

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: P559681

Luminaire Tested: **DL2-BB-M-125U-125D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559681  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, G3-2104-222-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-125U-125D-930-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

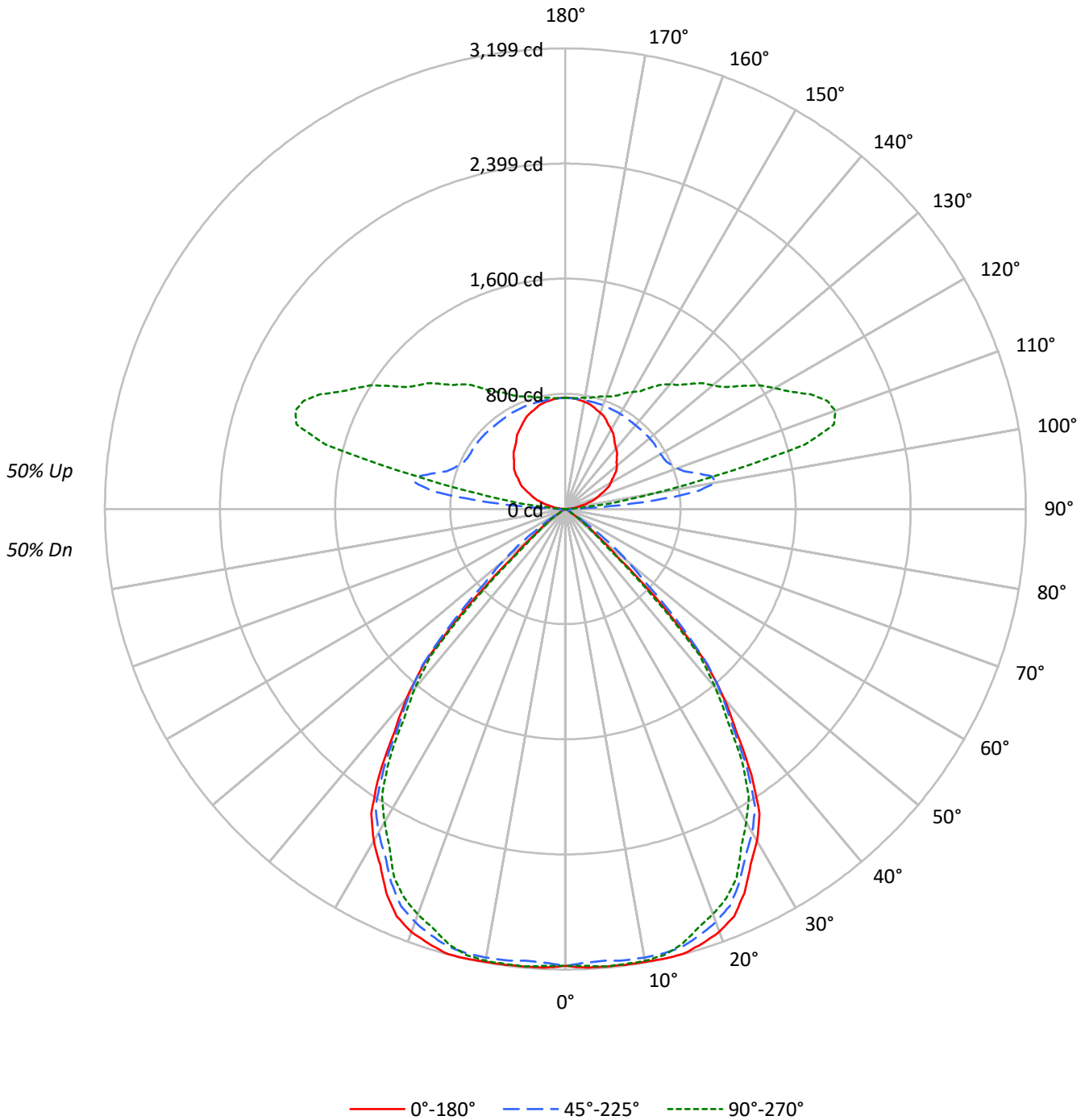
Lumens per Lamp: N/A  
Luminaire Lumens: 9556.1 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.7  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	100	96	93	90	92	89	87	84	76	74	72	64	63	62	53	52	51	46
2	93	86	81	77	86	80	76	72	69	66	63	59	57	55	49	48	47	42
3	86	78	72	67	79	73	67	63	63	59	56	54	51	49	45	44	42	38
4	80	71	64	59	74	66	60	56	57	53	50	49	46	44	42	40	38	35
5	74	64	57	52	69	60	54	49	53	48	44	46	42	39	39	37	35	32
6	69	58	51	46	64	55	49	44	48	43	40	42	38	36	36	34	32	29
7	64	53	46	41	60	50	44	39	44	39	36	39	35	32	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	31	29	27	24
9	56	45	38	34	52	43	37	32	38	33	30	33	30	27	29	26	24	22
10	53	42	35	31	49	39	34	30	35	30	27	31	27	25	27	25	23	21

