

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: P213085

Luminaire Tested: **DSI-WD-60L830-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213085  
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-60L830-1D-UNV-4-STD-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 5.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5771.7 lumens  
Efficiency: N/A  
Efficacy: 123.6 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

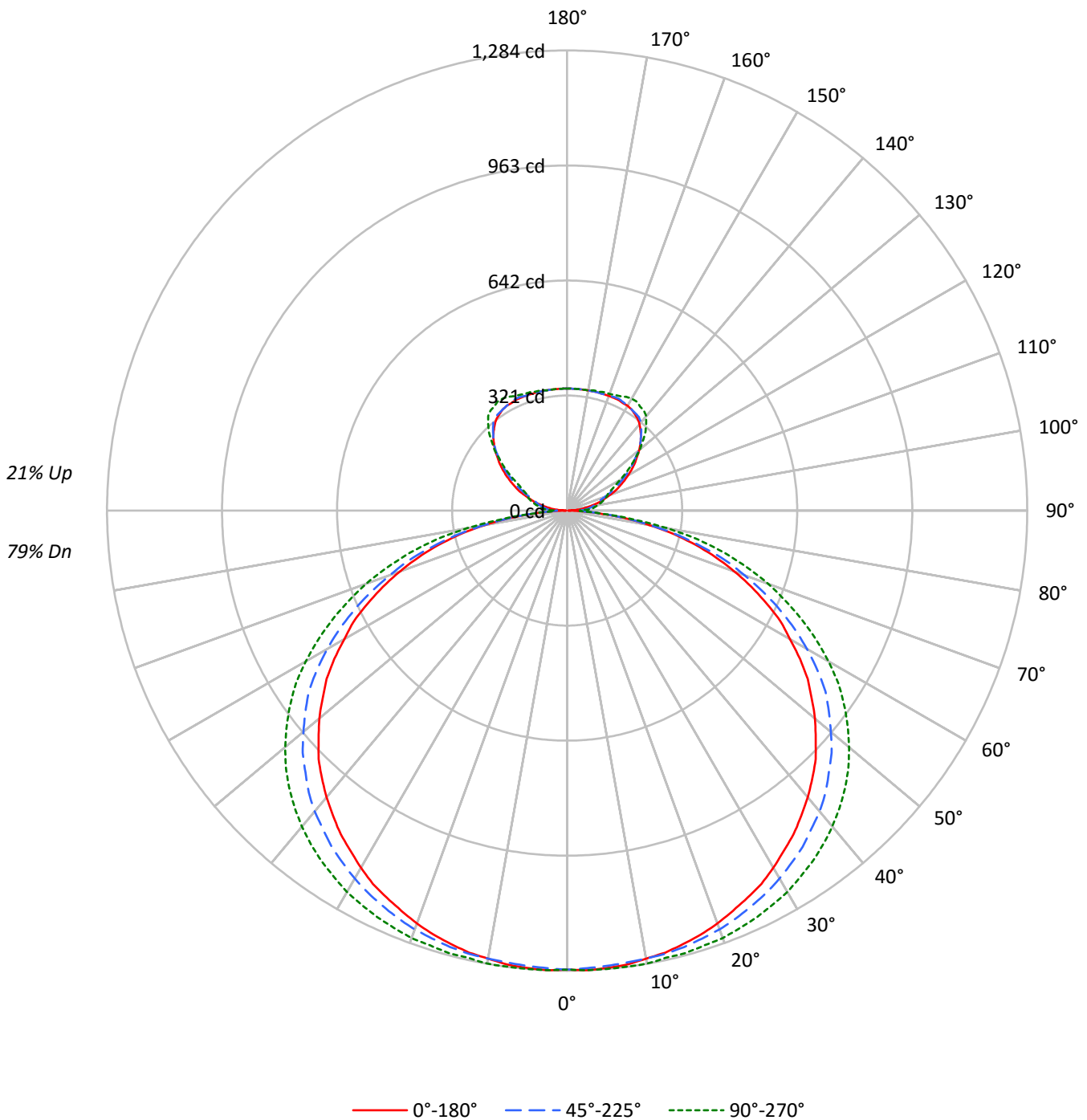
Input Watts (W): 46.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	40	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°	4316	4316	4316
5°	4333	4313	4342
10°	4343	4343	4392
15°	4368	4398	4458
20°	4396	4459	4551
25°	4430	4526	4655
30°	4478	4613	4781
35°	4533	4711	4913
40°	4594	4822	5063
45°	4674	4922	5224
50°	4733	5036	5384
55°	4813	5169	5542
60°	4841	5210	5677
65°	4899	5222	5773
70°	4889	5172	5884
75°	4844	5070	5896
80°	4535	4591	5486
85°	3344	3568	3681



