

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: P559691

Luminaire Tested: **DL2-BB-M-150U-100D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559691
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-935-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

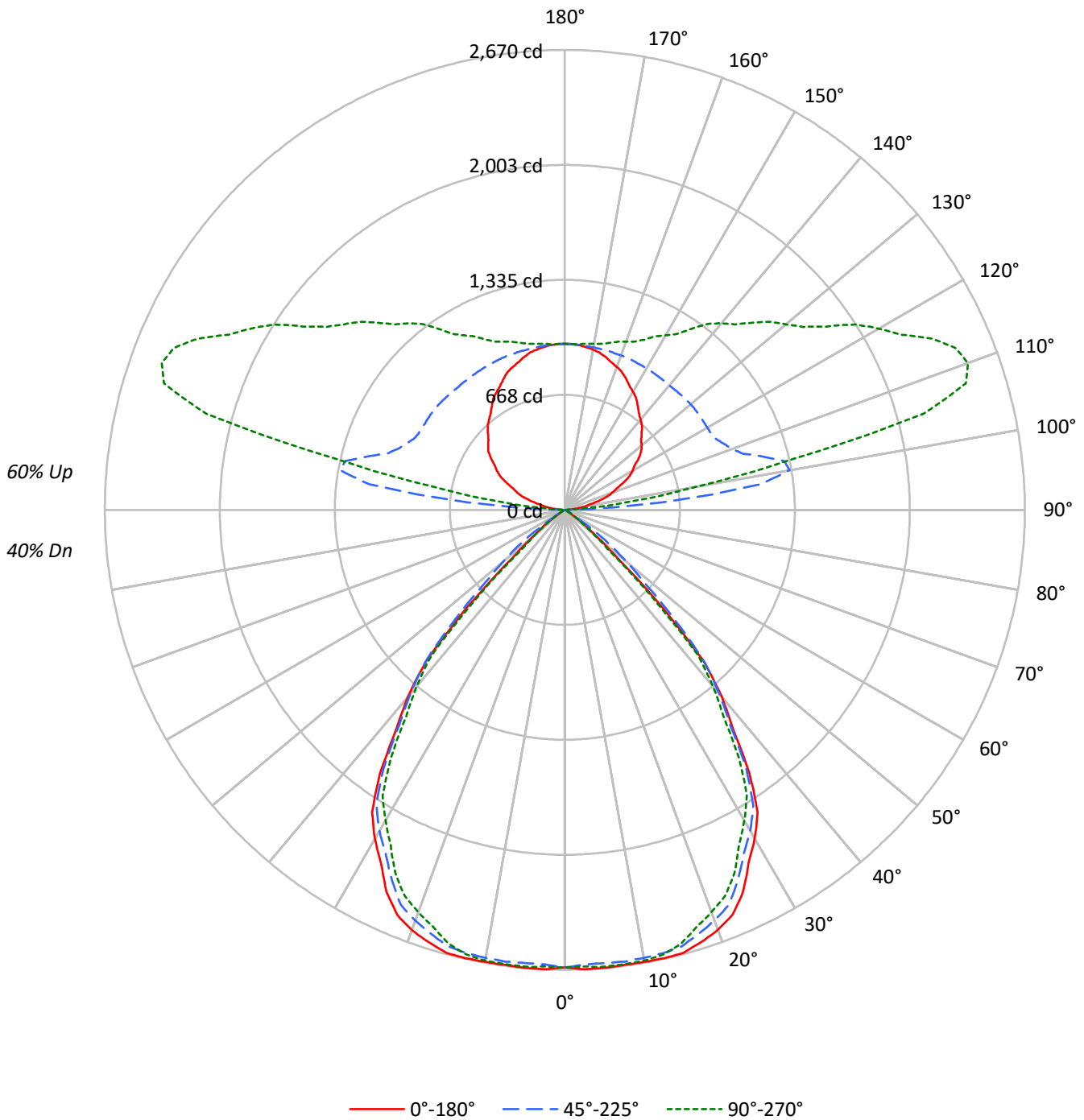
Lumens per Lamp: N/A
Luminaire Lumens: 9921.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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°	42891	42891	42891
5°	43264	42796	43151
10°	43683	43291	43569
15°	44488	43838	43572
20°	44601	43608	42720
25°	43602	42307	41473
30°	41102	40119	38838
35°	36823	36175	34724
40°	29872	29369	28216
45°	18180	20612	16317
50°	5800	11650	5300
55°	2018	4231	2075
60°	161	1221	32
65°	0	76	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°	253.9	2.6
10°-20°	742.4	7.5
20°-30°	1094.3	11.0
30°-40°	1120.6	11.3
40°-50°	645.7	6.5
50°-60°	113.1	1.1
60°-70°	4.3	0.0
70°-80°	0.0	0.0
80°-90°	1.4	0.0
90°-100°	367.1	3.7
100°-110°	1201.9	12.1
110°-120°	1188.3	12.0
120°-130°	971.3	9.8
130°-140°	792.7	8.0
140°-150°	616.9	6.2
150°-160°	444.2	4.5
160°-170°	271.7	2.7
170°-180°	91.8	0.9
0°-30°	2090.5	21.1
0°-40°	3211.1	32.4
0°-60°	3969.9	40.0
0°-90°	3975.6	40.1
90°-120°	2757.3	27.8
90°-150°	5138.2	51.8
90°-180°	5946.0	59.9
0°-180°	9921.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2656	2656	2656	2656	2656	
5°	2669	2664	2640	2672	2662	254
15°	2662	2683	2623	2622	2607	749
25°	2448	2466	2375	2353	2328	1117
35°	1868	1858	1835	1791	1762	1146
45°	796	891	903	858	715	609
55°	72	86	150	81	74	80
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°	52	149	667	238	154	58
105°	209	298	1193	2267	2153	220
115°	376	450	969	2003	2351	372
125°	524	584	955	1580	1855	466
135°	631	698	948	1362	1536	488
145°	738	792	946	1172	1284	462
155°	841	869	952	1048	1089	387
165°	918	926	955	992	1003	259
175°	959	959	960	967	965	91
180°	963	963	963	963	963	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2656.5	2656.5	2656.5	2656.5	2656.5
2.5°	2670.0	2663.0	2642.1	2663.4	2654.1
5°	2669.4	2663.6	2640.5	2672.2	2662.4
7.5°	2664.4	2663.1	2645.3	2670.2	2659.1
10°	2664.4	2669.3	2640.5	2666.2	2657.5
12.5°	2666.0	2677.1	2635.8	2655.8	2643.1
15°	2661.5	2682.9	2622.6	2622.3	2606.7
