

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: P559680

Luminaire Tested: **DL2-BB-M-125U-100D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559680  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, 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-125U-100D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

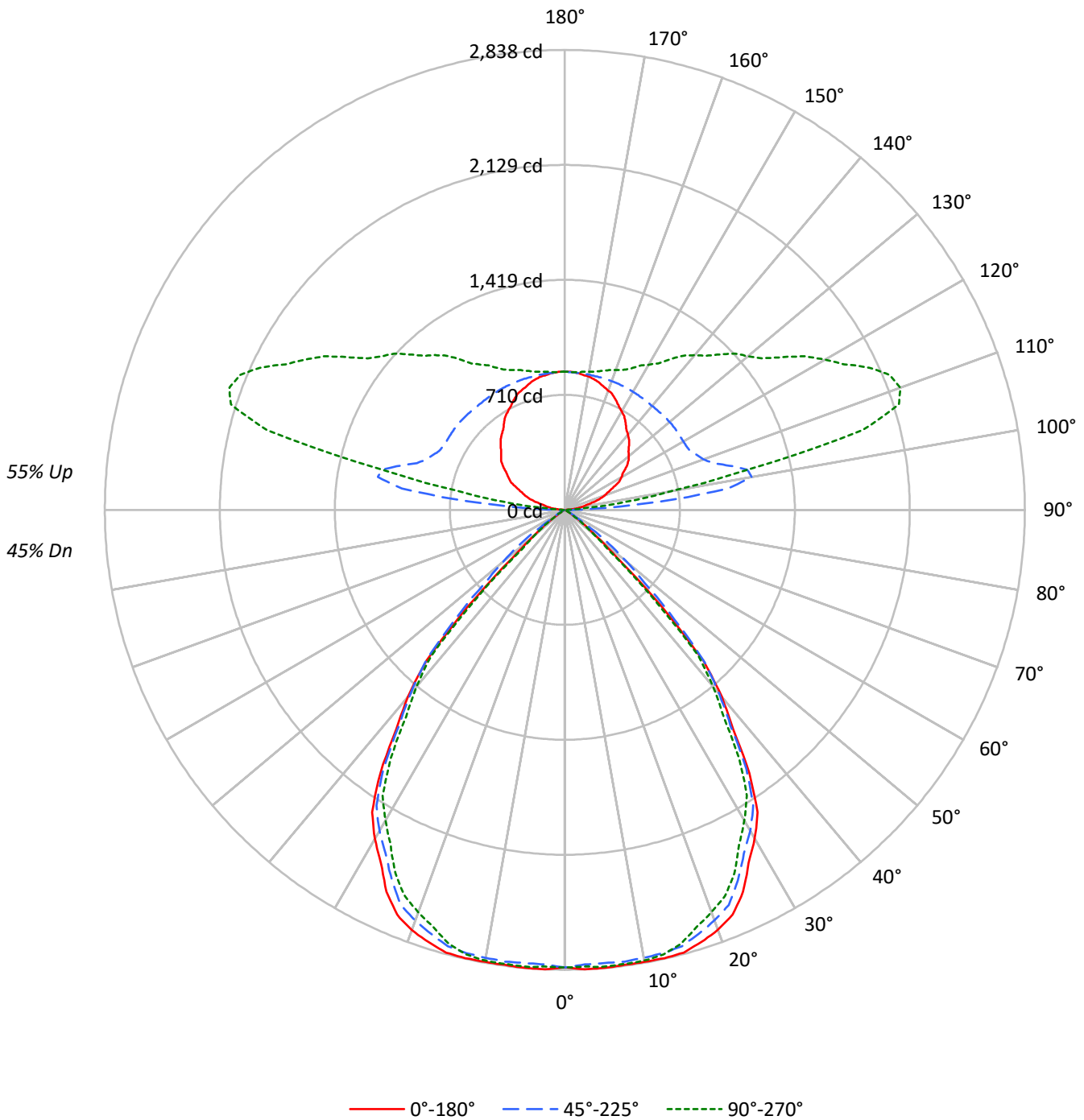
Lumens per Lamp: N/A  
Luminaire Lumens: 9482.4 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				45
1	98	95	91	89	90	87	84	82	73	71	69	60	59	58	48	47	47	41				41
2	91	85	80	75	84	78	74	70	66	63	61	55	53	51	44	43	42	37				37
3	84	76	70	65	77	71	65	61	60	56	53	50	48	46	41	40	38	34				34
4	78	69	62	57	72	64	58	54	55	50	47	46	43	41	38	36	35	31				31
5	72	62	55	50	67	58	52	47	50	45	42	42	39	37	35	33	31	28				28
6	67	57	50	44	62	53	47	42	46	41	38	39	36	33	33	30	29	26				26
7	63	52	45	40	58	48	42	38	42	37	34	36	33	30	30	28	26	24				24
8	58	47	40	36	54	44	38	34	39	34	31	33	30	27	28	26	24	22				22
9	55	44	37	32	51	41	35	31	36	31	28	31	27	25	26	24	22	20				20
10	51	40	34	29	47	38	32	28	33	29	25	29	25	23	25	22	20	18				18

