

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: P35723

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35723
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-20L835-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 1.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2068.7 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

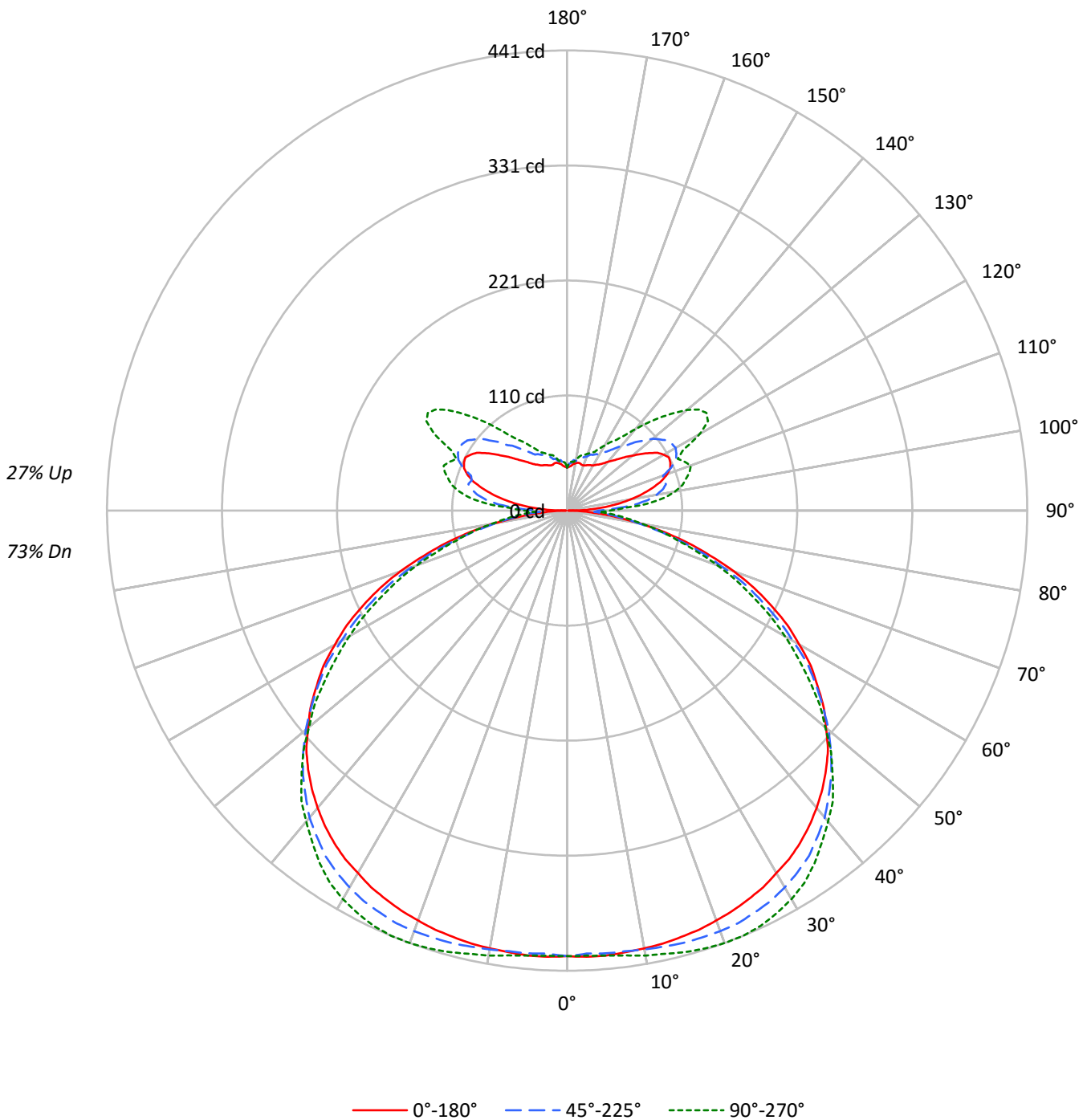
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78	75	73	71	67	65	64	60
2	93	84	77	72	87	80	74	69	72	67	63	65	61	58	58	55	53	49
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	41
4	77	65	56	49	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	57	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	26
7	60	46	38	32	56	44	36	31	40	34	29	37	31	27	33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20	18
10	48	35	27	22	46	34	27	22	31	25	20	28	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1439	1439	1439
5°	1448	1441	1448
10°	1458	1461	1482
15°	1476	1497	1528
20°	1499	1538	1581
25°	1528	1580	1632
30°	1560	1622	1673
35°	1600	1662	1699
40°	1636	1689	1711
45°	1673	1706	1716
50°	1698	1714	1693
55°	1721	1710	1663
60°	1732	1685	1624
65°	1722	1642	1571
70°	1675	1566	1507
75°	1562	1458	1419
80°	1358	1339	1417
85°	1044	1469	1740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	2.0
10°-20°	121.8	5.9
20°-30°	196.4	9.5
30°-40°	251.7	12.2
40°-50°	275.1	13.3
50°-60°	258.9	12.5
60°-70°	204.2	9.9
70°-80°	121.0	5.8
80°-90°	44.2	2.1
90°-100°	63.7	3.1
100°-110°	102.9	5.0
110°-120°	113.0	5.5
120°-130°	109.6	5.3
130°-140°	74.8	3.6
140°-150°	44.8	2.2
150°-160°	26.8	1.3
160°-170°	14.6	0.7
170°-180°	4.5	0.2
0°-30°	359.0	17.4
0°-40°	610.7	29.5
0°-60°	1144.7	55.3
0°-90°	1514.2	73.2
90°-120°	279.6	13.5
90°-150°	508.7	24.6
90°-180°	555.0	26.8
0°-180°	2068.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	428	427	426	428	428	41
15°	423	425	429	436	438	120
25°	411	416	425	435	439	190
35°	389	394	404	411	413	243
45°	351	354	358	361	360	271
55°	293	294	291	286	283	262
65°	216	213	206	201	197	213
75°	120	119	112	109	109	126
85°	27	31	38	43	45	31
