

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: P559618

Luminaire Tested: **DL2-BB-M-025U-100D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559618  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G3-2104-222-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-025U-100D-930-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

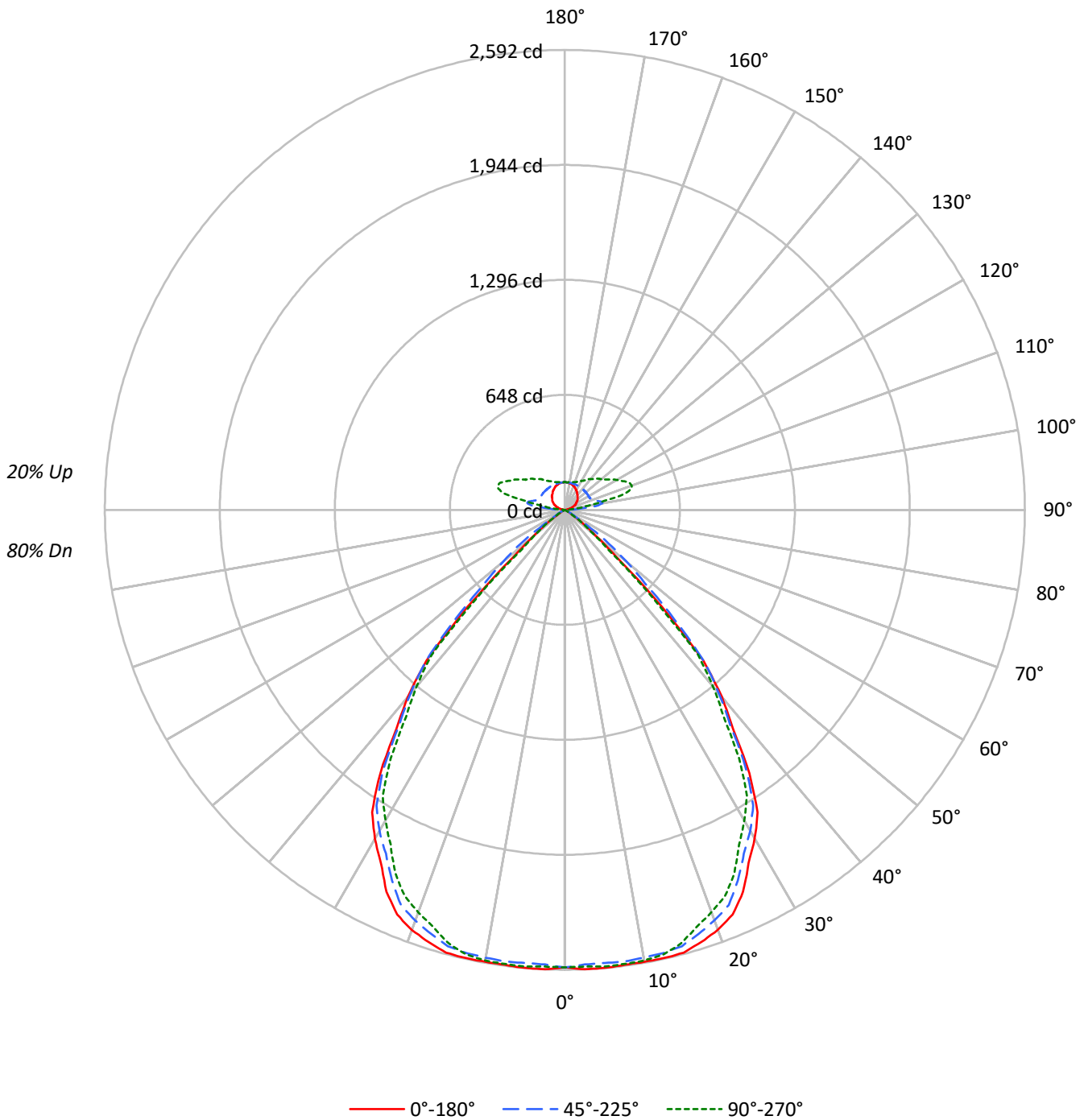
Lumens per Lamp: N/A  
Luminaire Lumens: 4822.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.6  
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: 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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	108	104	101	99	103	100	98	95	92	91	89	85	84	83	79	78	77	74
2	101	95	90	86	97	92	87	84	85	82	79	79	77	74	74	72	70	67
3	94	87	81	76	91	84	79	74	78	74	71	73	70	67	68	66	64	61
4	88	79	73	68	85	77	71	67	72	67	64	68	64	61	64	60	58	56
5	82	73	66	61	79	71	64	60	66	61	57	63	58	55	59	56	53	51
6	77	67	60	55	74	65	59	54	61	56	52	58	54	50	55	51	48	46
7	72	62	55	50	70	60	54	49	57	51	47	54	49	46	51	47	44	42
8	68	57	50	46	66	56	49	45	53	47	43	50	46	42	48	44	41	39
9	64	53	46	42	62	52	45	41	49	44	40	47	42	39	45	41	38	36
10	60	49	43	38	58	48	42	38	46	40	37	44	39	36	42	38	35	33

