

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: P213087

Luminaire Tested: **DSI-WD-30L835-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213087
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-30L835-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 2.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.3 lumens
Efficiency: N/A
Efficacy: 135.7 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

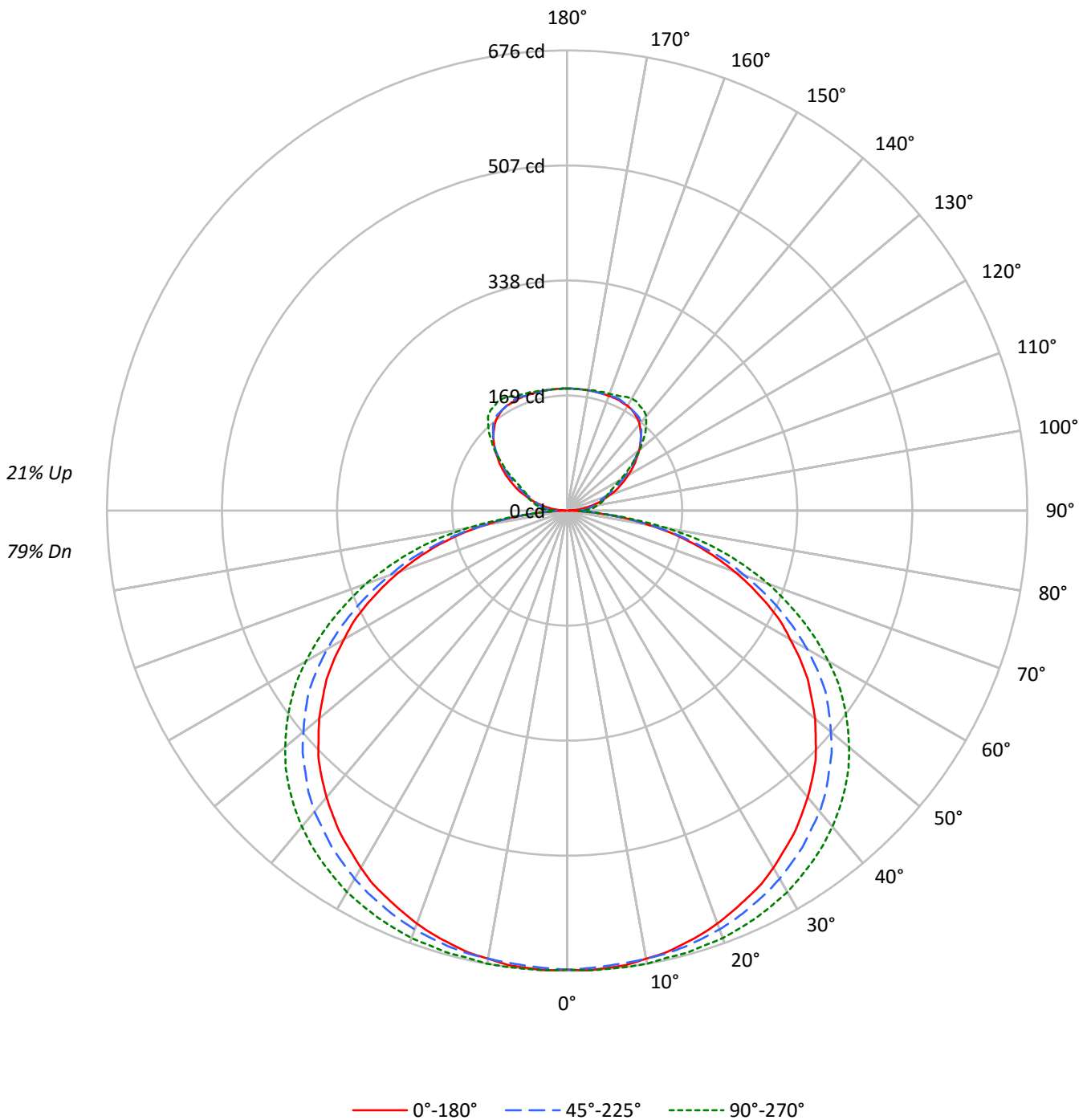
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2273	2273	2273
5°	2281	2271	2287
10°	2287	2287	2313
15°	2300	2316	2348
20°	2315	2348	2397
25°	2333	2384	2451
30°	2358	2429	2518
35°	2387	2481	2587
40°	2419	2539	2666
45°	2461	2591	2751
50°	2493	2652	2835
55°	2534	2722	2918
60°	2549	2744	2989
65°	2580	2749	3040
70°	2574	2724	3098
75°	2552	2670	3105
80°	2387	2418	2889
85°	1763	1879	1937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	2.1
10°-20°	188.2	6.2
20°-30°	296.8	9.8
30°-40°	378.2	12.4
40°-50°	421.1	13.9
50°-60°	413.0	13.6
60°-70°	345.0	11.4
70°-80°	222.3	7.3
80°-90°	62.4	2.1
90°-100°	30.2	1.0
100°-110°	53.1	1.7
110°-120°	77.7	2.6
120°-130°	104.4	3.4
130°-140°	119.4	3.9
140°-150°	111.2	3.7
150°-160°	83.8	2.8
160°-170°	51.0	1.7
170°-180°	17.1	0.6
0°-30°	549.3	18.1
0°-40°	927.4	30.5
0°-60°	1761.5	58.0
0°-90°	2391.3	78.7
90°-120°	161.0	5.3
90°-150°	496.0	16.3
90°-180°	648.0	21.3
0°-180°	3039.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	674	674	671	676	676	64
15°	659	662	664	670	673	186
25°	627	632	641	655	659	290
35°	580	586	603	621	629	363
45°	516	524	544	568	577	398
55°	431	440	463	485	497	384
65°	324	331	345	371	381	320
75°	196	199	205	228	238	205
85°	46	47	49	52	50	55
90°	2	11	15	18	18	4
95°	15	23	30	35	38	16
105°	50	47	47	53	55	52
115°	85	84	78	73	71	85
125°	122	118	117	114	114	108
135°	153	150	153	160	162	118
145°	173	172	175	184	187	108
155°	179	179	181	184	185	83
165°	179	179	179	181	181	51
175°	179	179	179	179	179	17
180°	179	179	179	179	179	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.5	674.5	674.5	674.5	674.5
2.5°	676.0	676.0	673.0	676.0	676.0
5°	674.5	674.5	671.4	676.0	676.0
7.5°	673.0	673.0	669.9	676.0	676.0
10°	668.4	669.9	668.4	674.5	676.0
12.5°	665.4	666.9	666.9	673.0	673.0
15°	659.3	662.3	663.9	669.9	673.0
17.5°	653.2	656.3	659.3	666.9	669.9
20°	645.6	648.7	654.7	663.9	668.4
