

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: P213058

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35732)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-20L835-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 1.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.9 lumens
Efficiency: N/A
Efficacy: 139.7 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

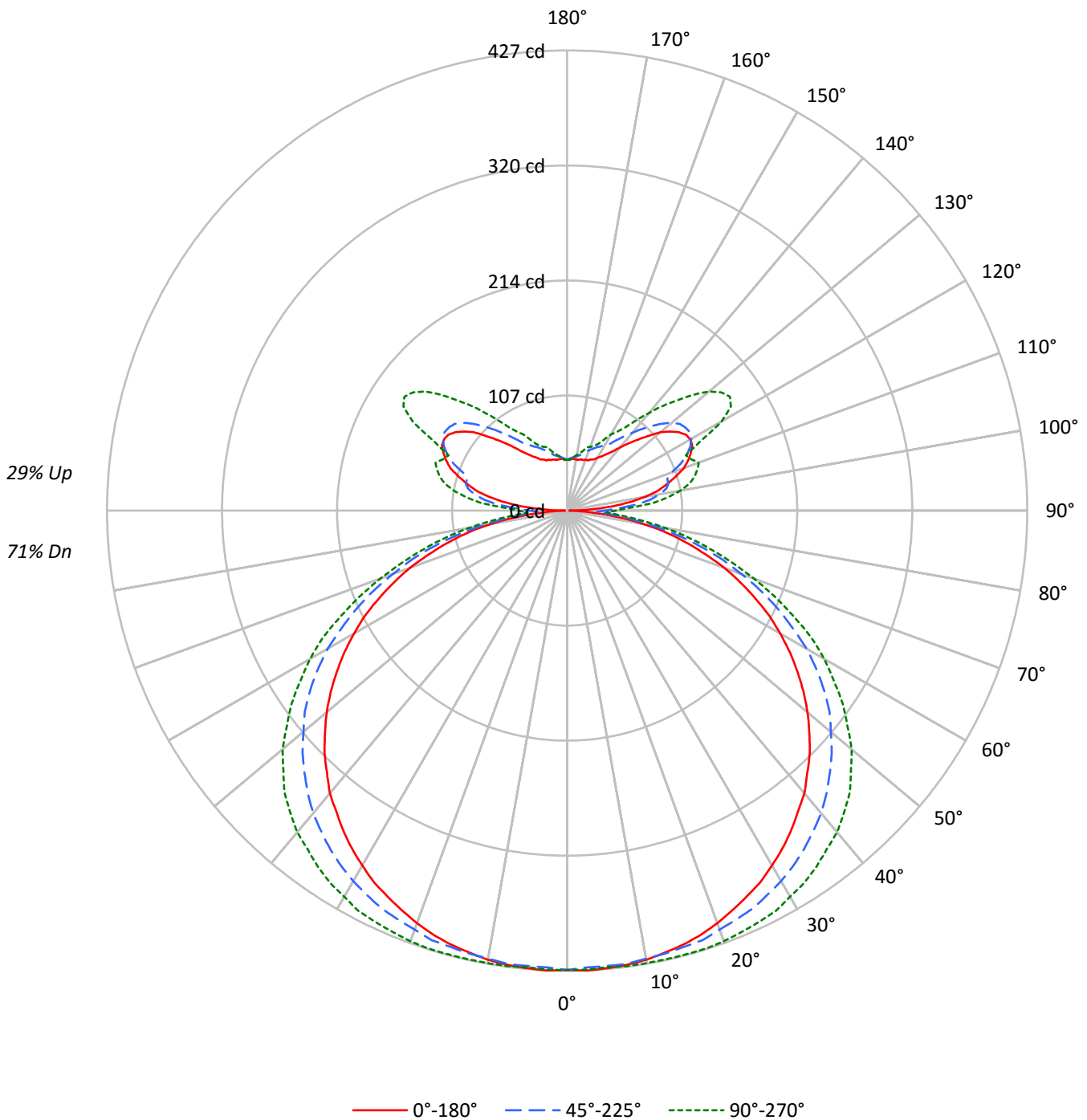
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1436	1436	1436
5°	1442	1435	1438
10°	1448	1444	1459
15°	1454	1462	1487
20°	1461	1483	1525
25°	1468	1515	1566
30°	1479	1545	1610
35°	1491	1577	1659
40°	1507	1613	1714
45°	1517	1642	1767
50°	1527	1675	1806
55°	1532	1711	1833
60°	1539	1729	1857
65°	1536	1721	1846
70°	1527	1693	1816
75°	1487	1664	1786
80°	1403	1566	1789
85°	1013	1577	1863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.9
10°-20°	119.1	5.6
20°-30°	188.3	8.9
30°-40°	240.1	11.3
40°-50°	266.0	12.5
50°-60°	257.9	12.1
60°-70°	211.8	10.0
70°-80°	133.9	6.3
80°-90°	49.0	2.3
90°-100°	65.0	3.1
100°-110°	107.1	5.0
110°-120°	124.2	5.9
120°-130°	128.7	6.1
130°-140°	90.2	4.2
140°-150°	51.5	2.4
150°-160°	29.3	1.4
160°-170°	15.5	0.7
170°-180°	4.7	0.2
0°-30°	348.0	16.4
0°-40°	588.1	27.7
0°-60°	1112.0	52.4
0°-90°	1506.7	71.0
90°-120°	296.4	14.0
90°-150°	566.7	26.7
90°-180°	616.0	29.0
0°-180°	2122.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	426	426	424	425	425	41
15°	417	418	419	425	426	118
25°	395	399	407	418	421	182
35°	362	370	383	398	403	227
45°	318	328	345	364	371	245
55°	261	272	291	306	312	233
65°	193	203	216	227	232	191
75°	114	122	128	132	137	120
85°	26	31	41	47	48	32
90°	2	20	35	42	45	4
95°	40	47	64	75	80	39
105°	96	87	97	115	122	101
115°	127	122	122	120	122	125
125°	127	129	134	166	184	112
135°	93	102	111	132	144	73
145°	64	72	80	90	94	41
155°	52	58	65	67	68	24
165°	49	51	54	58	58	14
175°	48	48	49	49	48	5
180°	47	47	47	47	47	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	426.3	426.3	426.3	426.3	426.3
2.5°	427.3	427.3	424.2	426.3	426.3
5°	426.3	426.3	424.2	425.2	425.2
7.5°	425.2	425.2	424.2	426.3	426.3
10°	423.2	423.2	422.1	425.2	426.3
12.5°	420.0	420.0	421.1	425.2	426.3
15°	416.9	417.9	419.0	425.2	426.3
17.5°	412.7	413.7	417.9	424.2	426.3
