

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: P35732

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35732
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-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 1.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2026.8 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.45 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

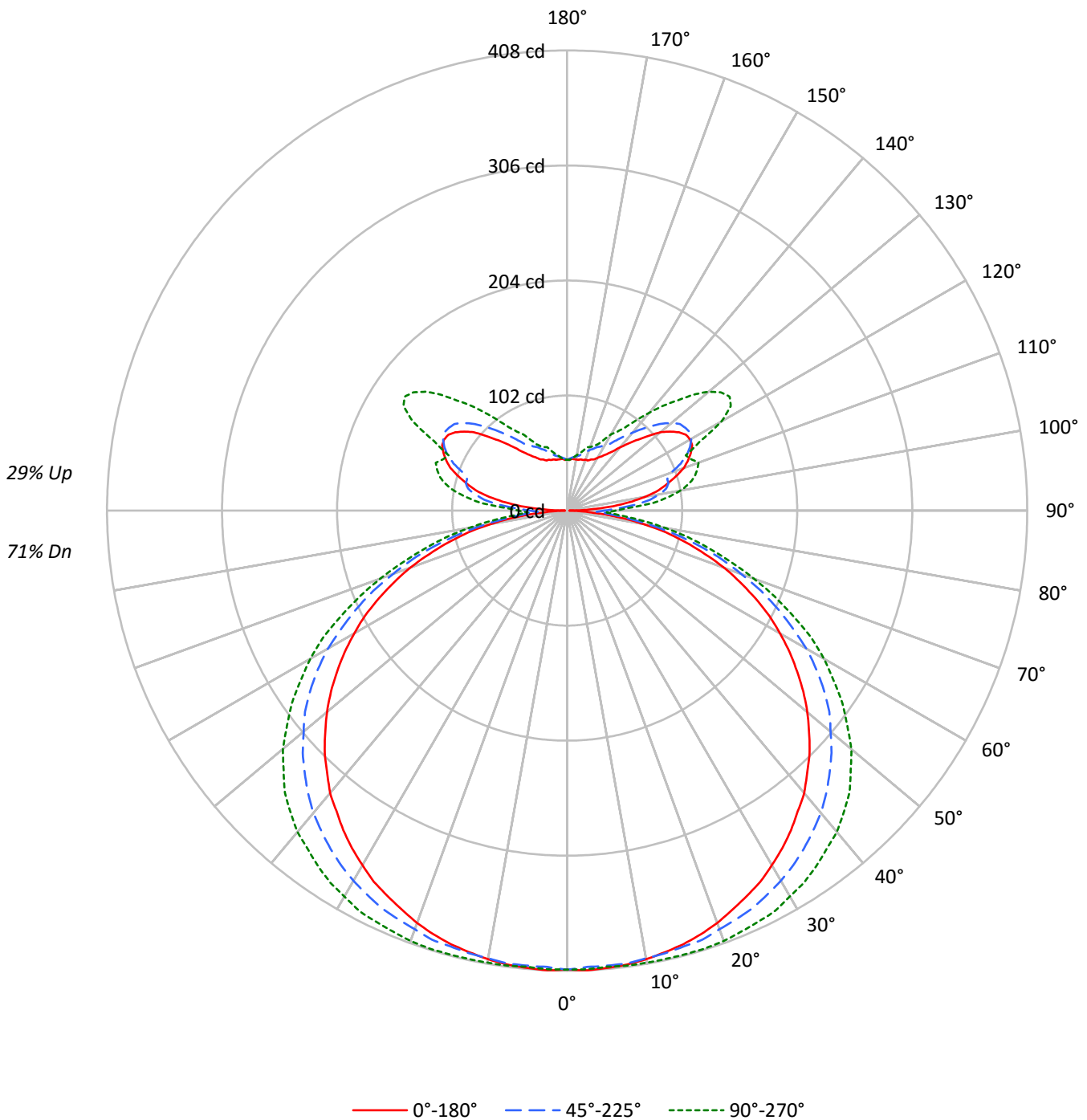
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	65	63	62	58	
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	56	53	51	47	
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	49	45	42	39	
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	43	39	36	33	
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28	
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	35	30	27	24	
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	32	27	24	21	
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	29	24	21	19	
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	27	22	19	17	
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	25	20	17	15	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1371	1371	1371
5°	1377	1370	1373
10°	1382	1379	1393
15°	1388	1395	1420
20°	1395	1416	1456
25°	1402	1446	1495
30°	1412	1475	1537
35°	1423	1506	1584
40°	1438	1540	1636
45°	1449	1568	1687
50°	1457	1599	1725
55°	1463	1633	1751
60°	1469	1651	1772
65°	1467	1642	1762
70°	1458	1616	1734
75°	1419	1588	1705
80°	1339	1494	1708
85°	967	1508	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.9
10°-20°	113.7	5.6
20°-30°	179.8	8.9
30°-40°	229.2	11.3
40°-50°	254.0	12.5
50°-60°	246.2	12.1
60°-70°	202.2	10.0
70°-80°	127.9	6.3
80°-90°	46.7	2.3
90°-100°	62.1	3.1
100°-110°	102.3	5.0
110°-120°	118.6	5.9
120°-130°	122.9	6.1
130°-140°	86.1	4.2
140°-150°	49.1	2.4
150°-160°	28.0	1.4
160°-170°	14.8	0.7
170°-180°	4.5	0.2
0°-30°	332.2	16.4
0°-40°	561.5	27.7
0°-60°	1061.7	52.4
0°-90°	1438.5	71.0
90°-120°	283.0	14.0
90°-150°	541.1	26.7
90°-180°	588.0	29.0
0°-180°	2026.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	407	407	405	406	406	39
15°	398	399	400	406	407	112
25°	377	381	389	399	402	174
35°	346	353	366	380	385	217
45°	304	313	329	347	354	234
