

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: P559632

Luminaire Tested: **DL2-BB-M-050U-100D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

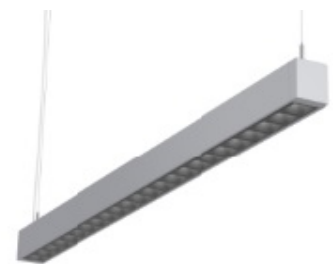
**Test Information**

Test Method: LM-79-08  
Report Number: P559632  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, 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-050U-100D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

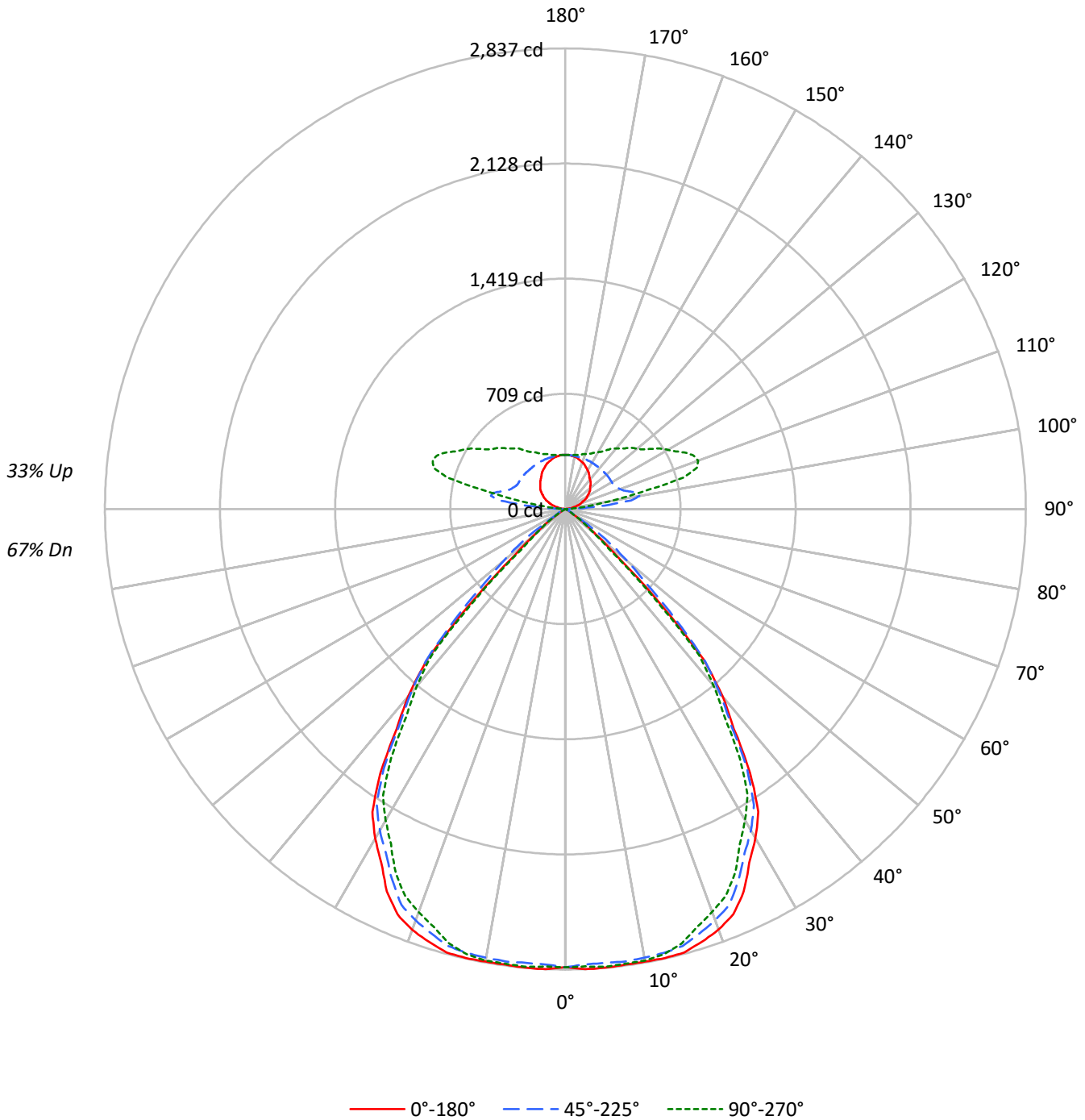
Lumens per Lamp: N/A  
Luminaire Lumens: 6293.6 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.9  
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	104	101	98	95	98	95	93	91	85	83	82	76	75	74	68	67	66	62				
2	97	91	87	82	92	87	83	79	78	75	72	70	68	66	63	61	60	56				
3	91	83	77	72	86	79	74	70	72	68	64	65	62	59	59	56	54	51				
4	85	76	69	64	80	72	66	62	66	61	58	60	56	53	54	52	49	47				
5	79	69	62	57	75	66	60	55	60	56	52	55	51	48	50	47	45	43				
6	74	63	56	51	70	61	54	50	56	51	47	51	47	44	47	44	41	39				
7	69	58	51	46	65	56	49	45	51	46	43	47	43	40	44	40	38	36				
8	65	54	47	42	61	52	45	41	48	42	39	44	40	37	41	37	35	33				
9	61	50	43	38	58	48	42	37	44	39	36	41	37	34	38	34	32	30				
10	57	46	39	35	54	44	38	34	41	36	33	38	34	31	36	32	30	28				

