

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: P559685

Luminaire Tested: **DL2-BB-M-150U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559685  
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-935-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**

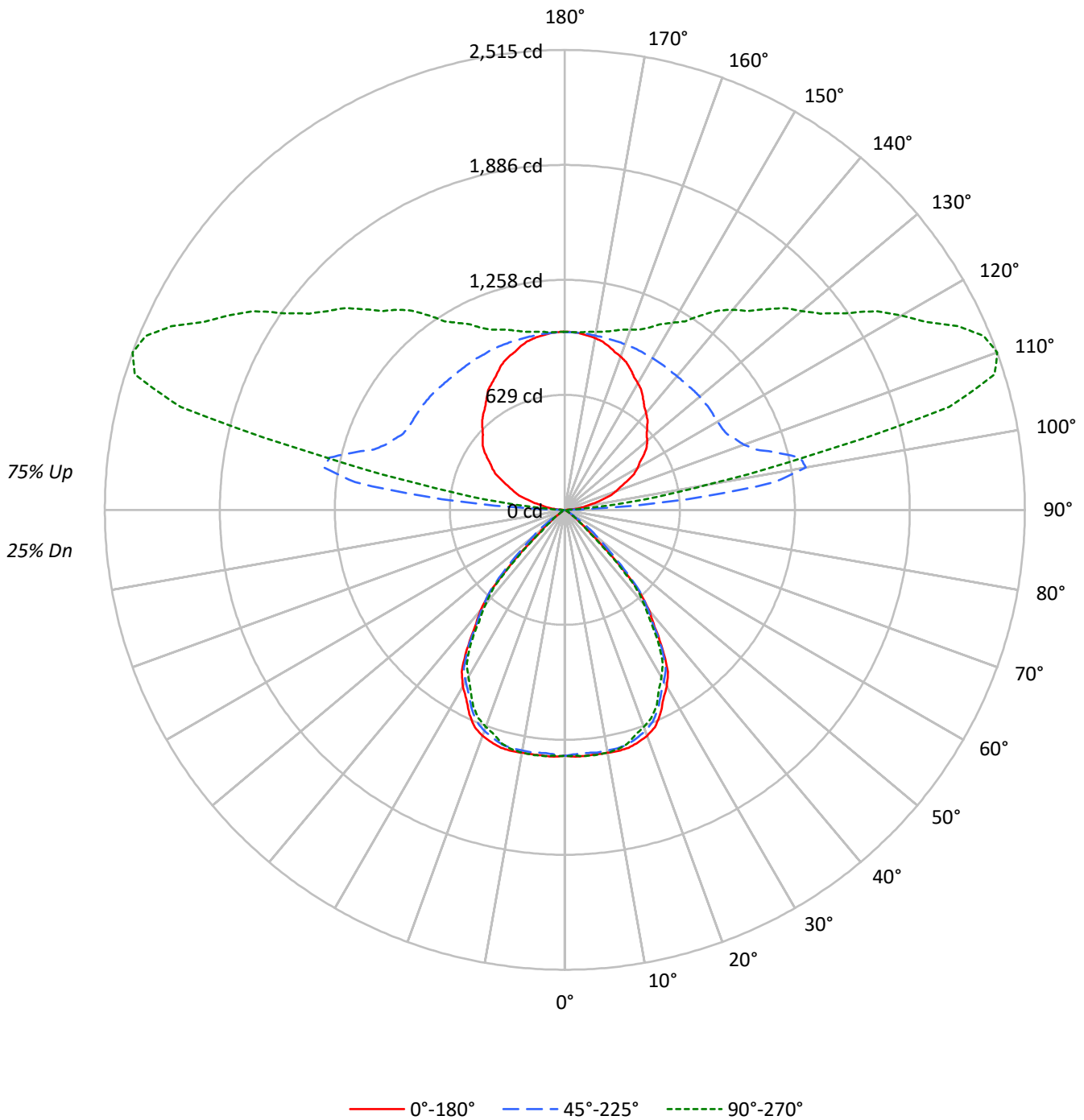
Lumens per Lamp: N/A  
Luminaire Lumens: 8014.5 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	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°	21721	21721	21721
5°	21869	21626	21901
10°	22122	21925	22105
15°	22521	22220	22119
20°	22582	22101	21689
25°	21989	21455	21116
30°	20773	20213	19673
35°	18413	18197	17684
40°	15032	14821	14229
45°	8862	10460	8245
50°	2989	5830	2663
55°	1013	2083	1070
60°	97	614	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°	128.5	1.6
10°-20°	376.3	4.7
20°-30°	553.7	6.9
30°-40°	565.7	7.1
40°-50°	325.2	4.1
50°-60°	56.9	0.7
60°-70°	2.1	0.0
70°-80°	0.0	0.0
80°-90°	1.4	0.0
90°-100°	370.7	4.6
100°-110°	1213.9	15.1
110°-120°	1200.1	15.0
120°-130°	981.0	12.2
130°-140°	800.6	10.0
140°-150°	623.0	7.8
150°-160°	448.6	5.6
160°-170°	274.4	3.4
170°-180°	92.7	1.2
0°-30°	1058.5	13.2
0°-40°	1624.2	20.3
0°-60°	2006.4	25.0
0°-90°	2009.8	25.1
90°-120°	2784.7	34.7
90°-150°	5189.3	64.7
90°-180°	6005.0	74.9
0°-180°	8014.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1349	1346	1334	1353	1351	129
15°	1347	1359	1329	1330	1323	380
25°	1234	1245	1204	1191	1185	564
35°	934	939	923	908	897	576
45°	388	452	458	434	361	303
55°	36	43	74	42	38	41
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°	52	151	674	240	156	59
105°	211	301	1205	2289	2175	222
115°	380	454	979	2023	2375	375
125°	529	590	965	1595	1874	471
135°	637	704	957	1376	1551	493
145°	745	800	955	1184	1297	467
155°	849	877	961	1059	1100	391
165°	927	936	965	1002	1013	261
175°	969	969	970	977	975	92
180°	973	973	973	973	973	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1350.9	1347.8	1337.3	1349.2	1346.1
5°	1349.3	1346.4	1334.3	1353.3	1351.3
7.5°	1348.5	1346.1	1338.1	1354.6	1350.7
10°	1349.3	1349.3	1337.3	1352.2	1348.3
12.5°	1350.9	1354.8	1334.9	1346.6	1341.1
15°	1347.3	1359.0	1329.3	1330.1	1323.3