55°	249	260	278	292	298	223
65°	184	194	206	217	221	182
75°	109	116	122	126	131	115
85°	25	30	39	45	46	30
90°	2	19	33	40	43	4
95°	38	45	61	72	76	37
105°	92	83	93	110	117	97
115°	121	116	117	115	116	119
125°	121	123	128	158	176	107
135°	89	97	106	126	138	70
145°	61	69	76	86	90	39
155°	50	55	62	64	65	23
165°	47	49	52	55	55	13
175°	46	46	47	47	46	4
180°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	407	407	407	407	407
2.5°	408	408	405	407	407
5°	407	407	405	406	406
7.5°	406	406	405	407	407
10°	404	404	403	406	407
12.5°	401	401	402	406	407
15°	398	399	400	406	407
17.5°	394	395	399	405	407
20°	389	391	395	403	406
22.5°	383	386	392	401	404
25°	377	381	389	399	402
27.5°	371	375	384	396	400
30°	363	368	379	391	395
32.5°	355	361	373	386	391
35°	346	353	366	380	385
37.5°	336	344	358	373	378
40°	327	334	350	366	372
42.5°	315	324	340	356	363
45°	304	313	329	347	354
47.5°	291	301	318	336	341
50°	278	288	305	322	329
52.5°	264	274	293	308	313
55°	249	260	278	292	298
57.5°	234	245	262	275	280
60°	218	228	245	257	263
62.5°	202	211	225	238	244
65°	184	194	206	217	221
67.5°	166	175	186	195	199
70°	148	156	164	173	176
72.5°	128	136	144	149	153
75°	109	116	122	126	131
77.5°	90	95	99	107	110
80°	69	73	77	85	88
82.5°	47	50	56	63	66
85°	25	30	39	45	46
87.5°	10	17	26	32	35
90°	2	19	33	40	43
92.5°	17	32	45	52	54
95°	38	45	61	72	76
97.5°	55	57	74	86	90
100°	70	64	83	98	102
102.5°	83	74	90	105	111
105°	92	83	93	110	117
107.5°	101	93	93	114	121
110°	110	102	98	114	124



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116	110	109	111	119
115°	121	116	117	115	116
117.5°	125	121	123	139	133
120°	126	124	127	153	158
122.5°	125	125	129	158	172
125°	121	123	128	158	176
127.5°	115	118	126	154	172
130°	108	112	121	146	164
132.5°	98	105	114	137	152
135°	89	97	106	126	138
137.5°	81	89	98	115	126
140°	73	81	90	104	113
142.5°	66	75	83	94	101
145°	61	69	76	86	90
147.5°	57	64	70	80	83
150°	54	60	67	74	78
152.5°	51	57	64	68	71
155°	50	55	62	64	65
157.5°	48	53	59	62	62
160°	48	51	57	60	60
162.5°	47	50	54	58	59
165°	47	49	52	55	55
167.5°	46	48	50	52	52
170°	46	47	49	50	50
172.5°	46	47	48	48	48
175°	46	46	47	47	46
177.5°	45	46	46	46	45
180°	45	45	45	45	45

(END OF REPORT)