

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: P559649

Luminaire Tested: **DL2-BB-M-0U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559649  
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-935-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

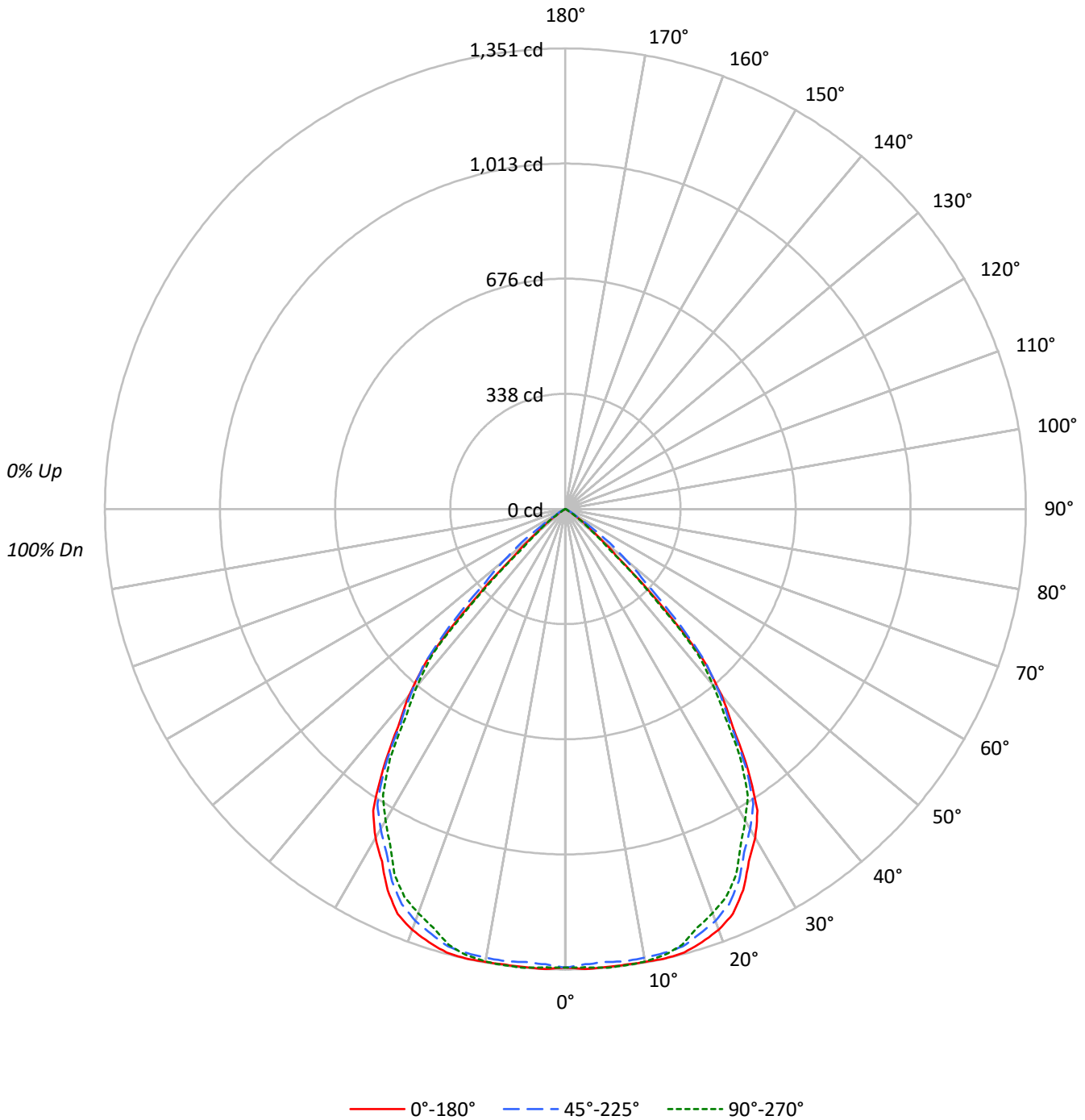
Lumens per Lamp: N/A  
Luminaire Lumens: 2008.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	21716	21716	21716
5°	21864	21621	21896
10°	22117	21920	22100
15°	22516	22215	22114
20°	22577	22096	21684
25°	21984	21449	21111
30°	20769	20210	19669
35°	18410	18193	17680
40°	15028	14817	14227
45°	8859	10458	8243
50°	2989	5827	2663
55°	1013	2083	1070
60°	97	614	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°	128.5	6.4
10°-20°	376.2	18.7
20°-30°	553.6	27.6
30°-40°	565.6	28.2
40°-50°	325.2	16.2
50°-60°	56.9	2.8
60°-70°	2.1	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°	1058.3	52.7
0°-40°	1623.9	80.9
0°-60°	2005.9	99.9
0°-90°	2008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1349	1346	1334	1353	1351	129
15°	1347	1359	1329	1330	1323	379
25°	1234	1245	1204	1191	1185	564
35°	934	939	923	908	897	576
45°	388	452	458	434	361	303
55°	36	43	74	42	38	41
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°	1345.0	1345.0	1345.0	1345.0	1345.0
2.5°	1350.6	1347.5	1337.0	1348.9	1345.8
5°	1349.0	1346.1	1334.0	1353.0	1351.0
7.5°	1348.2	1345.9	1337.8	1354.3	1350.4
10°	1349.0	1349.0	1337.0	1351.9	1348.0
12.5°	1350.6	1354.5	1334.6	1346.3	1340.8
15°	1347.0	1358.7	1329.0	1329.8	1323.0
17.5°	1332.4	1348.2	1307.6	1298.0	1287.6
20°	1314.0	1330.6	1286.0	1270.8	1262.0
22.5°	1286.0	1301.8	1254.8	1242.0	1232.4
25°	1234.0	1244.8	1204.0	1190.9	1185.0
27.5°	1166.0	1171.5	1136.0	1122.4	1112.6
30°	1114.0	1114.0	1084.0	1068.7	1055.0
32.5°	1049.2	1046.1	1026.4	1008.7	995.8
35°	934.0	938.9	923.0	907.8	897.0
37.5°	806.6	811.3	795.0	777.6	770.2
40°	713.0	716.9	703.0	684.8	675.0
42.5°	597.8	618.9	606.2	586.3	573.4
45°	388.0	451.6	458.0	434.3	361.0
47.5°	202.2	268.7	317.6	242.6	170.0
50°	119.0	162.0	232.0	132.4	106.0
52.5°	76.6	95.4	163.2	84.7	71.6
55°	36.0	42.8	74.0	41.9	38.0
57.5°	13.4	20.0	33.4	20.3	14.6
60°	3.0	8.9	19.0	5.9	1.0
62.5°	0.6	2.6	11.0	1.2	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	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)