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	2.1
10°-20°	357.4	6.2
20°-30°	563.6	9.8
30°-40°	718.1	12.4
40°-50°	799.7	13.9
50°-60°	784.3	13.6
60°-70°	655.2	11.4
70°-80°	422.1	7.3
80°-90°	118.6	2.1
90°-100°	57.4	1.0
100°-110°	100.8	1.7
110°-120°	147.5	2.6
120°-130°	198.3	3.4
130°-140°	226.8	3.9
140°-150°	211.2	3.7
150°-160°	159.2	2.8
160°-170°	96.8	1.7
170°-180°	32.5	0.6
0°-30°	1043.1	18.1
0°-40°	1761.2	30.5
0°-60°	3345.2	58.0
0°-90°	4541.2	78.7
90°-120°	305.7	5.3
90°-150°	942.0	16.3
90°-180°	1231.0	21.3
0°-180°	5771.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1281	1281	1275	1284	1284	122
15°	1252	1258	1261	1272	1278	354
25°	1191	1200	1217	1243	1252	550
35°	1102	1114	1145	1180	1194	689
45°	981	995	1033	1079	1096	755
55°	819	837	880	920	943	730
65°	614	629	655	704	724	607
75°	372	378	389	433	453	390
85°	86	89	92	98	95	103
90°	3	20	29	35	35	7
95°	29	43	58	66	72	31
105°	95	89	89	101	104	99
115°	162	159	147	138	136	161
125°	231	225	222	216	216	206
135°	291	286	291	303	309	224
145°	329	326	332	349	355	206
155°	340	340	343	349	352	157
165°	340	340	340	343	343	96
175°	340	340	340	340	340	32
180°	340	340	340	340	340	



TEST NUMBER: P213085

CATALOG NUMBER: DSI-WD-60L830-1D-UNV-4-STD-FC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1283.7	1283.7	1278.0	1283.7	1283.7
5°	1280.9	1280.9	1275.1	1283.7	1283.7
7.5°	1278.0	1278.0	1272.2	1283.7	1283.7
10°	1269.3	1272.2	1269.3	1280.9	1283.7
12.5°	1263.5	1266.4	1266.4	1278.0	1278.0
15°	1252.0	1257.8	1260.7	1272.2	1278.0
17.5°	1240.5	1246.2	1252.0	1266.4	1272.2
20°	1226.0	1231.8	1243.4	1260.7	1269.3
22.5°	1208.7	1217.4	1231.8	1252.0	1260.7
25°	1191.4	1200.1	1217.4	1243.4	1252.0
27.5°	1174.1	1182.8	1203.0	1228.9	1240.5
30°	1151.0	1162.6	1185.7	1214.5	1228.9
32.5°	1125.1	1139.5	1165.5	1197.2	1211.6
35°	1102.0	1113.5	1145.3	1179.9	1194.3
37.5°	1073.1	1087.6	1119.3	1159.7	1174.1
40°	1044.3	1061.6	1096.2	1133.7	1151.0
42.5°	1012.6	1027.0	1067.4	1107.8	1125.1
45°	980.8	995.3	1032.8	1078.9	1096.2
47.5°	940.4	960.6	1001.0	1047.2	1064.5
50°	902.9	920.3	960.6	1009.7	1027.0
52.5°	859.7	882.8	920.3	966.4	986.6
55°	819.3	836.6	879.9	920.3	943.3
57.5°	770.2	790.4	827.9	871.2	897.2
60°	718.3	738.5	773.1	816.4	842.4
62.5°	672.2	683.7	715.4	761.6	784.7
65°	614.5	628.9	654.9	703.9	724.1
67.5°	556.8	568.3	591.4	640.4	660.6
70°	496.2	507.7	525.0	574.1	597.2
72.5°	435.6	444.3	464.5	504.8	525.0
75°	372.1	377.9	389.4	432.7	452.9
77.5°	305.8	305.8	317.3	354.8	375.0
80°	233.7	233.7	236.6	271.2	282.7
82.5°	161.5	155.8	161.5	181.7	184.6
85°	86.5	89.4	92.3	98.1	95.2
87.5°	31.7	37.5	40.4	37.5	37.5
90°	2.9	20.2	28.8	34.6	34.6
92.5°	14.4	34.6	49.0	51.9	54.8
95°	28.8	43.3	57.7	66.4	72.1
97.5°	46.2	49.0	66.4	77.9	77.9
100°	60.6	60.6	75.0	86.5	86.5
102.5°	77.9	75.0	83.7	92.3	95.2
105°	95.2	89.4	89.4	101.0	103.9
107.5°	109.6	106.7	98.1	109.6	112.5
110°	126.9	124.0	112.5	115.4	118.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	147.1	141.4	129.8	124.0	124.0
115°	161.5	158.7	147.1	138.5	135.6
117.5°	178.9	173.1	164.4	155.8	150.0
120°	196.2	190.4	181.7	176.0	170.2
122.5°	213.5	210.6	201.9	196.2	193.3
125°	230.8	225.0	222.1	216.4	216.4
127.5°	245.2	242.3	239.4	239.4	239.4
130°	262.5	256.7	259.6	259.6	265.4
132.5°	276.9	271.2	276.9	282.7	285.6
135°	291.4	285.6	291.4	302.9	308.7
137.5°	302.9	300.0	305.8	320.2	326.0
140°	314.4	311.6	320.2	334.6	343.3
142.5°	323.1	320.2	328.9	343.3	351.9
145°	328.9	326.0	331.8	349.1	354.8
147.5°	334.6	331.8	334.6	354.8	360.6
150°	337.5	337.5	337.5	354.8	360.6
152.5°	337.5	337.5	340.4	349.1	357.7
155°	340.4	340.4	343.3	349.1	351.9
157.5°	340.4	340.4	343.3	346.2	349.1
160°	340.4	340.4	340.4	346.2	346.2
162.5°	340.4	340.4	340.4	343.3	346.2
165°	340.4	340.4	340.4	343.3	343.3
167.5°	340.4	340.4	340.4	343.3	343.3
170°	340.4	340.4	340.4	340.4	340.4
172.5°	340.4	340.4	340.4	340.4	340.4
175°	340.4	340.4	340.4	340.4	340.4
177.5°	340.4	340.4	340.4	340.4	340.4
180°	340.4	340.4	340.4	340.4	340.4

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