

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: P559626

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

Issue Date: 3/5/2020

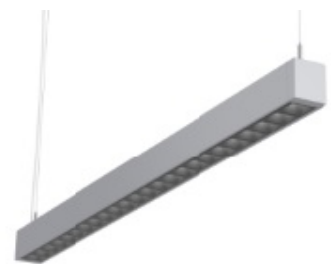
**Test Information**

Test Method: LM-79-08  
Report Number: P559626  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, 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-050U-050D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4213.2 lumens  
Efficiency: N/A  
Efficacy: 128.1 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: General Diffuse

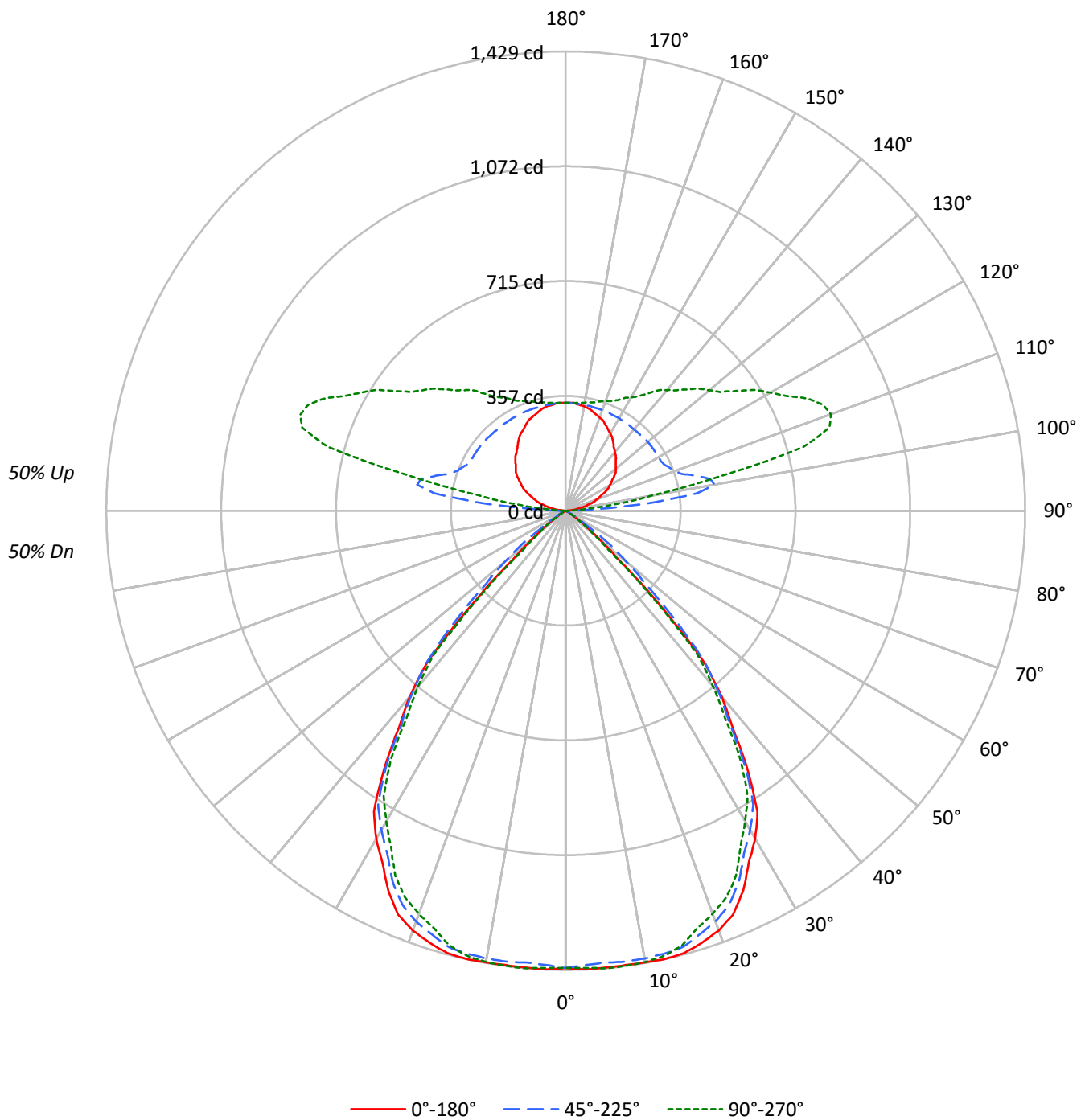
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57
1	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	52
2	93	87	82	77	86	81	76	73	69	66	64	59	57	55	49	48	47
3	86	78	72	67	80	73	68	63	63	59	56	54	51	49	46	44	42
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	42	40	38
5	74	64	57	52	69	60	54	49	53	48	44	46	42	40	39	37	35
6	69	58	51	46	64	55	49	44	48	44	40	42	39	36	36	34	32
7	64	53	46	41	60	50	44	40	44	40	36	39	35	33	34	31	29
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	32	29	27
9	56	45	38	34	52	43	37	33	38	33	30	34	30	27	29	27	25
10	53	42	35	31	49	40	34	30	35	31	27	31	28	25	28	25	23

