

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: P559684

Luminaire Tested: **DL2-BB-M-150U-050D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559684
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-930-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

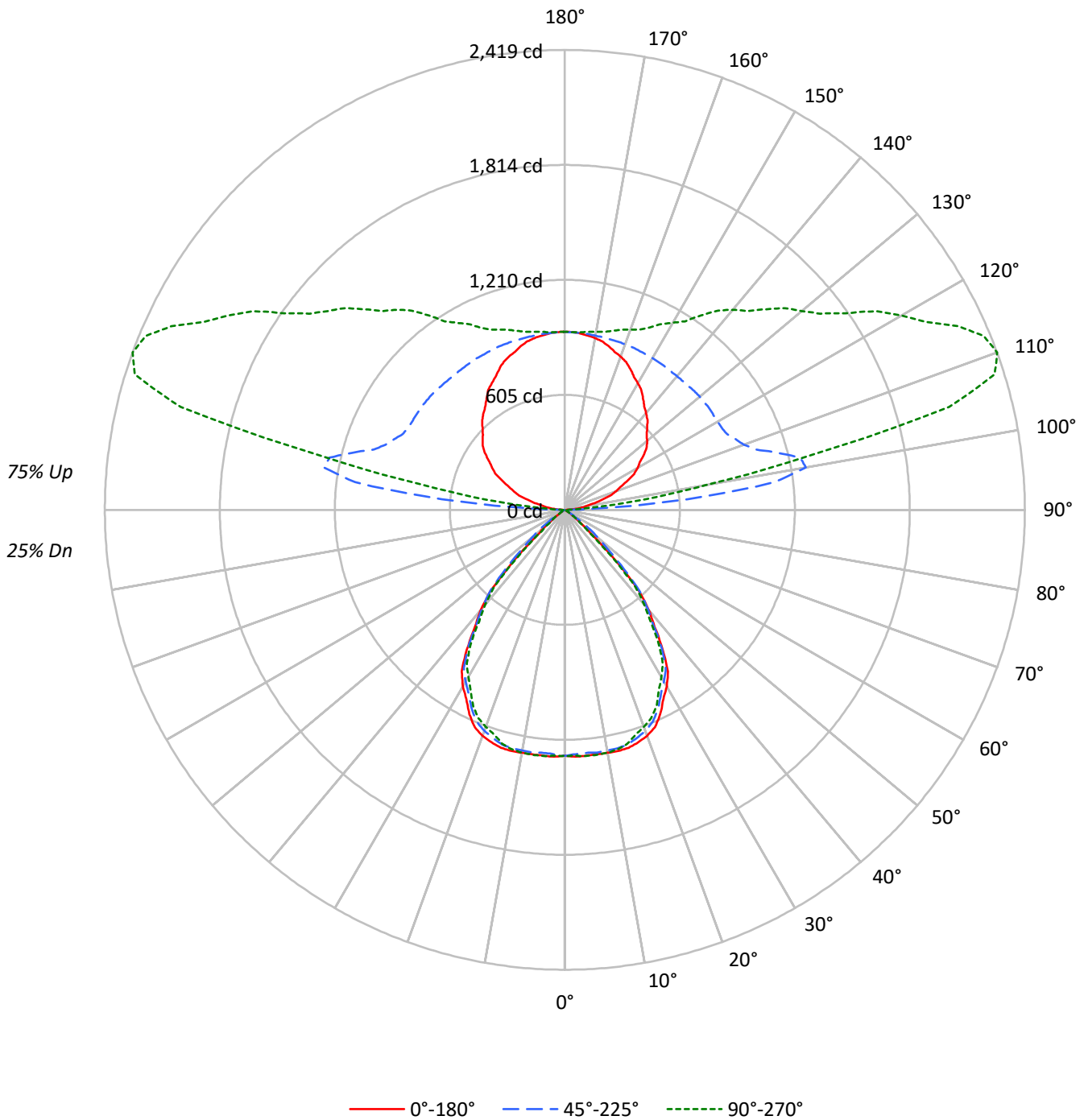
Lumens per Lamp: N/A
Luminaire Lumens: 7708.4 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P559684
CATALOG NUMBER: DL2-BB-M-150U-050D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P559684

CATALOG NUMBER: DL2-BB-M-150U-050D-930-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	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°	20891	20891	20891
5°	21032	20799	21065
10°	21276	21087	21261
15°	21660	21371	21274
20°	21720	21256	20861
25°	21148	20635	20309
30°	19980	19442	18921
35°	17710	17501	17008
40°	14457	14254	13687
45°	8524	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



