

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: P559663

Luminaire Tested: **DL2-BB-M-100U-075D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559663  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-100U-075D-930-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

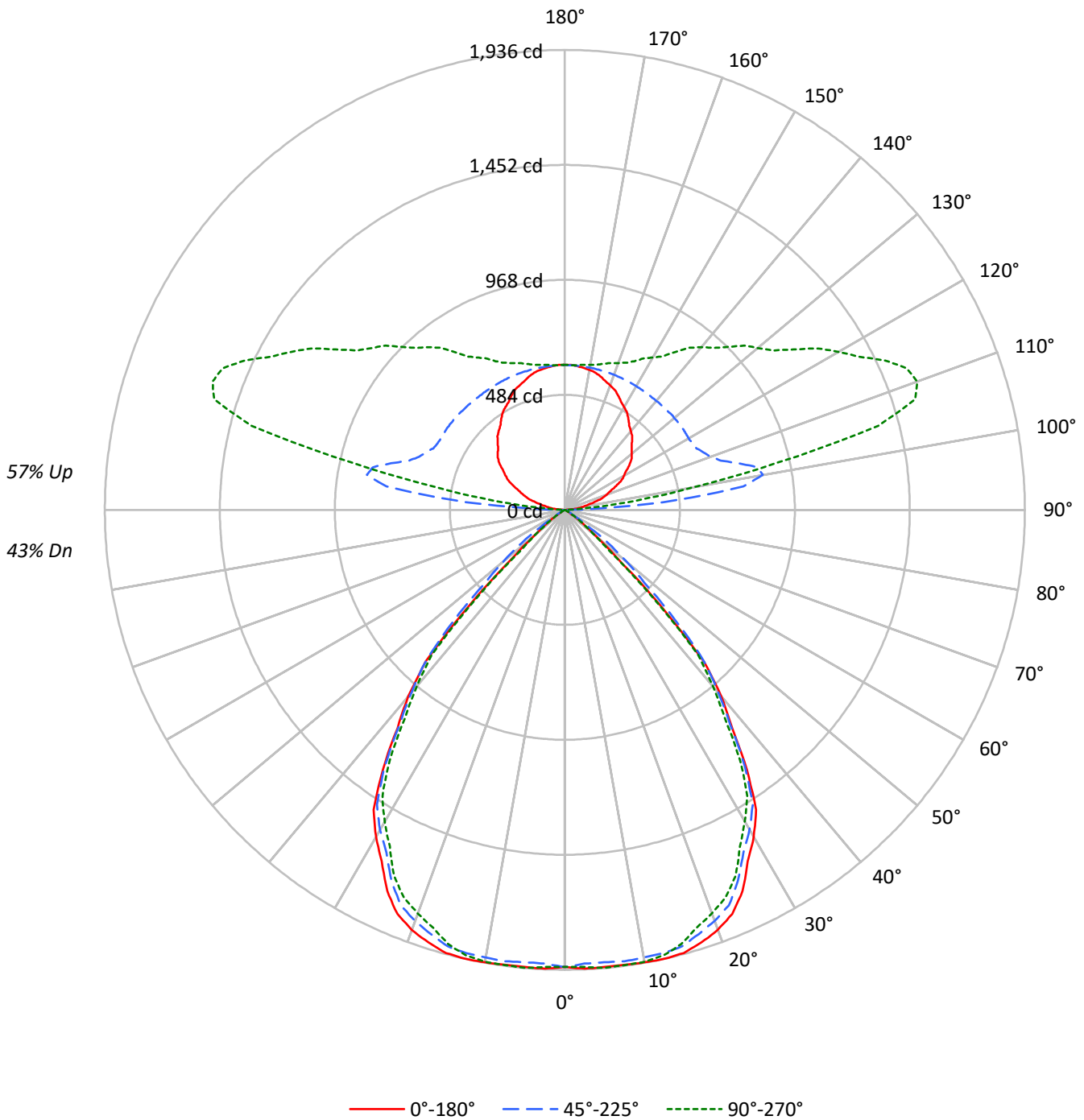
Lumens per Lamp: N/A  
Luminaire Lumens: 6672.6 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.2  
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	98	94	91	88	90	87	84	81	72	70	69	59	58	57	47	46	45	40
2	91	84	79	75	83	78	73	70	65	62	60	54	52	50	43	42	41	36
3	84	76	70	65	77	70	65	61	59	56	52	49	47	45	40	38	37	33
4	78	68	62	56	71	63	58	53	54	50	46	45	42	40	37	35	34	30
5	72	62	55	50	66	58	51	47	49	45	41	42	38	36	34	32	31	27
6	67	56	49	44	62	52	46	42	45	40	37	38	35	32	32	30	28	25
7	62	51	44	39	57	48	42	37	41	37	33	35	32	29	30	27	25	23
8	58	47	40	35	54	44	38	34	38	33	30	33	29	27	28	25	23	21
9	54	43	36	32	50	41	35	30	35	31	27	30	27	24	26	23	21	19
10	51	40	33	29	47	37	32	28	33	28	25	28	25	22	24	22	20	18

