

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: P559690

Luminaire Tested: **DL2-BB-M-150U-100D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559690
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-150U-100D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

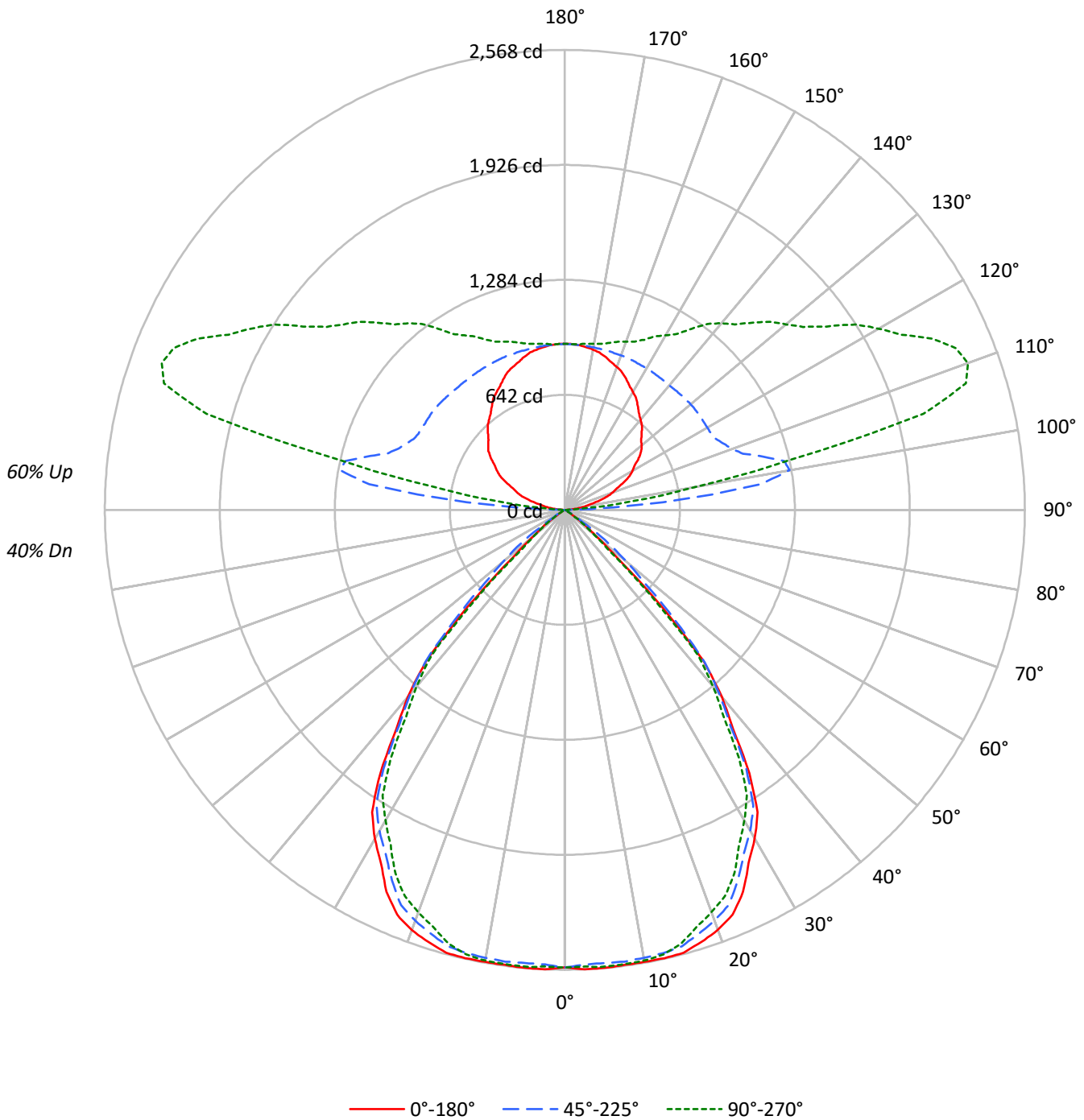
Lumens per Lamp: N/A
Luminaire Lumens: 9542.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.3
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	93	90	87	88	85	83	80	70	69	67	57	56	54	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	56	52	52	48	45	43	40	38	35	33	32	28				
5	71	61	54	49	65	56	50	46	48	43	40	40	37	34	32	30	29	25				
6	66	55	48	43	60	51	45	41	44	39	36	37	33	31	30	28	26	23				
7	61	50	43	38	56	47	41	36	40	35	32	34	30	28	28	26	24	21				
8	57	46	39	34	53	43	37	33	37	32	29	31	28	25	26	24	22	20				
9	54	42	36	31	49	40	34	29	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°	41253	41253	41253
5°	41611	41162	41503
10°	42014	41638	41904
15°	42788	42163	41907
20°	42897	41943	41087
25°	41936	40691	39889
30°	39532	38585	37354
35°	35416	34793	33397
40°	28732	28247	27137
45°	17486	19826	15694
50°	5579	11205	5097
55°	1939	4068	1993
60°	155	1175	32
65°	0	73	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°	244.2	2.6
10°-20°	714.0	7.5
20°-30°	1052.5	11.0
30°-40°	1077.8	11.3
40°-50°	621.0	6.5
50°-60°	108.8	1.1
60°-70°	4.2	0.0
70°-80°	0.0	0.0
80°-90°	1.3	0.0
90°-100°	353.0	3.7
100°-110°	1156.0	12.1
110°-120°	1142.9	12.0
120°-130°	934.2	9.8
130°-140°	762.4	8.0
140°-150°	593.3	6.2
150°-160°	427.2	4.5
160°-170°	261.4	2.7
170°-180°	88.3	0.9
0°-30°	2010.7	21.1
0°-40°	3088.4	32.4
0°-60°	3818.2	40.0
0°-90°	3823.7	40.1
90°-120°	2651.9	27.8
90°-150°	4941.9	51.8
90°-180°	5719.0	59.9
0°-180°	9542.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2567	2562	2540	2570	2561	245
15°	2560	2580	2522	2522	2507	721
25°	2354	2372	2284	2263	2239	1074
35°	1797	1786	1765	1722	1694	1103
45°	766	857	868	825	687	586
55°	69	83	144	78	71	77
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	3	8	7	8	3
95°	50	144	642	229	149	56
105°	201	287	1148	2180	2071	212
115°	362	433	932	1926	2262	357
125°	504	562	919	1519	1784	448
135°	607	671	911	1310	1477	469
145°	709	762	909	1127	1235	445
155°	808	836	915	1008	1048	372
165°	883	891	919	954	965	249
175°	923	923	924	930	928	88
180°	926	926	926	926	926	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2555.0	2555.0	2555.0	2555.0	2555.0