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

	0°	45°	90°
0°	51245	51245	51245
5°	51705	51068	51705
10°	52367	51864	52257
15°	53422	52605	52316
20°	53728	52476	51471
25°	52426	50974	50206
30°	49644	48393	46820
35°	44396	43357	42147
40°	36157	35630	34176
45°	22071	25005	19881
50°	7201	13993	6335
55°	2457	4940	2536
60°	187	1424	61
65°	38	73	0
70°	0	47	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.7	3.2
10°-20°	891.9	9.3
20°-30°	1318.1	13.8
30°-40°	1354.6	14.2
40°-50°	782.5	8.2
50°-60°	135.6	1.4
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	1.1	0.0
90°-100°	295.3	3.1
100°-110°	961.5	10.1
110°-120°	951.1	10.0
120°-130°	777.3	8.1
130°-140°	635.3	6.6
140°-150°	494.8	5.2
150°-160°	356.7	3.7
160°-170°	218.0	2.3
170°-180°	73.6	0.8
0°-30°	2513.7	26.3
0°-40°	3868.4	40.5
0°-60°	4786.4	50.1
0°-90°	4792.7	50.2
90°-120°	2208.0	23.1
90°-150°	4115.4	43.1
90°-180°	4764.0	49.9
0°-180°	9556.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3174	3174	3174	3174	3174	
5°	3190	3181	3151	3197	3190	305
15°	3196	3219	3147	3152	3130	900
25°	2943	2969	2861	2828	2818	1345
35°	2252	2253	2200	2166	2138	1386
45°	967	1097	1095	1037	871	739
55°	87	101	176	100	90	98
65°	1	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	3	7	6	6	2
95°	40	122	541	193	119	46
105°	163	236	952	1819	1723	174
115°	302	360	776	1599	1881	299
125°	420	468	765	1262	1488	374
135°	507	560	762	1090	1229	392
145°	593	636	760	938	1028	371
155°	676	698	764	840	872	311
165°	738	744	766	795	804	208
175°	769	769	769	775	773	73
180°	772	772	772	772	772	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3173.9	3173.9	3173.9	3173.9	3173.9
2.5°	3188.5	3179.5	3154.0	3183.0	3176.2
5°	3190.2	3180.9	3150.9	3196.8	3190.2
7.5°	3193.3	3187.5	3161.9	3197.9	3187.4
10°	3194.1	3195.0	3163.4	3194.9	3187.4
12.5°	3198.7	3207.9	3160.3	3185.5	3172.8
15°	3196.0	3219.4	3147.1	3152.3	3129.8
17.5°	3163.8	3197.5	3104.7	3082.0	3053.9
20°	3127.0	3160.7	3054.1	3023.7	2995.6
22.5°	3061.7	3098.5	2984.3	2950.9	2925.0
25°	2942.8	2969.1	2861.3	2828.5	2818.2
27.5°	2786.4	2795.7	2712.3	2669.0	2644.8
30°	2662.8	2661.0	2595.7	2546.0	2511.3
32.5°	2510.2	2519.6	2453.8	2407.2	2371.7
35°	2252.4	2253.4	2199.7	2165.5	2138.3
37.5°	1951.7	1947.0	1909.9	1863.9	1848.6
40°	1715.5	1722.0	1690.5	1638.4	1621.5
42.5°	1441.6	1484.9	1462.7	1401.2	1380.6
45°	966.6	1096.9	1095.1	1036.6	870.7
47.5°	494.6	657.7	755.8	592.0	397.2
50°	286.7	389.8	557.1	307.5	252.2
52.5°	181.6	230.7	396.0	199.9	167.8
55°	87.3	101.3	175.5	99.5	90.1
57.5°	31.8	47.4	77.9	48.4	34.1
60°	5.8	19.8	44.1	13.2	1.9
62.5°	1.9	5.5	25.7	3.4	1.2
65°	1.0	1.0	1.9	0.9	0.0
67.5°	0.0	0.9	1.0	0.0	0.0
70°	0.0	0.9	1.0	0.0	0.0
72.5°	0.0	0.2	0.2	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°	0.0	0.6	1.3	1.1	1.1
90°	0.0	2.8	6.6	5.7	5.7
92.5°	13.7	49.1	157.1	51.8	39.9
95°	39.9	121.6	541.3	193.0	118.7
97.5°	75.0	158.2	918.7	559.5	341.5
100°	97.8	179.5	1060.8	945.9	613.5
102.5°	123.6	202.4	1043.3	1399.4	1064.0
105°	163.3	235.8	952.5	1819.3	1722.7
107.5°	206.3	274.4	866.3	1855.7	1958.1
110°	237.4	299.6	825.3	1810.5	1995.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	263.3	324.7	799.4	1728.9	1967.2
115°	302.0	360.5	775.9	1599.0	1881.3
117.5°	341.9	394.6	766.8	1480.1	1761.1
120°	364.7	416.7	764.5	1407.0	1679.1
122.5°	386.7	438.0	765.3	1343.5	1597.0
125°	419.8	468.0	765.4	1262.5	1488.2
127.5°	448.1	497.5	765.3	1201.8	1390.0
130°	466.3	516.4	764.5	1167.2	1335.3
132.5°	482.3	534.6	763.7	1135.0	1292.7
135°	507.1	560.1	761.7	1089.6	1228.9
137.5°	531.4	584.7	759.6	1043.5	1167.2
140°	548.9	600.0	758.8	1012.2	1129.2
142.5°	565.6	614.5	758.8	982.3	1086.6
145°	592.6	636.2	759.8	938.4	1027.6
147.5°	618.8	656.7	761.1	901.1	970.0
150°	636.3	669.7	762.6	878.8	937.3
152.5°	653.8	681.3	763.4	861.9	908.5
155°	676.2	698.5	764.5	840.2	871.8
157.5°	697.5	713.4	765.6	824.3	846.4
160°	710.4	723.4	766.4	814.3	831.9
162.5°	721.8	731.8	766.4	805.8	819.0
165°	737.9	744.4	766.4	795.1	804.4
167.5°	749.3	753.4	766.6	787.0	791.9
170°	756.9	758.8	767.3	781.6	783.5
172.5°	762.2	763.3	768.9	778.5	778.2
175°	769.2	769.2	769.2	774.9	773.0
177.5°	772.1	771.4	770.6	774.3	771.3
180°	772.1	772.1	772.1	772.1	772.1

(END OF REPORT)