17.5°	1332.7	1348.5	1307.9	1298.2	1287.9
20°	1314.3	1330.9	1286.3	1271.1	1262.3
22.5°	1286.3	1302.1	1255.1	1242.3	1232.7
25°	1234.3	1245.0	1204.3	1191.1	1185.3
27.5°	1166.3	1171.7	1136.2	1122.6	1112.8
30°	1114.2	1114.2	1084.2	1068.9	1055.2
32.5°	1049.4	1046.3	1026.6	1008.9	996.0
35°	934.2	939.1	923.2	908.0	897.2
37.5°	806.8	811.5	795.2	777.8	770.4
40°	713.2	717.1	703.2	684.9	675.1
42.5°	597.9	619.1	606.3	586.4	573.5
45°	388.1	451.7	458.1	434.4	361.1
47.5°	202.2	268.7	317.7	242.6	170.0
50°	119.0	162.1	232.1	132.4	106.0
52.5°	76.6	95.4	163.2	84.7	71.6
55°	36.0	42.9	74.0	41.9	38.0
57.5°	13.4	20.1	33.4	20.3	14.6
60°	3.0	8.9	19.0	5.9	1.0
62.5°	0.6	2.6	11.0	1.2	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°	0.2	0.6	1.6	1.4	1.6
90°	1.0	3.0	8.0	7.0	8.0
92.5°	17.0	62.0	190.4	61.9	49.6
95°	52.0	150.7	674.0	240.1	156.0
97.5°	94.4	198.8	1156.3	699.5	433.6
100°	124.0	223.7	1337.9	1194.8	791.9
102.5°	157.6	255.0	1317.9	1760.5	1364.7
105°	211.0	300.9	1204.9	2289.2	2174.8
107.5°	263.6	346.1	1094.7	2338.7	2464.4
110°	298.0	378.2	1041.9	2281.1	2514.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	330.8	408.6	1009.9	2181.0	2480.4
115°	380.0	454.3	978.9	2022.9	2374.8
117.5°	427.8	497.2	967.1	1867.4	2224.8
120°	459.0	524.5	963.9	1776.8	2124.8
122.5°	487.0	550.9	963.9	1698.6	2021.7
125°	529.0	589.6	964.9	1595.2	1873.9
127.5°	564.6	626.3	963.7	1519.0	1761.5
130°	587.0	649.5	962.9	1472.9	1691.9
132.5°	607.0	671.1	960.5	1433.2	1631.9
135°	637.0	704.4	956.9	1375.9	1550.9
137.5°	668.6	735.4	954.7	1316.1	1474.3
140°	690.9	755.5	953.9	1278.3	1427.9
142.5°	713.3	774.0	953.9	1238.0	1373.5
145°	744.9	799.7	954.9	1183.5	1296.9
147.5°	778.1	823.7	956.3	1136.1	1221.7
150°	798.9	839.0	957.9	1108.6	1180.9
152.5°	819.7	855.1	958.7	1085.9	1145.7
155°	848.9	877.3	960.9	1058.9	1099.9
157.5°	875.1	895.7	963.1	1037.6	1067.3
160°	891.9	908.6	963.9	1025.5	1048.9
162.5°	906.3	919.8	963.9	1015.7	1032.9
165°	926.9	935.7	964.9	1002.2	1012.9
167.5°	944.3	948.6	966.1	991.7	997.5
170°	953.9	955.9	966.9	986.0	987.9
172.5°	961.1	962.3	969.3	981.9	982.3
175°	968.9	968.9	969.9	976.9	974.9
177.5°	972.9	972.1	971.3	976.1	972.9
180°	972.9	972.9	972.9	972.9	972.9

(END OF REPORT)