2.5°	2568.0	2561.3	2541.2	2561.7	2552.7
5°	2567.4	2561.8	2539.7	2570.1	2560.7
7.5°	2562.6	2561.3	2544.3	2568.2	2557.5
10°	2562.6	2567.3	2539.7	2564.4	2555.9
12.5°	2564.2	2574.9	2535.1	2554.3	2542.2
15°	2559.8	2580.4	2522.4	2522.1	2507.1
17.5°	2531.1	2555.4	2482.4	2462.6	2442.6
20°	2496.6	2524.7	2441.1	2412.8	2391.3
22.5°	2446.8	2474.1	2389.0	2356.9	2335.4
25°	2354.0	2371.7	2284.1	2263.4	2239.1
27.5°	2222.2	2232.7	2164.6	2128.9	2107.0
30°	2120.4	2127.9	2069.6	2030.7	2003.6
32.5°	2002.4	1999.5	1957.1	1917.4	1891.8
35°	1796.8	1786.5	1765.2	1722.5	1694.4
37.5°	1543.9	1542.0	1520.9	1483.9	1454.5
40°	1363.2	1361.3	1340.2	1307.2	1287.5
42.5°	1144.1	1179.7	1154.9	1114.4	1102.2
45°	765.8	856.6	868.3	824.9	687.3
47.5°	395.2	516.5	604.6	470.9	326.2
50°	222.1	311.9	446.1	252.6	202.9
52.5°	144.7	188.2	311.3	161.2	136.3
55°	68.9	83.0	144.5	78.3	70.8
57.5°	24.7	38.2	63.2	38.7	23.9
60°	4.8	16.0	36.4	11.3	1.0
62.5°	1.7	4.7	21.1	3.0	1.0
65°	0.0	0.9	1.9	0.9	0.0
67.5°	0.0	0.7	0.8	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	1.3	1.5
90°	1.0	2.8	7.6	6.7	7.6
92.5°	16.2	59.0	181.3	59.0	47.2
95°	49.5	143.6	641.8	228.6	148.6
97.5°	89.9	189.3	1101.2	666.2	412.9
100°	118.1	213.0	1274.1	1137.8	754.2
102.5°	150.1	242.8	1255.1	1676.5	1299.6
105°	200.9	286.6	1147.5	2180.1	2071.1
107.5°	251.0	329.6	1042.5	2227.2	2346.9
110°	283.8	360.1	992.2	2172.4	2394.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	315.0	389.1	961.8	2077.0	2362.1
115°	361.9	432.6	932.3	1926.4	2261.6
117.5°	407.4	473.5	921.0	1778.3	2118.8
120°	437.1	499.5	918.0	1692.1	2023.5
122.5°	463.7	524.6	918.0	1617.6	1925.3
125°	503.7	561.5	918.9	1519.2	1784.5
127.5°	537.6	596.5	917.8	1446.6	1677.5
130°	559.0	618.6	917.0	1402.6	1611.2
132.5°	578.0	639.1	914.7	1364.9	1554.1
135°	606.6	670.8	911.3	1310.3	1476.9
137.5°	636.7	700.4	909.2	1253.3	1404.0
140°	658.0	719.5	908.4	1217.4	1359.8
142.5°	679.3	737.1	908.4	1179.0	1308.0
145°	709.4	761.6	909.4	1127.1	1235.1
147.5°	741.0	784.4	910.7	1081.9	1163.5
150°	760.8	799.0	912.3	1055.7	1124.6
152.5°	780.7	814.4	913.0	1034.1	1091.1
155°	808.5	835.5	915.1	1008.4	1047.5
157.5°	833.4	853.0	917.2	988.1	1016.4
160°	849.4	865.2	918.0	976.6	998.9
162.5°	863.1	876.0	918.0	967.3	983.7
165°	882.7	891.1	918.9	954.4	964.6
167.5°	899.3	903.4	920.1	944.4	950.0
170°	908.4	910.3	920.8	939.0	940.8
172.5°	915.3	916.4	923.1	935.1	935.5
175°	922.7	922.7	923.7	930.3	928.4
177.5°	926.5	925.8	925.0	929.5	926.5
180°	926.5	926.5	926.5	926.5	926.5

(END OF REPORT)