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

	0°	45°	90°
0°	31074	31074	31074
5°	31318	30974	31365
10°	31713	31380	31665
15°	32284	31801	31641
20°	32325	31646	31067
25°	31525	30720	30291
30°	29636	28989	28253
35°	26302	26093	25316
40°	21572	21205	20415
45°	12860	15125	12070
50°	4014	8392	3798
55°	1517	2981	1517
60°	94	840	32
65°	0	38	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°	184.0	2.8
10°-20°	539.0	8.1
20°-30°	793.0	11.9
30°-40°	810.5	12.1
40°-50°	467.0	7.0
50°-60°	80.5	1.2
60°-70°	2.9	0.0
70°-80°	0.0	0.0
80°-90°	1.4	0.0
90°-100°	254.6	3.8
100°-110°	770.1	11.5
110°-120°	751.8	11.3
120°-130°	614.3	9.2
130°-140°	501.5	7.5
140°-150°	390.4	5.9
150°-160°	281.4	4.2
160°-170°	172.3	2.6
170°-180°	58.2	0.9
0°-30°	1516.0	22.7
0°-40°	2326.6	34.9
0°-60°	2874.0	43.1
0°-90°	2878.3	43.1
90°-120°	1776.6	26.6
90°-150°	3282.7	49.2
90°-180°	3795.0	56.9
0°-180°	6672.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1932	1928	1911	1937	1935	184
15°	1931	1947	1902	1905	1893	544
25°	1770	1786	1724	1707	1700	807
35°	1334	1345	1324	1298	1284	824
45°	563	647	662	626	529	436
55°	54	61	106	60	54	57
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	2	12	7	6	1
95°	32	100	480	178	112	37
105°	134	188	756	1436	1365	141
115°	238	284	612	1266	1486	236
125°	333	370	603	1000	1176	296
135°	399	441	599	862	970	309
145°	466	501	599	742	811	292
155°	531	549	603	665	690	244
165°	581	588	606	629	636	164
175°	608	608	609	614	612	58
180°	610	610	610	610	610	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1933.1	1927.8	1912.3	1929.9	1926.2
5°	1932.3	1927.6	1911.1	1937.1	1935.2
7.5°	1931.2	1928.0	1916.3	1937.6	1932.9
10°	1934.3	1933.3	1914.0	1936.1	1931.4
12.5°	1935.8	1941.6	1911.7	1929.1	1920.6
15°	1931.4	1947.4	1902.5	1905.1	1892.9
17.5°	1909.8	1932.4	1872.6	1861.7	1844.3
20°	1881.3	1907.7	1841.8	1823.2	1808.1
22.5°	1841.2	1865.3	1802.5	1779.4	1767.3
25°	1769.6	1785.6	1724.4	1706.9	1700.3
27.5°	1668.1	1672.7	1626.5	1604.8	1596.3
30°	1589.6	1589.6	1554.9	1531.4	1515.4
32.5°	1497.9	1495.7	1471.0	1445.2	1429.2
35°	1334.4	1344.8	1323.8	1298.5	1284.4
37.5°	1157.5	1161.4	1145.5	1118.3	1106.4
40°	1023.5	1024.4	1006.1	986.5	968.6
42.5°	867.1	886.1	869.0	838.0	830.7
45°	563.2	647.0	662.4	625.5	528.6
47.5°	283.1	387.4	452.7	351.6	249.0
50°	159.8	222.0	334.1	186.0	151.2
52.5°	106.7	134.2	231.6	121.6	101.9
55°	53.9	61.4	105.9	59.6	53.9
57.5°	18.3	28.5	46.0	29.4	20.2
60°	2.9	12.3	26.0	9.4	1.0
62.5°	0.6	3.2	16.0	2.6	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°	0.0	0.4	2.3	1.3	1.1
90°	0.0	1.9	11.5	6.7	5.7
92.5°	10.7	43.3	155.4	51.6	37.1
95°	31.6	99.9	480.5	177.5	112.0
97.5°	61.1	127.1	757.3	501.1	305.1
100°	79.4	144.0	846.1	818.0	549.4
102.5°	100.1	162.4	827.8	1147.3	914.7
105°	134.0	188.3	756.2	1436.0	1364.9
107.5°	166.2	218.0	687.2	1464.6	1547.0
110°	187.6	237.2	652.8	1428.6	1578.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	208.3	256.4	632.1	1368.3	1557.7
115°	238.3	284.2	611.6	1265.6	1486.5
117.5°	268.2	311.6	604.4	1169.4	1395.5
120°	288.1	329.3	602.1	1113.3	1330.5
122.5°	306.5	345.4	602.1	1063.9	1264.6
125°	333.1	369.6	603.0	999.5	1176.3
127.5°	354.7	392.5	602.1	950.8	1101.7
130°	368.5	407.8	602.1	922.9	1059.6
132.5°	380.8	420.8	601.3	897.4	1023.6
135°	399.1	441.3	599.2	862.0	969.6
137.5°	419.6	459.7	599.2	824.1	923.8
140°	432.6	471.9	599.2	799.5	894.0
142.5°	445.7	483.5	598.4	777.0	859.5
145°	466.1	500.8	599.2	741.5	810.7
147.5°	486.6	516.0	600.3	712.2	765.3
150°	499.6	526.8	601.1	695.9	740.8
152.5°	511.9	536.0	601.9	681.9	718.6
155°	531.2	549.0	603.0	664.8	690.1
157.5°	548.1	562.5	604.2	652.2	669.8
160°	558.0	570.2	604.9	644.5	657.6
162.5°	568.0	577.1	605.7	637.5	648.4
165°	581.0	587.5	605.9	629.0	636.5
167.5°	592.1	595.5	607.0	622.4	625.6
170°	598.2	600.1	607.8	619.3	620.2
172.5°	602.1	603.2	607.8	616.2	616.4
175°	607.8	607.8	608.8	613.5	611.6
177.5°	610.5	609.7	608.9	611.2	609.7
180°	609.7	609.7	609.7	609.7	609.7

(END OF REPORT)