

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: P213078

Luminaire Tested: **DSI-WD-30L840-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-30L840-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 2.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3075.8 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

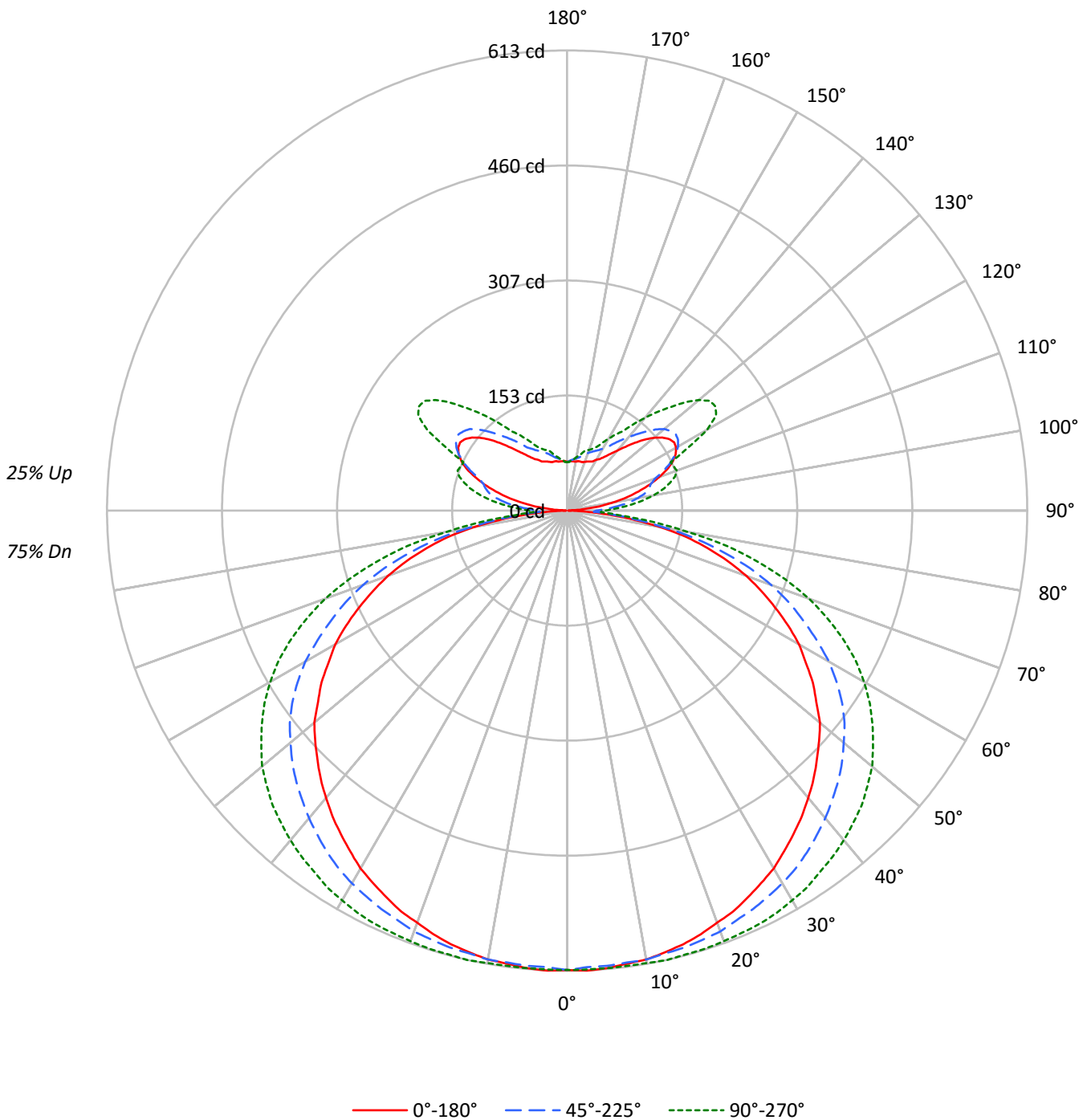
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	102	97	92	88	97	92	88	84	83	80	77	75	73	70	68	66	64	60
2	92	83	76	70	87	79	73	67	72	67	62	65	61	57	58	55	52	49
3	83	72	64	57	79	69	61	55	62	56	51	56	51	47	51	47	43	40
4	76	63	55	48	71	60	52	46	55	48	43	50	44	39	45	40	36	33
5	69	56	47	40	65	54	45	39	49	42	36	44	38	34	40	35	31	28
6	64	50	41	35	60	48	40	34	44	37	31	40	34	29	36	31	27	24
7	59	45	36	30	56	43	35	29	39	32	27	36	30	26	32	27	24	21
8	54	41	32	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17
10	47	34	26	21	45	33	26	21	30	24	19	28	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2062	2062	2062
5°	2070	2059	2070
10°	2078	2078	2094
15°	2086	2102	2135
20°	2095	2139	2188
25°	2115	2178	2258
30°	2142	2231	2333
35°	2163	2289	2416
40°	2198	2353	2522
45°	2242	2432	2645
50°	2305	2523	2780
55°	2348	2628	2917
60°	2404	2715	3077
65°	2439	2770	3236
70°	2499	2847	3377
75°	2522	2823	3423
80°	2416	2596	3163
85°	1782	2320	2675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.9
10°-20°	171.0	5.6
20°-30°	271.3	8.8
30°-40°	349.0	11.3
40°-50°	395.5	12.9
50°-60°	399.9	13.0
60°-70°	349.4	11.4
70°-80°	235.2	7.6
80°-90°	75.1	2.4
90°-100°	68.0	2.2
100°-110°	121.1	3.9
110°-120°	154.3	5.0
120°-130°	168.3	5.5
130°-140°	121.2	3.9
140°-150°	70.3	2.3
150°-160°	40.0	1.3
160°-170°	21.3	0.7
170°-180°	6.5	0.2
0°-30°	500.6	16.3
0°-40°	849.6	27.6
0°-60°	1645.0	53.5
0°-90°	2304.8	74.9
90°-120°	343.4	11.2
90°-150°	703.2	22.9
90°-180°	771.0	25.1
0°-180°	3075.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	612	612	609	612	612	58
15°	598	600	603	610	612	169
25°	569	575	586	601	607	263
35°	526	535	556	578	587	330
45°	470	484	510	543	555	364
55°	400	417	447	480	497	357
65°	306	326	347	387	406	303
75°	194	206	217	249	263	203
85°	46	49	60	68	69	55
90°	2	23	38	49	51	4
95°	23	48	68	80	83	27
105°	98	97	112	134	141	103
115°	155	149	152	155	152	152
125°	166	166	177	218	241	147
135°	128	135	149	178	195	99
145°	88	98	109	123	129	56
155°	72	78	88	91	94	34
165°	68	71	75	78	80	19
175°	66	66	68	68	68	6
180°	65	65	65	65	65	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.9	611.9	611.9	611.9	611.9
