

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: P213008

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35728)  
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-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC, LIGHT LEVEL 2.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3036.4 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

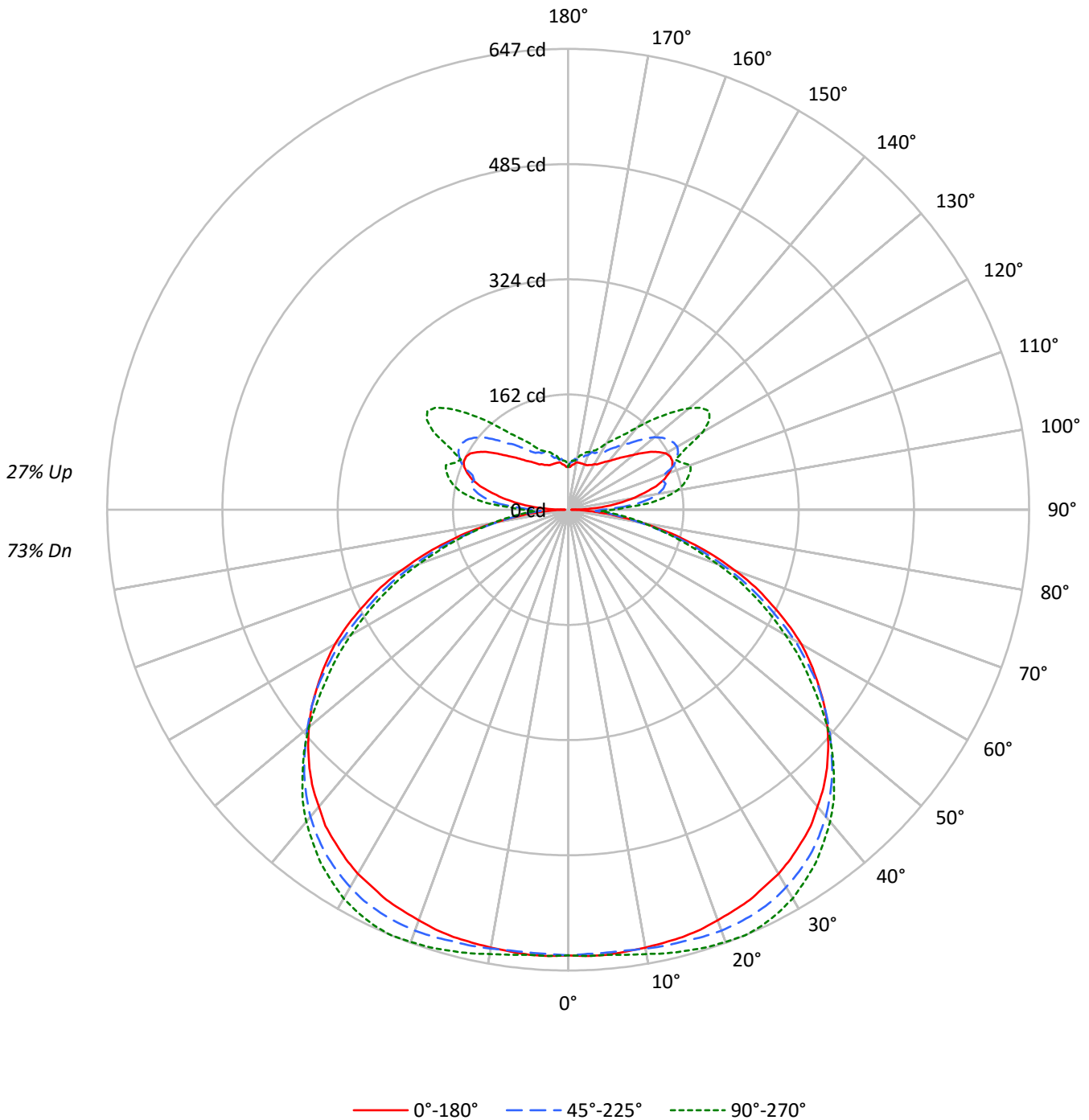
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78	75	73	70	67	65	64	60
2	92	84	77	72	87	80	74	69	72	67	63	65	61	58	58	55	53	49
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	41
4	77	65	56	49	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	57	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	25
7	60	46	38	32	56	44	36	31	40	34	29	37	31	27	33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20	18
10	48	35	27	22	46	34	27	22	31	25	20	28	23	19	26	21	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2108	2108	2108
5°	2121	2111	2121
10°	2136	2141	2167
15°	2167	2188	2236
20°	2200	2255	2315
25°	2246	2321	2395
30°	2297	2381	2452
35°	2346	2435	2492
40°	2394	2475	2516
45°	2447	2498	2513
50°	2490	2506	2490
55°	2520	2511	2430
60°	2549	2476	2373
65°	2513	2402	2304
70°	2454	2317	2196
75°	2302	2161	2082
80°	1999	1939	2088
85°	1604	2138	2498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	2.0
10°-20°	178.5	5.9
20°-30°	288.1	9.5
30°-40°	369.2	12.2
40°-50°	403.1	13.3
50°-60°	378.9	12.5
60°-70°	298.9	9.8
70°-80°	177.1	5.8
80°-90°	65.0	2.1
90°-100°	95.5	3.1
100°-110°	150.7	5.0
110°-120°	165.4	5.4
120°-130°	161.6	5.3
130°-140°	110.4	3.6
140°-150°	66.3	2.2
150°-160°	39.7	1.3
160°-170°	21.7	0.7
170°-180°	6.6	0.2
0°-30°	526.4	17.3
0°-40°	895.6	29.5
0°-60°	1677.6	55.2
0°-90°	2218.6	73.1
90°-120°	411.6	13.6
90°-150°	749.9	24.7
90°-180°	818.0	26.9
0°-180°	3036.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	627	627	624	627	627	60
15°	621	623	627	638	641	176
25°	604	610	624	640	644	279
35°	570	578	592	604	606	357
45°	514	518	524	529	527	396
55°	429	430	427	420	414	383
65°	315	312	301	295	289	312
75°	177	174	166	160	160	187
85°	42	45	55	63	65	47
90°	5	28	48	58	63	8
95°	52	74	97	114	118	50
105°	128	122	141	166	174	132
115°	161	155	168	166	166	158
125°	141	151	172	217	241	126
135°	103	115	137	168	186	80
145°	80	92	104	118	124	51
155°	69	78	88	91	92	32
165°	68	74	75	78	80	19
175°	63	69	68	69	69	6
180°	60	60	60	60	60	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.7	625.7	625.7	625.7	625.7
2.5°	627.2	627.2	624.2	627.2	627.2
