

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: P213022

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213022
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-30L840-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 2.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.7 lumens
Efficiency: N/A
Efficacy: 133.5 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

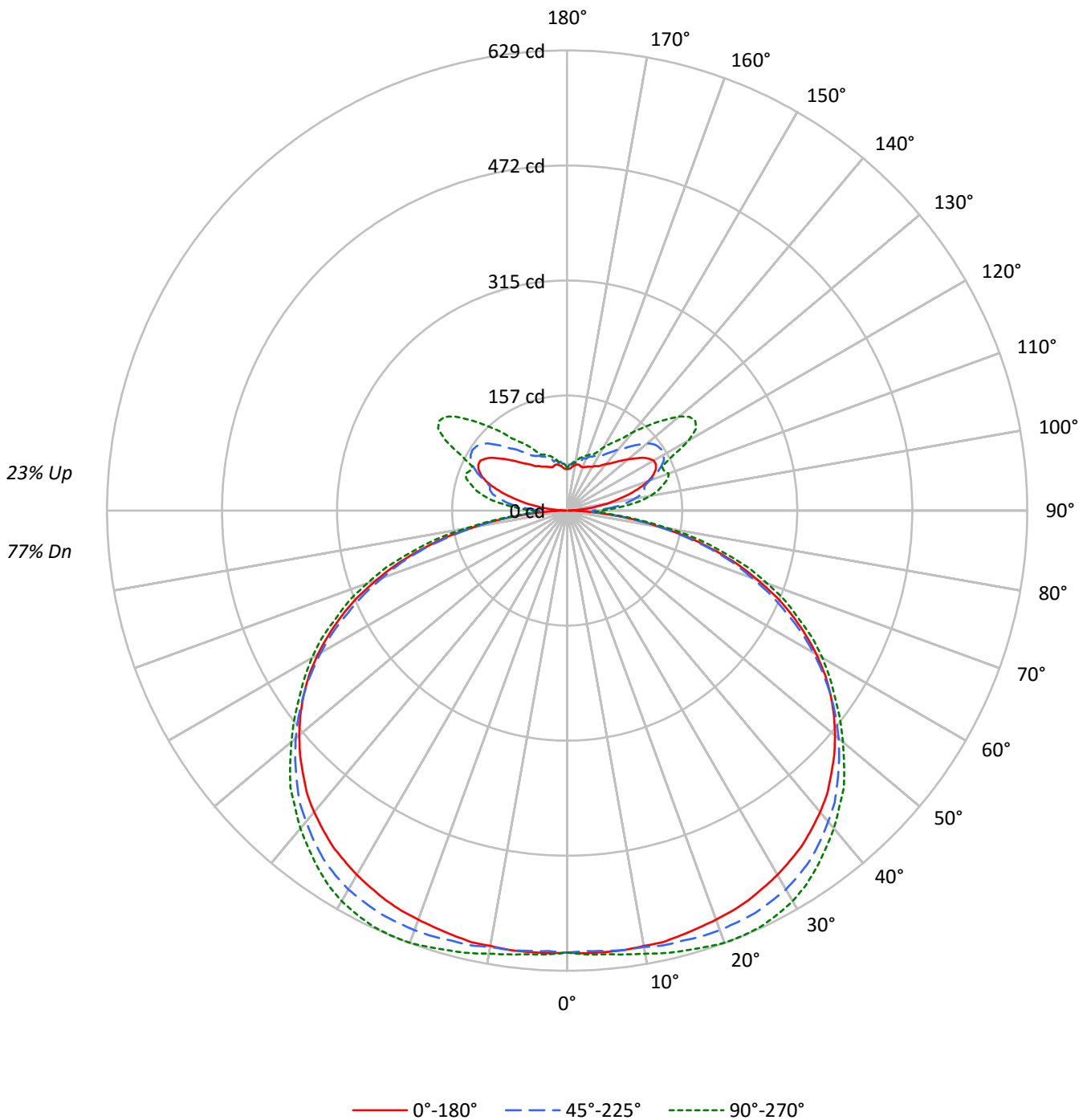
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77			77
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66	62			62
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54	50			50
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45	42			42
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38	35			35
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32	30			30
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28	26			26
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25	22			22
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22	20			20
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20	18			18
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18	16			16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2036	2036	2036
5°	2049	2044	2059
10°	2067	2072	2104
15°	2097	2124	2172
20°	2134	2188	2255
25°	2184	2258	2332
30°	2237	2327	2399
35°	2302	2390	2448
40°	2367	2441	2495
45°	2432	2491	2549
50°	2506	2539	2579
55°	2583	2583	2628
60°	2653	2622	2715
65°	2709	2635	2783
70°	2726	2650	2863
75°	2701	2642	2882
80°	2476	2476	2744
85°	1960	2258	2378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	1.9
10°-20°	173.2	5.8
20°-30°	280.5	9.4
30°-40°	362.6	12.1
40°-50°	403.5	13.5
50°-60°	395.5	13.2
60°-70°	335.7	11.2
70°-80°	220.2	7.4
80°-90°	71.8	2.4
90°-100°	66.9	2.2
100°-110°	115.4	3.9
110°-120°	139.3	4.7
120°-130°	142.9	4.8
130°-140°	100.6	3.4
140°-150°	61.3	2.0
150°-160°	36.9	1.2
160°-170°	20.2	0.7
170°-180°	6.1	0.2
0°-30°	511.7	17.1
0°-40°	874.2	29.2
0°-60°	1673.2	55.9
0°-90°	2300.9	76.9
90°-120°	321.7	10.8
90°-150°	626.5	20.9
90°-180°	690.0	23.1
0°-180°	2990.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	606	606	604	609	609	58
15°	601	604	609	620	623	170
25°	587	593	607	623	627	271
35°	560	567	581	592	595	350
45°	510	517	523	530	535	394
55°	440	440	440	446	447	393
65°	340	337	330	347	349	335
75°	208	203	203	221	221	218
85°	51	52	58	63	62	59
90°	2	22	35	45	48	4
95°	23	49	69	80	82	25
105°	89	89	109	131	135	93
115°	134	129	141	144	143	130
125°	126	132	152	194	214	112
135°	94	106	124	154	169	74
145°	74	85	95	109	115	47
155°	66	74	82	85	85	31
165°	65	68	69	74	75	18
175°	58	65	63	65	65	6
