

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: P559677

Luminaire Tested: **DL2-BB-M-125U-075D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559677  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, 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-125U-075D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

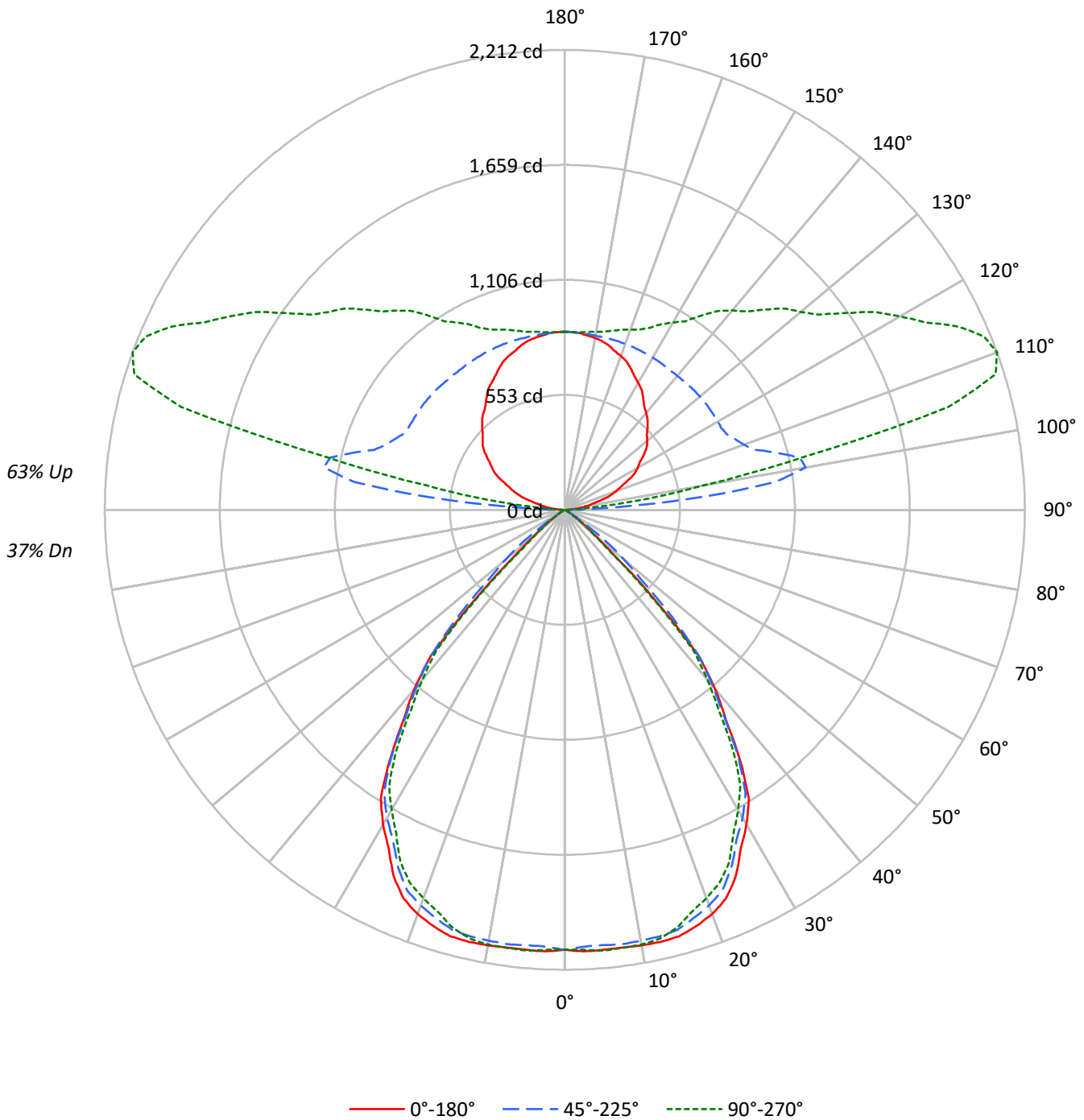
Lumens per Lamp: N/A  
Luminaire Lumens: 8445.3 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.5  
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37				
1	96	93	90	87	88	85	82	79	69	67	66	55	54	53	42	41	40	35				
2	89	83	78	73	81	76	71	68	62	59	57	50	48	46	39	38	37	31				
3	82	74	68	63	75	68	63	58	56	53	50	46	43	41	36	34	33	29				
4	76	67	60	55	69	61	56	51	51	47	44	42	39	37	33	31	30	26				
5	70	60	53	48	64	56	49	45	47	42	39	38	35	33	31	29	27	24				
6	65	55	47	42	60	50	44	40	43	38	35	35	32	30	28	26	25	22				
7	61	50	43	38	55	46	40	35	39	34	31	32	29	27	26	24	23	20				
8	57	45	39	34	52	42	36	32	36	31	28	30	27	24	24	22	21	18				
9	53	42	35	30	48	39	33	29	33	29	25	28	25	22	23	21	19	17				
10	49	38	32	28	45	36	30	26	31	26	23	26	23	20	21	19	17	16				