5°	627.2	627.2	624.2	627.2	627.2
7.5°	625.7	625.7	624.2	630.3	630.3
10°	624.2	625.7	625.7	633.4	633.4
12.5°	622.6	624.2	627.2	634.9	638.0
15°	621.1	622.6	627.2	638.0	641.1
17.5°	618.0	621.1	628.8	641.1	644.2
20°	613.4	618.0	628.8	642.6	645.7
22.5°	608.8	615.0	627.2	641.1	647.2
25°	604.2	610.3	624.2	639.5	644.2
27.5°	596.5	604.2	619.6	633.4	638.0
30°	590.4	598.0	611.9	625.7	630.3
32.5°	581.1	588.8	602.7	615.0	618.0
35°	570.4	578.1	591.9	604.2	605.7
37.5°	559.6	567.3	578.1	587.3	588.8
40°	544.2	551.9	562.7	568.8	571.9
42.5°	530.4	538.1	544.2	550.4	551.9
45°	513.5	518.1	524.2	528.9	527.3
47.5°	495.0	499.6	501.2	505.8	502.7
50°	475.0	478.1	478.1	478.1	475.0
52.5°	453.5	453.5	453.5	448.9	444.3
55°	428.9	430.5	427.4	419.7	413.6
57.5°	404.3	404.3	396.6	389.0	384.3
60°	378.2	373.6	367.4	356.7	352.1
62.5°	347.4	342.8	333.6	325.9	321.3
65°	315.2	312.1	301.3	295.2	289.0
67.5°	284.4	279.8	269.0	259.8	258.3
70°	249.1	246.0	235.2	227.5	222.9
72.5°	213.7	209.1	199.9	193.7	189.1
75°	176.8	173.7	166.0	159.9	159.9
77.5°	141.4	138.4	130.7	130.7	130.7
80°	103.0	103.0	99.9	104.5	107.6
82.5°	70.7	70.7	75.3	83.0	84.6
85°	41.5	44.6	55.3	63.0	64.6
87.5°	18.4	26.1	38.4	44.6	46.1
90°	4.6	27.7	47.7	58.4	63.0
92.5°	27.7	52.3	72.3	79.9	83.0
95°	52.3	73.8	96.9	113.8	118.4
97.5°	72.3	87.6	115.3	133.8	138.4
100°	92.2	93.8	127.6	149.1	155.3
102.5°	109.2	107.6	136.8	158.3	166.0
105°	127.6	121.5	141.4	166.0	173.7
107.5°	141.4	132.2	138.4	172.2	179.9
110°	150.7	143.0	143.0	167.6	182.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	158.3	150.7	159.9	159.9	172.2
115°	161.4	155.3	167.6	166.0	166.0
117.5°	161.4	158.3	173.7	195.2	186.0
120°	158.3	159.9	176.8	213.7	218.3
122.5°	150.7	156.8	175.3	219.8	235.2
125°	141.4	150.7	172.2	216.8	241.4
127.5°	130.7	143.0	166.0	210.6	235.2
130°	119.9	133.8	158.3	198.3	221.4
132.5°	110.7	126.1	147.6	182.9	204.5
135°	103.0	115.3	136.8	167.6	186.0
137.5°	95.3	109.2	126.1	153.7	169.1
140°	89.2	104.5	119.9	138.4	150.7
142.5°	84.6	98.4	110.7	126.1	135.3
145°	79.9	92.2	104.5	118.4	124.5
147.5°	75.3	89.2	96.9	110.7	115.3
150°	73.8	84.6	92.2	103.0	107.6
152.5°	70.7	79.9	90.7	96.9	98.4
155°	69.2	78.4	87.6	90.7	92.2
157.5°	67.6	78.4	87.6	87.6	89.2
160°	67.6	73.8	81.5	87.6	86.1
162.5°	67.6	72.3	79.9	86.1	84.6
165°	67.6	73.8	75.3	78.4	79.9
167.5°	67.6	72.3	75.3	76.9	78.4
170°	67.6	69.2	70.7	75.3	72.3
172.5°	64.6	69.2	72.3	70.7	69.2
175°	63.0	69.2	67.6	69.2	69.2
177.5°	60.0	63.0	66.1	67.6	67.6
180°	60.0	60.0	60.0	60.0	60.0

(END OF REPORT)