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

	0°	45°	90°
0°	45580	45580	45580
5°	45977	45480	45858
10°	46422	46006	46301
15°	47276	46588	46303
20°	47397	46343	45398
25°	46335	44960	44074
30°	43678	42634	41273
35°	39131	38443	36902
40°	31746	31211	29984
45°	19322	21904	17340
50°	6164	12381	5632
55°	2145	4495	2204
60°	171	1298	36
65°	0	80	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°	269.8	4.3
10°-20°	788.9	12.5
20°-30°	1162.9	18.5
30°-40°	1190.8	18.9
40°-50°	686.2	10.9
50°-60°	120.2	1.9
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	132.7	2.1
100°-110°	421.1	6.7
110°-120°	412.9	6.6
120°-130°	336.0	5.3
130°-140°	273.9	4.4
140°-150°	213.6	3.4
150°-160°	153.9	2.4
160°-170°	94.0	1.5
170°-180°	31.7	0.5
0°-30°	2221.6	35.3
0°-40°	3412.4	54.2
0°-60°	4218.8	67.0
0°-90°	4224.0	67.1
90°-120°	966.7	15.4
90°-150°	1790.2	28.4
90°-180°	2070.0	32.9
0°-180°	6293.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2837	2831	2806	2840	2829	270
15°	2828	2851	2787	2787	2770	796
25°	2601	2621	2524	2501	2474	1187
35°	1985	1974	1950	1903	1872	1218
45°	846	946	959	912	759	648
55°	76	92	160	86	78	85
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	1
95°	18	54	241	89	58	21
105°	73	103	415	791	758	77
115°	131	156	335	697	820	129
125°	181	203	330	546	644	161
135°	219	241	328	470	529	169
145°	256	275	328	405	441	160
155°	291	302	329	362	376	134
165°	318	321	330	343	346	90
175°	332	331	332	334	333	31
180°	333	333	333	333	333	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2837.4	2830.0	2807.8	2830.4	2820.5
5°	2836.8	2830.6	2806.1	2839.7	2829.4
7.5°	2831.5	2830.0	2811.2	2837.6	2825.8
10°	2831.5	2836.7	2806.1	2833.4	2824.1
12.5°	2833.2	2845.0	2801.0	2822.3	2808.9
15°	2828.3	2851.1	2787.1	2786.7	2770.1
17.5°	2796.6	2823.5	2742.9	2721.0	2698.9
20°	2758.5	2789.5	2697.2	2666.0	2642.2
22.5°	2703.5	2733.7	2639.6	2604.2	2580.4
25°	2600.9	2620.6	2523.7	2500.9	2474.0
27.5°	2455.4	2467.0	2391.7	2352.2	2328.0
30°	2342.8	2351.1	2286.8	2243.8	2213.8
32.5°	2212.5	2209.2	2162.4	2118.6	2090.3
35°	1985.3	1974.0	1950.4	1903.2	1872.2
37.5°	1705.9	1703.8	1680.5	1639.6	1607.1
40°	1506.2	1504.1	1480.8	1444.3	1422.6
42.5°	1264.2	1303.5	1276.0	1231.3	1217.9
45°	846.2	946.5	959.3	911.5	759.4
47.5°	436.6	570.7	668.1	520.4	360.5
50°	245.4	344.7	492.9	279.0	224.2
52.5°	159.9	207.9	344.0	178.1	150.6
55°	76.2	91.7	159.7	86.5	78.3
57.5°	27.3	42.2	69.8	42.8	26.4
60°	5.3	17.7	40.2	12.4	1.1
62.5°	1.9	5.2	23.3	3.3	1.1
65°	0.0	1.0	2.1	1.0	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	1.0	3.1	3.1	3.1
92.5°	5.9	23.3	74.4	24.8	17.4
95°	17.8	53.7	241.1	89.4	57.6
97.5°	33.1	69.6	408.3	255.2	156.6
100°	44.0	78.9	465.4	424.3	275.7
102.5°	55.8	89.0	455.3	623.0	476.9
105°	73.4	103.1	415.1	790.6	757.8
107.5°	91.0	118.4	376.7	808.0	852.3
110°	102.7	129.4	357.4	787.9	869.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	114.5	139.5	346.5	753.2	857.4
115°	131.0	155.6	335.4	696.6	819.6
117.5°	147.2	170.5	331.0	642.2	766.2
120°	157.2	179.8	330.2	608.5	728.4
122.5°	167.3	189.0	330.2	581.5	693.2
125°	181.3	202.8	330.2	546.2	643.5
127.5°	193.7	214.4	330.2	518.8	601.8
130°	201.2	222.8	330.2	502.7	577.5
132.5°	208.8	230.3	329.3	490.0	557.4
135°	219.1	240.6	328.1	469.9	529.3
137.5°	229.1	251.7	327.8	450.6	503.7
140°	235.8	258.4	327.0	437.1	485.3
142.5°	244.2	265.9	327.8	423.6	468.5
145°	255.7	275.2	328.1	405.4	441.3
147.5°	267.3	283.9	328.3	389.3	418.6
150°	275.7	289.0	329.1	380.0	403.5
152.5°	282.4	294.0	329.1	372.3	391.8
155°	291.4	301.6	329.1	361.9	376.3
157.5°	301.0	308.0	330.2	355.5	365.4
160°	306.0	312.2	330.2	351.3	359.5
162.5°	311.1	315.6	330.2	347.9	353.6
165°	317.6	320.7	330.2	342.8	345.9
167.5°	323.7	324.5	331.2	339.2	341.9
170°	327.0	327.0	331.2	337.5	338.5
172.5°	328.7	329.5	331.2	335.8	336.0
175°	332.3	331.2	332.3	334.3	333.3
177.5°	333.3	332.5	332.5	334.1	332.5
180°	333.3	333.3	333.3	333.3	333.3

(END OF REPORT)