

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: P559686

Luminaire Tested: **DL2-BB-M-150U-050D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559686  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, 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-150U-050D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

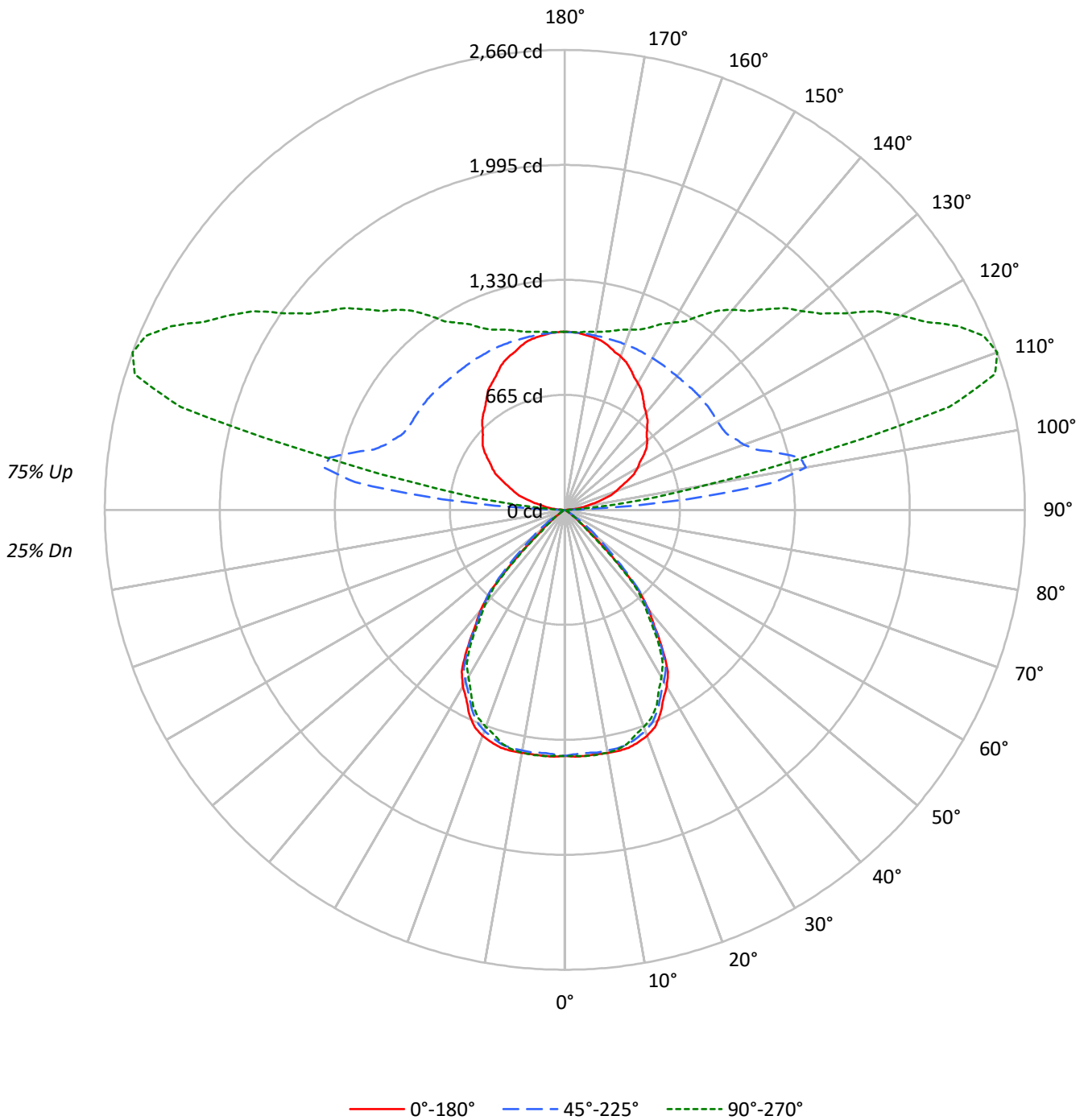
Lumens per Lamp: N/A  
Luminaire Lumens: 8477.5 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 74.7  
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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	31	30	30	23
2	86	79	74	69	76	71	67	63	56	53	50	42	40	38	28	28	27	21
3	79	71	64	59	70	63	58	54	50	46	44	38	35	34	26	25	24	19
4	73	63	56	51	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	57	49	44	60	51	45	40	41	37	33	31	29	26	22	21	20	16
6	62	51	44	39	55	46	40	36	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	29	26	26	23	21	19	17	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	28	24	21	22	19	17	16	15	14	11
10	46	35	29	24	42	32	26	23	26	22	19	21	18	16	15	14	12	10