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

	0°	45°	90°
0°	22972	22972	22972
5°	23130	22872	23164
10°	23397	23189	23379
15°	23818	23500	23395
20°	23883	23374	22938
25°	23256	22691	22333
30°	21971	21379	20806
35°	19474	19245	18703
40°	15898	15675	15051
45°	9373	11063	8720
50°	3162	6164	2816
55°	1072	2204	1132
60°	103	649	36
65°	0	42	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°	135.9	3.2
10°-20°	398.0	9.4
20°-30°	585.6	13.9
30°-40°	598.3	14.2
40°-50°	344.0	8.2
50°-60°	60.1	1.4
60°-70°	2.2	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	134.0	3.2
100°-110°	424.9	10.1
110°-120°	416.6	9.9
120°-130°	339.0	8.0
130°-140°	276.4	6.6
140°-150°	215.5	5.1
150°-160°	155.3	3.7
160°-170°	94.9	2.3
170°-180°	32.0	0.8
0°-30°	1119.5	26.6
0°-40°	1717.8	40.8
0°-60°	2122.0	50.4
0°-90°	2124.7	50.4
90°-120°	975.5	23.2
90°-150°	1806.5	42.9
90°-180°	2089.0	49.6
0°-180°	4213.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1427	1424	1411	1431	1429	136
15°	1425	1437	1406	1407	1400	401
25°	1305	1317	1274	1260	1254	597
35°	988	993	976	960	949	610
45°	410	478	484	460	382	321
55°	38	45	78	44	40	43
65°	0	0	1	0	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	243	90	58	21
105°	74	104	419	798	765	78
115°	132	157	338	703	827	131
125°	183	205	333	551	649	163
135°	221	243	331	474	534	171
145°	258	278	331	409	445	162
155°	294	304	332	365	380	136
165°	320	324	333	346	349	90
175°	335	334	335	337	336	32
180°	336	336	336	336	336	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1422.8	1422.8	1422.8	1422.8	1422.8
2.5°	1428.8	1425.4	1414.4	1427.0	1423.7
5°	1427.1	1424.0	1411.2	1431.2	1429.2
7.5°	1426.2	1423.7	1415.2	1432.7	1428.5
10°	1427.1	1427.1	1414.4	1430.1	1426.0
12.5°	1428.8	1432.9	1411.8	1424.2	1418.4
15°	1424.9	1437.4	1405.9	1406.8	1399.6
17.5°	1409.5	1426.3	1383.3	1373.1	1362.1
20°	1390.0	1407.6	1360.4	1344.3	1335.0
22.5°	1360.4	1377.2	1327.4	1313.8	1303.7
25°	1305.4	1316.8	1273.7	1259.8	1253.6
27.5°	1233.5	1239.3	1201.7	1187.3	1177.0
30°	1178.5	1178.5	1146.7	1130.5	1116.0
32.5°	1109.9	1106.6	1085.8	1067.1	1053.4
35°	988.0	993.2	976.4	960.3	948.9
37.5°	853.3	858.2	841.0	822.6	814.8
40°	754.3	758.4	743.7	724.4	714.1
42.5°	632.4	654.7	641.3	620.2	606.6
45°	410.5	477.7	484.5	459.5	381.9
47.5°	213.9	284.2	336.0	256.6	179.8
50°	125.9	171.4	245.4	140.1	112.1
52.5°	81.0	100.9	172.6	89.6	75.7
55°	38.1	45.3	78.3	44.3	40.2
57.5°	14.2	21.2	35.3	21.4	15.4
60°	3.2	9.4	20.1	6.2	1.1
62.5°	0.6	2.7	11.6	1.2	0.2
65°	0.0	0.0	1.1	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	0.2	0.6	0.6	0.6
90°	0.0	1.0	3.2	3.2	3.2
92.5°	5.9	23.5	75.1	25.0	17.6
95°	18.0	54.2	243.3	90.2	58.2
97.5°	33.4	70.2	412.1	257.5	158.0
100°	44.4	79.6	469.6	428.1	278.2
102.5°	56.3	89.8	459.5	628.7	481.2
105°	74.0	104.0	418.8	797.8	764.7
107.5°	91.8	119.5	380.1	815.4	860.1
110°	103.7	130.5	360.7	795.1	877.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	115.5	140.7	349.7	760.1	865.2
115°	132.2	157.0	338.5	703.0	827.1
117.5°	148.5	172.1	334.0	648.0	773.2
120°	158.7	181.4	333.2	614.1	735.1
122.5°	168.8	190.7	333.2	586.8	699.5
125°	183.0	204.7	333.2	551.2	649.4
127.5°	195.5	216.3	333.2	523.5	607.3
130°	203.1	224.8	333.2	507.3	582.8
132.5°	210.7	232.4	332.3	494.4	562.5
135°	221.1	242.8	331.1	474.1	534.1
137.5°	231.2	254.0	330.8	454.7	508.3
140°	238.0	260.7	330.0	441.1	489.7
142.5°	246.4	268.4	330.8	427.5	472.8
145°	258.1	277.7	331.1	409.1	445.3
147.5°	269.7	286.5	331.3	392.9	422.4
150°	278.2	291.6	332.1	383.4	407.2
152.5°	284.9	296.7	332.1	375.7	395.4
155°	294.0	304.4	332.1	365.2	379.7
157.5°	303.8	310.8	333.2	358.8	368.7
160°	308.8	315.0	333.2	354.5	362.8
162.5°	313.9	318.5	333.2	351.1	356.9
165°	320.5	323.6	333.2	345.9	349.0
167.5°	326.6	327.4	334.2	342.3	345.0
170°	330.0	330.0	334.2	340.6	341.6
172.5°	331.7	332.5	334.2	338.9	339.1
175°	335.3	334.2	335.3	337.4	336.3
177.5°	336.3	335.5	335.5	337.1	335.5
180°	336.3	336.3	336.3	336.3	336.3

(END OF REPORT)