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

	0°	45°	90°
0°	34168	34168	34168
5°	34434	34057	34486
10°	34869	34503	34816
15°	35497	34965	34788
20°	35541	34795	34160
25°	34663	33777	33305
30°	32585	31875	31066
35°	28919	28691	27835
40°	23718	23317	22447
45°	14141	16630	13271
50°	4413	9226	4175
55°	1669	3277	1669
60°	103	924	36
65°	0	42	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°	202.3	2.4
10°-20°	592.7	7.0
20°-30°	871.9	10.3
30°-40°	891.2	10.6
40°-50°	513.4	6.1
50°-60°	88.5	1.0
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.0
90°-100°	327.4	3.9
100°-110°	1066.0	12.6
110°-120°	1054.5	12.5
120°-130°	861.7	10.2
130°-140°	704.3	8.3
140°-150°	548.6	6.5
150°-160°	395.4	4.7
160°-170°	241.7	2.9
170°-180°	81.5	1.0
0°-30°	1666.9	19.7
0°-40°	2558.1	30.3
0°-60°	3160.0	37.4
0°-90°	3164.5	37.5
90°-120°	2447.9	29.0
90°-150°	4562.4	54.0
90°-180°	5281.0	62.5
0°-180°	8445.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2125	2120	2101	2130	2128	203
15°	2124	2141	2092	2095	2081	598
25°	1946	1963	1896	1877	1870	888
35°	1467	1479	1456	1428	1412	906
45°	619	711	728	688	581	479
55°	59	68	116	66	59	63
65°	0	0	1	0	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	135	600	214	132	51
105°	181	261	1056	2017	1910	193
115°	335	400	860	1773	2086	331
125°	465	519	849	1400	1650	414
135°	562	621	844	1208	1362	434
145°	657	705	842	1040	1139	411
155°	750	774	848	932	966	345
165°	818	825	850	881	892	230
175°	853	853	853	859	857	81
180°	856	856	856	856	856	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2125.5	2119.7	2102.6	2122.0	2117.9
5°	2124.6	2119.5	2101.3	2129.9	2127.8
7.5°	2123.4	2119.8	2107.1	2130.4	2125.3
10°	2126.8	2125.7	2104.5	2128.8	2123.6
12.5°	2128.4	2134.9	2102.0	2121.0	2111.7
15°	2123.6	2141.2	2091.8	2094.7	2081.2
17.5°	2099.9	2124.7	2059.0	2046.9	2027.9
20°	2068.5	2097.5	2025.1	2004.6	1988.1
22.5°	2024.5	2051.0	1981.9	1956.4	1943.2
25°	1945.7	1963.3	1896.0	1876.8	1869.5
27.5°	1834.2	1839.1	1788.4	1764.5	1755.2
30°	1747.8	1747.8	1709.7	1683.9	1666.3
32.5°	1647.0	1644.5	1617.3	1589.0	1571.4
35°	1467.2	1478.6	1455.6	1427.7	1412.2
37.5°	1272.7	1277.0	1259.5	1229.6	1216.6
40°	1125.3	1126.3	1106.3	1084.6	1065.0
42.5°	953.4	974.3	955.5	921.4	913.4
45°	619.3	711.4	728.3	687.8	581.2
47.5°	311.2	425.9	497.8	386.6	273.8
50°	175.7	244.0	367.3	204.5	166.2
52.5°	117.3	147.5	254.7	133.7	112.0
55°	59.3	67.6	116.4	65.5	59.3
57.5°	20.1	31.3	50.6	32.4	22.2
60°	3.2	13.5	28.6	10.4	1.1
62.5°	0.6	3.5	17.6	2.9	0.2
65°	0.0	0.0	1.1	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	0.6	1.5	1.3	1.3
90°	0.0	3.1	7.4	6.3	6.3
92.5°	15.2	54.5	174.1	57.4	44.2
95°	44.2	134.8	600.1	214.0	131.6
97.5°	83.2	175.4	1018.5	620.3	378.6
100°	108.4	199.0	1176.0	1048.7	680.1
102.5°	137.1	224.4	1156.6	1551.4	1179.6
105°	181.1	261.4	1056.0	2016.9	1909.8
107.5°	228.7	304.2	960.4	2057.3	2170.7
110°	263.2	332.2	914.9	2007.1	2212.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	291.8	360.0	886.3	1916.7	2180.8
115°	334.8	399.7	860.2	1772.7	2085.6
117.5°	379.0	437.5	850.1	1640.9	1952.4
120°	404.3	461.9	847.5	1559.8	1861.4
122.5°	428.7	485.5	848.4	1489.4	1770.4
125°	465.3	518.9	848.6	1399.6	1649.8
127.5°	496.7	551.5	848.4	1332.4	1540.9
130°	516.9	572.5	847.5	1293.9	1480.3
132.5°	534.6	592.7	846.7	1258.3	1433.1
135°	562.2	620.9	844.4	1207.9	1362.4
137.5°	589.2	648.3	842.0	1156.8	1293.9
140°	608.5	665.2	841.2	1122.1	1251.8
142.5°	627.1	681.2	841.2	1088.9	1204.6
145°	657.0	705.3	842.3	1040.3	1139.2
147.5°	686.0	728.0	843.7	999.0	1075.4
150°	705.4	742.5	845.4	974.3	1039.1
152.5°	724.8	755.2	846.3	955.5	1007.1
155°	749.6	774.3	847.5	931.5	966.5
157.5°	773.2	790.9	848.8	913.8	938.3
160°	787.5	801.9	849.6	902.7	922.3
162.5°	800.1	811.3	849.6	893.3	908.0
165°	818.0	825.3	849.6	881.4	891.7
167.5°	830.7	835.2	849.8	872.5	877.8
170°	839.1	841.2	850.7	866.5	868.6
172.5°	845.0	846.2	852.4	863.1	862.7
175°	852.8	852.8	852.8	859.1	857.0
177.5°	855.9	855.1	854.3	858.4	855.1
180°	855.9	855.9	855.9	855.9	855.9

(END OF REPORT)