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

	0°	45°	90°
0°	22976	22976	22976
5°	23131	22875	23167
10°	23399	23191	23382
15°	23821	23504	23397
20°	23886	23378	22941
25°	23259	22693	22335
30°	21973	21382	20810
35°	19478	19247	18705
40°	15900	15677	15051
45°	9373	11065	8720
50°	3162	6167	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°	136.0	1.6
10°-20°	398.0	4.7
20°-30°	585.7	6.9
30°-40°	598.4	7.1
40°-50°	344.0	4.1
50°-60°	60.2	0.7
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	392.1	4.6
100°-110°	1284.0	15.1
110°-120°	1269.4	15.0
120°-130°	1037.7	12.2
130°-140°	846.8	10.0
140°-150°	659.0	7.8
150°-160°	474.5	5.6
160°-170°	290.3	3.4
170°-180°	98.1	1.2
0°-30°	1119.7	13.2
0°-40°	1718.0	20.3
0°-60°	2122.2	25.0
0°-90°	2125.9	25.1
90°-120°	2945.6	34.7
90°-150°	5489.1	64.7
90°-180°	6352.0	74.9
0°-180°	8477.5	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	1438	1406	1407	1400	401
25°	1306	1317	1274	1260	1254	597
35°	988	993	976	960	949	610
45°	410	478	485	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°	1	3	8	7	8	3
95°	55	160	713	254	165	62
105°	223	318	1274	2422	2300	235
115°	402	480	1036	2140	2512	397
125°	560	624	1021	1687	1982	498
135°	674	745	1012	1455	1640	521
145°	788	846	1010	1252	1372	494
155°	898	928	1016	1120	1164	413
165°	980	990	1021	1060	1071	276
175°	1025	1025	1026	1033	1031	97
180°	1029	1029	1029	1029	1029	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1428.9	1425.6	1414.5	1427.2	1423.9
5°	1427.2	1424.1	1411.4	1431.4	1429.4
7.5°	1426.4	1423.9	1415.4	1432.9	1428.7
10°	1427.2	1427.2	1414.5	1430.3	1426.2
12.5°	1428.9	1433.1	1412.0	1424.4	1418.6
15°	1425.1	1437.5	1406.1	1407.0	1399.7
17.5°	1409.7	1426.4	1383.4	1373.2	1362.3
20°	1390.2	1407.8	1360.6	1344.5	1335.2
22.5°	1360.6	1377.3	1327.6	1314.0	1303.9
25°	1305.6	1316.9	1273.8	1259.9	1253.7
27.5°	1233.6	1239.4	1201.9	1187.5	1177.1
30°	1178.6	1178.6	1146.9	1130.7	1116.2
32.5°	1110.1	1106.7	1085.9	1067.2	1053.6
35°	988.2	993.3	976.5	960.4	949.0
37.5°	853.4	858.3	841.1	822.7	814.9
40°	754.4	758.5	743.8	724.5	714.1
42.5°	632.5	654.8	641.4	620.3	606.7
45°	410.5	477.7	484.6	459.5	381.9
47.5°	213.9	284.3	336.0	256.6	179.9
50°	125.9	171.4	245.5	140.1	112.1
52.5°	81.0	100.9	172.7	89.6	75.8
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°	0.2	0.6	1.7	1.5	1.7
90°	1.1	3.1	8.5	7.4	8.5
92.5°	18.0	65.6	201.4	65.5	52.5
95°	55.0	159.5	712.9	253.9	165.0
97.5°	99.8	210.3	1223.1	739.9	458.6
100°	131.2	236.6	1415.2	1263.8	837.7
102.5°	166.7	269.7	1394.0	1862.2	1443.5
105°	223.2	318.3	1274.5	2421.5	2300.5
107.5°	278.8	366.1	1158.0	2473.8	2606.8
110°	315.2	400.0	1102.1	2412.9	2660.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	349.9	432.2	1068.3	2307.0	2623.7
115°	401.9	480.5	1035.5	2139.7	2512.0
117.5°	452.5	525.9	1023.0	1975.3	2353.4
120°	485.5	554.8	1019.6	1879.4	2247.6
122.5°	515.1	582.7	1019.6	1796.7	2138.4
125°	559.5	623.6	1020.7	1687.4	1982.1
127.5°	597.2	662.5	1019.4	1606.7	1863.2
130°	620.9	687.1	1018.6	1558.0	1789.6
132.5°	642.0	709.9	1016.0	1516.0	1726.1
135°	673.7	745.1	1012.2	1455.4	1640.5
137.5°	707.2	777.9	1009.9	1392.1	1559.5
140°	730.9	799.1	1009.0	1352.2	1510.4
142.5°	754.6	818.7	1009.0	1309.5	1452.8
145°	788.0	845.9	1010.1	1251.9	1371.8
147.5°	823.1	871.3	1011.6	1201.7	1292.3
150°	845.1	887.5	1013.3	1172.6	1249.1
152.5°	867.1	904.5	1014.1	1148.6	1211.9
155°	898.0	928.0	1016.4	1120.0	1163.5
157.5°	925.7	947.4	1018.8	1097.5	1129.0
160°	943.5	961.0	1019.6	1084.7	1109.5
162.5°	958.7	973.0	1019.6	1074.4	1092.6
165°	980.5	989.8	1020.7	1060.1	1071.4
167.5°	998.9	1003.4	1021.9	1048.9	1055.2
170°	1009.0	1011.1	1022.8	1042.9	1045.0
172.5°	1016.7	1017.9	1025.3	1038.7	1039.1
175°	1024.9	1024.9	1026.0	1033.3	1031.2
177.5°	1029.1	1028.3	1027.4	1032.4	1029.1
180°	1029.1	1029.1	1029.1	1029.1	1029.1

(END OF REPORT)