2.5°	613.4	611.9	608.8	611.9	611.9
5°	611.9	611.9	608.8	611.9	611.9
7.5°	608.8	610.3	607.3	611.9	611.9
10°	607.3	607.3	607.3	611.9	611.9
12.5°	602.6	604.2	604.2	610.3	613.4
15°	598.0	599.6	602.6	610.3	611.9
17.5°	591.9	595.0	599.6	608.8	611.9
20°	584.2	588.8	596.5	607.3	610.3
22.5°	578.1	582.7	590.4	604.2	608.8
25°	568.8	575.0	585.7	601.1	607.3
27.5°	559.6	565.8	579.6	596.5	604.2
30°	550.4	558.1	573.4	591.9	599.6
32.5°	538.1	547.3	565.8	585.7	595.0
35°	525.8	535.0	556.5	578.1	587.3
37.5°	513.5	524.2	545.8	570.4	581.1
40°	499.6	510.4	535.0	562.7	573.4
42.5°	485.8	498.1	522.7	551.9	564.2
45°	470.4	484.3	510.4	542.7	555.0
47.5°	455.1	468.9	496.6	530.4	542.7
50°	439.7	453.5	481.2	515.0	530.4
52.5°	418.2	435.1	465.8	498.1	513.5
55°	399.7	416.6	447.4	479.7	496.6
57.5°	376.7	396.6	425.9	459.7	478.1
60°	356.7	373.6	402.8	438.2	456.6
62.5°	332.1	350.5	375.1	413.6	433.5
65°	305.9	325.9	347.4	387.4	405.9
67.5°	279.8	298.3	319.8	356.7	375.1
70°	253.7	270.6	289.0	325.9	342.8
72.5°	224.5	239.8	255.2	289.0	304.4
75°	193.7	206.0	216.8	249.1	262.9
77.5°	163.0	169.1	178.3	206.0	218.3
80°	124.5	129.1	133.8	156.8	163.0
82.5°	84.6	87.6	93.8	107.6	113.8
85°	46.1	49.2	60.0	67.6	69.2
87.5°	15.4	24.6	35.4	41.5	44.6
90°	1.5	23.1	38.4	49.2	50.7
92.5°	7.7	35.4	52.3	61.5	64.6
95°	23.1	47.7	67.6	79.9	83.0
97.5°	43.0	60.0	83.0	96.9	101.5
100°	61.5	70.7	95.3	112.2	116.8
102.5°	81.5	81.5	106.1	124.5	130.7
105°	98.4	96.9	112.2	133.8	141.4
107.5°	115.3	110.7	116.8	141.4	150.7
110°	130.7	124.5	124.5	143.0	155.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.5	136.8	139.9	143.0	153.7
115°	155.3	149.1	152.2	155.3	152.2
117.5°	163.0	158.3	163.0	186.0	181.4
120°	167.6	164.5	170.6	206.0	215.2
122.5°	169.1	167.6	175.3	215.2	235.2
125°	166.0	166.0	176.8	218.3	241.4
127.5°	159.9	163.0	173.7	213.7	239.8
130°	150.7	155.3	169.1	204.5	229.1
132.5°	139.9	146.1	159.9	192.2	213.7
135°	127.6	135.3	149.1	178.3	195.2
137.5°	115.3	124.5	138.4	163.0	178.3
140°	104.5	115.3	127.6	149.1	161.4
142.5°	95.3	106.1	118.4	135.3	144.5
145°	87.6	98.4	109.2	123.0	129.1
147.5°	81.5	92.2	99.9	115.3	119.9
150°	78.4	86.1	95.3	106.1	110.7
152.5°	73.8	81.5	90.7	96.9	101.5
155°	72.3	78.4	87.6	90.7	93.8
157.5°	70.7	75.3	84.6	87.6	89.2
160°	69.2	73.8	81.5	86.1	86.1
162.5°	67.6	72.3	78.4	83.0	84.6
165°	67.6	70.7	75.3	78.4	79.9
167.5°	67.6	69.2	72.3	75.3	75.3
170°	66.1	67.6	70.7	72.3	72.3
172.5°	66.1	67.6	69.2	70.7	69.2
175°	66.1	66.1	67.6	67.6	67.6
177.5°	66.1	66.1	66.1	66.1	64.6
180°	64.6	64.6	64.6	64.6	64.6

(END OF REPORT)