

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: P559636

Luminaire Tested: **DL2-BB-M-075U-050D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559636  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, 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-075U-050D-930-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

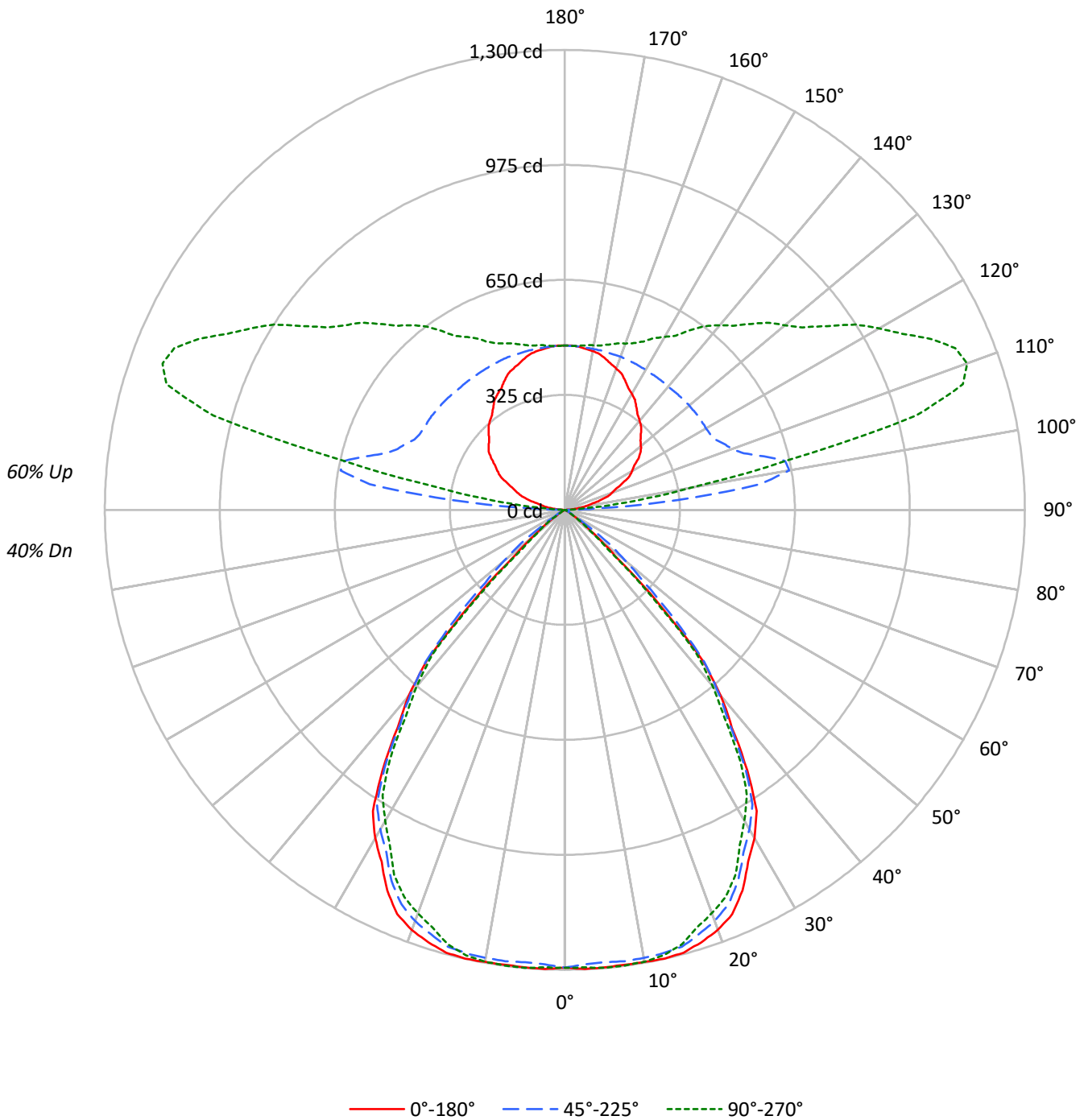
Lumens per Lamp: N/A  
Luminaire Lumens: 4808.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 41.4  
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	97	94	90	87	89	86	83	80	71	69	67	57	56	55	44	43	43	37				
2	90	84	78	74	82	77	72	69	64	61	58	52	50	48	41	40	39	34				
3	83	75	69	64	76	69	64	59	58	54	51	47	45	43	38	36	35	31				
4	77	68	61	56	70	62	57	52	53	48	45	43	41	38	35	33	32	28				
5	71	61	54	49	65	57	50	46	48	43	40	40	37	34	32	30	29	25				
6	66	55	48	43	61	51	45	41	44	39	36	37	33	31	30	28	26	23				
7	61	51	43	38	56	47	41	36	40	36	32	34	30	28	28	26	24	21				
8	57	46	39	35	53	43	37	33	37	32	29	31	28	25	26	24	22	20				
9	54	42	36	31	49	40	34	30	34	30	26	29	26	23	24	22	20	18				
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	20	19	17				