TEST NUMBER: P559684

CATALOG NUMBER: DL2-BB-M-150U-050D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.6
10°-20°	361.9	4.7
20°-30°	532.6	6.9
30°-40°	544.1	7.1
40°-50°	312.8	4.1
50°-60°	54.7	0.7
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	1.3	0.0
90°-100°	356.5	4.6
100°-110°	1167.5	15.1
110°-120°	1154.2	15.0
120°-130°	943.5	12.2
130°-140°	770.0	10.0
140°-150°	599.2	7.8
150°-160°	431.5	5.6
160°-170°	264.0	3.4
170°-180°	89.2	1.2
0°-30°	1018.1	13.2
0°-40°	1562.2	20.3
0°-60°	1929.7	25.0
0°-90°	1933.0	25.1
90°-120°	2678.3	34.7
90°-150°	4991.1	64.7
90°-180°	5776.0	74.9
0°-180°	7708.4	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	1198	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°	1	3	8	7	8	3
95°	50	145	648	231	150	57
105°	203	289	1159	2202	2092	214
115°	366	437	942	1946	2284	361
125°	509	567	928	1534	1802	453
135°	613	678	920	1323	1492	474
145°	716	769	918	1138	1247	449
155°	816	844	924	1018	1058	376
165°	892	900	928	964	974	251
175°	932	932	933	940	938	88
180°	936	936	936	936	936	



TEST NUMBER: P559684

CATALOG NUMBER: DL2-BB-M-150U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.9	1293.9	1293.9	1293.9	1293.9
2.5°	1299.3	1296.3	1286.2	1297.7	1294.7
5°	1297.7	1294.9	1283.3	1301.6	1299.7
7.5°	1297.0	1294.7	1287.0	1302.9	1299.1
10°	1297.7	1297.7	1286.2	1300.5	1296.8
12.5°	1299.3	1303.1	1283.9	1295.1	1289.9
15°	1295.8	1307.1	1278.5	1279.3	1272.7
17.5°	1281.8	1297.0	1257.9	1248.7	1238.7
20°	1264.1	1280.1	1237.1	1222.5	1214.1
22.5°	1237.1	1252.4	1207.1	1194.8	1185.6
25°	1187.1	1197.5	1158.3	1145.6	1140.0
27.5°	1121.7	1127.0	1092.8	1079.7	1070.3
30°	1071.7	1071.7	1042.8	1028.1	1014.9
32.5°	1009.3	1006.3	987.4	970.4	958.0
35°	898.5	903.2	887.9	873.3	862.9
37.5°	776.0	780.5	764.8	748.1	740.9
40°	685.9	689.7	676.3	658.8	649.4
42.5°	575.1	595.4	583.2	564.0	551.6
45°	373.3	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°	0.2	0.6	1.5	1.4	1.5
90°	1.0	2.8	7.7	6.8	7.7
92.5°	16.3	59.6	183.1	59.6	47.7
95°	50.0	145.0	648.2	230.9	150.0
97.5°	90.8	191.2	1112.1	672.8	417.0
100°	119.3	215.2	1286.8	1149.1	761.7
102.5°	151.6	245.2	1267.6	1693.2	1312.6
105°	202.9	289.4	1158.9	2201.8	2091.8
107.5°	253.5	332.9	1052.9	2249.3	2370.3
110°	286.6	363.7	1002.1	2194.0	2418.7



TEST NUMBER: P559684

CATALOG NUMBER: DL2-BB-M-150U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.1	393.0	971.3	2097.7	2385.7
115°	365.5	436.9	941.5	1945.6	2284.1
117.5°	411.4	478.2	930.2	1796.0	2139.8
120°	441.4	504.4	927.1	1708.9	2043.7
122.5°	468.4	529.9	927.1	1633.7	1944.4
125°	508.8	567.1	928.1	1534.3	1802.3
127.5°	543.0	602.4	926.9	1461.0	1694.2
130°	564.5	624.7	926.1	1416.6	1627.2
132.5°	583.8	645.5	923.8	1378.5	1569.5
135°	612.6	677.5	920.4	1323.3	1491.6
137.5°	643.0	707.3	918.3	1265.8	1418.0
140°	664.6	726.6	917.5	1229.5	1373.3
142.5°	686.1	744.4	917.5	1190.7	1321.0
145°	716.5	769.1	918.4	1138.3	1247.4
147.5°	748.4	792.2	919.8	1092.7	1175.0
150°	768.4	807.0	921.3	1066.2	1135.8
152.5°	788.4	822.5	922.1	1044.4	1101.9
155°	816.5	843.8	924.2	1018.4	1057.9
157.5°	841.7	861.5	926.3	998.0	1026.5
160°	857.9	873.8	927.1	986.3	1008.9
162.5°	871.7	884.7	927.1	976.9	993.5
165°	891.5	900.0	928.1	963.9	974.2
167.5°	908.3	912.4	929.2	953.8	959.4
170°	917.5	919.4	930.0	948.3	950.2
172.5°	924.4	925.5	932.3	944.4	944.8
175°	931.9	931.9	932.9	939.6	937.7
177.5°	935.8	935.0	934.2	938.8	935.8
180°	935.8	935.8	935.8	935.8	935.8

(END OF REPORT)