070.0	53.5
0°-90°	1499.1	74.9
90°-120°	223.3	11.2
90°-150°	457.4	22.9
90°-180°	502.0	25.1
0°-180°	2000.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	398	398	396	398	398	38
15°	389	390	392	397	398	110
25°	370	374	381	391	395	171
35°	342	348	362	376	382	214
45°	306	315	332	353	361	236
55°	260	271	291	312	323	232
65°	199	212	226	252	264	197
75°	126	134	141	162	171	132
85°	30	32	39	44	45	35
90°	1	15	25	32	33	2
95°	15	31	44	52	54	18
105°	64	63	73	87	92	67
115°	101	97	99	101	99	99
125°	108	108	115	142	157	96
135°	83	88	97	116	127	65
145°	57	64	71	80	84	37
155°	47	51	57	59	61	22
165°	44	46	49	51	52	12
175°	43	43	44	44	44	4
180°	42	42	42	42	42	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	398	398	398	398	398
2.5°	399	398	396	398	398
5°	398	398	396	398	398
7.5°	396	397	395	398	398
10°	395	395	395	398	398
12.5°	392	393	393	397	399
15°	389	390	392	397	398
17.5°	385	387	390	396	398
20°	380	383	388	395	397
22.5°	376	379	384	393	396
25°	370	374	381	391	395
27.5°	364	368	377	388	393
30°	358	363	373	385	390
32.5°	350	356	368	381	387
35°	342	348	362	376	382
37.5°	334	341	355	371	378
40°	325	332	348	366	373
42.5°	316	324	340	359	367
45°	306	315	332	353	361
47.5°	296	305	323	345	353
50°	286	295	313	335	345
52.5°	272	283	303	324	334
55°	260	271	291	312	323
57.5°	245	258	277	299	311
60°	232	243	262	285	297
62.5°	216	228	244	269	282
65°	199	212	226	252	264
67.5°	182	194	208	232	244
70°	165	176	188	212	223
72.5°	146	156	166	188	198
75°	126	134	141	162	171
77.5°	106	110	116	134	142
80°	81	84	87	102	106
82.5°	55	57	61	70	74
85°	30	32	39	44	45
87.5°	10	16	23	27	29
90°	1	15	25	32	33
92.5°	5	23	34	40	42
95°	15	31	44	52	54
97.5°	28	39	54	63	66
100°	40	46	62	73	76
102.5°	53	53	69	81	85
105°	64	63	73	87	92
107.5°	75	72	76	92	98
110°	85	81	81	93	101



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94	89	91	93	100
115°	101	97	99	101	99
117.5°	106	103	106	121	118
120°	109	107	111	134	140
122.5°	110	109	114	140	153
125°	108	108	115	142	157
127.5°	104	106	113	139	156
130°	98	101	110	133	149
132.5°	91	95	104	125	139
135°	83	88	97	116	127
137.5°	75	81	90	106	116
140°	68	75	83	97	105
142.5°	62	69	77	88	94
145°	57	64	71	80	84
147.5°	53	60	65	75	78
150°	51	56	62	69	72
152.5°	48	53	59	63	66
155°	47	51	57	59	61
157.5°	46	49	55	57	58
160°	45	48	53	56	56
162.5°	44	47	51	54	55
165°	44	46	49	51	52
167.5°	44	45	47	49	49
170°	43	44	46	47	47
172.5°	43	44	45	46	45
175°	43	43	44	44	44
177.5°	43	43	43	43	42
180°	42	42	42	42	42

(END OF REPORT)