22.5°	636.5	641.1	648.7	659.3	663.9
25°	627.4	632.0	641.1	654.7	659.3
27.5°	618.3	622.8	633.5	647.1	653.2
30°	606.1	612.2	624.4	639.5	647.1
32.5°	592.5	600.0	613.7	630.4	638.0
35°	580.3	586.4	603.1	621.3	628.9
37.5°	565.1	572.7	589.4	610.7	618.3
40°	549.9	559.0	577.3	597.0	606.1
42.5°	533.2	540.8	562.1	583.3	592.5
45°	516.5	524.1	543.8	568.1	577.3
47.5°	495.2	505.9	527.1	551.4	560.6
50°	475.5	484.6	505.9	531.7	540.8
52.5°	452.7	464.8	484.6	508.9	519.5
55°	431.4	440.5	463.3	484.6	496.7
57.5°	405.6	416.2	436.0	458.8	472.4
60°	378.3	388.9	407.1	429.9	443.6
62.5°	354.0	360.0	376.7	401.0	413.2
65°	323.6	331.2	344.8	370.7	381.3
67.5°	293.2	299.3	311.4	337.2	347.9
70°	261.3	267.4	276.5	302.3	314.5
72.5°	229.4	233.9	244.6	265.8	276.5
75°	196.0	199.0	205.1	227.9	238.5
77.5°	161.0	161.0	167.1	186.9	197.5
80°	123.0	123.0	124.6	142.8	148.9
82.5°	85.1	82.0	85.1	95.7	97.2
85°	45.6	47.1	48.6	51.6	50.1
87.5°	16.7	19.7	21.3	19.7	19.7
90°	1.5	10.6	15.2	18.2	18.2
92.5°	7.6	18.2	25.8	27.3	28.9
95°	15.2	22.8	30.4	34.9	38.0
97.5°	24.3	25.8	34.9	41.0	41.0
100°	31.9	31.9	39.5	45.6	45.6
102.5°	41.0	39.5	44.1	48.6	50.1
105°	50.1	47.1	47.1	53.2	54.7
107.5°	57.7	56.2	51.6	57.7	59.2
110°	66.8	65.3	59.2	60.8	62.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	77.5	74.4	68.4	65.3	65.3
115°	85.1	83.6	77.5	72.9	71.4
117.5°	94.2	91.1	86.6	82.0	79.0
120°	103.3	100.3	95.7	92.7	89.6
122.5°	112.4	110.9	106.3	103.3	101.8
125°	121.5	118.5	117.0	113.9	113.9
127.5°	129.1	127.6	126.1	126.1	126.1
130°	138.2	135.2	136.7	136.7	139.8
132.5°	145.8	142.8	145.8	148.9	150.4
135°	153.4	150.4	153.4	159.5	162.5
137.5°	159.5	158.0	161.0	168.6	171.7
140°	165.6	164.1	168.6	176.2	180.8
142.5°	170.1	168.6	173.2	180.8	185.3
145°	173.2	171.7	174.7	183.8	186.9
147.5°	176.2	174.7	176.2	186.9	189.9
150°	177.7	177.7	177.7	186.9	189.9
152.5°	177.7	177.7	179.3	183.8	188.4
155°	179.3	179.3	180.8	183.8	185.3
157.5°	179.3	179.3	180.8	182.3	183.8
160°	179.3	179.3	179.3	182.3	182.3
162.5°	179.3	179.3	179.3	180.8	182.3
165°	179.3	179.3	179.3	180.8	180.8
167.5°	179.3	179.3	179.3	180.8	180.8
170°	179.3	179.3	179.3	179.3	179.3
172.5°	179.3	179.3	179.3	179.3	179.3
175°	179.3	179.3	179.3	179.3	179.3
177.5°	179.3	179.3	179.3	179.3	179.3
180°	179.3	179.3	179.3	179.3	179.3

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