180°	57	57	57	57	57	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.2	604.2	604.2	604.2	604.2
2.5°	605.7	605.7	602.7	605.7	607.3
5°	605.7	605.7	604.2	608.8	608.8
7.5°	605.7	605.7	605.7	610.3	611.9
10°	604.2	605.7	605.7	613.4	615.0
12.5°	604.2	605.7	608.8	616.5	619.6
15°	601.1	604.2	608.8	619.6	622.6
17.5°	598.0	602.7	610.3	622.6	625.7
20°	595.0	601.1	610.3	624.2	628.8
22.5°	591.9	598.0	608.8	624.2	628.8
25°	587.3	593.4	607.3	622.6	627.2
27.5°	581.1	588.8	602.7	618.0	622.6
30°	575.0	584.2	598.0	611.9	616.5
32.5°	567.3	576.5	590.4	604.2	607.3
35°	559.6	567.3	581.1	591.9	595.0
37.5°	548.8	555.0	568.8	579.6	581.1
40°	538.1	544.2	555.0	565.8	567.3
42.5°	525.8	530.4	541.2	548.8	550.4
45°	510.4	516.6	522.7	530.4	535.0
47.5°	495.0	499.6	504.3	511.9	513.5
50°	478.1	481.2	484.3	492.0	492.0
52.5°	459.7	462.8	462.8	468.9	470.4
55°	439.7	439.7	439.7	445.8	447.4
57.5°	418.2	418.2	415.1	422.8	425.9
60°	393.6	393.6	389.0	398.2	402.8
62.5°	367.4	365.9	361.3	372.0	378.2
65°	339.8	336.7	330.5	347.4	349.0
67.5°	310.5	307.5	301.3	318.2	322.8
70°	276.7	276.7	269.0	289.0	290.6
72.5°	244.4	239.8	238.3	255.2	259.8
75°	207.5	202.9	202.9	221.4	221.4
77.5°	170.6	164.5	164.5	181.4	186.0
80°	127.6	126.1	127.6	139.9	141.4
82.5°	90.7	86.1	90.7	98.4	99.9
85°	50.7	52.3	58.4	63.0	61.5
87.5°	20.0	27.7	33.8	36.9	38.4
90°	1.5	21.5	35.4	44.6	47.7
92.5°	9.2	35.4	50.7	60.0	63.0
95°	23.1	49.2	69.2	79.9	81.5
97.5°	38.4	58.4	83.0	96.9	101.5
100°	55.3	67.6	93.8	110.7	115.3
102.5°	72.3	78.4	104.5	121.5	127.6
105°	89.2	89.2	109.2	130.7	135.3
107.5°	104.5	101.5	110.7	136.8	144.5
110°	118.4	112.2	119.9	135.3	147.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	127.6	121.5	132.2	135.3	143.0
115°	133.8	129.1	141.4	144.5	143.0
117.5°	136.8	133.8	149.1	169.1	163.0
120°	136.8	136.8	152.2	186.0	192.2
122.5°	132.2	136.8	153.7	193.7	209.1
125°	126.1	132.2	152.2	193.7	213.7
127.5°	116.8	126.1	149.1	187.6	210.6
130°	109.2	119.9	143.0	178.3	199.9
132.5°	101.5	113.8	133.8	166.0	184.5
135°	93.8	106.1	124.5	153.7	169.1
137.5°	87.6	99.9	115.3	141.4	153.7
140°	83.0	96.9	109.2	127.6	139.9
142.5°	78.4	90.7	101.5	116.8	124.5
145°	73.8	84.6	95.3	109.2	115.3
147.5°	72.3	83.0	89.2	101.5	107.6
150°	69.2	78.4	86.1	95.3	99.9
152.5°	67.6	75.3	84.6	89.2	90.7
155°	66.1	73.8	81.5	84.6	84.6
157.5°	64.6	73.8	79.9	79.9	83.0
160°	63.0	69.2	75.3	81.5	79.9
162.5°	63.0	67.6	75.3	78.4	78.4
165°	64.6	67.6	69.2	73.8	75.3
167.5°	64.6	67.6	70.7	70.7	72.3
170°	63.0	64.6	66.1	70.7	67.6
172.5°	61.5	64.6	67.6	66.1	64.6
175°	58.4	64.6	63.0	64.6	64.6
177.5°	56.9	58.4	63.0	64.6	63.0
180°	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)