

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: P35734

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35734
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-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH FROSTED 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 / 1.43 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

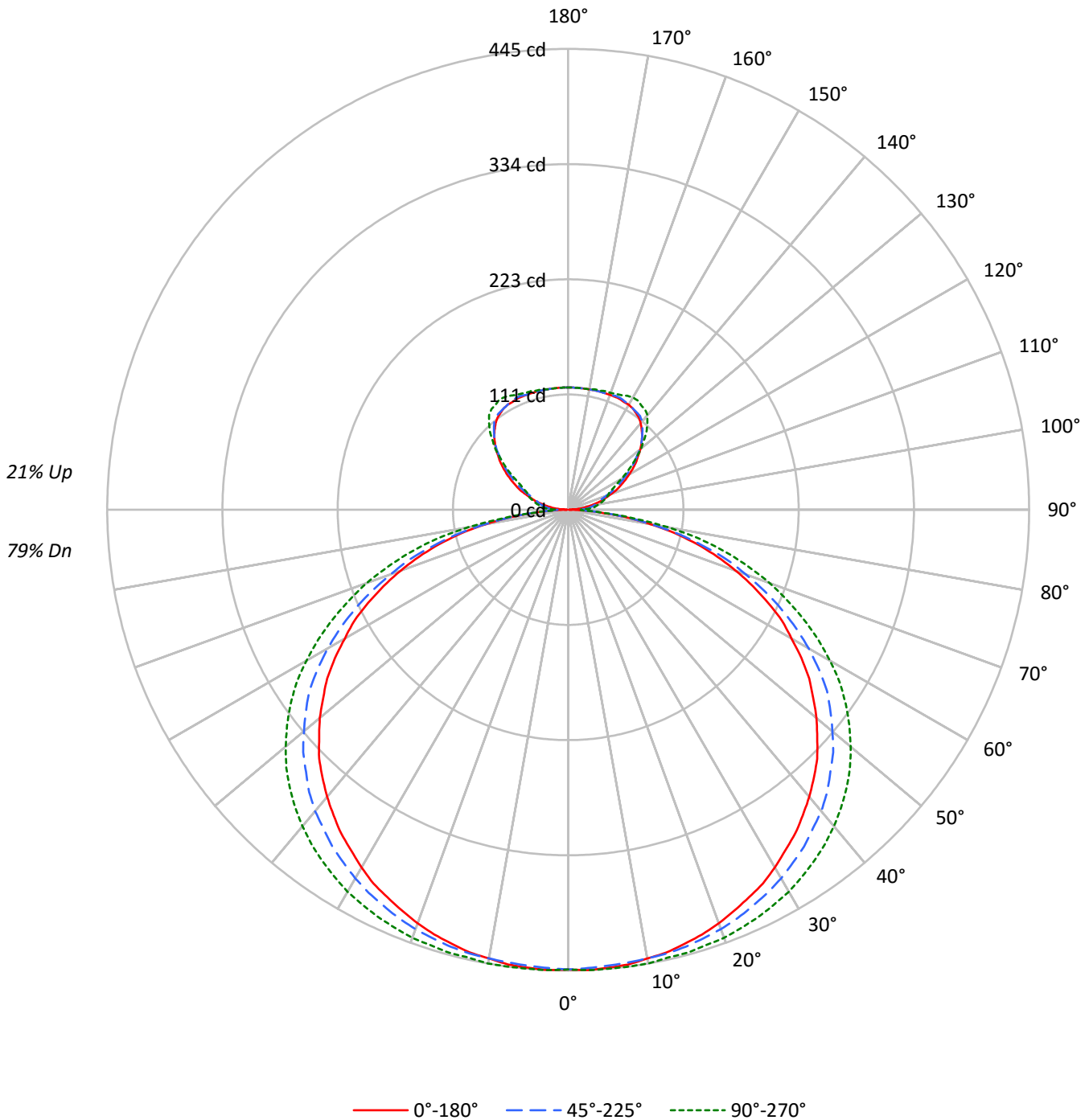
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1496	1496	1496
5°	1502	1495	1505
10°	1505	1505	1523
15°	1514	1524	1545
20°	1524	1545	1578
25°	1535	1569	1614
30°	1552	1599	1658
35°	1571	1633	1703
40°	1592	1671	1755
45°	1620	1706	1811
50°	1641	1746	1866
55°	1668	1792	1921
60°	1678	1806	1968
65°	1698	1810	2001
70°	1695	1793	2039
75°	1679	1758	2044
80°	1572	1591	1902
85°	1160	1237	1276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	2.1
10°-20°	123.9	6.2
20°-30°	195.4	9.8
30°-40°	248.9	12.4
40°-50°	277.2	13.9
50°-60°	271.9	13.6
60°-70°	227.1	11.4
70°-80°	146.3	7.3
80°-90°	41.1	2.1
90°-100°	19.9	1.0
100°-110°	35.0	1.7
110°-120°	51.1	2.6
120°-130°	68.7	3.4
130°-140°	78.6	3.9
140°-150°	73.2	3.7
150°-160°	55.2	2.8
160°-170°	33.6	1.7
170°-180°	11.3	0.6
0°-30°	361.6	18.1
0°-40°	610.5	30.5
0°-60°	1159.6	58.0
0°-90°	1574.2	78.7
90°-120°	106.0	5.3
90°-150°	326.5	16.3
90°-180°	427.0	21.3
0°-180°	2000.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	444	442	445	445	42
15°	434	436	437	441	443	123
25°	413	416	422	431	434	191
35°	382	386	397	409	414	239
45°	340	345	358	374	380	262
55°	284	290	305	319	327	253
65°	213	218	227	244	251	210
75°	129	131	135	150	157	135
85°	30	31	32	34	33	36
90°	1	7	10	12	12	2
95°	10	15	20	23	25	11
105°	33	31	31	35	36	34
115°	56	55	51	48	47	56
125°	80	78	77	75	75	71
135°	101	99	101	105	107	78
145°	114	113	115	121	123	71
155°	118	118	119	121	122	54
165°	118	118	118	119	119	33
175°	118	118	118	118	118	11