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

	0°	45°	90°
0°	20891	20891	20891
5°	21032	20799	21063
10°	21276	21087	21259
15°	21660	21371	21274
20°	21718	21256	20859
25°	21148	20633	20307
30°	19978	19442	18921
35°	17710	17501	17008
40°	14457	14254	13685
45°	8522	10061	7930
50°	2876	5606	2562
55°	974	2004	1030
60°	94	591	32
65°	0	38	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°	123.6	2.6
10°-20°	361.9	7.5
20°-30°	532.5	11.1
30°-40°	544.1	11.3
40°-50°	312.8	6.5
50°-60°	54.7	1.1
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	0.6	0.0
90°-100°	175.7	3.7
100°-110°	582.3	12.1
110°-120°	578.0	12.0
120°-130°	470.8	9.8
130°-140°	382.6	8.0
140°-150°	297.1	6.2
150°-160°	214.1	4.5
160°-170°	131.1	2.7
170°-180°	44.3	0.9
0°-30°	1018.0	21.2
0°-40°	1562.1	32.5
0°-60°	1929.7	40.1
0°-90°	1932.2	40.2
90°-120°	1336.0	27.8
90°-150°	2486.4	51.7
90°-180°	2876.0	59.8
0°-180°	4808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1298	1295	1283	1302	1300	124
15°	1296	1307	1278	1279	1273	365
25°	1187	1197	1158	1146	1140	543
35°	898	903	888	873	863	554
45°	373	434	441	418	347	292
55°	35	41	71	40	37	39
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	4	4	1
95°	25	74	318	114	76	29
105°	102	145	583	1100	1028	107
115°	182	218	469	977	1142	180
125°	254	282	461	768	905	226
135°	304	335	457	659	743	235
145°	353	379	456	567	620	221
155°	403	417	459	506	525	186
165°	442	447	461	479	484	125
175°	463	463	464	466	466	44
180°	464	464	464	464	464	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1293.9	1293.9	1293.9	1293.9	1293.9
2.5°	1299.2	1296.2	1286.2	1297.6	1294.6
5°	1297.7	1294.9	1283.3	1301.5	1299.6
7.5°	1296.9	1294.7	1286.9	1302.8	1299.1
10°	1297.7	1297.7	1286.2	1300.5	1296.7
12.5°	1299.2	1303.0	1283.9	1295.1	1289.8
15°	1295.8	1307.1	1278.5	1279.3	1272.7
17.5°	1281.7	1297.0	1257.9	1248.6	1238.6
20°	1264.0	1280.0	1237.1	1222.5	1214.0
22.5°	1237.1	1252.3	1207.1	1194.8	1185.5
25°	1187.1	1197.4	1158.2	1145.6	1139.9
27.5°	1121.7	1126.9	1092.8	1079.7	1070.3
30°	1071.6	1071.6	1042.8	1028.1	1014.9
32.5°	1009.3	1006.3	987.4	970.4	957.9
35°	898.5	903.2	887.9	873.2	862.9
37.5°	775.9	780.4	764.8	748.1	740.9
40°	685.9	689.7	676.3	658.7	649.3
42.5°	575.1	595.4	583.2	564.0	551.6
45°	373.2	434.4	440.6	417.8	347.3
47.5°	194.5	258.5	305.5	233.3	163.5
50°	114.5	155.9	223.2	127.4	102.0
52.5°	73.7	91.7	157.0	81.5	68.9
55°	34.6	41.2	71.2	40.3	36.6
57.5°	12.9	19.3	32.1	19.5	14.0
60°	2.9	8.5	18.3	5.7	1.0
62.5°	0.6	2.5	10.6	1.1	0.2
65°	0.0	0.0	1.0	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	0.8	0.8
90°	0.0	0.9	2.9	3.8	3.8
92.5°	7.7	29.7	87.5	28.4	23.8
95°	25.0	73.9	318.3	113.6	76.0
97.5°	46.0	97.1	555.7	324.1	204.8
100°	60.6	109.5	643.4	552.6	366.4
102.5°	76.7	124.1	638.0	844.5	638.0
105°	101.9	145.2	582.8	1099.5	1028.0
107.5°	127.7	166.3	529.9	1125.4	1179.8
110°	142.3	180.9	503.0	1099.8	1209.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	157.7	195.5	486.8	1054.3	1194.4
115°	181.8	217.5	469.3	977.0	1142.5
117.5°	205.6	237.4	463.0	903.1	1076.7
120°	220.2	251.3	460.6	856.8	1025.1
122.5°	233.3	263.6	460.6	818.8	974.4
125°	253.9	282.1	460.6	767.7	904.9
127.5°	270.8	298.5	459.5	728.9	846.3
130°	280.8	310.0	458.7	706.3	811.7
132.5°	290.0	319.9	458.0	687.6	782.4
135°	303.9	334.9	456.8	658.7	743.4
137.5°	318.9	348.8	455.6	630.8	705.5
140°	328.9	358.0	454.9	612.2	680.9
142.5°	338.1	366.5	455.6	593.6	654.7
145°	352.9	379.3	455.8	566.7	620.3
147.5°	368.9	390.9	456.0	543.9	583.7
150°	378.9	398.6	456.8	530.7	564.5
152.5°	388.1	407.1	457.6	519.7	546.8
155°	402.9	417.0	458.7	506.3	525.1
157.5°	417.4	428.3	459.9	496.7	510.1
160°	425.1	434.5	460.6	489.7	500.1
162.5°	432.8	439.9	460.6	485.1	493.1
165°	442.4	447.1	460.6	479.0	483.7
167.5°	451.2	453.7	461.6	473.6	476.0
170°	455.8	456.8	461.6	471.2	472.2
172.5°	458.9	459.9	462.4	468.9	469.1
175°	462.6	462.6	463.5	466.4	465.5
177.5°	464.5	464.5	463.7	465.2	463.7
180°	464.5	464.5	464.5	464.5	464.5

(END OF REPORT)