

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: P559716

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

Issue Date: 3/5/2020

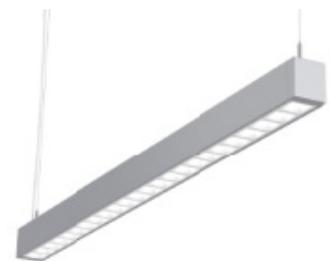
**Test Information**

Test Method: LM-79-08  
Report Number: P559716  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, G3-2104-222-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-WB-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**

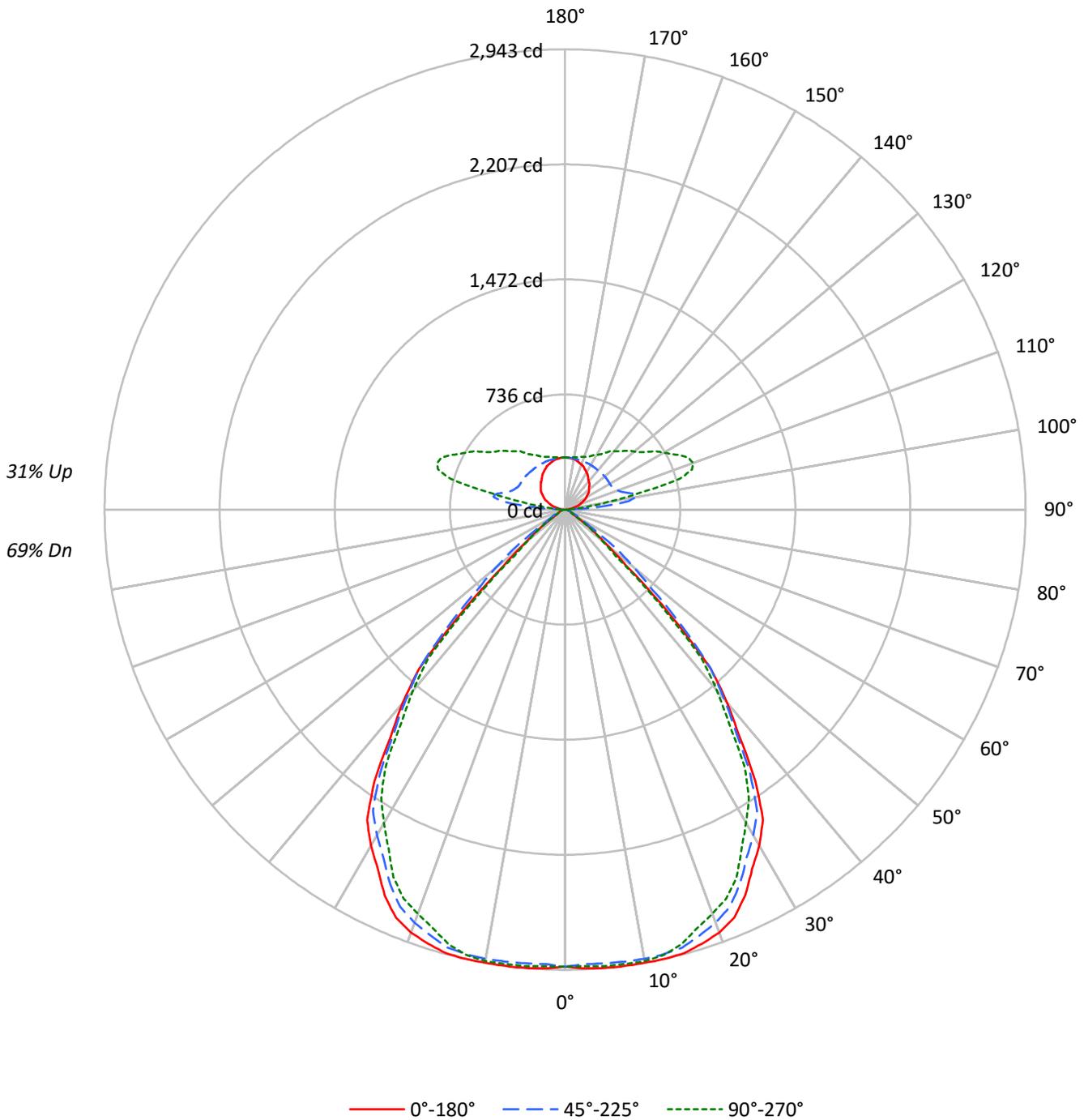
Lumens per Lamp: N/A  
Luminaire Lumens: 6681.7 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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



TEST NUMBER: P559716  
CATALOG NUMBER: DL2-WB-M-050U-100D-940-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P559716

