

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P571638

Luminaire Tested: **DL2-BB-M-0U-XD-940-UNV-X-BSL6-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P571638  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-0U-XD-940-UNV-X-BSL6-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: BODINE 6 WATT (OUTPUT POWER) EMERGENCY BATTERY PACK

**Summary**

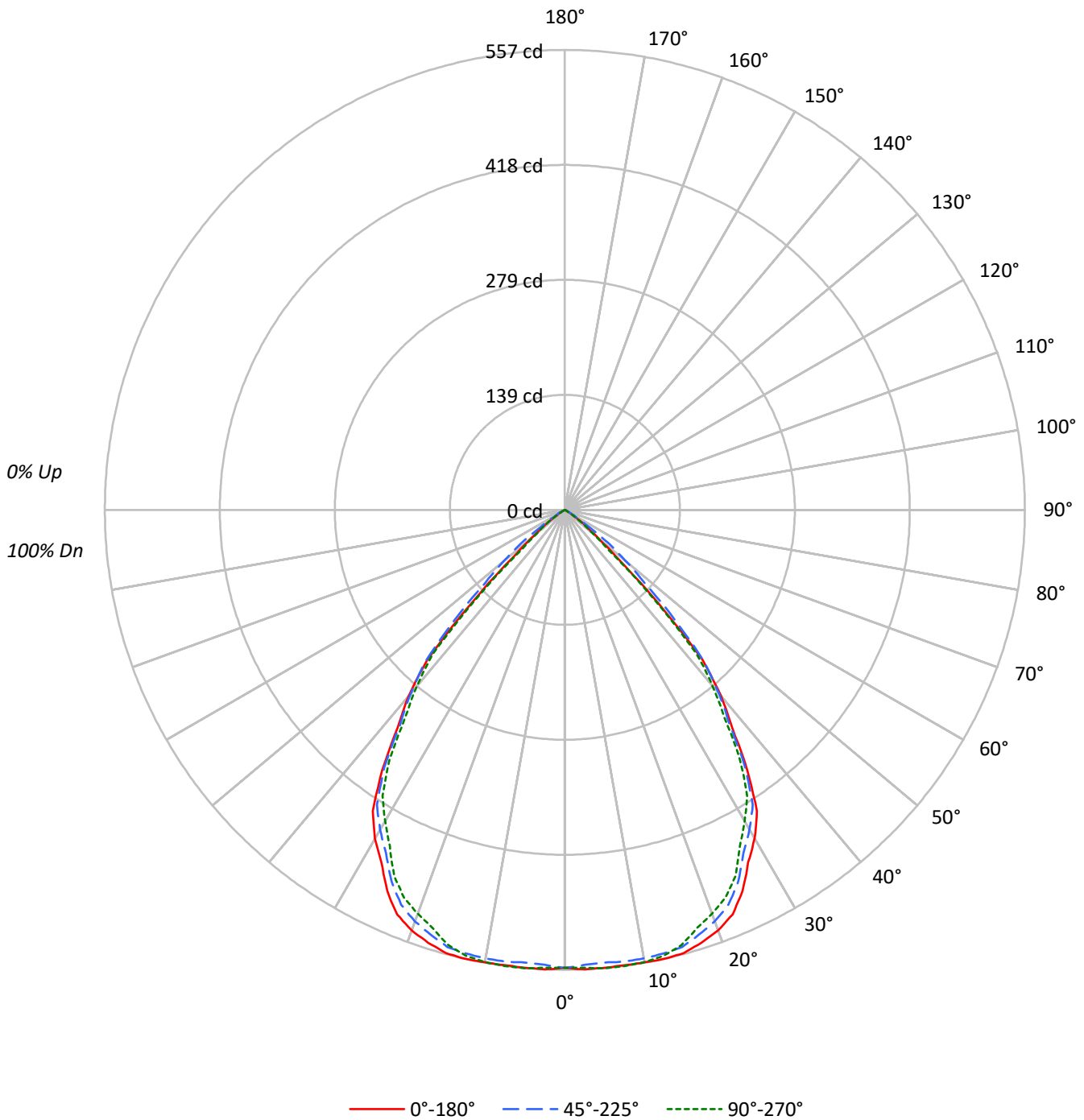
Lumens per Lamp: N/A  
Luminaire Lumens: 828.3 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
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: 24 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92	
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76	
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70	
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63	
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58	58	58	58	
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53	
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49	49	49	49	
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45	45	45	45	
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	47	43	42	42	42	42	

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

	0°	45°	90°
0°	8958	8958	8958
5°	9019	8919	9032
10°	9124	9042	9117
15°	9289	9163	9123
20°	9313	9115	8945
25°	9070	8849	8710
30°	8569	8337	8114
35°	7594	7504	7293
40°	6199	6112	5870
45°	3656	4316	3400
50°	1233	2404	1098
55°	419	859	442
60°	39	252	13
65°	0	15	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	6.4
10°-20°	155.2	18.7
20°-30°	228.4	27.6
30°-40°	233.3	28.2
40°-50°	134.1	16.2
50°-60°	23.4	2.8
60°-70°	0.8	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	436.6	52.7
0°-40°	669.9	80.9
0°-60°	827.5	99.9
0°-90°	828.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	556	555	550	558	557	53
15°	556	560	548	549	546	157
25°	509	514	497	491	489	233
35°	385	387	381	374	370	238
45°	160	186	189	179	149	125
55°	15	18	30	17	16	17
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	554.8	554.8	554.8	554.8	554.8
2.5°	557.1	555.9	551.5	556.5	555.2
5°	556.5	555.3	550.3	558.1	557.3
7.5°	556.2	555.2	551.9	558.7	557.1
10°	556.5	556.5	551.5	557.7	556.1
12.5°	557.1	558.8	550.5	555.3	553.1
15°	555.7	560.5	548.2	548.6	545.8
17.5°	549.7	556.2	539.4	535.4	531.2
20°	542.0	548.9	530.5	524.2	520.6
22.5°	530.5	537.0	517.6	512.3	508.4
25°	509.1	513.5	496.7	491.3	488.9
27.5°	481.0	483.2	468.6	463.0	459.0
30°	459.6	459.6	447.2	440.8	435.2
32.5°	432.8	431.5	423.4	416.1	410.8
35°	385.3	387.3	380.7	374.5	370.0
37.5°	332.7	334.7	327.9	320.8	317.7
40°	294.1	295.7	290.0	282.5	278.5
42.5°	246.6	255.3	250.1	241.9	236.5
45°	160.1	186.3	189.0	179.2	148.9
47.5°	83.4	110.8	131.0	100.1	70.1
50°	49.1	66.8	95.7	54.6	43.7
52.5°	31.6	39.3	67.3	34.9	29.5
55°	14.9	17.7	30.5	17.3	15.7
57.5°	5.5	8.3	13.8	8.3	6.0
60°	1.2	3.7	7.8	2.4	0.4
62.5°	0.2	1.1	4.5	0.5	0.1
65°	0.0	0.0	0.4	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)