

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: P559650

Luminaire Tested: **DL2-BB-M-0U-050D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

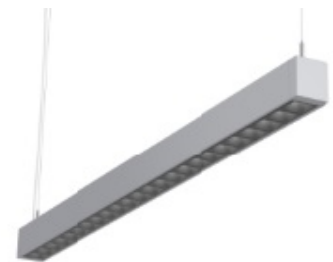
**Test Information**

Test Method: LM-79-08  
Report Number: P559650  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-0U-050D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

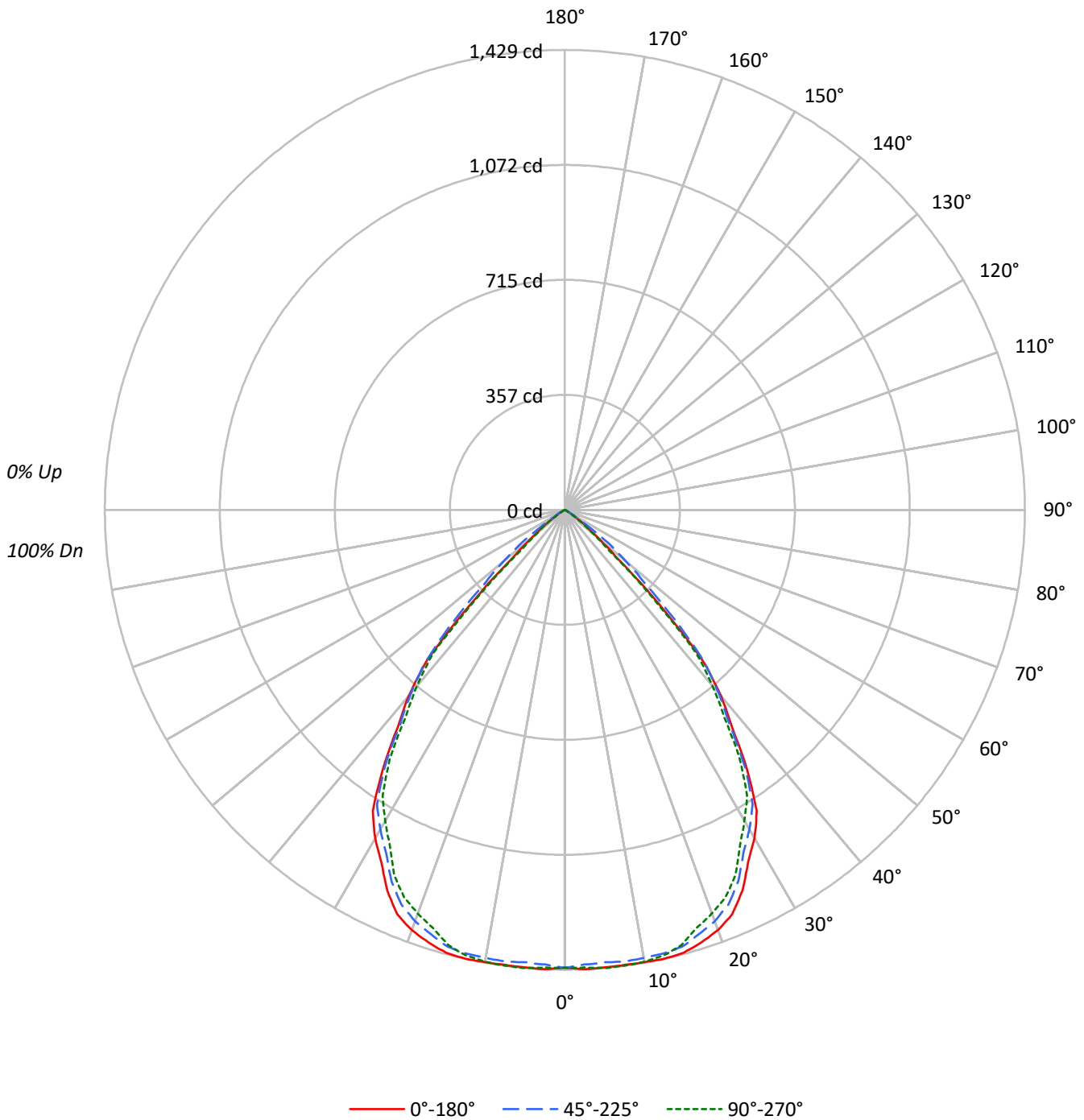
Lumens per Lamp: N/A  
Luminaire Lumens: 2124.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.1  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92	
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76	
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70	
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63	
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58	58	58	58	
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53	
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49	49	49	49	
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45	45	45	45	
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	47	43	42	42	42	42	

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

	0°	45°	90°
0°	22971	22971	22971
5°	23127	22870	23161
10°	23394	23186	23378
15°	23816	23499	23392
20°	23881	23373	22936
25°	23254	22689	22331
30°	21970	21377	20804
35°	19474	19243	18701
40°	15896	15673	15049
45°	9371	11063	8720
50°	3162	6164	2816
55°	1072	2204	1132
60°	103	649	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°	135.9	6.4
10°-20°	397.9	18.7
20°-30°	585.6	27.6
30°-40°	598.3	28.2
40°-50°	344.0	16.2
50°-60°	60.1	2.8
60°-70°	2.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1119.4	52.7
0°-40°	1717.7	80.9
0°-60°	2121.8	99.9
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1427	1424	1411	1431	1429	136
15°	1425	1437	1406	1407	1399	401
25°	1305	1317	1274	1260	1254	597
35°	988	993	976	960	949	610
45°	410	478	484	459	382	321
55°	38	45	78	44	40	43
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1422.7	1422.7	1422.7	1422.7	1422.7
2.5°	1428.6	1425.3	1414.2	1426.9	1423.5
5°	1426.9	1423.8	1411.1	1431.1	1429.0
7.5°	1426.1	1423.6	1415.1	1432.5	1428.4
10°	1426.9	1426.9	1414.2	1430.0	1425.9
12.5°	1428.6	1432.8	1411.7	1424.0	1418.3
15°	1424.8	1437.2	1405.8	1406.7	1399.4
17.5°	1409.4	1426.1	1383.1	1372.9	1362.0
20°	1389.9	1407.5	1360.3	1344.2	1334.9
22.5°	1360.3	1377.0	1327.3	1313.7	1303.6
25°	1305.3	1316.7	1273.6	1259.7	1253.5
27.5°	1233.4	1239.1	1201.6	1187.2	1176.9
30°	1178.4	1178.4	1146.6	1130.4	1115.9
32.5°	1109.8	1106.5	1085.7	1067.0	1053.3
35°	988.0	993.1	976.3	960.2	948.8
37.5°	853.2	858.2	840.9	822.6	814.7
40°	754.2	758.3	743.6	724.3	714.0
42.5°	632.3	654.7	641.2	620.2	606.5
45°	410.4	477.6	484.5	459.4	381.9
47.5°	213.9	284.2	335.9	256.6	179.8
50°	125.9	171.4	245.4	140.0	112.1
52.5°	81.0	100.9	172.6	89.6	75.7
55°	38.1	45.3	78.3	44.3	40.2
57.5°	14.2	21.2	35.3	21.4	15.4
60°	3.2	9.4	20.1	6.2	1.1
62.5°	0.6	2.7	11.6	1.2	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	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)