17.5°	2631.6	2656.9	2581.0	2560.5	2539.6
20°	2595.8	2625.0	2538.0	2508.7	2486.3
22.5°	2544.0	2572.4	2483.9	2450.5	2428.2
25°	2447.5	2466.0	2374.8	2353.3	2328.0
27.5°	2310.5	2321.4	2250.6	2213.4	2190.7
30°	2204.6	2212.4	2151.9	2111.4	2083.2
32.5°	2082.0	2078.9	2034.8	1993.6	1966.9
35°	1868.2	1857.5	1835.3	1790.9	1761.7
37.5°	1605.2	1603.3	1581.3	1542.8	1512.3
40°	1417.3	1415.4	1393.4	1359.1	1338.7
42.5°	1189.6	1226.6	1200.7	1158.6	1146.0
45°	796.2	890.6	902.7	857.7	714.6
47.5°	410.9	537.0	628.6	489.7	339.2
50°	230.9	324.3	463.8	262.6	211.0
52.5°	150.5	195.6	323.7	167.6	141.7
55°	71.7	86.3	150.3	81.4	73.7
57.5°	25.7	39.7	65.7	40.3	24.9
60°	5.0	16.7	37.8	11.7	1.0
62.5°	1.8	4.9	21.9	3.1	1.0
65°	0.0	1.0	2.0	1.0	0.0
67.5°	0.0	0.8	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	1.6	1.4	1.6
90°	1.0	2.9	7.9	7.0	7.9
92.5°	16.8	61.4	188.5	61.3	49.1
95°	51.5	149.3	667.3	237.7	154.5
97.5°	93.5	196.9	1144.9	692.6	429.3
100°	122.8	221.5	1324.7	1183.0	784.1
102.5°	156.0	252.5	1304.9	1743.1	1351.3
105°	208.9	298.0	1193.0	2266.7	2153.4
107.5°	261.0	342.7	1083.9	2315.6	2440.1
110°	295.0	374.4	1031.7	2258.7	2490.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.5	404.6	1000.0	2159.5	2456.0
115°	376.2	449.8	969.3	2002.9	2351.4
117.5°	423.6	492.3	957.6	1849.0	2202.9
120°	454.4	519.3	954.4	1759.3	2103.9
122.5°	482.2	545.5	954.4	1681.9	2001.7
125°	523.7	583.8	955.4	1579.5	1855.4
127.5°	559.0	620.2	954.2	1504.0	1744.1
130°	581.2	643.1	953.4	1458.4	1675.2
132.5°	601.0	664.5	951.1	1419.1	1615.8
135°	630.7	697.5	947.5	1362.3	1535.6
137.5°	662.0	728.2	945.3	1303.1	1459.8
140°	684.1	748.0	944.5	1265.7	1413.8
142.5°	706.3	766.3	944.5	1225.8	1360.0
145°	737.6	791.8	945.5	1171.8	1284.1
147.5°	770.5	815.6	946.9	1124.9	1209.7
150°	791.1	830.8	948.5	1097.6	1169.3
152.5°	811.7	846.7	949.3	1075.2	1134.4
155°	840.6	868.6	951.5	1048.4	1089.1
157.5°	866.5	886.8	953.6	1027.4	1056.8
160°	883.1	899.6	954.4	1015.4	1038.6
162.5°	897.4	910.8	954.4	1005.7	1022.7
165°	917.8	926.5	955.4	992.3	1002.9
167.5°	935.0	939.3	956.6	981.9	987.7
170°	944.5	946.5	957.4	976.3	978.2
172.5°	951.7	952.8	959.8	972.3	972.6
175°	959.4	959.4	960.4	967.3	965.3
177.5°	963.3	962.6	961.8	966.4	963.3
180°	963.3	963.3	963.3	963.3	963.3

(END OF REPORT)