90°	1	18	30	39	41	5
95°	34	49	65	75	78	34
105°	85	81	98	114	118	89
115°	109	106	115	114	117	107
125°	96	103	117	147	163	86
135°	70	78	93	114	126	55
145°	54	62	70	80	83	34
155°	48	53	59	61	62	22
165°	47	49	51	53	55	13
175°	43	47	46	47	47	4
180°	41	41	41	41	41	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427	427	427	427	427
2.5°	428	427	425	427	427
5°	428	427	426	428	428
7.5°	427	427	426	430	430
10°	426	427	427	432	433
12.5°	425	426	428	434	435
15°	423	425	429	436	438
17.5°	421	424	429	437	440
20°	418	422	429	438	441
22.5°	415	419	428	438	441
25°	411	416	425	435	439
27.5°	407	412	422	432	435
30°	401	407	417	427	430
32.5°	396	402	411	420	423
35°	389	394	404	411	413
37.5°	381	386	394	400	401
40°	372	377	384	389	389
42.5°	362	366	371	375	377
45°	351	354	358	361	360
47.5°	339	341	343	345	343
50°	324	326	327	326	323
52.5°	310	311	309	307	305
55°	293	294	291	286	283
57.5°	277	276	273	266	262
60°	257	255	250	244	241
62.5°	238	234	229	222	220
65°	216	213	206	201	197
67.5°	194	190	184	180	176
70°	170	168	159	156	153
72.5°	144	143	137	132	130
75°	120	119	112	109	109
77.5°	95	94	89	91	92
80°	70	71	69	72	73
82.5°	47	49	52	57	58
85°	27	31	38	43	45
87.5°	12	18	26	30	31
90°	1	18	30	39	41
92.5°	19	34	46	52	54
95°	34	49	65	75	78
97.5°	49	60	78	90	94
100°	62	65	87	100	105
102.5°	74	73	94	108	113
105°	85	81	98	114	118
107.5°	95	90	96	118	123
110°	102	97	98	118	126



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107	102	108	113	122
115°	109	106	115	114	117
117.5°	110	107	118	132	125
120°	107	108	120	145	147
122.5°	103	107	119	149	160
125°	96	103	117	147	163
127.5°	89	97	112	142	159
130°	82	91	107	134	150
132.5°	76	85	99	124	138
135°	70	78	93	114	126
137.5°	65	74	85	104	114
140°	61	71	81	94	102
142.5°	57	66	75	85	91
145°	54	62	70	80	83
147.5°	52	60	66	75	78
150°	50	58	62	69	72
152.5°	49	54	61	65	67
155°	48	53	59	61	62
157.5°	47	53	58	58	60
160°	46	50	55	58	58
162.5°	46	49	54	58	56
165°	47	49	51	53	55
167.5°	47	49	51	52	53
170°	46	47	48	51	49
172.5°	45	47	49	47	47
175°	43	47	46	47	47
177.5°	42	43	45	46	46
180°	41	41	41	41	41

(END OF REPORT)