20°	407.4	409.5	413.7	422.1	425.2
22.5°	401.2	404.3	410.6	420.0	423.2
25°	394.9	399.1	407.4	417.9	421.1
27.5°	388.6	392.8	402.2	414.8	419.0
30°	380.2	385.4	397.0	409.5	413.7
32.5°	371.8	378.1	390.7	404.3	409.5
35°	362.4	369.7	383.4	398.0	403.3
37.5°	351.9	360.3	375.0	390.7	395.9
40°	342.5	349.8	366.6	383.4	389.6
42.5°	329.9	339.4	356.1	372.9	380.2
45°	318.4	327.8	344.6	363.5	370.8
47.5°	304.8	315.3	333.1	351.9	357.2
50°	291.2	301.7	319.5	337.3	344.6
52.5°	276.5	287.0	306.9	322.6	327.8
55°	260.8	272.3	291.2	305.8	312.1
57.5°	245.1	256.6	274.4	288.0	293.3
60°	228.3	238.8	256.6	269.2	275.5
62.5°	211.6	221.0	235.7	249.3	255.6
65°	192.7	203.2	215.8	227.3	231.5
67.5°	173.9	183.3	194.8	204.2	208.4
70°	155.0	163.4	171.8	181.2	184.3
72.5°	134.1	142.4	150.8	156.1	160.3
75°	114.2	121.5	127.8	132.0	137.2
77.5°	94.3	99.5	103.7	112.1	115.2
80°	72.3	76.5	80.7	89.0	92.2
82.5°	49.2	52.4	58.7	66.0	69.1
85°	26.2	31.4	40.8	47.1	48.2
87.5°	10.5	17.8	27.2	33.5	36.7
90°	2.1	19.9	34.6	41.9	45.0
92.5°	17.8	33.5	47.1	54.5	56.6
95°	39.8	47.1	63.9	75.4	79.6
97.5°	57.6	59.7	77.5	90.1	94.3
100°	73.3	67.0	86.9	102.6	106.8
102.5°	86.9	77.5	94.3	110.0	116.3
105°	96.4	86.9	97.4	115.2	122.5
107.5°	105.8	97.4	97.4	119.4	126.7
110°	115.2	106.8	102.6	119.4	129.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	121.5	115.2	114.2	116.3	124.6
115°	126.7	121.5	122.5	120.5	121.5
117.5°	130.9	126.7	128.8	145.6	139.3
120°	132.0	129.9	133.0	160.3	165.5
122.5°	130.9	130.9	135.1	165.5	180.2
125°	126.7	128.8	134.1	165.5	184.3
127.5°	120.5	123.6	132.0	161.3	180.2
130°	113.1	117.3	126.7	152.9	171.8
132.5°	102.6	110.0	119.4	143.5	159.2
135°	93.2	101.6	111.0	132.0	144.5
137.5°	84.8	93.2	102.6	120.5	132.0
140°	76.5	84.8	94.3	108.9	118.4
142.5°	69.1	78.6	86.9	98.5	105.8
145°	63.9	72.3	79.6	90.1	94.3
147.5°	59.7	67.0	73.3	83.8	86.9
150°	56.6	62.8	70.2	77.5	81.7
152.5°	53.4	59.7	67.0	71.2	74.4
155°	52.4	57.6	64.9	67.0	68.1
157.5°	50.3	55.5	61.8	64.9	64.9
160°	50.3	53.4	59.7	62.8	62.8
162.5°	49.2	52.4	56.6	60.7	61.8
165°	49.2	51.3	54.5	57.6	57.6
167.5°	48.2	50.3	52.4	54.5	54.5
170°	48.2	49.2	51.3	52.4	52.4
172.5°	48.2	49.2	50.3	50.3	50.3
175°	48.2	48.2	49.2	49.2	48.2
177.5°	47.1	48.2	48.2	48.2	47.1
180°	47.1	47.1	47.1	47.1	47.1

(END OF REPORT)