

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: P213017

Luminaire Tested: **DSI-WS-30L835-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35729)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-30L835-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 2.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.2 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.49 / 1.57
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

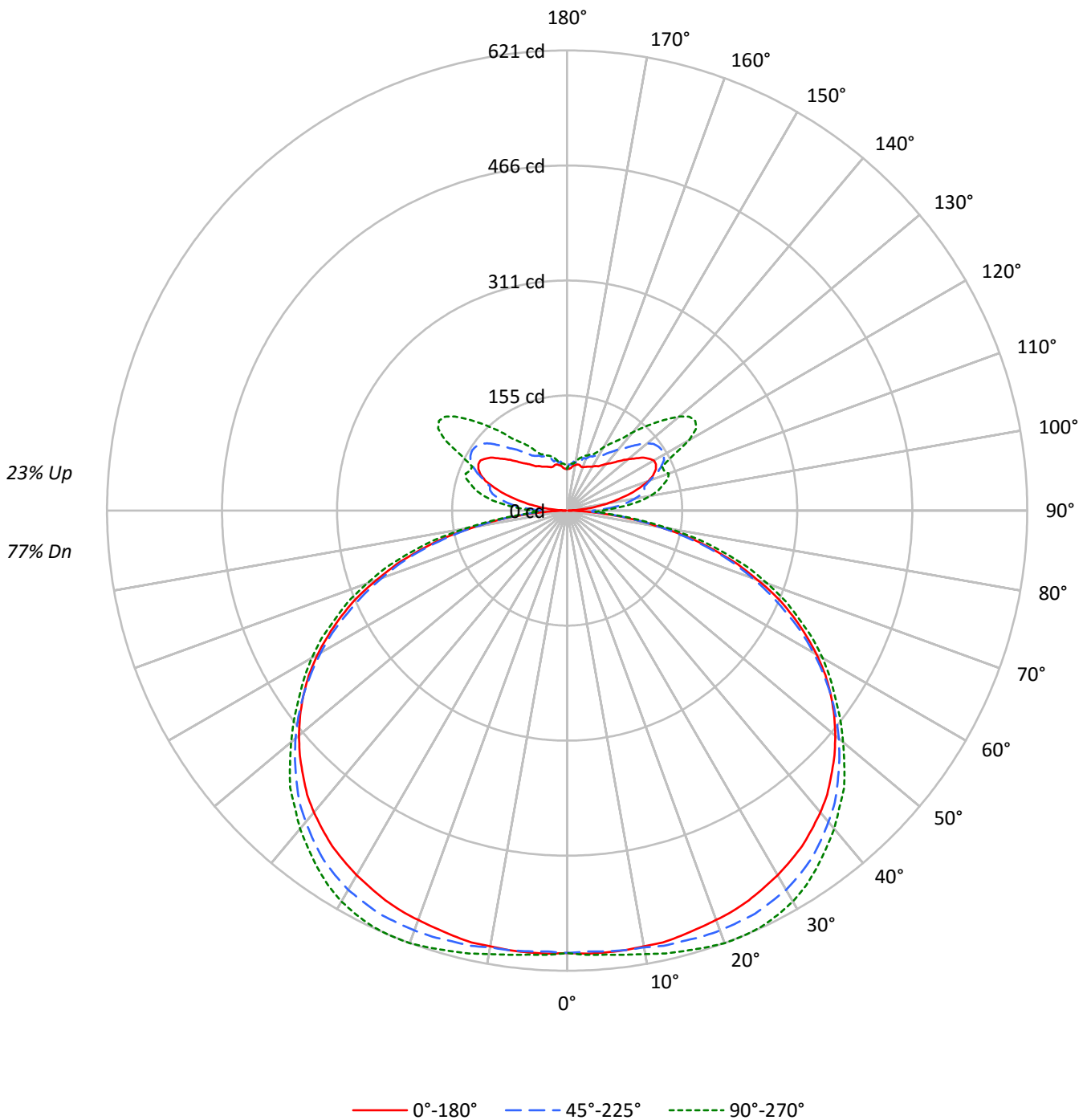
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66	62
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54	50
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45	42
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38	35
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32	30
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28	26
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25	22
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22	20
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20	18
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2012	2012	2012
5°	2024	2019	2035
10°	2043	2048	2079
15°	2072	2099	2146
20°	2108	2163	2228
25°	2158	2231	2304
30°	2210	2299	2370
35°	2275	2362	2418
40°	2339	2412	2466
45°	2403	2461	2519
50°	2476	2508	2548
55°	2553	2553	2597
60°	2621	2590	2682
65°	2677	2604	2749
70°	2694	2619	2829
75°	2670	2610	2849
80°	2447	2447	2713
85°	1937	2231	2351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.9
10°-20°	171.2	5.8
20°-30°	277.1	9.4
30°-40°	358.3	12.1
40°-50°	398.7	13.5
50°-60°	390.8	13.2
60°-70°	331.7	11.2
70°-80°	217.6	7.4
80°-90°	70.9	2.4
90°-100°	66.1	2.2
100°-110°	114.1	3.9
110°-120°	137.7	4.7
120°-130°	141.2	4.8
130°-140°	99.4	3.4
140°-150°	60.5	2.0
150°-160°	36.5	1.2
160°-170°	19.9	0.7
170°-180°	6.1	0.2
0°-30°	505.6	17.1
0°-40°	863.9	29.2
0°-60°	1653.3	55.9
0°-90°	2273.6	76.9
90°-120°	317.9	10.8
90°-150°	619.1	20.9
90°-180°	682.0	23.1
0°-180°	2955.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	598	598	597	602	602	57
15°	594	597	602	612	615	168
25°	580	586	600	615	620	268
35°	553	561	574	585	588	346
45°	504	510	516	524	529	390
55°	434	434	434	440	442	388
65°	336	333	327	343	345	331
75°	205	200	200	219	219	215
85°	50	52	58	62	61	58
90°	2	21	35	44	47	4
95°	23	49	68	79	80	25
105°	88	88	108	129	134	92
115°	132	128	140	143	141	129
125°	125	131	150	191	211	111
135°	93	105	123	152	167	73
145°	73	84	94	108	114	47
155°	65	73	80	84	84	30
165°	64	67	68	73	74	18
175°	58	64	62	64	64	6
180°	56	56	56	56	56	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.0	597.0	597.0	597.0	597.0