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

	0°	45°	90°
0°	45589	45589	45589
5°	45986	45490	45866
10°	46430	46016	46309
15°	47286	46596	46313
20°	47407	46352	45407
25°	46344	44969	44083
30°	43688	42642	41281
35°	39139	38451	36908
40°	31752	31217	29990
45°	19324	21909	17344
50°	6164	12383	5634
55°	2145	4495	2204
60°	171	1298	36
65°	0	80	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°	269.8	2.8
10°-20°	789.1	8.3
20°-30°	1163.1	12.3
30°-40°	1191.1	12.6
40°-50°	686.3	7.2
50°-60°	120.2	1.3
60°-70°	4.6	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.0
90°-100°	325.9	3.4
100°-110°	1061.2	11.2
110°-120°	1049.7	11.1
120°-130°	857.8	9.0
130°-140°	701.1	7.4
140°-150°	546.1	5.8
150°-160°	393.6	4.2
160°-170°	240.6	2.5
170°-180°	81.2	0.9
0°-30°	2222.0	23.4
0°-40°	3413.1	36.0
0°-60°	4219.6	44.5
0°-90°	4225.5	44.6
90°-120°	2436.8	25.7
90°-150°	4541.8	47.9
90°-180°	5257.0	55.4
0°-180°	9482.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2837	2831	2807	2840	2830	271
15°	2829	2852	2788	2787	2771	797
25°	2601	2621	2524	2501	2474	1187
35°	1986	1974	1951	1904	1872	1219
45°	846	947	960	912	760	648
55°	76	92	160	87	78	85
65°	0	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°	44	134	597	213	131	51
105°	180	260	1051	2008	1901	192
115°	333	398	856	1765	2076	330
125°	463	516	845	1393	1642	412
135°	560	618	841	1202	1356	432
145°	654	702	838	1036	1134	409
155°	746	771	844	927	962	344
165°	814	822	846	878	888	229
175°	849	849	849	855	853	81
180°	852	852	852	852	852	



TEST NUMBER: P559680

CATALOG NUMBER: DL2-BB-M-125U-100D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2838.0	2830.5	2808.4	2831.0	2821.0
5°	2837.3	2831.1	2806.7	2840.3	2829.9
7.5°	2832.0	2830.6	2811.7	2838.1	2826.3
10°	2832.0	2837.2	2806.7	2834.0	2824.6
12.5°	2833.7	2845.5	2801.6	2822.9	2809.4
15°	2828.9	2851.6	2787.6	2787.2	2770.7
17.5°	2797.1	2824.0	2743.4	2721.5	2699.4
20°	2759.1	2790.1	2697.7	2666.5	2642.7
22.5°	2704.0	2734.2	2640.1	2604.7	2580.9
25°	2601.4	2621.1	2524.2	2501.4	2474.5
27.5°	2455.9	2467.4	2392.2	2352.7	2328.5
30°	2343.3	2351.6	2287.2	2244.2	2214.2
32.5°	2213.0	2209.6	2162.8	2119.0	2090.7
35°	1985.7	1974.3	1950.8	1903.5	1872.5
37.5°	1706.2	1704.1	1680.8	1639.9	1607.4
40°	1506.5	1504.4	1481.1	1444.6	1422.9
42.5°	1264.4	1303.7	1276.3	1231.5	1218.1
45°	846.3	946.7	959.5	911.6	759.6
47.5°	436.7	570.8	668.2	520.5	360.5
50°	245.4	344.7	493.0	279.1	224.3
52.5°	160.0	208.0	344.0	178.2	150.6
55°	76.2	91.7	159.7	86.6	78.3
57.5°	27.3	42.2	69.8	42.8	26.4
60°	5.3	17.7	40.2	12.4	1.1
62.5°	1.9	5.2	23.3	3.3	1.1
65°	0.0	1.0	2.1	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°	0.0	0.6	1.5	1.3	1.3
90°	0.0	3.1	7.3	6.3	6.3
92.5°	15.1	54.2	173.4	57.1	44.0
95°	44.0	134.2	597.4	213.0	131.0
97.5°	82.8	174.6	1013.9	617.5	376.9
100°	108.0	198.1	1170.7	1043.9	677.1
102.5°	136.5	223.4	1151.4	1544.4	1174.3
105°	180.3	260.2	1051.2	2007.8	1901.2
107.5°	227.6	302.9	956.1	2048.0	2160.9
110°	262.0	330.7	910.8	1998.1	2202.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	290.5	358.4	882.3	1908.0	2171.0
115°	333.3	397.9	856.3	1764.7	2076.3
117.5°	377.3	435.5	846.2	1633.5	1943.6
120°	402.5	459.9	843.7	1552.7	1853.0
122.5°	426.8	483.3	844.5	1482.7	1762.5
125°	463.3	516.5	844.8	1393.3	1642.3
127.5°	494.5	549.0	844.5	1326.4	1534.0
130°	514.6	569.9	843.7	1288.1	1473.6
132.5°	532.2	590.0	842.9	1252.6	1426.7
135°	559.7	618.1	840.6	1202.5	1356.2
137.5°	586.5	645.3	838.3	1151.6	1288.1
140°	605.8	662.2	837.4	1117.0	1246.2
142.5°	624.2	678.1	837.4	1084.0	1199.2
145°	654.0	702.2	838.5	1035.6	1134.0
147.5°	682.9	724.7	839.9	994.5	1070.5
150°	702.2	739.1	841.6	969.9	1034.5
152.5°	721.5	751.8	842.5	951.2	1002.6
155°	746.2	770.8	843.7	927.3	962.1
157.5°	769.7	787.3	845.0	909.7	934.1
160°	784.0	798.3	845.8	898.7	918.1
162.5°	796.5	807.6	845.8	889.3	903.9
165°	814.4	821.5	845.8	877.5	887.7
167.5°	826.9	831.4	846.0	868.6	873.9
170°	835.3	837.4	846.9	862.6	864.7
172.5°	841.2	842.4	848.5	859.2	858.8
175°	848.9	848.9	848.9	855.2	853.1
177.5°	852.1	851.3	850.4	854.5	851.3
180°	852.1	852.1	852.1	852.1	852.1

(END OF REPORT)