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

	0°	45°	90°
0°	41632	41632	41632
5°	41995	41540	41885
10°	42401	42020	42291
15°	43181	42552	42293
20°	43292	42328	41465
25°	42321	41065	40256
30°	39895	38941	37697
35°	35743	35114	33705
40°	28995	28507	27387
45°	17648	20007	15840
50°	5629	11308	5144
55°	1959	4107	2013
60°	155	1185	32
65°	0	73	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°	246.4	5.1
10°-20°	720.6	14.9
20°-30°	1062.1	22.0
30°-40°	1087.7	22.6
40°-50°	626.8	13.0
50°-60°	109.8	2.3
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	62.9	1.3
100°-110°	195.6	4.1
110°-120°	191.4	4.0
120°-130°	156.3	3.2
130°-140°	127.8	2.7
140°-150°	99.8	2.1
150°-160°	72.0	1.5
160°-170°	44.0	0.9
170°-180°	14.8	0.3
0°-30°	2029.2	42.1
0°-40°	3116.8	64.6
0°-60°	3853.4	79.9
0°-90°	3858.1	80.0
90°-120°	450.0	9.3
90°-150°	833.8	17.3
90°-180°	965.0	20.0
0°-180°	4822.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2591	2585	2563	2594	2584	247
15°	2583	2604	2546	2545	2530	727
25°	2376	2394	2305	2284	2260	1084
35°	1813	1803	1782	1738	1710	1113
45°	773	864	876	832	694	592
55°	70	84	146	79	72	78
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	3	3	0
95°	9	25	115	43	28	10
105°	34	48	193	368	351	36
115°	61	72	156	323	378	60
125°	85	94	154	254	298	75
135°	102	113	154	219	246	79
145°	119	128	154	189	206	75
155°	136	141	154	170	176	63
165°	150	151	155	160	162	42
175°	155	155	155	156	155	15
180°	155	155	155	155	155	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.5	2578.5	2578.5	2578.5	2578.5
2.5°	2591.6	2584.8	2564.6	2585.2	2576.2
5°	2591.1	2585.4	2563.0	2593.7	2584.3
7.5°	2586.2	2584.9	2567.7	2591.8	2581.0
10°	2586.2	2591.0	2563.0	2588.0	2579.5
12.5°	2587.8	2598.5	2558.4	2577.8	2565.6
15°	2583.3	2604.1	2545.7	2545.3	2530.2
17.5°	2554.3	2578.9	2505.3	2485.3	2465.1
20°	2519.6	2547.9	2463.5	2435.0	2413.3
22.5°	2469.3	2496.9	2411.0	2378.6	2356.9
25°	2375.6	2393.6	2305.1	2284.2	2259.7
27.5°	2242.7	2253.3	2184.5	2148.5	2126.4
30°	2139.9	2147.4	2088.7	2049.4	2022.0
32.5°	2020.9	2017.8	1975.1	1935.1	1909.2
35°	1813.4	1803.0	1781.5	1738.3	1710.0
37.5°	1558.1	1556.2	1534.9	1497.5	1467.9
40°	1375.7	1373.8	1352.5	1319.2	1299.4
42.5°	1154.7	1190.6	1165.5	1124.6	1112.4
45°	772.9	864.5	876.2	832.5	693.7
47.5°	398.8	521.2	610.2	475.3	329.2
50°	224.1	314.8	450.2	254.9	204.8
52.5°	146.1	189.9	314.2	162.7	137.6
55°	69.6	83.7	145.9	79.0	71.5
57.5°	24.9	38.5	63.8	39.1	24.2
60°	4.8	16.2	36.7	11.4	1.0
62.5°	1.7	4.8	21.3	3.0	1.0
65°	0.0	0.9	1.9	0.9	0.0
67.5°	0.0	0.8	0.8	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	0.2	0.6	0.6	0.6
90°	0.0	0.9	2.9	2.9	2.9
92.5°	3.1	10.7	36.4	12.0	9.7
95°	8.6	25.4	115.4	42.6	27.7
97.5°	15.6	33.0	191.1	119.0	75.0
100°	21.0	36.8	215.5	201.6	134.5
102.5°	26.3	41.4	210.9	287.9	226.0
105°	34.3	48.3	192.6	367.7	350.9
107.5°	42.3	55.4	175.1	373.8	392.3
110°	47.7	60.7	165.9	365.1	401.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.0	65.3	161.3	349.3	395.4
115°	61.0	72.2	156.4	322.6	377.6
117.5°	68.8	79.1	154.3	297.1	353.4
120°	73.4	83.7	153.5	282.5	336.6
122.5°	78.0	88.3	154.3	270.2	319.8
125°	84.9	94.2	154.5	253.7	297.5
127.5°	90.4	99.9	154.5	241.3	278.6
130°	93.5	103.7	154.5	234.4	268.0
132.5°	97.3	107.5	153.7	228.2	259.6
135°	102.0	113.2	153.5	219.0	246.0
137.5°	107.6	117.8	153.5	209.8	234.4
140°	110.6	120.9	153.5	203.6	226.0
142.5°	114.4	123.9	153.5	197.5	217.6
145°	119.2	128.5	153.5	189.2	206.0
147.5°	124.9	132.9	154.5	181.5	194.7
150°	128.7	135.3	154.5	177.6	187.9
152.5°	131.8	137.6	154.5	173.8	182.5
155°	136.4	141.0	154.5	169.9	175.5
157.5°	140.9	144.5	154.5	166.4	169.9
160°	144.0	146.8	154.5	164.1	166.9
162.5°	146.3	148.3	154.5	162.5	164.6
165°	149.7	150.6	155.4	160.2	162.1
167.5°	151.8	152.0	154.5	158.9	159.8
170°	152.6	153.5	154.5	157.4	158.3
172.5°	154.1	154.3	155.2	156.6	156.8
175°	155.4	155.4	155.4	156.4	155.4
177.5°	155.4	155.4	155.4	155.4	155.4
180°	155.4	155.4	155.4	155.4	155.4

(END OF REPORT)