CATALOG NUMBER: DL2-WB-M-050U-100D-940-UNV-STD-W-4

**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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	74	74	74	69				
1	104	101	98	95	99	96	93	91	86	84	82	77	76	74	69	68	67	63				
2	97	91	86	82	92	87	83	79	79	75	72	71	68	66	64	62	61	57				
3	91	83	77	72	86	79	74	69	72	68	64	65	62	59	59	57	55	52				
4	84	75	69	63	80	72	66	61	66	61	57	60	56	53	55	52	50	47				
5	79	69	62	56	75	66	59	55	60	55	51	55	51	48	51	48	45	43				
6	73	63	56	51	70	60	54	49	56	50	46	51	47	44	47	44	41	39				
7	69	58	51	46	65	55	49	44	51	46	42	47	43	40	44	40	38	35				
8	64	53	46	41	61	51	45	40	47	42	38	44	40	36	41	37	34	32				
9	60	49	42	38	57	47	41	37	44	39	35	41	37	33	38	34	32	30				
10	57	46	39	34	54	44	38	34	41	36	32	38	34	31	36	32	29	28				

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

	0°	45°	90°
0°	47180	47180	47180
5°	47686	47188	47496
10°	48237	47803	48063
15°	49091	48455	48084
20°	49462	48318	47245
25°	48515	47101	46198
30°	46236	44836	43121
35°	41837	40627	39356
40°	33970	33280	31809
45°	21758	24172	19559
50°	8528	14318	7676
55°	4020	6550	4020
60°	1912	3178	1741
65°	1738	1819	1616
70°	1648	1699	1548
75°	1647	1647	1516
80°	1571	1571	1478
85°	1371	1371	1371



TEST NUMBER: P559716

CATALOG NUMBER: DL2-WB-M-050U-100D-940-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.9	4.2
10°-20°	820.3	12.3
20°-30°	1217.4	18.2
30°-40°	1264.5	18.9
40°-50°	761.0	11.4
50°-60°	182.4	2.7
60°-70°	49.5	0.7
70°-80°	27.8	0.4
80°-90°	9.1	0.1
90°-100°	132.7	2.0
100°-110°	421.1	6.3
110°-120°	412.9	6.2
120°-130°	336.0	5.0
130°-140°	273.9	4.1
140°-150°	213.6	3.2
150°-160°	153.9	2.3
160°-170°	94.0	1.4
170°-180°	31.7	0.5
0°-30°	2317.6	34.7
0°-40°	3582.1	53.6
0°-60°	4525.6	67.7
0°-90°	4611.9	69.0
90°-120°	966.7	14.5
90°-150°	1790.2	26.8
90°-180°	2070.0	31.0
0°-180°	6681.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2922	2922	2922	2922	2922	
5°	2942	2935	2912	2942	2930	281
15°	2937	2958	2899	2897	2877	828
25°	2723	2742	2644	2609	2593	1246
35°	2123	2103	2061	2020	1997	1300
45°	953	1066	1059	1008	857	728
55°	143	161	233	155	143	147
65°	46	46	48	45	42	45
75°	26	28	26	25	24	27
85°	7	8	7	7	7	8
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	



TEST NUMBER: P559716

CATALOG NUMBER: DL2-WB-M-050U-100D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2936.5	2929.9	2908.6	2932.0	2922.1
5°	2942.2	2934.9	2911.5	2941.9	2930.5
7.5°	2943.0	2943.4	2915.7	2942.5	2929.9
10°	2942.2	2948.4	2915.7	2940.9	2931.6
12.5°	2943.0	2953.4	2912.4	2930.6	2916.4
15°	2936.9	2957.6	2898.8	2897.3	2876.6
17.5°	2910.0	2935.7	2856.1	2831.6	2807.2
20°	2878.7	2903.5	2812.1	2776.6	2749.7
22.5°	2824.6	2850.2	2749.5	2711.6	2692.2
25°	2723.3	2741.9	2643.9	2608.7	2593.2
27.5°	2590.0	2596.0	2510.7	2469.7	2443.2
30°	2480.0	2485.2	2404.9	2358.4	2312.9
32.5°	2354.0	2345.1	2283.9	2233.2	2186.0
35°	2122.6	2102.9	2061.2	2019.5	1996.7
37.5°	1829.2	1824.2	1793.9	1743.7	1716.4
40°	1611.7	1628.3	1579.0	1542.3	1509.2
42.5°	1379.1	1419.6	1376.8	1324.9	1296.8
45°	952.9	1065.6	1058.6	1007.6	856.6
47.5°	529.8	671.7	757.0	593.8	439.3
50°	339.5	436.7	570.0	358.4	305.6
52.5°	238.0	291.3	421.1	254.0	225.3
55°	142.8	161.4	232.7	155.2	142.8
57.5°	86.3	104.3	132.2	104.0	84.4
60°	59.2	74.7	98.4	69.4	53.9
62.5°	51.6	57.2	76.4	54.4	48.9
65°	45.5	46.5	47.6	45.4	42.3
67.5°	39.1	41.2	40.2	39.3	37.0
70°	34.9	37.0	36.0	35.9	32.8
72.5°	31.5	33.6	32.6	31.7	29.4
75°	26.4	27.5	26.4	25.4	24.3
77.5°	20.3	21.3	21.2	20.3	19.2
80°	16.9	18.0	16.9	16.9	15.9
82.5°	13.5	13.7	13.5	12.7	12.5
85°	7.4	8.4	7.4	7.4	7.4
87.5°	2.5	2.7	3.2	3.2	3.2
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



TEST NUMBER: P559716

CATALOG NUMBER: DL2-WB-M-050U-100D-940-UNV-STD-W-4

**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)