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	444	444	444	444	444
2.5°	445	445	443	445	445
5°	444	444	442	445	445
7.5°	443	443	441	445	445
10°	440	441	440	444	445
12.5°	438	439	439	443	443
15°	434	436	437	441	443
17.5°	430	432	434	439	441
20°	425	427	431	437	440
22.5°	419	422	427	434	437
25°	413	416	422	431	434
27.5°	407	410	417	426	430
30°	399	403	411	421	426
32.5°	390	395	404	415	420
35°	382	386	397	409	414
37.5°	372	377	388	402	407
40°	362	368	380	393	399
42.5°	351	356	370	384	390
45°	340	345	358	374	380
47.5°	326	333	347	363	369
50°	313	319	333	350	356
52.5°	298	306	319	335	342
55°	284	290	305	319	327
57.5°	267	274	287	302	311
60°	249	256	268	283	292
62.5°	233	237	248	264	272
65°	213	218	227	244	251
67.5°	193	197	205	222	229
70°	172	176	182	199	207
72.5°	151	154	161	175	182
75°	129	131	135	150	157
77.5°	106	106	110	123	130
80°	81	81	82	94	98
82.5°	56	54	56	63	64
85°	30	31	32	34	33
87.5°	11	13	14	13	13
90°	1	7	10	12	12
92.5°	5	12	17	18	19
95°	10	15	20	23	25
97.5°	16	17	23	27	27
100°	21	21	26	30	30
102.5°	27	26	29	32	33
105°	33	31	31	35	36
107.5°	38	37	34	38	39
110°	44	43	39	40	41



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51	49	45	43	43
115°	56	55	51	48	47
117.5°	62	60	57	54	52
120°	68	66	63	61	59
122.5°	74	73	70	68	67
125°	80	78	77	75	75
127.5°	85	84	83	83	83
130°	91	89	90	90	92
132.5°	96	94	96	98	99
135°	101	99	101	105	107
137.5°	105	104	106	111	113
140°	109	108	111	116	119
142.5°	112	111	114	119	122
145°	114	113	115	121	123
147.5°	116	115	116	123	125
150°	117	117	117	123	125
152.5°	117	117	118	121	124
155°	118	118	119	121	122
157.5°	118	118	119	120	121
160°	118	118	118	120	120
162.5°	118	118	118	119	120
165°	118	118	118	119	119
167.5°	118	118	118	119	119
170°	118	118	118	118	118
172.5°	118	118	118	118	118
175°	118	118	118	118	118
177.5°	118	118	118	118	118
180°	118	118	118	118	118

(END OF REPORT)