

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: P213105

Luminaire Tested: **DSI-WD-20L840-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35735)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WD-20L840-1D-UNV-4-STD-SC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 1.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2095.5 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.38 / 1.47  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

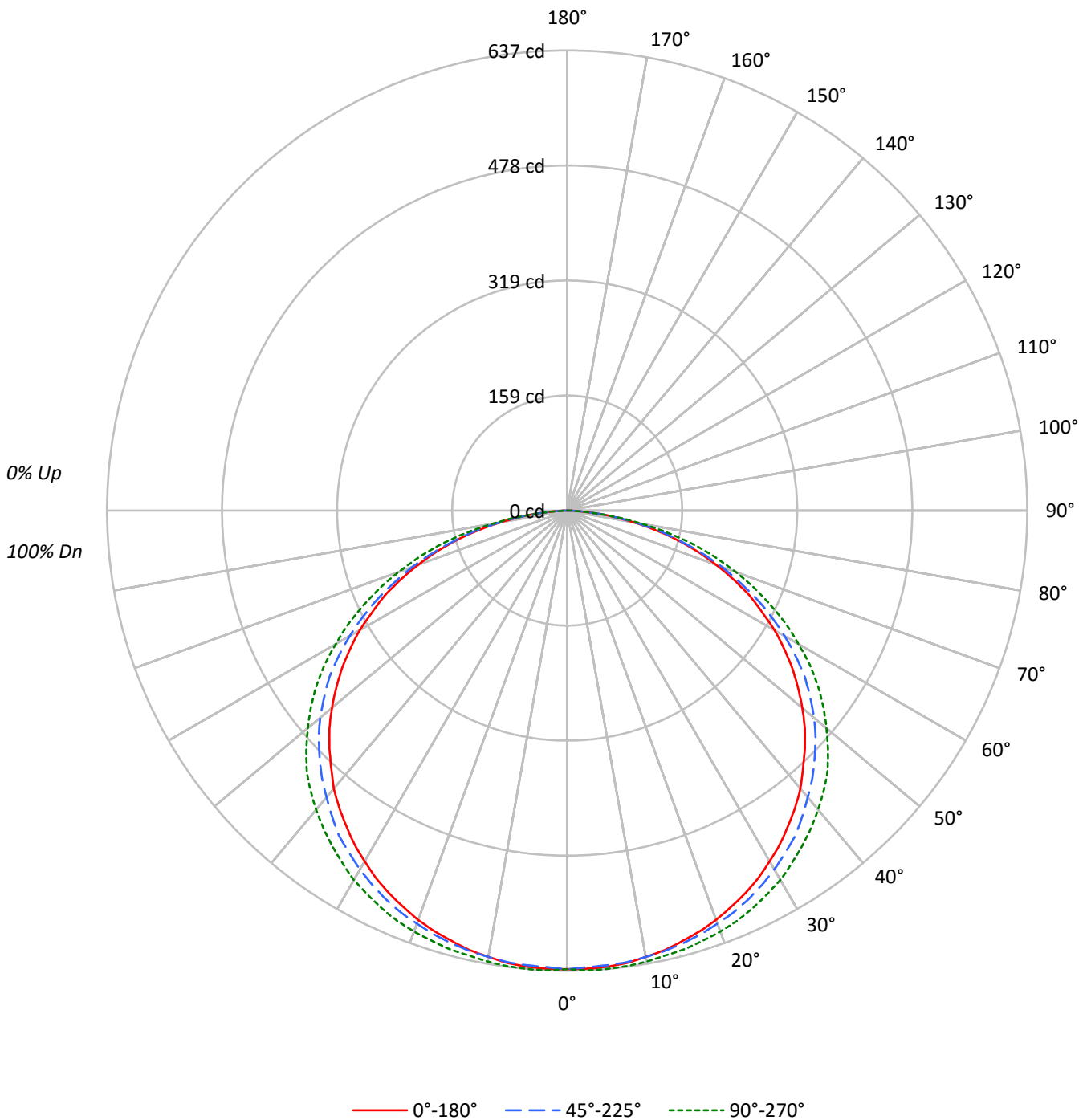
Input Watts (W): 15.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	58	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	2139	2139	2139
5°	2144	2137	2155
10°	2147	2147	2169
15°	2152	2163	2193
20°	2163	2182	2224
25°	2172	2207	2258
30°	2182	2231	2297
35°	2193	2263	2333
40°	2210	2280	2378
45°	2217	2308	2430
50°	2228	2340	2456
55°	2235	2360	2491
60°	2236	2343	2493
65°	2223	2307	2484
70°	2162	2245	2443
75°	2070	2097	2360
80°	1810	1851	2057
85°	1353	1353	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	2.9
10°-20°	175.9	8.4
20°-30°	274.5	13.1
30°-40°	344.3	16.4
40°-50°	375.2	17.9
50°-60°	358.5	17.1
60°-70°	288.9	13.8
70°-80°	175.0	8.4
80°-90°	42.8	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	510.8	24.4
0°-40°	855.0	40.8
0°-60°	1588.8	75.8
0°-90°	2095.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2095.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	634	635	632	636	637	60
15°	617	619	620	626	629	174
25°	584	586	594	603	607	269
35°	533	538	550	562	567	334
45°	465	473	484	501	510	359
55°	380	389	402	417	424	340
65°	279	283	289	303	312	274
75°	159	161	161	174	181	166
85°	35	34	35	34	33	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	634.9	634.9	634.9	634.9	634.9
2.5°	634.9	634.9	632.8	636.0	637.1
5°	633.9	634.9	631.8	636.0	637.1
7.5°	631.8	631.8	630.7	633.9	636.0
10°	627.5	628.6	627.5	631.8	633.9
12.5°	623.3	624.3	624.3	629.6	630.7
15°	616.9	619.0	620.1	626.5	628.6
17.5°	610.6	612.7	614.8	622.2	624.3
20°	603.1	606.3	608.4	616.9	620.1
22.5°	593.6	596.8	602.1	610.6	614.8
25°	584.1	586.2	593.6	603.1	607.4
27.5°	573.5	576.6	584.1	594.7	598.9
30°	560.7	566.0	573.5	585.1	590.4
32.5°	548.0	553.3	561.8	573.5	578.8
35°	533.2	538.5	550.1	561.8	567.1
37.5°	518.3	523.6	534.2	548.0	554.4
40°	502.4	507.7	518.3	534.2	540.6
42.5°	483.4	490.8	502.4	518.3	525.8
45°	465.3	472.8	484.4	501.4	509.9
47.5°	446.3	453.7	466.4	483.4	489.7
50°	425.1	432.5	446.3	462.2	468.5
52.5°	402.8	412.3	424.0	439.9	447.3
55°	380.5	389.0	401.7	416.6	424.0
57.5°	356.2	362.5	375.2	390.1	398.6
60°	331.8	337.1	347.7	362.5	369.9
62.5°	304.2	310.6	319.1	333.9	342.4
65°	278.8	283.0	289.4	303.2	311.6
67.5°	249.1	252.3	257.6	273.5	280.9
70°	219.4	223.7	227.9	241.7	248.0
72.5°	189.7	192.9	195.0	206.7	215.2
75°	159.0	161.1	161.1	173.8	181.3
77.5°	126.1	127.2	130.4	138.9	143.1
80°	93.3	96.5	95.4	101.8	106.0
82.5°	62.5	62.5	62.5	65.7	67.8
85°	35.0	33.9	35.0	33.9	32.9
87.5°	11.7	13.8	9.5	7.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)