2.5°	598.5	598.5	595.5	598.5	600.1
5°	598.5	598.5	597.0	601.6	601.6
7.5°	598.5	598.5	598.5	603.1	604.6
10°	597.0	598.5	598.5	606.1	607.6
12.5°	597.0	598.5	601.6	609.2	612.2
15°	594.0	597.0	601.6	612.2	615.2
17.5°	590.9	595.5	603.1	615.2	618.3
20°	587.9	594.0	603.1	616.8	621.3
22.5°	584.9	590.9	601.6	616.8	621.3
25°	580.3	586.4	600.1	615.2	619.8
27.5°	574.2	581.8	595.5	610.7	615.2
30°	568.1	577.3	590.9	604.6	609.2
32.5°	560.6	569.7	583.3	597.0	600.1
35°	553.0	560.6	574.2	584.9	587.9
37.5°	542.3	548.4	562.1	572.7	574.2
40°	531.7	537.8	548.4	559.0	560.6
42.5°	519.5	524.1	534.7	542.3	543.8
45°	504.3	510.4	516.5	524.1	528.7
47.5°	489.2	493.7	498.3	505.9	507.4
50°	472.4	475.5	478.5	486.1	486.1
52.5°	454.2	457.3	457.3	463.3	464.8
55°	434.5	434.5	434.5	440.5	442.1
57.5°	413.2	413.2	410.2	417.8	420.8
60°	388.9	388.9	384.3	393.5	398.0
62.5°	363.1	361.5	357.0	367.6	373.7
65°	335.7	332.7	326.6	343.3	344.8
67.5°	306.9	303.8	297.7	314.5	319.0
70°	273.4	273.4	265.8	285.6	287.1
72.5°	241.5	237.0	235.5	252.2	256.7
75°	205.1	200.5	200.5	218.8	218.8
77.5°	168.6	162.5	162.5	179.3	183.8
80°	126.1	124.6	126.1	138.2	139.8
82.5°	89.6	85.1	89.6	97.2	98.7
85°	50.1	51.6	57.7	62.3	60.8
87.5°	19.7	27.3	33.4	36.5	38.0
90°	1.5	21.3	34.9	44.1	47.1
92.5°	9.1	34.9	50.1	59.2	62.3
95°	22.8	48.6	68.4	79.0	80.5
97.5°	38.0	57.7	82.0	95.7	100.3
100°	54.7	66.8	92.7	109.4	113.9
102.5°	71.4	77.5	103.3	120.0	126.1
105°	88.1	88.1	107.9	129.1	133.7
107.5°	103.3	100.3	109.4	135.2	142.8
110°	117.0	110.9	118.5	133.7	145.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.1	120.0	130.6	133.7	141.3
115°	132.2	127.6	139.8	142.8	141.3
117.5°	135.2	132.2	147.4	167.1	161.0
120°	135.2	135.2	150.4	183.8	189.9
122.5°	130.6	135.2	151.9	191.4	206.6
125°	124.6	130.6	150.4	191.4	211.2
127.5°	115.5	124.6	147.4	185.3	208.1
130°	107.9	118.5	141.3	176.2	197.5
132.5°	100.3	112.4	132.2	164.1	182.3
135°	92.7	104.8	123.0	151.9	167.1
137.5°	86.6	98.7	113.9	139.8	151.9
140°	82.0	95.7	107.9	126.1	138.2
142.5°	77.5	89.6	100.3	115.5	123.0
145°	72.9	83.6	94.2	107.9	113.9
147.5°	71.4	82.0	88.1	100.3	106.3
150°	68.4	77.5	85.1	94.2	98.7
152.5°	66.8	74.4	83.6	88.1	89.6
155°	65.3	72.9	80.5	83.6	83.6
157.5°	63.8	72.9	79.0	79.0	82.0
160°	62.3	68.4	74.4	80.5	79.0
162.5°	62.3	66.8	74.4	77.5	77.5
165°	63.8	66.8	68.4	72.9	74.4
167.5°	63.8	66.8	69.9	69.9	71.4
170°	62.3	63.8	65.3	69.9	66.8
172.5°	60.8	63.8	66.8	65.3	63.8
175°	57.7	63.8	62.3	63.8	63.8
177.5°	56.2	57.7	62.3	63.8	62.3
180°	56.2	56.2	56.2	56.2	56.2

(END OF REPORT)